PR-SAXON 76(4)A.

SAXON COAL LTD

1976 EXPLORATION REPORT

CONFIDENTIAL

APPENDIX VIII

[redacted] QUALITY DATA

APPENDIX IX

WASHABILITY TESTS.

627

PR SAXON 76(4)A

~~CONFIDENTIAL~~

APPENDIX VIII

COAL QUALITY DATA

COAL [illegible] BRANCH
ASSESSMENT REPORT

00 627

DENISON COAL LIMITED

PROJECT:SAXON AREA:SOUTH
DATE SAMPLED: AUG76 DATE ANALYSED: SEP76
DRILL HOLE #:7601 SEAM: 1
LAB COMPOSITE #: 76-9008

COMPOSITE DESCRIPTION

SAMPLE INTERVAL	:	
DIP	:	0
TRUE THICKNESS	:	4.20
COAL/COAL+ROCK RATIO	:	4.02/ 4.20
DRILL CORE RECOVERY	:	77.30%

SIMULATED PRODUCT

SIZE	3/8 X 28	28 X 100	100 X 0
CUTPOINT	SP.G. 1.6	SP.G. 1.8	90 SEC.
CONTRIBUTION	47.1	21.0	3.8

	AIR DRIED	DRY BASIS	D.A.F.
YIELD	71.90		
MOISTURE	.70		
ASH	8.40	8.46	
VOLATILE	21.00	21.15	23.10
F.C.	69.90	70.39	76.90
SULPHUR	.46		
PHOSPHORUS	.004		
F.S.I.	7.0		
SP.GR. (-60 MESH)	1.37		
HARDGROVE	86.70		

HEAD ANALYSIS - COMPOSITE RAW COAL

	AIR DRIED	DRY BASIS	D.A.F.
MOISTURE	1.50		
ASH	22.10	22.44	
VOLATILE	19.30	19.59	25.26
F.C.	57.10	57.97	74.74
F.S.I.	5.00		
SULPHUR	.68		
SP.GR.	1.41		

DRILL HOLE #:7601 SEAM: 1

FLOAT SINK ANALYSES

SIZE
3/8 X 28

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	51.30	6.20	51.30	6.20	7.50	7.50
1.50	17.20	16.00	68.50	8.66	4.00	6.50
1.60	5.30	23.50	73.80	9.73	1.00	6.50
1.80	4.90	36.60	78.70	11.40	1.00	5.50
2.60	21.30	74.40	100.00	24.82	0.	4.00

SIZE
28 X 100

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	62.40	5.20	62.40	5.20	8.00	8.00
1.50	9.20	11.00	71.60	5.95	4.50	8.00
1.60	5.40	15.90	77.00	6.64	1.50	7.50
1.80	6.10	24.40	83.10	7.95	1.00	7.00
2.60	16.90	62.90	100.00	17.23	0.	6.00

FROTH FLOATATION

SIZE
100 X 0

TIME.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
45.	12.90	11.20	12.90	11.20	7.50	7.50
90.	12.50	13.00	28.40	11.99	7.00	7.50
135.	6.80	16.30	35.20	12.82	6.00	7.50
180.	28.40	18.50	63.60	15.36	5.00	7.00
****	36.40	24.60	100.00	18.72	2.00	6.50

DENISON COAL LIMITED

DRILL HOLE #:7601 SEAM: 1

1.5 FLOAT/SINK ANALYSIS OF SEAM COMPONENTS

COMPONENT LAB NO. 76-9008

			AIR DRIED BASIS				
	WT%	ASH%	MOIST	VOL.	F.C%	S.	F.S.I.
1.5 FLOAT	67.90	9.00	.40	21.80	0.	.46	8.00
1.5 SINK	32.10	50.10					
TOTAL	100.00	22.20					
DRY BASIS		9.04		21.89	0.		
D.A.F. BASIS		-		24.06	0.		

COAL ANALYSIS PREPARED BY
WARNOCK HERSEY PROFESSIONAL SERVICES LTD.
SIGNED:

DENISON COAL LIMITED

PROJECT:SAXON AREA:SOUTH
DATE SAMPLED: AUG76 DATE ANALYSED: SEP76
DRILL HOLE #:7601 SEAM: 2
LAB COMPOSITE #: 76-9009-11

COMPOSITE DESCRIPTION

SAMPLE INTERVAL	:	
DIP	:	0
TRUE THICKNESS	:	6.47
COAL/COAL+ROCK RATIO	:	5.40/ 6.47
DRILL CORE RECOVERY	:	1.00%

SIMULATED PRODUCT

SIZE	3/8 X 28	28 X 100	100 X 0
CUTPOINT	SP.G. 1.6	SP.G. 1.8	90 SEC.
CONTRIBUTION	42.6	18.5	7.2

	AIR DRIED	DRY BASIS	D.A.F.
YIELD	68.30		
MOISTURE	.80		
ASH	8.20	8.27	
VOLATILE	23.00	23.19	25.27
F.C.	68.00	68.55	74.73
SULPHUR	.52		
PHOSPHORUS	.006		
F.S.I.	7.5		
SP.GR. (-60 MESH)	1.35		
HARDGROVE	96.20		

HEAD ANALYSIS - COMPOSITE RAW COAL

	AIR DRIED	DRY BASIS	D.A.F.
MOISTURE	1.10		
ASH	29.80	30.32	
VOLATILE	18.20	18.51	26.57
F.C.	50.30	51.17	73.43
F.S.I.	4.50		
SULPHUR	.42		
SP.GR.	1.46		

DRILL HOLE #:7601 SEAM: 2

FLOAT SINK ANALYSES

SIZE
3/8 X 28

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	55.60	4.90	55.60	4.90	7.50	7.50
1.50	7.60	14.70	63.20	6.08	3.00	7.00
1.60	1.60	19.40	64.80	6.41	1.00	6.50
1.80	1.60	27.20	66.40	6.91	1.00	6.50
2.60	33.60	87.20	100.00	33.89	0.	4.00

SIZE
28 X 100

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	65.00	4.20	65.00	4.20	7.50	7.50
1.50	4.20	8.80	69.20	4.48	4.00	7.50
1.60	4.50	13.90	73.70	5.05	1.00	7.00
1.80	4.20	19.90	77.90	5.85	1.00	6.50
2.60	22.10	82.20	100.00	22.73	0.	5.50

FROTH FLOATATION

SIZE
100 X 0

TIME.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
45.	28.30	11.00	28.30	11.00	6.50	6.50
90.	15.30	14.70	43.60	12.30	6.00	6.00
135.	22.60	19.00	66.20	14.59	3.50	6.00
180.	17.70	40.80	83.90	20.12	2.50	5.50
****	16.10	66.30	100.00	27.55	1.00	5.00

DRILL HOLE #:7601 SEAM: 2

1.5 FLOAT/SINK ANALYSIS OF SEAM COMPONENTS

COMPONENT LAB NO. 76-9009

	WT%	ASH%	AIR DRIED BASIS MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	89.20	6.10	.60	23.50	0.	.54	8.00
1.5 SINK	10.80	32.30					
TOTAL	100.00	8.90					
DRY BASIS		6.14		23.64	0.		
D.A.F. BASIS		-		25.19	0.		

COMPONENT LAB NO. 76-9010

	WT%	ASH%	AIR DRIED BASIS MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	.90	6.60	.70	24.80	0.	.56	8.00
1.5 SINK	99.10	87.40					
TOTAL	100.00	86.70					
DRY BASIS		6.65		24.97	0.		
D.A.F. BASIS		-		26.75	0.		

COMPONENT LAB NO. 76-9011

	WT%	ASH%	AIR DRIED BASIS MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	86.60	6.30	1.00	22.90	0.	.40	7.50
1.5 SINK	13.40	40.40					
TOTAL	100.00	10.90					
DRY BASIS		6.36		23.13	0.		
D.A.F. BASIS		-		24.70	0.		

COAL ANALYSIS PREPARED BY
WARNOCK HERSEY PROFESSIONAL SERVICES LTD.
SIGNED:

DENISON COAL LIMITED

PROJECT:SAXON AREA:SOUTH
DATE SAMPLED: AUG76 DATE ANALYSED: SEP76
DRILL HOLE #:7601 SEAM: 3A
LAB COMPOSITE #: 76-9012

COMPOSITE DESCRIPTION

SAMPLE INTERVAL	:	
DIP	:	0
TRUE THICKNESS	:	1.65
COAL/COAL+ROCK RATIO	:	1.33/ 1.65
DRILL CORE RECOVERY	:	100.00%

SIMULATED PRODUCT

SIZE	3/8 X 28	28 X 100	100 X 0
CUTPOINT	SP.G. 1.6	SP.G. 1.8	90 SEC.
CONTRIBUTION	29.3	18.7	6.1

	AIR DRIED	DRY BASIS	D.A.F.
YIELD	54.10		
MOISTURE	.90		
ASH	9.20	9.28	
VOLATILE	23.60	23.81	26.25
F.C.	66.30	66.90	73.75
SULPHUR	.37		
PHOSPHORUS	.006		
F.S.I.	7.5		
SP.GR. (-60 MESH)	1.41		
HARDGROVE	0.		

HEAD ANALYSIS - COMPOSITE RAW COAL

	AIR DRIED	DRY BASIS	D.A.F.
MOISTURE	1.20		
ASH	34.90	35.32	
VOLATILE	18.60	18.83	29.11
F.C.	45.30	45.85	70.89
F.S.I.	5.00		
SULPHUR	.69		
SP.GR.	1.52		

DRILL HOLE #:7601 SEAM: 3A

FLOAT SINK ANALYSES

SIZE
3/8 X 28

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	31.80	5.80	31.80	5.80	8.00	8.00
1.50	12.60	15.70	44.40	8.61	6.50	7.50
1.60	2.80	22.40	47.20	9.43	4.50	7.50
1.80	4.30	36.80	51.50	11.71	1.00	7.00
2.60	48.50	71.00	100.00	40.47	0.	4.00

SIZE
28 X 100

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	0.	0.	0.	0.	0.	0.
1.50	0.	0.	0.	0.	0.	0.
1.60	0.	0.	0.	0.	0.	0.
1.80	70.20	8.40	70.20	8.40	8.50	8.50
2.60	29.80	64.10	100.00	25.00	0.	6.00

FROTH FLOATATION

SIZE
100 X 0

TIME.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
45.	0.	0.	0.	0.	0.	0.
90.	54.00	19.60	54.00	19.60	7.00	7.00
135.	0.	0.	54.00	19.60	0.	0.
180.	0.	0.	54.00	19.60	0.	0.
****	46.00	25.30	100.00	22.22	4.50	6.00

DENISON COAL LIMITED

DRILL HOLE #:7601 SEAM: 3A

1.5 FLOAT/SINK ANALYSIS OF SEAM COMPONENTS

COMPONENT LAB NO. 76-9012

			AIR DRIED BASIS				
	WT%	ASH%	MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	45.10	8.40	.60	23.90	0.	.67	8.00
1.5 SINK	54.90	56.80					
TOTAL	100.00	35.00					
DRY BASIS		8.45		24.04	0.		
D.A.F. BASIS		-		26.26	0.		

COAL ANALYSIS PREPARED BY
WARNOCK HERSEY PROFESSIONAL SERVICES LTD.
SIGNED:

DENISON COAL LIMITED

PROJECT:SAXON AREA:SOUTH
DATE SAMPLED: AUG76 DATE ANALYSED: SEP76
DRILL HOLE #:7601 SEAM: 4
LAB COMPOSITE #: 76-9013-16

COMPOSITE DESCRIPTION

SAMPLE INTERVAL	:	
DIP	:	0
TRUE THICKNESS	:	9.36
COAL/COAL TROCK RATIO	:	8.71/ 9.36
DRILL CORE RECOVERY	:	100.00%

SIMULATED PRODUCT

SIZE	3/8 X 28	28 X 100	100 X 0
CUTPOINT	SP.G. 1.6	SP.G. 1.8	90 SEC.
CONTRIBUTION	40.8	19.8	5.0

	AIR DRIED	DRY BASIS	D.A.F.
YIELD	65.60		
MOISTURE	.80		
ASH	7.60	7.66	
VOLATILE	24.60	24.80	26.86
F.C.	67.00	67.54	73.14
SULPHUR	.64		
PHOSPHORUS	.012		
F.S.I.	7.5		
SP.GR. (-60 MESH)	1.32		
HARDGROVE	94.10		

HEAD ANALYSIS - COMPOSITE RAW COAL

	AIR DRIED	DRY BASIS	D.A.F.
MOISTURE	1.00		
ASH	24.40	24.65	
VOLATILE	22.10	22.32	29.62
F.C.	52.50	53.03	70.38
F.S.I.	5.00		
SULPHUR	.34		
SP.GR.	1.43		

DRILL HOLE #:7601 SEAM: 4

FLOAT SINK ANALYSES

SIZE
3/8 X 28

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	54.30	4.40	54.30	4.40	8.00	8.00
1.50	6.30	16.00	60.60	5.61	2.00	8.00
1.60	3.00	23.40	63.60	6.45	1.00	7.50
1.80	7.70	32.00	71.30	9.21	1.00	7.00
2.60	28.70	72.40	100.00	27.34	0.	4.50

SIZE
28 X 100

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	0.	0.	0.	0.	0.	0.
1.50	0.	0.	0.	0.	0.	0.
1.60	0.	0.	0.	0.	0.	0.
1.80	75.80	7.10	75.80	7.10	7.50	7.50
2.60	24.20	56.80	100.00	19.13	3.00	6.50

FROTH FLOATATION

SIZE
100 X 0

TIME.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
45.	0.	0.	0.	0.	0.	0.
90.	51.20	12.20	51.20	12.20	6.00	6.00
135.	0.	0.	51.20	12.20	0.	0.
180.	0.	0.	51.20	12.20	0.	0.
****	48.80	24.20	100.00	18.06	5.00	5.50

DRILL HOLE #:7601 SEAM: 4

1.5 FLOAT/SINK ANALYSIS OF SEAM COMPONENTS

COMPONENT LAB NO. 76-9013

	WT%	ASH%	AIR DRIED BASIS MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	39.50	7.10	.60	25.10	0.	.64	8.50
1.5 SINK	60.50	65.30					
TOTAL	100.00	42.30					
DRY BASIS		7.14		25.25	0.		
D.A.F. BASIS		-		27.19	0.		

COMPONENT LAB NO. 76-9014

	WT%	ASH%	AIR DRIED BASIS MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	68.90	6.50	.60	24.00	0.	.30	7.50
1.5 SINK	31.10	38.50					
TOTAL	100.00	16.50					
DRY BASIS		6.54		24.14	0.		
D.A.F. BASIS		-		25.83	0.		

COMPONENT LAB NO. 76-9015

	WT%	ASH%	AIR DRIED BASIS MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	79.90	4.50	.60	25.20	0.	.47	8.00
1.5 SINK	20.10	41.90					
TOTAL	100.00	12.00					
DRY BASIS		4.53		25.35	0.		
D.A.F. BASIS		-		26.55	0.		

COMPONENT LAB NO. 76-9016

	WT%	ASH%	AIR DRIED BASIS MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	46.30	5.10	.60	24.20	0.	.57	8.50
1.5 SINK	53.70	70.40					
TOTAL	100.00	40.20					
DRY BASIS		5.13		24.35	0.		
D.A.F. BASIS		-		25.66	0.		

COAL ANALYSIS PREPARED BY
WARNOCK HERSEY PROFESSIONAL SERVICES LTD.
SIGNED:

DENISON COAL LIMITED

PROJECT:SAXON AREA:SOUTH
DATE SAMPLED: AUG76 DATE ANALYSED: SEP76
DRILL HOLE #:7601 SEAM: 5
LAB COMPOSITE #: 76-9017

COMPOSITE DESCRIPTION

SAMPLE INTERVAL	:	
DIP	:	0
TRUE THICKNESS	:	1.40
COAL/COAL+ROCK RATIO	:	1.07/ 1.40
DRILL CORE RECOVERY	:	100.00%

SIMULATED PRODUCT

SIZE	3/8 X 28	28 X 100	100 X 0
CUTPOINT	SP.G. 1.6	SP.G. 1.8	90 SEC.
CONTRIBUTION	35.9	18.7	5.3

	AIR DRIED	DRY BASIS	D.A.F.
YIELD	59.90		
MOISTURE	.90		
ASH	8.20	8.27	
VOLATILE	25.00	25.23	27.50
F.C.	65.90	66.50	72.50
SULPHUR	.44		
PHOSPHORUS	.010		
F.S.I.	6.5		
SP/GR. (-60 MESH)	1.36		
HARDGROVE	0.		

HEAD ANALYSIS - COMPOSITE RAW COAL

	AIR DRIED	DRY BASIS	D.A.F.
MOISTURE	1.40		
ASH	29.50	29.92	
VOLATILE	20.00	20.28	28.94
F.C.	49.10	49.80	71.06
F.S.I.	4.50		
SULPHUR	.66		
SP.GR.	1.47		

DRILL HOLE #:7601 SEAM: 5

FLOAT SINK ANALYSES

SIZE
3/8 X 28

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	40.50	5.60	40.50	5.60	7.50	7.50
1.50	11.30	14.60	51.80	7.56	5.00	6.50
1.60	4.50	21.70	56.30	8.69	2.00	6.00
1.80	6.00	39.50	62.30	11.66	1.00	5.50
2.60	37.70	72.30	100.00	34.52	0.	4.00

SIZE
28 X 100

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	0.	0.	0.	0.	0.	0.
1.50	0.	0.	0.	0.	0.	0.
1.60	0.	0.	0.	0.	0.	0.
1.80	70.20	8.00	70.20	8.00	7.00	7.00
2.60	29.80	54.20	100.00	21.77	2.50	5.00

FROTH FLOATATION

SIZE
100 X 0

TIME.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
45.	0.	0.	0.	0.	0.	0.
90.	56.20	16.40	56.20	16.40	6.00	6.00
135.	0.	0.	56.20	16.40	0.	0.
180.	0.	0.	56.20	16.40	0.	0.
****	43.80	35.70	100.00	24.85	4.50	5.00

DENISON COAL LIMITED

DRILL HOLE #:7601 SEAM: S

1.5 FLOAT/SINK ANALYSIS OF SEAM COMPONENTS

COMPONENT LAB NO. 76-9017

			AIR DRIED BASIS				
	WT%	ASH%	MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	54.20	7.80	1.00	24.90	0.	.72	7.60
1.5 SINK	45.80	57.00					
TOTAL	100.00	30.30					
DRY BASIS		7.88		25.15	0.		
D.A.F. BASIS		-		27.30	0.		

COAL ANALYSIS PREPARED BY
WARNOCK HERSEY PROFESSIONAL SERVICES LTD.
SIGNED:

DENISON COAL LIMITED

PROJECT:SAXON AREA:SOUTH
DATE SAMPLED: AUG76 DATE ANALYSED: SEP76
DRILL HOLE #:7601 SEAM: 9
LAB COMPOSITE #: 76-9018

COMPOSITE DESCRIPTION

SAMPLE INTERVAL	:	
DIP	:	0
TRUE THICKNESS	:	1.34
COAL/COAL+ROCK RATIO	:	1.34/ 1.34
DRILL CORE RECOVERY	:	******%

SIMULATED PRODUCT

SIZE	3/8 X 28	28 X 100	100 X 0
CUTPOINT	SP.G. 1.6	SP.G. 1.8	90 SEC.
CONTRIBUTION	50.8	30.6	7.0

	AIR DRIED	DRY BASIS	D.A.F.
YIELD	88.40		
MOISTURE	1.10		
ASH	6.30	6.37	
VOLATILE	27.60	27.91	29.81
F.C.	65.00	65.72	70.19
SULPHUR	.67		
PHOSPHORUS	.015		
F.S.I.	7.5		
SP.GR. (-60 MESH)	1.28		
HARDGROVE	0.		

HEAD ANALYSIS - COMPOSITE RAW COAL

	AIR DRIED	DRY BASIS	D.A.F.
MOISTURE	1.50		
ASH	9.30	9.44	
VOLATILE	26.00	26.40	29.15
F.C.	63.20	64.16	70.85
F.S.I.	7.50		
SULPHUR	.73		
SP.GR.	1.29		

DRILL HOLE #:7601 SEAM: 8

FLOAT SINK ANALYSES

SIZE
3/8 X 28

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	78.20	3.70	78.20	3.70	8.00	8.00
1.50	10.20	12.90	88.40	4.76	5.00	7.50
1.60	4.00	17.50	92.40	5.31	3.50	7.00
1.80	1.30	32.60	93.70	5.69	1.00	7.00
2.60	6.30	72.70	100.00	9.91	0.	6.50

SIZE
28 X 100

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	0.	0.	0.	0.	0.	0.
1.50	0.	0.	0.	0.	0.	0.
1.60	0.	0.	0.	0.	0.	0.
1.80	91.50	5.20	91.50	5.20	8.50	8.50
2.60	8.50	38.10	100.00	8.00	3.00	8.00

FROTH FLOATATION

SIZE
100 X 0

TIME.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
45.	0.	0.	0.	0.	0.	0.
90.	60.20	5.60	60.20	5.60	8.50	8.50
135.	0.	0.	60.20	5.60	0.	0.
180.	0.	0.	60.20	5.60	0.	0.
****	39.80	10.20	100.00	7.43	8.00	8.00

DENISON COAL LIMITED

DRILL HOLE #:7601 SEAM: 8

1.5 FLOAT/SINK ANALYSIS OF SEAM COMPONENTS

COMPONENT LAB NO. 76-9018

			AIR DRIED BASIS				
	WT%	ASH%	MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	87.00	5.90	.90	26.60	0.	.74	8.50
1.5 SINK	13.00	38.90					
TOTAL	100.00	10.20					
DRY BASIS		5.95		26.84	0.		
D.A.F. BASIS		-		28.54	0.		

COAL ANALYSIS PREPARED BY
WARNOCK HERSEY PROFESSIONAL SERVICES LTD.
SIGNED:

DENISON COAL LIMITED

PROJECT:SAXON AREA:SOUTH
DATE SAMPLED: AUG76 DATE ANALYSED: SEP76
DRILL HOLE #:760? SEAM: 4
LAB COMPOSITE #: 76-9019-22

COMPOSITE DESCRIPTION

SAMPLE INTERVAL	:	
DIP	:	0
TRUE THICKNESS	:	11.86
COAL/COAL+ROCK RATIO	:	9.37/11.86
DRILL CORE RECOVERY	:	85.75%

SIMULATED PRODUCT

SIZE	3/8 X 28	28 X 100	100 X 0
CUTPOINT	SP.G. 1.6	SP.G. 1.8	90 SEC.
CONTRIBUTION	39.7	17.4	5.3

	AIR DRIED	DRY BASIS	D.A.F.
YIELD	62.40		
MOISTURE	.90		
ASH	6.90	6.96	
VOLATILE	25.60	25.83	27.77
F.C.	66.60	67.20	72.23
SULPHUR	.47		
PHOSPHORUS	.005		
F.S.I.	6.5		
SP.GR. (-60 MESH)	1.30		
HARDGROVE	89.20		

HEAD ANALYSIS - COMPOSITE RAW COAL

	AIR DRIED	DRY BASIS	D.A.F.
MOISTURE	1.60		
ASH	30.50	31.00	
VOLATILE	20.00	20.33	29.46
F.C.	47.90	48.68	70.54
F.S.I.	4.00		
SULPHUR	.43		
SP.GR.	1.50		

DRILL HOLE #:7604 SEAM: 4

FLOAT SINK ANALYSES

SIZE
3/8 X 28

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	50.30	4.00	50.30	4.00	6.50	6.50
1.50	5.90	13.90	56.20	5.04	2.00	6.50
1.60	3.10	21.40	59.30	5.89	1.00	6.00
1.80	6.30	34.70	65.60	8.66	1.00	5.50
2.60	34.40	79.40	100.00	33.00	0.	3.00

SIZE
28 X 100

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	0.	0.	0.	0.	0.	0.
1.50	0.	0.	0.	0.	0.	0.
1.60	0.	0.	0.	0.	0.	0.
1.80	73.10	6.10	73.10	6.10	8.00	8.00
2.60	26.70	68.90	99.80	22.90	2.00	6.00

FROTH FLOATATION

SIZE
100 X 0

TIME.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
45.	0.	0.	0.	0.	0.	0.
90.	56.70	13.50	56.70	13.50	6.50	6.50
135.	0.	0.	56.70	13.50	0.	0.
180.	0.	0.	56.70	13.50	0.	0.
****	43.30	41.20	100.00	25.49	3.00	5.00

DRILL HOLE #:7604 SEAM: 4

1.5 FLOAT/SINK ANALYSIS OF SEAM COMPONENTS

COMPONENT LAB NO. 76-9019

AIR DRIED BASIS

	WT%	ASH%	MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	40.40	7.80	.50	25.50	0.	.46	8.00
1.5 SINK	59.60	57.10					
TOTAL	100.00	37.20					
DRY BASIS		7.84		25.63	0.		
D.A.F. BASIS		-		27.81	0.		

COMPONENT LAB NO. 76-9020

AIR DRIED BASIS

	WT%	ASH%	MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	88.60	6.20	.60	24.40	0.	.30	7.50
1.5 SINK	11.40	31.00					
TOTAL	100.00	9.10					
DRY BASIS		6.24		24.55	0.		
D.A.F. BASIS		-		26.18	0.		

COMPONENT LAB NO. 76-9021

AIR DRIED BASIS

	WT%	ASH%	MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	62.80	5.00	.40	25.40	0.	.35	8.00
1.5 SINK	37.20	66.50					
TOTAL	100.00	27.90					
DRY BASIS		5.02		25.50	0.		
D.A.F. BASIS		-		26.85	0.		

COMPONENT LAB NO. 76-9022

AIR DRIED BASIS

	WT%	ASH%	MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	31.60	5.60	.40	24.00	0.	.59	8.00
1.5 SINK	68.40	75.40					
TOTAL	100.00	53.30					
DRY BASIS		5.62		24.10	0.		
D.A.F. BASIS		-		25.53	0.		

COAL ANALYSIS PREPARED BY
WARNOCK HERSEY PROFESSIONAL SERVICES LTD.
SIGNED:

DENISON COAL LIMITED

PROJECT:BAXON AREA:SOUTH
DATE SAMPLED: AUG76 DATE ANALYSED: SEP76
DRILL HOLE #:7603 SEAM: 3.0
LAB COMPOSITE #: 76-9023

COMPOSITE DESCRIPTION

SAMPLE INTERVAL	:	
DIP	:	0
TRUE THICKNESS	:	1.72
COAL/COAL ROCK RATIO	:	1.68/ 1.72
DRILL CORE RECOVERY	:	9.88%

SIMULATED PRODUCT

SIZE	3/8 X 28	28 X 100	100 X 0
CUTPOINT	SP.G. 1.6	SP.G. 1.8	90 SEC.
CONTRIBUTION	52.3	27.6	4.2

	AIR DRIED	DRY BASIS	D.A.F.
YIELD	84.10		
MOISTURE	.70		
ASH	5.90	5.94	
VOLATILE	26.30	26.49	28.16
F.C.	67.10	67.57	71.84
SULPHUR	.64		
PHOSPHORUS	.006		
F.S.I.	6.5		
SP.GR. (-60 MESH)	1.27		
HARDGROVE	108.70		

HEAD ANALYSIS - COMPOSITE RAW COAL

	AIR DRIED	DRY BASIS	D.A.F.
MOISTURE	.80		
ASH	9.10	9.17	
VOLATILE	24.10	24.29	26.75
F.C.	66.00	66.53	73.25
F.S.I.	5.00		
SULPHUR	.66		
SP.GR.	1.28		

DRILL HOLE #:7603 SEAM: 3.0

FLOAT SINK ANALYSES

SIZE
3/8 X 28

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	80.70	4.20	80.70	4.20	7.00	7.00
1.50	8.70	13.10	89.40	5.07	1.50	6.50
1.60	2.00	19.00	91.40	5.37	1.50	6.00
1.80	2.50	36.50	93.90	6.20	1.00	5.00
2.60	6.10	72.00	100.00	10.21	0.	4.00

SIZE
28 X 100

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	0.	0.	0.	0.	0.	0.
1.50	0.	0.	0.	0.	0.	0.
1.60	0.	0.	0.	0.	0.	0.
1.80	88.30	5.10	88.30	5.10	8.50	8.50
2.60	11.70	36.40	100.00	8.76	0.	7.00

FROTH FLOATATION

SIZE
100 X 0

TIME.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
45.	0.	0.	0.	0.	0.	0.
90.	36.10	5.70	36.10	5.70	7.50	7.50
135.	0.	0.	36.10	5.70	0.	0.
180.	0.	0.	36.10	5.70	0.	0.
****	63.90	7.70	100.00	6.98	6.00	6.50

DRILL HOLE #:7603 SEAM: 3.0

1.5 FLOAT/SINK ANALYSIS OF SEAM COMPONENTS

COMPONENT LAB NO. 76-9023

			AIR DRIED BASIS				
	WT%	ASH%	MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	88.70	5.00	.50	24.90	0.	.72	7.50
1.5 SINK	11.30	42.50					
TOTAL	100.00	9.20					
DRY BASIS		5.03		25.03	0.		
D.A.F. BASIS		-		26.35	0.		

COAL ANALYSIS PREPARED BY
WARNOCK HERSEY PROFESSIONAL SERVICES LTD.
SIGNED:

DENISON COAL LIMITED

PROJECT:SAXON AREA:SOUTH
DATE SAMPLED: AUG76 DATE ANALYSED: SEP76
DRILL HOLE #:7603 SEAM: 3.1
LAB COMPOSITE #: 76-9024

COMPOSITE DESCRIPTION

SAMPLE INTERVAL	:	
DIP	:	0
TRUE THICKNESS	:	.96
COAL/COAL+ROCK RATIO	:	.96/ .96
DRILL CORE RECOVERY	:	1.00%

SIMULATED PRODUCT

SIZE	3/8 X 28	28 X 100	100 X 0
CUTPOINT	SP.G. 1.6	SP.G. 1.8	90 SEC.
CONTRIBUTION	46.6	25.3	5.1

	AIR DRIED	DRY BASIS	D.A.F.
YIELD	17.00		
MOISTURE	.80		
ASH	6.50	6.55	
VOLATILE	25.80	26.01	27.83
F.C.	66.90	67.44	72.17
SULPHUR	.71		
PHOSPHORUS	.006		
F.S.I.	7.5		
SP.GR. (-60 MESH)	1.28		
HARDGROVE	0.		

HEAD ANALYSIS - COMPOSITE RAW COAL

	AIR DRIED	DRY BASIS	D.A.F.
MOISTURE	1.00		
ASH	12.80	12.93	
VOLATILE	23.70	23.94	27.49
F.C.	62.50	63.13	72.51
F.S.I.	7.00		
SULPHUR	.84		
SP.GR.	1.31		

DRILL HOLE #:7603 SEAM: 3.1

FLOAT SINK ANALYSES

SIZE
3/8 X 28

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	66.40	4.90	66.40	4.90	8.00	8.00
1.50	11.60	14.00	78.00	6.25	3.50	8.00
1.60	6.40	19.00	84.40	7.22	2.50	7.00
1.80	5.10	30.70	89.50	8.56	1.00	6.50
2.60	10.50	56.80	100.00	13.62	0.	6.00

SIZE
28 X 100

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	0.	0.	0.	0.	0.	0.
1.50	0.	0.	0.	0.	0.	0.
1.60	0.	0.	0.	0.	0.	0.
1.80	78.60	7.20	78.60	7.20	8.00	8.00
2.60	21.40	30.50	100.00	12.19	5.50	7.50

FROTH FLOATATION

SIZE
100 X 0

TIME.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
45.	0.	0.	0.	0.	0.	0.
90.	40.60	9.30	40.60	9.30	8.00	8.00
135.	0.	0.	40.60	9.30	0.	0.
180.	0.	0.	40.60	9.30	0.	0.
****	54.40	13.00	95.00	11.42	6.50	7.00

DENISON COAL LIMITED

DRILL HOLE #:7603 SEAM: 3.1

1.5 FLOAT/SINK ANALYSIS OF SEAM COMPONENTS

COMPONENT LAB NO. 76-9024

			AIR DRIED BASIS				
	WT%	ASH%	MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	73.60	6.30	.50	24.70	0.	.73	8.00
1.5 SINK	26.40	41.90					
TOTAL	100.00	15.70					
DRY BASIS		6.33		24.82	0.		
D.A.F. BASIS		-		26.50	0.		

COAL ANALYSIS PREPARED BY
WARNOCK HERSEY PROFESSIONAL SERVICES LTD.
SIGNED:

DENISON COAL LIMITED

PROJECT:SAXON AREA:SOUTH
DATE SAMPLED: OCT76 DATE ANALYSED: NOV76
DRILL HOLE #:7604 SEAM: 1
LAB COMPOSITE #: 76-1124

COMPOSITE DESCRIPTION

SAMPLE INTERVAL	:	
DIP	:	0
TRUE THICKNESS	:	3.84
COAL/COAL+ROCK RATIO	:	3.83/ 3.84
DRILL CORE RECOVERY	:	78.91%

SIMULATED PRODUCT

SIZE	3/8 X 28	28 X 100	100 X 0
CUTPOINT	SP.G. 1.6	SP.G. 1.8	90 SEC.
CONTRIBUTION	58.6	18.7	5.6

	AIR DRIED	DRY BASIS	D.A.F.
YIELD	82.90		
MOISTURE	.80		
ASH	8.50	8.57	
VOLATILE	22.40	22.58	24.70
F.C.	68.30	68.85	75.30
SULPHUR	.42		
PHOSPHORUS	.002		
F.S.I.	7.5		
SP.GR. (-60 MESH)	1.35		
HARDGROVE	89.20		

HEAD ANALYSIS - COMPOSITE RAW COAL

	AIR DRIED	DRY BASIS	D.A.F.
MOISTURE	1.40		
ASH	18.20	18.46	
VOLATILE	21.80	22.11	27.11
F.C.	58.60	59.43	72.89
F.S.I.	4.50		
SULPHUR	.46		
SP.GR.	1.39		

DRILL HOLE #:7604 SEAM: 1

FLOAT SINK ANALYSES

SIZE
3/8 X 28

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	64.50	6.20	64.50	6.20	6.50	6.50
1.50	12.50	11.20	77.00	7.01	3.00	6.50
1.60	6.40	21.00	83.40	8.09	1.00	6.00
1.80	3.80	32.10	87.20	9.13	1.00	5.50
2.60	12.80	72.30	100.00	17.22	0.	4.00

SIZE
28 X 100

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	59.50	4.90	59.50	4.90	8.50	8.50
1.50	15.30	8.80	74.80	5.70	6.00	8.00
1.60	7.50	15.80	82.30	6.62	2.50	7.50
1.80	4.40	23.40	86.70	7.47	1.00	7.50
2.60	13.30	63.20	100.00	14.88	0.	5.50

FROTH FLOATATION

SIZE
100 X 0

TIME.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
45.	28.80	8.10	28.80	8.10	6.50	6.50
45.	24.60	10.60	53.40	9.25	6.00	6.50
90.	15.60	17.20	69.00	11.05	4.50	6.00
135.	16.20	25.90	85.20	13.87	4.00	5.00
****	14.80	44.60	100.00	18.42	1.50	4.50

DENISON COAL LIMITED

DRILL HOLE #:7604 SEAM: 1

1.5 FLOAT/SINK ANALYSIS OF SEAM COMPONENTS

COMPONENT LAB NO. 76-1124

			AIR DRIED BASIS				
	WT%	ASH%	MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	70.40	7.50	.50	24.20	67.80	.39	7.00
1.5 SINK	29.60	50.60					
TOTAL	100.00	20.30					
DRY BASIS		7.54		24.32	68.14		
D.A.F. BASIS		-		26.30	73.70		

COAL ANALYSIS PREPARED BY
WARNOCK HERSEY PROFESSIONAL SERVICES LTD.
SIGNED:

DENISON COAL LIMITED

PROJECT:SAXON AREA:SOUTH
DATE SAMPLED: OCT76 DATE ANALYSED: NOV76
DRILL HOLE #:7604 SEAM: 2
LAB COMPOSITE #: 76-1125-27

COMPOSITE DESCRIPTION

SAMPLE INTERVAL	:	
DIP	:	0
TRUE THICKNESS	:	7.94
COAL/COAL+ROCK RATIO	:	6.89/ 7.94
DRILL CORE RECOVERY	:	89.80%

SIMULATED PRODUCT

SIZE	3/8 X 28	28 X 100	100 X 0
CUTPOINT	SP.G. 1.6	SP.G. 1.8	90 SEC.
CONTRIBUTION	49.6	15.8	5.8

	AIR DRIED	DRY BASIS	D.A.F.
YIELD	71.20		
MOISTURE	.80		
ASH	6.80	6.85	
VOLATILE	22.50	22.68	24.35
F.C.	69.90	70.46	75.65
SULPHUR	.34		
PHOSPHORUS	.005		
F.S.I.	6.5		
SP.GR. (-60 MESH)	1.29		
HARDGROVE	85.80		

HEAD ANALYSIS - COMPOSITE RAW COAL

	AIR DRIED	DRY BASIS	D.A.F.
MOISTURE	1.80		
ASH	26.30	26.78	
VOLATILE	19.00	19.35	26.43
F.C.	52.90	53.87	73.57
F.S.I.	2.00		
SULPHUR	.33		
SP.GR.	1.46		

DENISON COAL LIMITED

DRILL HOLE #:7604 SEAM: 2

FLOAT SINK ANALYSES

SIZE
3/8 X 28

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	64.30	5.90	64.30	5.90	7.00	7.00
1.50	3.50	16.20	67.80	6.43	3.50	7.00
1.60	2.40	19.40	70.20	6.88	1.00	6.50
1.80	1.80	27.60	72.00	7.39	1.00	5.00
2.60	28.00	87.00	100.00	29.68	0.	2.00

SIZE
28 X 100

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	62.60	4.40	62.60	4.40	7.50	7.50
1.50	6.40	9.50	69.00	4.87	3.00	7.50
1.60	4.60	12.10	73.60	5.32	2.00	6.50
1.80	2.30	21.20	75.90	5.81	1.50	6.00
2.60	24.10	76.60	100.00	22.87	0.	3.00

FROTH FLOATATION

SIZE
100 X 0

TIME.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
45.	49.40	9.50	49.40	9.50	4.50	4.50
45.	10.80	25.00	59.20	12.33	3.00	4.50
90.	8.60	38.40	67.80	15.63	2.50	4.00
135.	11.80	54.30	79.60	21.37	1.00	3.50
****	20.40	61.80	100.00	29.61	1.00	2.00

DRILL HOLE #:7604 SEAM: 2

1.5 FLOAT/SINK ANALYSIS OF SEAM COMPONENTS

COMPONENT LAB NO. 76-1125

	WT%	ASH%	AIR DRIED BASIS MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	82.00	4.40	.90	24.40	70.30	.45	8.00
1.5 SINK	18.00	46.70					
TOTAL	100.00	12.00					

DRY BASIS	4.44	24.62	70.94
D.A.F. BASIS	-	25.77	74.23

COMPONENT LAB NO. 76-1126

	WT%	ASH%	AIR DRIED BASIS MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	1.00	8.30	1.10	24.60	66.00	.48	5.50
1.5 SINK	99.00	85.20					
TOTAL	100.00	84.40					

DRY BASIS	8.39	24.87	66.73
D.A.F. BASIS	-	27.19	72.85

COMPONENT LAB NO. 76-1127

	WT%	ASH%	AIR DRIED BASIS MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	87.50	6.50	.80	23.90	68.80	.31	7.00
1.5 SINK	12.50	32.60					
TOTAL	100.00	9.80					

DRY BASIS	6.55	24.09	69.35
D.A.F. BASIS	-	25.78	74.22

COAL ANALYSIS PREPARED BY
WARNOCK HERSEY PROFESSIONAL SERVICES LTD.
SIGNED:

DENISON COAL LIMITED

PROJECT:SAXON AREA:SOUTH
DATE SAMPLED: OCT76 DATE ANALYSED: NOV76
DRILL HOLE #:7606 SEAM: 1
LAB COMPOSITE #: 76-1128

COMPOSITE DESCRIPTION

SAMPLE INTERVAL	:	
DIP	:	0
TRUE THICKNESS	:	3.76
COAL/COAL+ROCK RATIO	:	3.58/ 3.76
DRILL CORE RECOVERY	:	91.17%

SIMULATED PRODUCT

SIZE	3/8 X 28	28 X 100	100 X 0
CUTPOINT	SP.G. 1.6	SP.G. 1.8	90 SEC.
CONTRIBUTION	52.1	19.6	6.1

	AIR DRIED	DRY BASIS	D.A.F.
YIELD	77.80		
MOISTURE	1.00		
ASH	9.40	9.49	
VOLATILE	21.10	21.31	23.55
F.C.	68.50	69.19	76.45
SULPHUR	.40		
PHOSPHORUS	.008		
F.S.I.	6.0		
SP.GR. (-60 MESH)	1.45		
HARDGROVE	85.80		

HEAD ANALYSIS - COMPOSITE RAW COAL

	AIR DRIED	DRY BASIS	D.A.F.
MOISTURE	.80		
ASH	22.20	22.38	
VOLATILE	19.00	19.15	24.68
F.C.	58.00	58.47	75.32
F.S.I.	1.50		
SULPHUR	.45		
SP.GR.	1.36		

DRILL HOLE #:7606 SEAM: 1

FLOAT SINK ANALYSES

SIZE
3/8 X 28

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	60.40	7.10	60.40	7.10	6.00	6.00
1.50	9.80	15.80	70.20	8.31	1.00	6.00
1.60	7.20	21.60	77.40	9.55	1.00	5.50
1.80	3.70	30.70	81.10	10.52	1.00	4.00
2.60	18.90	78.40	100.00	23.35	0.	1.00

SIZE
28 X 100

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	57.70	5.60	57.70	5.60	7.00	7.00
1.50	10.50	10.60	68.20	6.37	2.00	7.00
1.60	9.40	15.00	77.60	7.42	1.50	6.50
1.80	3.80	22.00	81.40	8.10	1.00	5.50
2.60	18.60	64.80	100.00	18.64	0.	2.50

FROTH FLOATATION

SIZE
100 X 0

TIME.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
45.	27.20	10.50	48.40	9.50	5.50	5.50
45.	25.20	13.10	59.20	12.33	4.50	5.50
90.	18.50	21.30	67.80	15.63	3.00	5.00
135.	14.60	36.80	79.60	21.37	2.00	4.50
****	14.60	51.40	100.00	29.61	1.00	3.00

DENISON COAL LIMITED

DRILL HOLE #:7606 SEAM: 1

1.5 FLOAT/SINK ANALYSIS OF SEAM COMPONENTS

COMPONENT LAB NO. 76-1128

			AIR DRIED BASIS				
	WT%	ASH%	MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	66.30	8.70	1.10	22.30	67.90	.46	4.50
1.5 SINK	33.70	48.60					
TOTAL	100.00	22.20					
DRY BASIS		8.80		22.55	68.66		
D.A.F. BASIS		-		24.72	75.28		

COAL ANALYSIS PREPARED BY
WARNOCK HERSEY PROFESSIONAL SERVICES LTD.
SIGNED:

DENISON COAL LIMITED

PROJECT:SAXON AREA:SOUTH
DATE SAMPLED: OCT76 DATE ANALYSED: NOV76
DRILL HOLE #:7606 SEAM: 2
LAB COMPOSITE #: 76-1129-31

COMPOSITE DESCRIPTION

SAMPLE INTERVAL :	
DIP :	0
TRUE THICKNESS :	5.11
COAL/COAL+ROCK RATIO :	5.99/ 5.11
DRILL CORE RECOVERY :	82.65%

SIMULATED PRODUCT

SIZE	3/8 X 28	28 X 100	100 X 0
CUTPOINT	SP.G. 1.6	SP.G. 1.8	90 SEC.
CONTRIBUTION	38.9	16.0	7.0

	AIR DRIED	DRY BASIS	D.A.F.
YIELD	61.90		
MOISTURE	1.30		
ASH	7.40	7.50	
VOLATILE	22.30	22.59	24.42
F.C.	69.00	69.91	75.58
SULPHUR	.47		
PHOSPHORUS	.002		
F.S.I.	6.5		
SP.GR. (-60 MESH)	1.39		
HARDGROVE	87.20		

HEAD ANALYSIS - COMPOSITE RAW COAL

	AIR DRIED	DRY BASIS	D.A.F.
MOISTURE	1.30		
ASH	33.60	34.04	
VOLATILE	17.60	17.83	27.04
F.C.	47.50	48.13	72.96
F.S.I.	1.00		
SULPHUR	.31		
SP.GR.	1.53		

DRILL HOLE #:7606 SEAM: 2

FLOAT SINK ANALYSES

SIZE
3/8 X 28

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	51.80	5.80	51.80	5.80	6.50	6.50
1.50	3.10	14.80	54.90	6.31	1.00	6.50
1.60	2.20	19.80	57.10	6.83	1.00	6.50
1.80	2.20	26.60	59.30	7.56	1.00	6.00
2.60	40.70	87.50	100.00	40.10	0.	1.00

SIZE
28 X 100

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	53.80	4.50	53.80	4.50	8.00	8.00
1.50	12.40	8.20	66.20	5.19	6.00	7.50
1.60	4.60	12.00	70.80	5.64	4.00	7.50
1.80	3.20	24.30	74.00	6.44	1.00	7.00
2.60	26.00	76.70	100.00	24.71	0.	3.00

FROTH FLOATATION

SIZE
100 X 0

TIME.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
45.	35.10	11.80	35.10	11.80	6.50	6.50
45.	20.80	18.60	55.90	14.33	4.50	5.50
90.	12.60	31.50	68.50	17.49	4.00	5.00
135.	12.60	45.50	81.10	21.84	1.50	3.00
****	18.90	52.60	100.00	27.65	1.00	2.00

DRILL HOLE #:7606 SEAM: 2

1.5 FLOAT/SINK ANALYSIS OF SEAM COMPONENTS

COMPONENT LAB NO. 76-1129

	WT%	ASH%	AIR DRIED BASIS MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	63.60	6.20	.80	23.70	69.30	.47	7.00
1.5 SINK	36.40	37.00					
TOTAL	100.00	17.40					
DRY BASIS		6.25		23.89	69.86		
D.A.F. BASIS		-		25.48	74.52		

COMPONENT LAB NO. 76-1130

	WT%	ASH%	AIR DRIED BASIS MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	80.40	6.70	.90	24.10	68.30	.48	6.00
1.5 SINK	19.60	30.50					
TOTAL	100.00	11.40					
DRY BASIS		6.76		24.32	68.92		
D/A.F. BASIS		-		26.08	73.92		

COMPONENT LAB NO. 76-1131

	WT%	ASH%	AIR DRIED BASIS MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	1.20	8.90	.90	25.10	65.10	.48	7.00
1.5 SINK	98.80	82.80					
TOTAL	100.00	81.90					
DRY BASIS		8.98		25.33	65.69		
D.A.F. BASIS		-		27.83	72.17		

COAL ANALYSIS PREPARED BY
WARNOCK HERSEY PROFESSIONAL SERVICES LTD.
SIGNED:

DENISON COAL LIMITED

PROJECT:SAXON AREA:SOUTH
DATE SAMPLED: OCT76 DATE ANALYSED: NOV76
DRILL HOLE #:7606 SEAM: 4
LAB COMPOSITE #: 76-1132-38

COMPOSITE DESCRIPTION

SAMPLE INTERVAL :	
DIP :	0
TRUE THICKNESS :	7.33
COAL/COAL+ROCK RATIO :	6.19/ 7.33
DRILL CORE RECOVERY :	77.20%

SIMULATED PRODUCT

SIZE	3/8 X 28	28 X 100	100 X 0
CUTPOINT	SP.G. 1.6	SP.G. 1.8	90 SEC.
CONTRIBUTION	43.0	17.3	6.6

	AIR DRIED	DRY BASIS	D.A.F.
YIELD	66.90		
MOISTURE	1.30		
ASH	7.20	7.29	
VOLATILE	23.80	24.11	26.01
F.C.	67.70	68.59	73.99
SULPHUR	.37		
PHOSPHORUS	.013		
F.S.I.	7.0		
SP.GR. (-60 MESH)	1.35		
HARDGROVE	102.30		

HEAD ANALYSIS - COMPOSITE RAW COAL

	AIR DRIED	DRY BASIS	D.A.F.
MOISTURE	1.30		
ASH	27.80	28.17	
VOLATILE	19.90	20.16	28.07
F.C.	51.00	51.67	71.93
F.S.I.	2.50		
SULPHUR	.32		
SP.GR.	1.48		

DRILL HOLE #:7606 SEAM: 4

FLOAT SINK ANALYSES

SIZE
3/8 X 28

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	55.00	5.20	55.00	5.20	6.50	7.50
1.50	4.60	15.40	59.60	5.99	1.50	7.50
1.60	4.10	22.40	63.70	7.04	1.00	7.00
1.80	4.00	32.50	67.70	8.55	1.00	5.00
2.60	32.30	70.20	100.00	28.46	0.	1.50

SIZE
28 X 100

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	55.90	4.00	55.90	4.00	7.00	8.50
1.50	11.30	7.20	67.20	4.54	6.50	8.50
1.60	4.00	14.10	71.20	5.08	4.00	8.00
1.80	3.40	25.50	74.60	6.01	1.00	7.00
2.60	25.40	73.50	100.00	23.15	0.	3.00

FROTH FLOATATION

SIZE
100 X 0

TIME.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
45.	56.80	10.40	56.80	10.40	5.50	6.50
45.	8.50	31.80	65.30	13.19	4.00	6.00
90.	5.90	40.10	71.20	15.42	4.00	5.50
135.	14.40	50.10	85.60	21.25	3.00	4.50
****	14.40	54.90	100.00	26.10	1.50	3.00

DRILL HOLE #:7606 SEAM: 4

1.5 FLOAT/SINK ANALYSIS OF SEAM COMPONENTS

COMPONENT LAB NO. 76-1132

	WT%	ASH%	AIR DRIED BASIS MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	77.20	6.60	1.20	24.80	67.40	.40	5.50
1.5 SINK	22.80	41.80					
TOTAL	100.00	14.60					
DRY BASIS		6.68		25.10	68.22		
D.A.F. BASIS		-		26.90	73.10		

COMPONENT LAB NO. 76-1133

	WT%	ASH%	AIR DRIED BASIS MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	2.80	8.00	0.	0.	0.	0.	0.
1.5 SINK	97.20	39.80					
TOTAL	100.00	38.90					
DRY BASIS		8.00		0.	0.		
D.A.F. BASIS		-		0.	0.		

COMPONENT LAB NO. 76-1134

	WT%	ASH%	AIR DRIED BASIS MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	58.40	6.70	1.10	26.80	65.40	.44	8.00
1.5 SINK	41.60	53.80					
TOTAL	100.00	26.30					
DRY BASIS		6.77		27.10	66.13		
D.A.F. BASIS		-		29.07	70.93		

COMPONENT LAB NO. 76-1135

	WT%	ASH%	AIR DRIED BASIS MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	2.00	8.40	1.30	26.60	63.70	0.	6.50
1.5 SINK	98.00	84.30					
TOTAL	100.00	82.80					
DRY BASIS		8.51		26.95	64.54		
D.A.F. BASIS		-		29.46	70.54		

DRILL HOLE #:7606 SEAM: 4

1.5 FLOAT/SINK ANALYSIS OF SEAM COMPONENTS

COMPONENT LAB NO. 76-1136

			AIR DRIED BASIS				
	WT%	ASH%	MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	45.10	7.10	.70	24.80	67.40	6.44	7.00
1.5 SINK	54.90	65.00					
TOTAL	100.00	38.90					
DRY BASIS		7.15		24.97	67.88		
D.A.F. BASIS		-		26.90	73.10		

COMPONENT LAB NO. 76-1137

			AIR DRIED BASIS				
	WT%	ASH%	MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	.60	8.00	0.	0.	0.	0.	6.00
1.5 SINK	99.40	82.90					
TOTAL	100.00	82.40					
DRY BASIS		8.00		0.	0.		
D.A.F. BASIS		-		0.	0.		

COMPONENT LAB NO. 76-1138

			AIR DRIED BASIS				
	WT%	ASH%	MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	71.10	5.70	.90	24.80	68.60	.54	7.00
1.5 SINK	28.90	41.40					
TOTAL	100.00	16.00					
DRY BASIS		5.75		25.03	69.22		
D.A.F. BASIS		-		26.55	73.45		

COAL ANALYSIS PREPARED BY
WARNOCK HERSEY PROFESSIONAL SERVICES LTD.
SIGNED:

DENISON COAL LIMITED

PROJECT:SAXON AREA:SOUTH
DATE SAMPLED: OCT76 DATE ANALYSED: NOV76
DRILL HOLE #: 7907 SEAM: 1
LAB COMPOSITE #: 76-1139

COMPOSITE DESCRIPTION

SAMPLE INTERVAL	:	
DIP	:	0
TRUE THICKNESS	:	3.68
COAL/COAL+ROCK RATIO	:	3.16/ 3.68
DRILL CORE RECOVERY	:	75.86%

SIMULATED PRODUCT

SIZE	3/8 X 28	28 X 100	100 X 0
CUTPOINT	SP.G. 1.6	SP.G. 1.8	90 SEC.
CONTRIBUTION	48.4	18.2	9.7

	AIR DRIED	DRY BASIS	D.A.F.
YIELD	76.30		
MOISTURE	.90		
ASH	10.60	10.70	
VOLATILE	21.40	21.59	24.18
F.C.	67.10	67.71	75.82
SULPHUR	.41		
PHOSPHORUS	.006		
F.S.I.	4.0		
SP.GR. (-60 MESH)	1.47		
HARDGROVE	89.70		

HEAD ANALYSIS - COMPOSITE RAW COAL

	AIR DRIED	DRY BASIS	D.A.F.
MOISTURE	.70		
ASH	24.60	24.77	
VOLATILE	19.80	19.94	26.51
F.C.	54.90	55.29	73.49
F.S.I.	1.00		
SULPHUR	.34		
SP.GR.	1.41		

DENISON COAL LIMITED

DRILL HOLE #: 7607 SEAM: 1

FLOAT SINK ANALYSES

SIZE
3/8 X 28

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	47.80	7.40	47.80	7.40	4.00	4.00
1.50	15.80	16.10	63.60	9.56	1.00	4.00
1.60	10.90	23.40	74.50	11.59	1.00	3.00
1.80	5.10	32.40	79.60	12.92	1.00	2.50
2.60	20.40	81.90	100.00	26.99	0.	1.00

SIZE
28 X 100

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	34.60	5.40	34.60	5.40	6.50	6.50
1.50	17.10	10.30	51.70	7.02	2.50	6.00
1.60	13.50	15.20	65.20	8.71	1.00	6.00
1.80	12.90	21.70	78.10	10.86	1.00	5.00
2.60	21.90	50.40	100.00	19.52	0.	2.00

FROTH FLOATATION

SIZE
100 X 0

TIME.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
45.	54.00	13.60	54.00	13.60	4.00	4.00
45.	17.50	21.10	71.50	15.44	2.50	4.00
90.	11.10	29.30	82.60	17.30	2.50	3.50
135.	7.90	39.40	90.50	19.23	2.00	2.50
****	9.50	43.20	100.00	21.51	1.00	2.00

DRILL HOLE #: 7607 SEAM: 1

1.5 FLOAT/SINK ANALYSIS OF SEAM COMPONENTS

COMPONENT LAB NO. 76-1139

			AIR DRIED BASIS				
	WT%	ASH%	MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	64.20	10.10	.90	22.70	66.30	.40	3.00
1.5 SINK	35.80	43.70					
TOTAL	100.00	22.10					
DRY BASIS		10.19		22.91	66.90		
D.A.F. BASIS		-		25.51	74.49		

COAL ANALYSIS PREPARED BY
WARNOCK HERSEY PROFESSIONAL SERVICES LTD.
SIGNED:

DENISON COAL LIMITED

PROJECT:SAXON AREA:SOUTH
DATE SAMPLED: OCT76 DATE ANALYSED: NOV76
DRILL HOLE #:7607 SEAM: 2
LAB COMPOSITE #: 76-1140-42

COMPOSITE DESCRIPTION

SAMPLE INTERVAL	:	
DIP	:	0
TRUE THICKNESS	:	4.61
COAL/COAL+ROCK RATIO	:	4.31/ 4.61
DRILL CORE RECOVERY	:	66.96%

SIMULATED PRODUCT

SIZE	3/8 X 28	28 X 100	100 X 0
CUTPOINT	SP.G. 1.6	SP.G. 1.8	90 SEC.
CONTRIBUTION	52.4	18.8	6.9

	AIR DRIED	DRY BASIS	D.A.F.
YIELD	78.10		
MOISTURE	1.00		
ASH	7.00	7.07	
VOLATILE	24.60	24.85	26.74
F.C.	67.40	68.08	73.26
SULPHUR	.43		
PHOSPHORUS	.014		
F.S.I.	7.0		
SP.GR. (-60 MESH)	1.32		
HARDGROVE	91.30		

HEAD ANALYSIS - COMPOSITE RAW COAL

	AIR DRIED	DRY BASIS	D.A.F.
MOISTURE	1.60		
ASH	21.00	21.26	
VOLATILE	21.10	21.36	27.12
F.C.	56.70	57.39	72.88
F.S.I.	4.50		
SULPHUR	.34		
SP.GR.	1.39		

DENISON COAL LIMITED

DRILL HOLE #:7607 SEAM: 2

FLOAT SINK ANALYSES

SIZE
3/8 X 28

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	66.30	5.60	66.30	5.60	6.00	6.50
1.50	5.90	15.00	72.20	6.37	1.00	6.50
1.60	2.70	20.80	74.90	6.89	1.00	6.50
1.80	3.00	26.90	77.90	7.66	1.00	6.00
2.60	22.10	84.00	100.00	24.53	0.	4.00

SIZE
28 X 100

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	62.60	4.10	62.60	4.10	7.50	7.50
1.50	16.10	6.80	78.70	4.65	6.00	7.50
1.60	5.20	9.20	83.90	4.93	5.00	7.50
1.80	4.80	19.80	88.70	5.74	1.00	7.00
2.60	11.30	61.90	100.00	12.08	0.	5.50

FROTH FLOATATION

SIZE
100 X 0

TIME.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
45.	51.10	8.20	51.10	8.20	5.00	5.50
45.	11.10	15.60	62.20	9.52	4.50	5.50
90.	16.70	16.80	78.90	11.06	4.50	5.50
135.	11.10	25.70	90.00	12.87	3.50	5.50
****	10.00	44.80	100.00	16.06	1.50	5.00

DENISON COAL LIMITED

DRILL HOLE #:7607 SEAM: 2

1.5 FLOAT/SINK ANALYSIS OF SEAM COMPONENTS

COMPONENT LAB NO. 76-1140

			AIR DRIED BASIS				
	WT%	ASH%	MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	86.80	6.00	.60	25.80	67.60	.44	7.50
1.5 SINK	13.20	41.80					
TOTAL	100.00	10.70					
DRY BASIS		6.04		25.96	68.01		
D.A.F. BASIS		-		27.62	72.38		

COMPONENT LAB NO. 76-1141

			AIR DRIED BASIS				
	WT%	ASH%	MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	.50	19.20	%.	%.	0.	%.	%.
1.5 SINK	99.50	82.00					
TOTAL	100.00	81.60					
DRY BASIS		10.20		0.	0.		
D.A.F. BASIS		-		0.	0.		

COMPONENT LAB NO. 76-1142

			AIR DRIED BASIS				
	WT%	ASH%	MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	80.50	6.90	.70	25.50	66.90	.31	7.00
1.5 SINK	19.50	29.90					
TOTAL	100.00	11.40					
DRY BASIS		6.95		25.68	67.37		
D.A.F. BASIS		-		27.60	72.40		

COAL ANALYSIS PREPARED BY
WARNOCK HERSEY PROFESSIONAL SERVICES LTD.
SIGNED:

DENISON COAL LIMITED

PROJECT:SAXON AREA:SOUTH
DATE SAMPLED: OCT76 DATE ANALYSED: NOV76
DRILL HOLE #:7607 SEAM: 3
LAB COMPOSITE #: 76-1143

COMPOSITE DESCRIPTION

SAMPLE INTERVAL :	
DIP :	0
TRUE THICKNESS :	2.47
COAL/COAL ROCK RATIO :	2.10/ 2.47
DRILL CORE RECOVERY :	68.87%

SIMULATED PRODUCT

SIZE	3/8 X 28	28 X 100	100 X 0
CUTPOINT	SP.G. 1.6	SP.G. 1.8	90 SEC.
CONTRIBUTION	43.8	17.9	7.9

	AIR DRIED	DRY BASIS	D.A.F.
YIELD	69.60		
MOISTURE	1.00		
ASH	9.00	9.09	
VOLATILE	23.80	24.04	26.44
F.C.	66.20	66.87	73.56
SULPHUR	.68		
PHOSPHORUS	.019		
F.S.I.	7.5		
SP.GR. (-60 MESH)	1.38		
HARDGROVE	88.80		

HEAD ANALYSIS - COMPOSITE RAW COAL

	AIR DRIED	DRY BASIS	D.A.F.
MOISTURE	1.30		
ASH	25.30	25.63	
VOLATILE	20.80	21.07	28.34
F.C.	52.60	53.29	71.66
F.S.I.	5.00		
SULPHUR	.56		
SP.GR.	1.40		

DENISON COAL LIMITED

DRILL HOLE #:7607 SEAM: 3

FLOAT SINK ANALYSES

SIZE
3/8 X 28

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	54.00	6.80	54.00	6.80	8.00	8.00
1.50	7.10	15.20	61.10	7.78	3.00	7.50
1.60	3.30	23.20	64.40	8.57	1.00	7.00
1.80	6.70	39.00	71.10	11.43	1.00	6.50
2.60	28.90	70.90	100.00	28.62	0.	3.50

SIZE
28 X 100

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	39.90	4.50	39.90	4.50	8.50	8.50
1.50	29.30	7.30	69.20	5.69	7.00	8.00
1.60	4.20	14.10	73.40	6.17	5.50	8.00
1.80	8.10	22.10	81.50	7.75	1.00	7.50
2.60	18.50	61.30	100.00	17.66	0.	6.00

FROTH FLOATATION

SIZE
100 X 0

TIME.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
45.	38.00	10.40	38.00	10.40	8.00	8.00
45.	28.00	17.00	66.00	13.20	4.50	7.50
90.	14.00	28.50	80.00	15.88	4.00	7.00
135.	10.00	36.80	90.00	18.20	4.00	6.50
****	10.00	48.40	100.00	21.22	1.50	5.50

DENISON COAL LIMITED

DRILL HOLE #:7607 SEAM: 3

1.5 FLOAT/SINK ANALYSIS OF SEAM COMPONENTS

COMPONENT LAB NO. 76-1143

			AIR DRIED BASIS				
	WT%	ASH%	MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	59.40	7.60	.80	26.00	65.60	.74	8.50
1.5 SINK	40.60	49.40					
TOTAL	100.00	24.60					
DRY BASIS		7.66		26.21	66.13		
D.A.F. BASIS		-		28.38	71.62		

COAL ANALYSIS PREPARED BY
WARNOCK HERSEY PROFESSIONAL SERVICES LTD.
SIGNED:

DENISON COAL LIMITED

PROJECT:SAXON AREA:SOUTH
DATE SAMPLED: OCT76 DATE ANALYSED: NOV76
DRILL HOLE #:7607 SEAM: 4
LAB COMPOSITE #: 76-1144-47

COMPOSITE DESCRIPTION

SAMPLE INTERVAL	:	
DIP	:	0
TRUE THICKNESS	:	11.27
COAL/COAL+ROCK RATIO	:	7.51/11.27
DRILL CORE RECOVERY	:	1.00%

SIMULATED PRODUCT

SIZE	3/8 X 28	28 X 100	100 X 0
CUTPOINT	SP.G. 1.6	SP.G. 1.8	90 SEC.
CONTRIBUTION	55.0	20.7	5.4

	AIR DRIED	DRY BASIS	D.A.F.
YIELD	81.10		
MOISTURE	.90		
ASH	6.80	6.86	
VOLATILE	25.80	26.03	27.95
F.C.	66.50	67.10	72.05
SULPHUR	.42		
PHOSPHORUS	.009		
F.S.I.	8.0		
SP.GR. (-60 MESH)	1.33		
HARDGROVE	85.80		

HEAD ANALYSIS - COMPOSITE RAW COAL

	AIR DRIED	DRY BASIS	D.A.F.
MOISTURE	1.10		
ASH	17.30	17.49	
VOLATILE	24.50	24.77	30.02
F.C.	57.10	57.74	69.98
F.S.I.	5.50		
SULPHUR	.34		
SP.GR.	1.38		

DRILL HOLE #:7607 SEAM: 4

FLOAT SINK ANALYSES

SIZE
3/8 X 28

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	68.70	4.90	68.70	4.90	6.50	6.50
1.50	5.60	16.00	74.30	5.74	3.50	6.50
1.60	3.90	25.30	78.20	6.71	1.00	6.50
1.80	5.30	34.30	83.50	8.46	1.00	6.00
2.60	16.50	72.10	100.00	18.96	0.	5.00

SIZE
28 X 100

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	73.70	38.00	73.70	38.00	7.50	8.50
1.50	6.00	10.20	79.70	35.91	6.50	8.50
1.60	5.50	13.90	85.20	34.49	4.50	8.00
1.80	4.20	26.00	89.40	34.09	1.00	8.00
2.60	10.60	58.40	100.00	36.66	0.	7.00

FROTH FLOATATION

SIZE
100 X 0

TIME.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
45.	51.40	7.60	51.40	7.60	7.50	8.50
45.	17.10	14.00	68.50	9.20	5.00	8.00
90.	14.40	21.90	82.90	11.40	4.50	7.50
135.	8.10	31.20	91.00	13.17	3.50	7.00
****	9.00	40.60	100.00	15.64	2.50	6.00

DRILL HOLE #:7607 SEAM: 4

1.5 FLOAT/SINK ANALYSIS OF SEAM COMPONENTS

COMPONENT LAB NO. 76-1144

	WT%	ASH%	AIR DRIED BASIS MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	76.40	6.00	1.20	28.40	64.40	.59	8.50
1.5 SINK	23.60	39.80					
TOTAL	100.00	14.00					
DRY BASIS		6.07		28.74	65.18		
D.A.F. BASIS		-		30.60	69.40		

COMPONENT LAB NO. 76-1145

	WT%	ASH%	AIR DRIED BASIS MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	18.80	8.70	.80	26.90	63.60	.53	9.00
1.5 SINK	81.20	64.50					
TOTAL	100.00	54.00					
DRY BASIS		8.77		27.12	64.11		
D.A.F. BASIS		-		29.72	70.28		

COMPONENT LAB NO. 76-1146

	WT%	ASH%	AIR DRIED BASIS MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	83.90	5.80	.50	27.00	66.10	.29	7.00
1.5 SINK	16.10	35.90					
TOTAL	100.00	10.60					
DRY BASIS		5.83		27.14	66.43		
D.A.F. BASIS		-		28.82	70.54		

COMPONENT LAB NO. 76-1147

	WT%	ASH%	AIR DRIED BASIS MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	27.90	7.50	.70	27.50	64.30	.50	8.00
1.5 SINK	72.10	66.20					
TOTAL	100.00	49.80					
DRY BASIS		7.55		27.69	64.75		
D.A.F. BASIS		-		29.96	70.04		

COAL ANALYSIS PREPARED BY
WARNOCK HERSEY PROFESSIONAL SERVICES LTD.
SIGNED:

DENISON COAL LIMITED

PROJECT:SAXON AREA:SOUTH
DATE SAMPLED: OCT76 DATE ANALYSED: NOV76
DRILL HOLE #:7608 SEAM: S
LAB COMPOSITE #: 76-1148

COMPOSITE DESCRIPTION

SAMPLE INTERVAL	:	
DIP	:	0
TRUE THICKNESS	:	1.87
COAL/COAL+ROCK RATIO	:	1.52/ 1.87
DRILL CORE RECOVERY	:	82.03%

SIMULATED PRODUCT

SIZE	3/8 X 28	28 X 100	100 X 0
CUTPOINT	SP.G. 1.6	SP.G. 1.8	90 SEC.
CONTRIBUTION	54.1	19.7	5.7

	AIR DRIED	DRY BASIS	D.A.F.
YIELD	79.50		
MOISTURE	.90		
ASH	8.70	8.78	
VOLATILE	25.40	25.63	28.10
F.C.	65.00	65.59	71.90
SULPHUR	.57		
PHOSPHORUS	.056		
F.S.I.	8.0		
SP.GR. (-60 MESH)	1.40		
HARDGROVE	100.30		

HEAD ANALYSIS - COMPOSITE RAW COAL

	AIR DRIED	DRY BASIS	D.A.F.
MOISTURE	.80		
ASH	19.60	19.76	
VOLATILE	22.70	22.88	28.52
F.C.	56.90	57.36	71.48
F.S.I.	5.00		
SULPHUR	.54		
SP.GR.	1.44		

DENISON COAL LIMITED

DRILL HOLE #:7608 SEAM: 5

FLOAT SINK ANALYSES

SIZE
3/8 X 28

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	68.80	7.60	68.80	7.60	8.00	8.00
1.50	6.10	13.80	74.90	8.10	1.50	8.00
1.60	3.80	25.30	78.70	8.94	1.50	7.50
1.80	4.30	38.60	83.00	10.47	1.00	6.00
2.60	17.00	68.60	100.00	20.35	0.	4.00

SIZE
28 X 100

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	47.10	5.50	47.10	5.50	8.50	8.50
1.50	28.70	8.10	75.80	6.48	7.00	8.00
1.60	3.90	14.20	79.70	6.86	5.50	8.00
1.80	5.50	22.60	85.20	7.88	2.50	8.00
2.60	14.80	55.10	100.00	14.87	0.	7.00

FROTH FLOATATION

SIZE
100 X 0

TIME.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
45.	27.00	8.20	27.00	8.20	7.50	7.50
45.	29.70	10.30	56.70	9.30	7.00	7.50
90.	13.50	19.30	70.20	11.22	5.00	7.00
135.	16.30	23.20	86.50	13.48	5.00	6.00
****	13.50	33.40	100.00	16.17	3.50	5.50

DENISON COAL LIMITED

DRILL HOLE #:7608 SEAM: 5

1.5 FLOAT/SINK ANALYSIS OF SEAM COMPONENTS

COMPONENT LAB NO. 76-1148

			AIR DRIED BASIS				
	WT%	ASH%	MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	67.40	8.40	.80	26.40	64.40	.68	7.50
1.5 SINK	32.60	41.30					
TOTAL	100.00	19.10					
DRY BASIS		8.47		26.61	64.92		
D.A.F. BASIS		-		29.07	70.93		

COAL ANALYSIS PREPARED BY
WARNOCK HERSEY PROFESSIONAL SERVICES LTD.
SIGNED:

DENISON COAL LIMITED

PROJECT:SAXON AREA:EAST
DATE SAMPLED: OCT76 DATE ANALYSED: NOV76
DRILL HOLE #:7609 SEAM: 1
LAB COMPOSITE #: 76-1149

COMPOSITE DESCRIPTION

SAMPLE INTERVAL	:	
DIP	:	0
TRUE THICKNESS	:	.89
COAL/COAL+ROCK RATIO	:	.81/ .89
DRILL CORE RECOVERY	:	1.00%

SIMULATED PRODUCT

SIZE	3/8 X 28	28 X 100	100 X 0
CUTPOINT	SP.G. 1.6	SP.G. 1.8	90 SEC.
CONTRIBUTION	62.2	15.0	10.0

	AIR DRIED	DRY BASIS	D.A.F.
YIELD	87.60		
MOISTURE	.70		
ASH	7.60	7.65	
VOLATILE	21.40	21.55	23.34
F.C.	70.30	70.80	76.66
SULPHUR	.56		
PHOSPHORUS	.018		
F.S.I.	8.0		
SP.GR. (-60 MESH)	1.40		
HARDGROVE	0.		

HEAD ANALYSIS - COMPOSITE RAW COAL

	AIR DRIED	DRY BASIS	D.A.F.
MOISTURE	.80		
ASH	12.80	12.90	
VOLATILE	20.20	20.36	23.38
F.C.	66.20	66.73	76.62
F.S.I.	6.50		
SULPHUR	.51		
SP.GR.	1.31		

DENISON COAL LIMITED

DRILL HOLE #:7609 SEAM: 1

FLOAT SINK ANALYSES

SIZE
3/8 X 28

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	74.00	4.80	74.00	4.80	8.50	8.50
1.50	11.50	14.10	85.50	6.05	1.50	8.00
1.60	7.70	24.40	93.20	7.57	1.00	8.00
1.80	3.10	31.70	96.30	8.34	1.00	7.50
2.60	3.70	72.70	100.00	10.72	0.	6.00

SIZE
28 X 100

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	51.20	3.50	51.20	3.50	8.50	8.50
1.50	9.80	8.50	61.00	4.30	7.50	8.50
1.60	7.80	14.00	68.80	5.40	3.50	8.00
1.80	8.40	14.60	77.20	6.40	2.50	8.00
2.60	22.80	50.20	100.00	16.39	0.	6.50

FROTH FLOATATION

SIZE
100 X 0

TIME.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
45.	31.80	10.00	31.80	10.00	9.00	6.50
45.	22.70	13.20	54.50	11.33	5.50	6.50
90.	18.30	19.10	72.80	13.29	5.00	6.50
135.	13.60	32.20	86.40	16.26	4.50	6.00
****	13.60	40.20	100.00	19.52	2.50	5.50

DENISON COAL LIMITED

DRILL HOLE #:7609 SEAM: 1

1.5 FLOAT/SINK ANALYSIS OF SEAM COMPONENTS

COMPONENT LAB NO. 76-1149

			AIR DRIED BASIS				
	WT%	ASH%	MOIST	VOL.	F.C'	S.	F.S.I.
1.5 FLOAT	76.10	6.70	.40	21.50	71.40	.49	8.50
1.5 SINK	23.90	39.00					
TOTAL	100.00	14.40					
DRY BASIS		6.73		21.59	71.69		
D.A.F. BASIS		-		23.14	76.86		

COAL ANALYSIS PREPARED BY
WARNOCK HERSEY PROFESSIONAL SERVICES LTD.
SIGNED:

DENISON COAL LIMITED

PROJECT:SAXON AREA:EAST
DATE SAMPLED: OCT76 DATE ANALYSED: NOV76
DRILL HOLE #:7609 SEAM: 1
LAB COMPOSITE #: 76-1151

COMPOSITE DESCRIPTION

SAMPLE INTERVAL	:	
DIP	:	0
TRUE THICKNESS	:	3.47
COAL/COAL+ROCK RATIO	:	3.47/ 3.47
DRILL CORE RECOVERY	:	41.79%

SIMULATED PRODUCT

SIZE	3/8 X 28	28 X 100	100 X 0
CUTPOINT	SP.G. 1.6	SP.G. 1.8	90 SEC.
CONTRIBUTION	62.2	15.0	10.0

	AIR DRIED	DRY BASIS	D.A.F.
YIELD	87.20		
MOISTURE	.70		
ASH	7.60	7.65	
VOLATILE	21.40	21.55	23.34
F.C.	70.30	70.80	76.66
SULPHUR	.56		
PHOSPHORUS	.018		
F.S.I.	8.0		
SP.GR. (-60 MESH)	1.40		
HARDGROVE	0.		

HEAD ANALYSIS - COMPOSITE RAW COAL

	AIR DRIED	DRY BASIS	D.A.F.
MOISTURE	.80		
ASH	12.80	12.90	
VOLATILE	20.20	20.36	23.38
F.C.	66.20	66.73	76.62
F.S.I.	6.50		
SULPHUR	.51		
SP.GR.	1.31		

DRILL HOLE #:7609 SEAM: 1

FLOAT SINK ANALYSES

SIZE
3/8 X 28

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	56.50	4.30	56.50	4.30	8.00	8.50
1.50	4.50	11.60	61.00	4.84	1.00	8.00
1.60	6.20	17.90	67.20	6.04	1.00	8.00
1.80	15.80	25.90	83.00	9.82	1.00	7.50
2.60	17.00	56.70	100.00	17.79	0.	6.00

SIZE
28 X 100

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	47.00	3.40	47.00	3.40	7.50	8.50
1.50	20.60	9.40	67.60	5.23	2.00	8.50
1.60	6.70	12.20	74.30	5.86	1.00	8.00
1.80	10.30	18.80	84.60	7.43	1.00	8.00
2.60	15.40	40.60	100.00	12.54	0.	6.50

FROTH FLOATATION

SIZE
100 X 0

TIME.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
45.	55.60	11.60	55.60	11.60	3.50	6.50
45.	25.00	21.80	80.60	14.76	3.00	6.50
90.	5.50	31.60	86.10	15.84	2.00	6.50
135.	2.80	32.20	88.90	16.35	0.	6.00
****	11.10	33.10	100.00	18.21	2.00	5.50

DRILL HOLE #:7609 SEAM: 1

1.5 FLOAT/SINK ANALYSIS OF SEAM COMPONENTS

COMPONENT LAB NO. 76-1151

			AIR DRIED BASIS				
	WT%	ASH%	MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	58.00	6.50	.50	20.90	72.10	.37	7.50
1.5 SINK	42.00	37.00					
TOTAL	100.00	19.30					
DRY BASIS		6.53		21.01	72.46		
D.A.F. BASIS		-		22.47	77.53		

COMPONENT LAB NO. 76-1150

			AIR DRIED BASIS				
	WT%	ASH%	MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	3.10	9.60	.40	22.50	67.50	.42	8.50
1.5 SINK	96.90	73.60					
TOTAL	100.00	71.60					
DRY BASIS		9.64		22.59	67.77		
D.A.F. BASIS		-		25.00	75.00		

COAL ANALYSIS PREPARED BY
WARNOCK HERSEY PROFESSIONAL SERVICES LTD.
SIGNED:

DENISON COAL LIMITED

PROJECT:SAKON AREA:EAST
DATE SAMPLED: OCT76 DATE ANALYSED: NOV76
DRILL HOLE #:7609 SEAM: 2
LAB COMPOSITE #: 76-1152

COMPOSITE DESCRIPTION

SAMPLE INTERVAL :	
DIP :	0
TRUE THICKNESS :	3.48
COAL/COAL+ROCK RATIO :	2.66/ 3.48
DRILL CORE RECOVERY :	77.99%

SIMULATED PRODUCT

SIZE	3/8 X 28	28 X 100	100 X 0
CUTPOINT	SP.G. 1.6	SP.G. 1.8	90 SEC.
CONTRIBUTION	41.2	18.9	7.5

	AIR DRIED	DRY BASIS	D.A.F.
YIELD	67.60		
MOISTURE	.70		
ASH	9.00	9.06	
VOLATILE	19.70	19.84	21.82
F.C.	70.60	71.10	78.18
SULPHUR	.54		
PHOSPHORUS	.005		
F.S.I.	6.0		
SP/GR. (-60 MESH)	1.43		
HARDGROVE	102.50		

HEAD ANALYSIS - COMPOSITE RAW COAL

	AIR DRIED	DRY BASIS	D.A.F.
MOISTURE	.40		
ASH	26.40	26.51	
VOLATILE	17.40	17.47	23.77
F.C.	55.80	56.02	76.23
F.S.I.	1.50		
SULPHUR	.63		
SP.GR.	1.43		

DRILL HOLE #:7609 SEAM: 2

FLOAT SINK ANALYSES

SIZE
3/8 X 28

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	45.60	5.50	45.60	5.50	7.50	7.50
1.50	7.00	17.00	52.60	7.03	1.00	7.00
1.60	9.50	23.70	62.10	9.58	1.00	6.00
1.80	8.30	36.10	70.40	12.71	1.00	4.50
2.60	29.60	75.40	100.00	31.26	0.	1.00

SIZE
28 X 100

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	53.60	4.00	53.60	4.00	7.50	7.50
1.50	10.70	11.70	64.30	5.28	2.00	7.00
1.60	3.70	18.50	68.00	6.00	1.00	7.00
1.80	7.50	27.20	75.50	8.11	1.00	6.50
2.60	24.50	59.20	100.00	20.62	0.	2.50

FROTH FLOATATION

SIZE
100 X 0

TIME.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
45.	41.70	10.60	41.70	10.60	6.00	6.00
90.	27.10	20.40	68.80	14.46	3.00	5.50
135.	17.70	30.00	86.50	17.64	2.50	5.00
180.	8.30	42.60	94.80	19.83	2.00	4.50
****	5.20	48.20	100.00	21.30	1.50	3.50

DENISON COAL LIMITED

DRILL HOLE #:7609 SEAM: 2

1.5 FLOAT/SINK ANALYSIS OF SEAM COMPONENTS

COMPONENT LAB NO. 76-1152

			AIR DRIED BASIS				
	WT%	ASH%	MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	52.00	8.10	.70	21.10	70.10	.64	7.50
1.5 SINK	48.00	49.50					
TOTAL	100.00	28.00					
DRY BASIS		8.16		21.25	70.59		
D.A.F. BASIS		-		23.14	76.86		

COAL ANALYSIS PREPARED BY
WARNOCK HERSEY PROFESSIONAL SERVICES LTD.
SIGNED:

PROJECT:SAXON AREA:EAST
DATE SAMPLED: OCT76 DATE ANALYSED: NOV76
DRILL HOLE #:7609 SEAM: 4
LAB COMPOSITE #: 76-1153

COMPOSITE DESCRIPTION

SAMPLE INTERVAL	:	
DIP	:	0
TRUE THICKNESS	:	2.68
COAL/COAL+ROCK RATIO	:	2.68/ 2.68
DRILL CORE RECOVERY	:	1.00%

SIMULATED PRODUCT

SIZE	3/8 X 28	28 X 100	100 X 0
CUTPOINT	SP.G. 1.6	SP.G. 1.8	90 SEC.
CONTRIBUTION	44.2	20.1	4.3

	AIR DRIED	DRY BASIS	D.A.F.
YIELD	68.60		
MOISTURE	.80		
ASH	8.90	8.97	
VOLATILE	20.20	20.36	22.37
F.C.	70.10	70.67	77.63
SULPHUR	.45		
PHOSPHORUS	.020		
F.S.I.	4.5		
SP.GR. (-60 MESH)	1.42		
HARDGROVE	114.30		

HEAD ANALYSIS - COMPOSITE RAW COAL

	AIR DRIED	DRY BASIS	D.A.F.
MOISTURE	.40		
ASH	21.80	21.89	
VOLATILE	18.60	18.67	23.91
F.C.	59.20	59.44	76.09
F.S.I.	1.50		
SULPHUR	.40		
SP.GR.	1.37		

DRILL HOLE #:7609 SEAM: 4

FLOAT SINK ANALYSES

SIZE
3/8 X 28

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	55.50	6.00	55.50	6.00	4.00	4.00
1.50	7.80	15.20	63.30	7.13	1.00	4.00
1.60	7.20	19.50	70.50	8.40	1.00	3.50
1.80	5.60	35.00	76.10	10.35	1.00	2.50
2.60	23.90	66.80	100.00	23.84	0.	1.00

SIZE
28 X 100

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	50.20	4.80	50.20	4.80	6.50	6.50
1.50	14.00	9.70	64.20	5.87	2.50	6.00
1.60	8.30	15.80	72.50	7.01	1.00	6.00
1.80	6.70	24.20	79.20	8.46	1.00	5.50
2.60	20.80	55.90	100.00	18.33	0.	2.50

FROTH FLOATATION

SIZE
100 X 0

TIME.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
45.	1.90	5.60	1.90	5.60	7.00	7.00
45.	6.60	5.60	8.50	5.60	7.00	7.00
90.	27.40	9.70	35.90	8.73	5.50	6.00
135.	52.80	20.20	88.70	15.56	3.50	4.50
****	11.30	48.60	100.00	19.29	1.50	3.50

DENISON COAL LIMITED

DRILL HOLE #:7609 SEAM: 4

1.5 FLOAT/SINK ANALYSIS OF SEAM COMPONENTS

COMPONENT LAB NO. 76-1153

			AIR DRIED BASIS				
	WT%	ASH%	MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	62.60	8.10	.60	21.00	70.30	.46	5.00
1.5 SINK	37.40	44.40					
TOTAL	100.00	21.70					
DRY BASIS		8.15		21.13	70.72		
D.A.F. BASIS		-		23.00	77.00		

COAL ANALYSIS PREPARED BY
WARNOCK HERSEY PROFESSIONAL SERVICES LTD.
SIGNED:

DENISON COAL LIMITED

PROJECT:SAXON AREA:SOUTH
DATE SAMPLED: OCT76 DATE ANALYSED: NOV76
DRILL HOLE #: 7610 SEAM: 1
LAB COMPOSITE #: 76-1154-56

COMPOSITE DESCRIPTION

SAMPLE INTERVAL	:	
DIP	:	0
TRUE THICKNESS	:	3.73
COAL/COAL+ROCK RATIO	:	3.35/ 3.73
DRILL CORE RECOVERY	:	82.57%

SIMULATED PRODUCT

SIZE	3/8 X 28	28 X 100	100 X 0
CUTPOINT	SP.G. 1.6	SP.G. 1.8	90 SEC.

DRILL HOLE #: 7610 SEAM: 1

DRILL HOLE #: 7610 SEAM: 1

1.5 FLOAT/SINK ANALYSIS OF SEAM COMPONENTS

COMPONENT LAB NO. 76-1154

	WT%	ASH%	AIR DRIED BASIS MOIST	VOL.	F'C.	S.	F.S.I.
1.5 FLOAT	51.80	8.40	.60	23.50	67.50	.43	7.50
1.5 SINK	48.20	52.80					
TOTAL	100.00	29.80					
DRY BASIS		8.45		23.64	67.91		
D.A.F. BASIS		-		25.82	74.18		

COMPONENT LAB NO. 76-1155

	WT%	ASH%	AIR DRIED BASIS MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	9.70	11.10	.50	22.20	66.20	.40	5.50
1.5 SINK	90.30	70.30					
TOTAL	100.00	64.60					
DRY BASIS		11.16		22.31	66.53		
D.A.F. BASIS		-		25.11	74.89		

COMPONENT LAB NO. 76-1156

	WT%	ASH%	AIR DRIED BASIS MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	80.50	7.40	.40	25.60	66.60	.45	8.50
1.5 SINK	19.50	33.70					
TOTAL	100.00	12.50					
DRY BASIS		7.43		25.70	66.87		
D.A.F. BASIS		-		27.77	72.23		

COAL ANALYSIS PREPARED BY
WARNOCK HERSEY PROFESSIONAL SERVICES LTD.
SIGNED:

DENISON COAL LIMITED

PROJECT:SAXON AREA:SOUTH
DATE SAMPLED: OCT76 DATE ANALYSED: NOV76
DRILL HOLE #:7610 SEAM: 2
LAB COMPOSITE #: 76-1157-59

COMPOSITE DESCRIPTION

SAMPLE INTERVAL	:	
DIP	:	0
TRUE THICKNESS	:	5.97
COAL/COAL+ROCK RATIO	:	5.21/ 5.97
DRILL CORE RECOVERY	:	92.63%

SIMULATED PRODUCT

SIZE	3/8 X 28	28 X 100	100 X 0
CUTPOINT	SP.G. 1.6	SP.G. 1.8	90 SEC.
CONTRIBUTION	46.6	15.0	5.9

	AIR DRIED	DRY BASIS	D.A.F.
YIELD	67.50		
MOISTURE	.70		
ASH	6.90	6.95	
VOLATILE	23.60	23.77	25.54
F.C.	68.80	69.28	74.46
SULPHUR	.47		
PHOSPHORUS	.009		
F.S.I.	7.5		
SP.GR. (-60 MESH)	1.35		
HARDGROVE	87.80		

HEAD ANALYSIS - COMPOSITE RAW COAL

	AIR DRIED	DRY BASIS	D.A.F.
MOISTURE	1.70		
ASH	29.50	29.80	
VOLATILE	20.30	20.51	29.21
F.C.	49.20	49.70	70.79
F.S.I.	3.00		
SULPHUR	.36		
SP.GR.	1.45		

DRILL HOLE #:7610 SEAM: 2

FLOAT SINK ANALYSES

SIZE
3/8 X 28

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	57.50	4.80	57.50	4.80	7.50	7.50
1.50	8.20	14.80	65.70	6.05	1.00	7.00
1.60	1.90	20.40	67.60	6.45	1.00	7.00
1.80	1.70	27.10	69.30	6.96	1.00	6.50
2.60	30.70	84.30	100.00	30.70	0.	2.00

SIZE
28 X 100

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	60.70	4.20	60.70	4.20	8.50	8.50
1.50	6.90	10.40	67.60	4.83	2.00	8.00
1.60	3.90	15.10	71.50	5.39	2.00	8.00
1.80	2.50	25.80	74.00	6.08	1.50	7.50
2.60	26.00	80.10	100.00	25.33	0.	3.50

FROTH FLOATATION

SIZE
100 X 0

TIME.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
45.	17.60	10.10	17.60	10.10	6.50	6.50
45.	13.60	11.30	31.20	10.62	6.00	6.50
90.	24.00	16.20	55.20	13.05	5.50	6.00
135.	14.40	43.00	69.60	19.24	2.50	4.00
****	30.40	47.90	100.00	27.96	1.00	3.00

DRILL HOLE #:7610 SEAM: 2

1.5 FLOAT/SINK ANALYSIS OF SEAM COMPONENTS

COMPONENT LAB NO. 76-1157

			AIR DRIED BASIS				
	WT%	ASH%	MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	89.20	6.60	.30	24.90	68.20	.47	8.00
1.5 SINK	10.80	40.00					
TOTAL	100.00	10.20					
DRY BASIS		6.62		24.97	68.41		
D.A.F. BASIS		-		26.75	73.25		

COMPONENT LAB NO. 76-1158

			AIR DRIED BASIS				
	WT%	ASH%	MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	2.60	6.80	.50	26.40	66.30	.64	9.00
1.5 SINK	97.40	78.80					
TOTAL	100.00	76.90					
DRY BASIS		6.83		26.53	66.63		
D.A.F. BASIS		-		28.48	71.52		

COMPONENT LAB NO. 76-1159

			AIR DRIED BASIS				
	WT%	ASH%	MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	85.80	6.10	.60	24.20	69.10	.30	7.00
1.5 SINK	14.20	21.70					
TOTAL	100.00	8.30					
DRY BASIS		6.14		24.35	69.52		
D.A.F. BASIS		-		25.94	74.06		

COAL ANALYSIS PREPARED BY
WARNOCK HERSEY PROFESSIONAL SERVICES LTD.
SIGNED:

DENISON COAL LIMITED

PROJECT:SAXON AREA:SOUTH
DATE SAMPLED: OCT76 DATE ANALYSED: NOV76
DRILL HOLE #:7610 SEAM: 4
LAB COMPOSITE #: 76-1160

COMPOSITE DESCRIPTION

SAMPLE INTERVAL :	
DIP :	0
TRUE THICKNESS :	8.25
COAL/COAL+ROCK RATIO :	6.38/ 8.25
DRILL CORE RECOVERY :	63.03%

SIMULATED PRODUCT

SIZE	3/8 X 28	28 X 100	100 X 0
CUTPOINT	SP.G. 1.6	SP.G. 1.8	90 SEC.
CONTRIBUTION	53.0	17.8	3.7

	AIR DRIED	DRY BASIS	D.A.F.
YIELD	74.50		
MOISTURE	.70		
ASH	7.40	7.45	
VOLATILE	25.20	25.38	27.42
F.C.	66.70	67.17	72.58
SULPHUR	.41		
PHOSPHORUS	.015		
F.S.I.	7.0		
SP.GR. (-60 MESH)	1.38		
HARDGROVE	82.30		

HEAD ANALYSIS - COMPOSITE RAW COAL

	AIR DRIED	DRY BASIS	D.A.F.
MOISTURE	1.20		
ASH	19.40	19.64	
VOLATILE	23.90	24.19	30.10
F.C.	55.50	56.17	69.90
F.S.I.	5.00		
SULPHUR	.34		
SP.GR.	1.38		

DRILL HOLE #:7610 SEAM: 4

FLOAT SINK ANALYSES

SIZE
3/8 X 28

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	64.80	5.40	64.80	5.40	6.00	6.50
1.50	5.20	16.40	70.00	6.22	2.00	6.50
1.60	4.90	23.70	74.90	7.36	1.00	6.00
1.80	9.80	31.30	84.70	10.13	1.00	5.50
2.60	15.30	62.70	100.00	18.17	0.	4.00

SIZE
28 X 100

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	68.30	4.30	68.30	4.30	7.50	8.50
1.50	8.80	10.50	77.10	5.01	4.50	8.50
1.60	5.60	16.40	82.70	5.78	2.50	8.00
1.80	.70	27.20	83.40	5.96	1.00	8.00
2.60	16.60	64.60	100.00	15.69	0.	6.00

FROTH FLOATATION

SIZE
100 X 0

TIME.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
45.	9.60	5.00	9.60	5.00	7.50	7.50
45.	14.80	8.20	24.40	6.94	6.50	7.00
90.	21.70	15.10	46.10	10.78	6.00	6.50
135.	45.20	24.70	91.30	17.67	5.00	6.00
****	8.70	59.60	100.00	21.32	1.50	5.50

DENISON COAL LIMITED

DRILL HOLE #:7610 SEAM: 4

1.5 FLOAT/SINK ANALYSIS OF SEAM COMPONENTS

COMPONENT LAB NO. 76-1160

			AIR DRIED BASIS				
	WT%	ASH%	MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	64.90	6.50	.50	26.00	67.00	.29	7.00
1.5 SINK	35.10	42.50					
TOTAL	100.00	19.10					
DRY BASIS		6.53		26.13	67.34		
D.A.F. BASIS		-		27.96	72.04		

COMPONENT LAB NO. 76-1161

			AIR DRIED BASIS				
	WT%	ASH%	MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	2.10	9.00	.70	25.00	65.30	.46	7.50
1.5 SINK	97.90	80.00					
TOTAL	100.00	78.50					
DRY BASIS		9.06		25.18	65.76		
D.A.F. BASIS		-		27.69	72.31		

COMPONENT LAB NO. 76-1162

			AIR DRIED BASIS				
	WT%	ASH%	MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	32.10	7.50	.60	24.60	67.30	.57	7.50
1.5 SINK	67.90	58.00					
TOTAL	100.00	41.80					
DRY BASIS		7.55		24.75	67.71		
D.A.F. BASIS		-		26.77	73.23		

COAL ANALYSIS PREPARED BY
WARNOCK HERSEY PROFESSIONAL SERVICES LTD.
SIGNED:

DENISON COAL LIMITED

PROJECT:SAXON AREA:SOUTH
DATE SAMPLED: OCT76 DATE ANALYSED: NOV76
DRILL HOLE #: 7611 SEAM: 1
LAB COMPOSITE #: 76-1163

COMPOSITE DESCRIPTION

SAMPLE INTERVAL	:	
DIP	:	0
TRUE THICKNESS	:	3.20
COAL/COAL+ROCK RATIO	:	3.07/ 3.20
DRILL CORE RECOVERY	:	73.15%

SIMULATED PRODUCT

SIZE	3/8 X 28	28 X 100	100 X 0
CUTPOINT	SP.G. 1.6	SP.G. 1.8	90 SEC.
CONTRIBUTION	52.8	18.5	3.7

	AIR DRIED	DRY BASIS	D.A.F.
YIELD	74.50		
MOISTURE	.70		
ASH	9.50	9.57	
VOLATILE	22.50	22.66	25.06
F.C.	67.30	67.77	74.94
SULPHUR	.41		
PHOSPHORUS	.006		
F.S.I.	7.0		
SP.GR. (-60 MESH)	1.45		
HARDGROVE	82.90		

HEAD ANALYSIS - COMPOSITE RAW COAL

	AIR DRIED	DRY BASIS	D.A.F.
MOISTURE	.60		
ASH	21.20	21.33	
VOLATILE	22.40	22.54	28.64
F.C.	55.80	56.14	71.36
F.S.I.	2.50		
SULPHUR	.39		
SP.GR.	1.36		

DRILL HOLE #: 7611 SEAM: 1

FLOAT SINK ANALYSES

SIZE
3/8 X 28

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	60.30	6.80	60.30	6.80	6.00	6.50
1.50	10.90	16.10	71.20	8.22	1.00	6.00
1.60	7.60	23.40	78.80	9.69	1.00	5.50
1.80	4.00	32.40	82.80	10.78	1.00	4.50
2.60	17.20	76.60	100.00	22.10	0.	2.00

SIZE
28 X 100

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	30.70	4.30	30.70	4.30	7.50	8.50
1.50	29.60	8.20	60.30	6.21	5.50	8.00
1.60	13.20	13.90	73.50	7.59	1.00	7.50
1.80	6.80	23.30	80.30	8.92	1.00	7.50
2.60	19.70	52.80	100.00	17.57	0.	5.00

FROTH FLOATATION

SIZE
100 X 0

TIME.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
45.	2.60	6.70	2.60	6.70	8.00	8.00
45.	5.10	8.00	7.70	7.56	6.50	7.00
90.	24.40	11.80	32.10	10.78	5.50	6.00
135.	61.50	22.40	93.60	18.42	3.50	4.00
****	6.40	63.00	100.00	21.27	1.50	3.50

DENISON COAL LIMITED

DRILL HOLE #: 7611 SEAM: 1

1.5 FLOAT/SINK ANALYSIS OF SEAM COMPONENTS

COMPONENT LAB NO. 76-1163

			AIR DRIED BASIS				
	WT%	ASH%	MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	64.60	8.60	.70	24.80	65.90	.39	5.00
1.5 SINK	35.40	42.70					
TOTAL	100.00	20.70					
DRY BASIS		8.66		24.97	66.36		
D.A.F. BASIS		-		27.34	72.66		

COAL ANALYSIS PREPARED BY
WARNOCK HERSEY PROFESSIONAL SERVICES LTD.
SIGNED:

DENISON COAL LIMITED

PROJECT:SAXON AREA:SOUTH
DATE SAMPLED: OCT76 DATE ANALYSED: NOV76
DRILL HOLE #:7611 SEAM: 2
LAB COMPOSITE #: 76-1164-66

COMPOSITE DESCRIPTION

SAMPLE INTERVAL	:	
DIP	:	0
TRUE THICKNESS	:	5.13
COAL/COAL+ROCK RATIO	:	4.78/ 5.13
DRILL CORE RECOVERY	:	90.79%

SIMULATED PRODUCT

SIZE	3/8 X 28	28 X 100	100 X 0
CUTPOINT	SP.G. 1.6	SP.G. 1.8	90 SEC.
CONTRIBUTION	50.7	19.7	7.8

	AIR DRIED	DRY BASIS	D.A.F.
YIELD	78.20		
MOISTURE	.80		
ASH	7.40	7.46	
VOLATILE	23.30	23.49	25.38
F.C.	68.50	69.05	74.62
SULPHUR	.38		
PHOSPHORUS	.012		
F.S.I.	7.5		
SP'GR. (-60 MESH)	1.33		
HARDGROVE	87.20		

HEAD ANALYSIS - COMPOSITE RAW COAL

	AIR DRIED	DRY BASIS	D.A.F.
MOISTURE	.70		
ASH	19.80	19.94	
VOLATILE	21.90	22.05	27.55
F.C.	57.60	58.01	72.45
F.S.I.	4.50		
SULPHUR	.36		
SP.GR.	1.37		

DRILL HOLE #:7611 SEAM: 2

FLOAT SINK ANALYSES

SIZE
3/8 X 28

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	66.50	5.80	66.50	5.80	6.00	6.50
1.50	6.90	14.60	73.40	6.63	1.00	6.50
1.60	2.10	21.10	75.50	7.03	1.00	6.50
1.80	2.20	28.00	77.70	7.62	1.00	6.00
2.60	22.30	78.40	100.00	23.41	0.	3.50

SIZE
28 X 100

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	64.80	4.60	64.80	4.60	8.00	8.50
1.50	10.20	8.40	75.00	5.12	5.00	8.50
1.60	6.60	13.00	81.60	5.75	1.50	8.00
1.80	3.50	23.50	85.10	6.48	1.00	8.00
2.60	14.90	69.60	100.00	15.89	0.	6.00

FROTH FLOATATION

SIZE
100 X 0

TIME.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
45.	57.20	8.60	57.20	8.60	9.00	7.00
45.	13.80	17.20	71.00	10.27	5.00	7.00
90.	10.20	31.40	81.20	12.93	3.00	6.50
135.	9.40	40.00	90.60	15.73	2.00	6.00
****	9.40	60.20	100.00	19.91	1.00	5.00

DRILL HOLE #:7611 SEAM: 2

1.5 FLOAT/SINK ANALYSIS OF SEAM COMPONENTS

COMPONENT LAB NO. 76-1164

			AIR DRIED BASIS				
	WT%	ASH%	MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	75.60	5.50	.50	25.30	68.70	.43	7.00
1.5 SINK	24.40	26.30					
TOTAL	100.00	10.60					
DRY BASIS		5.53		25.43	69.05		
D.A.F. BASIS		-		26.91	73.09		

COMPONENT LAB NO. 76-1165

			AIR DRIED BASIS				
	WT%	ASH%	MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	17.70	7.50	.60	26.70	65.20	.48	7.50
1.5 SINK	82.30	69.90					
TOTAL	100.00	58.90					
DRY BASIS		7.55		26.86	65.59		
D.A.F. BASIS		-		29.05	70.95		

COMPONENT LAB NO. 76-1166

			AIR DRIED BASIS				
	WT%	ASH%	MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	82.00	7.70	.70	24.60	67.00	.34	6.00
1.5 SINK	18.00	28.00					
TOTAL	100.00	11.40					
DRY BASIS		7.75		24.77	67.47		
D.A.F. BASIS		-		26.86	73.14		

COAL ANALYSIS PREPARED BY
WARNOCK HERSEY PROFESSIONAL SERVICES LTD.
SIGNED:

DENISON COAL LIMITED

PROJECT:SAXON AREA:SOUTH
DATE SAMPLED: OCT76 DATE ANALYSED: NOV76
DRILL HOLE #:7611 SEAM: 4
LAB COMPOSITE #: 76-1167-69

COMPOSITE DESCRIPTION

SAMPLE INTERVAL	:	
DIP	:	0
TRUE THICKNESS	:	8.17
COAL/COAL+ROCK RATIO	:	7.80/ 8.17
DRILL CORE RECOVERY	:	71.29%

SIMULATED PRODUCT

SIZE	3/8 X 28	28 X 100	100 X 0
CUTPOINT	SP.G. 1.6	SP.G. 1.8	90 SEC.
CONTRIBUTION	51.5	16.5	7.9

	AIR DRIED	DRY BASIS	D.A.F.
YIELD	75.90		
MOISTURE	.90		
ASH	7.10	7.16	
VOLATILE	25.10	25.33	27.28
F.C.	66.90	67.51	72.72
SULPHUR	.36		
PHOSPHORUS	.009		
F.S.I.	7.5		
SP.GR. (-60 MESH)	1.32		
HARDGROVE	85.80		

HEAD ANALYSIS - COMPOSITE RAW COAL

	AIR DRIED	DRY BASIS	D.A.F.
MOISTURE	.70		
ASH	21.20	21.35	
VOLATILE	22.70	22.86	29.07
F.C.	55.40	55.79	70.93
F.S.I.	4.00		
SULPHUR	.32		
SP.GR.	1.39		

DRILL HOLE #:7611 SEAM: 4

FLOAT SINK ANALYSES

SIZE
3/8 X 28

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	64.00	4.60	64.00	4.60	6.00	6.50
1.50	4.80	15.40	68.80	5.35	4.00	6.50
1.60	4.40	25.60	73.20	6.57	1.00	6.50
1.80	5.80	34.00	79.00	8.58	1.00	6.00
2.60	21.00	74.90	100.00	22.51	0.	3.50

SIZE
28 X 100

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	67.10	4.30	67.10	4.30	8.50	8.50
1.50	4.20	10.00	71.30	4.64	5.50	8.50
1.60	6.20	15.60	77.50	5.51	3.50	8.00
1.80	4.80	24.60	82.30	6.63	1.00	8.00
2.60	17.70	61.00	100.00	16.25	0.	5.00

FROTH FLOATATION

SIZE
100 X 0

TIME.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
45.	54.80	9.60	54.80	9.60	5.50	6.50
45.	14.50	19.30	69.30	11.63	4.50	6.00
90.	12.90	28.40	82.20	14.26	4.00	5.00
135.	8.90	33.50	91.10	16.14	3.50	4.50
****	8.90	37.80	100.00	18.07	2.00	4.00

DRILL HOLE #:7611 SEAM: 4

1.5 FLOAT/SINK ANALYSIS OF SEAM COMPONENTS

COMPONENT LAB NO. 76-1167

			AIR DRIED BASIS				
	WT%	ASH%	MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	55.90	8.90	.70	27.50	62.90	.50	7.50
1.5 SINK	44.10	45.10					
TOTAL	100.00	24.90					
DRY BASIS		8.96		27.69	63.34		
D.A.F. BASIS		-		30.42	69.58		

COMPONENT LAB NO. 76-1168

			AIR DRIED BASIS				
	WT%	ASH%	MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	8.30	11.50	.80	25.90	61.80	.52	8.00
1.5 SINK	91.70	61.60					
TOTAL	100.00	57.40					
DRY BASIS		11.59		26.11	62.30		
D.A.F. BASIS		-		29.53	70.47		

COMPONENT LAB NO. 76-1169

			AIR DRIED BASIS				
	WT%	ASH%	MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	79.10	5.50	.80	26.30	67.70	.28	7.00
1.5 SINK	20.90	32.80					
TOTAL	100.00	11.20					
DRY BASIS		5.53		26.43	68.04		
D.A.F. BASIS		-		27.98	72.02		

COAL ANALYSIS PREPARED BY
WARNOCK HERSEY PROFESSIONAL SERVICES LTD.
SIGNED:

DENISON COAL LIMITED

PROJECT:SAXON AREA:EAST
DATE SAMPLED: OCT76 DATE ANALYSED: NOV76
DRILL HOLE #: 7012 SEAM: 1
LAB COMPOSITE #: 76-1172

COMPOSITE DESCRIPTION

SAMPLE INTERVAL :	
DIP :	0
TRUE THICKNESS :	6.73
COAL/COAL+ROCK RATIO :	5.31/ 6.73
DRILL CORE RECOVERY :	40.64%

SIMULATED PRODUCT

SIZE	3/8 X 28	28 X 100	100 X 0
CUTPOINT	SP.G. 1.6	SP.G. 1.8	90 SEC.
CONTRIBUTION	47.7	17.0	6.8

	AIR DRIED	DRY BASIS	D.A.F.
YIELD	71.50		
MOISTURE	.70		
ASH	7.30	7.35	
VOLATILE	22.30	22.46	24.24
F.C.	69.70	70.19	75.76
SULPHUR	.44		
PHOSPHORUS	.040		
F.S.I.	8.0		
SP'GR. (-60 MESH)	1.30		
HARDGROVE	0.		

HEAD ANALYSIS - COMPOSITE RAW COAL

	AIR DRIED	DRY BASIS	D.A.F.
MOISTURE	.50		
ASH	21.80	21.91	
VOLATILE	19.60	19.70	25.23
F.C.	58.10	58.39	74.77
F.S.I.	5.00		
SULPHUR	.43		
SP.GR.	1.40		

DRILL HOLE #: 7612 SEAM: 1

FLOAT SINK ANALYSES

SIZE
3/8 X 28

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	57.40	5.20	57.40	5.20	7.50	7.50
1.50	5.80	17.20	63.20	6.30	2.00	7.50
1.60	5.90	23.60	69.10	7.78	1.00	7.00
1.80	6.70	32.20	75.80	9.94	1.00	6.00
2.60	24.20	68.90	100.00	24.21	0.	4.00

SIZE
28 X 100

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	48.80	3.70	48.80	3.70	8.50	8.50
1.50	15.80	8.10	64.60	4.78	6.50	8.00
1.60	8.30	11.40	72.90	5.53	6.00	8.00
1.80	8.80	18.50	81.70	6.93	1.50	8.00
2.60	18.30	46.30	100.00	14.13	0.	6.00

FROTH FLOATATION

SIZE
100 X 0

TIME.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
45.	30.00	6.60	30.00	6.60	8.00	8.00
45.	22.50	11.10	52.50	8.53	7.00	7.50
90.	15.00	19.60	67.50	10.99	6.00	7.00
135.	7.50	26.70	75.00	12.56	4.00	6.00
****	25.00	28.90	100.00	16.64	3.00	6.00

DENISON COAL LIMITED

DRILL HOLE #: 7612 SEAM: 1

1.5 FLOAT/SINK ANALYSIS OF SEAM COMPONENTS

COMPONENT LAB NO. 76-1170

			AIR DRIED BASIS				
	WT%	ASH%	MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	45.40	11.60	.50	21.00	66.90	.33	2.00
1.5 SINK	54.60	41.50					
TOTAL	100.00	27.90					
DRY BASIS		11.66		21.11	67.24		
D.A.F. BASIS		-		23.89	76.11		

COMPONENT LAB NO. 76-1171

			AIR DRIED BASIS				
	WT%	ASH%	MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	16.80	15.60	.60	21.70	62.10	.38	4.50
1.5 SINK	83.20	46.00					
TOTAL	100.00	40.90					
DRY BASIS		15.69		21.83	62.47		
D'A.F. BASIS		-		25.89	74.11		

COMPONENT LAB NO. 76-1172

			AIR DRIED BASIS				
	WT%	ASH%	MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	60.60	6.30	.50	22.20	71.00	.42	7.50
1.5 SINK	39.40	45.10					
TOTAL	100.00	21.60					
DRY BASIS		6.33		22.31	71.36		
D.A.F. BASIS		-		23.82	76.18		

COAL ANALYSIS PREPARED BY
WARNOCK HERSEY PROFESSIONAL SERVICES LTD.
SIGNED:

DENISON COAL LIMITED

PROJECT:SAXON AREA:SOUTH
DATE SAMPLED: OCT76 DATE ANALYSED: NOV76
DRILL HOLE #: 7612 SEAM: 2
LAB COMPOSITE #: 76-1173

COMPOSITE DESCRIPTION

SAMPLE INTERVAL	:	
DIP	:	0
TRUE THICKNESS	:	0.
COAL/COAL+ROCK RATIO	:	0. / 0.
DRILL CORE RECOVERY	:	0. %

SIMULATED PRODUCT

SIZE	3/8 X 28	28 X 100	100 X 0
CUTPOINT	SP.G. 1.6	SP.G. 1.8	90 SEC.

DRILL HOLE #: 7612 SEAM: 2

DENISON COAL LIMITED

DRILL HOLE #: 7612 SEAM: 2

1.5 FLOAT/SINK ANALYSIS OF SEAM COMPONENTS

COMPONENT LAB NO. 76-1173

			AIR DRIED BASIS				
	WT%	ASH%	MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	27.20	7.20	.50	23.40	68.90	.65	8.00
1.5 SINK	72.80	65.00					
TOTAL	100.00	49.30					
DRY BASIS		7.24		23.52	69.25		
D.A.F. BASIS		-		25.35	74.65		

COAL ANALYSIS PREPARED BY
WARNOCK HERSEY PROFESSIONAL SERVICES LTD.
SIGNED:

DENISON COAL LIMITED

PROJECT:SAXON AREA:EAST
DATE SAMPLED: OCT76 DATE ANALYSED: NOV76
DRILL HOLE #: 7612 SEAM: 4
LAB COMPOSITE #: 76-1174

COMPOSITE DESCRIPTION

SAMPLE INTERVAL	:	
DIP	:	0
TRUE THICKNESS	:	2.77
COAL/COAL+ROCK RATIO	:	1.15/ 2.77
DRILL CORE RECOVERY	:	90.25%

SIMULATED PRODUCT

SIZE	3/8 X 28	28 X 100	100 X 0
CUTPOINT	SP.G. 1.6	SP.G. 1.8	90 SEC.
CONTRIBUTION	41.8	17.9	8.0

	AIR DRIED	DRY BASIS	D.A.F.
YIELD	67.70		
MOISTURE	.70		
ASH	6.90	6.95	
VOLATILE	22.20	22.36	24.03
F.C.	70.20	70.69	75.97
SULPHUR	.60		
PHOSPHORUS	.047		
F.S.I.	8.5		
SP.GR. (-60 MESH)	1.33		
HARDGROVE	0.		

HEAD ANALYSIS - COMPOSITE RAW COAL

	AIR DRIED	DRY BASIS	D.A.F.
MOISTURE	.50		
ASH	26.60	26.73	
VOLATILE	19.60	19.70	26.89
F.C.	53.30	53.57	73.11
F.S.I.	6.50		
SULPHUR	.54		
SP.GR.	1.45		

DRILL HOLE #: 7612 SEAM: 4

FLOAT SINK ANALYSES

SIZE
3/8 X 28

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	52.10	4.30	52.10	4.30	8.50	8.50
1.50	6.30	16.80	58.40	5.65	6.00	8.50
1.60	4.80	20.40	63.20	6.77	5.00	8.50
1.80	2.50	34.90	65.70	7.84	1.00	8.00
2.60	34.30	74.50	100.00	30.70	0.	5.50

SIZE
28 X 100

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	48.10	3.60	48.10	3.60	8.50	8.50
1.50	12.30	8.20	60.40	4.54	7.50	8.50
1.60	6.00	11.50	66.40	5.17	7.50	8.50
1.80	10.90	15.60	77.30	6.64	5.50	8.00
2.60	22.70	55.20	100.00	17.66	0.	7.00

FROTH FLOATATION

SIZE
100 X 0

TIME.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
45.	51.00	12.20	51.00	12.20	9.00	8.00
45.	16.30	26.10	67.30	15.57	6.00	7.50
90.	8.20	28.20	75.50	16.94	5.50	7.50
135.	6.10	31.60	81.60	18.03	5.00	7.50
****	18.40	32.00	100.00	20.60	5.00	7.00

DENISON COAL LIMITED

DRILL HOLE #: 7612 SEAM: 4

1.5 FLOAT/SINK ANALYSIS OF SEAM COMPONENTS

COMPONENT LAB NO. 76-1174

			AIR DRIED BASIS				
	WT%	ASH%	MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	52.10	6.20	.60	23.00	70.20	.54	8.00
1.5 SINK	47.90	51.20					
TOTAL	100.00	27.80					
DRY BASIS		6.24		23.14	70.62		
D.A.F. BASIS		-		24.68	75.32		

COMPONENT LAB NO. 76-1176

			AIR DRIED BASIS				
	WT%	ASH%	MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	11.50	8.70	.50	24.90	65.90	.80	8.50
1.5 SINK	88.50	67.90					
TOTAL	100.00	61.10					
DRY BASIS		8.74		25.03	66.23		
D.A.F. BASIS		-		27.42	72.58		

COAL ANALYSIS PREPARED BY
WARNOCK HERSEY PROFESSIONAL SERVICES LTD.
SIGNED:

DENISON COAL LIMITED

PROJECT:SAXON AREA:SOUTH
DATE SAMPLED: OCT76 DATE ANALYSED: NOV76
DRILL HOLE #: 7614 SEAM: 1
LAB COMPOSITE #: 76-1177

COMPOSITE DESCRIPTION

SAMPLE INTERVAL	:	
DIP	:	0
TRUE THICKNESS	:	0.
COAL/COAL+ROCK RATIO	:	0. / 0.
DRILL CORE RECOVERY	:	0. %

SIMULATED PRODUCT

SIZE	3/8 X 28	28 X 100	100 X 0
CUTPOINT	SP.G. 1.6	SP.G. 1.8	90 SEC.

DRILL HOLE #: 7614 SEAM: 1

DRILL HOLE #: 7614 SEAM: 1

1.5 FLOAT/SINK ANALYSIS OF SEAM COMPONENTS

COMPONENT LAB NO. 76-1177

	WT%	ASH%	AIR DRIED BASIS MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	67.00	8.60	.50	23.50	67.40	.35	3.50
1.5 SINK	33.00	44.60					
TOTAL	100.00	20.50					
DRY BASIS		8.64		23.62	67.74		
D.A.F. BASIS		-		25.85	74.15		

COMPONENT LAB NO. 76-1178

	WT%	ASH%	AIR DRIED BASIS MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	3.60	8.90	.10	25.60	64.80	1.19	8.00
1.5 SINK	96.40	83.00					
TOTAL	100.00	80.30					
DRY BASIS		8.96		25.78	65.26		
D.A.F. BASIS		-		28.32	71.68		

COMPONENT LAB NO. 76-1179

	WT%	ASH%	AIR DRIED BASIS MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	64.40	5.80	.60	25.70	67.90	.47	6.50
1.5 SINK	35.60	44.90					
TOTAL	100.00	19.70					
DRY BASIS		5.84		25.86	68.31		
D.A.F. BASIS		-		27.46	72.54		

COAL ANALYSIS PREPARED BY
WARNOCK HERSEY PROFESSIONAL SERVICES LTD.
SIGNED:

DENISON COAL LIMITED

PROJECT:SAXON AREA:SOUTH
DATE SAMPLED: OCT76 DATE ANALYSED: NOV76
DRILL HOLE #:7614 SEAM: 2
LAB COMPOSITE #: 76-1180

COMPOSITE DESCRIPTION

SAMPLE INTERVAL	:	
DIP	:	0
TRUE THICKNESS	:	3.83
COAL/COAL+ROCK RATIO	:	3.71/ 3.83
DRILL CORE RECOVERY	:	38.93%

SIMULATED PRODUCT

SIZE	3/8 X 28	28 X 100	100 X 0
CUTPOINT	SP.G. 1.6	SP.G. 1.8	90 SEC.
CONTRIBUTION	61.0	20.2	8.2

	AIR DRIED	DRY BASIS	D.A.F.
YIELD	89.40		
MOISTURE	.80		
ASH	7.00	7.06	
VOLATILE	22.90	23.08	24.84
F.C.	69.30	69.86	75.16
SULPHUR	.35		
PHOSPHORUS	.034		
F.S.I.	7.5		
SP.GR. (-60 MESH)	1.37		
HARDGROVE	88.80		

HEAD ANALYSIS - COMPOSITE RAW COAL

	AIR DRIED	DRY BASIS	D.A.F.
MOISTURE	.70		
ASH	12.70	12.79	
VOLATILE	21.90	22.05	25.29
F.C.	64.70	65.16	74.71
F.S.I.	5.50		
SULPHUR	.36		
SP.GR.	1.34		

DRILL HOLE #:7614 SEAM: 2

FLOAT SINK ANALYSES

SIZE
3/8 X 28

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	73.70	5.40	73.70	5.40	7.50	7.50
1.50	12.90	14.40	86.60	6.74	1.00	7.00
1.60	2.90	22.30	89.50	7.24	1.00	7.00
1.80	2.40	30.60	91.90	7.85	1.00	7.00
2.60	8.10	73.00	100.00	13.13	0.	5.00

SIZE
28 X 100

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	57.50	4.20	57.50	4.20	8.00	8.50
1.50	19.70	8.40	77.20	5.27	5.50	8.00
1.60	8.40	10.70	85.60	5.80	4.00	8.00
1.80	5.00	16.40	90.60	6.39	1.00	8.00
2.60	9.40	43.80	100.00	9.91	0.	6.00

FROTH FLOATATION

SIZE
100 X 0

TIME.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
45.	49.20	7.00	49.20	7.00	9.50	6.50
45.	23.70	11.60	72.90	8.50	5.00	6.50
90.	13.50	18.40	86.40	10.04	4.50	6.50
135.	6.80	25.20	93.20	11.15	3.50	6.00
****	6.80	32.20	100.00	12.58	3.00	6.00

DENISON COAL LIMITED

DRILL HOLE #:7614 SEAM: 2

1.5 FLOAT/SINK ANALYSIS OF SEAM COMPONENTS

COMPONENT LAB NO. 76-1180

			AIR DRIED BASIS				
	WT%	ASH%	MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	80.00	6.90	.50	24.50	68.10	.37	7.00
1.5 SINK	20.00	39.70					
TOTAL	100.00	13.50					
DRY BASIS		6.93		24.62	68.44		
D.A.F. BASIS		-		26.46	73.54		

COAL ANALYSIS PREPARED BY
WARNOCK HERSEY PROFESSIONAL SERVICES LTD.
SIGNED:

DENISON COAL LIMITED

PROJECT:SAXON AREA:SOUTH
DATE SAMPLED: OCT76 DATE ANALYSED: NOV76
DRILL HOLE #:7614 SEAM: 3
LAB COMPOSITE #: 76-1181

COMPOSITE DESCRIPTION

SAMPLE INTERVAL	:	
DIP	:	0
TRUE THICKNESS	:	2.34
COAL/COAL+ROCK RATIO	:	2.00/ 2.34
DRILL CORE RECOVERY	:	88.22%

SIMULATED PRODUCT

SIZE	3/8 X 28	28 X 100	100 X 0
CUTPOINT	SP.G. 1.6	SP.G. 1.8	90 SEC.
CONTRIBUTION	45.0	17.9	3.9

	AIR DRIED	DRY BASIS	D.A.F.
YIELD	66.90		
MOISTURE	.80		
ASH	9.30	9.38	
VOLATILE	22.80	23.08	25.47
F.C.	67.00	67.54	74.53
SULPHUR	.67		
PHOSPHORUS	.018		
F.S.I.	7.5		
SP.GR. (-60 MESH)	1.39		
HARDGROVE	95.60		

HEAD ANALYSIS - COMPOSITE RAW COAL

	AIR DRIED	DRY BASIS	D.A.F.
MOISTURE	.50		
ASH	23.20	23.32	
VOLATILE	20.20	20.30	26.47
F.C.	56.10	56.38	73.53
F.S.I.	4.50		
SULPHUR	.65		
SP.GR.	1.39		

DRILL HOLE #:7614 SEAM: 3

FLOAT SINK ANALYSES

SIZE
3/8 X 28

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	47.60	6.20	47.60	6.20	7.00	7.50
1.50	8.10	15.60	55.70	7.57	1.50	7.50
1.60	8.90	27.50	64.60	10.31	1.00	7.00
1.80	13.30	35.80	77.90	14.66	1.00	6.00
2.60	22.10	65.60	100.00	25.92	0.	4.00

SIZE
28 X 100

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	48.80	4.50	48.80	4.50	8.00	8.00
1.50	17.30	9.50	66.10	5.81	6.50	8.00
1.60	2.70	15.10	68.80	6.17	5.50	8.00
1.80	14.80	24.70	83.60	9.45	1.50	7.50
2.60	16.40	55.50	100.00	17.00	0.	6.00

FROTH FLOATATION

SIZE
100 X 0

TIME.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
45.	25.80	11.50	25.80	11.50	8.00	8.00
45.	8.00	18.00	33.80	13.04	6.00	7.50
90.	9.70	18.80	43.50	14.32	5.00	7.50
135.	12.90	20.00	56.40	15.62	5.00	7.00
****	43.60	23.50	100.00	19.06	4.50	5.50

DENISON COAL LIMITED

DRILL HOLE #:7614 SEAM: 3

1.5 FLOAT/SINK ANALYSIS OF SEAM COMPONENTS

COMPONENT LAB NO. 76-1181

			AIR DRIED BASIS				
	WT%	ASH%	MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	48.40	8.00	.50	24.10	67.40	.61	7.50
1.5 SINK	51.60	39.50					
TOTAL	100.00	24.20					
DRY BASIS		8.04		24.22	67.74		
D.A.F. BASIS		-		26.34	73.66		

COAL ANALYSIS PREPARED BY
WARNOCK HERSEY PROFESSIONAL SERVICES LTD.
SIGNED:

DENISON COAL LIMITED

PROJECT:SAXON AREA:SOUTH
DATE SAMPLED: OCT76 DATE ANALYSED: NOV76
DRILL HOLE #:7614 SEAM: 4
LAB COMPOSITE #: 76-1182

COMPOSITE DESCRIPTION

SAMPLE INTERVAL	:	
DIP	:	0
TRUE THICKNESS	:	7.13
COAL/COAL+ROCK RATIO	:	6.29/ 7.13
DRILL CORE RECOVERY	:	79.17%

SIMULATED PRODUCT

SIZE	3/8 X 28	28 X 100	100 X 0
CUTPOINT	SP.G. 1.6	SP.G. 1.8	90 SEC.
CONTRIBUTION	50.8	19.6	4.5

	AIR DRIED	DRY BASIS	D.A.F.
YIELD	74.90		
MOISTURE	1.00		
ASH	7.40	7.47	
VOLATILE	24.00	24.24	26.20
F.C.	67.60	68.28	73.80
SULPHUR	.34		
PHOSPHORUS	.015		
F.S.I.	6.5		
SP/GR. (-60 MESH)	1.34		
HARDGROVE	99.30		

HEAD ANALYSIS - COMPOSITE RAW COAL

	AIR DRIED	DRY BASIS	D.A.F.
MOISTURE	.50		
ASH	17.40	17.49	
VOLATILE	23.10	23.22	28.14
F.C.	59.00	59.30	71.86
F.S.I.	5.00		
SULPHUR	.38		
SP.GR.	1.36		

DRILL HOLE #:7614 SEAM: 4

FLOAT SINK ANALYSES

SIZE
3/8 X 28

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	65.00	5.20	65.00	5.20	7.00	7.00
1.50	6.80	16.50	71.80	6.27	3.00	6.50
1.60	4.60	24.20	76.40	7.35	1.50	6.50
1.80	5.50	36.70	81.90	9.32	1.00	5.50
2.60	18.10	69.10	100.00	20.14	0.	4.00

SIZE
28 X 100

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	64.80	4.20	64.80	4.20	6.50	7.50
1.50	9.90	9.10	74.70	4.85	4.50	7.50
1.60	6.10	13.10	80.80	5.47	4.00	7.00
1.80	5.80	23.80	86.60	6.70	1.50	7.00
2.60	13.40	57.60	100.00	13.52	0.	5.50

FROTH FLOATATION

SIZE
100 X 0

TIME.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
45.	30.60	7.60	30.60	7.60	7.50	7.50
45.	11.60	12.80	42.20	9.03	6.00	7.00
90.	6.60	17.20	48.80	10.13	5.50	7.00
135.	18.20	18.10	67.00	12.30	5.00	6.50
****	33.00	19.30	100.00	14.61	5.00	6.00

DENISON COAL LIMITED

DRILL HOLE #:7614 SEAM: 4

1.5 FLOAT/SINK ANALYSIS OF SEAM COMPONENTS

COMPONENT LAB NO. 76-1182

			AIR DRIED BASIS				
	WT%	ASH%	MOIST	VOL.	F'C.	S.	F.S.I.
1.5 FLOAT	66.20	6.50	.60	26.00	66.90	.32	7.00
1.5 SINK	33.80	39.80					
TOTAL	100.00	17.80					
DRY BASIS		6.54		26.16	67.30		
D.A.F. BASIS		-		27.99	72.01		

COAL ANALYSIS PREPARED BY
WARNOCK HERSEY PROFESSIONAL SERVICES LTD.
SIGNED:

DENISON COAL LIMITED

PROJECT:SAXON AREA:SOUTH
DATE SAMPLED: OCT76 DATE ANALYSED: NOV76
DRILL HOLE #:7615 SEAM: E
LAB COMPOSITE #: 76-1183

COMPOSITE DESCRIPTION

SAMPLE INTERVAL	:	
DIP	:	0
TRUE THICKNESS	:	1.32
COAL/COAL+ROCK RATIO	:	1.31/ 1.32
DRILL CORE RECOVERY	:	83.01%

SIMULATED PRODUCT

SIZE	3/8 X 28	28 X 100	100 X 0
CUTPOINT	SP.G. 1.6	SP.G. 1.8	90 SEC.
CONTRIBUTION	64.1	20.6	3.4

	AIR DRIED	DRY BASIS	D.A.F.
YIELD	88.10		
MOISTURE	1.00		
ASH	6.40	6.46	
VOLATILE	25.30	25.56	27.32
F.C.	67.30	67.98	72.68
SULPHUR	.66		
PHOSPHORUS	.042		
F.S.I.	8.0		
SP.GR. (-60 MESH)	1.32		
HARDGROVE	97.30		

HEAD ANALYSIS - COMPOSITE RAW COAL

	AIR DRIED	DRY BASIS	D.A.F.
MOISTURE	.50		
ASH	11.10	11.16	
VOLATILE	24.60	24.72	27.83
F.C.	63.80	64.12	72.17
F.S.I.	7.50		
SULPHUR	.66		
SP.GR.	1.30		

DENISON COAL LIMITED

DRILL HOLE #:7615 SEAM: 5

FLOAT SINK ANALYSES

SIZE
3/8 X 28

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	87.60	5.40	87.60	5.40	8.00	8.00
1.50	1.50	17.30	89.10	5.60	4.50	8.00
1.60	3.60	15.50	92.70	5.98	3.50	7.50
1.80	.70	23.60	93.40	6.12	1.00	7.50
2.60	6.60	67.20	100.00	10.15	0.	7.00

SIZE
28 X 100

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	59.80	4.30	59.80	4.30	8.00	8.50
1.50	21.70	6.70	81.50	4.94	7.50	8.50
1.60	6.40	8.80	87.90	5.22	7.00	8.50
1.80	3.90	16.50	91.80	5.70	4.00	8.50
2.60	8.20	43.80	100.00	8.82	0.	8.00

FROTH FLOATATION

SIZE
100 X 0

TIME.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
45.	22.50	6.30	22.50	6.30	8.50	8.50
45.	7.50	8.30	30.00	6.80	8.00	8.50
90.	10.00	10.50	40.00	7.72	8.00	8.50
135.	25.00	10.20	65.00	8.68	7.50	8.50
****	35.00	12.40	100.00	9.98	6.50	8.00

DRILL HOLE #:7615 SEAM: 5

1.5 FLOAT/SINK ANALYSIS OF SEAM COMPONENTS

COMPONENT LAB NO. 76-1183

			AIR DRIED BASIS				
	WT%	ASH%	MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	76.30	6.20	1.10	26.80	65.90	.68	8.00
1.5 SINK	23.70	23.80					
TOTAL	100.00	10.40					
DRY BASIS		6.27		27.10	66.63		
D.A.F. BASIS		-		28.91	71.09		

COAL ANALYSIS PREPARED BY
WARNOCK HERSEY PROFESSIONAL SERVICES LTD.
SIGNED:

DENISON COAL LIMITED

PROJECT: AREA:SOUTH
DATE SAMPLED: OCT76 DATE ANALYSED: NOV76
DRILL HOLE #:7615 SEAM: 10
LAB COMPOSITE #: 76-1184

COMPOSITE DESCRIPTION

SAMPLE INTERVAL	:	
DIP	:	0
TRUE THICKNESS	:	1.35
COAL/COAL+ROCK RATIO	:	1.35/ 1.35
DRILL CORE RECOVERY	:	69.74%

SIMULATED PRODUCT

SIZE	3/8 X 28	28 X 100	100 X 0
CUTPOINT	SP.G. 1.6	SP.G. 1.8	90 SEC.
CONTRIBUTION	58.2	27.3	9.3

	AIR DRIED	DRY BASIS	D.A.F.
YIELD	94.80		
MOISTURE	.80		
ASH	5.80	5.85	
VOLATILE	25.50	25.71	27.30
F.C.	67.90	68.45	72.70
SULPHUR	.71		
PHOSPHORUS	.054		
F.S.I.	7.5		
SP.GR. (-60 MESH)	1.31		
HARDGROVE	101.00		

HEAD ANALYSIS - COMPOSITE RAW COAL

	AIR DRIED	DRY BASIS	D.A.F.
MOISTURE	.50		
ASH	8.00	8.04	
VOLATILE	24.20	24.32	26.45
F.C.	67.30	67.64	73.55
F.S.I.	7.50		
SULPHUR	.77		
SP.GR.	1.27		

DRILL HOLE #:7615 SEAM: 10

FLOAT SINK ANALYSES

SIZE
3/8 X 28

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	78.20	4.10	78.20	4.10	6.00	6.50
1.50	14.20	14.70	92.40	5.73	1.00	6.50
1.60	3.40	17.70	95.80	6.15	1.00	6.50
1.80	1.40	31.70	97.20	6.52	1.00	6.50
2.60	2.80	54.90	100.00	7.88	0.	6.00

SIZE
28 X 100

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	65.10	3.50	65.10	3.50	8.00	8.50
1.50	18.80	7.40	83.90	4.37	5.00	8.00
1.60	7.70	10.90	91.60	4.92	3.00	8.00
1.80	4.00	15.50	95.60	5.37	1.50	8.00
2.60	4.40	40.60	100.00	6.92	0.	7.50

FROTH FLOATATION

SIZE
100 X 0

TIME.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
45.	71.40	6.70	71.40	6.70	7.50	7.50
45.	12.20	12.80	83.60	7.59	6.00	7.50
90.	4.10	15.70	87.70	7.97	5.50	7.50
135.	4.10	18.50	91.80	8.44	4.50	7.00
****	8.20	18.50	100.00	9.26	4.50	7.00

DRILL HOLE #:7615 SEAM: 10

1.5 FLOAT/SINK ANALYSIS OF SEAM COMPONENTS

COMPONENT LAB NO. 76-1184

			AIR DRIED BASIS				
	WT%	ASH%	MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	81.70	6.20	.80	26.40	66.60	.65	7.50
1.5 SINK	18.30	20.30					
TOTAL	100.00	8.80					
DRY BASIS		6.25		26.61	67.14		
D.A.F. BASIS		-		28.39	71.61		

COAL ANALYSIS PREPARED BY
WARNOCK HERSEY PROFESSIONAL SERVICES LTD.
SIGNED:

DENISON COAL LIMITED

PROJECT:SAXON AREA:WEST
DATE SAMPLED: OCT76 DATE ANALYSED: NOV76
DRILL HOLE #:7616 SEAM: 1
LAB COMPOSITE #: 76-1185

COMPOSITE DESCRIPTION

SAMPLE INTERVAL	:	
DIP	:	0
TRUE THICKNESS	:	1.82
COAL/COAL+ROCK RATIO	:	1.82/ 1.82
DRILL CORE RECOVERY	:	83.69%

SIMULATED PRODUCT

SIZE	3/8 X 28	28 X 100	100 X 0
CUTPOINT	SP.G. 1.6	SP.G. 1.8	90 SEC.
CONTRIBUTION	64.4	19.4	4.3

	AIR DRIED	DRY BASIS	D.A.F.
YIELD	88.10		
MOISTURE	.90		
ASH	7.00	7.06	
VOLATILE	24.30	24.52	26.38
F.C.	67.80	68.42	73.62
SULPHUR	.39		
PHOSPHORUS	.010		
F.S.I.	4.5		
SP.GR. (-60 MESH)	1.36		
HARDGROVE	81.90		

HEAD ANALYSIS - COMPOSITE RAW COAL

	AIR DRIED	DRY BASIS	D.A.F.
MOISTURE	1.00		
ASH	9.90	10.00	
VOLATILE	24.70	24.95	27.72
F.C.	64.40	65.05	72.28
F.S.I.	2.00		
SULPHUR	.36		
SP.GR.	1.31		

DRILL HOLE #:7616 SEAM: 1

FLOAT SINK ANALYSES

SIZE
3/8 X 28

SP.G.	WT%	ASH%	CUM. FLOATS WT%	ASH%	F.S.I.	CUM FSI
1.40	73.00	5.40	73.00	5.40	3.00	3.50
1.50	15.80	18.20	88.80	7.68	1.50	3.50
1.60	4.00	20.80	92.80	8.24	1.50	3.50
1.80	2.40	31.40	95.20	8.83	1.00	2.50
2.60	4.80	53.70	100.00	10.98	0.	1.50

SIZE
28 X 100

SP.G.	WT%	ASH%	CUM. FLOATS WT%	ASH%	F.S.I.	CUM FSI
1.40	47.90	4.60	47.90	4.60	5.00	5.50
1.50	29.80	7.60	77.70	5.75	3.50	5.50
1.60	10.70	10.60	88.40	6.34	1.50	5.00
1.80	4.50	16.40	92.90	6.82	1.00	5.00
2.60	7.10	39.00	100.00	9.11	0.	3.00

FROTH FLOATATION

SIZE
100 X 0

TIME.	WT%	ASH%	CUM. FLOATS WT%	ASH%	F.S.I.	CUM FSI
45.	18.40	7.90	18.40	7.90	5.00	5.00
45.	8.20	8.50	26.60	8.08	4.50	5.00
90.	22.40	9.60	49.00	8.78	4.50	5.00
135.	14.30	12.80	63.30	9.69	3.50	5.00
****	36.70	13.20	100.00	10.98	3.00	3.00

DENISON COAL LIMITED

DRILL HOLE #:7616 SEAM: 1

1.5 FLOAT/SINK ANALYSIS OF SEAM COMPONENTS

COMPONENT LAB NO. 76-1185

			AIR DRIED BASIS				
	WT%	ASH%	MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	79.00	7.10	.80	24.90	0.	.30	3.00
1.5 SINK	21.00	27.20					
TOTAL	100.00	11.30					
DRY BASIS		7.16		25.10	0.		
D.A.F. BASIS		-		27.04	0.		

COAL ANALYSIS PREPARED BY
WARNOCK HERSEY PROFESSIONAL SERVICES LTD.
SIGNED:

DENISON COAL LIMITED

PROJECT:SAXON AREA:WEST
DATE SAMPLED: OCT76 DATE ANALYSED: NOV76
DRILL HOLE #:7616 SEAM: 2
LAB COMPOSITE #: 76-1186

COMPOSITE DESCRIPTION

SAMPLE INTERVAL	:	
DIP	:	10
TRUE THICKNESS	:	2.27
COAL/COAL+ROCK RATIO	:	2.14/ 2.27
DRILL CORE RECOVERY	:	79.34%

SIMULATED PRODUCT

SIZE	3/8 X 28	28 X 100	100 X 0
CUTPOINT	SP.G. 1.6	SP.G. 1.8	90 SEC.
CONTRIBUTION	44.2	16.9	3.0

	AIR DRIED	DRY BASIS	D.A.F.
YIELD	64.10		
MOISTURE	1.00		
ASH	8.40	8.48	
VOLATILE	27.30	27.58	30.13
F.C.	63.30	63.94	69.87
SULPHUR	.54		
PHOSPHORUS	.007		
F.S.I.	8.0		
SP.GR. (-60 MESH)	1.38		
HARDGROVE	95.50		

HEAD ANALYSIS - COMPOSITE RAW COAL

	AIR DRIED	DRY BASIS	D.A.F.
MOISTURE	1.10		
ASH	27.30	27.60	
VOLATILE	24.00	24.27	33.52
F.C.	47.60	48.13	66.48
F.S.I.	6.50		
SULPHUR	.52		
SP.GR.	1.47		

DRILL HOLE #:7616 SEAM: 2

FLOAT SINK ANALYSES

SIZE
3/8 X 28

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	48.80	6.30	48.80	6.30	8.50	8.50
1.50	8.60	18.80	57.40	8.17	6.00	8.00
1.60	6.50	28.00	63.90	10.19	2.50	8.00
1.80	6.40	39.60	70.30	12.87	1.00	7.50
2.60	29.70	76.80	100.00	31.86	0.	6.00

SIZE
28 X 100

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	43.60	4.00	43.60	4.00	8.50	8.50
1.50	18.40	7.00	62.00	4.89	8.00	8.50
1.60	8.90	12.10	70.90	5.80	5.50	8.00
1.80	6.90	22.30	77.80	7.26	4.50	8.00
2.60	22.20	65.00	100.00	20.08	0.	7.00

FROTH FLOATATION

SIZE
100 X 0

TIME.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
45.	23.90	8.30	23.90	8.30	8.50	8.50
45.	8.70	14.00	32.60	9.82	7.50	8.50
90.	10.90	19.60	43.50	12.27	6.00	8.00
135.	17.40	26.20	60.90	16.25	5.50	8.00
****	39.10	30.70	100.00	21.90	4.00	7.50

DRILL HOLE #:7616 SEAM: 2

1.5 FLOAT/SINK ANALYSIS OF SEAM COMPONENTS

COMPONENT LAB NO. 76-1186

	WT%	ASH%	AIR DRIED BASIS MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	71.10	7.10	.60	28.60	63.70	.53	8.00
1.5 SINK	28.90	53.00					
TOTAL	100.00	20.40					
DRY BASIS		7.14		28.77	64.08		
D.A.F. BASIS		-		30.99	69.01		

COAL ANALYSIS PREPARED BY
WARNOCK HERSEY PROFESSIONAL SERVICES LTD.
SIGNED:

DENISON COAL LIMITED

PROJECT:SAXON AREA:WEST
DATE SAMPLED: OCT76 DATE ANALYSED: NOV76
DRILL HOLE #:7616 SEAM: 3
LAB COMPOSITE #: 76-1187

COMPOSITE DESCRIPTION

SAMPLE INTERVAL	:	
DIP	:	0
TRUE THICKNESS	:	3.04
COAL/COAL+ROCK RATIO	:	2.66/ 3.04
DRILL CORE RECOVERY	:	40.85%

SIMULATED PRODUCT

SIZE	3/8 X 28	28 X 100	100 X 0
CUTPOINT	SP.G. 1.6	SP.G. 1.8	90 SEC.
CONTRIBUTION	53.9	19.3	3.2

	AIR DRIED	DRY BASIS	D.A.F.
YIELD	76.40		
MOISTURE	.90		
ASH	6.70	6.76	
VOLATILE	26.60	26.84	28.79
F.C.	65.80	66.40	71.21
SULPHUR	.51		
PHOSPHORUS	.029		
F.S.I.	6.5		
SP.GR. (-60 MESH)	1.30		
HARDGROVE	86.50		

HEAD ANALYSIS - COMPOSITE RAW COAL

	AIR DRIED	DRY BASIS	D.A.F.
MOISTURE	1.10		
ASH	19.90	20.12	
VOLATILE	24.50	24.77	31.01
F.C.	54.50	55.11	68.99
F.S.I.	4.00		
SULPHUR	.38		
SP.GR.	1.36		

DRILL HOLE #:7616 SEAM: 3

FLOAT SINK ANALYSES

SIZE
3/8 X 28

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	63.30	4.30	63.30	4.30	5.00	5.50
1.50	9.30	12.00	72.60	5.29	3.50	5.50
1.60	4.80	22.40	77.40	6.35	1.00	5.00
1.80	2.90	38.50	80.30	7.51	1.00	5.00
2.60	19.70	79.00	100.00	21.59	0.	2.50

SIZE
28 X 100

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	42.10	3.40	42.10	3.40	7.50	7.50
1.50	31.10	4.70	73.20	3.95	5.50	7.00
1.60	6.60	9.90	79.80	4.44	5.00	7.00
1.80	6.30	18.00	86.10	5.44	2.50	7.00
2.60	13.90	60.10	100.00	13.03	0.	6.00

FROTH FLOATATION

SIZE
100 X 0

TIME.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
45.	11.10	7.90	23.90	8.30	7.50	7.50
45.	11.10	11.50	32.60	9.82	6.00	7.00
90.	17.80	12.70	43.50	12.27	5.50	6.50
135.	17.80	17.00	60.90	16.25	4.50	6.00
****	12.20	17.80	100.00	21.90	4.50	5.00

20

42.20

DRILL HOLE #:7616 SEAM: 3

1.5 FLOAT/SINK ANALYSIS OF SEAM COMPONENTS

COMPONENT LAB NO. 76-1187

			AIR DRIED BASIS				
	WT%	ASH%	MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	67.40	5.00	.70	28.00	66.30	.41	5.50
1.5 SINK	35.30	48.90					
TOTAL	100.00	20.50					
DRY BASIS		5.04		28.20	66.77		
D.A.F. BASIS		-		29.69	70.31		

COAL ANALYSIS PREPARED BY
WARNOCK HERSEY PROFESSIONAL SERVICES LTD.
SIGNED:

DENISON COAL LIMITED

PROJECT:SAXON AREA:SOUTH
DATE SAMPLED: OCT76 DATE ANALYSED: NOV76
DRILL HOLE #:7616 SEAM: 4
LAB COMPOSITE #: 76-1188

COMPOSITE DESCRIPTION
SAMPLE INTERVAL :
DIP : 0
TRUE THICKNESS : 0.
COAL/COAL+ROCK RATIO : 0. / 0.
DRILL CORE RECOVERY : 0. %

SIMULATED PRODUCT

SIZE	3/8 X 28	28 X 100	100 X 0
CUTPOINT	SP.G. 1.6	SP.G. 1.8	90 SEC.

DRILL HOLE #:7616 SEAM: 4

DENISON COAL LIMITED

DRILL HOLE #:7616 SEAM: 4

1.5 FLOAT/SINK ANALYSIS OF SEAM COMPONENTS

COMPONENT LAB NO. 76-1188

			AIR DRIED BASIS				
	WT%	ASH%	MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	46.20	4.30	.60	29.60	65.50	.45	7.00
1.5 SINK	53.80	64.70					
TOTAL	100.00	36.80					
DRY BASIS		4.33		29.78	65.90		
D.A.F. BASIS		-		31.13	68.87		

COAL ANALYSIS PREPARED BY
WARNOCK HERSEY PROFESSIONAL SERVICES LTD.
SIGNED:

DENISON COAL LIMITED

PROJECT:SAXON AREA:WEST
DATE SAMPLED: OCT76 DATE ANALYSED: NOV76
DRILL HOLE #:7616 SEAM: 5
LAB COMPOSITE #: 76-1189

COMPOSITE DESCRIPTION

SAMPLE INTERVAL	:	
DIP	:	0
TRUE THICKNESS	:	2.10
COAL/COAL+ROCK RATIO	:	.83/ 2.10
DRILL CORE RECOVERY	:	88.59%

SIMULATED PRODUCT

SIZE	3/8 X 28	28 X 100	100 X 0
CUTPOINT	SP.G. 1.6	SP.G. 1.8	90 SEC.
CONTRIBUTION	37.7	15.7	5.2

	AIR DRIED	DRY BASIS	D.A.F.
YIELD	58.60		
MOISTURE	1.00		
ASH	8.10	8.18	
VOLATILE	27.10	27.37	29.81
F.C.	63.80	64.44	70.19
SULPHUR	.54		
PHOSPHORUS	.015		
F.S.I.	7.5		
SP.GR. (-60 MESH)	1.35		
HARDGROVE	98.60		

HEAD ANALYSIS - COMPOSITE RAW COAL

	AIR DRIED	DRY BASIS	D.A.F.
MOISTURE	1.10		
ASH	33.20	33.57	
VOLATILE	23.20	23.46	35.31
F.C.	42.50	42.97	64.69
F.S.I.	5.00		
SULPHUR	.40		
SP.GR.	1.49		

DRILL HOLE #:7616 SEAM: 5

FLOAT SINK ANALYSES

SIZE
3/8 X 28

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	45.00	5.50	45.00	5.50	7.50	8.00
1.50	6.00	15.10	51.00	6.63	3.50	7.50
1.60	4.00	22.90	55.00	7.81	2.50	7.50
1.80	4.10	36.80	59.10	9.82	1.00	6.50
2.60	40.90	79.30	100.00	38.24	0.	4.00

SIZE
28 X 100

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	41.40	4.20	41.40	4.20	8.50	8.50
1.50	17.10	7.00	58.50	5.02	7.00	8.00
1.60	6.60	12.50	65.10	5.78	4.00	8.00
1.80	7.20	21.10	72.30	7.30	1.50	8.00
2.60	27.70	72.90	100.00	25.47	0.	6.00

FROTH FLOATATION

SIZE
100 X 0

TIME.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
45.	28.40	12.40	28.40	12.40	5.50	6.50
45.	10.80	23.20	39.20	15.38	5.00	6.00
90.	14.80	23.50	54.00	17.60	5.00	6.00
135.	17.60	32.60	71.60	21.29	3.50	6.00
****	28.40	41.40	100.00	27.00	3.00	5.00

DENISON COAL LIMITED

DRILL HOLE #:7616 SEAM: 5

1.5 FLOAT/SINK ANALYSIS OF SEAM COMPONENTS

COMPONENT LAB NO. 76-1189

			AIR DRIED BASIS				
	WT%	ASH%	MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	42.90	6.70	.60	28.80	63.90	.48	6.50
1.5 SINK	57.10	58.50					
TOTAL	100.00	36.30					
DRY BASIS		6.74		28.97	64.29		
D.A.F. BASIS		-		31.07	68.93		

COAL ANALYSIS PREPARED BY
WARNOCK HERSEY PROFESSIONAL SERVICES LTD.
SIGNED:

DENISON COAL LIMITED

PROJECT:SAXON AREA:SOUTH
DATE SAMPLED: OCT76 DATE ANALYSED: NOV76
DRILL HOLE #: 7616 SEAM: 5
LAB COMPOSITE #: 76-1190

COMPOSITE DESCRIPTION

SAMPLE INTERVAL	:	
DIP	:	0
TRUE THICKNESS	:	0.
COAL/COAL+ROCK RATIO	:	0. / 0.
DRILL CORE RECOVERY	:	0. %

SIMULATED PRODUCT

SIZE	3/8 X 28	28 X 100	100 X 0
CUTPOINT	SP.G. 1.6	SP.G. 1.8	90 SEC.

DRILL HOLE #: 7616 SEAM: 5

DENISON COAL LIMITED

DRILL HOLE #: 7616 SEAM: 5

1.5 FLOAT/SINK ANALYSIS OF SEAM COMPONENTS

COMPONENT LAB NO. 76-1190

		AIR DRIED BASIS					
	WT%	ASH%	MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	36.30	7.10	.80	30.80	61.30	.60	7.50
1.5 SINK	63.70	68.60					
TOTAL	100.00	46.30					
DRY BASIS		7.16		31.05	61.79		
D.A.F. BASIS		-		33.44	66.56		

COAL ANALYSIS PREPARED BY
WARNOCK HERSEY PROFESSIONAL SERVICES LTD.
SIGNED:

DENISON COAL LIMITED

PROJECT:SAXON AREA:EAST
DATE SAMPLED: OCT76 DATE ANALYSED: NOV76
DRILL HOLE #:7617 SEAM: 4
LAB COMPOSITE #: 76-1191

COMPOSITE DESCRIPTION

SAMPLE INTERVAL	:	
DIP	:	0
TRUE THICKNESS	:	6.53
COAL/COAL+ROCK RATIO	:	6.53/ 6.53
DRILL CORE RECOVERY	:	46.96%

SIMULATED PRODUCT

SIZE	3/8 X 28	28 X 100	100 X 0
CUTPOINT	SP.G. 1.6	SP.G. 1.8	90 SEC.
CONTRIBUTION	34.3	24.9	9.3

	AIR DRIED	DRY BASIS	D.A.F.
YIELD	68.50		
MOISTURE	.80		
ASH	8.60	8.67	
VOLATILE	21.00	21.17	23.18
F.C.	69.60	70.16	76.82
SULPHUR	.48		
PHOSPHORUS	.016		
F.S.I.	5.5		
SP.GR. (-60 MESH)	1.40		
HARDGROVE	98.90		

HEAD ANALYSIS - COMPOSITE RAW COAL

	AIR DRIED	DRY BASIS	D.A.F.
MOISTURE	.50		
ASH	24.90	25.03	
VOLATILE	19.00	19.10	25.47
F.C.	55.60	55.88	74.53
F.S.I.	1.50		
SULPHUR	.38		
SP.GR.	1.42		

DENISON COAL LIMITED

DRILL HOLE #:7617 SEAM: 4

FLOAT SINK ANALYSES

SIZE
3/8 X 28

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	42.90	5.60	42.90	5.60	5.00	5.00
1.50	8.80	16.00	51.70	7.37	1.00	5.00
1.60	7.20	24.20	58.90	9.43	1.00	4.50
1.80	9.60	33.00	68.50	12.73	1.00	3.50
2.60	31.50	65.70	100.00	29.42	0.	1.00

SIZE
28 X 100

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	52.70	4.00	52.70	4.00	7.50	7.50
1.50	15.70	8.20	68.40	4.96	4.00	7.00
1.60	7.60	15.30	76.00	6.00	1.50	7.00
1.80	5.80	28.20	81.80	7.57	1.00	6.50
2.60	18.20	58.40	100.00	16.82	0.	3.00

FROTH FLOATATION

SIZE
100 X 0

TIME.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
45.	55.60	11.60	55.60	11.60	6.00	6.00
45.	17.70	21.10	73.30	13.89	4.00	5.00
90.	8.90	27.70	82.20	15.39	3.50	5.00
135.	8.10	34.10	90.30	17.07	3.00	4.50
****	9.70	41.40	100.00	19.43	2.00	3.00

DENISON COAL LIMITED

DRILL HOLE #:7617 SEAM: 4

1.5 FLOAT/SINK ANALYSIS OF SEAM COMPONENTS

COMPONENT LAB NO. 76-1191

			AIR DRIED BASIS				
	WT%	ASH%	MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	49.10	7.00	.60	21.10	71.30	.60	6.00
1.5 SINK	50.90	39.80					
TOTAL	100.00	23.70					
DRY BASIS		7.04		21.23	71.73		
D.A.F. BASIS		-		22.84	77.16		

COAL ANALYSIS PREPARED BY
WARNOCK HERSEY PROFESSIONAL SERVICES LTD.
SIGNED:

DENISON COAL LIMITED

PROJECT:SAXON AREA:SOUTH
DATE SAMPLED: OCT76 DATE ANALYSED: NOV76
DRILL HOLE #:7618 SEAM: 4
LAB COMPOSITE #: 76-1192-94

COMPOSITE DESCRIPTION

SAMPLE INTERVAL	:	
DIP	:	0
TRUE THICKNESS	:	7.27
COAL/COAL+ROCK RATIO	:	6.90/ 7.27
DRILL CORE RECOVERY	:	99.00%

SIMULATED PRODUCT

SIZE	3/8 X 28	28 X 100	100 X 0
CUTPOINT	SP.G. 1.6	SP.G. 1.8	90 SEC.
CONTRIBUTION	49.7	18.7	2.6

	AIR DRIED	DRY BASIS	D.A.F.
YIELD	71.00		
MOISTURE	.90		
ASH	7.50	7.57	
VOLATILE	24.50	24.72	26.75
F.C.	67.10	67.71	73.25
SULPHUR	.55		
PHOSPHORUS	.024		
F.S.I.	7.5		
SP.GR. (-60 MESH)	1.33		
HARDGROVE	94.10		

HEAD ANALYSIS - COMPOSITE RAW COAL

	AIR DRIED	DRY BASIS	D.A.F.
MOISTURE	.60		
ASH	15.50	15.59	
VOLATILE	24.00	24.14	28.61
F.C.	59.90	60.26	71.39
F.S.I.	6.00		
SULPHUR	.35		
SP.GR.	1.35		

DRILL HOLE #:7618 SEAM: 4

FLOAT SINK ANALYSES

SIZE
3/8 X 28

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	60.40	5.00	60.40	5.00	7.50	7.50
1.50	5.60	19.10	66.00	6.20	2.50	7.50
1.60	6.30	23.40	72.30	7.70	1.50	7.00
1.80	8.40	35.70	80.70	10.61	1.00	6.50
2.60	19.30	67.50	100.00	21.59	0.	5.50

SIZE
28 X 100

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	66.00	4.50	66.00	4.50	8.00	8.50
1.50	6.20	9.70	72.20	4.95	6.50	8.50
1.60	4.70	15.50	76.90	5.59	2.50	8.50
1.80	4.60	23.40	81.50	6.60	1.00	8.00
2.60	18.50	51.60	100.00	14.92	0.	6.50

FROTH FLOATATION

SIZE
100 X 0

TIME.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
45.	17.80	10.70	17.80	10.70	6.00	6.50
45.	5.50	16.70	25.30	12.00	5.50	6.50
90.	6.60	16.30	31.90	12.89	5.50	6.50
135.	35.20	18.10	67.10	15.62	5.00	6.00
****	32.90	21.60	100.00	17.59	4.00	5.50

DRILL HOLE #:7618 SEAM: 4

1.5 FLOAT/SINK ANALYSIS OF SEAM COMPONENTS

COMPONENT LAB NO. 76-1192

	WT%	ASH%	AIR DRIED BASIS MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	68.70	7.10	.70	27.40	64.80	.59	8.00
1.5 SINK	31.30	35.10					
TOTAL	100.00	15.90					
DRY BASIS		7.15		27.59	65.26		
D.A.F. BASIS		-		29.72	70.28		

COMPONENT LAB NO. 76-1193

	WT%	ASH%	AIR DRIED BASIS MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	4.80	11.00	.70	26.00	62.30	.51	8.00
1.5 SINK	95.20	68.00					
TOTAL	100.00	65.30					
DRY BASIS		11.08		26.18	62.74		
D.A.F. BASIS		-		29.45	70.55		

COMPONENT LAB NO. 76-1194

	WT%	ASH%	AIR DRIED BASIS MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	70.10	6.50	.60	28.80	66.10	.31	5.50
1.5 SINK	29.90	29.30					
TOTAL	100.00	13.30					
DRY BASIS		6.54		26.96	66.50		
D.A.F. BASIS		-		28.85	71.15		

COAL ANALYSIS PREPARED BY
WARNOCK HERSEY PROFESSIONAL SERVICES LTD.
SIGNED:

DENISON COAL LIMITED

PROJECT:SAXON AREA:EAST
DATE SAMPLED: OCT76 DATE ANALYSED: NOV76
DRILL HOLE #:7619 SEAM: 1
LAB COMPOSITE #: 76-11100

COMPOSITE DESCRIPTION

SAMPLE INTERVAL	:	
DIP	:	0
TRUE THICKNESS	:	5.07
COAL/COAL+ROCK RATIO	:	4.85/ 5.07
DRILL CORE RECOVERY	:	59.61%

SIMULATED PRODUCT

SIZE	3/8 X 28	28 X 100	100 X 0
CUTPOINT	SP.G. 1.6	SP.G. 1.8	90 SEC.
CONTRIBUTION	64.0	22.3	3.9

	AIR DRIED	DRY BASIS	D.A.F.
YIELD	90.20		
MOISTURE	.60		
ASH	6.00	6.04	
VOLATILE	20.40	20.52	21.84
F.C.	73.00	73.44	78.16
SULPHUR	.49		
PHOSPHORUS	.030		
F.S.I.	7.5		
SP.GR. (-60 MESH)	1.30		
HAPDGROVE	92.70		

HEAD ANALYSIS - COMPOSITE RAW COAL

	AIR DRIED	DRY BASIS	D.A.F.
MOISTURE	.50		
ASH	8.20	8.24	
VOLATILE	20.70	20.80	22.67
F.C.	70.60	70.95	77.33
F.S.I.	6.00		
SULPHUR	.36		
SP.GR.	1.26		

DRILL HOLE #:7619 SEAM: 1

FLOAT SINK ANALYSES

SIZE
3/8 X 28

SP.G.	WT%	ASH%	CUM. FLOATS WT%	ASH%	F.S.I.	CUM FSI
1.40	86.40	4.90	86.40	4.90	7.50	7.50
1.50	6.50	13.70	92.90	5.52	4.00	7.50
1.60	3.10	22.40	96.00	6.06	2.00	7.00
1.80	1.80	31.80	97.80	6.53	1.00	6.50
2.60	2.20	59.10	100.00	7.69	0.	6.00

SIZE
28 X 100

SP.G.	WT%	ASH%	CUM. FLOATS WT%	ASH%	F.S.I.	CUM FSI
1.40	77.30	3.90	77.30	3.90	8.00	8.00
1.50	7.60	7.60	84.90	4.23	6.50	8.00
1.60	6.40	10.80	91.30	4.69	2.50	7.50
1.80	3.00	18.10	94.30	5.12	1.00	7.50
2.60	5.70	38.50	100.00	7.02	0.	6.50

FROTH FLOATATION

SIZE
100 X 0

TIME.	WT%	ASH%	CUM. FLOATS WT%	ASH%	F.S.I.	CUM FSI
45.	10.10	7.00	10.10	7.00	7.50	7.50
45.	13.80	7.20	23.90	7.12	7.50	7.50
90.	16.50	8.50	40.40	7.68	7.50	7.50
135.	23.80	8.30	64.20	7.91	7.50	7.50
****	35.80	10.50	100.00	8.84	7.00	7.50

DRILL HOLE #:7619 SEAM: 1

1.5 FLOAT/SINK ANALYSIS OF SEAM COMPONENTS

COMPONENT LAB NO. 76-11100

			AIR DRIED BASIS				
	WT%	ASH%	MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	86.80	5.60	.50	20.70	73.20	.40	6.50
1.5 SINK	13.20	28.70					
TOTAL	100.00	8.60					
DRY BASIS		5.63		20.80	73.57		
D.A.F. BASIS		-		22.04	77.96		

COMPONENT LAB NO. 76-11101

			AIR DRIED BASIS				
	WT%	ASH%	MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	9.30	8.60	.50	20.10	70.80	.40	4.50
1.5 SINK	90.70	65.50					
TOTAL	100.00	60.20					
DRY BASIS		8.64		20.20	71.16		
D.A.F. BASIS		-		22.11	77.89		

COMPONENT LAB NO. 76-11102

			AIR DRIED BASIS				
	WT%	ASH%	MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	67.20	7.50	.40	20.10	72.00	.40	7.50
1.5 SINK	32.80	41.20					
TOTAL	100.00	18.60					
DRY BASIS		7.53		20.18	72.29		
D.A.F. BASIS		-		21.82	78.18		

COAL ANALYSIS PREPARED BY
WARNOCK HERSEY PROFESSIONAL SERVICES LTD.
SIGNED:

DENISON COAL LIMITED

PROJECT:SAXON AREA:EAST
DATE SAMPLED: OCT76 DATE ANALYSED: NOV76
DRILL HOLE #:7619 SEAM: 2
LAB COMPOSITE #: 76-11104

COMPOSITE DESCRIPTION

SAMPLE INTERVAL	:	
DIP	:	0
TRUE THICKNESS	:	3.17
COAL/COAL+ROCK RATIO	:	2.70/ 3.17
DRILL CORE RECOVERY	:	70.98%

SIMULATED PRODUCT

SIZE	3/8 X 28	28 X 100	100 X 0
CUTPOINT	SP.G. 1.6	SP.G. 1.8	90 SEC.
CONTRIBUTION	49.3	16.0	6.7

	AIR DRIED	DRY BASIS	D.A.F.
YIELD	72.00		
MOISTURE	.80		
ASH	6.60	6.65	
VOLATILE	22.40	22.58	24.19
F.C.	70.20	70.77	75.81
SULPHUR	.60		
PHOSPHORUS	.011		
F.S.I.	7.0		
SP.GR. (-60 MESH)	1.32		
HARDGROVE	91.50		

HEAD ANALYSIS - COMPOSITE RAW COAL

	AIR DRIED	DRY BASIS	D.A.F.
MOISTURE	.60		
ASH	19.60	19.72	
VOLATILE	17.90	18.01	22.43
F.C.	61.90	62.27	77.57
F.S.I.	4.50		
SULPHUR	.42		
SP.GR.	1.39		

DRILL HOLE #:7619 SEAM: 2

FLOAT SINK ANALYSES

SIZE
3/8 X 28

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	56.40	4.20	56.40	4.20	7.00	7.00
1.50	7.70	13.00	64.10	5.26	2.50	6.50
1.60	7.00	23.10	71.10	7.01	1.00	6.50
1.80	7.60	36.60	78.70	9.87	1.00	5.50
2.60	21.30	72.10	100.00	23.13	0.	3.00

SIZE
28 X 100

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	52.60	3.60	52.60	3.60	7.50	7.50
1.50	16.90	6.30	69.50	4.26	7.00	7.50
1.60	5.70	13.80	75.20	4.98	2.50	7.50
1.80	8.40	22.70	83.60	6.76	1.00	7.50
2.60	16.40	57.60	100.00	15.10	0.	6.00

FROTH FLOATATION

SIZE
100 X 0

TIME.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
45.	40.80	8.10	40.80	8.10	7.50	7.50
90.	11.80	17.20	52.60	10.14	5.00	7.00
135.	6.60	20.70	59.20	11.32	3.50	7.00
180.	29.00	26.20	88.20	16.21	2.50	5.50
****	11.80	37.10	100.00	18.68	2.00	5.00

DENISON COAL LIMITED

DRILL HOLE #:7619 SEAM: 2

1.5 FLOAT/SINK ANALYSIS OF SEAM COMPONENTS

COMPONENT LAB NO. 76-11103

			AIR DRIED BASIS				
	WT%	ASH%	MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	16.70	11.10	.50	20.80	67.60	.38	4.50
1.5 SINK	83.30	68.00					
TOTAL	100.00	58.50					
DRY BASIS		11.16		20.90	67.94		
D.A.F. BASIS		-		23.53	76.47		

COMPONENT LAB NO. 76-11104

			AIR DRIED BASIS				
	WT%	ASH%	MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	63.90	6.20	.90	21.20	71.70	.56	7.00
1.5 SINK	36.10	47.90					
TOTAL	100.00	21.20					
DRY BASIS		6.26		21.39	72.35		
D'A.F. BASIS		-		22.82	77.18		

COAL ANALYSIS PREPARED BY
WARNOCK HERSEY PROFESSIONAL SERVICES LTD.
SIGNED:

DENISON COAL LIMITED

PROJECT:SAXON AREA:EAST
DATE SAMPLED: OCT76 DATE ANALYSED: NOV76
DRILL HOLE #: 7619 SEAM: 4
LAB COMPOSITE #: 76-11105-07

COMPOSITE DESCRIPTION

SAMPLE INTERVAL	:	
DIP	:	0
TRUE THICKNESS	:	4.95
COAL/COAL+ROCK RATIO	:	3.80/ 4.95
DRILL CORE RECOVERY	:	21.01%

SIMULATED PRODUCT

SIZE	3/8 X 28	28 X 100	100 X 0
CUTPOINT	SP.G. 1.6	SP.G. 1.8	90 SEC.
CONTRIBUTION	62.1	19.0	5.8

	AIR DRIED	DRY BASIS	D.A.F.
YIELD	86.90		
MOISTURE	.70		
ASH	6.40	6.45	
VOLATILE	22.40	22.56	24.11
F.C.	70.50	71.00	75.89
SULPHUR	.47		
PHOSPHORUS	.025		
F.S.I.	8.0		
SP.GR. (-60 MESH)	1.30		
HARDGROVE	97.70		

HEAD ANALYSIS - COMPOSITE RAW COAL

	AIR DRIED	DRY BASIS	D.A.F.
MOISTURE	.40		
ASH	11.00	11.04	
VOLATILE	21.20	21.29	23.93
F.C.	67.40	67.67	76.07
F.S.I.	7.00		
SULPHUR	.46		
SP.GR.	1.29		

DRILL HOLE #: 7619 SEAM: 4

FLOAT SINK ANALYSES

SIZE
3/8 X 28

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	78.40	4.70	78.40	4.70	7.50	7.50
1.50	6.60	15.10	85.00	5.51	2.50	7.50
1.60	5.60	22.00	90.60	6.53	1.00	7.00
1.80	3.20	30.20	93.80	7.33	1.00	7.00
2.60	6.20	66.10	100.00	10.98	0.	6.00

SIZE
28 X 100

SP.G.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
1.40	67.00	3.70	67.00	3.70	8.50	8.50
1.50	11.80	5.70	78.80	4.00	8.00	8.50
1.60	6.30	9.20	85.10	4.38	6.00	8.50
1.80	2.30	18.60	87.40	4.76	1.00	8.50
2.60	12.60	39.00	100.00	9.07	0.	8.00

FROTH FLOATATION

SIZE
100 X 0

TIME.	WT%	ASH%	CUM. FLOATS WT%	CUM. FLOATS ASH%	F.S.I.	CUM FSI
45.	34.00	6.20	34.00	6.20	8.50	8.50
45.	12.80	10.10	46.80	7.27	7.00	8.50
90.	12.90	13.30	59.70	8.57	6.50	8.00
135.	14.90	14.90	74.60	9.83	6.00	7.50
****	25.40	15.90	100.00	11.38	5.00	7.00

DRILL HOLE #: 7619 SEAM: 4

1.5 FLOAT/SINK ANALYSIS OF SEAM COMPONENTS

COMPONENT LAB NO. 76-11105

	WT%	ASH%	AIR DRIED BASIS MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	70.00	5.50	.60	22.20	71.70	.49	7.50
1.5 SINK	30.00	29.90					
TOTAL	100.00	12.80					
DRY BASIS		5.53		22.33	72.13		
D.A.F. BASIS		-		23.64	76.36		

COMPONENT LAB NO. 76-11106

	WT%	ASH%	AIR DRIED BASIS MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	70.20	7.60	.50	21.10	70.80	.40	4.50
1.5 SINK	29.80	24.00					
TOTAL	100.00	12.50					
DRY BASIS		7.64		21.21	71.16		
D.A.F. BASIS		-		22.96	77.04		

COMPONENT LAB NO. 76-11107

	WT%	ASH%	AIR DRIED BASIS MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	77.10	4.70	.60	23.40	71.30	.47	8.00
1.5 SINK	22.90	22.50					
TOTAL	100.00	8.80					
DRY BASIS		4.73		23.54	71.73		
D.A.F. BASIS		-		24.71	75.29		

COMPONENT LAB NO. 78-11108

	WT%	ASH%	AIR DRIED BASIS MOIST	VOL.	F.C.	S.	F.S.I.
1.5 FLOAT	71.50	4.20	.50	20.80	74.50	.52	7.50
1.5 SINK	28.50	16.70					
TOTAL	100.00	7.80					
DRY BASIS		4.22		20.90	74.87		
D.A.F. BASIS		-		21.83	78.17		

COAL ANALYSIS PREPARED BY
WARNOCK HERSEY PROFESSIONAL SERVICES LTD.
SIGNED:

APPENDIX IX

ADIT WASHABILITY TESTS

FROM ADITS 76-4-1, 76-4-2 & 76-4-4

BY

BIRTLEY ENGINEERING

GWS

BIRTLEY ENGINEERING (CANADA) LTD.

Subsidiary of Great West Steel Industries Ltd.

5112-3rd ST. S.E., CALGARY, ALBERTA T2H 1J6 PHONE 403-253-3719

REPORT NO. CS-0099

A REPORT TO DENISON MINES LTD.

OF THE RESULTS OF WASHABILITY TESTS

AND PILOT PLANT WASHING OF BULK

SAMPLES FROM ADITS 76-4-1, 76-4-2

AND 76-4-4 OF THE SAXON PROJECT

December, 1976

Submitted by:

Frank J. Horvat

Frank J. Horvat
Manager
Birtley Engineering (Canada) Ltd.
Coal Science & Minerals Testing Division

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GWS

BIRTLEY ENGINEERING (CANADA) LTD.

Subsidiary of Great West Steel Industries Ltd.

5112-3rd ST. S.E., CALGARY, ALBERTA T2H 1J6 PHONE 403-253-3719

A REPORT TO DENISON MINES LTD. OF THE RESULTS OF WASHABILITY TESTS AND PILOT PLANT WASHING OF BULK SAMPLES FROM ADITS 76-4-1, 76-4-2 AND 76 - 4 - 4 OF THE SAXON PROJECT.

INTRODUCTION

The bulk samples were delivered to the Coal Science and Minerals Testing plant site in Calgary, Alberta, in 45 gallon drums on November 8, 18, and 29, 1976.

Adit 76-4-1 was received as two lots, the second of which was required to be screened at a 2" top size and the 2" oversize rock hand picked, weighed and discarded. The remainder of lot 2 was combined with lot 1 and processed according to the work flowsheet (FIG. 1), with part II deleted, as were the other two adits.

SAMPLE PREPARATION

The detailed homogenizing procedures (pages 4, 5, and FIG.2) were used throughout the program. These procedures ensured that, within practical limits, representative samples of raw coal would be extracted for washability tests and the feed to the plant would be uniform and unsegregated as to ash content.

The value of the procedures related to the homogenizing of the clean coal products is evident when results of the analysis of the "quartered" piles are compared with the analysis of the individual

packed barrels, in that the results are quite concordant. However, the intended purpose of sampling the "quartered" piles to detect segregation, was not accomplished as the method used really sampled the total pile rather than the increments making up these conical heaps.

The variations in ash levels throughout are not far removed from the A.S.T.M. allowable analytical error of .2%. This is commendable considering that the sampling method and the quantity of samples was necessarily restricted when sampling the 3/4" top-size coal from a pile or a barrel with "probe" sampler as opposed to coning and quartering.

The analyses did show that no gross variation in ash content and F.S.I. existed between the barrels of clean coal packed for shipment, which was the primary intent of the exercise.

WASHABILITY

The washability test results for each Adit are appropriately tabulated with the classical curves being drawn for each size fraction. The laboratory scale froth flotation test results complete the program.

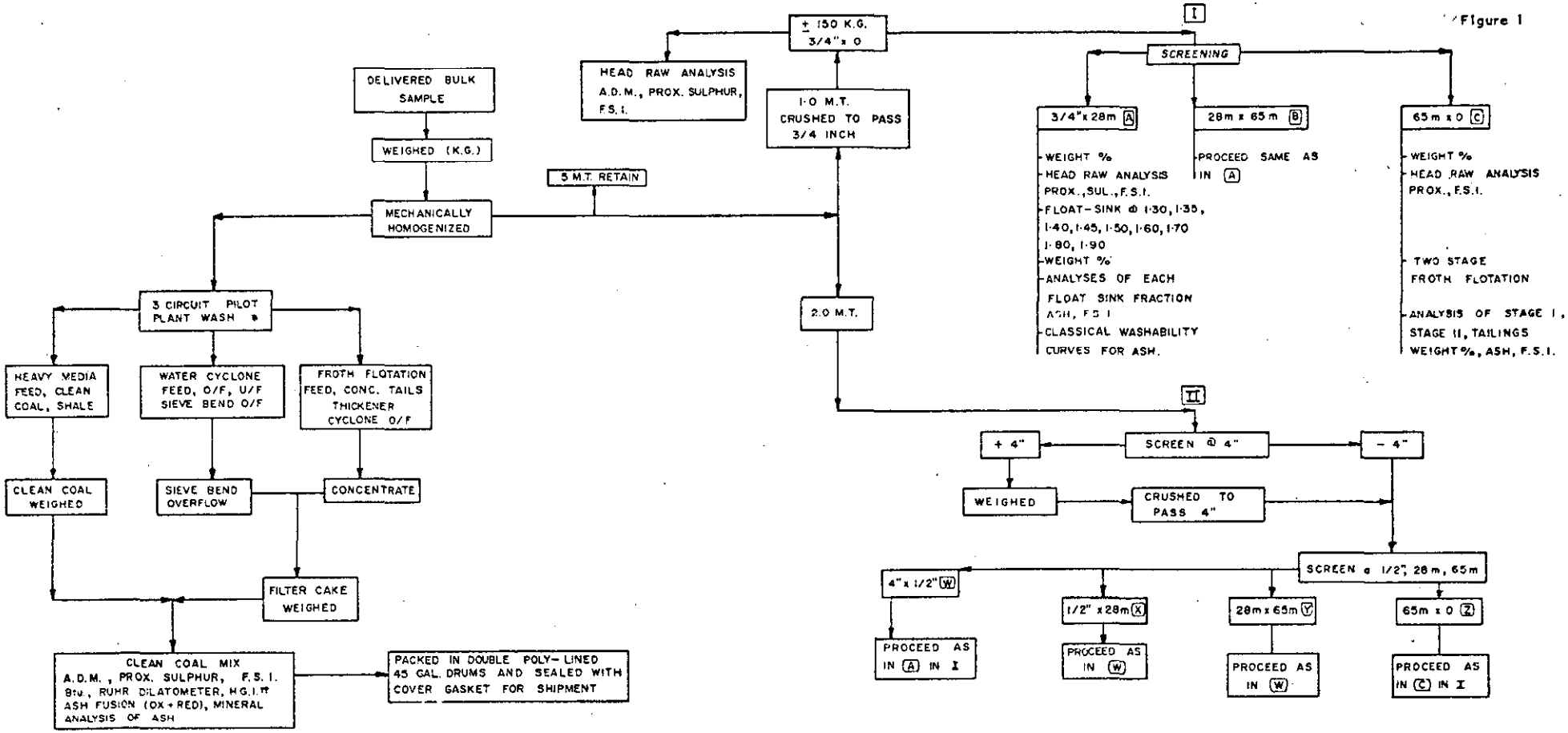
PLANT WASHING

The pilot plant flowsheet (FIG. 3) and a brief resume clarify the plant operation. The plant balance sheet summarizes schematically the wash results with individual performance for the

heavy media, two-stage water cyclone and froth flotation circuits being detailed on respective forms.

The clean coal analyses, the clean coal make-up and its disposition finalize the report.

Figure 1



* ALL PLANT SAMPLES ANALYSED FOR ASH AND F.S.I.

‡ HARDGROVE GRINDABILITY INDEX.

BIRTLEY ENGINEERING (CANADA) LTD.

WORK FLOWSHEET FOR DENISON MINES LTD. (MAY 1976)

Date: 18 May 76

Drawn: Y. Barker

DENISON MINES LTD.

SPECIAL PROCEDURES FOR HANDLING OF BULK SAMPLES

November 5th, 1976

1. Head Raw Preparation

Upon reception of the coal in steel 45 gallon drums, the coal will be dumped into a steel mixing plate, 32' x 60'. This coal will then be subjected to a preliminary mixing by means of a small front end loader and placed in a conical heap in the centre of the plate. (The bucket capacity is about 1 1/2 drums of coal).

Four sampling points (quadrants) will be selected along the perimeter of this central pile identified for clarity as points #1, #2, #3 and #4, (see attached sketch) from which will be withdrawn successive bucket loads of coal and placed in "quarter" conical piles relative to the sampling points. However, to minimize the possibility of bias, on the second sampling pass, coal withdrawn from point #1 will be placed in pile #2, coal withdraw from point #2 will be placed in pile #3 and so on until the central pile has been transferred into the 4 quartered piles.

Now the coal from the quartered piles is returned to the central location by taking bucket loads successively from piles A, B, C, and D to reform the central conical heap. Four (4) sampling points are relocated and the whole procedure is repeated three (3) more times after which a head raw sample is extracted of approximately 1.5 tons by taking small increments from each of the "quartered" piles of such quantity that four (4) increments will fill two (2) 45 gallon drums using a portable loading hopper. This hopper is designed in such a way that two (2) barrels are filled simultaneously by means of a split chute.

2. Clean Coal Preparation (Clean Mix)

After a preliminary moisture reduction of the heavy media clean coal and the fines filter cake to the desired moisture levels, the products will be homogenized as follows:-

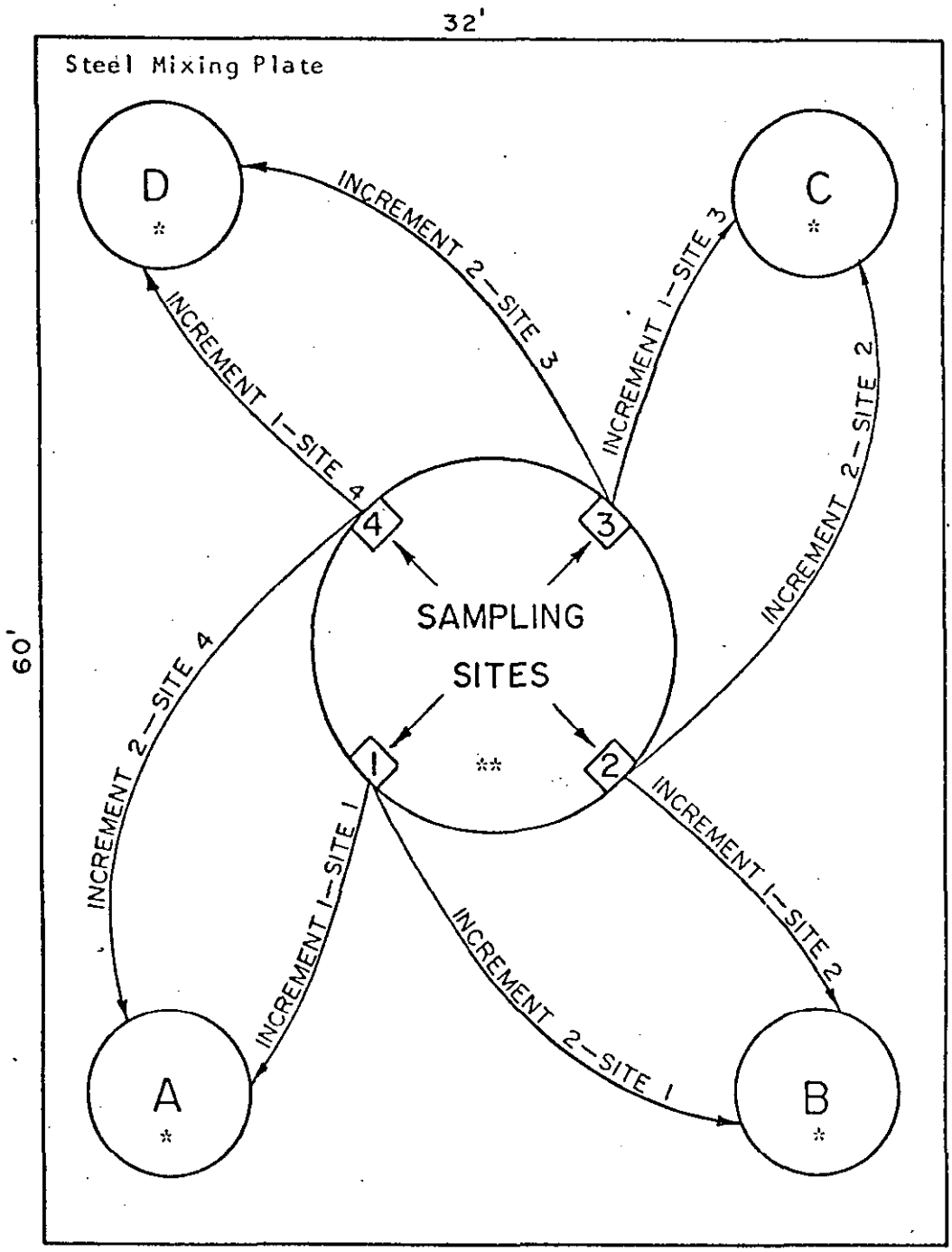
The heavy media clean coal will be spread in a thin layer on the meticulously cleaned mixing plate. The filter cake will be "seeded" over the surface of the coarse coal by means of the front end loader. This total mass will be subjected to a preliminary mixing routine and a central conical heap formed.

From this point on the procedures outlined for homogenizing the raw coal will be strictly followed with the provision for a "probe" sample of approximately 20 kg being extracted from each "quarter" pile after each of the four quartering steps. This means that a total of 16 samples will be extracted and identified as 1-A, 1-B, 1-C, 1-D for step 1; 2-A, 2-B, 2-C, 2-D for step 2 and so on up to step 4. 320 kg of coal would be removed from the total at this stage. These samples are to be prepared for ash and F.S.I. analysis to check for variations in the coal as the homogenization progresses.

From the final four quarters, double poly lined barrels are filled by exactly the same procedure as outlined for the raw coal sample extraction. The coal is tamped into the barrels so that each barrel will contain about 180 kg with moisture included. Each barrel is now sampled by means of the "probe" sampler and the coal prepared and analysed for ash and F.S.I. These samples are identified as Barrel #1, Barrel #2, etc. for reference purposes. An additional 600 kg of coal will be removed from the total at this stage.

Finally the plastic liners will be tied off and an identifying tag affixed inside the drum. The lid, with a gasket, will be firmly attached to seal the barrel and the barrel will be stencilled as to contents and destination.

SCHEMATIC OF RAW AND CLEAN COAL HOMOGENIZATION



* "Quarter" Piles ** Central Pile

Continue moving increments until all of the central pile is transferred to the "Quarter" piles A,B,C, and D, i.e. increment 3, site 1 to C, increment 3, site 2 to D, increment 3, site 3 to A, increment 3, site 4 to B etc.

Figure 2

DENISON MINES LTD.
NOVEMBER 1976

MARCH, 1976

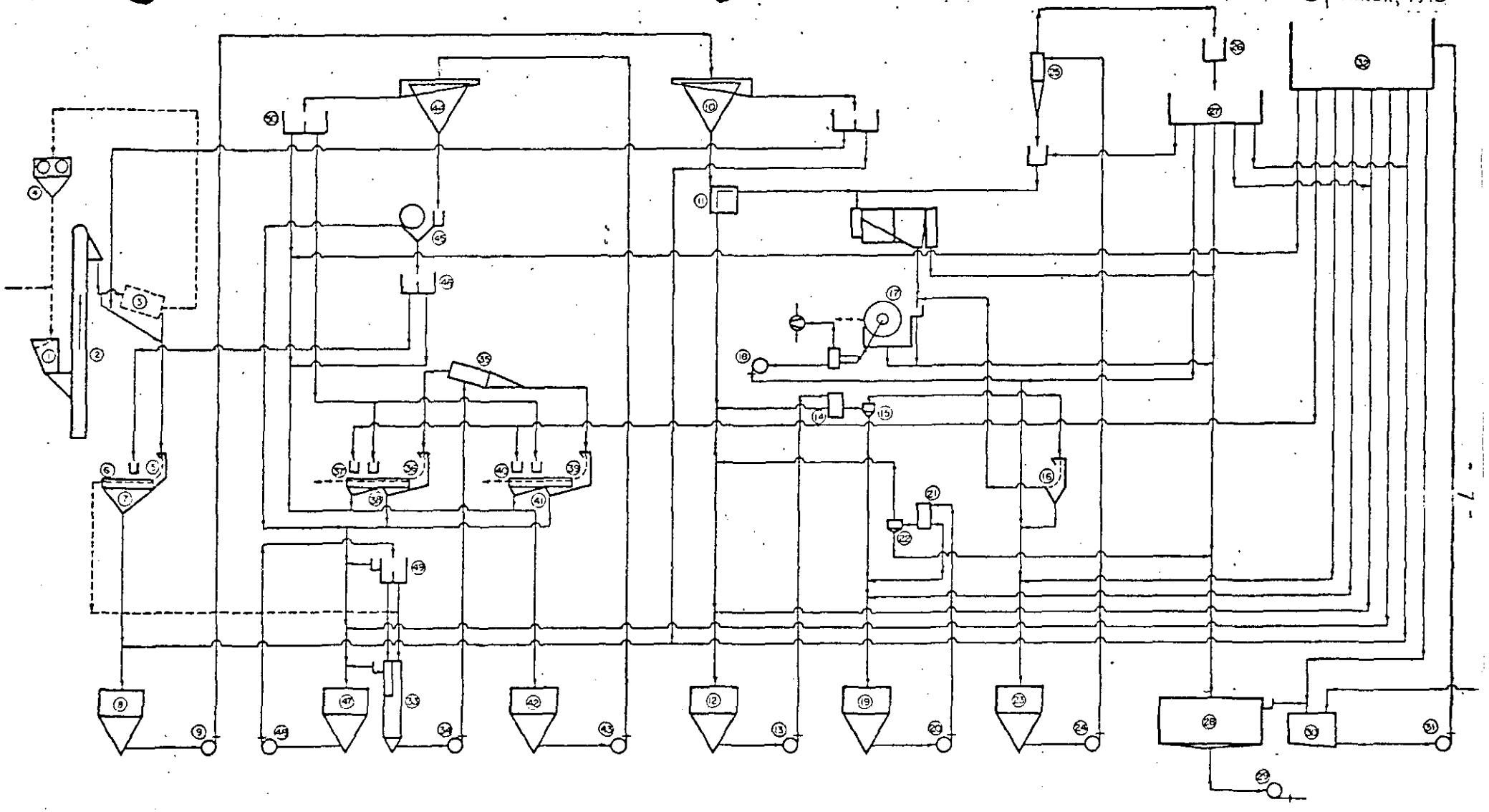


Figure 3

- 7 -

1. Feed Bin
2. Elevator
3. Rotary Screen
4. Jaw Crusher
5. Sieve Bend
6. Desliming Screen
7. Underflow Collector
8. 28M-O Raw Coal Collection Tank
9. Pump
10. Settling Cone
11. Diverter
12. Primary Water Only Cyclone Feed Tank
13. Pump
14. Distributor
15. Primary Water Only Cyclone
16. Sieve Bend
17. Vacuum Filter
18. Filtrate Water Pump
19. Secondary Water Only Cyclone Feed Tank
20. Pump
21. Distributor
22. Secondary Water Only Cyclone
23. Thickening Cyclone Feed Tank
24. Pump
25. Thickening Cyclone
26. Overflow Distributor
27. Head Box
28. Thickener
29. Waste Disposal Pump
30. Clarified Water Collection Tank
31. Clarified Water Pump
32. Clarified Water Head Box
33. Cyclone Feed Tank
34. Pump
35. O.S.M. Cyclone
36. Sieve Bend
37. C.C. Drain and Rinse Screen
38. Underflow Collector
39. Sieve Bend
40. Discard Drain and Rinse Screen
41. Underflow Collector
42. Dilute Medium Tank
43. Pump
44. Settling Cone
45. Magnetic Separator
46. Splitter Box
47. Correct Medium Tank
48. Pump
49. Distribution Box
50. Splitter Box

TEST PLANT FLOWSHEET

COAL SCIENCE & MINERALS TESTING

DIV OF BIRTLEY ENGINEERING (CANADA) LTD, CALGARY, ALTA.

PILOT PLANT WASHING

Figure 1 is the flowsheet of the Coal Science & Minerals Testing pilot plant. Raw coal is dumped by a front end loader into a hopper at ground level, which has a heavy 2" square screen installed to ensure that the bucket elevator receiving the feed does not handle oversize material. The 2" oversize coal is crushed manually to pass the 2" screen, but "rock" is collected in barrels and reported as shale of the heavy media circuit. The bucket elevator discharges the minus 2" feed at a rate of 5 to 7 metric tons per hour into a rotary 3/4" screen of the third deck. The 3/4" oversize falls via a chute into a 5" x 8" jaw crusher where it is crushed to minus 3/4" and is recycled through the feed system. The 3/4" x 0 screen underflow is washed with water onto a 28 mesh sieve bend and slot screen for desliming.

The 3/4" x 28 mesh coal is the feed to the 14" DSM Heavy Media cone on the seond deck. The slurry of coal and correct medium is pumped to the cyclone from the mixing tube at a pressure of 9 to 10 psi. The overflow and underflow products are discharged onto a common, but split 28 mesh slot screen preceded by a 28 mesh sieve bend where the magnetite is washed off into the correct and dilute medium tanks directly below. Additional clean spray water and baffles across the clean coal stream ensure that a minimum of magnetite is retained on the clean coal product. The clean coal and shale are collected in barrels by means of individual chutes for weighing.

The dilute medium is pumped to a thickening cone on the third deck from where it is fed to a 30" magnetic separator. The recovered magnetite is sluiced back to the correct medium tank. The specific gravity of the medium is monitored manually, using a density meter, and adjusted for loss by adding cyclone grade magnetite directly to the correct medium tank.

The 28 mesh x 0 coal collected in the slimes tank ground level, is pumped to the thickening cone on the third deck. From this point it can be fed directly to the froth circuit, or as is usual, to the two-stage water-only cyclone system.

Coal to the 6" DSM water-only primary cyclone is pumped at a pulp density of 10% to 20% from the cyclone feed rank at a pressure of 20 psi, and a flow rate of 85 Imperial gallons per minute. A mechancially adjustable vortex finder facilitates settings for a desired ash content. The primary cyclone underflow with make-up water is fed to a similarily adjustable secondary 4" unit. The overflow is directed back to the primary cyclone feed tank with the underflow being the waste product.

The waste product is routed to the static thickener while the primary underflow is fed by gravity to a rapped 0.25 mm sieve bend. The seive bend is the water-only cyclone product at approximately 65 mesh oversize, and directed to the Eimco disc filter for dewatering.

The sieve bend underflow passes by gravity to the thickening cyclone feed tank, from where it is pumped to the 20° - 8" cyclone. This thickening cone serves a dual purpose: 1) it removes undesireable -325 mesh slimes from the flotation feed, 2) it provides a feed of proper density (15% - 25% solids) to the froth cells. The overflow with the -325 mesh slimes flows to the static thickener.

The flotation circuit consists of two (2) Birtley-Humboldt Multi-Wobble Cells in series. Since these cells were installed on September 12th, 1976, there appears to be a marked improvement in tailings ash contents, indicating excellent recovery of froth product. A rotary reagent feeder introduces 4:1 Kerosene:Methylisobutylcarbinol into the circuit at the feed entry point for better conditioning.

The tailings join the water-only cyclone underflow and thickener cone overflow to form the thickener tails. The froth enters the Eimco disc filter and is dewatered along with the sieve bend overflow to form the filter cake or fines product. This and the heavy media clean coal are combined to form the clean coal product or clean mix.

Each circuit is sampled for feed, product and waste in addition to the 0.25 mm sieve bend overflow and underflow, filter cake, thickening cyclone overflow and underflow and analysed for ash content. The primary water-only cyclone overflow product is screened at 65 mesh as the plus 65 mesh figure is used to calculate the yield of the water-only cyclone circuit.

The heavy media clean coal is "drained" of extraneous moisture before being combined and homogenized with the partially dried filter cake. This partial drying is accomplished by spreading the fines product on a pad, heated electrically at 20°C, and reducing the moisture content from 22 - 28% to less than 12%.

RESULTS

ADIT# 76 - 4 - 1

LAB.# 7880/81

CLIENT: DENISON MINES LTD.

SAMPLE: Bulk Sample Adit 76-4-1, Lots 1 & 2

LAB. NO.: 7881

TABLE 1

SIZE AND RAW ANALYSES									
SIZE FRACTION	WT. %	ASH %	R.M.%	V.M.%	F.C.%	S.%	F.S.I.	CUMULATIVE WT.%	CUMULATIVE ASH %
3/4" x 28M	80.8	33.9	0.3	16.1	49.7	0.47	3	80.8	33.9
28M x 65M	8.2	25.0	0.4	17.5	57.1	0.57	6	89.0	33.1
65M x 0	11.0	24.2	0.4	17.7	57.7	0.58	4 1/2	100.0	32.1
HEAD RAW	100.0	32.3	0.4	16.5	50.8	0.49	3 1/2	%adl	= 2.4%

Lot 2/Bulk 2 is 23.1% of total adit sample

Lot 2/Bulk 2 oversize (+2") rock - 3.1% of total adit sample

TABLE 2

FROTH FLOTATION TEST						
SIZE PRODUCT	65M x 0					PARAMETERS
	WT. %	ASH %	F.S.I.	CUMULATIVE WT. %	CUMULATIVE ASH %	
STAGE I	74.8	12.6	7 1/2	74.8	12.6	Pulp Density = 10% Dosage = 0.48#/Ton Reagent = 4:1 - K:MIBC Conditioning Time - 1 Minute Stage I & II = 1st & 2nd Min. Froth Conc. @ 1st & 2nd Min.
STAGE II	4.5	30.8	2 1/2	79,3	13.6	
TAILS	20.7	62.2	0	100.0	23.7	

CLIENT: DENISON MINES LTD.

SAMPLE: Bulk Sample - Adit 76-4-1, Lots 1 & 2

LAB. NO.: 7881

TABLE 3

SINK-FLOAT ANALYSES						
S. G. FRACTION	3/4" x 28M					
				CUMULATIVE		
	WT. %	ASH %	F.S.I.	WT. %	ASH %	F.S.I.
- 1.30	20.5	2.4	9+	20.5	2.4	9 +
1.30 - 1.35	18.7	5.3	5 1/2	39.2	3.8	9
1.35 - 1.40	8.3	9.4	2 1/2	47.5	4.8	8
1.40 - 1.45	3.4	14.0	2 1/2	50.9	5.4	7 1/2
1.45 - 1.50	3.3	18.7	2	54.2	6.2	7
1.50 - 1.60	4.8	26.2	1 1/2	59.0	7.8	6
1.60 - 1.70	3.9	34.6	1	62.9	9.5	5 1/2
1.70 - 1.80	3.3	42.3	1	66.2	11.1	5 1/2
1.80 - 1.90	2.7	51.0	1	68.9	12.7	5
+ 1.90	31.1	82.8	0	100.0	34.5	3 1/2

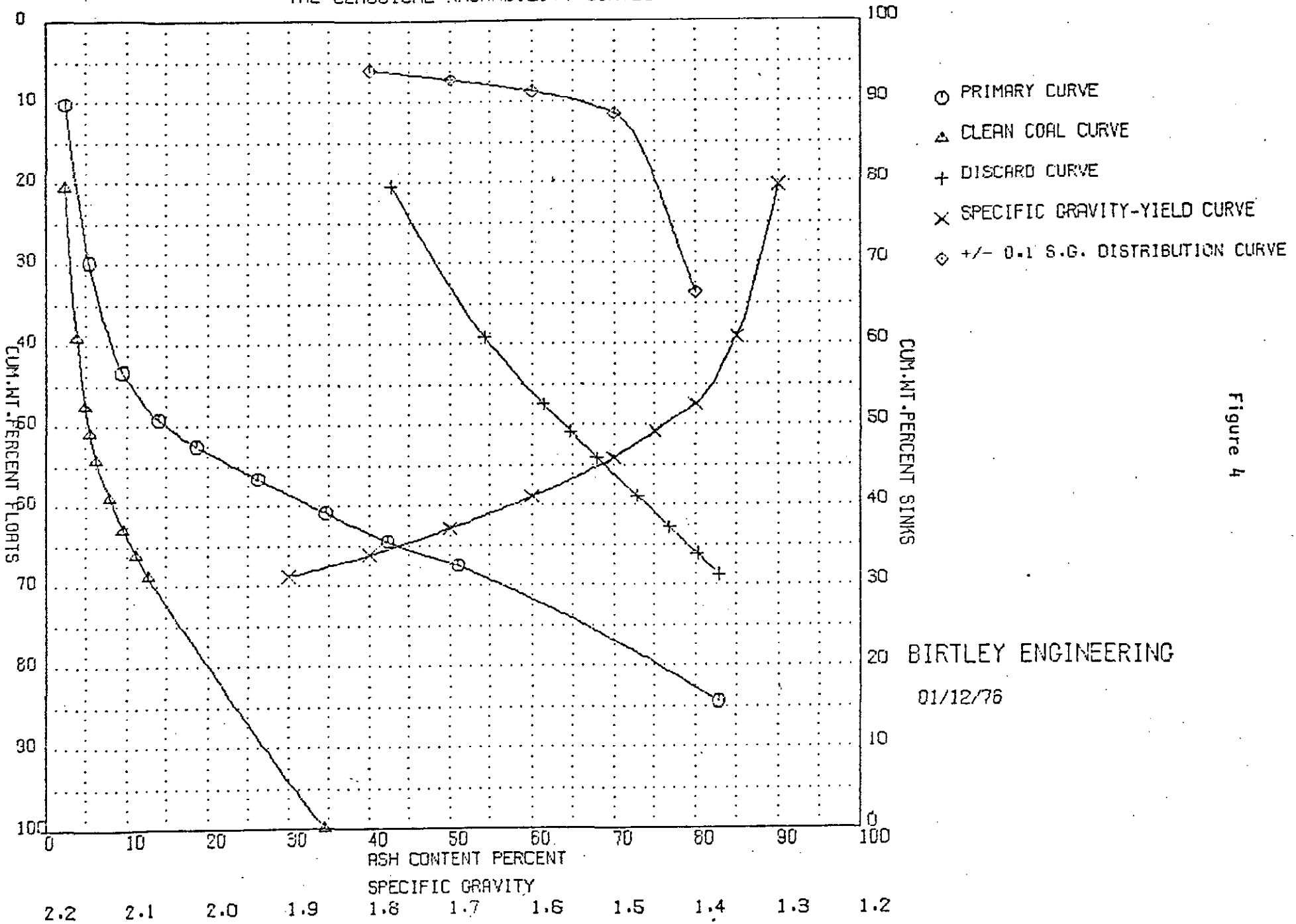
TABLE 4

SINK-FLOAT ANALYSES						
S. G. FRACTION	28M x 65M					
				CUMULATIVE		
	WT. %	ASH %	F.S.I.	WT. %	ASH %	F.S.I.
- 1.30	29.5	2.2	9+	29.5	2.2	9 +
1.30 - 1.35	17.1	4.7	7 1/2	46.6	3.1	9
1.35 - 1.40	10.4	9.2	3	57.0	4.7	8 1/2
1.40 - 1.45	4.4	14.2	1 1/2	61.4	4.9	8 1/2
1.45 - 1.50	3.9	19.2	1	65.3	5.8	8
1.50 - 1.60	6.1	27.5	1	71.4	7.6	8
1.60 - 1.70	4.3	34.5	1	75.7	9.2	7 1/2
1.70 - 1.80	3.2	42.8	1	78.9	10.5	7 1/2
1.80 - 1.90	2.4	50.5	1/2	81.3	11.7	7
+ 1.90	18.7	79.9	0	100.0	24.5	5

Figure 4

DENISON MINES LTD. ADIT 76-4-1 LAB. 7881 LOTS 1 + 2 3/4' X 28M

THE CLASSICAL WASHABILITY CURVES



BIRTLEY ENGINEERING

01/12/76

DENISON MINES LTD. ADIT 76-4-1, LOTS 1 & 2 LAB.7881 3/4" X 28M

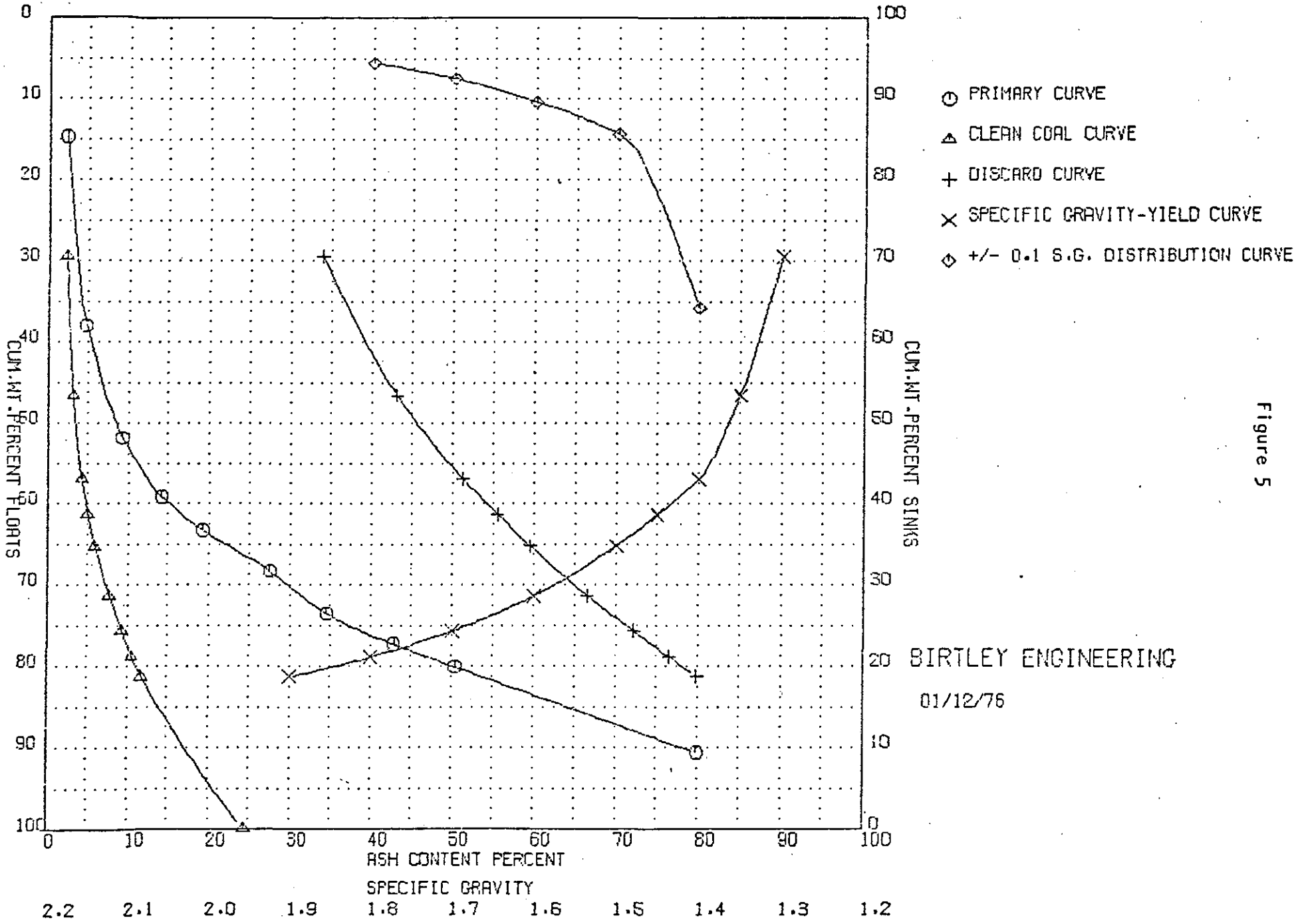
--DIRECT--					--CUM FLOATS--			--CUM SINKS--		+-0.1 DISTR	
S.G.	WT>	ASH>	WT> ASH TT	CUM WT> ASHTT	WT>	ASH>	SINK WT ASH>	WT>	ASH>	S.G.	WT>
1	2	3	4	5	6	7	8	9	10	11	12
1.30	20.50	2.40	.49	.49	20.50	2.40	34.00	79.50	42.76	1.30	0.00
1.35	18.70	5.30	.99	1.48	39.20	3.78	33.00	60.80	54.28	1.40	33.70
1.40	8.30	9.40	.78	2.26	47.50	4.76	32.22	52.50	61.38	1.50	11.50
1.45	3.40	14.00	.48	2.74	50.90	5.38	31.75	49.10	64.66	1.60	8.70
1.50	3.30	18.70	.62	3.36	54.20	6.19	31.13	45.80	67.97	1.70	7.20
1.60	4.80	26.20	1.26	4.61	59.00	7.82	29.87	41.00	72.86	1.80	6.00
1.70	3.90	34.60	1.35	5.96	62.90	9.48	28.52	37.10	76.88	1.90	0.00
1.80	3.30	42.30	1.40	7.36	66.20	11.12	27.13	33.80	80.26	2.00	0.00
1.90	2.70	51.00	1.38	8.74	68.90	12.68	25.75	31.10	82.80	2.10	0.00
9.99	31.10	82.80	25.75	34.49	100.00	34.49	0.00	.00	0.00	2.20	0.00

BIRTLEY ENGINEERING
02/12/76

Figure 5

DENISON MINES LTD. ADIT 76-4-1 LAB. 7881 LOTS 1 + 2 28M X 65M

THE CLASSICAL WASHABILITY CURVES

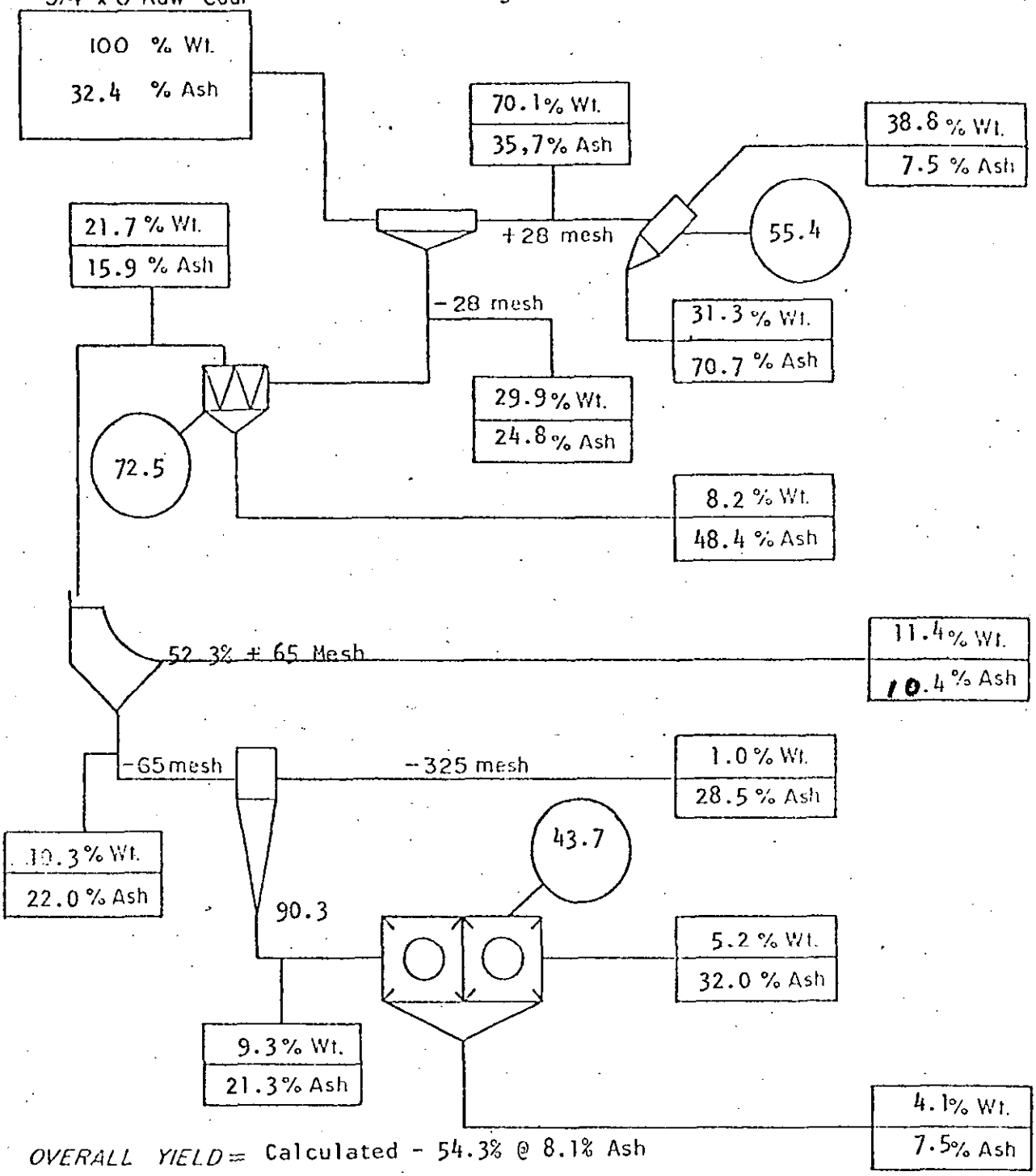


DENISON MINES LTD. ADIT 76-4-1, LOTS 1 & 2 LAB.7881 28M X 65M

--DIRECT--					--CUM FLOATS--			--CUM SINKS--		+-0.1 DISTR	
S.G.	WT>	ASH>	WT> ASH TT	CUM WT> ASHTT	WT>	ASH>	SINK WT ASH>	WT>	ASH>	S.G.	WT>
1	2	3	4	5	6	7	8	9	10	11	12
1.30	29.50	2.20	.65	.65	29.50	2.20	23.82	70.50	33.78	1.30	0.00
1.35	17.10	4.70	.80	1.45	46.60	3.12	23.01	53.40	43.10	1.40	35.80
1.40	10.40	9.20	.96	2.41	57.00	4.23	22.06	43.00	51.30	1.50	14.40
1.45	4.40	14.20	.62	3.03	61.40	4.94	21.43	38.60	55.53	1.60	10.40
1.50	3.90	19.20	.75	3.78	65.30	5.79	20.68	34.70	59.61	1.70	7.50
1.60	6.10	27.50	1.68	5.46	71.40	7.65	19.01	28.60	66.46	1.80	5.60
1.70	4.30	34.50	1.48	6.94	75.70	9.17	17.52	24.30	72.11	1.90	0.00
1.80	3.20	42.80	1.37	8.31	78.90	10.54	16.15	21.10	76.56	2.00	0.00
1.90	2.40	50.50	1.21	9.53	81.30	11.72	14.94	18.70	79.90	2.10	0.00
9.99	18.70	79.90	14.94	24.47	100.00	24.47	0.00	.00	0.00	2.20	0.00

BIRTLEY ENGINEERING
02/12/76

Figure 6



OVERALL YIELD = Calculated - 54.3% @ 8.1% Ash

LEGEND: Actual - 47.3% @ 8.3% Ash

○ *CIRCUIT YIELD %*

Wt.	*WEIGHT %*
Ash	*ASH CONTENT (AIR DRIED)*

BIRTLEY ENGINEERING (CANADA) LTD.

Title DENISON MINES LTD. ADIT 75-4-1 SAXON EAST LAB. NO. 7880 PLANT BALANCE SHEET	Date Drawn

BIRTLEY ENGINEERING (CANADA) LTD.

Coal Science & Minerals Testing Div.

DENISON MINES LTD.

BULK WASHING DATA*

ADIT/~~SEAM~~ 76-4-1 Saxon East LAB. NO. 7880 DATE OF WASH Nov. 19th, 1976

Raw Coal Analysis: ADM 2.4 Ash % 32.3 F.S.I. 3 1/2 H.G.I. --

Delivered Bulk Weight 9.043 Metric Tons

Washed Weight 8.173 Metric Tons

*All weight and analyses are on Air Dried Basis unless otherwise indicated.

DENISON MINES LTD.

BULK WASHING DATA

HEAVY MEDIUM CIRCUIT

ADIT/~~XXXX~~ NO. 76-4-1 Saxon East LAB. NO. 7880

1. S. G. of Separation 1.53

2. Feed Ash Content 35.7 % F.S.I. 3

3. Clean Coal Estimated Weight 3.067 M.T.

4. Clean Coal Analysis - Ash 7.5 % F.S.I. 8

5. Reject Estimated Weight 2.569 M.T.

6. Reject Analysis - Ash 70.7 % F.S.I. 1

7. Estimated 3/4" x 28M in Circuit 5.726 M.T. 70.1 Wt.%

8. Yield Clean Coal (Weighted): $\frac{3}{3 + 5}$ 53.4 %

9. Yield Clean Coal (Calculated Ash Balance) - $\frac{6 - 2}{6 - 4}$ 55.4 %

DENISON MINES LTD.

BULK WASHING DATA

WATER-ONLY CYCLONE CIRCUIT

ADIT/~~SEAM~~ NO. 76-4-1 Saxon East LAB. NO. 7880

1. Vortex Finder Clearance (VCF) #2 - 6.4 #1 - 5.1 CM 2.5 2.0 Inches

2. Feed Pressure #2 - 0.35 #1 - 1.4 KG/CM^2 5 20 P.S.I.

3. Feed Rate #2 - 5.8 #1 - 23.2 M^3/HR. 21.2 8.5 IG/Min.

4. Feed Pulp Density 100 - 120 g/l. 10-12 Solids W/V

5. Sample Analysis:-

	SCREEN SIZE	WT. %	ASH %	F.S.I.	CUM WT. %	CUM ASH %	HEAD ASH	HEAD FSI
FEED							24.8	6 1/2
O'FLOW	+65 Mesh	52.3	10.2	8	52.3	10.2	15.9	7
	65M x 0	47.7	21.7	5	100.0	15.8		
U'FLOW							48.4	1 1/2
S B O							10.4	8
T C O*							28.5	1

6. Yield - Total W.O. Cyclone Circuit = 72.5

7. Estimated Yield of 28 x 65 Mesh Coal = 37.9
(as % of 28 Mesh x 0 Feed)

8. Estimated 28M x 0 in circuit
(Plant Feed - HM Products) 2.447 M.T. 29.1 %

* Thickener Cyclone Overflow

DENISON MINES LTD.

BULK WASHING DATA

FROTH FLOTATION CIRCUIT

ADIT/SEAM NO. 76-4-1 Saxon East LAB. NO. 7880

1. Reagents: Kerosene:Methylisobutylcarbinol (MIBC)

2. Feed Pulp Density 150 - 200 g/l 15-20 % Solids W/V

3. Sample Analysis:-

	ASH	F.S.I.
FEED	21.3	7
CONC.	7.5	9
TAILS	32.0	4

4. Impeller Type - Birtley-Humboldt Multi-Wobble.

5. Yield Calculated (Ash Balance) 43.7 %

6. Filter Cake (Sieve Bend O'Flow & Flotation Conc.)
Wt. Recovered 800 M.T.

7. Filter Cake - Ash% 9.8 F.S.I. 8

DENISON MINES LTD.
BULK WASHING DATA

ADIT/SEAM NO. 76-4-1 Saxon East LAB. NO. 7880 DATE OF WASH November 19/76

a) Raw Coal

Delivered Weight	=	9.043
Ash %	=	32.3
F.S.I.	=	3 1/2
Estimated Washed Wt.	=	8.173 MT

b) Heavy Media Circuit

Estimated Proportion of +28 Mesh in Feed 70.1%

Effective S.G. =	1.53			
Raw Feed	35.7	% Ash	3	F.S.I.
Clean Coal	7.5	% Ash	8	F.S.I.
Reject	70.7	% Ash	1	F.S.I.
Calculated Yield	55.4			
Weighed Yield	53.4			

c) Water-Only Cyclone Circuit

Raw Feed	24.8	% Ash	6 1/2	F.S.I.
Overflow	15.9	% Ash	7	F.S.I.
Underflow	48.4	% Ash	1 1/2	F.S.I.
Calculated Yield	72.5			
% of +65M in O/F	52.3			
Sieve Bend Overflow	10.4	% Ash	8	F.S.I.

d) Froth Flotation Circuit

Raw Feed	21.3	% Ash	7	F.S.I.
Concentrates	7.5	% Ash	9	F.S.I.
Tails	32.0	% Ash	4	F.S.I.
Calculated Yield	43.7			

DENISON MINES LTD.

BULK WASHING DATA

BULK WASHING SUMMARY (cont.)

ADIT/SXXXX NO. 76-4-1 Saxon East LAB. NO. 7880

e) Clean Coal Mix Analyses

i) Proximate

ADM% 9.0 RM% 0.5 ASH% 8.1 VM% 20.1 FC% 71.3 S% 0.48 F.S.I. 7 1/2

BTU 14,399 H.G.I. 107

ii) Dilatometer

Softening °C 422 Max. Dil. °C 485 Max. Cont. % 16

Max. Dil. % 19 G. No. = 1.006

f) Clean Coal Mix Make Up.

H.M. CLEAN COAL	FINES FILTER CAKE	CLEAN COAL MIX		SHIPPED		IN STOCK	
M.T.	M.T.	BBLS.	M.T.	BBLS.	M.T.	BBLS.	M.T.
3.067	.800	---	3867	3	.564	15	2.820

I

Lab. No. 7880 Date Nov. 30/76

Client: DENISON MINES LTD.

Sample Identification: ADIT 74-4-1 SAXON PROJECT CLEAN COAL

Starting Temperature °C: 320°

Softening Temperature °C: 422°

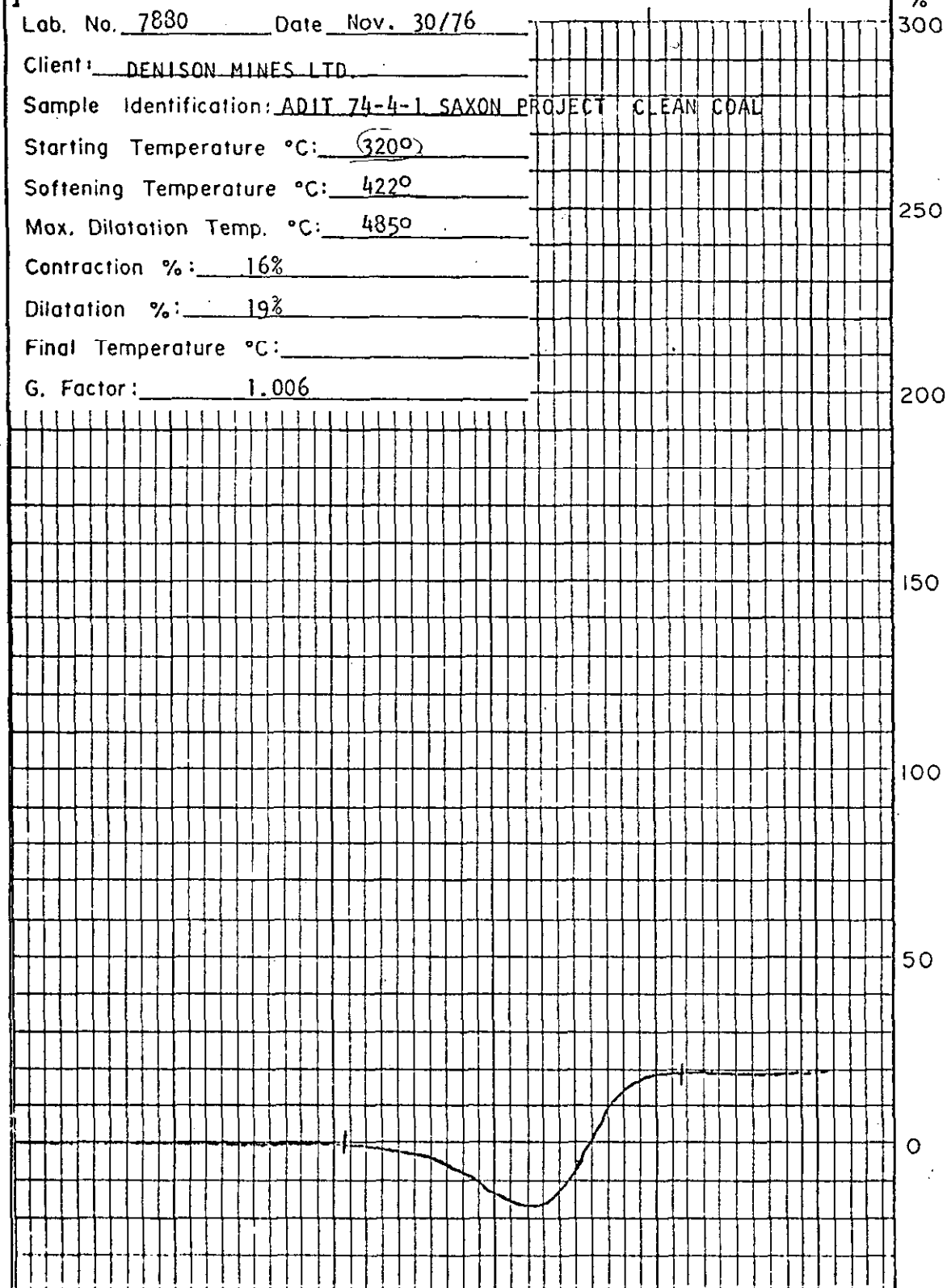
Max. Dilatation Temp. °C: 485°

Contraction %: 16%

Dilatation %: 19%

Final Temperature °C:

G. Factor: 1.006



BIRTLEY ENGINEERING (CANADA) LTD.

Title	Date
RUHR DILATOMETER TEST	Dec, 14, 1976
Figure 7	Drawn

CLIENT: DENISON MINES LTD.

SAMPLE: ADIT# 76 - 4 - 1

LAB NO.: 7880

TABLE 5

CLEAN COAL HOMOGENIZATION

*ANALYSIS OF "QUARTERED" COAL PILES

	INCREMENT NO.	SITE NO.	RESIDUAL MOISTURE	ASH %	F.S.I.	ASH % DRY BASIS
	1	A	0.4	8.2	7 1/2	8.23
	1	B	0.4	8.0	7	8.03
	1	C	0.4	8.3	7 1/2	8.33
	1	D	0.4	8.2	7 1/2	8.23
	2	A	0.4	8.1	7 1/2	8.13
	2	B	0.4	8.0	7 1/2	8.03
	2	C	0.4	8.2	7 1/2	8.23
	2	D	0.4	8.1	7 1/2	8.13
	3	A	0.4	8.3	7 1/2	8.33
	3	B	0.4	8.2	7 1/2	8.23
	3	C	0.4	8.2	7 1/2	8.23
	3	D	0.4	8.0	7 1/2	8.03
	4	A	0.4	8.1	7 1/2	8.13
	4	B	0.4	8.3	8	8.33
	4	C	0.4	8.2	7 1/2	8.23
	4	D	0.4	8.1	7	8.13

* ANALYSIS ON AIR DRIED BASIS

CLIENT: DENISON MINES LTD.

SAMPLE: ADIT# 76 - 4 - 1

LAB NO.: 7880

TABLE 6

ANALYSIS OF PACKED BARRELS OF CLEAN COAL

BARREL NO.	RESIDUAL MOISTURE	ASH	VOL.	F.C.	S%	F.S.I.	CALC. FACTORS
1	.52	8.20	19.30	71.98	.43	7 1/2	A.D.B.
		8.24	19.40	72.36			D.B.
3	.54	8.12	19.60	71.74	.54	7 1/2	A.D.B.
		8.16	19.71	72.13			D.B.
5	.48	8.34	19.50	71.68	.52	7 1/2	A.D.B.
		8.38	19.59	72.03			D.B.
7	.47	7.99	19.60	71.94	.43	7 1/2	A.D.B.
		8.03	19.69	72.28			D.B.
9	.46	8.19	19.60	71.75	.45	8	A.D.B.
		8.23	19.69	72.08			D.B.
10	.50	8.25	19.60	71.65	.50	7 1/2	A.D.B.
		8.29	19.70	72.01			D.B.
12	.55	8.04	19.30	72.11	.51	7 1/2	A.D.B.
		8.08	19.41	72.51			D.B.
13	.49	8.12	19.60	71.79	.45	7 1/2	A.D.B.
		8.16	19.70	72.14			D.B.
14	.70	8.31	19.60	71.39	.58	7 1/2	A.D.B.
		8.37	19.74	71.89			D.B.

CLIENT: DENISON MINES LTD.

SAMPLE: ADIT# 76 - 4 - 1

LAB NO.: 7880

TABLE 6 (cont.)

ANALYSIS OF PACKED BARRELS OF CLEAN COAL

BARREL NO.	RESIDUAL MOISTURE	ASH	VOL.	F.C.	S%	F.S.I.	CALC. FACTORS
16	.51	7.99	19.60	71.90	.43	7 1/2	A.D.B.
		8.03	19.70	72.27			D.B.
17	.36	8.12	19.60	71.92	.50	7 1/2	A.D.B.
		8.15	19.67	72.18			D.B.
18	.41	8.21	19.60	71.78	.47	7 1/2	A.D.B.
		8.24	19.68	72.08			D.B.
19	.53	8.15	19.5	71.82	.45	7 1/2	A.D.B.
		8.19	19.61	72.20			D.B.
20	.44	8.20	19.50	71.86	.45	7 1/2	A.D.B.
		8.24	19.58	72.18			D.B.
21	.51	8.23	19.60	71.66	.48	8	A.D.B.
		8.27	19.70	72.03			D.B.
22	.27	8.23	19.60	71.90	150	7 1/2	A.D.B.
		8.25	19.65	72.10			D.B.
23	.38	8.31	19.40	71.91	.47	7	A.D.B.
		8.34	19.47	72.19			D.B.
24	.31	8.13	19.60	71.96	.50	7 1/2	A.D.B.
		8.16	19.66	72.18			D.B.

ADIT# 76 - 4 - 2

LAB.# 7955/56

CLIENT: DENISON MINES LTD.

SAMPLE: 76 - 4 - 2 Saxon South

LAB. NO.: 7956

TABLE 7

SIZE AND RAW ANALYSES									
SIZE FRACTION	WT. %	ASH %	R.M.%	V.M.%	F.C.%	S.%	F.S.I.	CUMULATIVE WT.%	CUMULATIVE ASH %
3/4" x 28M	85.1	19.5	0.7	23.8	56.0	0.39	4 1/2	85.1	19.5
28M x 65M	7.3	12.5	0.7	26.2	60.6	0.47	8	92.4	18.7
65M x 0	7.6	15.2	0.7	25.8	58.3	0.49	7 1/2	100.0	18.7
HEAD RAW	100.0	19.2	0.7	23.9	56.2	0.42	5	adl =	%

TABLE 8

FROTH FLOTATION TEST						
SIZE PRODUCT	65M x 0					PARAMETERS
	WT. %	ASH %	F.S.I.	CUMULATIVE WT. %	CUMULATIVE ASH %	
STAGE I	83.3	7.4	8	83.3	7.4	Pulp Density = 10% Dosage = 0.48#/Ton Reagent = 4:1 - K:MIBC Conditioning Time - 1 Minute Stage I & II = 1st & 2nd Min. Froth Conc. @ 1st & 2nd Min.
STAGE II	3.7	21.1	5 1/2	87.0	8.0	
TAILS	13.0	58.1	1 1/2	100.0	14.5	

CLIENT: DENISON MINES LTD.
SAMPLE: 76 - 4 - 2 Saxon South
LAB. NO.: 7956

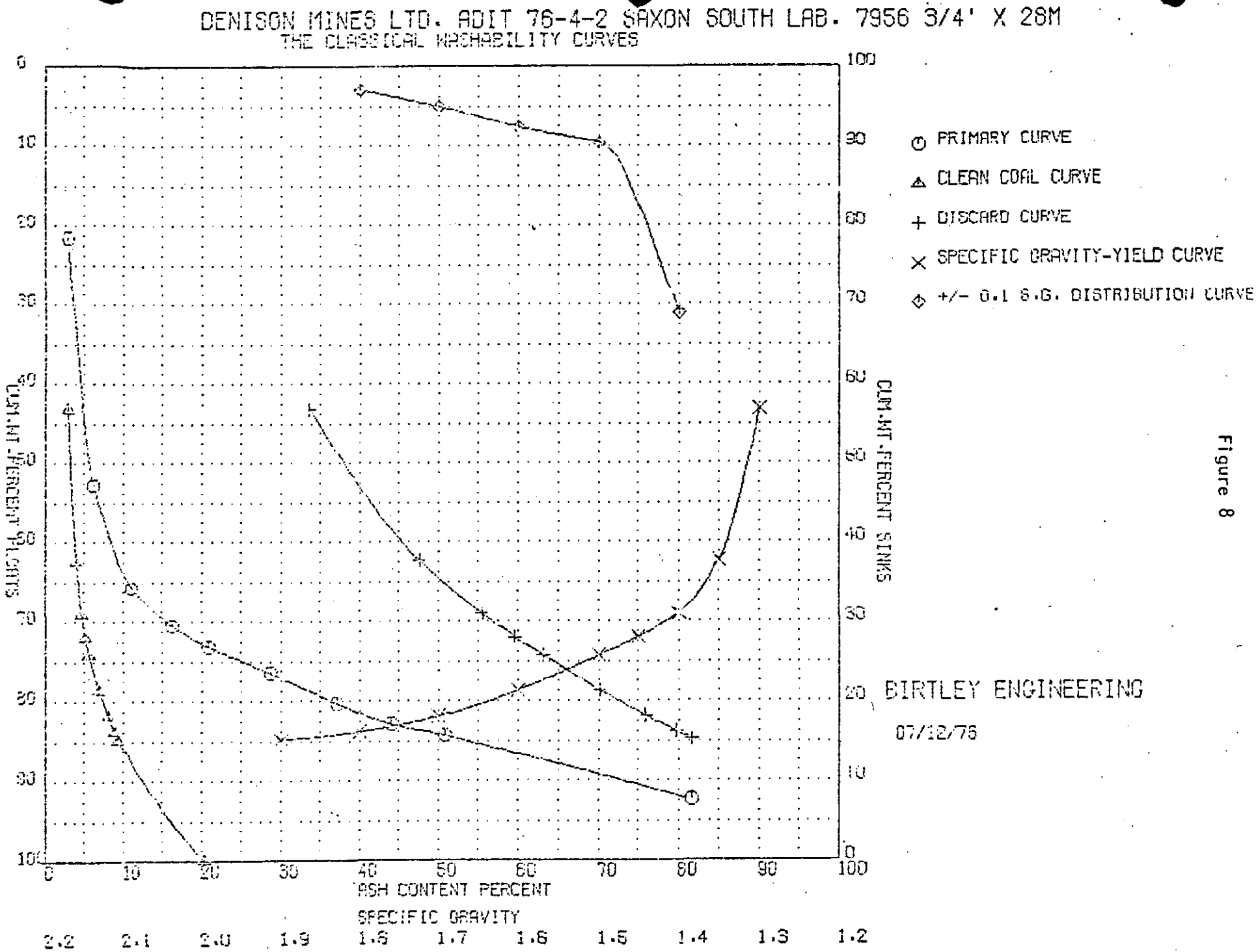
TABLE 9

SINK-FLOAT ANALYSES						
S. G. FRACTION	3/4" x 28M					
				CUMULATIVE		
	WT. %	ASH %	F.S.I.	WT. %	ASH %	F.S.I.
- 1.30	43.2	2.9	8	43.2	2.9	8
1.30 - 1.35	19.2	6.1	4	62.4	3.9	7 1/2
1.35 - 1.40	6.7	11.1	3	69.1	4.6	6 1/2
1.40 - 1.45	2.9	16.2	2 1/2	72.0	5.1	6
1.45 - 1.50	2.3	20.8	2 1/2	74.3	5.5	6
1.50 - 1.60	4.4	28.7	2	78.7	6.8	5 1/2
1.60 - 1.70	3.2	37.1	1 1/2	81.9	8.0	5 1/2
1.70 - 1.80	1.9	44.0	1	83.8	8.8	5
1.80 - 1.90	1.0	50.8	1	84.8	9.3	4 1/2
+ 1.90	15.2	81.6	0	100.0	20.3	3 1/2

TABLE 10

SINK-FLOAT ANALYSES						
S. G. FRACTION	28M x 65M					
				CUMULATIVE		
	WT. %	ASH %	F.S.I.	WT. %	ASH %	F.S.I.
- 1.30	62.0	1.9	9+	62.0	1.9	9 +
1.30 - 1.35	16.1	5.4	5	78.1	2.6	8
1.35 - 1.40	5.5	10.3	2 1/2	83.6	3.1	6 1/2
1.40 - 1.45	2.2	15.4	2 1/2	85.8	3.4	5 1/2
1.45 - 1.50	1.9	20.8	2 1/2	87.7	3.8	5
1.50 - 1.60	2.1	28.4	2	89.8	4.4	x
1.60 - 1.70	1.5	37.2	1 1/2	91.3	4.9	x
1.70 - 1.80	1.2	44.1	1	92.5	5.4	x
1.80 - 1.90	0.8	51.2	1	93.3	5.8	x
+ 1.90	6.7	80.7	0	100.0	10.8	x

Figure 8

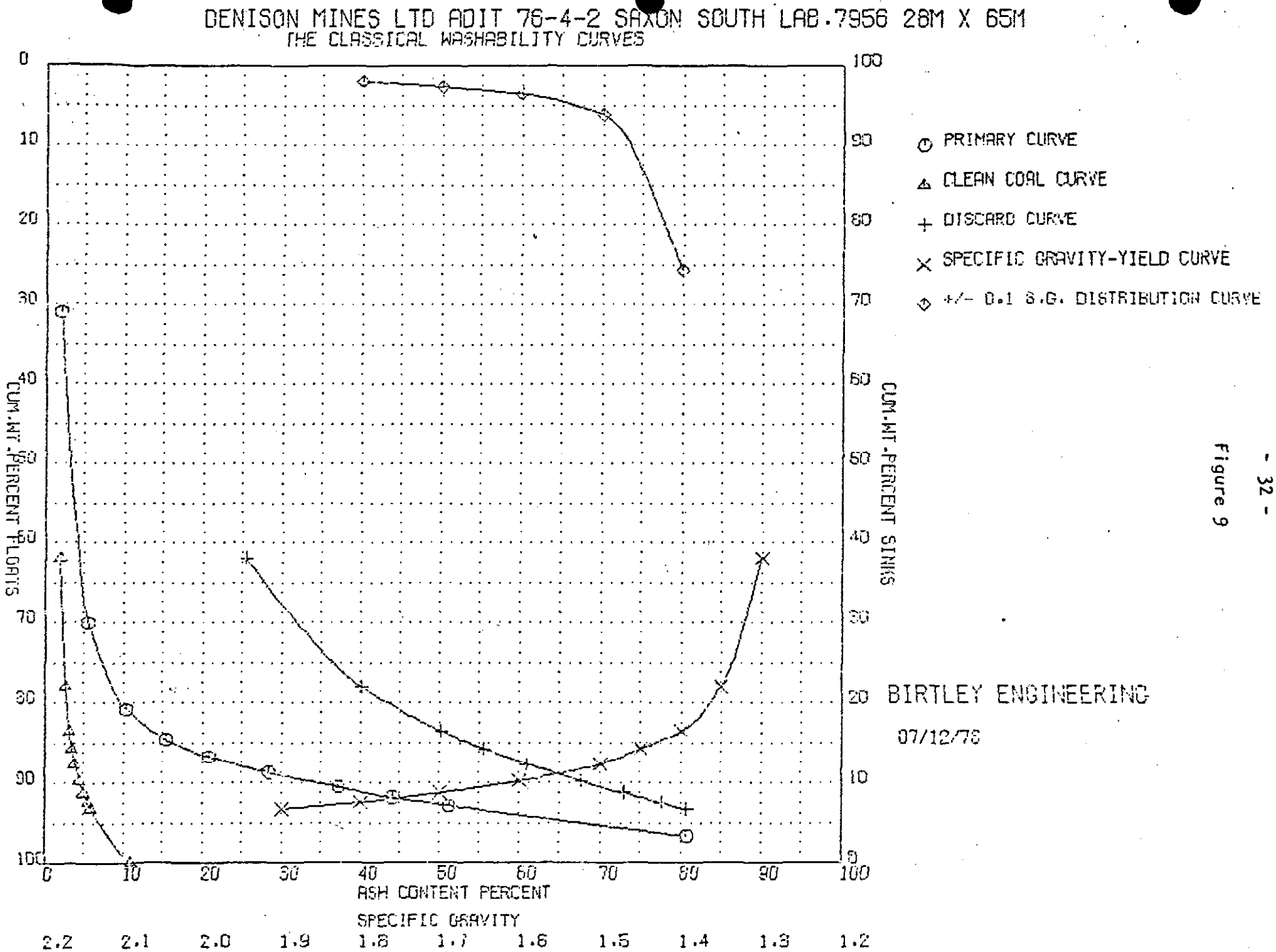

DENISON MINES LTD. ADIT 76-4-2 SAXON SOUTH LAB. 7956 3/4' X 28M
THE CLASSICAL WASHABILITY CURVES
PRIMARY CURVE
CLEAN COAL CURVE
DISCARD CURVE
SPECIFIC GRAVITY-YIELD CURVE
+/- 0.1 S.G. DISTRIBUTION CURVE
CUM.WT.PERCENT FLOATS
CUM.WT.PERCENT SINKS
ASH CONTENT PERCENT
SPECIFIC GRAVITY
2.2 2.1 2.0 1.9 1.8 1.7 1.6 1.5 1.4 1.3 1.2
BIRTLEY ENGINEERING
07/12/76

DENISON MINES LTD. ADIT 76-4-2 SAXON SOUTH LAB.7956 3/4" X 28%

--DIRECT--			--CUM FLOATS--				--CUM SINKS--			+-0.1 DISTR	
S.G.	WT>	ASH>	WT> ASH	CUM WT> TT ASHTT	WT>	ASH>	SINK WT ASH>	WT>	ASH>	S.G.	WT>
1	2	3	4	5	6	7	8	9	10	11	12
1.30	43.20	2.90	1.25	1.25	43.20	2.90	19.06	56.80	33.56	1.30	0.00
1.35	19.20	6.10	1.17	2.42	62.40	3.88	17.89	37.60	47.58	1.40	31.10
1.40	6.70	11.10	.74	3.17	69.10	4.58	17.15	30.90	55.49	1.50	9.60
1.45	2.90	16.20	.47	3.64	72.00	5.05	16.68	28.00	59.56	1.60	7.60
1.50	2.30	20.80	.48	4.12	74.30	5.54	16.20	25.70	63.02	1.70	5.10
1.60	4.40	28.70	1.26	5.38	78.70	6.83	14.93	21.30	70.11	1.80	2.90
1.70	3.20	37.10	1.19	6.57	81.90	8.02	13.75	18.10	75.95	1.90	0.00
1.80	1.90	44.00	.84	7.40	83.80	8.83	12.91	16.20	79.70	2.00	0.00
1.90	1.00	50.80	.51	7.91	84.80	9.33	12.40	15.20	81.60	2.10	0.00
9.99	15.20	81.60	12.40	20.31	100.00	20.31	0.00	.00	0.00	2.20	0.00

BIRTLEY ENGINEERING
07/12/76

Figure 9

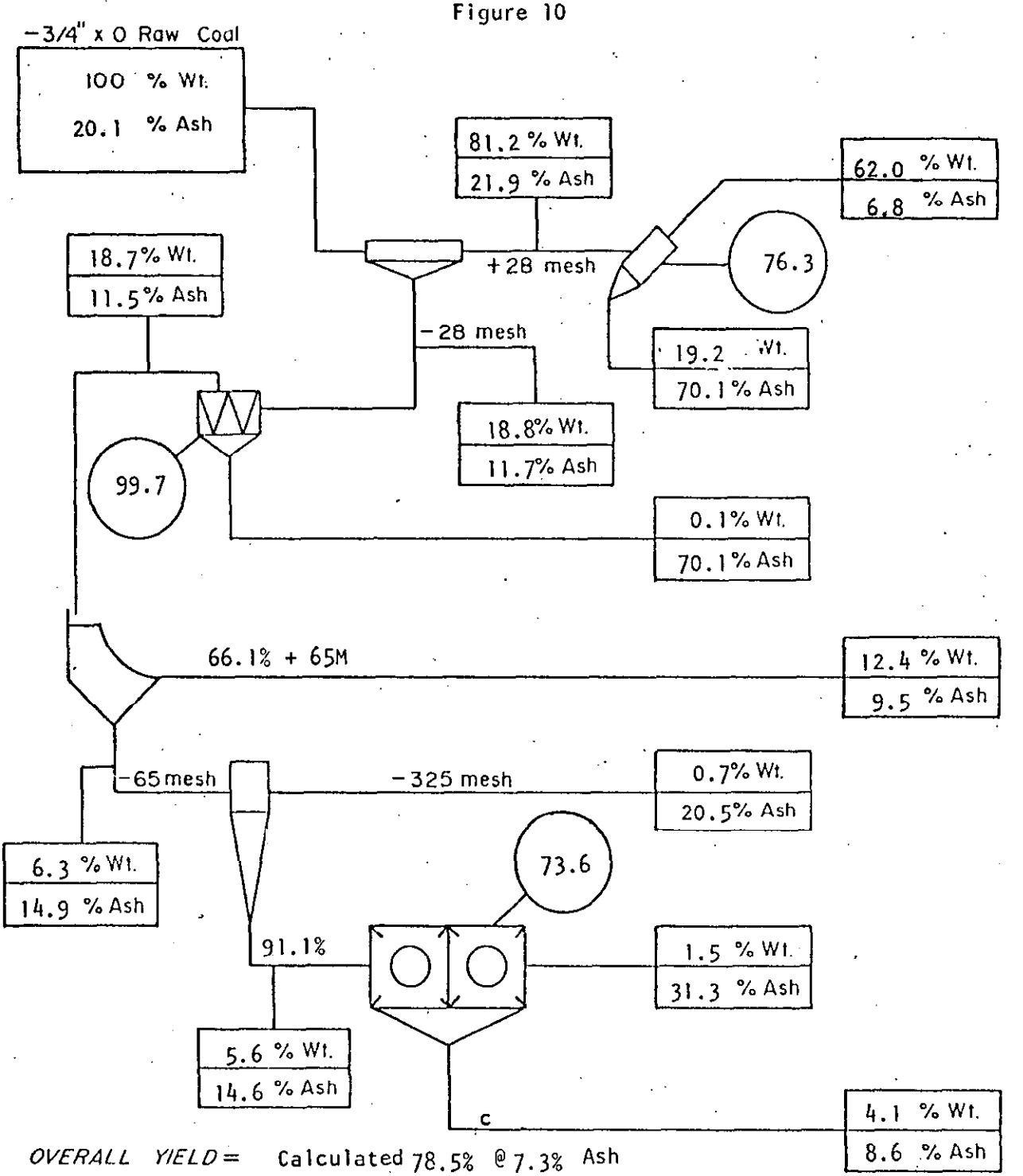

DENISON MINES LTD ADIT 76-4-2 SAXON SOUTH LAB.7956 28M X 65M
THE CLASSICAL WASHABILITY CURVES
PRIMARY CURVE
CLEAN COAL CURVE
DISCARD CURVE
SPECIFIC GRAVITY-YIELD CURVE
+/- 0.1 S.G. DISTRIBUTION CURVE
CUM.WT.PERCENT FLOATS
CUM.WT.PERCENT SINKS
ASH CONTENT PERCENT
SPECIFIC GRAVITY
2.2 2.1 2.0 1.9 1.8 1.7 1.6 1.5 1.4 1.3 1.2
BIRTLEY ENGINEERING
07/12/78

DENISON MINES LTD. ADIT 76-4-2 SAXON SOUTH LAB.7956 28M X 65M

--DIRECT--					--CUM FLOATS--			--CUM SINKS--		+-0.1 DISTR	
S.G.	WT>	ASH>	WT> CUM WT> ASH TT	ASHTT	WT>	ASH>	SINK WT ASH>	WT>	ASH>	S.G.	WT>
1	2	3	4	5	6	7	8	9	10	11	12
1.30	62.00	1.90	1.18	1.18	62.00	1.90	9.67	38.00	25.45	1.30	0.00
1.35	16.10	5.40	.87	2.05	78.10	2.62	8.80	21.90	40.19	1.40	25.70
1.40	5.50	10.30	.57	2.61	83.60	3.13	8.23	16.40	50.21	1.50	6.20
1.45	2.20	15.40	.34	2.95	85.80	3.44	7.90	14.20	55.60	1.60	3.60
1.50	1.90	20.80	.40	3.35	87.70	3.82	7.50	12.30	60.98	1.70	2.70
1.60	2.10	28.40	.60	3.94	89.80	4.39	6.90	10.20	67.68	1.80	2.00
1.70	1.50	37.20	.56	4.50	91.30	4.93	6.35	8.70	72.94	1.90	0.00
1.80	1.20	44.10	.53	5.03	92.50	5.44	5.82	7.50	77.55	2.00	0.00
1.90	.80	51.20	.41	5.44	93.30	5.83	5.41	6.70	80.70	2.10	0.00
9.99	6.70	80.70	5.41	10.85	100.00	10.85	0.00	.00	0.00	2.20	0.00

BIRTLEY ENGINEERING
07/12/76

Figure 10



OVERALL YIELD = Calculated 78.5% @ 7.3% Ash

LEGEND: Actual 74.4% @ 7.4% Ash

○ *CIRCUIT YIELD %*

Wt.	*WEIGHT %*
Ash	*ASH CONTENT (AIR DRIED)*

BIRTLEY ENGINEERING (CANADA) LTD.

Title	Date
PLANT BALANCE SHEET DENISON MINES LTD. ADIT:- 76 - 4 - 2 SAXON SOUTH LAB. NO. 7955	Drawn

BIRTLEY ENGINEERING (CANADA) LTD.

Coal Science & Minerals Testing Div.

DENISON MINES LTD.

BULK WASHING DATA*

ADIT/SEAM 76 - 4 - 2 Saxon South LAB. NO. 7955 DATE OF WASH Dec. 3/76

Raw Coal Analysis: ADM 8.0 Ash% 19.2 F.S.I. 5 H.G.I. ---

Delivered Bulk Weight 8.136 Metric Tons

Washed Weight 7.078 Metric Tons

*All weight and analyses are on Air Dried Basis unless otherwise indicated.

DENISON MINES LTD.

BULK WASHING DATA

HEAVY MEDIUM CIRCUIT

ADIT/SEAM NO. 76 - 4 - 2 Saxon South LAB. NO. 7955

1. S. G. of Separation 1.60

2. Feed Ash Content 21.9 % F.S.I. 5

3. Clean Coal Estimated Weight 4.464 M.T.

4. Clean Coal Analysis - Ash 6.5 % F.S.I. 6 1/2

5. Reject Estimated Weight 1.287 M.T.

6. Reject Analysis - Ash 70.1 % F.S.I. 1/2

7. Estimated 3/4" x 28M in Circuit 5.751 M.T. 81.2 Wt.%

8. Yield Clean Coal (Weighted): $\frac{3}{3 + 5}$ 77.6 %

9. Yield Clean Coal (Calculated Ash Balance) - $\frac{6 - 2}{6 - 4}$ 75.6 %

DENISON MINES LTD.

BULK WASHING DATA

WATER ONLY CYCLONE CIRCUIT

ADIT/SEAM NO. 76 - 4 - 2 LAB. NO. 7955

Saxon South

1. Vortex Finder Clearance (VFC) #2 - 3.8 / #1 - 1.7 CM 1.5 / 0.5 Inches

2. Feed Pressure #2 - 0.4 / #1 - 1.4 KG/CM^2 5 / 20 P.S.I.

3. Feed Rate #2 - 5.8 / #1 - 23.2 $M^3/Hr.$ 21.2 / 85 LG/Min.

4. Feed Pulp Density 100 - 130 g/l. 10 - 13 Solids W/V

5. Sample Analysis:-

	SCREEN SIZE	WT. %	ASH %	F.S.I.	CUM WT. %	CUM ASH %	HEAD ASH	HEAD F.S.I.
FEED							11.7	7 1/2
O'FLOW	+65M	66.1	9.0	8	66.1	9.0		
	65M XO	33.9	17.1	7 1/2	100.0	11.7	11.5	7 1/2
U'FLOW							70.1	1
S B O							9.5	7 1/2
T C O*								
							20.5	2 1/2

6. Yield - Total W.O. Cuclone Circuit = 99.7

7. Est. Yield of 28 X 65 Mesh Coal = 65.9
(as % of 28 Mesh X 0 Feed)

8. Est. 28M X 0 in circuit (Plant Feed - HM Products) 1.327 M.T. 18.8 %
(plant Feed - HM Products)

* Thickener Cyclone Overflow

DENISON MINES LTD.

BULK WASHING DATA

FROTH FLOTATION CIRCUIT

ADIT/SEAM NO. 76 - 4 - 2 Saxon South LAB. NO. 7955

1. Reagents: Kerosene:Methylisobutylcarbinol (MIBC)

2. Feed Pulp Density 120 - 160 g/l 12 - 16 % Solids W/V

3. Sample Analysis:-

	ASH	F.S.I.
FEED	14.6	7 1/2
CONC.	8.6	8
TAILS	31.3	4 1/2

4. Impeller Type - Birtley-Humboldt Multi-Wobble.

5. Yield Calculated (Ash Balance) 73.6 %

6. Filter Cake (Sieve Bend O'Flow & Flotation Conc.)
Wt. Recovered .799 M.T.

7. Filter Cake - Ash% 9.0 F.S.I. 7 1/2

DENISON MINES LTD.

BULK WASHING DATA

ADIT/SEAM NO. 76 - 4 - 2 Saxon South LAB. NO. 7955 DATE OF WASH Dec. 3/76

a) Raw Coal

Delivered Weight	=	8.136 M.T.
Ash %	=	19.2
F.S.I.	=	5
Estimated Washed Wt.	=	7.078 M.T.

b) Heavy Media Circuit

Estimated Proportion of +28 Mesh in Feed 81.2%

Effective S.G. = 1.60

Raw Feed	21.9	% Ash	5	F.S.I.
Clean Coal	6.5	% Ash	6 1/2	F.S.I.
Reject	70.1	% Ash	1/2	F.S.I.
Calculated Yield	77.6			
Weighed Yield	75.6			

c) Water-Only Cyclone Circuit

Raw Feed	11.7	% Ash	7 1/2	F.S.I.
Overflow	11.5	% Ash	7 1/2	F.S.I.
Underflow	70.1	% Ash	1	F.S.I.
Calculated Yield	99.7			
% of +65M in O/F	66.1			
Sieve Bend Overflow	9.5	% Ash	7 1/2	F.S.I.

d) Froth Flotation Circuit

Raw Feed	14.6	% Ash	7 1/2	F.S.I.
Concentrates	8.6	% Ash	8	F.S.I.
Tails	31.3	% Ash	4 1/2	F.S.I.
Calculated Yield	73.6			

DENISON MINES LTD.

BULK WASHING DATA

BULK WASHING SUMMARY (cont.)

ADIT/SEAM NO. 76 - 4 - 2 Saxon South LAB. NO. 7955

e) Clean Coal Mix Analyses

i) Proximate

ADM% 6.3 RM% 0.6 ASH% 7.4 VM% 27.0 FC% 65.0 S% 0.43 F.S.I. 7 1/2

BTU 14,304 H.G.I. 73

ii) Dilatometer

Softening °C 372 Max. Dil. °C 443 Max. Cont. % 19

Max. Dil. % 128 G. No. = 1.069

f0 Clean Coal Mix Make-Up

H.M. CLEAN COAL	FINES FILTER CAKE	CLEAN COAL MIX		SHIPPED		IN STOCK	
M.T.	M.T.	BBLS.	M.T.	BBLS.	M.T.	BBLS.	M.T.
4.464	.799	---	5.263	---	---	29	4.930

II

Lab. No. 7955 Date Dec. 16/76

Client: DENISON MINES LTD.

Sample Identification: ADIT#76-4-2 CLEAN COAL

Starting Temperature °C: 350

Softening Temperature °C: 372

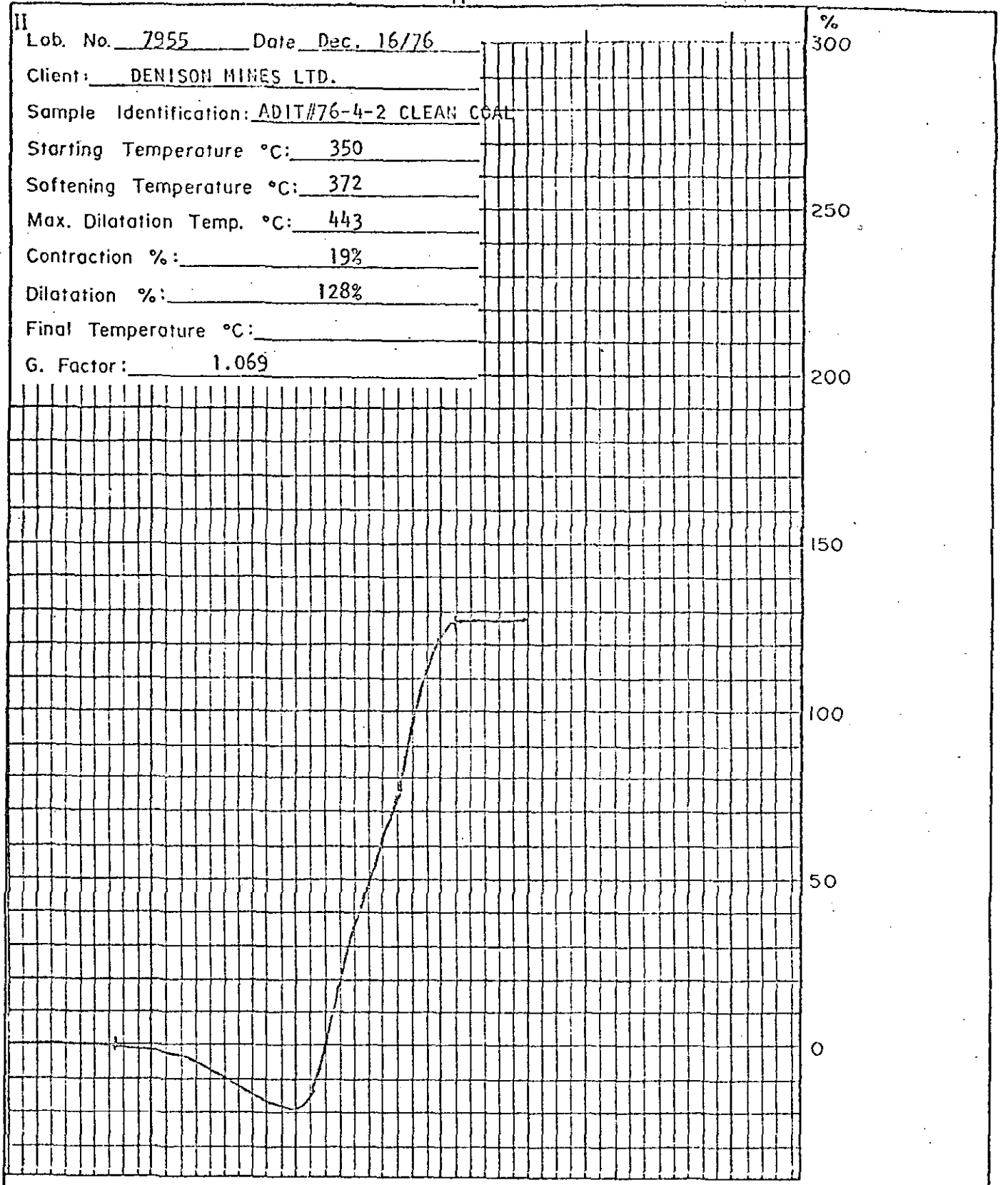
Max. Dilatation Temp. °C: 443

Contraction %: 19%

Dilatation %: 128%

Final Temperature °C:

G. Factor: 1.069



BIRTLEY ENGINEERING (CANADA) LTD.

Title	Date
RUHR DILATOMETER TEST Figure 11	Dec. 16/76
	Drawn

CLIENT: DENISON MINES LTD.

SAMPLE: ADIT# 76 - 4 - 2

LAB NO.: 7955

TABLE II

CLEAN COAL HOMOGENIZATION

ANALYSIS OF "QUARTERED" COAL PILES

	INCREMENT NO.	SITE NO.	RESIDUAL MOISTURE	ASH%	F.S.I.%	ASH% DRY BASIS
	1	A	0.6	7.2	7 1/2	7.2
	1	B	0.6	7.2	7	7.2
	1	C	0.6	7.2	7 1/2	7.2
	1	D	0.7	7.5	7	7.6
	2	A	0.6	7.4	7 1/2	7.4
	2	B	0.6	7.6	7	7.6
	2	C	0.5	7.3	7	7.3
	2	D	0.6	7.5	7 1/2	7.5
	3	A	0.6	7.0	7 1/2	7.0
	3	B	0.6	7.2	7 1/2	7.2
	3	C	0.6	7.2	7 1/2	7.2
	3	D	0.7	7.2	7	7.2
	4	A	1.1	7.2	7	7.3
	4	B	1.1	7.2	7 1/2	7.3
	4	C	1.2	7.4	7	7.5
	4	D	1.0	7.5	7 1/2	7.6

CLIENT: DENISON MINES LTD.

SAMPLE: ADIT# 76 - 4 - 2 TABLE 12

LAB NO.: 7955

ANALYSIS OF PACKED BARRELS OF CLEAN COAL

BARREL NO.	RESIDUAL MOISTURE	ASH	VOL.	F.C.	S%	F.S.I.	CALC. FACTORS
1	0.6	7.35	27.0	65.05	.39	7	A.D.B.
		7.40	27.16	65.44			D.B.
2	0.6	7.35	27.2	64.85	.41	7 1/2	A.D.B.
		7.40	27.36	65.24			D.B.
3	0.6	7.45	26.7	65.25	.37	7 1/2	A.D.B.
		7.50	26.86	65.64			D.B.
4	0.6	7.27	27.0	65.13	.43	7	A.D.B.
		7.32	27.16	65.52			D.B.
5	0.6	7.50	27.1	64.80	.41	6 1/2	A.D.B.
		7.55	27.26	65.19			D.B.
6	0.6	7.43	26.9	65.07	.45	7	A.D.B.
		7.48	27.06	65.46			D.B.
7	0.7	7.32	26.8	65.18	.39	7	A.D.B.
		7.37	26.99	65.64			D.B.
8	0.6	7.41	26.9	65.09	.41	7 1/2	A.D.B.
		7.46	27.06	65.48			D.B.
9	0.6	7.26	27.0	65.14	.39	7 1/2	A.D.B.
		7.30	27.16	65.54			D.B.

CLIENT: DENISON MINES LTD.

SAMPLE: ADIT# 76 - 4 - 2

LAB NO.: 7955

TABLE 12 (cont.)

ANALYSIS OF PACKED BARRELS OF CLEAN COAL

BARREL NO.	RESIDUAL MOISTURE	ASH	VOL.	F.C.	S%	F.S.I.	CALC. FACTORS
10	0.6	7.34	27.1	64.96	.39	7	A.D.B.
		7.39	27.26	65.35			D.B.
11	0.6	7.30	27.1	65.00	.37	7	A.D.B.
		7.35	27.26	65.39			D.B.
12	0.6	7.39	26.8	65.21	.45	7	A.D.B.
		7.44	26.96	65.60			D.B.
13	0.6	7.39	27.0	65.01	.41	7	A.D.B.
		7.44	27.16	65.40			D.B.
14	0.6	7.25	27.1	65.05	.42	7	A.D.B.
		7.29	27.27	65.44			D.B.
15	0.6	7.54	26.9	64.96	.37	7	A.D.B.
		7.59	27.06	65.35			D.B.
16	0.6	7.64	26.9	64.86	.37	7	A.D.B.
		7.69	27.06	65.25			D.B.
17	0.6	7.53	26.9	64.97	.41	7	A.D.B.
		7.58	27.06	65.36			D.B.
18	0.6	7.24	27.0	65.16	.43	7	A.D.B.
		7.29	27.16	65.55			D.B.

ADIT# 76 - 4 - 4

LAB.# 7912/13

CLIENT: DENISON MINES LTD.

SAMPLE: ADIT# 76 - 4 - 4

LAB. NO.: 7913

TABLE 13

SIZE AND RAW ANALYSES									
SIZE FRACTION	WT. %	ASH %	R.M.%	V.M.%	F.C.%	S.%	F.S.I.	CUMULATIVE WT.%	CUMULATIVE ASH %
3/4" x 28M	79.6	18.8	0.7	22.1	58.4	0.42	6	79.6	18.8
28M x 65M	10.1	14.8	0.7	22.7	61.8	0.58	8	89.7	18.3
65M x 0	10.3	17.0	0.7	22.6	59.7	0.60	7	100.0	18.2
HEAD RAW	100.0	18.6	0.7	22.1	58.6	0.43	6	adl =	%

TABLE 14

FROTH FLOTATION TEST						
SIZE PRODUCT	65M x 0					PARAMETERS
	WT. %	ASH %	F.S.I.	CUMULATIVE WT. %	CUMULATIVE ASH %	Pulp Density = 10% Dosage = 0.48#/Ton Reagent = 4:1 - K:MIBC Conditioning Time - 1 Minute Stage I & II = 1st & 2nd Min. Froth Conc. @ 1st & 2nd Min.
STAGE I	76.1	8.2	8 1/2	76.1	8.2	
STAGE II	5.9	21.9	5 1/2	82.0	9.2	
TAILS	18.0	48.2	1 1/2	100.0	16.2	

CLIENT: DENISON MINES LTD.
SAMPLE: ADIT# 76 - 4 - 4
LAB. NO.: 7913

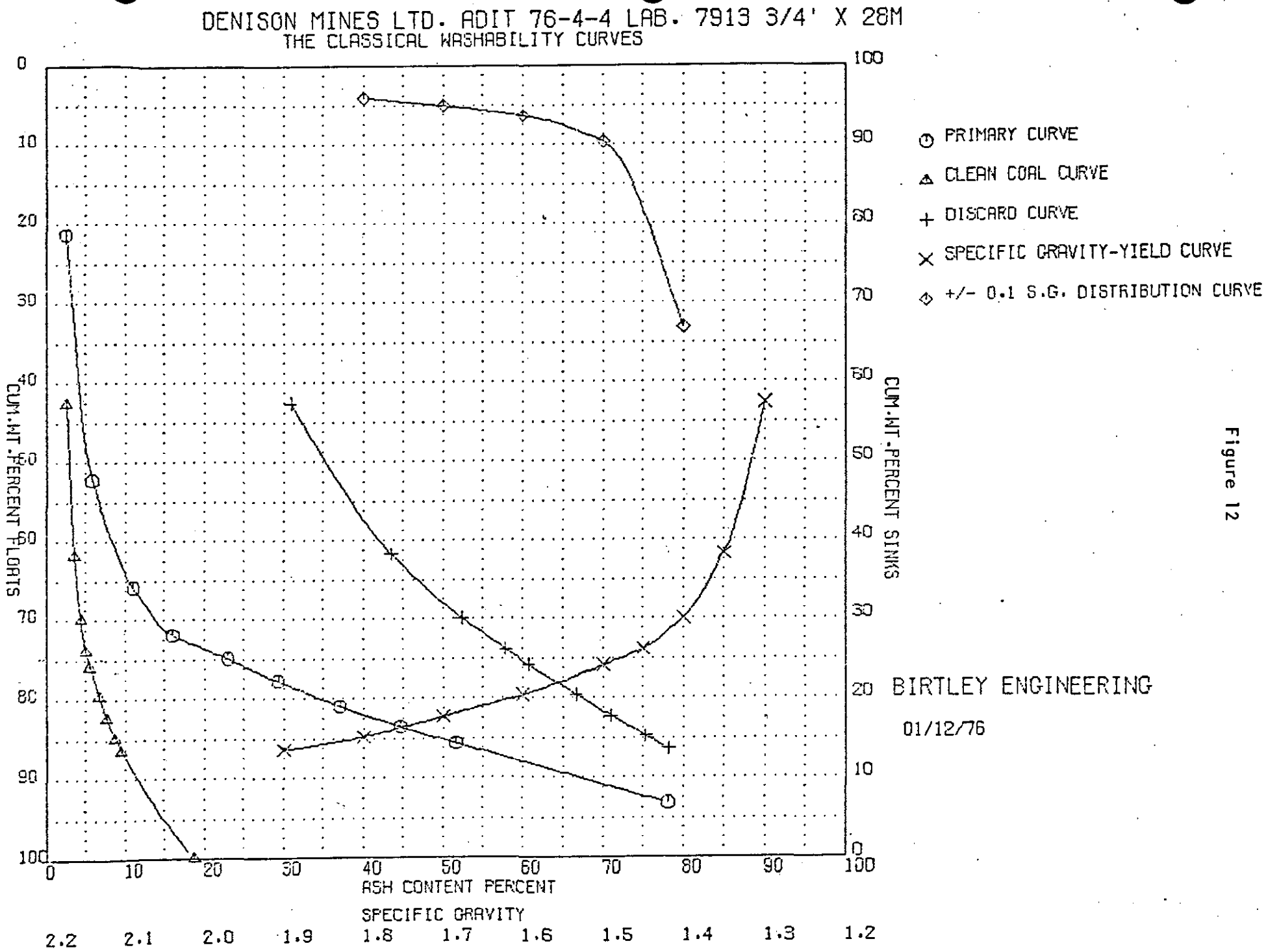
TABLE 15

SINK-FLOAT ANALYSES						
S. G. FRACTION	3/4" x 28M					
				CUMULATIVE		
	WT. %	ASH %	F.S.I.	WT. %	ASH %	F.S.I.
- 1.30	42.7	2.5	9	42.7	2.5	9
1.30 - 1.35	19.1	5.7	5 1/2	61.8	3.5	7 1/2
1.35 - 1.40	8.2	11.0	4	70.0	4.4	7
1.40 - 1.45	3.9	16.0	3 1/2	73.9	5.0	6 1/2
1.45 - 1.50	2.0	22.9	2 1/2	75.9	5.5	6 1/2
1.50 - 1.60	3.8	29.3	2	79.7	6.6	6
1.60 - 1.70	2.6	37.1	1 1/2	82.3	7.6	5 1/2
1.70 - 1.80	2.5	44.6	1 1/2	84.8	8.6	5 1/2
1.80 - 1.90	1.6	51.6	1	86.4	9.4	5
+ 1.90	13.6	78.1	1/2	100.0	18.8	5

TABLE 16

SINK-FLOAT ANALYSES						
S. G. FRACTION	28M x 65M					
				CUMULATIVE		
	WT. %	ASH %	F.S.I.	WT. %	ASH %	F.S.I.
- 1.30	54.5	2.0	9+	54.5	2.0	9 +
1.30 - 1.35	16.7	5.6	7	71.2	2.8	9
1.35 - 1.40	5.9	10.5	3	77.1	3.4	8 1/2
1.40 - 1.45	2.8	15.7	2	79.9	3.9	8 1/2
1.45 - 1.50	2.0	21.1	1 1/2	81.9	4.3	8
1.50 - 1.60	3.9	28.8	1 1/2	85.8	5.4	7 1/2
1.60 - 1.70	2.3	38.0	1	88.1	6.2	7 1/2
1.70 - 1.80	2.3	46.3	1	90.4	7.3	7
1.80 - 1.90	0.8	53.2	1	91.2	7.7	7
+ 1.90	8.8	76.2	1/2	100.0	13.7	6 1/2

Figure 12

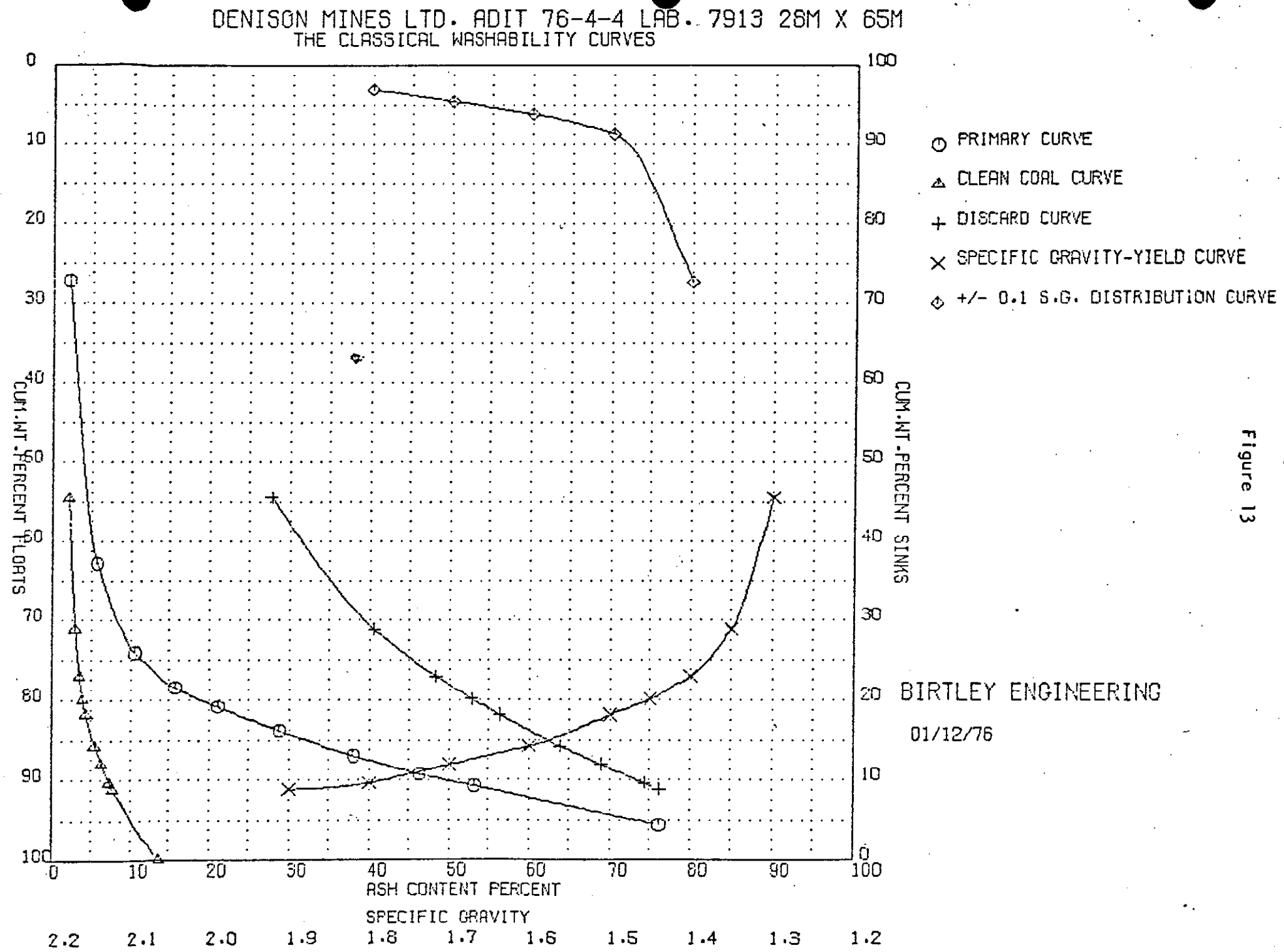

DENISON MINES LTD. ADIT 76-4-4 LAB. 7913 3/4' X 28M
THE CLASSICAL WASHABILITY CURVES
PRIMARY CURVE
CLEAN COAL CURVE
DISCARD CURVE
SPECIFIC GRAVITY-YIELD CURVE
+/- 0.1 S.G. DISTRIBUTION CURVE
CUM.WT.PERCENT FLOATS
CUM.WT.PERCENT SINKS
ASH CONTENT PERCENT
SPECIFIC GRAVITY
0 10 20 30 40 50 60 70 80 90 100
2.2 2.1 2.0 1.9 1.8 1.7 1.6 1.5 1.4 1.3 1.2
BIRTLEY ENGINEERING
01/12/76

DENISON MINES LTD. ADIT 76-4-4 LAB.7913 3/4" X 28M

--DIRECT--					--CUM FLOATS--			--CUM SINKS--		+-0.1 DISTR	
S.G.	WT>	ASH>	WT> ASH TT	CUM WT> ASHTT	WT>	ASH>	SINK WT ASH>	WT>	ASH>	S.G.	WT>
1	2	3	4	5	6	7	8	9	10	11	12
1.30	42.70	2.50	1.07	1.07	42.70	2.50	17.71	57.30	30.91	1.30	0.00
1.35	19.10	5.70	1.09	2.16	61.80	3.49	16.62	38.20	43.52	1.40	33.20
1.40	8.20	11.00	.90	3.06	70.00	4.37	15.72	30.00	52.41	1.50	9.70
1.45	3.90	16.00	.62	3.68	73.90	4.98	15.10	26.10	57.85	1.60	6.40
1.50	2.00	22.90	.46	4.14	75.90	5.45	14.64	24.10	60.75	1.70	5.10
1.60	3.80	29.30	1.11	5.25	79.70	6.59	13.53	20.30	66.63	1.80	4.10
1.70	2.60	37.10	.96	6.22	82.30	7.56	12.56	17.70	70.97	1.90	0.00
1.80	2.50	44.60	1.12	7.33	84.80	8.65	11.45	15.20	75.31	2.00	0.00
1.90	1.60	51.60	.83	8.16	86.40	9.44	10.62	13.60	78.10	2.10	0.00
9.99	13.60	78.10	10.62	18.78	100.00	18.78	0.00	.00	0.00	2.20	0.00

BIRTLEY ENGINEERING
02/12/76

Figure 13

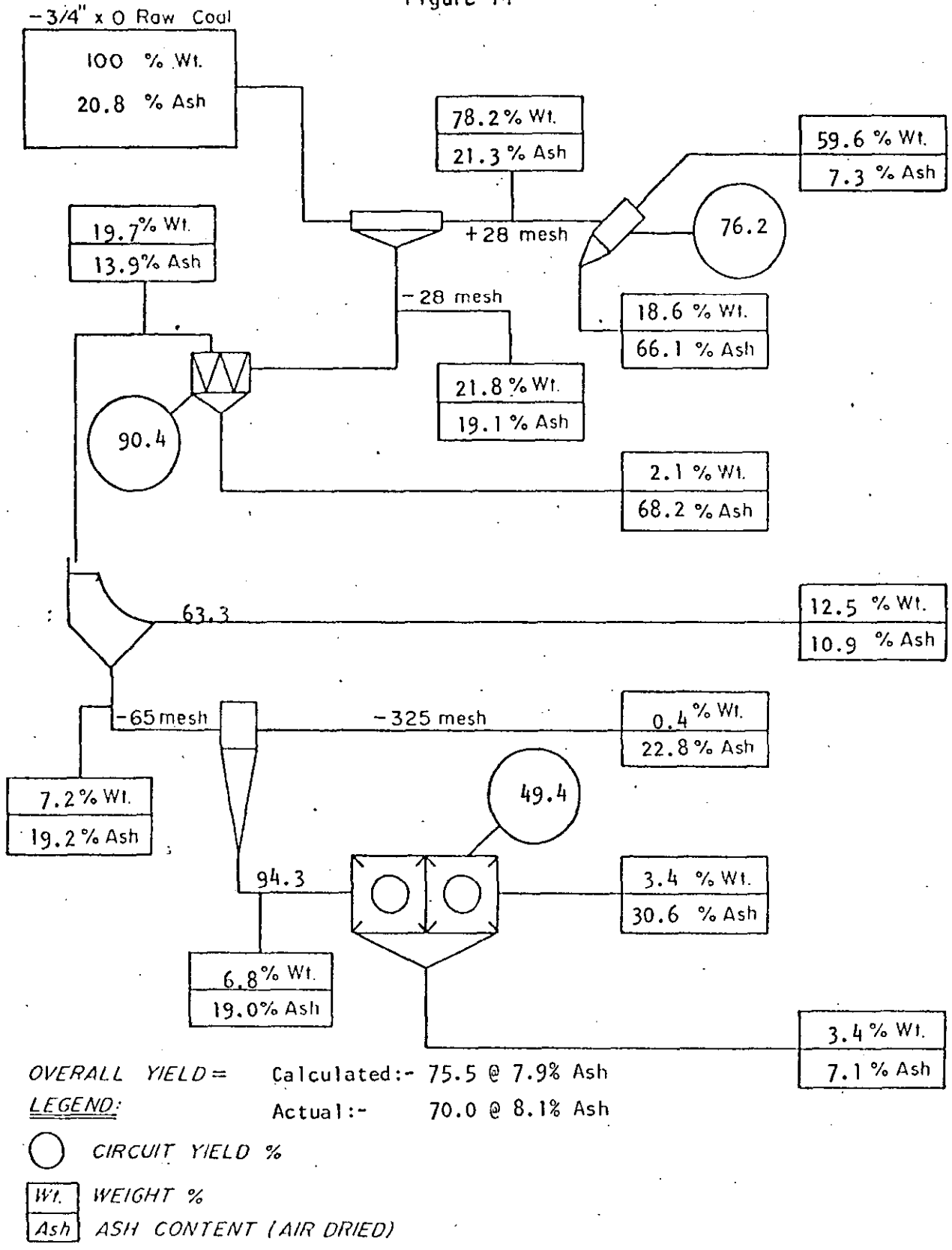

DENISON MINES LTD. ADIT 76-4-4 LAB. 7913 28M X 65M
THE CLASSICAL WASHABILITY CURVES
PRIMARY CURVE
CLEAN COAL CURVE
DISCARD CURVE
SPECIFIC GRAVITY-YIELD CURVE
+/- 0.1 S.G. DISTRIBUTION CURVE
CUM.WT.-PERCENT FLOATS
CUM.WT.-PERCENT SINKS
ASH CONTENT PERCENT
SPECIFIC GRAVITY
2.2 2.1 2.0 1.9 1.8 1.7 1.6 1.5 1.4 1.3 1.2
BIRTLEY ENGINEERING
01/12/76

DENISON MINES LTD. ADIT 76-4-4 LAB.7913 28M X 65M

--DIRECT--					--CUM FLOATS--			--CUM SINKS--		+-0.1 DISTR	
S.G.	WT>	ASH>	WT> ASH TT	CUM WT> ASHTT	WT>	ASH>	SINK WT ASH>	WT>	ASH>	S.G.	WT>
1	2	3	4	5	6	7	8	9	10	11	12
1.30	54.50	2.00	1.09	1.09	54.50	2.00	12.61	45.50	27.71	1.30	0.00
1.35	16.70	5.60	.94	2.03	71.20	2.84	11.67	28.80	40.54	1.40	27.40
1.40	5.90	10.50	.62	2.64	77.10	3.43	11.05	22.90	48.27	1.50	8.70
1.45	2.80	15.70	.44	3.08	79.90	3.86	10.62	20.10	52.81	1.60	6.20
1.50	2.00	21.10	.42	3.51	81.90	4.28	10.19	18.10	56.32	1.70	4.60
1.60	3.90	28.80	1.12	4.63	85.80	5.40	9.07	14.20	63.87	1.80	3.10
1.70	2.30	38.00	.87	5.50	88.10	6.25	8.20	11.90	68.87	1.90	0.00
1.80	2.30	46.30	1.06	6.57	90.40	7.27	7.13	9.60	74.28	2.00	0.00
1.90	.80	53.20	.43	6.99	91.20	7.67	6.71	8.80	76.20	2.10	0.00
9.99	8.80	76.20	6.71	13.70	100.00	13.70	0.00	0.00	0.00	2.20	0.00

BIRTLEY ENGINEERING
02/12/76

Figure 14



OVERALL YIELD = Calculated:- 75.5 @ 7.9% Ash

Actual:- 70.0 @ 8.1% Ash

LEGEND:

○ *CIRCUIT YIELD %*

Wt.	*WEIGHT %*
Ash	*ASH CONTENT (AIR DRIED)*

BIRTLEY ENGINEERING (CANADA) LTD.

Title	PLANT BALANCE SHEET DENISON MINES LTD. ADIT# 76 - 4 - 4 LAB. # 7912	Date Drawn

DENISON MINES LTD.

BIRTLEY ENGINEERING (CANADA) LTD.

Coal Science & Minerals Testing Div.

BULK WASHING DATA*

ADIT/SEAM 76 - 4 -4 LAB. NO. 7912 DATE OF WASH Dec.2/76

Raw Coal Analysis: ADM 8.0 Ash% 18.6 F.S.I. 6 H.G.I. _____

Delivered Bulk Weight 8.461 Metric Tons

Washed Weight 7.255 Metric Tons

*All weight and analyses are on Air Dried Basis unless otherwise indicated.

DENISON MINES LTD.

BULK WASHING DATA

HEAVY MEDIUM CIRCUIT

ADIT/SEAM NO. 76 - 4 - 4 LAB. NO. 7912

1. S. G. of Separation 1.60

2. Feed Ash Content 21.3 % F.S.I. 4

3. Clean Coal Estimated Weight 4.148 M.T.

4. Clean Coal Analysis - Ash 7.0 % F.S.I. 7 1/2

5. Reject Estimated Weight 1.525 M.T.

6. Reject Analysis - Ash 66.1 % F.S.I. 1

7. Estimated 3/4" x 28M in Circuit 5.673 M.T. 78.2 Wt.%

8. Yield Clean Coal (Weighted): $\frac{3}{3 + 5}$ 73.1 %

9. Yield Clean Coal (Calculated Ash Balance) - $\frac{6 - 2}{6 - 4}$ 75.8 %

DENISON MINES LTD.

BULK WASHING DATA

WATER ONLY CYCLONE CIRCUIT

ADIT/SEAM NO. 76 - 4 - 4 LAB. NO. 7912

1. Vortex Finder Clearance (VFC) #2 - 2.5 / #1 - 1.3 CM 1.0 / .5 Inches

2. Feed Pressure #2 - .4 / #1 - 1.4 KG/CM^2 5 / 20 P.S.I.

3. Feed Rate #2 - 5.8 / #1 - 23.2 M^3/Hr. 21.2 / 8.5 LG/Min.

4. Feed Pulp Density 110-140 g/l. 11-14 Solids W/V

5. Sample Analysis:-

	SCREEN SIZE	WT. %	ASH %	F.S.I.	CUM-WT. %	CUM ASH %	HEAD ASH	HEAD F.S.I.
FEED							19.1	7
O'FLOW	+65M	63.7	12.3	7	63.7	12.3		
	65M XO	36.3	19.2	6 1/2	100.0	14.8	13.9	7
U'FLOW							68.2	1
S B O							10.9	8
T C O*								
							22.8	1

6. Yield - Total W.O. Cuclone Circuit = 90.4

7. Est. Yield of 28 X 65 Mesh Coal = 57.6
(as % of 28 Mesh X 0 Feed)

8. Est. 28M X 0 in circuit (Plant Feed - HM Products) 1.582 M.T. 21.8 %

DENISON MINES LTD.

BULK WASHING DATA

FROTH FLOTATION CIRCUIT

ADIT/SEAM NO. 76 - 4 - 4 LAB. NO. 7912

1. Reagents: Kerosene:Methylisobutylcarbinol (MIBC)

2. Feed Pulp Density 100 - 150 g/l 10 - 15 % Solids W/V

3. Sample Analysis:-

	ASH	F.S.I.
FEED	19.0	7 1/2
CONC.	7.1	8
TAILS	30.6	4 1/2

4. Impeller Type - Birtley-Humboldt Multi-Wobble.

5. Yield Calculated (Ash Balance) 49.4 %

6. Filter Cake (Sieve Bend O'Flow & Flotation Conc.)
Wt. Recovered .929 M.T.

7. Filter Cake - Ash% 10.1 F.S.I. 7 1/2

DENISON MINES LTD.

BULK WASHING DATA

ADIT/SEAM NO. 76 - 4 - 4 LAB. NO. 7912 DATE OF WASH Dec. 2/76

a) Raw Coal

Delivered Weight	= 8.461	M.T.
Ash %	= 18.6	
F.S.I.	= 6	
Estimated Washed Wt.	= 7.255	M.T.

b) Heavy Media Circuit

Estimated Proportion of +28 Mesh in Feed 78.2%

Effective S.G. = 1.60

Raw Feed	21.3	% Ash	4	F.S.I.
Clean Coal	7.0	% Ash	7 1/2	F.S.I.
Reject	66.1	% Ash	1	F.S.I.
Calculated Yield	75.8			
Weighed Yield	73.1			

c) Water-Only Cyclone Circuit

Raw Feed	19.1	% Ash	7	F.S.I.
Overflow	13.9	% Ash	7 1/2	F.S.I.
Underflow	68.2	% Ash	1	F.S.I.
Calculated Yield	90.4			
% of +65M in O/F	63.7			
Sieve Bend Overflow	10.9	% Ash	8	F.S.I.

d) Froth Flotation Circuit

Raw Feed	19.0	% Ash	7 1/2	F.S.I.
Concentrates	7.1	% Ash	8	F.S.I.
Tails	30.6	% Ash	4 1/2	F.S.I.
Calculated Yield	49.4%			

DENISON MINES LTD.

BULK WASHING DATA

BULK WASHING SUMMARY (cont.)

ADIT/SEAM NO. 76 - 4 -4 LAB. NO. 7912

e) Clean Coal Mix Analyses

i) Proximate

ADM% 7.9 RM% 0.6 ASH% 7.9 VM% 23.8 FC% 67.7 S% 0.41 F.S.I. 7 1/2

BTU 14,395 H.G.I. 87

ii) Dilatometer

Softening °C 381 Max. Dil. °C 451 Max. Cont. % 21

Max. Dil. % 67 G. No. = 1.046

f) Clean Coal Mix Make Up.

H.M. CLEAN COAL	FINES FILTER CAKE	CLEAN COAL MIX		SHIPPED		IN STOCK	
M.T.	M.T.	BBLS.	M.T.	BBLS.	M.T.	BBLS.	M.T.
4.148	.929	---	5,077	---	---	27	4,725

1

Lab. No. 7912 Date Dec. 16/76

Client: DENISON MINES LTD.

Sample Identification: ADIT#76-4-4 CLEAN COAL

Starting Temperature °C: 350

Softening Temperature °C: 381

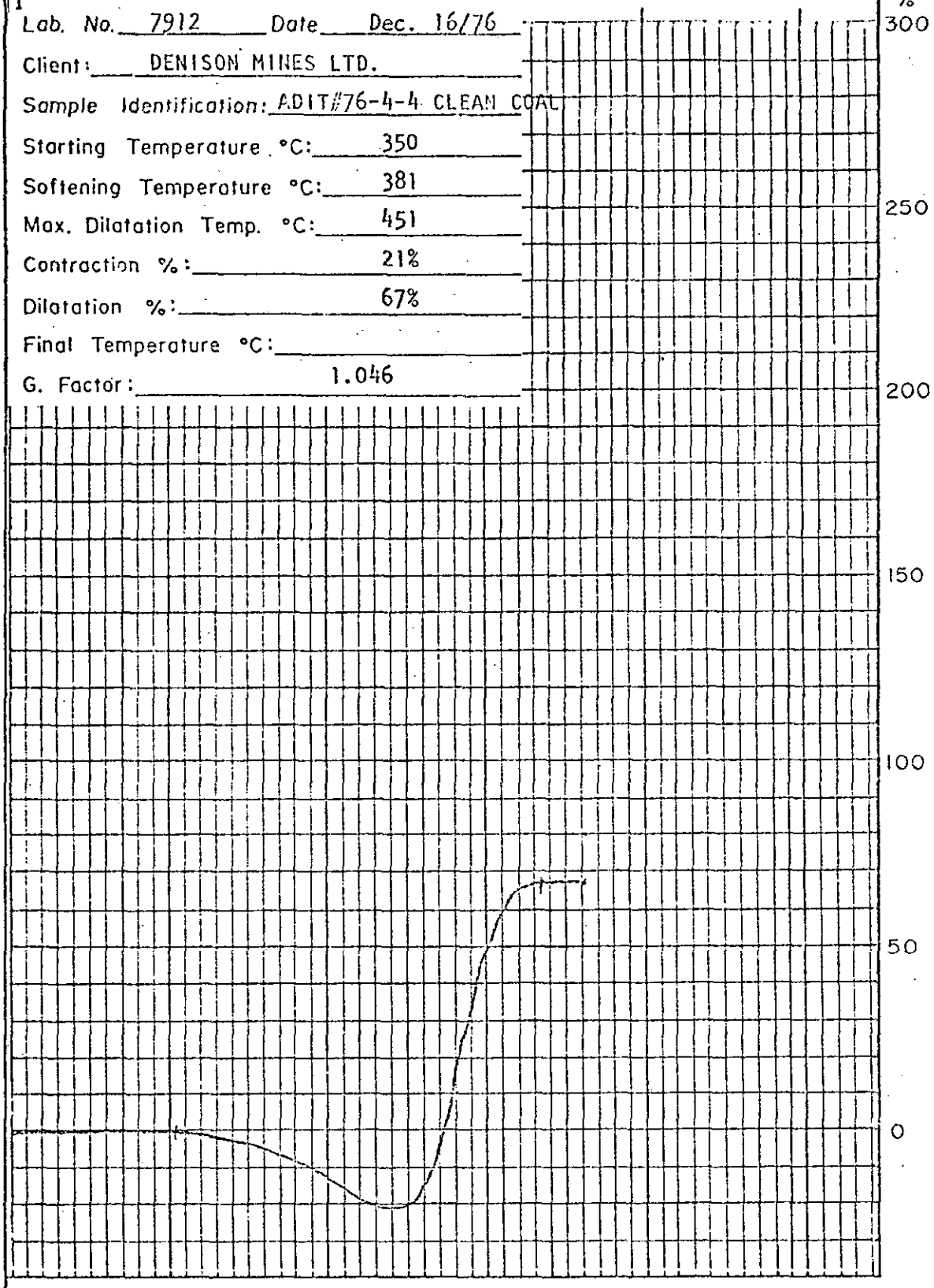
Max. Dilatation Temp. °C: 451

Contraction %: 21%

Dilatation %: 67%

Final Temperature °C:

G. Factor: 1.046



BIRTLEY ENGINEERING (CANADA) LTD.

Title	Date
RUHR DILATOMETER TEST Figure 15	Dec. 16/76
	Drawn

CLIENT: DENISON MINES LTD.

TABLE 17

SAMPLE: ADIT# 76 4 - 4

LAB NO.: 7912

CLEAN COAL HOMOGENIZATION

ANALYSIS OF "QUARTERED" COAL PILES

	INCREMENT NO.	SITE NO.	RESIDUAL MOISTURE	ASH%	F.S.I.	ASH% DRY BASIS
	1	A	1.5	7.5	7	7.6
	1	B	0.5	7.8	7 1/2	7.8
	1	C	0.6	8.1	7 1/2	8.1
	1	D	1.4	7.7	7	7.8
	2	A	1.5	8.1	7	8.2
	2	B	1.0	7.8	7 1/2	7.9
	2	C	0.5	8.0	6 1/2	8.0
	2	D	1.1	7.9	7 1/2	8.0
	3	A	1.5	7.6	6 1/2	7.7
	3	B	1.6	7.8	6 1/2	7.9
	3	C	1.6	7.9	7	8.0
	3	D	1.5	7.6	8	7.7
	4	A	1.5	7.6	7 1/2	7.7
	4	B	1.4	8.0	6 1/2	8.1
	4	C	0.5	8.1	7	8.1
	4	D	0.5	7.7	8	7.7

CLIENT: DENISON MINES LTD.

SAMPLE: ADIT# 76 -4 - 4

LAB NO.: 7912

TABLE 18

ANALYSIS OF PACKED BARRELS OF CLEAN COAL

BARREL NO.	RESIDUAL MOISTURE	ASH	VOL.	F.C.	S%	F.S.I.	CALC. FACTORS
1	0.4	8.0	23.9	67.7	.41	7 1/2	A.D.B.
		8.03	24.0	67.97	.41		D.B.
2	0.4	8.0	23.9	67.7	.43	7 1/2	A.D.B.
		8.03	24.0	67.97	.43		D.B.
3	0.3	8.2	24.2	67.3	.43	7 1/2	A.D.B.
		8.23	24.27	67.50	.43		D.B.
4	0.3	8.2	24.3	67.2	.40	7	A.D.B.
		8.23	24.37	67.40	.40		D.B.
5	0.5	8.2	23.9	67.4	.43	7 1/2	A.D.B.
		8.24	24.02	67.74	.43		D.B.
6	0.4	7.9	24.3	67.4	.40	7 1/2	A.D.B.
		7.93	24.40	67.67	.40		D.B.
7	0.5	7.9	23.9	67.7	.43	7 1/2	A.D.B.
		7.94	24.02	68.04	.43		D.B.
8	0.6	8.1	23.8	67.5	.41	7 1/2	A.D.B.
		8.15	23.94	67.91	.41		D.B.
9	0.6	8.2	23.8	67.4	.41	7 1/2	A.D.B.
		8.25	23.94	67.81	.41		D.B.

CLIENT: DENISON MINES LTD.

SAMPLE: ADIT# 76 - 4 - 4

LAB NO.: 7912

TABLE 18 (cont.)

ANALYSIS OF PACKED BARRELS OF CLEAN COAL

BARREL NO.	RESIDUAL MOISTURE	ASH	VOL.	F.C.	S%	F.S.I.	CALC. FACTORS
10	0.6	8.1	23.8	67.5	.41	7 1/2	A.D.B.
		8.15	23.94	67.91	.41		D.B.
11	0.7	8.0	23.6	67.7	.40	8	A.D.B.
		8.05	23.77	68.18	.40		D.B.
12	0.3	8.2	24.1	67.4	.40	7 1/2	A.D.B.
		8.23	24.17	67.50			D.B.
13	0.6	8.2	24.0	67.2	.43	7 1/2	A.D.B.
		8.25	24.14	67.61			D.B.
14	0.6	8.2	23.7	67.5	.45	7 1/2	A.D.B.
		8.25	23.84	67.91			D.B.
15	0.7	8.2	23.6	67.5	.41	8	A.D.B.
		8.26	23.77	67.97			D.B.
16	0.7	8.1	23.6	67.6	.43	7 1/2	A.D.B.
		8.16	23.77	68.07			D.B.
17	0.6	8.0	23.7	67.7	.45	7 1/2	A.D.B.
		8.05	23.84	68.11			D.B.
18	0.9	7.9	23.8	67.4	.46	7 1/2	A.D.B.
		7.97	24.02	68.01			D.B.

CLIENT: DENISON MINES LTD.
SAMPLE: ADIT# 76 - 4 - 4
LAB NO.: 7912

TABLE 18 (cont.)

BARREL NO.	RESIDUAL MOISTURE	ASH	VOL.	F.C.	S%	F.S.I.	CALC.
19	1.0	7.9	23.7	.47	.47	7 1/2	A.D.B.
		7.98	23.94	68.08			D.B.
20	1.3	7.8	23.0	67.9	.43	7 1/2	A.D.B.
		7.90	23.30	68.80			D.B.
21	1.0	8.1	23.6	67.3	.41	7 1/2	A.D.B.
		8.18	23.84	67.98			D.B.
22	0.9	8.2	23.5	67.4	.43	7 1/2	A.D.B.
		8.27	23.71	68.01			D.B.
23	0.9	8.1	23.5	67.5	.43	7 1/2	A.D.B.
		8.18	23.71	68.11			D.B.
24	0.6	8.0	23.8	67.6	.39	8	A.D.B.
		8.05	23.94	68.01			D.B.
25	0.6	8.2	23.9	67.3	.43	7 1/2	A.D.B.
		8.25	24.04	67.71			D.B.
26	0.9	7.8	23.6	67.7	.41	7	A.D.B.
		7.87	23.81	68.32			D.B.
27	0.5	8.2	23.8	67.5	.41	7 1/2	A.D.B.
		8.24	23.92	67.84			D.B.

COMMENTS AND CONCLUSIONS

The very low froth tailings ash contents merited some research to determine whether the coal was not amenable to frothing or whether operator judgement was at fault. The laboratory froth tests indicated a good yield but with a relatively high tailings ash, so similar results should have been expected from the pilot plant run. The requirement for a low ash clean coal product was the apparent reason for not pulling a heavier froth.

To research the problem, a sample of the froth flotation tails from each plant wash was re-frothed in the laboratory cell using the same parameters as for the 65M x 0 washability samples.

The results of these tests (TABLES 19,20) clearly show that a much higher recovery of good quality coal could have been achieved in the plant froth circuit. This statement must be qualified, however, by mentioning that the high recovery of coal from the tailings could have been enhanced by a pre-conditioning effect of the kerosene during the plant run. This would simulate a scrubber froth circuit arrangement.

Nevertheless, there is indication that froth flotation should produce an acceptable low ash concentrate and a high yield with an elevated tailings ash content indicating good recovery.

CLIENT: DENISON MINES LTD.

SAMPLE: SAXON PROJECT

LAB. NO.:

TABLE 19

RESEARCH FROTH FLOTATION TESTS

PILOT PLANT FROTH FLOTATION SUMMARY (A)

ADIT	FEED		CONC.		TAILS		YIELD
	ASH%	F.S.I.	ASH%	F.S.I.	ASH%	F.S.I.	
76-4-1 LAB. NO. 7880	21.3	7	7.5	9	32.0	4	43.7
76-4-4 LAB. NO. 7912	19.0	7 1/2	7.1	8	30.6	4 1/2	49.4
76-4-2 LAB. NO. 7955	14.6	7 1/2	8.6	8	31.3	4 1/2	73.6

TABLE 20

REFROTH OF PILOT PLANT TAILING(B)

ADIT	FEED		CONC.		YIELD%	YIELD (CALC.) A + B	CONC. ASH% A + B	TAILS ASH% A + B
	ASH%	F.S.I.	ASH%	F.S.I.				
76-4-1 LAB.NO. 7880	32.0	4	16.3	7	54.1	74.1	11.1	50.5
76-4-4 LAB. NO. 7912	30.6	4 1/2	15.5	7 1/2	75.0	87.4	10.8	75.9
76-4-2 LAB.NO. 7955	31.3	4 1/2	13.5	8	68.8	91.8	9.6	80.4

8.0 COAL QUALITY

The analytical results for the drill cores and adits are presented in this section of the draft report without comment as the complete study of the analytical data is not yet complete.

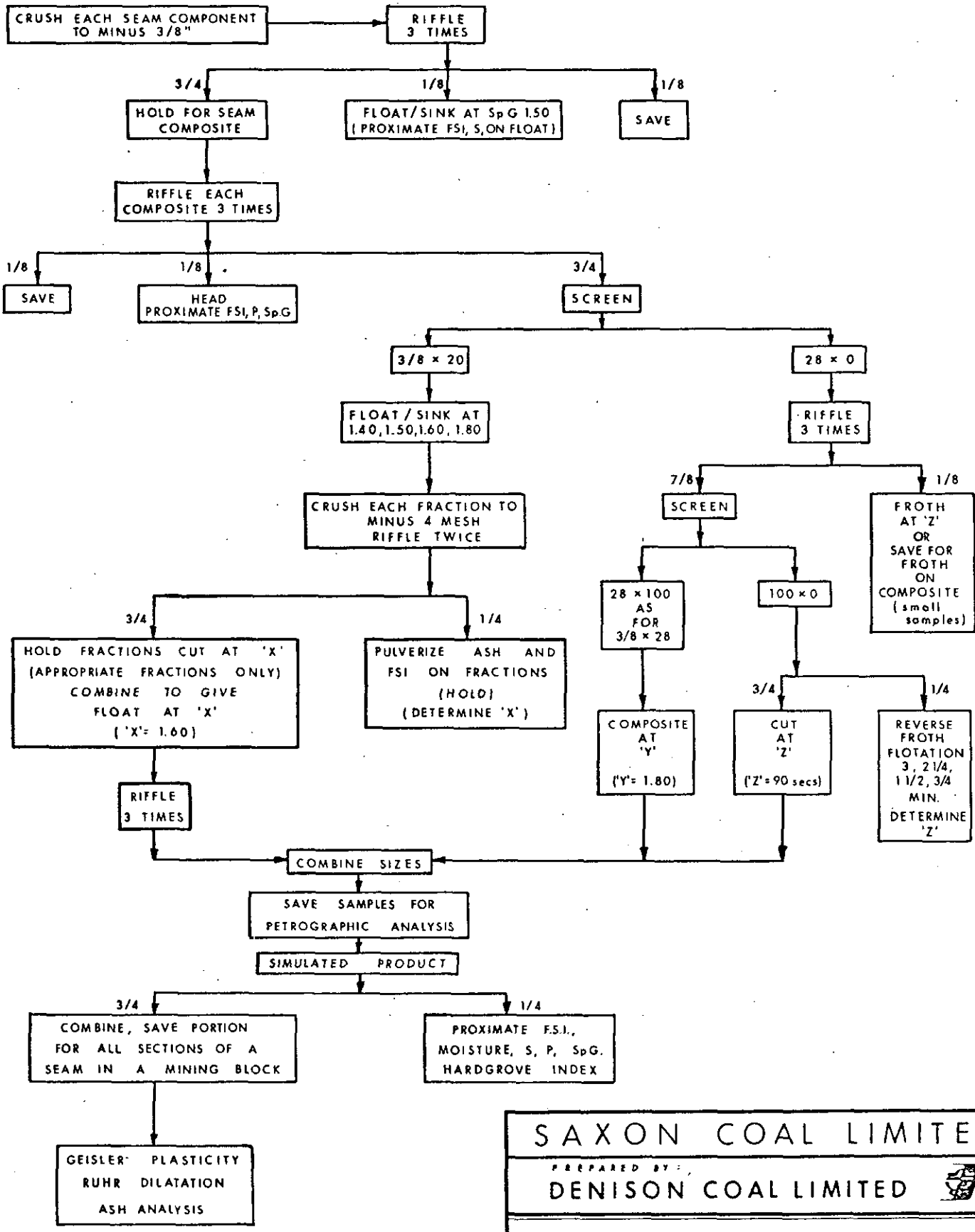
Generally, the analyses have shown that the coal quality in Saxon East is about the same as we had originally anticipated, although the volatile content of seam 4 in the first hydraulic mining block south of Saxon Creek may be lower (about 20% at 7.5% ash).

In Saxon South, the volatile contents of the main seams range from about 21% to 27%, but the average product is expected to range from 23% to 25%.

All of the seams have good F.S.I.'s; ranging generally from 6 to 7 1/2. Data from the coke tests has not yet been received.

The average clean coal yield, uncorrected for core loss if 74%.

Appendices VIII and IX contain the core sample and adit washability results respectively.



SAXON COAL LIMITED

PREPARED BY:

DENISON COAL LIMITED

PROCEDURE FOR ANALYSIS of COAL CORE SAMPLES

DRAWN BY: C.A.M.	DATE: JAN., 1977	SCALE:
PREP'D BY:	DATE:	DRAWING NUMBER: SXON 77-0719-R01
APPR'D BY:	DATE:	

Warnock Hersey Professional Services Ltd.
PROXIMATE DATA SHEET

Denison Composite Clean Coal

3/8 x 28M - 1.60 Flt.
28 x 100M - 1.80 Flt.
100 X 90 Sec. Froth

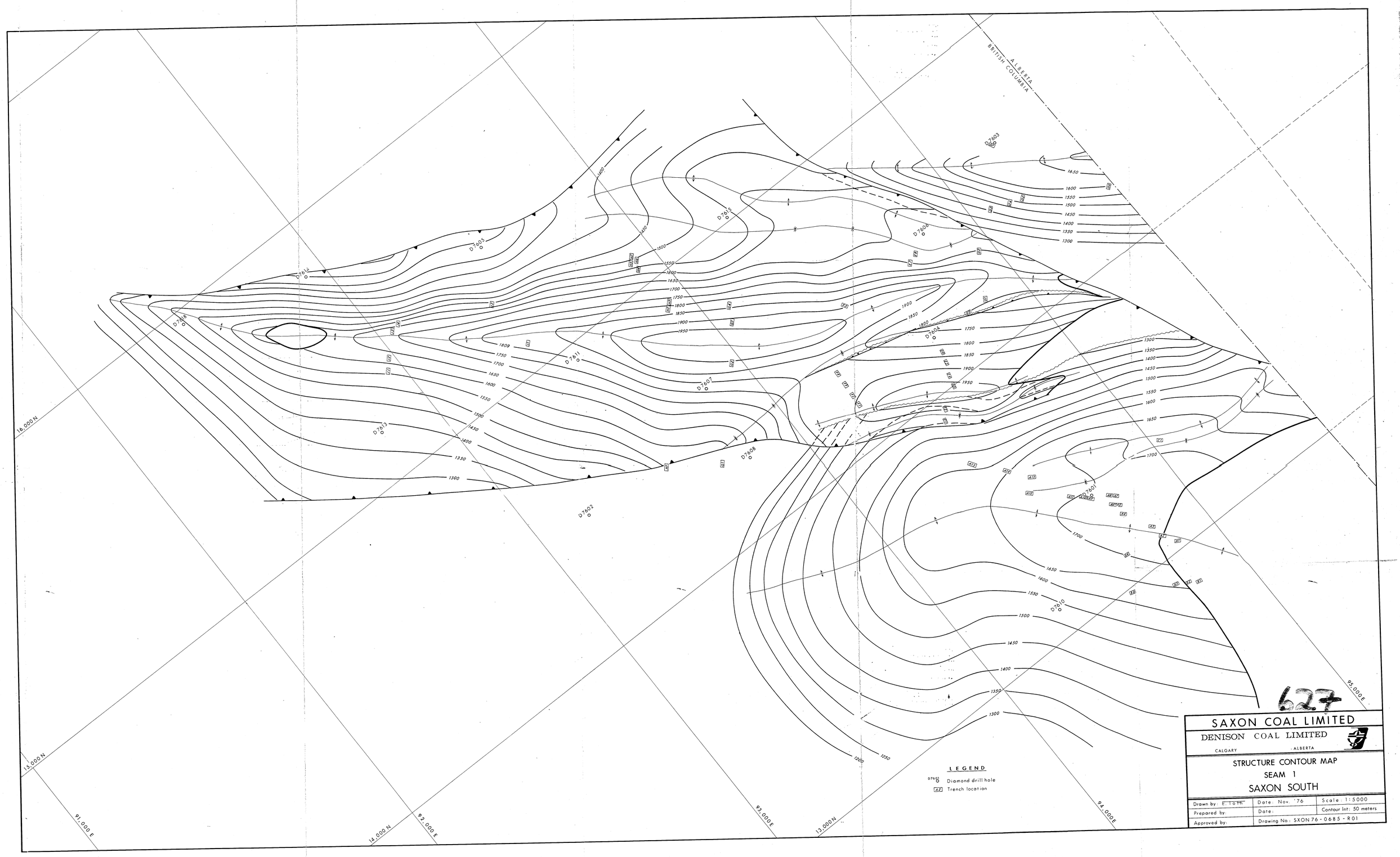
Sample I.D.			Factor	AS RUN									DRY BASIS			D.A.F. BASIS					
Well	Seam	Lab. No.		M.	Ash	V.M.	VM-M	Sulfur	Sulfur Corr.	FSI	Btu.	Btu. Corr.	Ash	V.M.	Btu.	V.M.	Hardgrove Index Clear Coal	Yield WI% Float	Calc Clean Coal Ash	Specific Gravity
7601	1	76-9008		0.73	8.4		21.0	0.46		7			8.5	21.1		23.1	86.7	71.9	9.1	1.30
"	2	76-9009-11		0.75	8.2		23.0	0.52		7½			8.2	23.1		25.2	96.2	68.3	7.5	1.35
"	3A	-9012		0.86	9.2		23.6	0.37		7½			9.3	23.8		26.3	I.S.	54.1	10.2	1.35
"	4	-9013-16		0.82	7.6		24.6	0.64		7½			7.6	24.8		26.9	94.1	65.6	7.0	1.28
"	5	-9017		0.90	8.2		25.0	0.44		6			8.2	25.2		27.4	I.S.	59.9	9.1	1.30
"	8	-9018		1.06	6.3		27.6	0.67		7½			6.3	27.9		29.8	I.S.	88.4	5.3	1.26
7604	4	-9019-22		0.94	6.9		25.6	0.47		6½			7.0	25.8		27.8	89.2	62.4	6.6	1.28
7603	3.0	-9023		0.72	5.9		26.3	0.64		6½			6.0	26.5		28.2	108.7	84.1	5.3	1.26
"	3.1	-9024		0.76	6.5		25.8	0.71		7½			6.6	26.0		27.8	I.S.	77.0	7.3	1.28
7604	1	-1124		0.83	8.5		22.4	0.42		7½			8.5	22.6		24.7	89.2	82.9	8.2	1.35
"	2	-1125-27		0.84	6.8		22.5	0.34		7½			6.8	22.3		24.4	85.8	71.2	7.4	1.28
7606	1	-1128		1.03	9.4		21.1	0.40		6			9.5	21.3		23.5	85.8	77.8	9.6	1.47
"	2	-1129-31		1.28	7.4		22.3	0.47		7½			7.5	22.6		24.5	87.2	61.9	7.9	1.39
"	4	-1132-38		1.33	7.2		23.8	0.37		8			7.3	24.2		26.1	102.3	66.9	7.6	1.35
7607	1	-1139		0.94	10.6		21.4	0.41		4			10.7	24.8		24.2	89.7	76.3	12.1	1.47
"	2	-1140-42		0.95	7.0		24.6	0.43		7			7.1	24.8		26.7	91.3	78.1	7.0	1.32
"	3	-1143		0.96	9.0		23.8	0.68		7½			9.1	24.0		26.4	88.8	69.6	9.2	1.38
"	4	-1144-47		0.89	6.8		25.8	0.42		8			6.8	26.0		27.9	85.8	81.1	6.8	1.33
7608	5	-1148		0.90	8.7		25.4	0.57		8			8.8	25.6		28.1	100.3	79.5	8.8	1.40
7609	1	-1149		0.72	7.6		21.4	0.56		8			7.7	21.6		23.4	I.S.	87.2	8.0	1.40
"	1	-1151		0.72	7.3		20.5	0.47		6½			7.4	20.6		22.2	I.S.	73.3	7.8	1.39
"	2	-1152		0.71	9.0		19.7	0.54		6			9.1	19.9		21.8	102.5	67.6	10.0	1.43
"	4	-1153		0.77	8.9		20.2	0.45		4½			9.0	20.4		22.4	114.3	68.6	8.4	1.42

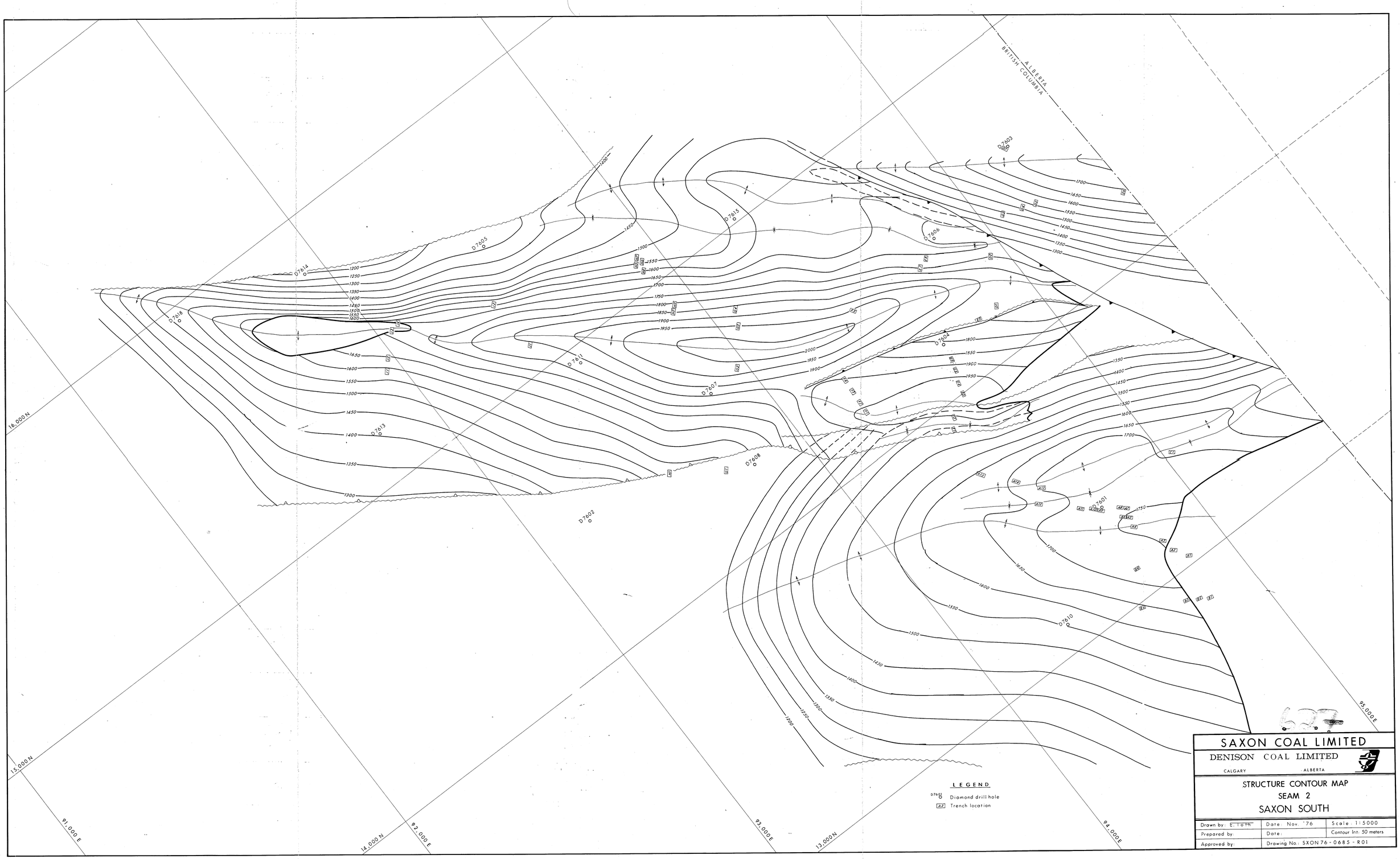
Barnock Hersey Professional Services Ltd.
PROXIMATE DATA SHEET

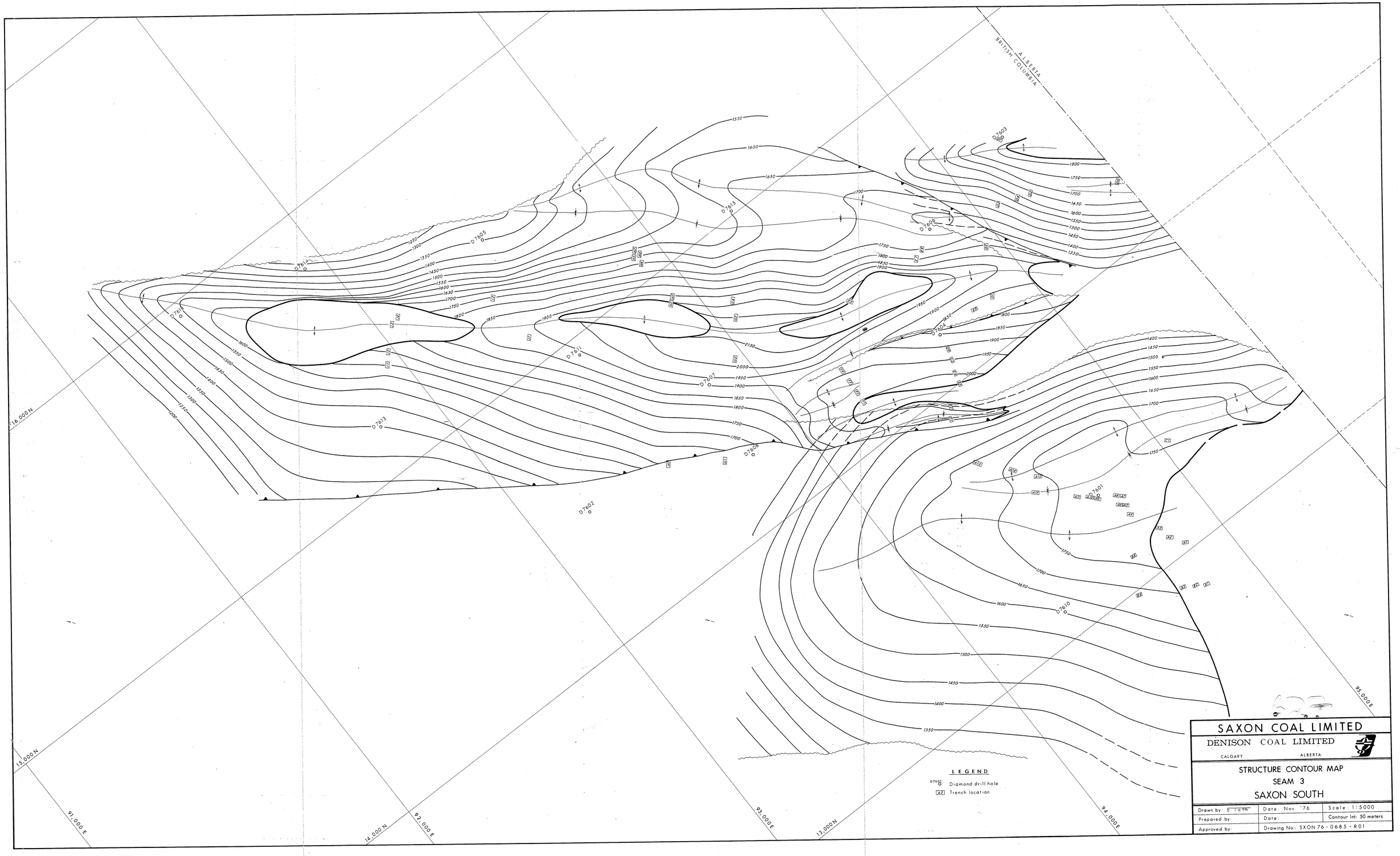
Denison - Composite Clean Coal

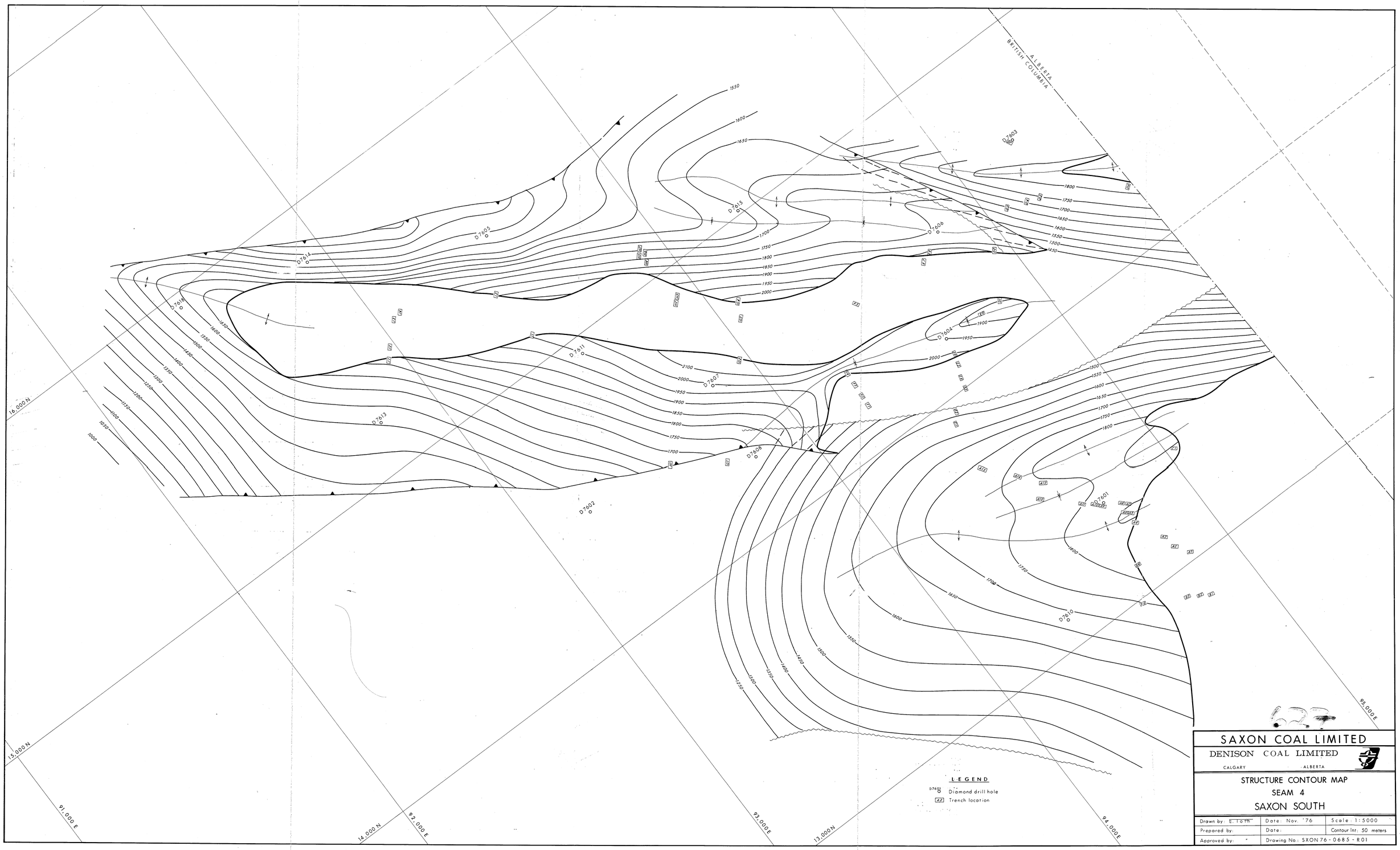
3/8 x 28M - 1.60 FLT.
28 x 100M - 1.80 FLT.
100 X 0 - 90 SEC. FROTH

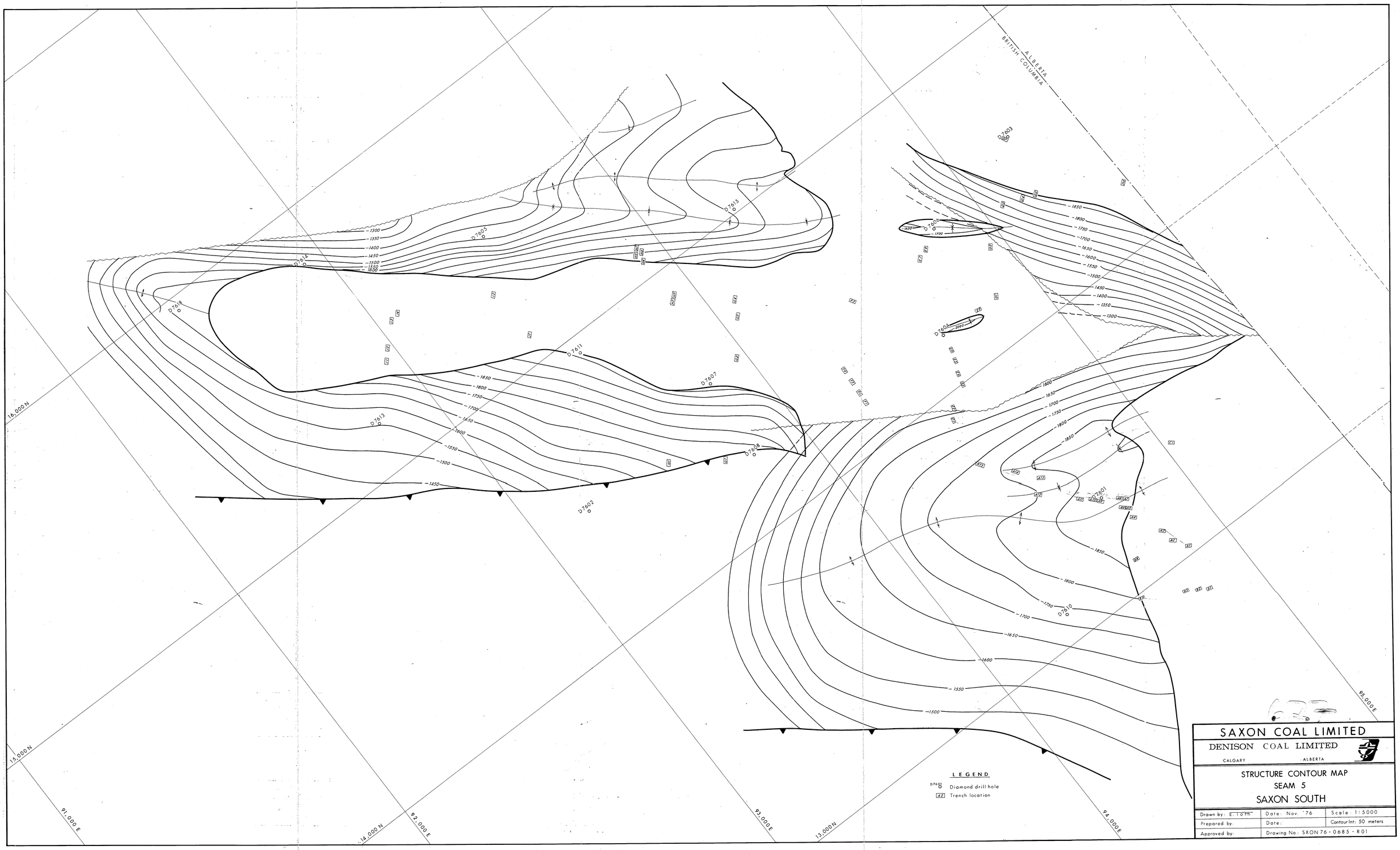
Sample I.D.			Factor	AS RUN								DRY BASIS			D.A.F.		Yield WI% Float	Calc. Clean Coal Ash	Specific Gravity
Well	Seam	Lab. No.		M.	Ash	V.M.	VM-M	Sulfur	Sulfur Corr.	FSI	Btu.	Btu. Corr.	Ash	V.M.	Btu.	V.M.	Hardgrove Index			
7610	2	76-1157-59		0.72	6.9		23.6	0.47		7½			7.0	23.8		25.6	87.8	67.5	6.9	1.35
"	4	-1160		0.70	7.4		25.2	0.41		7			7.5	25.4		27.4	82.3	74.5	7.2	1.38
7611	1	-1163		0.71	9.5		22.5	0.41		7			9.6	22.6		25.0	82.9	74.5	9.6	1.45
"	2	-1164-66		0.80	7.4		23.3	0.38		7½			7.5	23.5		25.4	87.2	78.2	7.5	1.33
"	4	-1167-69		0.90	7.1		25.1	0.36		7½			7.2	25.4		27.3	85.8	75.9	7.4	1.32
7612	1	-1172		0.69	7.3		22.6	0.44		8			7.4	22.3		24.5	I.S.	71.5	7.9	1.30
"	4	-1174		0.72	6.9		22.2	0.60		8½			6.9	22.4		24.0	I.S.	67.7	8.0	1.33
7614	2	-1180		0.85	7.0		22.9	0.35		7½			7.1	23.1		24.9	88.8	89.4	7.3	1.37
"	3	-1181		0.76	9.3		22.9	0.67		7½			9.4	2.31		25.5	95.6	66.8	10.3	1.39
"	4	-1182		0.96	7.4		24.0	0.34		6½			7.4	24.2		26.2	99.3	74.9	7.0	1.34
7615	5	-1183		1.05	6.4		25.3	0.66		8			6.4	25.6		27.3	97.3	88.1	6.0	1.32
"	10	-1184		0.82	5.8		25.5	0.71		7½			5.9	25.8		27.4	101.0	94.8	6.1	1.32
7616	1	-1185		0.89	7.0		24.3	0.39		4½			7.1	24.5		26.4	81.9	88.1	7.8	1.36
"	2	-1186		0.98	8.4		27.3	0.54		8			8.5	25.6		30.1	95.5	64.1	9.1	1.38
"	3	-1187		0.92	6.7		26.6	0.51		6½			6.7	26.9		28.8	86.5	76.4	6.3	1.30
"	5	-1189		0.96	8.1		27.1	0.54		7½			8.2	27.4		29.8	98.6	58.6	8.5	1.35
7617	4	-1191		0.83	8.6		21.0	0.48		5½			8.6	21.2		23.2	98.9	68.5	9.5	1.40
7618	4	-1192-94		0.86	7.5		24.5	0.55		7½			7.6	24.7		26.7	94.1	71.0	7.6	1.33
7619	1	76-11100		0.62	6.0		20.4	0.49		7½			6.0	20.5		21.8	92.7	90.2	5.9	1.30
"	2	-11104		0.78	6.6		22.4	0.60		7			6.6	22.6		24.2	91.5	72.0	7.3	1.32
"	4	-11105-07		0.73	6.4		22.4	0.47		8			6.5	22.5		24.1	97.7	86.9	6.3	1.30
Average All Sam				0.86	7.6		23.6	0.49		7			7.7	23.8		25.8	93.0	74.6	7.8	1.34

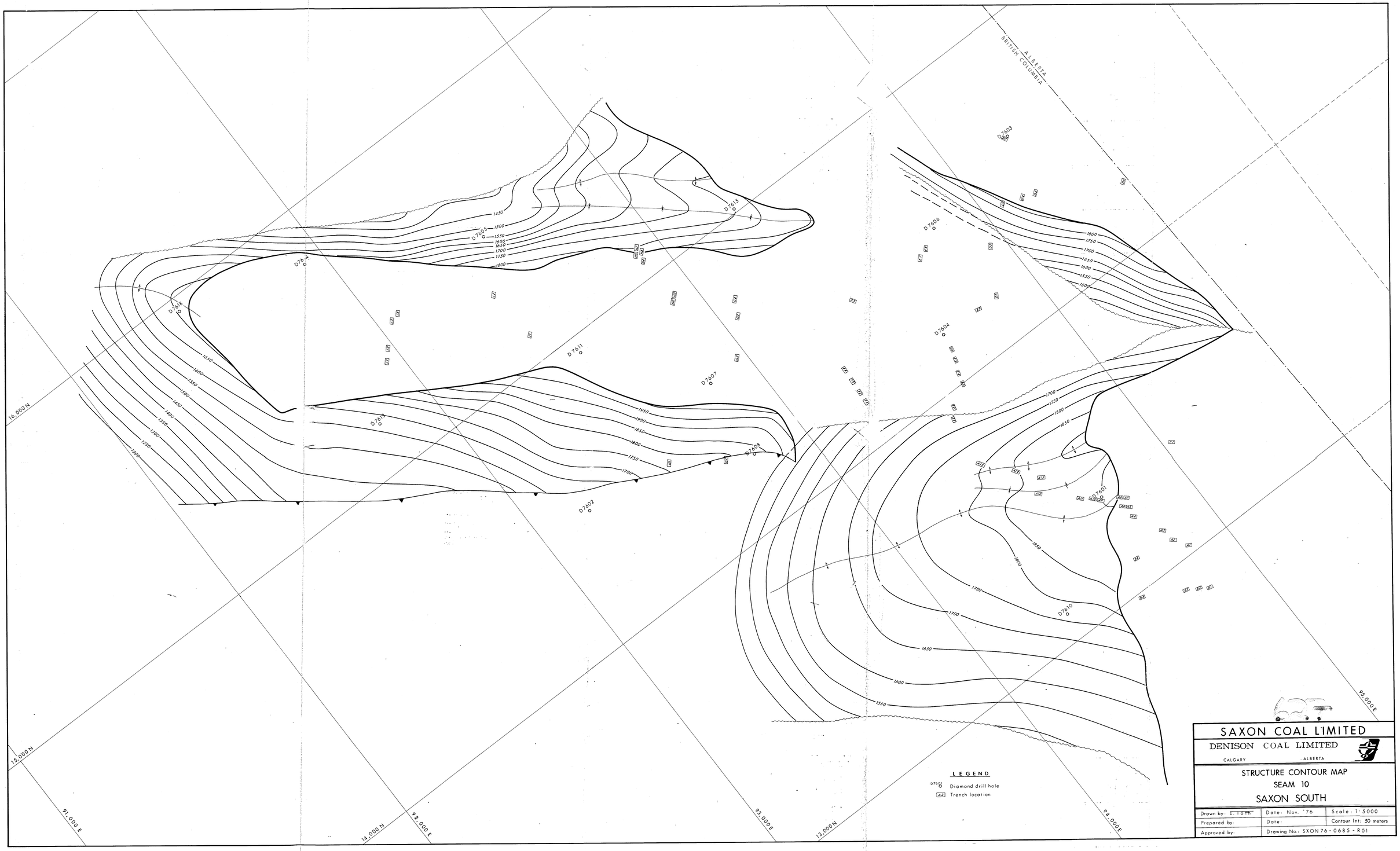

ALBERTA
BRITISH COLUMBIA
D7603
D7605
D7612
D7616
D7615
D7606
D7611
D7607
D7609
D7613
D7608
D7602
D7601
D7610
16,000 N
15,000 N
14,000 N
13,000 N
91,000 E
92,000 E
93,000 E
94,000 E
95,000 E
LEGEND
Diamond drill hole
Trench location
627
SAXON COAL LIMITED
DENISON COAL LIMITED
CALGARY ALBERTA
STRUCTURE CONTOUR MAP
SEAM 1
SAXON SOUTH
Drawn by: E. Toth
Date: Nov. '76
Scale: 1:5000
Prepared by:
Date:
Contour Int: 50 meters
Approved by:
Drawing No.: SXON 76 - 0685 - R01

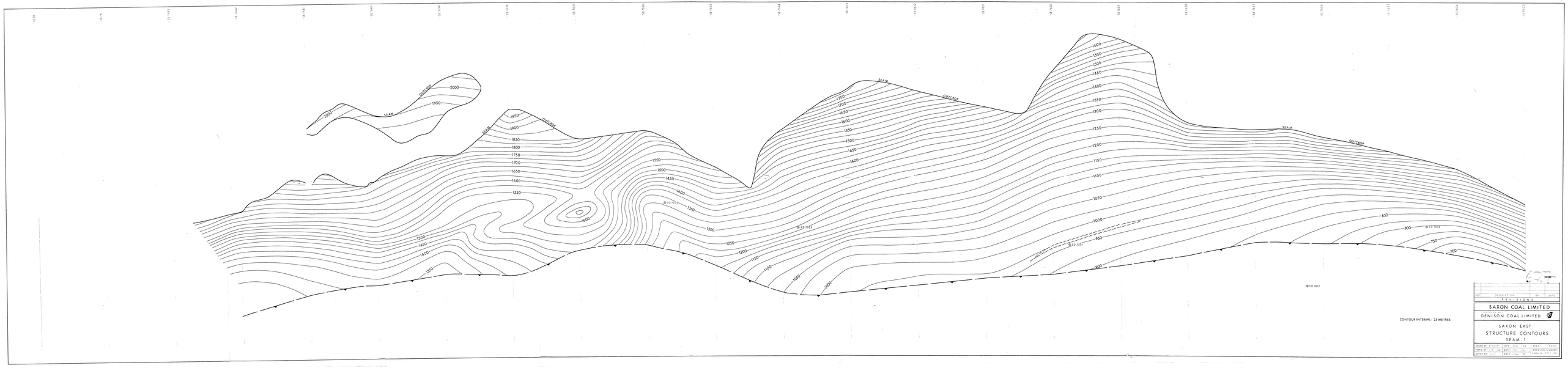

ALBERTA
BRITISH COLUMBIA
16,000 N
15,000 N
14,000 N
91,000 E
92,000 E
93,000 E
94,000 E
95,000 E
D7601
D7602
D7603
D7604
D7605
D7606
D7607
D7608
D7610
D7611
D7613
D7614
D7615
D7618
LEGEND
D7601 Diamond drill hole
A2 Trench location
SAXON COAL LIMITED
DENISON COAL LIMITED
CALGARY ALBERTA
STRUCTURE CONTOUR MAP
SEAM 2
SAXON SOUTH
Drawn by: E. Toth
Date: Nov. '76
Scale: 1:5000
Prepared by:
Date:
Contour Int: 50 meters
Approved by:
Drawing No.: SXON 76 - 0685 - R01


ALBERTA
BRITISH COLUMBIA
16,000 N
15,000 N
14,000 N
13,000 N
91,000 E
92,000 E
93,000 E
94,000 E
95,000 E
D7601
D7602
D7603
D7604
D7605
D7606
D7607
D7608
D7609
D7610
D7611
D7612
D7613
D7614
D7615
LEGEND
D7603 Diamond drill hole
A2 Trench location
SAXON COAL LIMITED
DENISON COAL LIMITED
CALGARY ALBERTA
STRUCTURE CONTOUR MAP
SEAM 3
SAXON SOUTH
Drawn by: E. Toth
Date: Nov. '76
Scale: 1:5000
Prepared by:
Date:
Contour Int: 50 meters
Approved by:
Drawing No.: SXON 76 - 0685 - R01


ALBERTA
BRITISH COLUMBIA
16,000 N
15,000 N
14,000 N
13,000 N
91,000 E
92,000 E
93,000 E
94,000 E
95,000 E
D7601
D7602
D7603
D7604
D7605
D7606
D7607
D7608
D7609
D7610
D7611
D7612
D7613
D7614
D7615
LEGEND
D7601 Diamond drill hole
A7 Trench location
SAXON COAL LIMITED
DENISON COAL LIMITED
CALGARY ALBERTA
STRUCTURE CONTOUR MAP
SEAM 4
SAXON SOUTH
Drawn by: E. Toth
Date: Nov. '76
Scale: 1:5000
Prepared by:
Date:
Contour Int. 50 meters
Approved by:
Drawing No.: SXON 76 - 0685 - R01


ALBERTA
BRITISH COLUMBIA
D 7603
D 7605
D 7615
D 7614
D 7618
D 7611
D 7607
D 7613
D 7608
D 7602
D 7606
D 7601
D 7610
1300
1350
1400
1450
1500
1550
1600
1650
1700
1750
1800
1850
2000
16,000 N
15,000 N
14,000 N
13,000 N
91,000 E
92,000 E
93,000 E
94,000 E
95,000 E
LEGEND
Diamond drill hole
Trench location
SAXON COAL LIMITED
DENISON COAL LIMITED
CALGARY
ALBERTA
STRUCTURE CONTOUR MAP
SEAM 5
SAXON SOUTH
Drawn by: E. Loth
Date: Nov. '76
Scale: 1:5000
Prepared by:
Date:
Contour Int: 50 meters
Approved by:
Drawing No.: SXON 76 - 0685 - R01


ALBERTA
BRITISH COLUMBIA
D 7603
D 7606
D 7604
D 7601
D 7610
D 7615
D 7605
D 7614
D 7608
D 7611
D 7607
D 7612
D 7609
D 7602
1450
1500
1550
1600
1650
1700
1750
1800
1850
1900
1950
1300
1250
1200
1350
1400
1450
1500
1550
1600
1650
16,000 N
15,000 N
14,000 N
13,000 N
91,000 E
92,000 E
93,000 E
94,000 E
95,000 E
LEGEND
D7601 Diamond drill hole
A2 Trench location
SAXON COAL LIMITED
DENISON COAL LIMITED
CALGARY ALBERTA
STRUCTURE CONTOUR MAP
SEAM 10
SAXON SOUTH
Drawn by: E. T. G. Th.
Date: Nov. '76
Scale: 1:5000
Prepared by:
Date:
Contour Int: 50 meters
Approved by:
Drawing No.: SXON 76 - 0685 - R01



CONTOUR INTERVAL: 25 METRES

NO.	DESCRIPTION	BY	DATE
	REVISIONS		

SAXON COAL LIMITED

A SUBSIDIARY OF

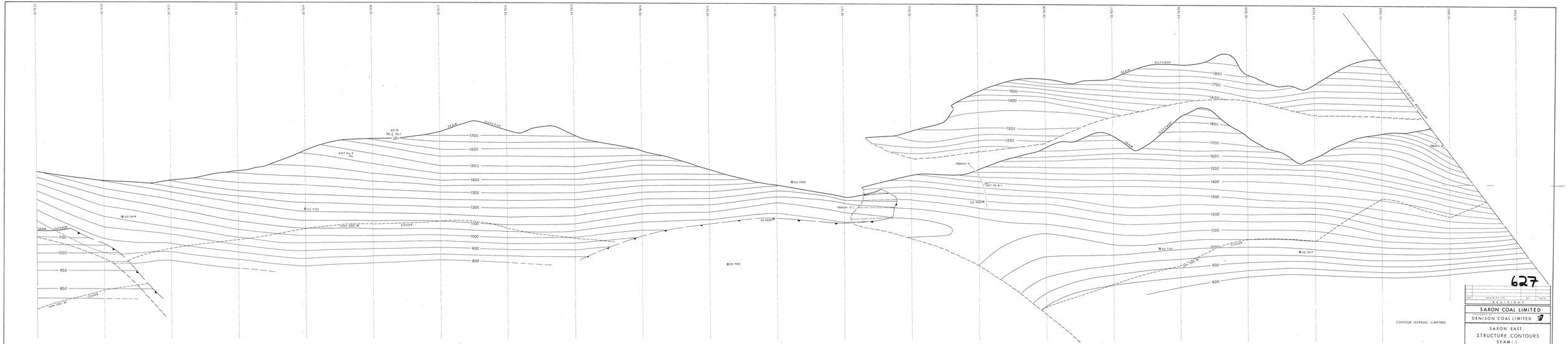
DENISON COAL LIMITED

SAXON EAST

STRUCTURE CONTOURS

SEAM: 1

DRAWN BY: P.T.H.A.P.	DATE: Oct. '79	SCALE: 1:5000	
CHKD BY: J.J.	DATE: Nov. '79	DRAWING NUMBER	
APPD BY: J.J.	DATE: Jan. '80	FROM DWG: 1317-1-4	



627

NO.	DESCRIPTION	BY	DATE
	REVISIONS		

SAXON COAL LIMITED

A SUBSIDIARY OF

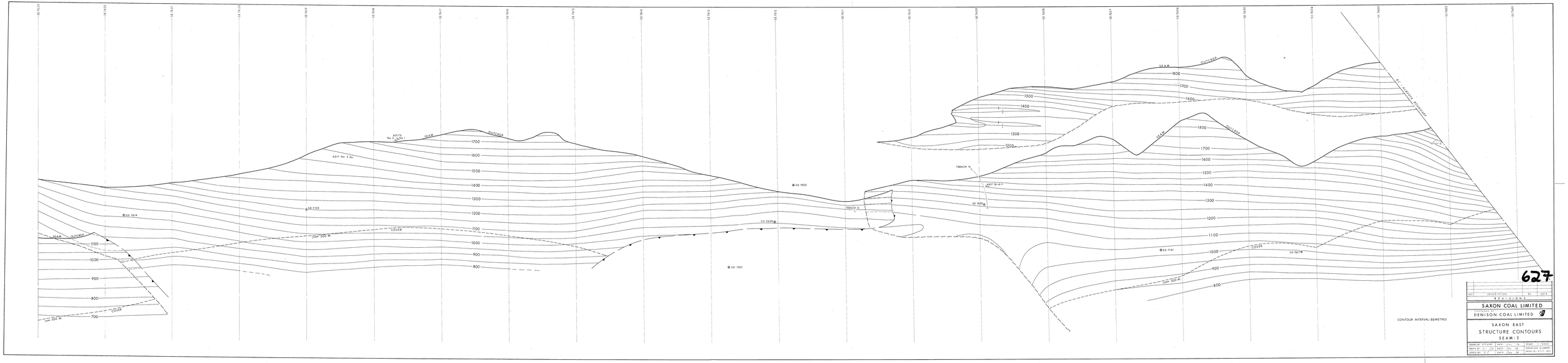
DENISON COAL LIMITED

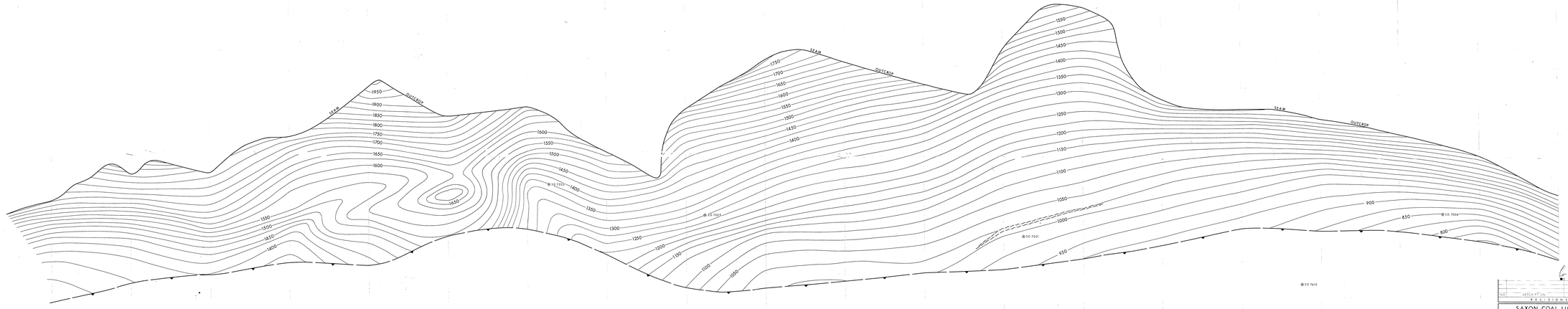
SAXON EAST

STRUCTURE CONTOURS

SEAM: 1

DRAWN BY: P.TYSYK	DATE: Dec. 76	SCALE: 1:1000
TRACED BY:	DATE: Mar. 77	DRAWING NUMBER
APPD. BY: D.F.	DATE: Dec. 76	76DN-76-1017-R2a


SEAM
OUTCROP
ADITS No. 2 & No. 1
ADIT No. 3
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700
SD 7019
SD 7103
COVER
500 M.
SD 7002
SD 7009
SD 7001
TRENCH O
TRENCH N
ADIT 79-417
SD 7007
SD 7101
SD 7017
BY WEATHER BOUNDARY
CONTOUR INTERVAL: 50 METRES
627
NO. DESCRIPTION BY DATE
REVISIONS
SAXON COAL LIMITED
DENISON COAL LIMITED
SAXON EAST
STRUCTURE CONTOURS
SEAM: 2
DRAWN BY: P.T.V.W. DATE: Aug. 79
SCALE: 1:5000
MAPS BY: DATE: Mar. 79
DRAWING NUMBER:
APPD BY: DATE: Aug. 79
DWG. No. 1:5000 - 82



CONTOUR INTERVAL: 25 METRES

NO.	DESCRIPTION	BY	DATE
REVISIONS			

SAXON COAL LIMITED

A SUBSIDIARY OF

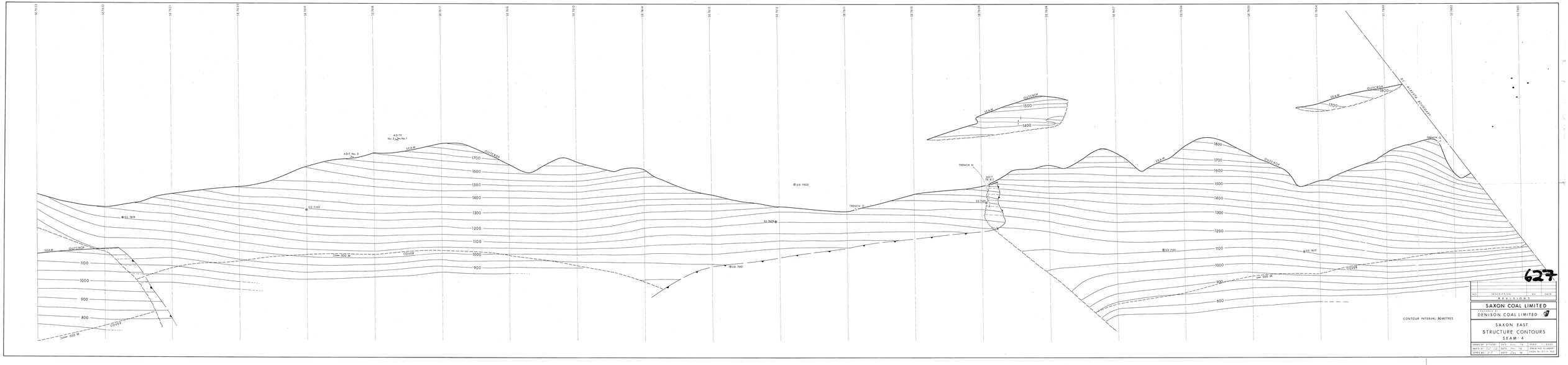
DENISON COAL LIMITED

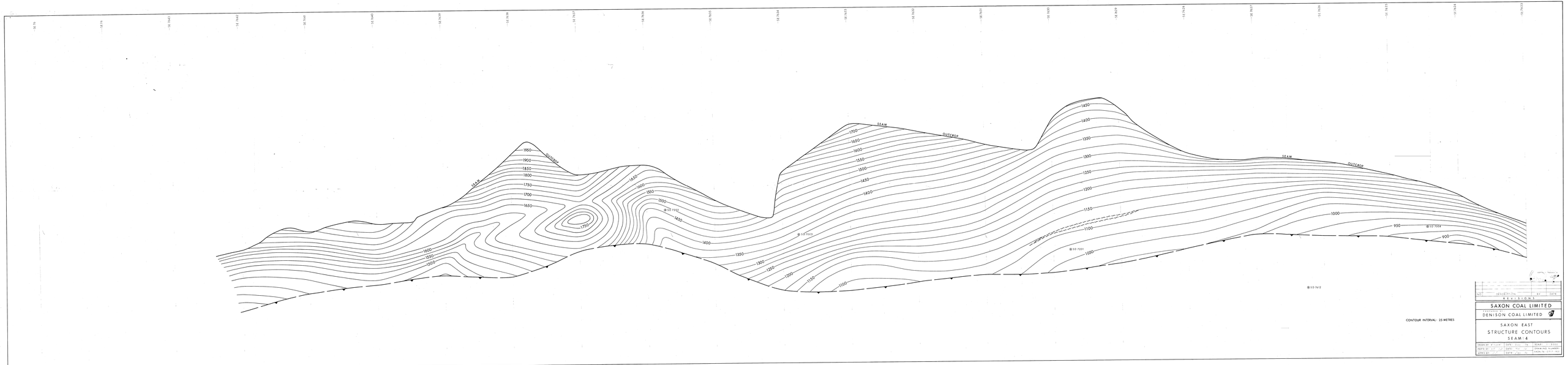
SAXON EAST

STRUCTURE CONTOURS

SEAM : 2

DRAWN BY: [illegible]	DATE: [illegible]	SCALE:	1:2500
REPD BY: [illegible]	DATE: [illegible]	DRAWING NUMBER:	
APPD BY: [illegible]	DATE: [illegible]	SAXON-STRUC-002	


SEAM
OUTCROP
COVER
500 M
ADITS No. 3 & No. 1
ADIT No. 3
TRENCH O
TRENCH N
ADIT No. 2
N.E. ADVANCE BOUNDARY
1700
1600
1500
1400
1300
1200
1100
1000
900
800
CONTOUR INTERVAL: 50 METRES
627
NO. | DESCRIPTION | BY | DATE
REVISIONS
SAXON COAL LIMITED
A SUBSIDIARY OF
DENISON COAL LIMITED
SAXON EAST
STRUCTURE CONTOURS
SEAM: 4
DRAWN BY: STEVE | DATE: Oct 78 | SCALE: 1:2000
PREP'D BY: | DATE: Nov 78 | DRAWING NUMBER:
APPR'D BY: | DATE: Dec 78 | SEAM 4 STRUCT MAP



CONTOUR INTERVAL: 25 METRES

NO.	DESCRIPTION	BY	DATE
	REVISIONS		

SAXON COAL LIMITED

A SUBSIDIARY OF

DENISON COAL LIMITED

SAXON EAST

STRUCTURE CONTOURS

SEAM 4

DRAWN BY	DATE	SCALE	
INSPD BY	DATE	DRAWING NUMBER	
APPD BY	DATE	SAXON-10-7-1-SE	

SA-SAXON 76(3)A 7601

627

H.R.DENSITY DETAIL LOG

COMPANY DENISON COAL LTD.
BOREHOLE SD 7601
STATE B.C. COUNTRY CANADA

Permanent Datum GROUND LEVEL Elev. ___ Ft.
Log measured from " Ft. above P.D.
Drilling measured from " Ft. above P.D.

Run No	1		
Depth Scale	20:1		
Date	21.9.76.		
First Reading	217 196 157 107		
Last Reading	210 187 153 96		
Interval Measured	7 9 4 11		
Casing BPB			
Casing Driller			
Depth Reached	246.1		
Bottom Driller	246.6		
Mud Nature	WATER		
S.G. / Viscosity			
Bit Size 1	H to T.D.	to	to
2	to	to	to
3	to	to	to
Casing Size 1	to	to	to
2	to	to	to
Rm @ Meas Temp	@	@	@
Rmf @ Meas Temp	@	@	@
Rmc @ Meas Temp	@	@	@
BHT			
Operating Time	6hrs.		
Truck No.	V22/26		
Recorded By	MIKE SEAL		
Witness			

fold here

REMARKS

Changes in Mud Type or Additional Samples

Date / Sample No.			
Depth — Driller			
Type Fluid in Hole			
Dens. / Visc.			
ph. / Fluid Loss		ml	
Source of Sample			
Rm @ Meas Temp.	@ °F		@ °F
Rmf @ Meas Temp.	@ °F		@ °F
Rmc @ Meas Temp.	@ °F		@ °F
Source: Rmf / Rmc			
Rm @ BHT	@ °F		@ °F
Rmf @ BHT	@ °F		@ °F
Rmc @ BHT	@ °F		@ °F

Scale Changes

Type Log	Depth	Scale Up Hole	Scale Down
H.R.DENSITY	153.	6000-12000	4200-8600

Equipment Data

Run No.	Tool Type	Tool Position	Other

Logging Data

Log	Depths From	Depths To	Speed M/MIN	T.C. SEC	Norm. RATIO		Source Number
hrd	217	96	2½	1	0.599	83	C-2

HOLE LINED WITH FIBRETEX
WATER LEVEL RISING AS HOLE LOGGED

DEPTHS 20:1 H.R.DENSITY DETAIL

DEPTHS 20:1 H.R.DENSITY DETAIL

COMPANY DENISON COAL LTD.
BOREHOLE SD 7601
FIELD SAXON
COUNTY ___ STATE B.C.

MY 41485 R

Re-scan 3/5/98

7601

Company or Shot Type or Additional Specifics							
Zone 1: Geophs No.							
Name - Identity							
Open Point of Origin							
Gains							
Mic. 2 Cart Line							
Filter Settings							
Hzt. Hi-pass Setg.	50	%	20	%			
Hzt. Lo-pass Setg.	45	%	20	%			
Vert. Hi-pass Setg.	1		1				
Vert. Lo-pass Setg.	1		1				
Hzt. GEOF1	20	%	20	%			
Hzt. GEOF2	20	%	20	%			
Vert. GEOF	20	%	20	%			
0	0	0	0	0	0	0	0

COMPANY: DENSON COAL LTD.
BOREHOLE: SD 7604
FIELD: SASON
COUNTY: CANADA
STATE: B.C.

Permanent Datum: G.L.
Log Measured from: G.L.
Drilling Measured from: G.L.

Elev.: ___ ft.
Ft. Above Perm. Datum
K.B.: ___
D.F.: ___
G.L.: ___

Date: 1-10-84
Run No.: ONE
Depth-Driller: 232
Depth-Logger: 232
Bottom Log Interval: 232
Top Log Interval: SURFACE
Casing-Driller: 7 5/8" @ 0
Casing-Logger: NONE
Bit Size: 6 1/2"
Type Fluid in Hole: AIR
Dens.: -
Visc.: -
pH: -
Fluid Level: -
Max. Rec. Temperature: 25°C
Equipment No.: 1004
Location: SASON
Recorded By: J. WILSON
Witnessed By: -

Run No.	Tool Type	Tool Position	Other

Run No.	Tool Type	Tool Position	Other

REMARKS:

Changes in Mud Type or Additional Samples

Date	Sample No.		
Depth - Driller			
Depth - Logger			
Type Fluid in Hole			
Dens.	Visc.		
pH	Fluid Loss	ml	
Source of Sample			
Rm @ Meas. Temp.	@ °F	@ °F	
Rmf @ Meas. Temp.	@ °F	@ °F	
Rmc @ Meas. Temp.	@ °F	@ °F	
Source: Rmf Rmc	Rmg		
Rm @ BHT	@ °F	@ °F	
Rmf @ BHT	@ °F	@ °F	
Rmc @ BHT	@ °F	@ °F	

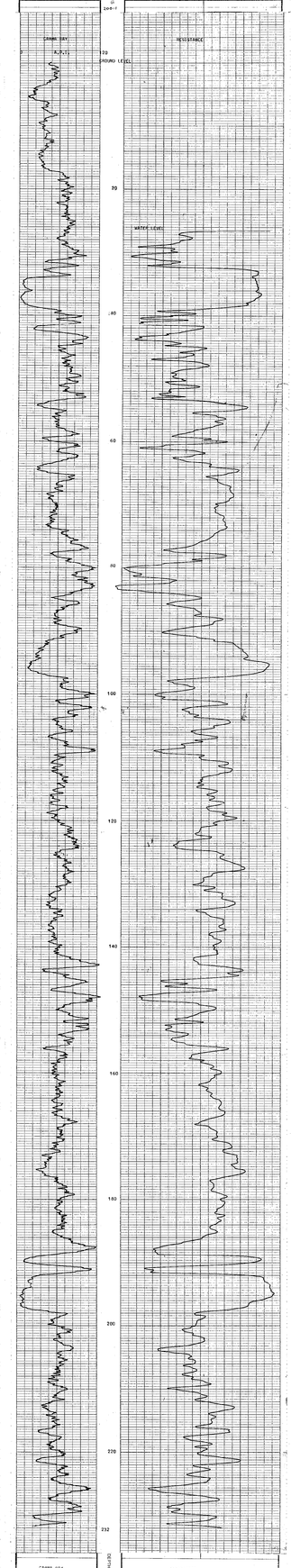
Scale Changes

Event Log	Depth	Scale Up Hole	Scale Down

Equipment Data

Logging Data

Log	Depth Driller	Depth Logger	Bottom Log Interval	Top Log Interval	Run No.	Date	Unit Number
	FEET	FEET	FEET	FEET		DATE	
GR-N	232	232	0	SURFACE	1	02	
GAMMA	232	0	9	1		02	



COMPANY: DENSON COAL LTD.
BOREHOLE: SD 7604
FIELD: SASON
COUNTY: ____ STATE: B.C.

PR-SAXON 76(3)A

H.R.DENSITY
DETAIL LOG

COMPANY DENISON COAL LTD.
BOREHOLE SD 7604
STATE B.C. COUNTRY CANADA

Permanent Datum GROUND LEVEL Elev. ___ Ft.
Log measured from " Ft. above P.D.
Drilling measured from " Ft. above P.D.

Run No.	1
Depth Scale	20:1
Date	18.9.76.
First Reading	233 200 147 45
Last Reading	229 188 142 28
Interval Measured	4 12 5 17
Casing BPB	6.5m
Casing Driller	
Depth Reached	234.0
Bottom Driller	
Mud Nature	WATER
S.G. / Viscosity	
Bit Size 1	H to T.D.
2	to
3	to
Casing Size 1	4" to 6.5m
2	to
Rm @ Meas Temp.	@
Rmf @ Meas Temp.	@
Rmc @ Meas Temp.	@
BHT	
Operating Time	5hrs.
Truck No.	V22/26
Recorded By	MIKE SEAL
Witness	

627

fold here

REMARKS

Log	Depths From	Depths To	Speed M/MIN	T.C. SEC	Norm RATIO	Scale No.	Source Number
HRD	233	28	2½	1	0.599	83	C-2

H.R.DENSITY DETAIL

DEPTH 20:1

DEPTHS 20:1

H.R.DENSITY

COMPANY DENISON COAL LTD.
BOREHOLE SD 7604
FIELD SAXON
COUNTY ___ STATE B.C.

MY 41485 R

627

Dresser Atlas

DRESSER ATLAS
DIVISION OF DRESSER INDUSTRIES, INC.

Dresser Atlas
Dresser Industries, Inc.
Dresser Atlas
Dresser Industries, Inc.

Well Name: Sunset Oil Co. Inc.
Field: Wildcat
County: Sublette
State: Wyoming
Location: 1980' FSL & 1980' FEL
Sec. 14 Twp. 35N Rng. 115W

Elevation: 6,000' GL
Date: 1-2-1979
Run No. 1
Depth Driller: 10,000'
Depth Logger: 10,000'
Bottom Log Int.: 9,996'
Top Log Int.: 9,000'
Casing Driller: 9 5/8" @ 2,000'
Casing Logger: 2,000'
Bit Size: 8 3/4"
Type Fluid: Gel Chem
Density: 9.4
Viscosity: 40
Fluid Loss: 8.0
Source of Sample: Flowline
Rm @ Meas. Temp.: .09 @ 80°F
Rmf @ Meas. Temp.: .07 @ 80°F
Rmc @ Meas. Temp.: .12 @ 80°F
Rm @ BHT: .05 @ 180°F
Time Since Circ.: 12 hrs.
Max. Rec. Temp.: 180°F
Equip. Location: Rock Springs, Wyoming
Recorded By: Jones
Witnessed By: Smith

Run No.	Bit Size	Depth In	Depth Out	Footage	Hours
1	8 3/4"	2,000'	10,000'	8,000'	90

Type Log	Depth Driller	Depth Logger	Bottom Log Int.	Top Log Int.	Casing Size	Type Fluid in Hole	Density	Viscosity
DIL-SFL	10,000'	10,000'	9,996'	9,000'	9 5/8" @ 2,000'	Gel Chem	9.4	40

Run No.	Time	Size	Type	Left in Hole
DIL-SFL	1	8 3/4"	Rock Bit	No

DIL-SFL

ELECTROMAGNETIC DEPTH SCALE

DIL-SFL

ELECTROMAGNETIC DEPTH SCALE

COMPANY: DON'S OIL CO., LTD.
BOROUGH: N. SIDE
FIELD: ____ AREA
COUNTY: ____ STATE: ____

R. Green 10-5-84

627

COMPANY	DEVON GAS, LTD.
WELL	SCHOLLE 10 TOBA
FIELD	SPUTH
COUNTY	STATE

Elevation	
Location	
Other Services	
Permanent Datum	G.L.
Log Measured From	K.B.
Drilling Measured From	K.B.
Date	10-5-84
Run No.	ONE
Depth-Driller	1200
Depth-Logger	1200
Bottom Log Interval	1200
Top Log Interval	SURF
Casing-Driller	13 3/8 @ 30
Casing-Logger	
Bit Size	12 1/4
Type Fluid in Hole	AIR
Dens. / Visc.	
pH / Fluid Loss	
Source of Sample	
Rm @ Meas. Temp.	@ °F
Rmf @ Meas. Temp.	@ °F
Rmc @ Meas. Temp.	@ °F
Source: Rmf / Rmc	
Rm @ BHT	@ °F
Time Since Circ.	
Max. Rec. Temp.	°F
Equip. Location	
Recorded By	
Witnessed By	

Run No.	Bore-Hole Record			Casing Record		
	Bit No.	From	To	Size	Wgt.	From	To
ONE	1	0	1200	13 3/8		0	30

Run No.	Equipment Type	Serial No.	Position
ONE	GAMMA RAY		

Run No.	Time	Max. Recorded Temp.	Equipment Location
ONE			

Run No.	Time	Circulation Stopped	Logger On Bottom	Max. Temp.	Equipment Left Site	Witnessed By
ONE						

REMARKS

GAMMA RAY DETAIL

GAMMA RAY DETAIL

GAMMA RAY DETAIL

COMPANY	DEVON GAS, LTD.
WELL	SCHOLLE 10 TOBA
FIELD	SPUTH
COUNTY	STATE

PA. SAGEM. 7604

7604

627

CONSOLIDATED OIL LTD.

BOREHOLE 27-7

STATE Alta. COUNTRY Canada

Permanent Datum: Ground Level

Log Measured from: Kelly Bushing

Drilling Measured from: Kelly Bushing

Elev. Permanent Datum 0 ft. Above Perm. Datum

Elev. Log Measured from 0 ft. Above Perm. Datum

Elev. Drilling Measured from 0 ft. Above Perm. Datum

Date	7-7-76		
Run No.	ONE		
Depth-Driller	232		
Depth-Logger	232		
Bottom Log Interval	232		
Top Log Interval	SURF.		
Casing-Driller	8 5/8 @ 30	@	@
Casing-Logger	8 5/8 @ 30		
Bit Size	7 7/8		
Type Fluid in Hole	GEL CHEM		
Dens.	9.4		
Visc.	40		
Pm	8.5		
Pmf	8.0		
Mf	8.0		
Wl	8.4		
Rm @ Meas. Temp.	.75 @ 75	@	@
Rmf @ Meas. Temp.	.75 @ 75	@	@
Rmc @ Meas. Temp.	.75 @ 75	@	@
Source of Rmf & Rmc	MEASURED		
Rm @ BHT	.75 @ 75	@	@
Time Since Circ.	4		
Max. Rec. Temp.	75		
Equip. & Location	5611		
Recorded By	R. SCOTT		
Witnessed By	R. SCOTT		

Field Name

REMARKS

Changes in Mud Type or Additional Samples

Time	Sample No.		

Depth - Driller

Type Fluid in Hole

Date | Time | AM/PM

Source of Sample

Pm	@ Meas. Temp.	@	°F	@ °F
Rmf	@ Meas. Temp.	@	°F	@ °F
Rmc	@ Meas. Temp.	@	°F	@ °F
Source: Rmf & Rmc				
Rm	@ BHT	@	°F	@ °F
Rmf	@ BHT	@	°F	@ °F
Rmc	@ BHT	@	°F	@ °F

Scale Changes

Type Log	Depth	Scale Up Hole	Scale Down

Equipment Data

Pad No.	Tool Type	Tool Position	Other

Logged Intervals

Log	Depth From	Depth To	Speed F/M	Time Log Begins	Time Log Ends	Source Factor
LDL	SURF.	232	30	1415	1515	
LSD	232	0	30	1525	1555	1.50

CALIPER

L.L.DENSITY

CALIPER

6" 6"

LONG SPACING DENSITY

1000 1500 1700

GROUND LEVEL

DRILLING LINE

WATER LEVEL

20

40

60

80

100

120

140

160

180

200

220

232

COMPANY CONSOLIDATED OIL LTD.

BOREHOLE 27-7604

FIELD ALTA

COUNTY STATE Alta.

RE: SAXON 76-15-12

GAMMA RAY-RESISTANCE
1:200

COMPANY DENISON COAL LTD.
BOREHOLE SD 7019
STATE B.C. COUNTRY CANADA

Permanent Datum GROUND LEVEL Elev. Ft.
Log measured from Ft. above P.D.
Drilling measured from GROUND LEVEL Ft. above P.D.

Date 13-12-76
Run Number 1
Depth-Driller 202
Depth-Logger 202
Bit Size 5 7/8"
Casing-Size 4" @ 0 to 4.56
Bit @ Meas. Depth 202
Top Log Intervl 0
Bottom Log Intervl 202
Type Fluid in Hole WATER
SALINITY PPM
Density lb/gal
Viscosity sec
PH
Fluid Loss ml/30min
Source of Sample
Rm @ Meas. Temp. @ °F
Rmf @ Meas. Temp. @ °F
Rmc @ Meas. Temp. @ °F
Source: Rmf Rmc
Rm @ BHT @ °F
Rmf @ BHT @ °F
Rmc @ BHT @ °F

Equipment No. 3332/726
Truck No. 9SKE 5E9
Recorded By
Witnessed By

Hold here

REMARKS

Changes in Mud Type or Additional Samples
Date | Sample No.
Depth - Driller
Type Fluid in Hole
Zeros | Vrec
pH | Fluid Loss ml

Scale Changes

Type Log	Depth	Scale Up Hole	Scale Down

Equipment Dip

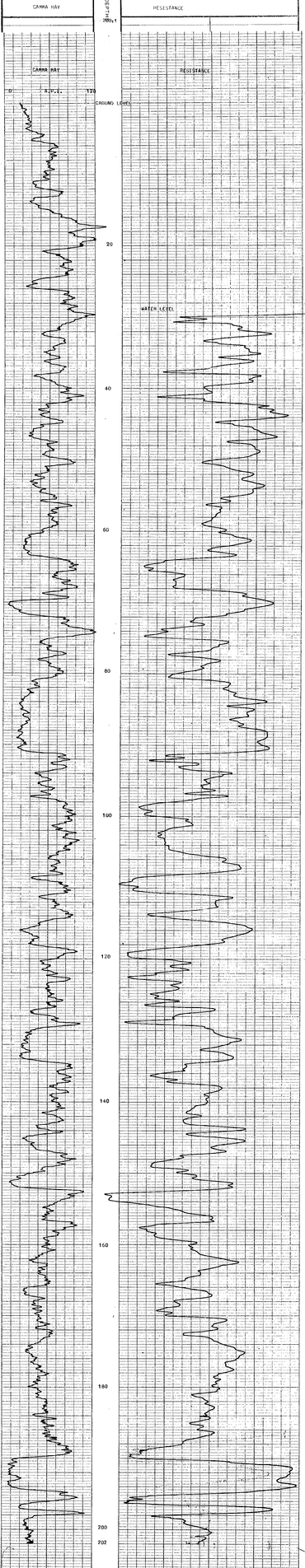
Run No.	Tool Type	Tool Position	Other

Logging Data

Log	Depths From	to	Speed M/MIN	T.C. SEC	Num. Cable	Source Number
RES	202	0	15			
GAMMA	202	0	9	1	82	

HOLE DRILLED AT 75 DEGREES TO HORIZONTAL

GAMMA RAY | DEPTH | RESISTANCE



GAMMA RAY | DEPTH | RESISTANCE

COMPANY DENISON COAL LTD.
BOREHOLE SD 7019
FIELD SAXON
COUNTY STATE B.C.

627

B. Saxon 76(3)a

CALIPER + L.S.DENSITY
LOG

COMPANY DENISON COAL LTD.
BOREHOLE SD 7619
STATE B.C. COUNTRY CANADA

Permanent Datum GROUND LEVEL Elev. F.I.
Log measured from " Ft. Above P.D.
Drill Measured from " Ft. Above P.D.

Date 1-6-76
Run No. One Only
Depth-Driller 202
Depth-Logger 202
Bottom Logged Interval 202
Top Log Interval 0
Casing-Driller 9 5/8"
Casing-Logger 9 5/8"
Bit Size 8 3/4"
Type Fluid in Hole WATER
Dens. 1
Visc. 34 sec
pH 7.5
Fluid Loss 6.4cc
Source of Sample
Rm @ Meas Temp. @ °F
Rmf @ Meas Temp. @ °F
Rmc @ Meas Temp. @ °F
Source: Rmf Rmc
Rm @ BHT @ °F
Rmf @ BHT @ °F
Rmc @ BHT @ °F
Max. Rec. Temp. 40°F
Equip. Location 100 Mile House
Recorded By WATTS
Witnessed By

Bit No.	1	2	
Type	Tricone		
Size	8 3/4"		
Out	202		
In	0		
Footage	202		
Hours	14		
Condition	1-1-1		

Rig Up Time 4 hrs
Rig Down Time 2 hrs
Log Time 2 hrs
Witnessed By Shell
Truck No. 17272
Equip. No. B14 SCH.

Tools Used: Gamma Ray, Caliper, Long Spacing Density, Long Spacing Density (Water Corr.)

Tools Used: Gamma Ray, Caliper, Long Spacing Density, Long Spacing Density (Water Corr.)

REMARKS

Changes in Mud Type or Additional Samples

Date	Sample No.			
Depth - Driller				
Type Fluid in Hole				
Dens.	Visc.			
pH	Fluid Loss		ml	

Source of Sample

Rm @ Meas Temp.	@ °F	@ °F	
Rmf @ Meas Temp.	@ °F	@ °F	
Rmc @ Meas Temp.	@ °F	@ °F	
Source: Rmf Rmc			
Rm @ BHT	@ °F	@ °F	
Rmf @ BHT	@ °F	@ °F	
Rmc @ BHT	@ °F	@ °F	

Scale Changes

Type Log	Depth	Scale Up Hole	Scale Down

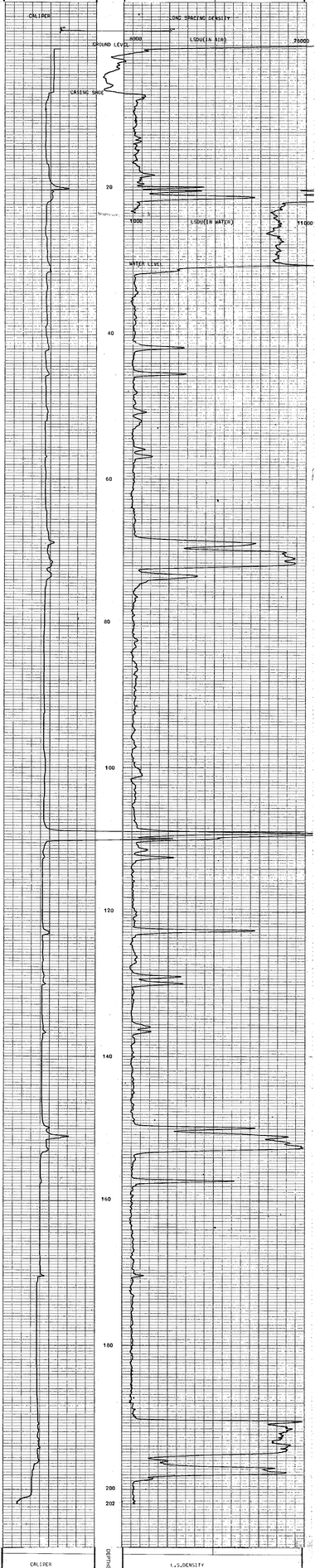
Equipment Data

Run No.	Tool Type	Tool Position	Other

Logging Data

Log	Depths Type	Depths To	Speed M/MIN	Speed SEC	Norm. Rate	Sensitivity	Source Number
CALIPER	202	0	9	1/4		1M	
LSD	202	0	9	1/4	0.786	83	G 50

HOLE DRILLED AT 73 DEGREES TO HORIZONTAL



COMPANY DENISON COAL LTD.
BOREHOLE SD 7619
FIELD SAXON
COUNTY STATE B.C.

Fr Jason Hole 3.25

COMPANY: DENISON COAL LTD.
BOREHOLE: SD 7619
STATE: B.C.

H_2O-DENSITY DETAIL

Permanent Datum	Ground Level	Elev.	Ft
Drilling Measured from		Ft Above	Ft Below
Date	22-3-1		
Run No.	1		
Depth-Driller	200		
Depth-Logger	200		
Bottom Log Interval	200		
Top Log Interval	0		
Casing-Driller	0		
Casing-Logger	0		
Bit Size	7 7/8		
Type Fluid in Hole	WATER		
Dens.		Visc.	
pH		Fluid Loss	ml
Source of Sample			
Rm @ Meas Temp	@	°F	@ °F
Rmf @ Meas Temp	@	°F	@ °F
Rmc @ Meas Temp	@	°F	@ °F
Source Rmf / Rmc			
Rm @ BHT	@	°F	@ °F
Rmf @ BHT	@	°F	@ °F
Rmc @ BHT	@	°F	@ °F
Max Rec. Temp.	72	°C	
Equip. Location	PRINCE GEORGE		
Recorded By			
Witnessed By			

COUNTRY: CANADA

REMARKS:

Changes in Mud Type or Additional Samples

Time	Sample No.		
Depth - Driller			
Type Fluid in Hole			
Dens.		Visc.	
pH		Fluid Loss	ml
Source of Sample			
Rm @ Meas Temp	@	°F	@ °F
Rmf @ Meas Temp	@	°F	@ °F
Rmc @ Meas Temp	@	°F	@ °F
Source Rmf / Rmc			
Rm @ BHT	@	°F	@ °F
Rmf @ BHT	@	°F	@ °F
Rmc @ BHT	@	°F	@ °F

Scale Changes

Type Log	Depth	Scale Up Feet	Scale Down

Equipment Data

Run No.	Tool Type	Tool Position	Other

Logging Data

Log	Depth Driller	Depth Logger	Bottom Log Interval	Top Log Interval	Scale Up Feet	Scale Down Feet
GRD	200	73	73	0	0.375	63 127

HOLE DRILLED AT 73 DEGREES TO HORIZONTAL

H_2O-DENSITY DETAIL

HIGH RESOLUTION DENSITY DETAIL

4000 H_2O-DENSITY 3000

67 68 70 72 74 75 149 150 152 154 189 190 192 194 196 198 200

H_2O-DENSITY

COMPANY DENISON COAL LTD.

BOREHOLE SD 7619

FIELD JASON

COUNTY STATE B.C.

Re- Saxon 76 (3/4). 7619

BPB

GAMMA RAY DETAIL
LOG

COMPANY DENISON COAL LTD.
BOREHOLE SD 7619
STATE B.C. COUNTRY CANADA

Permanent Datum GROUND LEVEL Elev ___ Ft.
Log measured from " Ft. above P.D.
Drilling measured from " Ft. above P.D.

Run No.	1		
Depth Scale	20:1		
Date	18.10.76.		
First Reading	200 154 75		
Last Reading	189 149 67		
Interval Measured	11 5 8		
Casing BPB	6.6m		
Casing Driller			
Depth Reached	204.7m		
Bottom Driller			
Mud Nature	WATER		
S.G. / Viscosity			
Bit Size 1	"H" to T.D.	to	to
2	to	to	to
3	to	to	to
Casing Size 1	4" to 6.6m	to	to
2	to	to	to
Rm @ Meas Temp.	@	@	@
Rmf @ Meas Temp.	@	@	@
Rmc @ Meas Temp.	@	@	@
BHT			
Operating Time	4hrs.		
Truck No.	V22/26		
Recorded By	MIKE SEAL		
Witness			

627

fold here

REMARKS

Changes in Mud Type or Additional Samples				
Date / Sample No.				
Depth — Driller				
Type Fluid in Hole				
Dens. / Visc.				
ph. / Fluid Loss		ml		
Source of Sample				
Rm @ Meas Temp.	@	°F	@	°F
Rmf @ Meas Temp.	@	°F	@	°F
Rmc @ Meas Temp.	@	°F	@	°F
Source: Rmf / Rmc				
Rm @ BHT	@	°F	@	°F
Rmf @ BHT	@	°F	@	°F
Rmc @ BHT	@	°F	@	°F

Scale Changes

Type Log	Depth	Scale Up Hole	Scale Down

Equipment Data

Run No.	Tool Type	Tool Position	Other

Logging Data

Log	Depths From	Depths To	Speed M/min	T.C. sec	Norm. ratio	Sonde No.	Source Number
GAMMA	200	67	3	1		82	

HOLE DRILLED AT 73 DEGREES TO HORIZONTAL

DEPTHS 20:1 | GAMMA RAY DETAIL

DEPTHS 20:1 | GAMMA RAY DETAIL

COMPANY DENISON COAL LTD.
BOREHOLE SD 7619
FIELD SAXON
COUNTY ___ STATE B.C.

MY 41485 R

2" Saxon 16 Side

DENSILOG

COMPANY DENSON CUAL LTD.
BOREHOLE SD 3163
FIELD SAXON
COUNTY STATE B.C.

B.P.DENSITY DETAIL
SDC

Permanent Datum: GROUND LEVEL
Log Measured from: KB
Drilling Measured from: KB

Elevation		
K.B.	0.0	
D.F.		
G.L.		

Date	9-5-83	
Run No.	ONE	
Depth-Driller	200	
Depth-Logger	199.4	
Bottom Log Interval	199.4	
Top Log Interval	0.0	
Casing-Driller	0	@
Casing-Logger	0	
Bit Size	5.5	
Type Fluid in Hole	WATER	
Density		
Viscosity		
Fluid Loss		
Source of Sample		
Rm @ Meas. Temp.	@	°F
Rmf @ Meas. Temp.	@	°F
Rmc @ Meas. Temp.	@	°F
Source: Rmf / Rmc		
Rm @ BHT	@	°F
Rmf @ BHT	@	°F
Rmc @ BHT	@	°F

Max. Rec. Temperature	14.5	°C
Equipment No.	1-3-4-5	
Location	1-3-4-5	
Recorded by	D.W.	
Witnessed by	D.W.	

Field Name

REMARKS:

Changes or Most Type of Additional Samples
Side Wall Sample No.
Core Sample No.
Type Fluid in Hole

Hole Deviation
Max. Deviation
Max. Dog Leg
Max. Dog Leg Depth

Time Since Circulation
Time Since Last Log
Max. Recorded Temp.
Equipment Location

Hole Changes

Type Log	Depth	Scale Up Hrs	Scale Down

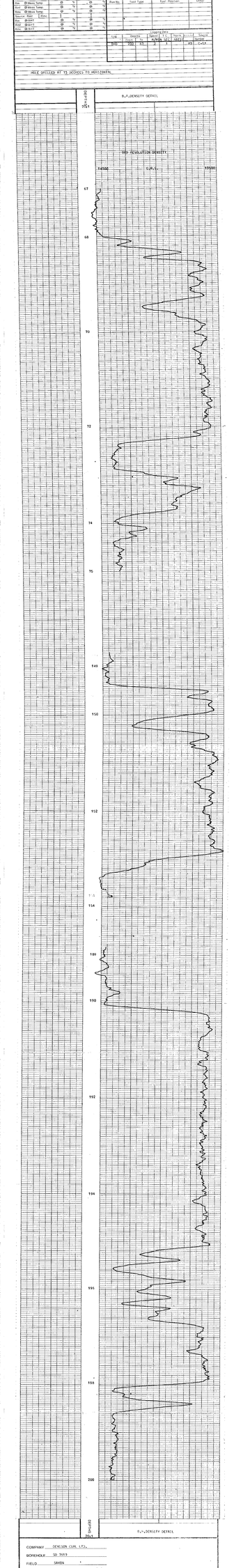
Equipment Data

Run No.	Tool Type	Tool Position	Other

Logging Data

Log	Depth Driller	Depth Logger	Scale Up Hrs	Scale Down Hrs	Machine Time	Unit Number
DTD	200	83	2	1	.83	C-14

HOLE DRILLED AT 73 DEGREES TO HORIZONTAL



COMPANY DENSON CUAL LTD.
BOREHOLE SD 3163
FIELD SAXON
COUNTY STATE B.C.

12 - SAXON 76 S 1A

COMPANY DENISON COAL LTD.

BOREHOLE SD 7620

STATE B.C. COUNTRY CANADA

CALIPER - B.H.DENSITY DETAIL LOG

Permanent Datum GROUND LEVEL Elev. Ft.

Logging measured from P.D.

Drilling measured from P.D.

Ft. above

Ft. above

hold here

Date	24-10-76		
Run No.	One/Single		
First Reading	100.35		
Last Reading	19.2		
Hole Diameter	7.78		
Casing Diameter	7.78		
Depth Driller	1553.5m		
Depth Logged	1554.7m		
Bottom Drillers Casing Shoe	1554.7m		
Bit Size 1	7.78	Type	Diamond
Bit Size 2			
Bit Size 3			
Casing Size 1	4"	Wt.	10.7 lb.
Casing Size 2			
Casing Size 3			
Fluid @ Meas Temp	N		
Rmf @ Meas Temp	N		
Rmc @ Meas Temp	N		
Source of Rmf and Rmc	N		
Rm @ Meas Temp	N		
Bht	N		
Time Since Circ.	N		
Max. Rec. Temp.	N		
Equipment No	3/2725		
Truck No	1/2725		
Recorded By	M.H.-S.E.L.		
Witnessed By			

REMARKS

Changes in Mud Type or Additional Samples

Date	Sample No.		
Depth - Driller			
Type Fluid in Hole			
Density	Visc.		
pH	Fluid Loss	ml	

Source of Sample

Rm	@ Meas Temp.	@ °F	@ °F	
Rmf	@ Meas Temp.	@ °F	@ °F	
Rmc	@ Meas Temp.	@ °F	@ °F	
Source: Rmf	Rmc			
Rm	@ BHT	@ °F	@ °F	
Rmf	@ BHT	@ °F	@ °F	
Rmc	@ BHT	@ °F	@ °F	

Scale Changes

Type Log	Depth	Scale Up Hole	Scale Down

Equipment Data

Run No	Tool Type	Tool Position	Other

Logging Data

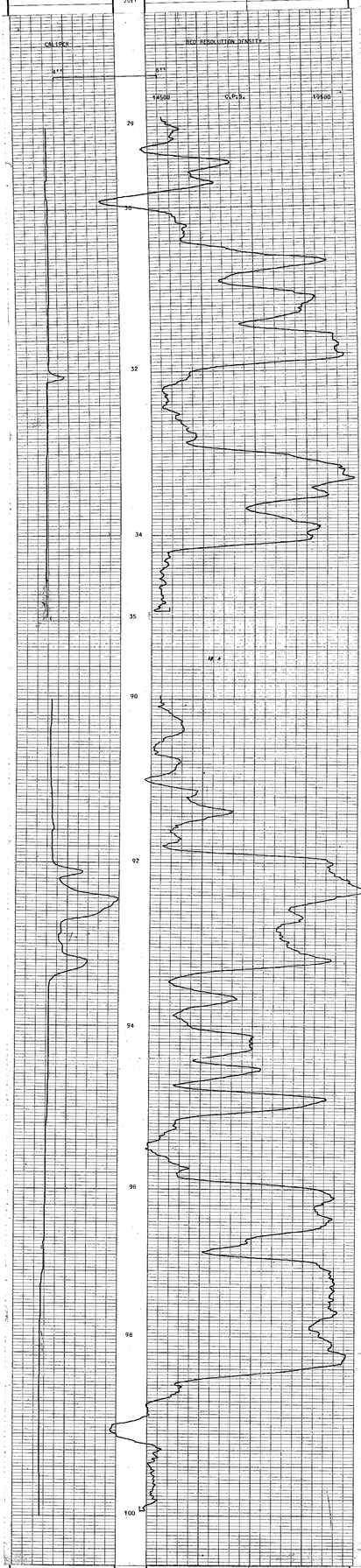
Log	Depths Logged		Speed F/MIN	T.C. SEC	Norm RATIO	Gain	Source Number
CAL	100	29	7	1		1.3	
BRD	100	29	2	1		85	C-1

HOLE DRILLED AT 60 DEGREES TO HORIZONTAL

CALIPER

DEPTHS 20:1

B.H.DENSITY DETAIL



CALIPER

DEPTHS 20:1

B.H.DENSITY DETAIL

COMPANY DENISON COAL LTD.

BOREHOLE SD 7620

FIELD SAXON

COUNTY _____ STATE B.C.

627

02 SAXON 76 (3) 14.

CALIPER + L.S.DENSITY
LOG

COMPANY DENISON COAL LTD.
BOREHOLE SD 7620
STATE B.C. COUNTRY CANADA

Permanent Datum GROUND LEVEL Elev. Ft.
Log Measured from " Ft. above P.D.
Drilling measured from " Ft. above P.D.

Run No.	1	
Depth-Scale	1	1
Date	21-10-76	76/01
Elev. Permanent Datum	G.L.	
Elev. Log Measured	1.52	
Elev. Drilling Measured	3.2m	
Depth Reached	155.5m	
Bottom Driller	154.2m	
Bottom Logger	DRIFTER	
B.S. Size	2	
B.S. Depth	152	
Casing Size 1	4"	
Casing Depth 1	3.2m	
Casing Size 2		
Casing Depth 2		
Rm @ Meas. Temp.	% @ °F	% @ °F
Rmf @ Meas. Temp.	% @ °F	% @ °F
Rmc @ Meas. Temp.	% @ °F	% @ °F
Rm @ BHT	% @ °F	% @ °F
Rmf @ BHT	% @ °F	% @ °F
Rmc @ BHT	% @ °F	% @ °F
Max. Rec. Temp.	38m	
Equipment Code	1	
Truck No.	1-27/14	
Recorded by	BASE SERV.	
Witnessed by		

Fold Here

REMARKS

Changes in Mud Type or Additional Samples

Date	Sample No.			
Depth — Driller				
Type Fluid in Hole				
Dens.	Visc.			
Fluid Loss	cc			

Source of Sample

Rm @ Meas. Temp.	@ °F		@ °F	
Rmf @ Meas. Temp.	@ °F		@ °F	
Rmc @ Meas. Temp.	@ °F		@ °F	
Source: Rmf Rmc				
Rm @ BHT	@ °F		@ °F	
Rmf @ BHT	@ °F		@ °F	
Rmc @ BHT	@ °F		@ °F	

Scale Changes

Type Log	Depth	Scale Up Hole	Scale Down
LSD	#.L.	8000-28000	1000-11000

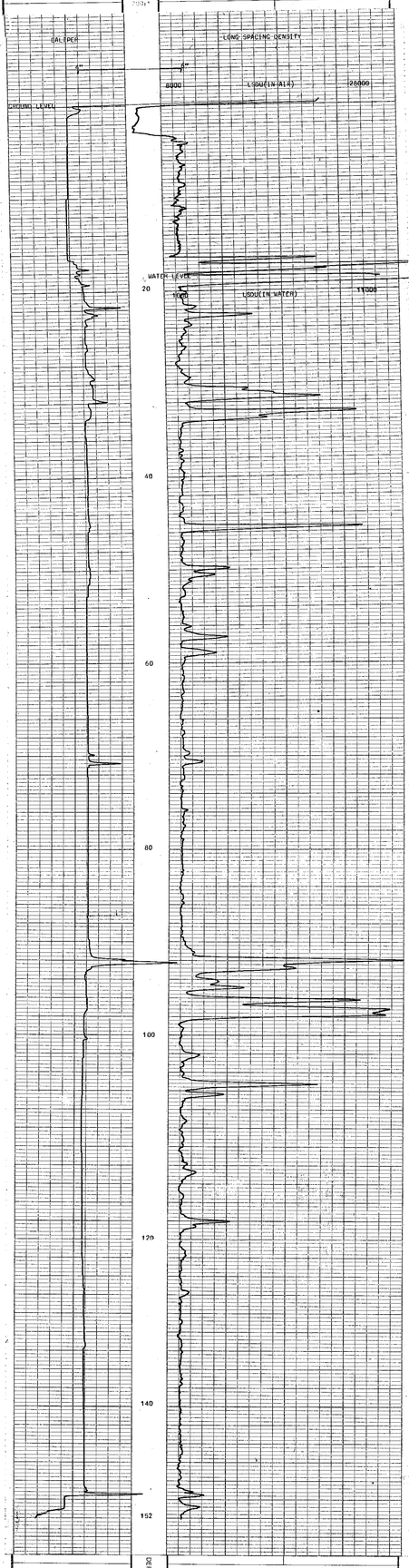
Equipment Data

Run No.	Tool Type	Tool Position	Other

Logging Data

Log	Depths From	Depths To	Speed M/MIN	T.C. SEC	Norm. RATIO	Norm. Number	Source
LSD	152	0	9	1/3	.786	83	L-50
CAL	152	0	9	1/3		131	

HOLE DRILLED AT 60 DEGREES TO HORIZONTAL



COMPANY DENISON COAL LTD.
BOREHOLE SD 7620
FIELD SAXON
COUNTY STATE B.C.

627

PR - SAXON 76 (3)A.

GAMMA RAY , RESISTANCE LOG

COMPANY DENISON COAL LTD.
BOREHOLE SD 7620
STATE B.C. COUNTRY CANADA

Permanent Datum GROUND LEVEL Elev. ____ Ft.
Log measured from " Ft. above P.D.
Drilling measured from " Ft. above P.D.

Run No.	Depth Scale	1	200ft			
Date		21.10.76.				
First Reading		152				
Last Reading		0				
Interval Measured		152				
Casing Bttm		3.2m				
Casing Driller						
Depth Reached		153.6m				
Bottom Driller		154.2				
Mud Nature		WATER				
S.G.	Viscosity					
Bit Size 1		"RR" to T.D.		to		
2		to		to		to
3		to		to		to
Casing Size 1		4" to 3.2m		to		to
2		to		to		to
Rm @ Meas Temp.		@		@		@
Rmf @ Meas Temp.		@		@		@
Rmc @ Meas Temp.		@		@		@
Bht						
Operating Time		38hrs.				
Truck No		W22/24				
Recorded By		MIKE SEAL				
Witness						

627

Field Note

REMARKS:
Changes in Mud Type or Additional Samples:
Date / Sample No. / Depth / Type Fluid and Note

Time / Date / Fluid Loss / Source of Sample / Resistivity / Meas. Temp. / Rm @ Meas Temp. / Rmf @ Meas Temp. / Rmc @ Meas Temp. / Max. Rec. Temp. / Bht / Time Since Circ. / Max. Rec. Temp.

Scale Changes: Depths / Scale Down / Scale Up Hole

Equipment Data: Run No. / Tool Type / Tool Position / Other

Log / Depths From / To / Casing Size / Bit Size / Source of Sample / Type Log / Run No. / Date / Time / Truncks / Equip. No.
GAMMA 152 0 4 19 82
RES. 152 0 4 19

MIKE DUELLO AT 60 DEGREES TO HORIZONTAL

RESISTANCE

GROUND LEVEL

WATER LEVEL

DEPTHS 20 40 60 80 100 120 140 152 200ft

GAMMA RAY

GAMMA RAY A.P.I. 120 0

COMPANY DENISON COAL LTD.
BOREHOLE SD 7620
FIELD SAXON
COUNTY ____ STATE B.C.

MY 450855

Pn- SAXON 76 (3)A.

627

BPB — GAMMA RAY DETAIL LOG

COMPANY DENISON COAL LTD.
BOREHOLE SD 7620
STATE B.C. COUNTRY CANADA

Permanent Datum GROUND LEVEL Elev ____ Ft.
Log measured from " Ft. above P.D.
Drilling measured from " Ft. above P.D.

Run No.	1			
Depth Scale	20:1			
Date	21.10.76.			
First Reading	100 35			
Last Reading	90 29			
Interval Measured	10 6			
Casing BPB	3.2m			
Casing Driller				
Depth Reached	153.6m			
Bottom Driller	154.2m			
Mud Nature	WATER			
S.G. / Viscosity				
Bit Size 1	"H" to T.D.		to	to
2	to		to	to
3	to		to	to
Casing Size 1	4" to 3.2m		to	to
2	to		to	to
Rm @ Meas Temp.	@		@	@
Rmf @ Meas Temp.	@		@	@
Rmc @ Meas Temp.	@		@	@
BHT				
Operating Time	3½hrs.			
Truck No.	V22/26			
Recorded By	MIKE SEAL			
Witness				

fold here

REMARKS

Changes in Mud Type or Additional Samples				
Date	Sample No.			
Depth — Driller				
Type Fluid in Hole				
Dens.	Visc.			
ph.	Fluid Loss	ml		
Source of Sample				
Rm @ Meas Temp.		@ °F	@ °F	
Rmf @ Meas Temp.		@ °F	@ °F	
Rmc @ Meas Temp.		@ °F	@ °F	
Source: Rmf	Rmc			
Rm @ BHT		@ °F	@ °F	
Rmf @ BHT		@ °F	@ °F	
Rmc @ BHT		@ °F	@ °F	

Scale Changes

Type Log	Depth	Scale Up Hole	Scale Down

Equipment Data

Run No.	Tool Type	Tool Position	Other

Logging Data

Log	Depths From	Depths To	Speed M/MIN	T.C SEC	Norm. RATIO	Scale No.	Source Number
GAMMA	100	29	3	1		82	

HOLE DRILLED AT 60 DEGREES TO HORIZONTAL

DEPTHS 20:1 — GAMMA RAY DETAIL

DEPTHS 20:1 — GAMMA RAY DETAIL

COMPANY DENISON COAL LTD.
BOREHOLE SD 7620
FIELD SAXON
COUNTY ____ STATE B.C.

Re: 5-26-76 (5)

H.N.DENSITY DETAIL
LOG

COMPANY DENISON COAL LTD.
BOREHOLE SD 7620
STATE S.C. COUNTRY CANADA

Permanent Datum: GROUND LEVEL Elev. Ft.
Log Measured from: P.D. Ft. above
Drilling Measured from: P.D. Ft. above

Run No.	One	Two	Three
Date	26-5-76	26-5-76	
Depth Driller	100.5	100.5	
Depth Logger	100.4	100.4	
Bottom Logged Interval	10.4	10.4	
Top Logged Interval	3.26	3.26	
Casing Driller			
Casing Logger			
Bit	6" Rock Bit		
Type Fluid in Hole	WATER		
Dens. / Visc.			
pH / Fluid Loss		ml	
Source of Sample			
Rm @ Meas Temp.	@ °F	@ °F	@ °F
Rmf @ Meas Temp.	@ °F	@ °F	@ °F
Rmc @ Meas Temp.	@ °F	@ °F	@ °F
Source: Rmf / Rmc			
Rm @ BHT	@ °F	@ °F	@ °F
Rmf @ BHT	@ °F	@ °F	@ °F
Rmc @ BHT	@ °F	@ °F	@ °F
Max. Rec. Temp.	75°F		
Equipment Location	Kamloops		
Recorded by	J. Kassay		
Witnessed by	J. Kassay		

REMARKS

Changes in Mud Type or Additional Samples

Date	Sample No.		

Depth – Driller
Type Fluid in Hole

Dens. Visc.
pH Fluid Loss ml
Source of Sample
Rm @ Meas Temp. @ °F @ °F @ °F
Rmf @ Meas Temp. @ °F @ °F @ °F
Source: Rmf Rmc
Rm @ BHT @ °F @ °F @ °F
Rmf @ BHT @ °F @ °F @ °F
Rmc @ BHT @ °F @ °F @ °F

Scale Changes

Type Log	Depth	Scale Up Hole	Scale Down

Equipment Data

Run No.	Tool Type	Tool Position	Other

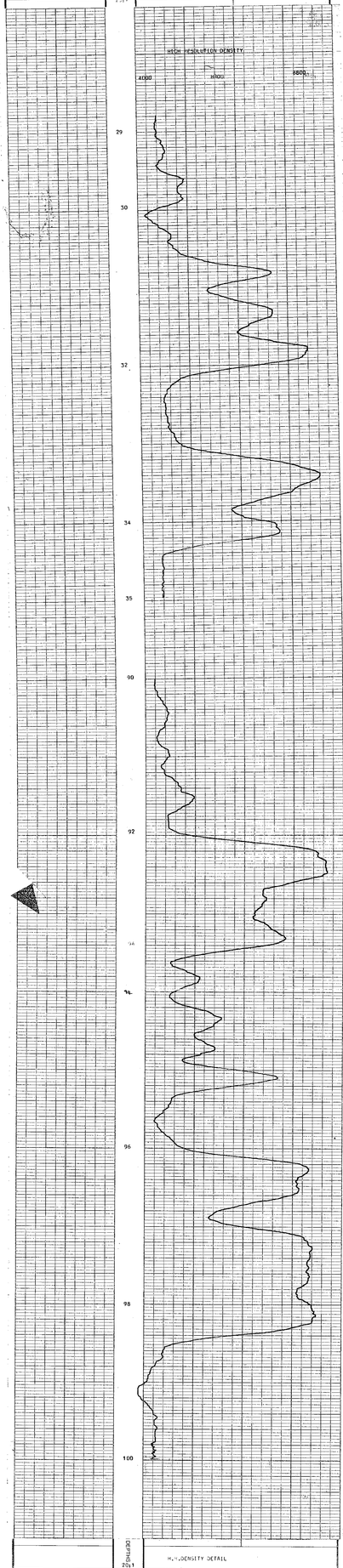
Logger's Data

Log	Depths From	Depths To	Speed M/MIN	T.C. FT/SEC	Norm. Interval DATUM	Source Number		
HND	100	24	24	1	0.50	83	C-2	

HOLE DRILLED AT 60 DEGREES TO HORIZONTAL

DEPTHS 20:1

H.N.DENSITY DETAIL



DEPTHS 20:1

H.N.DENSITY DETAIL

COMPANY DENISON COAL LTD.
BOREHOLE SD 7620
FIELD SAXON
COUNTY STATE B.C.

67

Pl. SAXON 76(3)A

COMPANY DENISON COAL LTD.
BOREHOLE SD 7618
STATE B.C. COUNTRY CANADA

GAMMA RAY + RESISTANCE
LOG

Permanent Datum	GROUND LEVEL	Elev.	Ft.
Log Measured from	"	Ft. above	P.D.
Drilling Measured from	"	Ft. above	P.D.

Run No.	Depth Scale	Date
1	20ft	

Depth Driller	176	
Depth Logger	176	
Bottom Logged Interval	176	
Top Logged Interval	0	
Casing Driller	176	
Casing Logger	176	
Bit Size	7 7/8"	
Type Fluid in Hole	WATER	
Dens.		
Visc.		
pH		
Fluid Loss		ml
Source of Sample		
Rm @ Meas Temp	@ °F	@ °F
Rmf @ Meas Temp	@ °F	@ °F
Rmc @ Meas Temp	@ °F	@ °F
Source: Rmf / Rmc		
Rm @ BHT	@ °F	@ °F
Rmf @ BHT	@ °F	@ °F
Rmc @ BHT	@ °F	@ °F

Top Log Interval	0	0	0
Bottom Log Interval	176	176	176
Casing Size + Wgt	4" 9.5 lb		
Type Well	OIL	OIL	OIL
Producing Method	FLOW	FLOW	FLOW
Bean Size			
Flowing Tbg. Press.			
Flowing Csg. Press.			
Choke Size			
Gas Rate			
Oil Rate			
Water Rate			
Gas Gravity			
Oil Gravity			
Gas Liquids			
Operating Time	40hrs		
Truck No.	0122/26		
Witness	PETRE, BOYL		

fold here

REMARKS

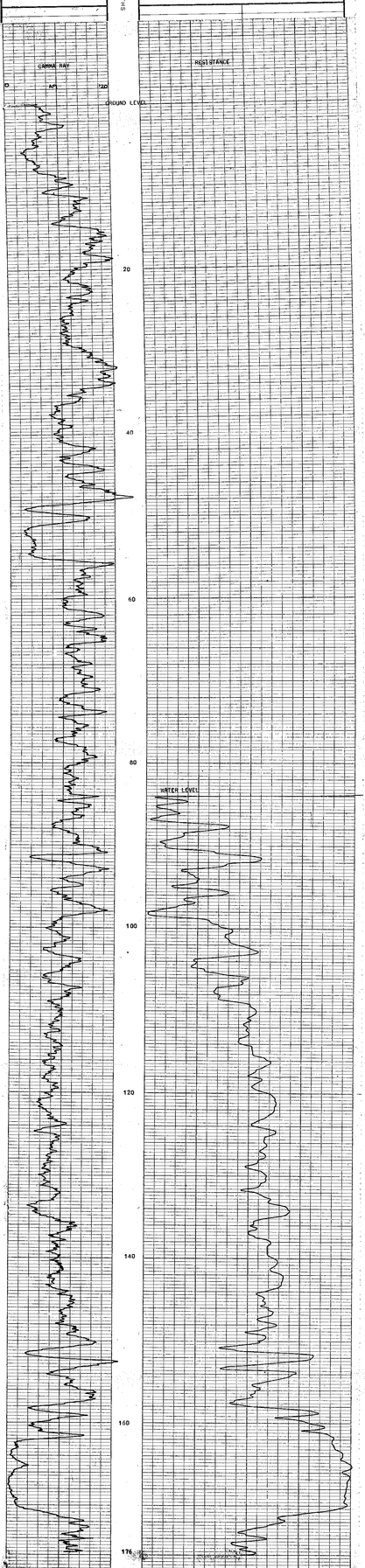
Changes in Mud Type or Additional Samples

Date	Sample No.		
Depth — Driller			
Type Fluid in Hole			

Scale Changes			
Type Log	Depth	Scale Up Hole	Scale Down

Equipment Data			
Run No.	Tool Type	Tool Position	Other

Logging Data						
Log	Depth Logged	Scale	T.C.	Speed	Date	Source Number
RES	176	5+1+	15		8/11/76 SEC	PATIN
GAMMA	176	0	9	1		82



COMPANY DENISON COAL LTD.
BOREHOLE SD 7618
FIELD SAXON
COUNTY _____ STATE B.C.

429

Dr. Strank Gas

627

COMPANY	DENISON CORL. LTD.
WELL	TO 7438
FIELD	GAGIN
STATE	CONTRY CANADA

CALIPER & R.A.DENSITY
GR

Permanent Datum: Elev. ft.
Log Measured from: Above Perm. Datum ft.
Drilling Measured from: K.B. D.F. G.L.

Date: 30-Nov-1976
Run Number: ONE
Depth Driller: 7438
Depth Logger: 7436
Bottom Log Interval: 7434
Top Log Interval: 1200
Casing Driller Size: 9 5/8
Casing Logger Size: 9 5/8
Bit Size: 8 3/4
Type Fluid in Hole: FRESH
Density: 9.4
Viscosity: 45
Fluid Loss: 8.0
Source of Sample: FLOWLINE
Rm @ Meas. Temp: .08 @ 74
Rmf @ Meas. Temp: .06 @ 74
Rmc @ Meas. Temp: .12 @ 74
Source: Rmf Rmc: M
Rm @ BHT: .08 @ 74
Rmf @ BHT: .06 @ 74
Rmc @ BHT: .12 @ 74

Max. Recorded Temp.: 74 deg. F
Equipment Location: 3 MILES N. OF ROSEBUD
Recorded by: R. LEE
Witnessed by: J. ROSS

Equipment	Serial No.
DIGITAL CALIPER	1
DIGITAL DENSITY	1
DIGITAL GAMMA RAY	1
DIGITAL CONTROL	1
DIGITAL RECORDER	1
DIGITAL TAPE	1
DIGITAL TAPE	1
DIGITAL TAPE	1
DIGITAL TAPE	1
DIGITAL TAPE	1

REMARKS:
Logged with Tool Type as Additional Detailed
Caliper & Density Run
Depth - 2000'
Tool Type & Date
Date: 1 Nov
Time: 1 Hour
Source of Sample
Rm @ Meas. Temp: .08 @ 74
Rmf @ Meas. Temp: .06 @ 74
Rmc @ Meas. Temp: .12 @ 74
Source: Rmf Rmc: M
Rm @ BHT: .08 @ 74
Rmf @ BHT: .06 @ 74
Rmc @ BHT: .12 @ 74

Scale Changes			
Type Log	Depth	Scale Up (Hrs)	Scale Down

Equipment Data		
Run No.	Tool Type	Pad, Arm, Eccen.	Other

Logging Speed					
Time	Depth	Speed	Time	Depth	Speed
CALIPER	1 hr.	1200	3	7434	30
DENS	1 hr.	1200	3	7434	60 - C-4

CALIPER

R.A.DENSITY DETAIL

CALIPER

R.A.DENSITY DETAIL

RED-RESULTED DENSITY

1500 C.P.S. 1500

COMPANY DENISON CORL. LTD.
BOREHOLE TO 7438
FIELD GAGIN
COUNTY STATE Alta.

Pr. Saxon 76 (3)A.

627

GAMMA RAY DETAIL LOG

COMPANY DENISON COAL LTD.
BOREHOLE SD 7618
STATE B.C. COUNTRY CANADA

Permanent Datum GROUND LEVEL Elev ___ Ft.
Log measured from " Ft. above P.D.
Drilling measured from " Ft. above P.D.

Run No.	1			
Depth Scale	20:1			
Date	14.10.76.			
First Reading	176 95			
Last Reading	150 90			
Interval Measured	26 5			
Casing BPB	7.0m			
Casing Driller				
Depth Reached	177.7m			
Bottom Driller				
Mud Nature	WATER			
SG / Viscosity				
Bit Size 1	"?" to T.D.	to	to	to
2	to	to	to	to
3	to	to	to	to
Casing Size 1	4" to 7.0m	to	to	to
2	to	to	to	to
Rm @ Meas Temp.	@	@	@	@
Rmf @ Meas Temp.	@	@	@	@
Rmc @ Meas Temp.	@	@	@	@
BHT				
Operating Time	4hrs.			
Truck No.	V22/25			
Recorded By	MIKE SEAL			
Witness				

fold here

REMARKS

Changes in Mud Type or Additional Samples

Date / Sample No.			
Depth – Driller			
Type Fluid in Hole			
Dens. / Visc.			
ph. / Fluid Loss	ml		
Source of Sample			
Rm @ Meas Temp.	@ °F	@ °F	
Rmf @ Meas Temp.	@ °F	@ °F	
Rmc @ Meas Temp.	@ °F	@ °F	
Source: Rmf / Rmc			
Rm @ BHT	@ °F	@ °F	
Rmf @ BHT	@ °F	@ °F	
Rmc @ BHT	@ °F	@ °F	

Scale Changes

Type Log	Depth	Scale Up Hole	Scale Down

Equipment Data

Run No.	Tool Type	Tool Position	Other

Logging Data

Log	Depths From	Depths To	Speed M/MIN	T.C. SEC	Norm. RATIO	Sonde No.	Source Number
GAMMA	176	90	3	1		82	

DEPTHS 20:1 — GAMMA RAY DETAIL

DEPTHS 20:1 — GAMMA RAY DETAIL

COMPANY DENISON COAL LTD.
BOREHOLE SD 7618
FIELD SAXON
COUNTY ___ STATE B.C.

MY 41485 R

PR - SAXON 76 (3) A. 7617

H.R.DENSITY DETAIL LOG

BPB

COMPANY: DENISON COAL LTD.
BOREHOLE: SD 7618
STATE: B.C. COUNTRY: CANADA

Permanent Datum	GROUND LEVEL	Elev ____ Ft.	
Log measured from	"	Ft. above	P.D.
Drilling measured from	"	Ft. above	P.D.

Run No. / Depth Scale	1 / 20:1		
Date	14.10.76.		
First Reading	176 95		
Last Reading	150 90		
Interval Measured	26 5		
Casing BPB	7.0m		
Casing Driller			
Depth Reached	217.7m		
Bottom Driller			
Mud Nature	WATER		
S.G. / Viscosity			
Bit Size 1	"H" to T.D.	to	to
2	to	to	to
3	to	to	to
Casing Size 1	4" to 7.0m	to	to
2	to	to	to
Rm @ Meas Temp.	@	@	@
Rmf @ Meas Temp.	@	@	@
Rmc @ Meas Temp.	@	@	@
BHT			
Operating Time	4hrs.		
Truck No.	V22/26		
Recorded By	MIKE SEAL		
Witness			

627

fold here

REMARKS

Changes in Mud Type or Additional Samples

Date	Sample No.	Depth – Driller	Type Fluid in Hole	Dens. / Visc.	ph. / Fluid Loss	Source of Sample	Rm @ Meas Temp.	Rmf @ Meas Temp.	Rmc @ Meas Temp.	Source: Rmf / Rmc	Rm @ BHT	Rmf @ BHT	Rmc @ BHT
					ml		@ °F	@ °F	@ °F		@ °F	@ °F	@ °F
							@ °F	@ °F	@ °F		@ °F	@ °F	@ °F

Scale Changes

Type Log	Depth	Scale Up Hole	Scale Down

Equipment Data

Run No.	Tool Type	Tool Position	Other

Logging Data

Log	Depths From	Depths To	Speed M/MIN	T.C. SEC	Norm. RATIO	Sonde No	Source Number
HRD	176	90	2½	1	0.599	83	C-2

H.R.DENSITY

DEPTHS 20:1

H.R.DENSITY DETAIL

DEPTHS 20:1

COMPANY DENISON COAL LTD.
BOREHOLE SD 7618
FIELD SAXON
COUNTY ____ STATE B.C.

MY 41485 R

Fr. Saxon 76 (a)(b)

COMPANY DENISON COAL LTD.
BOREHOLE 90-7618
STATE B.C. COUNTRY CANADA

CALIPER - L.S.DENSITY
LOG

Permanent Datum	GROUND LEVEL
Log measured from	"
Drilling measured from	"
Elev.	Ft.
Ft. above P.D.	
Ft. above P.D.	

Run Number	1	2	
Date	14-10-76		
First Reading	176		
Last Reading	175		
Depth Reached	175.3m		
Casing Size	3.0m		
Casing Depth			
Mud Weight			
Fluid Level	WATER		
Bit Size	3"		
Casing Size	2"		
Top of Mast to Floor	4"		
Top of Mast to Ground			
Top of Mast to Tong			
Start	7.2m		
Finish			
Recorded By	WALTON		
Witnessed By	MIKE SEAL		

fold here

REMARKS

Changes in Mud Type or Additional Samples

Date	Sample No.
Depth ~ Drillar	
Type Fluid in Hole	
Dens.	Visc.
pH	Fluid Loss ml

Source of Sample

Rm @ Meas Temp.	@ °F	@ °F	
Rmf @ Meas Temp.	@ °F	@ °F	
Rmc @ Meas Temp.	@ °F	@ °F	
Source: Rmf Rmc			
Rm @ BHT	@ °F	@ °F	
Rmf @ BHT	@ °F	@ °F	
Rmc @ BHT	@ °F	@ °F	

Scale Changes

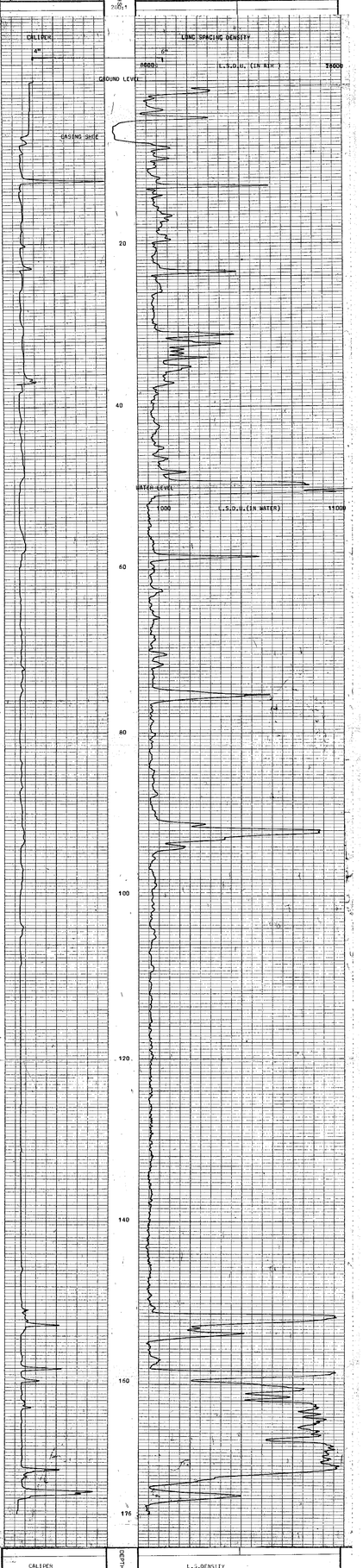
Type Log	Depth	Scale Up Hole	Scale Down
L.S.DENSITY	WATER LEVEL	8000-28800	1000-11000

Equipment Data

Run No.	Tool Type	Tool Position	Other

Logging Data

Log	Depths From	Depths To	Speed ft/min	T.C. SEC	Norm. RATIO	Index	Source Number
CAL	176	0	9	1/3		131	
LSD	176	0	9	1/3	0.786	83	C-50



COMPANY DENISON COAL LTD.
BOREHOLE 90-7618
FIELD SAXON
COUNTY STATE B.C.

COMPANY DENISON COAL LTD.
BOREHOLE JD 7616
STATE B.C. COUNTRY CANADA

GAMMA RAY - RESISTANCE
1:50

Log No.	1
Date	1-7-76
Run No.	1
Depth Driller	218
Depth Logger	218
Bottom Log Interval	218
Top Log Interval	0
Casing - Driller	9.5
Casing - Logger	9.5
Bit Size	8 3/4
Type Fluid in Hole	WATER
Dens.	-
Visc.	-
pH	-
Fluid Loss	-
Source of Sample	-
Rm @ Meas. Temp.	- @ - °F
Rmf @ Meas. Temp.	- @ - °F
Rmc @ Meas. Temp.	- @ - °F
Source Rmf / Rmc	- / -
Rm @ BHT	- @ - °F
Rmf @ BHT	- @ - °F
Rmc @ BHT	- @ - °F
Max. Rec. Temp.	67°F
Equipment Number	1
Location	KITSELAS
Recorded By	R. CHAPMAN
Witnessed By	-

Permanent Datum: GROUND LEVEL
Log Measured from: GROUND LEVEL
Drilling Measured from: -
Elev.: K.B. - | D.F. - | G.L. -
F1 above Perm. Datum
F9

Fold here

REMARKS

Changes in Mud Type or Additional Samples
Date | Sample No. | | | |
Depth - Driller | | | | |
Type Fluid in Hole | | | | |
Dens. | Visc. | | | |
pH | Fluid Loss | ml | | |
Source of Sample
Rm @ Meas. Temp. @ °F @ °F
Rmf @ Meas. Temp. @ °F @ °F
Rmc @ Meas. Temp. @ °F @ °F
Source Rmf / Rmc
Rm @ BHT @ °F @ °F
Rmf @ BHT @ °F @ °F
Rmc @ BHT @ °F @ °F

Scale Changes

Type Log	Depth	Scale Up Hole	Scale Down

Equipment Data

Rec. No.	Tool Type	Tool Position	Other

Logging Data

Log	Depths From	To	Speed F/MIN	Time SEC	Recorder Scale HATFIELD	Source Number
GAMMA	218	0	9	1	B7	

HOLE DRILLED AT 60 DEGREES TO HORIZONTAL

GAMMA RAY | DEPTHS | RESISTANCE

GAMMA RAY

0 A.P.I. 120

GAMMA LEVEL

CASING SHOE

RESISTANCE

20

40

60

80

100

120

140

160

180

200

218

GAMMA RAY | DEPTHS | RESISTANCE

COMPANY DENISON COAL LTD.
BOREHOLE JD 7616
FIELD SAXON
COUNTY _____ STATE B.C.

Ph - Saxon 76 (3/a).

CALIPER , B.R.DENSITY DETAIL LOG

COMPANY DENISON COAL LTD.

BOREHOLE SD 7616

STATE B.C. COUNTRY CANADA

Permanent Datum GROUND LEVEL Elev ___ Ft.

Log measured from " Ft. above P.D.

Drilling measured from " Ft. above P.D.

Run No.	1		
Depth Scale	20:1		
Date	17.10.76.		
First Reading	214 177 83 57 42 32		
Last Reading	204 172 77 51 38 28		
Interval Measured	10 5 5 6 4 4		
Casing BPB	9.6m		
Casing Driller	9.6m		
Depth Reached	219.3m		
Bottom Driller	220.1m		
Mud Nature	WATER		
S.G. / Viscosity			
Bit Size 1	"H" to T.D.	to	to
2	to	to	to
3	to	to	to
Casing Size 1	4" to 9.6m	to	to
2	to	to	to
Rm @ Meas Temp.	@	@	@
Rmf @ Meas Temp.	@	@	@
Rmc @ Meas Temp.	@	@	@
BHT			
Operating Time	4½hrs.		
Truck No.	V22/26		
Recorded By	MIKE SEAL		
Witness			

627

fold here

REMARKS

Changes in Mud Type or Additional Samples

Date	Sample No.			
Depth — Driller				
Type Fluid in Hole				
Dens.	Visc.			
ph.	Fluid Loss	ml		
Source of Sample				
Rm @ Meas Temp.		@ °F	@ °F	
Rmf @ Meas Temp.		@ °F	@ °F	
Rmc @ Meas Temp.		@ °F	@ °F	
Source: Rmf	Rmc			
Rm @ BHT		@ °F	@ °F	
Rmf @ BHT		@ °F	@ °F	
Rmc @ BHT		@ °F	@ °F	

Scale Changes

Type Log	Depth	Scale Up Hole	Scale Down

Equipment Data

Run No.	Tool Type	Tool Position	Other

Logging Data

Log	Depths From	Depths To	Speed M/MIN	T.C. SEC	Norm. RATIO	Source No.	Source Number
CALIPER	214	28	5	1/3		131	
BRD	214	28	2	1		83	C-1*

HOLE DRILLED AT 60 DEGREES TO HORIZONTAL

CALIPER	DEPTHS 20:1	B.R.DENSITY DETAIL

CALIPER	DEPTHS 20:1	B.R.DENSITY DETAIL

COMPANY DENISON COAL LTD.

BOREHOLE SD 7616

FIELD SAXON

COUNTY ____ STATE B.C.

MY 41485 R

COMPANY DENISON COAL LTD.
BOREHOLE SD 7616
FIELD SAXON
COUNTRY CANADA
PROVINCE B.C.

CALIPER L.S.DENSITY
LOC

Permanent Datum
Log measured from
Drilling measured from

Elev.	Ft	
GROUND LEVEL		
Ft. above	P.D.	
Ft. below	P.D.	

No.	Operator	Date
1		13-10-76
2		20-01-77

Run No.	Depth	Date
1	216	13-10-76
2	216	20-01-77

Hole Bore

REMARKS

Changes in Mud Type or Additional Samples

Date	Sample No		
Depth – Driller			
Type Fluid in Hole			
Density	Visc.		
lb	Fluid Loss	ml	

Source of Sample

Flo.	@ Meas Temp	@	°F	@	°F
Rm*	@ Meas Temp	@	°F	@	°F
Rmf	@ Meas Temp	@	°F	@	°F
Source: Rmf	Rmc				
Rm	@ BHT	@	°F	@	°F
Rmf	@ BHT	@	°F	@	°F
Rmc	@ BHT	@	°F	@	°F

Scale Changes

Type Log	Depth	Scale Up Here	Scale Down

Equipment Data

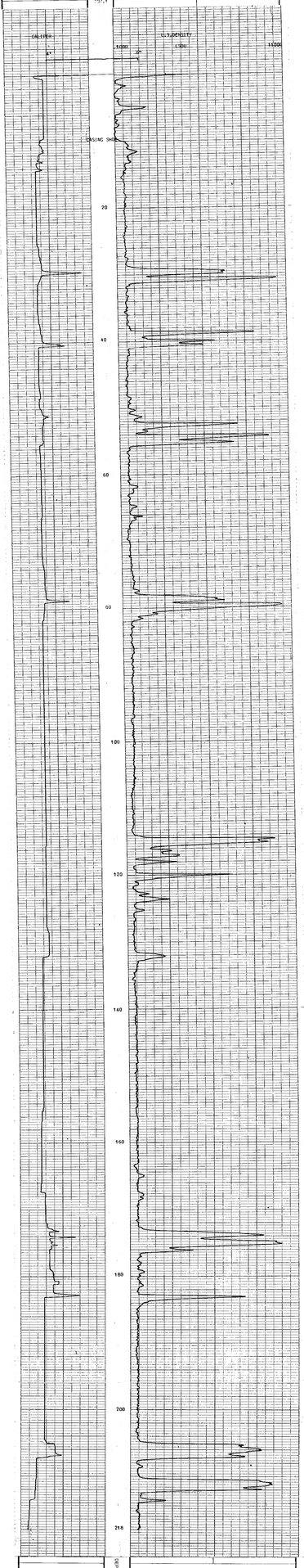
Run No.	Tool Type	Pad/ Pos-Kon	Other

Logging Data

Log	Depth Logged From	To	Speed F/M	Time Const SEC	Norm RATIO	Density Stand	Source Number
CALIPER	216	0	9	1/2		13	
LSD	216	0	9	1/2	5.786	83	C-50

HOLE DRILLED AT 20 DEGREES TO HORIZONTAL

CALIPER | DEPTHS | L.S.DENSITY



CALIPER | DEPTHS | L.S.DENSITY

COMPANY DENISON COAL LTD.
BOREHOLE SD 7616
FIELD SAXON
COUNTY STATE B.C.

Pe-Saxon 76(3)A.

627

GAMMA RAY DETAIL LOG

COMPANY	DENISON COAL LTD.
BOREHOLE	SD 7616
STATE	B.C.
COUNTRY	CANADA
Permanent Datum	GROUND LEVEL Elev ____ Ft.
Log measured from	" Ft. above P.D.
Drilling measured from	" Ft. above P.D.

Run No. / Depth Scale	1 20:1		
Date	17.10.76.		
First Reading	214 177 83 57 42 32		
Last Reading	204 172 77 51 38 28		
Interval Measured	10 5 5 6 4 4		
Casing BPB	9.6m		
Casing Driller	9.6m		
Depth Reached	219.3m		
Bottom Driller	220.1m		
Mud Nature	WATER		
S.G. / Viscosity			
Bit Size 1	"H" to T.D.	to	to
2	to	to	to
3	to	to	to
Casing Size 1	4" to 7.5m	to	to
2	to	to	to
Rm @ Meas Temp	@	@	@
Rmf @ Meas Temp	@	@	@
Rmc @ Meas Temp	@	@	@
BHT			
Operating Time	4½hrs.		
Truck No.	V22/26		
Recorded By	MIKE SEAL		
Witness			

fold here

REMARKS

Changes in Mud Type or Additional Samples			
Date / Sample No.			
Depth — Driller			
Type Fluid in Hole			
Dens. / Visc.			
ph. / Fluid Loss	ml		
Source of Sample			
Rm @ Meas Temp.	@ °F		@ °F
Rmf @ Meas Temp.	@ °F		@ °F
Rmc @ Meas Temp.	@ °F		@ °F
Source: Rmf / Rmc			
Rm @ BHT	@ °F		@ °F
Rmf @ BHT	@ °F		@ °F
Rmc @ BHT	@ °F		@ °F

Scale Changes

Type Log	Depth	Scale Up Hole	Scale Down

Equipment Data

Run No.	Tool Type	Tool Position	Other

Logging Data

Log	Depths From	Depths To	Speed M/MIN	T.C. SEC	Norm RATIO	Sense No.	Source Number
GAMMA	214	28	9	1		82	

HOLE DRILLED AT 60 DEGREES TO HORIZONTAL

DEPTHS 20:1

GAMMA RAY DETAIL

DEPTHS 20:1

GAMMA RAY DETAIL

COMPANY DENISON COAL LTD.

BOREHOLE SD 7616

FIELD SAXON

COUNTY ____ STATE B.C.

MY 4148S R

Re- SAXON 76 (3)A.

627

HIGH RESOLUTION DENSITY LOG

COMPANY DENISON COAL LTD.
BOREHOLE SD 7616
STATE B.C. COUNTRY CANADA

Permanent Datum GROUND LEVEL Elev ___ Ft.
Log measured from " Ft. above P.D.
Drilling measured from " Ft. above P.D.

Run No	1			
Depth Scale	20:1			
Date	17.10.76.			
First Reading	214 177 83 57 42 32			
Last Reading	204 172 77 51 38 28			
Interval Measured	10 5 5 6 5 4			
Casing BPB	9.5m			
Casing Driller	9.6m			
Depth Reached	219.3m			
Bottom Driller	220.1m			
Mud Nature	WATER			
SG / Viscosity				
Bit Size 1	"H" to T.D.	to	to	to
2	to	to	to	to
3	to	to	to	to
Casing Size 1	4" to 9.6m	to	to	to
2	to	to	to	to
Rm @ Meas Temp	@	@	@	@
Rmf @ Meas Temp.	@	@	@	@
Rmc @ Meas Temp.	@	@	@	@
BHT				
Operating Time	4½hrs.			
Truck No.	V22/26			
Recorded By	MIKE SEAL			
Witness				

fold here

REMARKS

Changes in Mud Type or Additional Samples				
Date / Sample No.				
Depth – Driller				
Type Fluid in Hole				
Dens. / Visc.				
ph. / Fluid Loss		ml		
Source of Sample				
Rm @ Meas Temp.	@	°F	@	°F
Rmf @ Meas Temp.	@	°F	@	°F
Rmc @ Meas Temp.	@	°F	@	°F
Source: Rmf / Rmc				
Rm @ BHT	@	°F	@	°F
Rmf @ BHT	@	°F	@	°F
Rmc @ BHT	@	°F	@	°F

Scale Changes

Type Log	Depth	Scale Up Hole	Scale Down

Equipment Data

Run No.	Tool Type	Tool Position	Other

Logging Data

Log	Depths From	Depths To	Speed M/MIN	T.C. SEC	Norm RATIO	Sonde No	Source Number
HRD	214	28	2½	1	).595	63	C-2

HOLE DRILLED AT 60 DEGREES TO HORIZONTAL

H.R.DENSITY

DEPTHS 20:1

DEPTHS 20:1

H.R.DENSITY DETAIL

COMPANY DENISON COAL LTD.
BOREHOLE SD 7616
FIELD SAXON
COUNTY ___ STATE B.C.

MY 4148S R

P2- Sarron 76(B)A.

GAMMA RAY , NEUTRON-NEUTRON LOG

COMPANY DENSON COAL LTD.
BOREHOLE SD 7615
STATE B.C. COUNTRY CANADA

Permanent Datum GROUND LEVEL Elev. Ft.
Log measured from " Ft. above P.D.
Drilling measured from " Ft. above P.D.

Run No	Depth-Scale 1	200ft		
Date	8.10.76.			
First Reading	216.			
Last Reading	0			
Interval Measured	216			
Casing-Bottom	3.8m			
Casing-Driller				
Depth Reached	217.7M			
Bottom Driller				
Mud Nature	WATER			
S.O. ; Viscosity				
Rm-Size 1	~"	@ 2.0	@	@
2		@	@	@
3		@	@	@
Closing-Size 1	4"	@ 3.8m	@	@
2		@	@	@
3		@	@	@
Rm @ Meas Temp		@	@	@
Rmf @ Meas Temp		@	@	@
Rmc @ Meas Temp		@	@	@
BHT				
Operating Time	6hrs.			
Truck No	V22726			
Reported By	MIKE SEAL			
Witness				

627

REMARKS

Run No. Depth-Scale Log-Interval Scale Type Date
Run 1 Depth-Scale 1 200ft 8.10.76.
Log-Interval 216 to 0
Type Fluid in Hole WATER

Open 1 inch
Run 1 Depth-Scale 1 200ft
Run 2 Depth-Scale
Run 3 Depth-Scale
Run 1 @ Meas Temp @ @ @ @
Run 2 @ Meas Temp @ @ @ @
Run 3 @ Meas Temp @ @ @ @
Time Since Circ. Run 1 Run 2 Run 3
Max. Rec. Temp. @ @ @ @
Equip. Location Run 1 Run 2 Run 3
Rec. @ Bott. @ @ @
Max. @ Bott. @ @ @

Scale Changes Run 1 Run 2 Run 3
Scale Changes

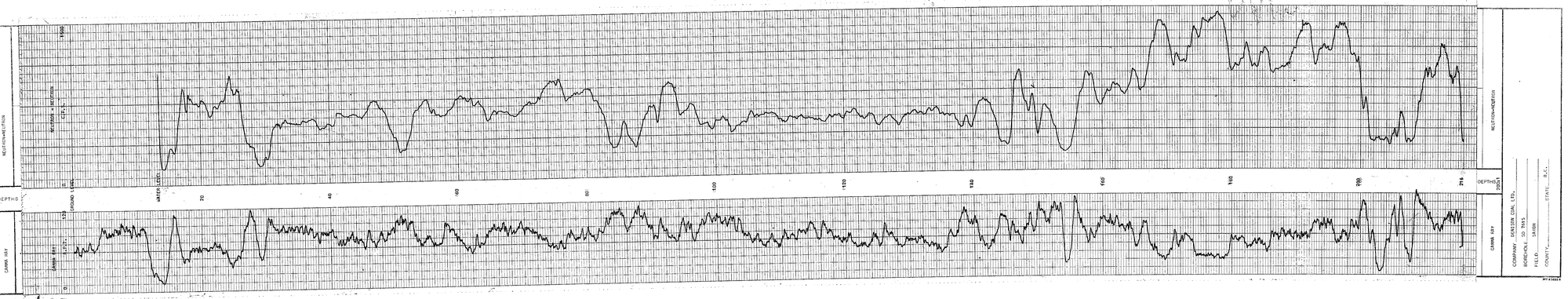
Equipment Field Office Recorded by
Equipment Field Office Witnessed by

Equipment Location Run 1 Run 2 Run 3
Equipment Location

Recorded by Witnessed by
Recorded by Witnessed by

Log Interval Scale Type Date
Log Interval 216 to 0 1" 1" 1" 1" Ecl

RGC DRILLED TO 3.8 SECONDS TO WATER LEVEL



NEUTRON-NEUTRON

GAMMA RAY

COMPANY DENSON COAL LTD.
BOREHOLE SD 7615
FIELD SARON
COUNTY STATE B.C.

MT 4 3 5 6 5 8

Re Screen Re Calib.

COMPANY	DENISON COAL LTD.
BOREHOLE	SD 7615
STATE	B.C.
COUNTRY	CANADA

CALIPER - L.S.DENSITY
LOG

Permanent Datum	GROUND LEVEL	Elev.	0 ft
Log measured from		F.t. above	P.D.
Drilling Measured from		F.t. above	P.D.

Date	8/10/76		
Run No.	One		
Depth-Driller	216		
Depth-Logger	200.1		
Bottom Logged Interval	216		
Top Log Interval	0		
Casing-Driller	3 1/2 @		
Casing-Logger	3 1/2 @		
Bit Size	3 7/8 in		
Type Fluid in Hole	WATER		
Dens.			
Visc.			
pH			
Fluid Loss			
Source of Sample			
Rm @ Meas. Temp.		@ °F	
Rmf @ Meas. Temp.		@ °F	
Rmc @ Meas. Temp.		@ °F	
Source: Rmf / Rmc			
Rm @ BHT		@ °F	@ °F
Rmf @ BHT		@ °F	@ °F
Rmc @ BHT		@ °F	@ °F
Max. Rec. Temp. °F	72		
Equipment-Location	SAVAN		
Recorded By			
Witnessed By			

Witness

Sample Description

Type Log	Depth	Scale Up Hole	Scale Down

Scale Changes

Run No.	Tool Type	Tool Position	Other

Equipment Data

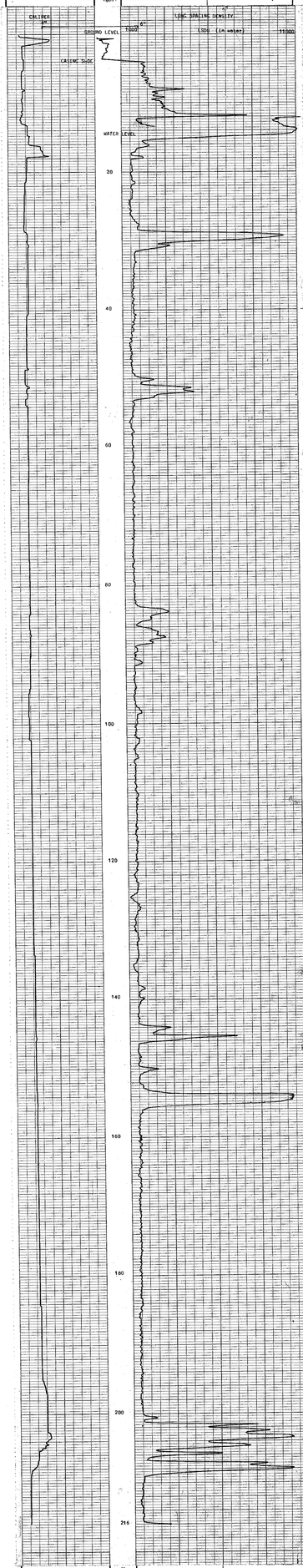
Type Log	Depth	Scale	Time	Max. Rec. Temp.	Equipment Number
		Speed	T.C.		
		MAIN SEC	RATIO		
CALIPER	216	0	9	1/1	131
L.S.	216	0	3	1/2	0.766	83	C-50

REMARKS

Changes in Mud Type or Additional Samples

Date	Sample No.		
Depth - Driller			
Type Fluid in Hole			
Dens.	Visc.		
pH	Fluid Loss	ml	
Source of Sample			
Rm @ Meas. Temp.	@ °F	@ °F	
Rmf @ Meas. Temp.	@ °F	@ °F	
Rmc @ Meas. Temp.	@ °F	@ °F	
Source: Rmf / Rmc			
Rm @ BHT	@ °F	@ °F	
Rmf @ BHT	@ °F	@ °F	
Rmc @ BHT	@ °F	@ °F	

HOLE DRILLED AT 35 DEGREES TO HORIZONTAL



COMPANY DENISON COAL LTD.

BOREHOLE SD 7615

FIELD SAVAN

COUNTY _____ STATE B.C.

STATION

RE - SASON 16 FIELD.

COMPANY DENISON COAL LTD.

BOREHOLE SD 9455

STATE B.C. COUNTRY CANADA

Permanent Datum GROUND LEVEL Elev. FT.

Log Measured From Ground Level Above Perm. Datum 0 FT.

Drilled From Ground Level Above Perm. Datum 0 FT.

1	Date	4-5-83	
2	Run No.	ONE	
3	Depth-Driller	215.4	
4	Depth-Logger	215.4	
5	Bottom Log Interval	215.4	
6	Top Log Interval	0	
7	Casing-Driller	0	
8	Casing-Logger	0	
9	Bit Size	5 7/8"	
10	Type Fluid in Hole	WATER	
11	Dens.		
12	Visc.		
13	pH		
14	Fluid Loss		
15	Source of Sample		
16	Rm @ Meas. Temp.	@ °F	Ω-m
17	Rmf @ Meas. Temp.	@ °F	Ω-m
18	Rmc @ Meas. Temp.	@ °F	Ω-m
19	Source: Rmf / Rmc		
20	Rm @ BHT	@ °F	Ω-m
21	Rmf @ BHT	@ °F	Ω-m
22	Rmc @ BHT	@ °F	Ω-m
23	Max. Recorded Temp.	°F	
24	Equipment No.	9255	
25	Location	Prince Rupert	
26	Recorded By	D.L.	
27	Witnessed By		

627

REMARKS:

Changes in Mud Type or Additional Samples

Date	Sample No.		
Depth	Gelas		
Type Fluid in Hole			
Dens.	Visc.		
pH	Fluid Loss		

Source of Sample

Rm @ Meas. Temp.	@ °F	@ °F	Ω-m
Rmf @ Meas. Temp.	@ °F	@ °F	Ω-m
Rmc @ Meas. Temp.	@ °F	@ °F	Ω-m
Source: Rmf / Rmc			
Rm @ BHT	@ °F	@ °F	Ω-m
Rmf @ BHT	@ °F	@ °F	Ω-m
Rmc @ BHT	@ °F	@ °F	Ω-m

Time Since Circulation: Stopped / Logged

Type Log	Depth	Scale Up Hour	Scale Down Hour

Equipment Data

Run No.	Tool Type	Tool Position	Offset

Log Depths

Log	Depths From	To	Scale Change	Max. Recorded Temp.	Time Since Circulation	Source
HRD	210	27	25	1	0.099	85	C-2

HOLE DRILLED AT 55 DEGREES TO HORIZONTAL

DENSITY

H.R. DENSITY DETAIL

HIGH RESOLUTION DENSITY DETAIL

4000 HRD 8000

27

29

31

32

152

153

155

157

200

201

203

205

207

209

210

211

DENSITY

H.R. DENSITY DETAIL

COMPANY DENISON COAL LTD.

BOREHOLE SD 9455

FIELD SASON

COUNTY B.C. STATE

PR. SAXON 76 (GJD.

BPB

B.H. DENSITY DETAIL LOG

COMPANY DENISON COAL LTD.
BOREHOLE SD 7815
STATE B.C. COUNTRY CANADA

Permanent Datum GROUND LEVEL Elev. — Ft.
Log measured from " Ft. above P.D.
Drilling measured from " Ft. above P.D.

Run No.	Depth-Scale	1	2&1		
Date		8.10.76.			
First Reading		250 157.32			
Last Reading		220 152.27			
Interval Measured		10	5	5	
Casing BPB		3.0m			
Casing Driller		3.0m			
Depth Reached		217.7m			
Bottom Driller					
Mud Nature		WATER			
D.C.	Viscosity				
Bit Size 1		NQ	to 1.0m	to	to
2			to	to	to
3			to	to	to
Casing Size 1		4"	to 3.0m	to	to
2			to	to	to
Rat. @ Meas. Temp.		@		@	@
Rat. @ Meas. Temp.		@		@	@
Rmc @ Meas. Temp.		@		@	@
Bht					
Operating Time		Shift			
Truck No.		122/26			
Recorded By		MIKE SEAL			
Witness					

627

Side Entry

Cleaning Mud Hole or Unusual events
Depth - From
Depth - To
Time Spent
Cause

Bit Type | Size | Hours Used
Rm @ Meas. Temp.
Rmf @ Meas. Temp.
Rmc @ Meas. Temp.
Rm @ BHT
Rmf @ BHT
Rmc @ BHT

Date Changed
Hole No.
Test Type
Recording Mode
Test Pressure
Other

Log Depth
Casing Depth
Bit Size
Mud Type
Mud Wt.
Mud Viscosity
Fluid Loss
Max. Temp.
Time Since Circ.
Time Since Rmc
Max. Rec. Temp.
Equip. Location
Rec. Time

REMARKS

HOLE DRILLED AT 60° DOWNHOLE TO HORIZONTAL

COMPANY DENISON COAL LTD.
BOREHOLE SD 7815
FIELD SAXON
COUNTY
STATE B.C.

B.H. DENSITY DETAIL

MT 4 5 6 8 9

COMPANY DENISON COAL LTD.
BOREHOLE SD 7855
STATE B.C. COUNTY SAANICH
FIELD SAXON
Log Generated from Original Data
Drilling completed from 0 to 210 ft.
Date 1979 Jan 17
Run No. 1
Depth Driller 210
Depth Logged 210
Top Log Interval 0
Casing Driller 0
Casing Logged 0
Bit 5 7/8 in.
Type Fluid in Hole AIR
Dens. N/A
Visc. N/A
pH N/A
Fluid Loss N/A
Source of Sample N/A
R_m @ Meas. Temp. N/A @ N/A °F
R_mf @ Meas. Temp. N/A @ N/A °F
R_mc @ Meas. Temp. N/A @ N/A °F
Source: Rmf Rmc N/A
R_m @ BHT N/A @ N/A °F
R_mf @ BHT N/A @ N/A °F
R_mc @ BHT N/A @ N/A °F
Max. Rec. Temp. 25°C
Equipment No. 1214
Location N/A
Recorded By R.G. SAL
Witnessed By N/A

GAMMA RAY DETAIL
LOG

627

REMARKS

Changes in Mud Type or Additional Samples

Time	Sample No.	Depth	Density	Viscosity

Type Fluid in Hole

Dens.	Visc.

Source of Sample

Rm	@ Meas. Temp.	@ °F	Rmf	@ °F
Rmc	@ Meas. Temp.	@ °F	Rm	@ °F
Rmf	@ Meas. Temp.	@ °F	Rmc	@ °F
Source: Rmf Rmc		Rm		
Rm	@ BHT	@ °F	Rmf	@ °F
Rmf	@ BHT	@ °F	Rmc	@ °F
Rmc	@ BHT	@ °F	Rm	@ °F

Scale Changes

Type Log	Depth	Scale up Hole	Scale Down

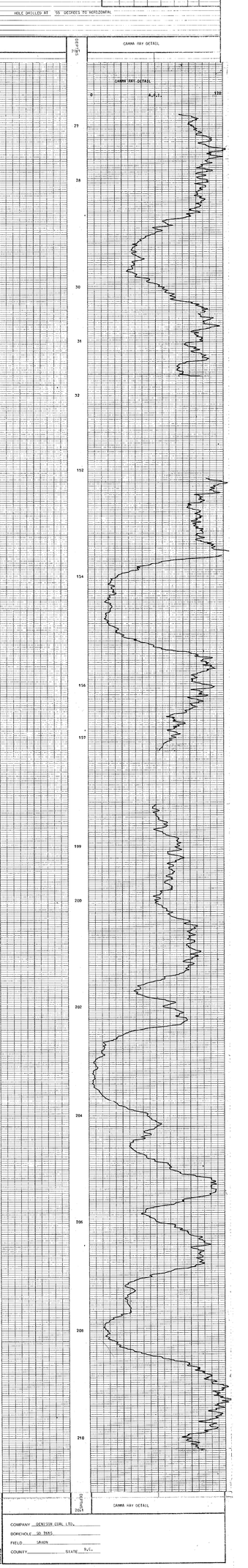
Equipment Data

Run No.	Run Type	Tool Position	Other

Equipment Data

Log	Gamma Ray	Neutron	Density	Caliper	Resistivity	Sonic	Temperature
GAMMA	210	27	5	1	RATIO		PE

HOLE DRILLED AT 55 DEGREES TO HORIZONTAL



COMPANY DENISON COAL LTD.
BOREHOLE SD 7855
FIELD SAXON
COUNTY STATE B.C.

Re. Section 16 Calc.

COMPANY DENISON COAL LTD.
BOREHOLE SD 7614
STATE B.C.

GAMMA RAY & RESISTANCE

COUNTRY CANADA

Permanent Datum	GROUND LEVEL	Elev.	Ft.
Log measured from	—	Ft. above	P.D.
Drilling measured from	GROUND LEVEL	Ft. above	P.D.

Date	4-13-76	Type Log	1
Run No.	One	Depth-Driller	218
Depth-Logger	—	Bottom Logged Interval	218
Top Log Interval	—	Casing Driller	8 5/8 @ 0
Casing Logger	—	Bit Size	7 7/8
Type Fluid in Hole	WATER	Dens.	—
Visc.	—	pH	—
Fluid Loss	—	ml	
Source of Sample			
Rm @ Meas Temp.	— @ — °F	Rmf @ Meas Temp.	— @ — °F
Rmc @ Meas Temp.	— @ — °F	Source: Rmf Rmc	
Rm @ BHT	— @ — °F	Rmf @ BHT	— @ — °F
Rmc @ BHT	— @ — °F		
Max. Rec. Temp.	— °F	Equipment & Base	1
Operating Time	5 hrs.	Truck No.	22-76
Recorded by	R.G. Sch.	Witnessed by	

Total Fluid

REMARKS

Changes in Mud Type or Additional Samples

Date	Sample No.	Depth - Driller

Type Fluid in Hole

Dens. Visc.
pH Fluid Loss ml
Source of Sample
Rm @ Meas Temp. @ °F Rmf @ Meas Temp. @ °F
Rmc @ Meas Temp. @ °F Source: Rmf Rmc
Rm @ BHT @ °F Rmf @ BHT @ °F
Rmc @ BHT @ °F

Scale Changes

Type Log	Depth	Scale Up Hole	Scale Down

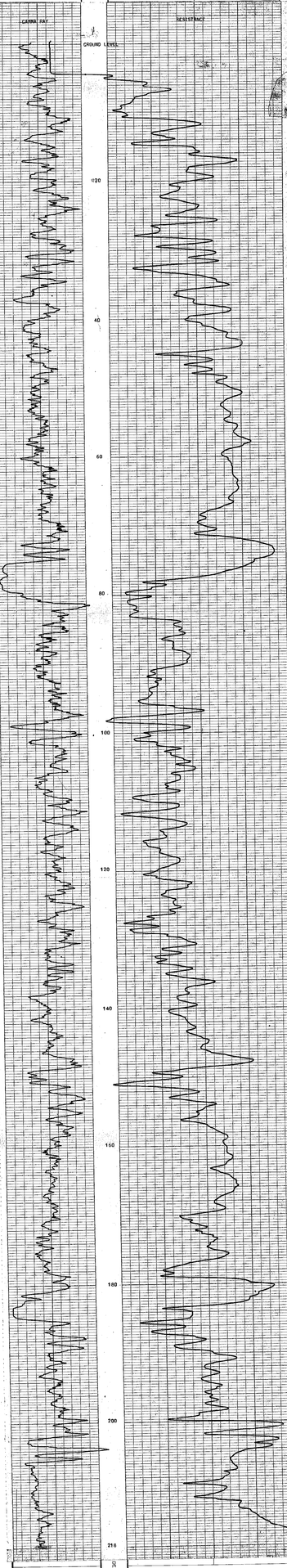
Equipment Data

Run No.	Tool Type	Tool Position	Other

Logging Data

Log	Depth Scale Interval From	To	Speed	Time Const.	Scale Divisions	Source Number
RES	218	0	15			
GAMMA	218	0	9	1	82	

HOLE INCLINED AT 60 DEGREES TO HORIZONTAL
RESISTANCE LOG 2 METRES TOO HIGH



COMPANY DENISON COAL LTD.
BOREHOLE SD 7614
FIELD SAXON
COUNTY STATE B.C.

627

Pr - Saxon 76 (3)A.

H.R.DENSITY DETAIL LOG

COMPANY DENISON COAL LTD.
BOREHOLE SD 7614
STATE B.C. COUNTRY CANADA B

Permanent Datum GROUND LEVEL Elev ____ Ft.
Log measured from " Ft. above P.D.
Drilling measured from " Ft. above P.D.

Run No.	1		
Depth Scale	20:1		
Date	4.10.76.		
First Reading	207 187 151 100 84		
Last Reading	196 180 147 96 71		
Interval Measured	11 7 4 4 13		
Casing BPB	6.4m		
Casing Driller	6.4m		
Depth Reached	219.0m		
Bottom Driller	220.1m		
Mud Nature	WATER		
S.G. / Viscosity			
Bit Size 1	"H" to T.D.	to	to
2	to	to	to
3	to	to	to
Casing Size 1	4" to 6.4m	to	to
2	to	to	to
Rm @ Meas Temp.	@	@	@
Rmf @ Meas Temp.	@	@	@
Rmc @ Meas Temp.	@	@	@
BHT			
Operating Time	5hrs.		
Truck No.	V22/26		
Recorded By	MIKE SEAL		
Witness			

627

fold here

REMARKS

Changes in Mud Type or Additional Samples				
Date	Sample No.			
Depth – Driller				
Type Fluid in Hole				
Dens.	Visc.			
ph.	Fluid Loss	ml		
Source of Sample				
Rm @ Meas Temp.	@ °F	@ °F		
Rmf @ Meas Temp.	@ °F	@ °F		
Rmc @ Meas Temp.	@ °F	@ °F		
Source: Rmf	Rmc			
Rm @ BHT	@ °F	@ °F		
Rmf @ BHT	@ °F	@ °F		
Rmc @ BHT	@ °F	@ °F		

Scale Changes

Type Log	Depth	Scale Up Hole	Scale Down

Equipment Data

Run No.	Tool Type	Tool Position	Other

Logging Data

Log	Depths From	Depths To	Speed M/MIN	T.C SEC	Norm RATIO	Serial No.	Source Number
HRD	207	71	2½	1	0.599	83	C-2

HOLE INCLINED AT 60 DEGREES TO HORIZONTAL

COMPANY DENISON COAL LTD.
BOREHOLE SD 7614
FIELD SAXON
COUNTY ____ STATE B.C.

MY 41485 R

N. SAXON 76 (3) A

B.R.DENSITY DETAIL LOG

COMPANY DENISON COAL LTD.
BOREHOLE SD 7614
STATE B.C. COUNTRY CANADA

Permanent Datum GROUND LEVEL Elev ___ Ft.
Log measured from " Ft.above P.D.
Drilling measured from " Ft.above P.D.

Run No.	1		
Depth Scale	20:1		
Date	4.10.76.		
First Reading	207 187 151 100 84		
Last Reading	196 180 147 96 71		
Interval Measured	11 7 4 4 13		
Casing BPB	6.4m		
Casing Driller	6.4m		
Depth Reached	219.0m		
Bottom Driller	220.1m		
Mud Nature	WATER		
S.G. / Viscosity			
Bit Size 1	"H" to T.D.	to	to
2	to	to	to
3	to	to	to
Casing Size 1	4" to 6.4m	to	to
2	to	to	to
Rm @ Meas Temp	@	@	@
Rmf @ Meas Temp	@	@	@
Rmc @ Meas Temp	@	@	@
BHT			
Operating Time	5hrs.		
Truck No.			
Recorded By	V22/26		
Witness	MIKE SEAL		

627

fold here

REMARKS

Changes in Mud Type or Additional Samples

Date / Sample No.		
Depth — Driller		
Type Fluid in Hole		
Dens. / Visc.		
pH / Fluid Loss		ml
Source of Sample		
Rm @ Meas Temp.	@ °F	@ °F
Rmf @ Meas Temp.	@ °F	@ °F
Rmc @ Meas Temp.	@ °F	@ °F
Source: Rmf / Rmc		
Rm @ BHT	@ °F	@ °F
Rmf @ BHT	@ °F	@ °F
Rmc @ BHT	@ °F	@ °F

Scale Changes

Type Log	Depth	Scale Up Hole	Scale Down

Equipment Data

Run No.	Tool Type	Tool Position	Other

Logging Data

Log	Depths From	Depths To	Speed M/MIN	T.C. SEC	Norm. RATIO	Sens.	Source Number
BRD	207	71	2	1		83	C-1*

HOLE INCLINED AT 60 DEGREES TO HORIZONTAL

	DEPTH 20:1	B.R.DENSITY

	DEPTHS 20:1	B.R.DENSITY DETAIL

COMPANY DENISON COAL LTD.
BOREHOLE SD 7614
FIELD SAXON
COUNTY ___ STATE B.C.

MY 41485 R

629

COMPANY	DOMINION CORP. LTD.
WELL	32 TB14
FIELD	BRAVO
COUNTY	
STATE	Alta.

GAMMA RAY DETAIL

COMPANY	DOMINION CORP. LTD.
WELL	32 TB14
FIELD	BRAVO
COUNTY	
STATE	Alta.

GAMMA RAY DETAIL

COMPANY	DOMINION CORP. LTD.
WELL	32 TB14
FIELD	BRAVO
COUNTY	
STATE	Alta.

GAMMA RAY DETAIL

COMPANY	DOMINION CORP. LTD.
WELL	32 TB14
FIELD	BRAVO
COUNTY	
STATE	Alta.

GAMMA RAY DETAIL

COMPANY	DOMINION CORP. LTD.
WELL	32 TB14
FIELD	BRAVO
COUNTY	
STATE	Alta.

GAMMA RAY DETAIL

COMPANY	DOMINION CORP. LTD.
WELL	32 TB14
FIELD	BRAVO
COUNTY	
STATE	Alta.

GAMMA RAY DETAIL

COMPANY	DOMINION CORP. LTD.
WELL	32 TB14
FIELD	BRAVO
COUNTY	
STATE	Alta.

GAMMA RAY DETAIL

COMPANY	DOMINION CORP. LTD.
WELL	32 TB14
FIELD	BRAVO
COUNTY	
STATE	Alta.

GAMMA RAY DETAIL

COMPANY	DOMINION CORP. LTD.
WELL	32 TB14
FIELD	BRAVO
COUNTY	
STATE	Alta.

GAMMA RAY DETAIL

COMPANY	DOMINION CORP. LTD.
WELL	32 TB14
FIELD	BRAVO
COUNTY	
STATE	Alta.

GAMMA RAY DETAIL

82-28-004 26 Sa 36

4729

COMPANY DENISON COAL LTD.
BOREHOLE SD 7614
STATE B.C. COUNTRY CANADA

CALIPER L.S.DENSITY
LOG

Permanent Datum	GROUND LEVEL Elev. ft.
Log measured from	ft. Above P.D.
Drilling measured from	ft. Above P.D.

Run No.	One	Two	Three
Date	2-11-84		
Depth-Driller	218		
Depth-Logger	218		
Bottom Logged Interval	218		
Top Logged Interval	0		
Casing-Driller	6" @ 0		
Casing-Logger	6" @ 0		
Bit Size	4 7/8"		
Type Fluid in Hole	AIR		
Dens. / Visc.			
pH / Fluid Loss			
Source of Sample			
Rm @ Meas. Temp.	@ °F	@ °F	
Rmf @ Meas. Temp.	@ °F	@ °F	
Rmc @ Meas. Temp.	@ °F	@ °F	
Source: Rmf / Rmc			
Rm @ BHT	@ °F	@ °F	
Rmf @ BHT	@ °F	@ °F	
Rmc @ BHT	@ °F	@ °F	
Max. Rec. Temp.	50°F		
Equipment No.	2004		
Location	WINE SEAL		
Recorded By			
Witnessed By			

Not to Scale

REMARKS

Changes in Mud Type or Additional Samples:

Date	Sample No.		
Depth - Driller			
Type Fluid in Hole			
Dens. / Visc.			
pH / Fluid Loss		ml	
Source of Sample			
Rm @ Meas. Temp.	@ °F	@ °F	
Rmf @ Meas. Temp.	@ °F	@ °F	
Rmc @ Meas. Temp.	@ °F	@ °F	
Source: Rmf / Rmc			
Rm @ BHT	@ °F	@ °F	
Rmf @ BHT	@ °F	@ °F	
Rmc @ BHT	@ °F	@ °F	

Scale Changes

Type Log	Depth	Scale Up Hole	Scale Down

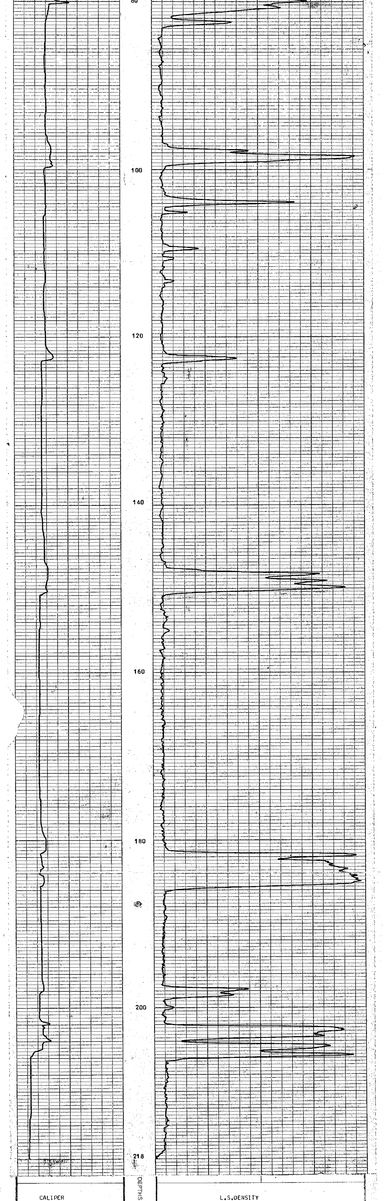
Equipment Data

Run No.	Tool Type	Tool Position	Other

Logging Data

Log	Depths From	Depths To	Speed M/M	Speed S/C	Horn RATIO	Sensitivity	Source Number
CALIPER	218	0	9	1/3	0.706	85	C-50
L&D	218	0	9	1/3	0.706	85	C-50

HOLE INCLINED AT 60 DEGREES TO HORIZONTAL



COMPANY DENISON COAL LTD.
BOREHOLE SD 7614
FIELD SAXON
COUNTY STATE B.C.

Re-Saxon 76 Cable

GAMMA RAY - RESISTANCE LOG

COMPANY DENISON COAL LTD.
BOREHOLE S.D. 7611
STATE B.C.
COUNTRY CANADA

GROUND LEVEL Elev. Ft.
Permanent Datum
Drilling measured from KB
Elevation Ft. above P.D.

Run No. Date Logged	1	1	2
Time Recorded	1:00	2:30	
Depth Driller	200'		
Depth Logger	200'		
Casing Driller	5 5/8"		
Casing Logger	5 5/8"		
Bit Size	5 5/8"		
Type Fluid in Hole	WATER		
Max. Rec. Temp.	70°F		
Equipment No.	3		
Recorded By	R.D.C.		
Witnessed By			

Run No. Date Logged	1	1	2
Time Recorded	1:00	2:30	
Depth Driller	200'		
Depth Logger	200'		
Casing Driller	5 5/8"		
Casing Logger	5 5/8"		
Bit Size	5 5/8"		
Type Fluid in Hole	WATER		
Max. Rec. Temp.	70°F		
Equipment No.	3		
Recorded By	R.D.C.		
Witnessed By			

Run No. Date Logged	1	1	2
Time Recorded	1:00	2:30	
Depth Driller	200'		
Depth Logger	200'		
Casing Driller	5 5/8"		
Casing Logger	5 5/8"		
Bit Size	5 5/8"		
Type Fluid in Hole	WATER		
Max. Rec. Temp.	70°F		
Equipment No.	3		
Recorded By	R.D.C.		
Witnessed By			

Run No. Date Logged	1	1	2
Time Recorded	1:00	2:30	
Depth Driller	200'		
Depth Logger	200'		
Casing Driller	5 5/8"		
Casing Logger	5 5/8"		
Bit Size	5 5/8"		
Type Fluid in Hole	WATER		
Max. Rec. Temp.	70°F		
Equipment No.	3		
Recorded By	R.D.C.		
Witnessed By			

REMARKS

Changes in Mud Type or Additional Samples

Date	Sample No		
Depth – Driller			
Type Fluid in Hole			

Down Visc.
ph Fluid Loss ml

Source of Sample

Rm @ Meas Temp.	@ °F	@ °F
Rmf @ Meas Temp.	@ °F	@ °F
Rmc @ Meas Temp.	@ °F	@ °F
Source: Rmf Rmc		
Rm @ BHT	@ °F	@ °F
Rmf @ BHT	@ °F	@ °F
Rmc @ BHT	@ °F	@ °F

Scale Changes

Type Log	Depth	Scale Up Hole	Scale Down

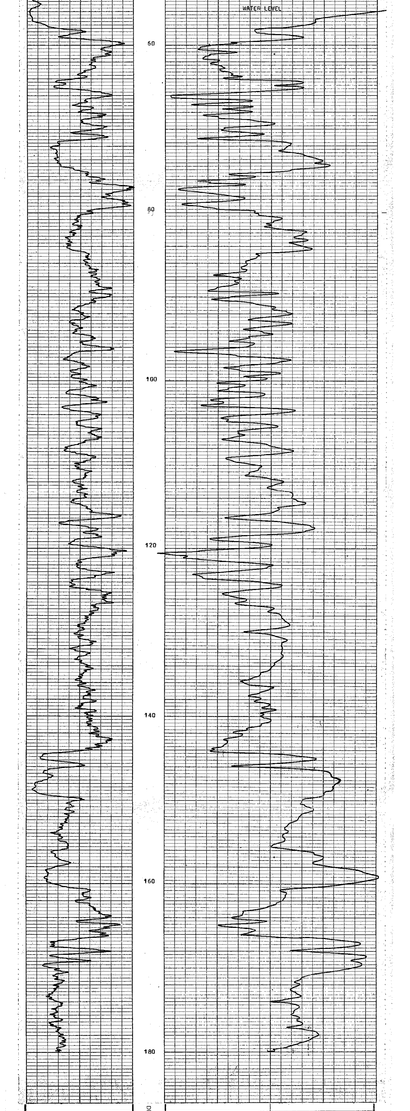
Equipment Data

Run No.	Tool Type	Tool Position	Other

Logging Data

Log	Depths From	To	Speed FT/MIN	Sensitivity	Time Constant Seconds
DEV	100		NONE	SEC	
GAMMA	100	0	9	1	.02

HOLE INCLINED AT 70 DEGREES TO HORIZONTAL



COMPANY DENISON COAL LTD.
BOREHOLE S.D. 7611
FIELD SAXON
COUNTY STATE B.C.

Re - Saxon 76 (S)A.

CALIPER + L.S.DENSITY
LOG

COMPANY DENISON COAL LTD.
BOREHOLE SD 7611
STATE B.C. COUNTRY CANADA

Permanent Datum GROUND LEVEL Elev. Ft.
Log measured from " Ft. above P.D.
Drilling measured from " Ft. above P.D.

Date No. (Dominion)	23-4-76		
First Reading	2001		
Last Reading	2001		
Interval Measured	1.90		
Count Rate	5.46		
Count Rate Standard	19.73		
Depth Reached	19.73		
Max Recorded Count	48164		
S.S. Serial No.			
S.S. Value			
Density	1.2		
Time	0		
Density Scale	3		
Cable Type	5.5m		
Run	1		
Time @ Start Time	0		
Time @ Stop Time	0		
Operator			
Recorded By			
Witnessed By			

Date 23-4-76
Time 10:00
Recorded By
Witnessed By
RATE SCAL

REMARKS

Changes in Mud Type or Additional Samples

Date	Sample No.	
Depth - Driller		
Type Fluid in Hole		
Dens.	Visc.	
pH	Fluid Loss	ml
Source of Sample		
Rm @ Meas Temp	@ °F	@ °F
Rmf @ Meas Temp	@ °F	@ °F
Rmc @ Meas Temp	@ °F	@ °F
Source: Rmf Rmc		
Rm @ BHT	@ °F	@ °F
Rmf @ BHT	@ °F	@ °F
Rmc @ BHT	@ °F	@ °F

Scale Changes

Type Log	Depth	Scale Up Hole	Scale Down
LSD	56	6000-22000	1000-11000

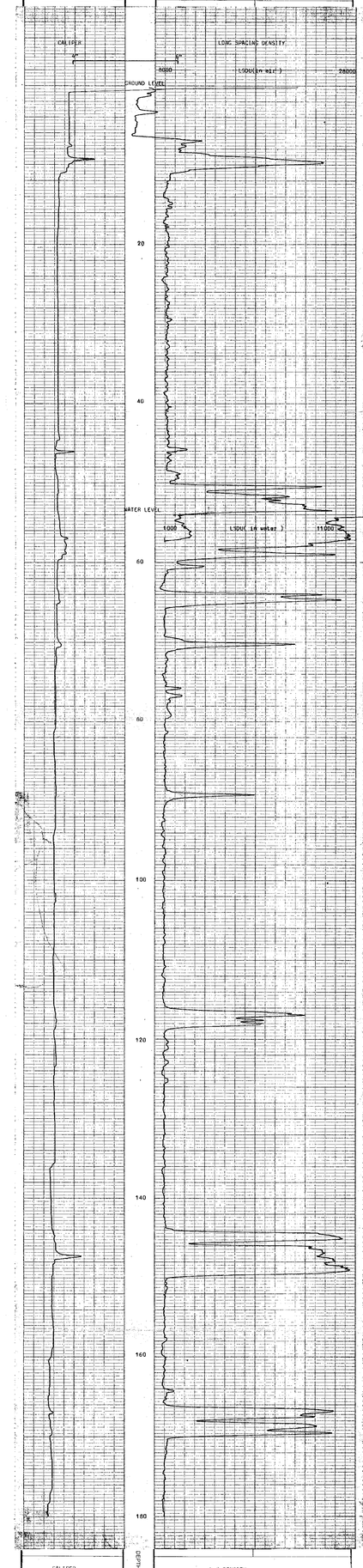
Equipment Data

Run No.	Tool Type	Tool Position	Other

Logging Data

Log	Depths From	To	Speed M/MIN	T.C. SEC	Norm. RATIO	Source Number
CAL	180	0	9	1/3	131	
LSD	180	0	9	1/3	0.786	83 C-50

HOLE INCLINED AT 90 DEGREES TO HORIZONTAL



COMPANY DENISON COAL LTD.
BOREHOLE SD 7611
FIELD SAXON
COUNTY
STATE B.C.

PR-SAXON 76(3)A

627

B.R.DENSITY DETAIL LOG

COMPANY DENISON COAL LTD.
BOREHOLE SD 7611
STATE B.C. COUNTRY CANADA

Permanent Datum GROUND LEVEL Elev ___ Ft.
Log measured from " Ft. above P.D.
Drilling measured from " Ft. above P.D.

Run No	1			
Depth Scale	20:1			
Date	27.9.76.			
First Reading	171 151 120 68 58 12			
Last Reading	165 143 115 58 49 6			
Interval Measured	6 8 5 10 9 6			
Casing BPB	6.9m			
Casing Driller	6.8m			
Depth Reached	181.2m			
Bottom Driller	181.3m			
Mud Nature	WATER			
SG / Viscosity				
Bit Size 1	"H" to T.D.	to	to	
2	to	to	to	
3	to	to	to	
Casing Size 1	4" to 6.8m	to	to	
2	to	to	to	
Rm @ Meas Temp.	@	@	@	
Rmf @ Meas Temp.	@	@	@	
Rmc @ Meas Temp.	@	@	@	
BHT				
Operating Time	4½hrs.			
Truck No.	V22/26			
Recorded By	MIKE SEAL			
Witness				

fold here

REMARKS

Changes in Mud Type or Additional Samples				
Date / Sample No.				
Depth — Driller				
Type Fluid in Hole				
Dens / Visc.				
ph / Fluid Loss		ml		
Source of Sample				
Rm @ Meas Temp.	@	°F	@	°F
Rmf @ Meas Temp.	@	°F	@	°F
Rmc @ Meas Temp	@	°F	@	°F
Source: Rmf / Rmc				
Rm @ BHT	@	°F	@	°F
Rmf @ BHT	@	°F	@	°F
Rmc @ BHT	@	°F	@	°F

Scale Changes

Type Log	Depth	Scale Up Hole	Scale Down
BRD	56	17000 - 22000	15000-19800

Equipment Data

Run No	Tool Type	Tool Position	Other

Logging Data

Log	Depths From	Depths To	Speed M/MIN	T.C. SEC	Norm. RATIO	Source	Source Number
BRD	171	6	2	1		83	C-1*

HOLE INCLINED AT 70 DEGREES TO HORIZONTAL

COMPANY DENISON COAL LTD.
BOREHOLE SD 7611
FIELD SAXON
COUNTY ___ STATE B.C.

MY 41485 R

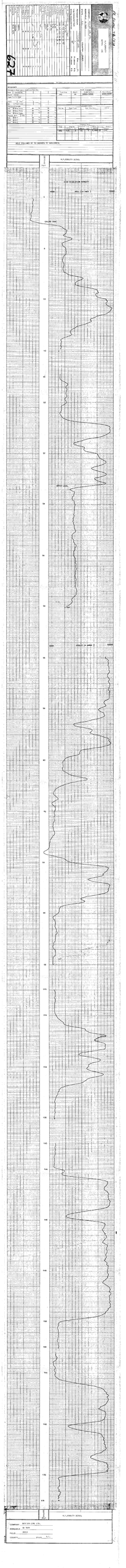
627

COMPANY	SUN OIL CO.		
WELL	Ivy Fitt		
FIELD	Jesse		
COUNTY	Ector	STATE	Tex.

GAMMA RAY DETAIL

627

COMPANY	BEST-ON LINE LTD.
BOREHOLE	DR 5695
FIELD	ARGO
COUNTY	STATE N.W.T.



627

GAMMA RAY
SPEC.
RESISTANCE

COMPANY DENISON COAL LTD.
BOREHOLE S. 3017
FIELD SASKA
COUNTY
STATE B.C.

Log Measured from: Ground Level
Drilling Measured from: Ground Level

Permanent Datum: Ground Level
Elevation: 0.0
Log Measured from: Ground Level
Drilling Measured from: Ground Level

Run No.	Date	Time	Depth Driller	Depth Logger	Bottom Log Interval	Top Log Interval	Casing Driller	Casing Logger	Bit Size
1	27-Jan-78		274	274					

Type Log	Run No.	Scale	Top Log Int.	Bottom Log Int.
Gamma Ray Spec.	1	1:200	0	274
Resistance	1	1:200	0	274

Equipment Data			
Equipment Type	Serial No.	Location	Calibration Date
Gamma Ray Spec.		Sask. Research	
Resistance		Sask. Research	

Equipment Data				
Type	Serial No.	Location	Calibration Date	Calibration Source
Gamma Ray Spec.		Sask. Research		
Resistance		Sask. Research		

Type Log	Run No.	Max. Rec. Temp.	Equipment Location	Recorded by	Witnessed by
Gamma Ray Spec.	1		Sask. Research		
Resistance	1		Sask. Research		

Type Log	Depth	Scale	Top Log Int.	Bottom Log Int.
Gamma Ray Spec.	274	6	0	274
Resistance	274	6	0	274

REMARKS:

Cement in Mud Sum or Additional Samples
Date Sample No.
Depth - Bottom
Cake Face in Hole

Type	Density	Viscosity	pH	Fluid Loss
Mud				

Depth of Sample

Res. @ Meas. Temp.	@	°C	Ω	°F
Res. @ Meas. Temp.	@	°C	Ω	°F
Res. @ Meas. Temp.	@	°C	Ω	°F
Source: Meas. Temp.				
Res. @ 24 C		@	Ω	°F
Res. @ 24 C		@	Ω	°F
Res. @ 24 C		@	Ω	°F

HOLE DRILLED AT 90 DEGREES TO HORIZONTAL

GAMMA RAY

RESISTANCE

GAMMA RAY

RESISTANCE

GROUND LEVEL

GROUND LEVEL

COMPANY DENISON COAL LTD.
BOREHOLE S. 3017
FIELD SASKA
COUNTY
STATE B.C.

Dec. Sheet 76 (8) A.

COMPANY DENISON COAL LTD.
STATE B.C.
B.H.-DENSITY DETAIL
DDH

Permanent Datum
Log Measured from
Drill Measured from

Elev.	Ft.	
Ft. Above	P.D.	
Ft. Below	P.D.	

COUNTY CANADA

Run No.	Date	Time	Depth Driller	Depth Logger	Bit Size	Casing Driller	Casing Logger	Top Log Interval	Bottom Log Interval	Type Fluid in Hole	Viscosity	Fluid Level	Max. Rec. Temp.	Equipment and Location
1	6 Sept 76		315	315	6 3/4			0	315	Clear Water				

Date 6 Sept 76
Source of Sample Drill Cuttings
Rm @ Meas. Temp. 0 °F
Rmf @ Meas. Temp. 0 °F
Rmc @ Meas. Temp. 0 °F
Source: Rmf Rmc
Rm @ BHT 0 °F
Rmf @ BHT 0 °F
Rmc @ BHT 0 °F

Recorded By 6 Sept 76 Witnessed By

REMARKS

Changes in Mud Type or Additional Samples
Date | Sample No. | Depth

Depth - Driller
Type Fluid in Hole

Date | Misc.
Gel. | Fluid Loss
Source of Sample

Rm @ Meas. Temp. 0 °F
Rmf @ Meas. Temp. 0 °F
Rmc @ Meas. Temp. 0 °F
Source: Rmf Rmc
Rm @ BHT 0 °F
Rmf @ BHT 0 °F
Rmc @ BHT 0 °F

Scale Changes

Type Log	Depth	Scale Up Hole	Scale Down

Equipment Data

Run No.	Tool Type	Tool Position	Other

Logging Data

Log	Depths		Speed	Time Const.	Gain	Volts
	Log	Log				
BHD	315	255	7	1	80	0.5+

HOLE DRILLED AT 90 DEGREES TO HORIZONTAL

B.H.-DENSITY DETAIL

DENSITY

B.H.-DENSITY DETAIL

HIGH RESOLUTION DENSITY DETAIL

1000 g/cc 1800

235
236
238
240
241
263
264
266
268
304
306
308
310
312
313

DENSITY

B.H.-DENSITY DETAIL

COMPANY DENISON COAL LTD.
BOREHOLE SD 7612
FIELD SAUN
COUNTY STATE B.C.

Re- Saxon 76 (3)A.

BPB

CALIPER , L.S.DENSITY LOG

COMPANY DENISON COAL LTD.
BOREHOLE SD 7613
STATE B.C. COUNTRY CANADA

Permanent Datum GROUND LEVEL Elev ____ Ft.
Log measured from " Ft.above P.D.
Drilling measured from " Ft.above P.D.

Run No.	1			
Date	7.10.76.			
Depth Scale	200:1			
First Reading	278			
Last Reading	0			
Interval Measured	278			
Casing BPB	8.4m			
Casing Driller	8.4m			
Depth Reached	280.7m			
Bottom Driller				
Mud Nature	WATER			
S.G. / Viscosity				
Bit Size 1	"H" to T.D.	to	to	to
Bit Size 2	to	to	to	to
Casing Size 1	4" to 8.4m	to	to	to
Casing Size 2	to	to	to	to
Casing Size 3	to	to	to	to
Rm @ Meas Temp	@	@	@	@
Rmf @ Meas Temp	@	@	@	@
Rmc @ Meas Temp	@	@	@	@
BHT				
Operating Time	5hrs.			
Truck No	V22/26			
Recorded By	MIKE SEAL			
Witness				

627

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REMARKS

Changes in Mud Type or Additional Samples			
Date / Sample No			
Depth — Driller			
Type Fluid in Hole			
Dens. / Visc.			
ph. / Fluid Loss			ml
Source of Sample			
Rm @ Meas Temp.	@ °F	@ °F	
Rmf @ Meas Temp.	@ °F	@ °F	
Rmc @ Meas Temp.	@ °F	@ °F	
Source: Rmf / Rmc			
Rm @ BHT	@ °F	@ °F	
Rmf @ BHT	@ °F	@ °F	
Rmc @ BHT	@ °F	@ °F	

Scale Changes

Type Log	Depth	Scale Up Hole	Scale Down

Equipment Data

Run No.	Tool Type	Tool Position	Other

Logging Data

Log	Depths From	Depths To	Speed M/MIN	T.C. SEC	Norm. RATIO	C.S.	Source Number
CALIPER	278	0	9	1/3		131	
LSD.	278	0	9	1/3	o.786	83	C-50

HOLE DRILLED AT 60 DEGREES TO HORIZONTAL

CALIPER	DEPTHS 200:1	L.S.DENSITY

CALIPER	DEPTHS 200:1	L.S.DENSITY

COMPANY DENISON COAL LTD.
BOREHOLE SD 7613
FIELD SAXON
COUNTY ____ STATE B.C.

MY 41485 R

Re Jason 76-6-26

COMPANY	DENISON COAL LTD.
BOREHOLE	50-3012
FIELD	JASON
COUNTY	CARBON
STATE	Alta.

GAMMA RAY DETAIL

LOG

Date	1-10-76
Time	1:00 PM
Logged by	Crew
Witnessed by	Crew
Drill Rig	Diamond Drill
Drill Operator	Crew
Drill Fluid	Air
Hole Diameter	5 3/4"
Casing Diameter	5 3/4"
Casing Depth	34'4"
Bit Type	Button
Bit Diameter	5 3/4"
Bit Depth	313'
Bit Wear	0
Core Diameter	5 3/4"
Core Length	279'
Core Recovery	100%
Hole Deviation	60°
Log Measured from	Ground
Drilling Measured from	Ground
Elevation	P.D.
Ft. Above	P.D.
Ft. Below	P.D.

Hole Name

REMARKS

Changes on Mast Type or Additional Samples

Date	Sample No.		
Depth - Drilled			
Total Fluid in Hole			

Date	Time		
Depth	Fluid Loss	ml	
Source of Sample			
Flow	@ Mass Temp	°F	°F
Rheol	@ Mass Temp	°F	°F
Rheol	@ Mass Temp	°F	°F
Source of Sample		Rheol	
Flow	@ Bit T	°F	°F
Rheol	@ Bit T	°F	°F
Rheol	@ Bit T	°F	°F

Scale Changes

Type Log	Depth	Scale Up Hole	Scale Down

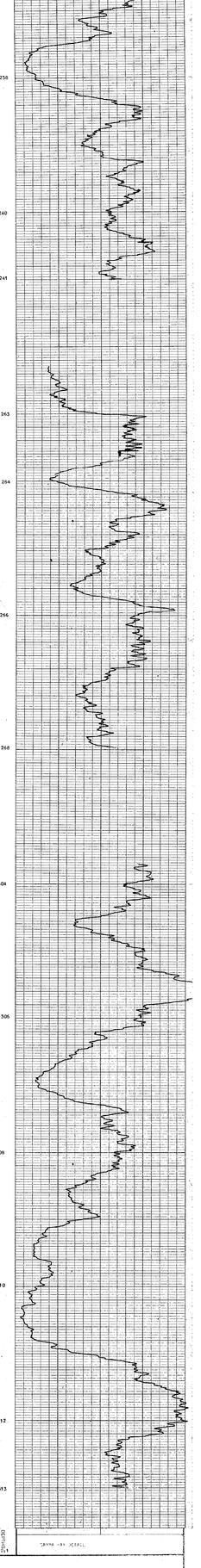
Equipment Data

Run No.	Tool Type	Tool Position	Other

Logging Data

Log	Depth Cover	Depth To	Speed	Sens.	Sens. Date	Sensitivity	Source Number
GAMMA	34'4"	235'	3	1		60'	

HOLE DRILLED AT 60 DEGREES TO HORIZONTAL



COMPANY DENISON COAL LTD.

BOREHOLE 50-3012

FIELD JASON

COUNTY STATE Alta.

Pe-Jackson 76 (8)A

BPB

HIGH RESOLUTION DENSITY DETAIL

LOG

COMPANY DENISON COAL LTD.

BOREHOLE SD 7612

STATE B.C. COUNTRY CANADA

Permanent Datum GROUND LEVEL Elev. ___ Ft.

Log measured from " " Ft. above P.D.

Drilling measured from " " Ft. above P.D.

Run No.	Depth Scale	4	20x1
Date		10,10,76	
Last Reading		313 288 2ft	
First Reading		308 293 295	
Interval Measured		9 5 6	
Logging Speed		6.2m	
Logging Driller		6.2m	
Depth Reached		315.7m	
Bottom Driller		317.6m	
Mud Nature		water	
S.G.	Viscosity		
Bit Size 1		"-" to 7.0m	to to
2		" to	to to
3		" to	to to
Casing Size 1		6" to 6.2m	to to
2		" to	to to
3		" to	to to
Rm @ Meas Temp.		@	@ @
Rmf @ Meas Temp.		@	@ @
Rmc @ Meas Temp.		@	@ @
Bit I			
Operating Time		49hrs.	
Truck No.		V22/26.	
Recorded By		RIAE SEAL	
Witness			

627

Sections

Date Started / Completed

Start Drill / Finish Drill

Total Log / Depth

Equipment Used: Truck / Pump / Other

Time: Start / Finish

Elapsed Time: Drilling / Logging / Other

Total Time

Logging Speed: 1st / 2nd / 3rd / Average

REMARKS

Changes in Mud Type or Additives (Including Quantities)

Source of Water

Date / Time / Depth

Run No. / Bit No. / Bit Size / Casing Size / Mud Wt. / Mud Viscosity / Meas. Temp. / Max. Temp. / Rm / Rmf / Rmc

Max. Temp. Rmf / Rmc

Max. Temp. Rm

Max. Temp. Bottom

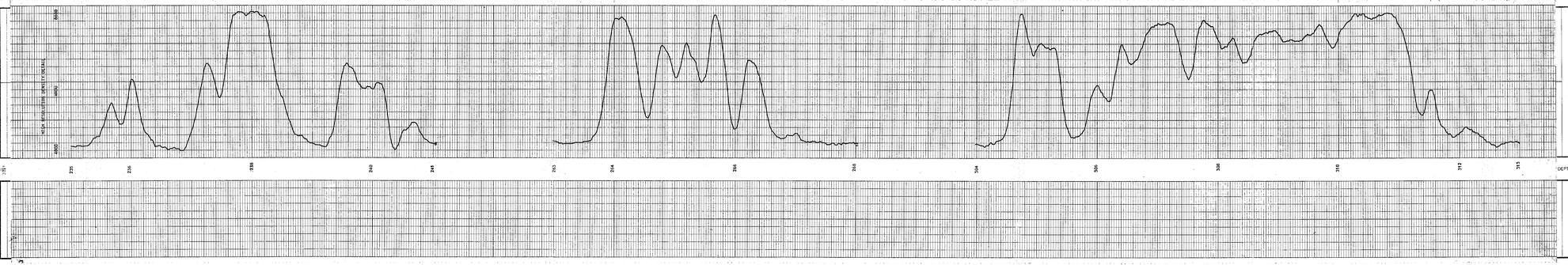
Max. Temp. Top

Max. Temp. Bottom

Max. Temp. Top

Max. Temp. Bottom

RULE SATISFIED BY NO DEVICES TO SATISFY.



COMPANY DENISON COAL LTD.

BOREHOLE SD 7612

FIELD MICA

COUNTY ___ STATE B.C.

Re. Sarah 78-6-8

COMPANY DENISON COAL LTD.
BOREHOLE 107843
STATE B.C. COUNTY CARIBOO

GAMMA RAY, RESISTANCE
LOG

Date Drilled 1978-6-8
Log Recorded 1978-6-8
Depth Driller 278
Depth Logged 278
Top Log Interval 0
Casing Driller Size at Shoe 5 1/2"
Casing Logged Size 5 1/2"
Bit Size 5 1/2"
Type Fluid in Hole AIR
Max. Rec. Temp. 0 °C
Estimated Cement Top
Time Since Circ.
Time Logged 24 Hrs.
Max. Rec. Temp. 0 °C
Equipment Location
Recorded By
Witnessed By

Run No.	Bit From	Bit To	Hole Size	Casing Size	Wgt.	Type Fluid	Density	Viscosity	Fluid Loss	Source	Resistivity	Temp.	Viscosity	Chlorides
1	0	278	5 1/2	5 1/2		AIR								

REMARKS

Changes in Mud Type or Additional Samples

Date	Sample No.	Depth

Scale Changes

Type Log	Depth	Scale/in Hole	Scale Down

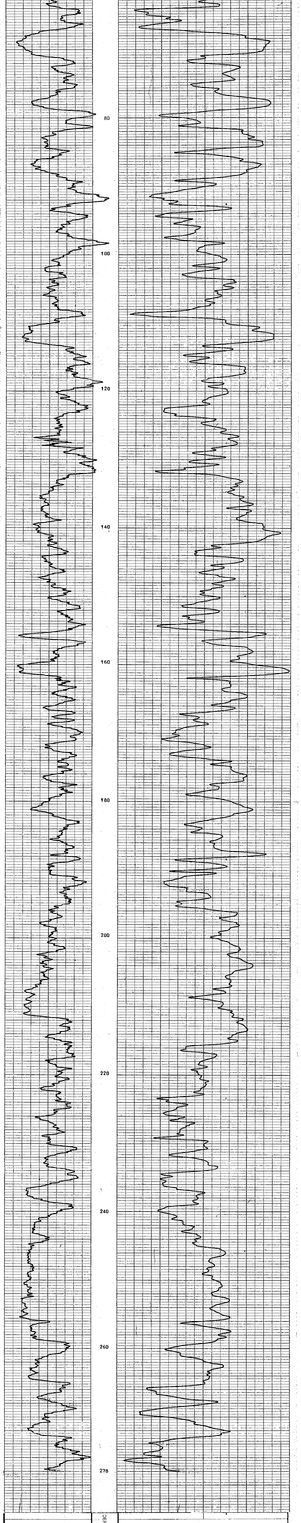
Equipment Data

Run No.	Tool Type	Tool Serial No.	Other

Logging Data

Log	Depth Logged	Speed	Time Const.	Gain	Source Voltage
REF	278	M.F.	1		
GAMMA	275	9	3	1	82

HOLE DRILLED AT 60 DEGREES TO HORIZONTAL



GAMMA RAY | DEPTH 20:1 | RESISTANCE

COMPANY DENISON COAL LTD.
BOREHOLE 107843
FIELD SARAH
COUNTY CARIBOO STATE B.C.

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Re- Saxon 76 (3)A.

CALIPER , L.S.DENSITY LOG

COMPANY DENISON COAL LTD.
BOREHOLE SD 7613
STATE B.C. COUNTRY CANADA

Permanent Datum	GROUND LEVEL Elev ___ Ft.
Log measured from	" Ft.above P.D.
Drilling measured from	" Ft.above P.D.

Run No.	1		
Date	7.10.76.		
Depth Scale	200:1		
First Reading	278		
Last Reading	0		
Interval Measured	278		
Casing BPB	8.4m		
Casing Driller	8.4m		
Depth Reached	280.7m		
Bottom Driller			
Mud Nature	WATER		
S.G. / Viscosity			
Bit Size 1	"H" to T.D.	to	to
2	to	to	to
3	to	to	to
Casing Size 1	4" to 8.4m	to	to
2	to	to	to
3	to	to	to
Rm @ Meas Temp	@	@	@
Rmf @ Meas Temp	@	@	@
Rmc @ Meas Temp	@	@	@
BHT			
Operating Time	5hrs.		
Truck No	V22/26		
Recorded By	MIKE SEAL		
Witness			

627

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REMARKS

Changes in Mud Type or Additional Samples			
Date / Sample No			
Depth — Driller			
Type Fluid in Hole			
Dens. / Visc.			
ph. / Fluid Loss		ml	
Source of Sample			
Rm @ Meas Temp.	@ °F	@ °F	
Rmf @ Meas Temp.	@ °F	@ °F	
Rmc @ Meas Temp.	@ °F	@ °F	
Source: Rmf / Rmc			
Rm @ BHT	@ °F	@ °F	
Rmf @ BHT	@ °F	@ °F	
Rmc @ BHT	@ °F	@ °F	

Scale Changes

Type Log	Depth	Scale Up Hole	Scale Down

Equipment Data

Run No.	Tool Type	Tool Position	Other

Logging Data

Log	Depths From	Depths To	Speed M/MIN	T.C. SEC	Norm. RATIO		Source Number
CALIPER	278	0	9	1/3		131	
LSD.	278	0	9	1/3	o.786	83	C-50

HOLE DRILLED AT 60 DEGREES TO HORIZONTAL

CALIPER	DEPTHS 200:1	L.S.DENSITY

CALIPER	DEPTHS 200:1	L.S.DENSITY

COMPANY DENISON COAL LTD.
BOREHOLE SD 7613
FIELD SAXON
COUNTY ______ STATE B.C.

MY 41485 R

2c - SAXON 76 C3 UA

COMPANY DENISON COAL LTD.
BOREHOLE SD 7613
STATE B.C. COUNTRY CANADA

H.N.DENSITY DETAIL
LOG

Permanent Datum	GROUND LEVEL	Elev.	Ft.
Log measured from	—	Ft. above	P.D.
Drilling measured from	—	Ft. above	P.D.

Run No.	One	Two	Three
Date	3-12-76	3-12-76	
Depth-Driller	190.157 m	190.157 m	
Depth-Logger	188.154.44	188.154.44	
Bottom Logged Interval	3.0	3.0	
Top Log Interval	0	0	
Casing-Driller	8.4m	8.4m	
Casing-Logger	8.4m	8.4m	
Bit Size	76.2mm	76.2mm	
Type Fluid in Hole	WATER		
Dens.			
Visc.			
pH			
Fluid Loss			
Source of Sample			
Rm @ Meas Temp.	@ °F	@ °F	
Rmf @ Meas Temp.	@ °F	@ °F	
Rmc @ Meas Temp.	@ °F	@ °F	
Source: Rmf / Rmc			
Rm @ BHT	@ °F	@ °F	
Rmf @ BHT	@ °F	@ °F	
Rmc @ BHT	@ °F	@ °F	
Max. Rec. Temp. °F	64	64	
Equipment No.	2041		
Location			
Recorded By	K.MACSEAL		
Witnessed By			

REMARKS

Changes in Mud Type or Additional Samples

Date	Sample No.			
Depth – Driller				
Type Fluid in Hole				
Dens.	Visc.			
pH	Fluid Loss		ml	
Source of Sample				
Rm @ Meas Temp.	@ °F		@ °F	
Rmf @ Meas Temp.	@ °F		@ °F	
Rmc @ Meas Temp.	@ °F		@ °F	
Source: Rmf Rmc				
Rm @ BHT	@ °F		@ °F	
Rmf @ BHT	@ °F		@ °F	
Rmc @ BHT	@ °F		@ °F	

Scale Changes

Type Log	Depth	Scale Up Hole	Scale Down

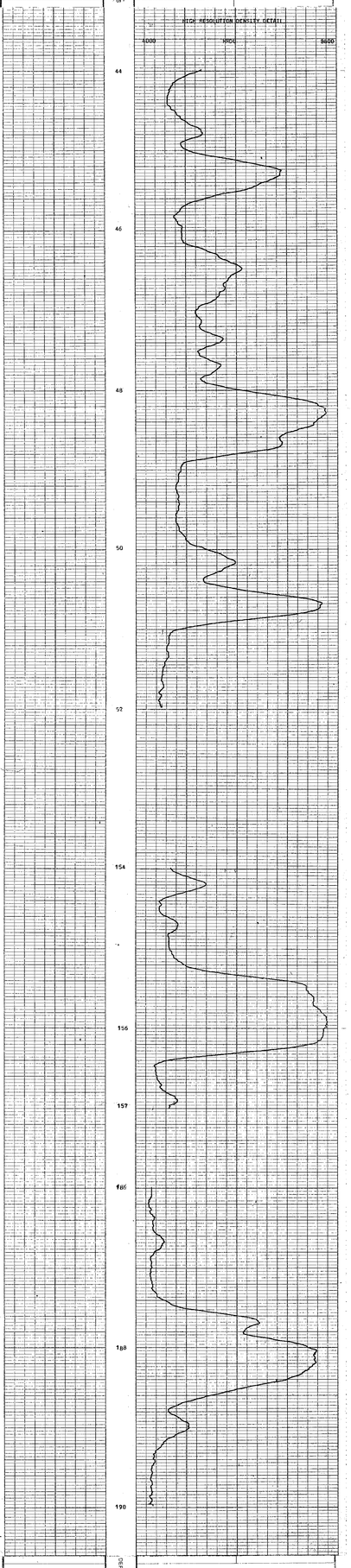
Equipment Data

Run No.	Tool Type	Tool Position	Other

Logging Data

Log	Depths Logged From	To	Speed M/MIN	T.C. SEC	Recorded Range	Sensitivity	Source Number
HRD	190	44	21	1	2000	85	C-2

HOLE DRILLED AT 60 DEGREES TO HORIZONTAL



COMPANY DENISON COAL LTD.
BOREHOLE SD 7613
FIELD SAXON
COUNTY STATE B.C.

627

RE - SAXON DEVELOP.

COMPANY DENISON COAL LTD.
BOREHOLE SD 7613
STATE B.C.
COUNTRY CANADA

B.P. DENSITY DETAIL LOG

Permanent Datum: GROUND LEVEL Elev. ---
Log measured from: --- Ft. above P.D.
Drilling measured from: --- Ft. above P.D.

Run No.	One	Two	Three
Date	1-11-79		
First Reading	190.0 ft		
Last Reading	188.134.44		
Log Speed	3 ft		
Density Scale	2.0		
Density Sensitivity	200.24		
Density Reading	2.0		
Bit Size	3"		
Casing Size	3"		
Casing Depth	6.4m		
Bit Type			
Max. Temp.	0 °C		
Max. Time	0 hrs		
Rec. Time	0 hrs		
Equipment No.	2277		
Truck No.	816-KEN		
Recorded By			
Witnessed By			

REMARKS

Changes in Mud Type or Additional Samples

Date	Sample No.	
Depth – Driller		
Type Fluid in Hole		

Doms Visc.
pH Fluid Loss ml
Source of Sample
Rm @ Meas Temp. @ °F @ °F
Rmf @ Meas Temp. @ °F @ °F
Rmc @ Meas Temp. @ °F @ °F
Source: Rmf Rmc
Rm @ BHT @ °F @ °F
Rmf @ BHT @ °F @ °F
Rmc @ BHT @ °F @ °F

Scale Changes

Type Log	Depth	Scale Up Hole	Scale Down

Equipment Data

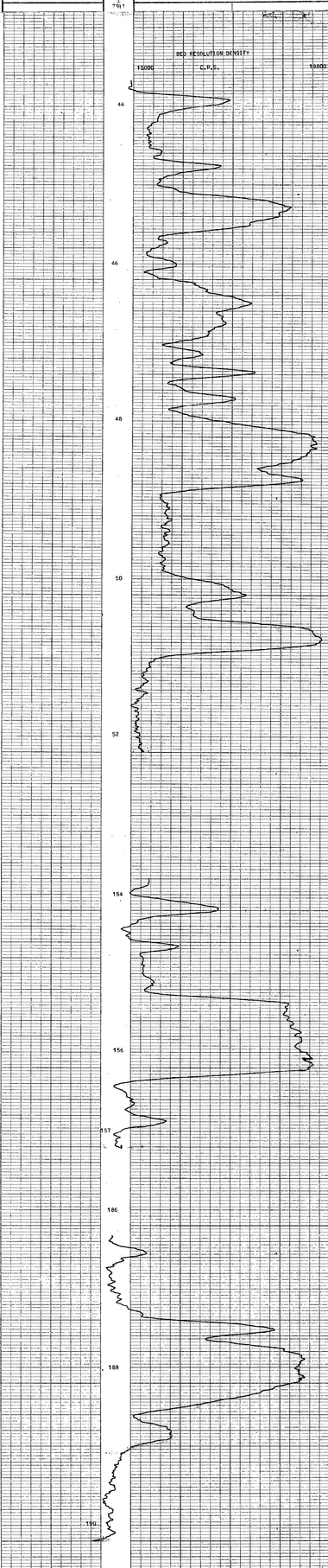
Run No.	Tool Type	Tool Position	Other

Logging Data

Log	Depths From	To	Speed FT/MIN	Time Const. SEC	Density RATIO	Source Strength
BRD	190	44	2	1	83	Cs137

HOLE DRILLED AT 60 DEGREES TO HORIZONTAL

B.P. DENSITY DETAIL LOG



B.P. DENSITY DETAIL

COMPANY DENISON COAL LTD.
BOREHOLE SD 7613
FIELD SAXON
COUNTY ____ STATE B.C.

627

Re: SAXON 76 (Sh)

COMPANY DENISON COAL LTD.
BOREHOLE SD 7613
STATE B.C. COUNTRY CANADA

GAMMA RAY DETAIL
LOG

Permanent Datum GROUND LEVEL Elev. Ft.
Log Measured from Ft. above P.D.
Drilling measured from Ft. above P.D.

Run No.	Date/Time	Depth Driller	Depth Logger	Bottom Log Interval	Top Log Interval	Casing Size	Casing Depth	Bit Size	Type Fluid in Hole	Viscosity	Density	Max. Recorded Temp.	Equipment No.	Location
1	3-13-76	44	44	44	0	8-5/8	3	8	WATER				2207	
2	3-13-76	190	190	190	0	8-5/8	3	8	WATER				2207	

Run No.	Run	Rec.	Max. Rec. Temp.	Est. Cement Top	Time Since Circ.	Time Logger on Bottom	Equipment No.	Location
1	8"	8-5/8"		0	0	0	2207	
2				0	0	0	2207	

Witnessed By MR. SEAL

627

REMARKS

Changes in Mud Type or Additional Samples
Date | Sample No. | Depth - Driller | Type Fluid in Hole

Density | Visc.
pH | Fluid Loss | ml

Source of Sample

Rm	@ Meas. Temp.	@	°F	@	°F
Rmf	@ Meas. Temp.	@	°F	@	°F
Rmc	@ Meas. Temp.	@	°F	@	°F
Source: Rmf	Rmc				
Rm	@ BHT	@	°F	@	°F
Rmf	@ BHT	@	°F	@	°F
Rmc	@ BHT	@	°F	@	°F

Scale Changes

Type Log	Depth	Scale Up Hole	Scale Down

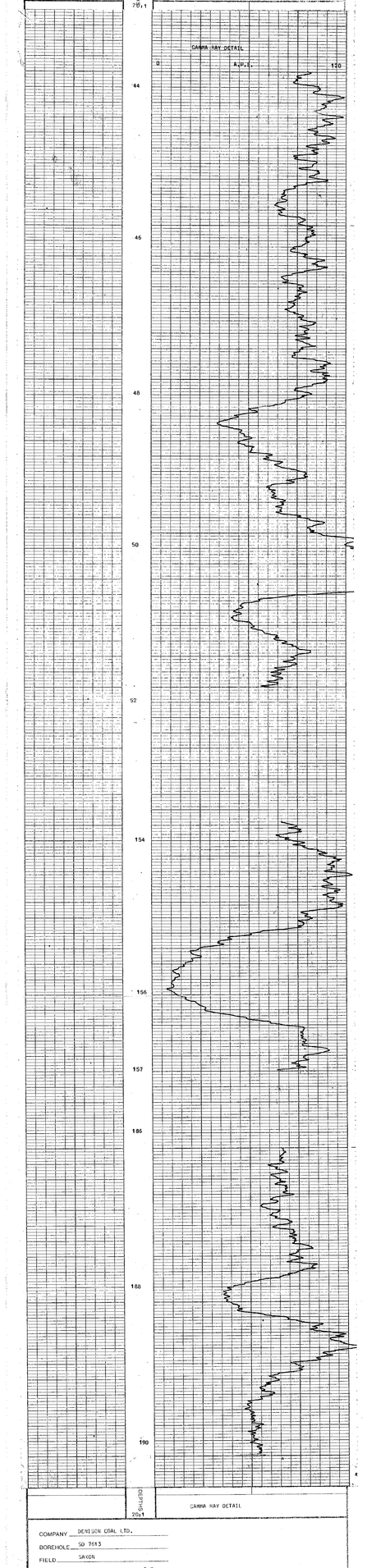
Equipment Data

Run No.	Tool Type	Tool Position	Other

Logging Data

Log	Depth From	Depth To	Speed F/MIN	Time Const. SEC	Max. Recorded RATIO	Line Speed Number
GAMMA	190	44	3	1	62	

HOLE DRILLED AT 60 DEGREES TO HORIZONTAL



COMPANY DENISON COAL LTD.
BOREHOLE SD 7613
FIELD SAXON
COUNTY _____ STATE B.C.

627

COMPANY: SENESCO COAL LTD.
WELL: D.D. 2010
FIELD: SAVON
COUNTY: Clare
STATE: N.S.
Elev. P.D. 0 ft. Above
Elev. G.L. 0 ft.
Permanent Datum: Ground Level
Log Measured From: Ground Level
Drilling Measured From: Ground Level
Date: 1-11-90
Run No. One
Depth-Driller: 232 ft.
Depth-Logger: 232 ft.
Bottom Log Interval: 232 ft.
Top Log Interval: 0 ft.
Casing-Driller: 0 ft. @ 0 ft.
Casing-Logger: 0 ft.
Bit Size: 3 7/8 in.
Type Fluid in Hole: Water
Dens.: Visc.:
pH: | Fluid Loss: ml
Source of Sample:
Rm @ Meas. Temp.: @ °F | @ °F
Rmf @ Meas. Temp.: @ °F | @ °F
Rmc @ Meas. Temp.: @ °F | @ °F
Source: Rmf | Rmc: | |
Rm @ BHT: @ °F | @ °F
Rmf @ BHT: @ °F | @ °F
Rmc @ BHT: @ °F | @ °F
Max. Rec. Temp.: 54 °F
Equipment: 5-7-8
Recorded By: D. Gillis
Witnessed By: Mr. Gillis

Equipment Data

Run No.	Tool Type	Serial Number	Other

Logging Data

Tool	Depth Interval	Speed	Time Constant	Gain	Sensitivity
GAMMA	232 - 0	30	2/10	54	54
RES.	232 - 0	M.S.S.	3.2		

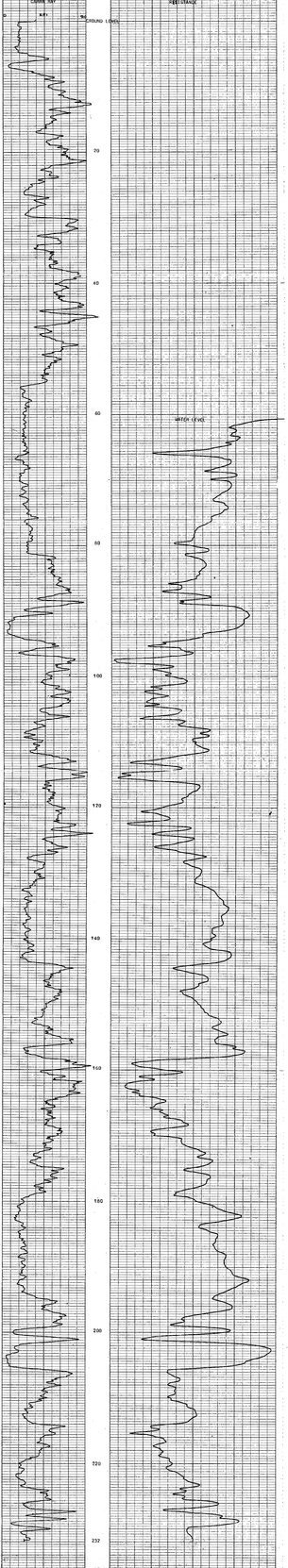
REMARKS:
Changes in Mud Type or Additional Contacts:
Date: | Sample No.: | Depth: | Type Fluid: | Reason:
Depth - Driller:
Type Fluid in Hole:
Dens.: Visc.:
pH: | Fluid Loss: ml
Source of Sample:
Rm @ Meas. Temp.: @ °F | @ °F
Rmf @ Meas. Temp.: @ °F | @ °F
Rmc @ Meas. Temp.: @ °F | @ °F
Source: Rmf | Rmc: | |
Rm @ BHT: @ °F | @ °F
Rmf @ BHT: @ °F | @ °F
Rmc @ BHT: @ °F | @ °F
Time:

Scale Changes

Type Log	Depth	Scale/Div.	Scale/Div.

HOLE INCLINED AT 90 DEGREES TO HORIZONTAL

GAMMA RAY | 232 - 0 | RESISTANCE



GAMMA RAY | 232 - 0 | RESISTANCE

COMPANY SENESCO COAL LTD.
BOREHOLE D.D. 2010
FIELD SAVON
COUNTY Clare STATE N.S.

PR - SAXON 76 (3)4.

BPB

GAMMA RAY DETAIL
LOG

COMPANY DENISON COAL LTD.
BOREHOLE SD 7610
STATE B.C. COUNTRY CANADA

Permanent Datum GROUND LEVEL Elev ____ Ft.
Log measured from " Ft. above P.D.
Drilling measured from " Ft. above P.D.

Run No.	1			
Depth Scale	20:1			
Date	30.9.76.			
First Reading	231 207 159 98			
Last Reading	224 198 153 86			
Interval Measured	7 9 6 12			
Casing BPB	8.3m			
Casing Driller	8.3m			
Depth Reached	234.5m			
Bottom Driller	234.7m			
Mud Nature	WATER			
S.G. / Viscosity				
Bit Size 1	"H" to T.D.	to	to	
2	to	to	to	
3	to	to	to	
Casing Size 1	4" to T.D.	to	to	
2	to	to	to	
Rm @ Meas Temp.	@	@	@	
Rmf @ Meas Temp.	@	@	@	
Rmc @ Meas Temp.	@	@	@	
BHT				
Operating Time	5hrs.			
Truck No.	V22/26			
Recorded By	MIKE SEAL			
Witness				

627

REMARKS

Changes in Mud Type or Additional Samples				
Date	Sample No.			
Depth — Driller				
Type Fluid in Hole				
Dens.	Visc.			
ph.	Fluid Loss	ml		
Source of Sample				
Rm @ Meas Temp.		@ °F	@ °F	
Rmf @ Meas Temp.		@ °F	@ °F	
Rmc @ Meas Temp.		@ °F	@ °F	
Source: Rmf	Rmc			
Rm @ BHT		@ °F	@ °F	
Rmf @ BHT		@ °F	@ °F	
Rmc @ BHT		@ °F	@ °F	

Scale Changes

Type Log	Depth	Scale Up Hole	Scale Down

Equipment Data

Run No.	Tool Type	Tool Position	Other

Logging Data

Log	Depths From	Depths To	Speed M/MIN	T.C. SEC	Norm RATIO	Sens.	Source Number
GAMMA	231	86	3	1		82	

HOLE DRILLED AT 70 DEGREES TO HORIZONTAL

DEPTHS 20:1 GAMMA RAY DETAIL

DEPTHS 20:1 GAMMA RAY DETAIL

COMPANY DENISON COAL LTD.
BOREHOLE SD 7610
FIELD SAXON
COUNTY ____ STATE B.C.

MY 41485 R

Bill Brown 16 field

COMPANY	DENSON COAL LTD.
BORE-HOLE NO.	90 7060
FIELD	SASKIN
COUNTY	STATE B.C.

CALIPER + L.L.DENSITY
LOG

Date	27-Jan-90
Run No.	1
Depth Driller	232.0
Depth Logger	232.0
Bottom Log Interval	232.0
Top Log Interval	0.0
Casing Driller	0.0
Casing Logger	0.0
Bit Size	0.0
Type Fluid in Hole	WATER
Dens. / Visc.	1.00 / 1.0
PH / Fluid Loss	7.0 / 0.0
Source of Sample	
Rm @ Meas. Temp.	0 @ 0
Rmf @ Meas. Temp.	0 @ 0
Rmc @ Meas. Temp.	0 @ 0
Source: Rmf / Rmc	/
Rm @ BHT	0 @ 0
Rmf @ BHT	0 @ 0
Rmc @ BHT	0 @ 0
Circulation Stopped	0:00
Logging Started	0:00
Logging Finished	0:00
Equipment Number	5911
Location	PRINCE GEORGE
Recorded By	D.G.
Witnessed By	

Log Measured From: Ground Level
Drilling Measured From: Ground Level
Elevation: Permanent Datum
Elevations: K.B. 0.0 m, D.F. 0.0 m, G.L. 0.0 m

627

REMARKS

Samples or Mud Type or Additional Samples:
Core: 0 Mud Type:
Cuttings: 0 Other:
Type Fluid in Hole:

Density: Viscosity:
pH: Fluid Loss: ml
Source of Sample:
Rm: @ Meas. Temp.: @ °F
Rmf: @ Meas. Temp.: @ °F
Rmc: @ Meas. Temp.: @ °F
Source: Rmf / Rmc:
Rm: @ BHT: @ °F
Rmf: @ BHT: @ °F
Rmc: @ BHT: @ °F

Type Log	Depth	Scale Up Hour	Scale Down
LSD	57	2000-27000	1100x1200

Scale Changes

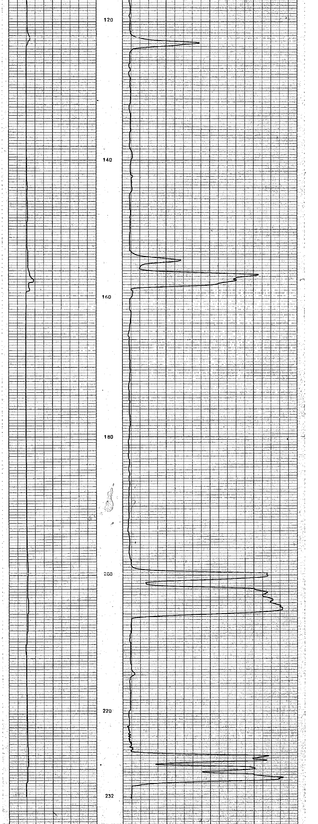
Equipment Data

Rec No	Equip Type	Equip. Position	Other

Missing Data

Log	Depths From	To	Interval	Curve Name	Reason
CALIPER	232	0	232	CALI	151
LSD	232	0	232	VDL	<56

HOLE INCLINED AT 70 DEGREES TO HORIZONTAL



CALIPER | L.L.DENSITY

COMPANY DENSON COAL LTD.
BOREHOLE 90 7060
FIELD SASKIN
COUNTY STATE B.C.

H.R. DENSITY DETAIL LOG

COMPANY DENISON COAL LTD.
SD 7610
B.C. COUNTRY CANADA
GROUND LEVEL Elev ___ Ft.

REMARKS

Changes in Mud Type or Additional Samples

Log	Depths From	Depths To	Speed M/MIN	T.C SEC	Norm. RATIO	Scale No.	Source Number
HRD	231	86	2½	1	0,599	83	C-2

HOLE DRILLED AT 70 DEGREES TO HORIZONTAL

H.R.DENSITY DETAIL

H.R.DENSITY DETAIL

COMPANY DENISON COAL LTD.

BOREHOLE SD 7610

FIELD SAXON

COUNTY ______ STATE B.C.

MY 41485 R

COMPANY	DENSION CORP.
WELL	50 THIRD
FIELD	SKUDA
COUNTY	STATE N.J.

COMPANY	DENSION CORP.
WELL	50 THIRD
FIELD	SKUDA
COUNTY	STATE N.J.

Permanent datum: Elev. ft.
Log measured from: Elev. ft.
Drilling measured from: Elev. ft.

RUN NO.	ONE
DATE	10-2-74
TYPE LOG	FL-DENSITY-DETAIL
DEPTH-DRILLER	1000
DEPTH-LOGGER	1000
BTM. LOG INTERVAL	1000
TOP LOG INTERVAL	0
CASING-DRILLER	0
CASING-LOGGER	0
BIT SIZE	7 7/8
TYPE FLUID IN HOLE	WATER
DENS.	1
VISC.	1
PH	7
FLUID LEVEL	FULL
MAX. REC. TEMP.	0
EQUIPMENT NO.	1
LOCATION	1
RECORDED BY	D. CARTER
WITNESSED BY	MR. BRAUER

Density Source	Cs137	Mn54	Co60
Source Strength	10 mc	5 mc	5 mc
Serial No.	1	1	1
Detector Type	SC	SC	SC
Detector Serial No.	1	1	1
Window	0.4	0.4	0.4
Shielding	Pb	Pb	Pb

Density Source	Cs137	Mn54	Co60
Source Strength	10 mc	5 mc	5 mc
Serial No.	1	1	1
Detector Type	SC	SC	SC
Detector Serial No.	1	1	1
Window	0.4	0.4	0.4
Shielding	Pb	Pb	Pb

Density Source	Cs137	Mn54	Co60
Source Strength	10 mc	5 mc	5 mc
Serial No.	1	1	1
Detector Type	SC	SC	SC
Detector Serial No.	1	1	1
Window	0.4	0.4	0.4
Shielding	Pb	Pb	Pb

REMARKS

Changed to Black Ryan in Radioactive Samples.
Run 1 Sensitivity 1
Run 2 Sensitivity 2

Type Fluid in Hole

Density	1		
PH	7	Fluid Level	
Viscosity	1		

Max. Rec. Temp. 0

Run 1	@ Bottom Temp.	0	°F
Run2	@ Bottom Temp.	0	°F
Run	@ Bottom Temp.	0	°F
Equipment Location			
Run	@ 0	°F	°F
Run	@ 0	°F	°F
Run	@ 0	°F	°F

Scale Changes

Run No.	Time	Scale Up Time	Scale Down Time

Equipment Data

Run No.	Type Tool	Serial No.	Position

Calibration

Date	Density Source	Density Source	Density Source	Density Source	Density Source	Density Source
2-10-74	20	0	0	0	0	20

Calibration Data

Date	Density Source	Density Source	Density Source	Density Source	Density Source	Density Source
2-10-74	20	0	0	0	0	20

WELL SPECIFIED BY 50 DEGREES FE HORIZONTAL

FL-DENSITY-DETAIL

Ez. Saxon. 2(5)2.

CALIBER L.S.,DENSITY
LOG

COMPANY DENISON COAL LTD.
BOREHOLE SD 7609
STATE B.C.
COUNTY SAXON
CANADA

Date	9/5/76		
Run No.	One		
Depth Driller	188m		
Depth Logger			
Bottom Logged Interval	188m		
Top Log Interval	Surface		
Drilling Measured from			
Log measured from			
	Ft. above	Ft. below	
	P.D.	P.D.	

Type Log	Depth	Scale Up Hole	Scale Down

Scale Changes

Equipment Data

Run No.	Tool Type	Tool Position	Other

Logging Data

Log	Depths From	To	Speed F/MIN	T.C. SECS	Bench Scale MV/IN	Source Number
CAL	188	0	4	1/3	.5V	
LSD	188	0	3	1/3	.78V	85	4.50

REMARKS:

Changes in Mud Type or Additional Samples

Date	Sample No.

Depth + Order

Type Fluid in Hole

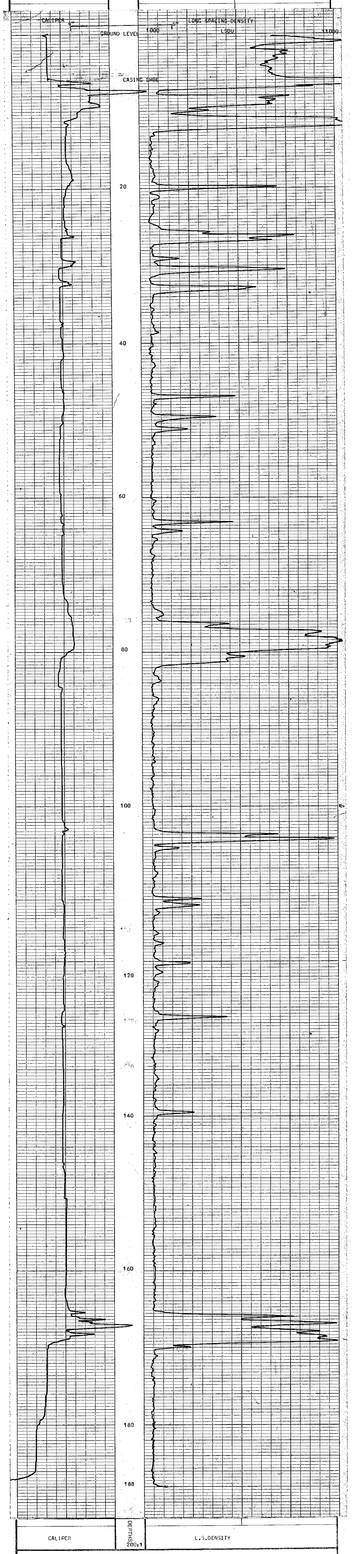
Density

pH Fluid Loss

Source of Sample

Bot	@ Meas Temp.	@ °F	@ °F
Rmf	@ Meas Temp.	@ °F	@ °F
Rmc	@ Meas Temp.	@ °F	@ °F
Source Rmf	Rmc		
Rm	@ Bht	@ °F	@ °F
Rmf	@ Bht	@ °F	@ °F
Rmc	@ Bht	@ °F	@ °F

HOLE DRILLED AT 60 DEGREES TO HORIZONTAL



CALIPER	L.S.,DENSITY

DEPTH 200:1

COMPANY DENISON COAL LTD.
BOREHOLE SD 7609
FIELD SAXON
COUNTY _____ STATE B.C.

627

COMPANY DENLTON CORL LTD.
WELL 30 TRUDE
FIELD SAVAN
COUNTY OR PARISH CANADA
STATE Alta.
Date Logged 1-Dec-1981
Depth Logged 1-Dec-1981
Run Number 1
Depth Driller 1-Dec-1981
Depth Logger 1-Dec-1981
Bottom Log Interval 1-Dec-1981
Top Log Interval 1-Dec-1981
Drilling Fluid Type Water
Source of Sample Flowline
Rm @ Measured Temp. 1.0 @ 24 C
Rmf @ Measured Temp. 0.8 @ 24 C
Rmc @ Measured Temp. 0.8 @ 24 C
Rm @ BHT 0.4 @ 24 C
Max Rec. Temp. 24 C
Equipment Number 3
Location 12-35-36-27 W4
Recorded By D. Lee
Witnessed By Mr. Hoff

DENSILOG DENSITY

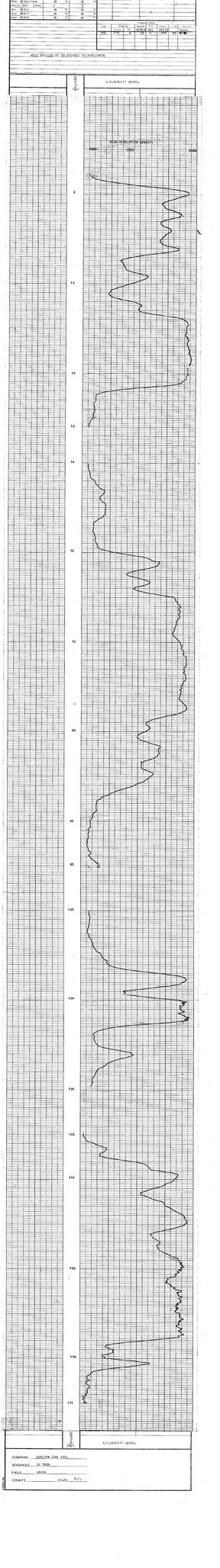
REMARKS
Changes in Hole Size or Additional Symbols
Date 2 Symbols No.
Tool Position Left
Tool Pad at Hole
Open 1 Over
Air 1 Fresh Water
Gas 1 Salt Water
Mud 1 Lime
Mud Type Gel Chem
Mud Density 9.6 lb/gal
Viscosity 40 sec
Fluid Loss 5.0 ml
Resistivity 1.0 @ 24 C
Rm 0.4 @ 24 C
Rmf 0.8 @ 24 C
Rmc 0.8 @ 24 C
Max Rec. Temp. 24 C
Equipment Number 3
Location 12-35-36-27 W4
Recorded By D. Lee
Witnessed By Mr. Hoff

Run 1 Log Type DENSILOG DENSITY

Casing Size	Weight	Grade	Thread	Depth Driller	Depth Logger
7	23	J	8 Rnd	1011	1011

Bit Size	From	To
6 1/4	1011	1174

HOLE DRILLED AT 50 DEGREES TO HORIZONTAL



Re- SAXON 26 (3) A.

CALIPER , B.R.DENSITY DETAIL LOG

COMPANY: DENISON COAL LTD.
BOREHOLE: SD 7609
STATE: B.C. COUNTRY: CANADA

Permanent Datum: GROUND LEVEL Elev ____ Ft.
Log measured from: " Ft. above P.D.
Drilling measured from: " Ft. above P.D.

Run No. / Depth Scale	1 / 20:1		
Date	9.10.76.		
First Reading	172 126 103 13		
Last Reading	155 122 94 8		
Interval Measured	7 4 7 5		
Casing BPB	5.8m		
Casing Driller	5.8m		
Depth Reached	169.3m		
Bottom Driller			
Mud Nature	WATER		
S.G. / Viscosity			
Bit Size 1	"H" to T.D.	to	to
2	to	to	to
3	to	to	to
Casing Size 1	4" to 5.8m	to	to
2	to	to	to
Rm @ Meas Temp.	@	@	@
Rmf @ Meas Temp.	@	@	@
Rmc @ Meas Temp.	@	@	@
BHT			
Operating Time	5hrs.		
Truck No.	V22/26		
Recorded By	MIKE SEAL		
Witness			

627

fold here

REMARKS

Changes in Mud Type or Additional Samples				
Date / Sample No.				
Depth — Driller				
Type Fluid in Hole				
Dens. / Visc.				
ph. / Fluid Loss		ml		
Source of Sample				
Rm @ Meas Temp.	@	°F	@	°F
Rmf @ Meas Temp.	@	°F	@	°F
Rmc @ Meas Temp.	@	°F	@	°F
Source: Rmf / Rmc				
Rm @ BHT	@	°F	@	°F
Rmf @ BHT	@	°F	@	°F
Rmc @ BHT	@	°F	@	°F

Scale Changes

Type Log	Depth	Scale Up Hole	Scale Down

Equipment Data

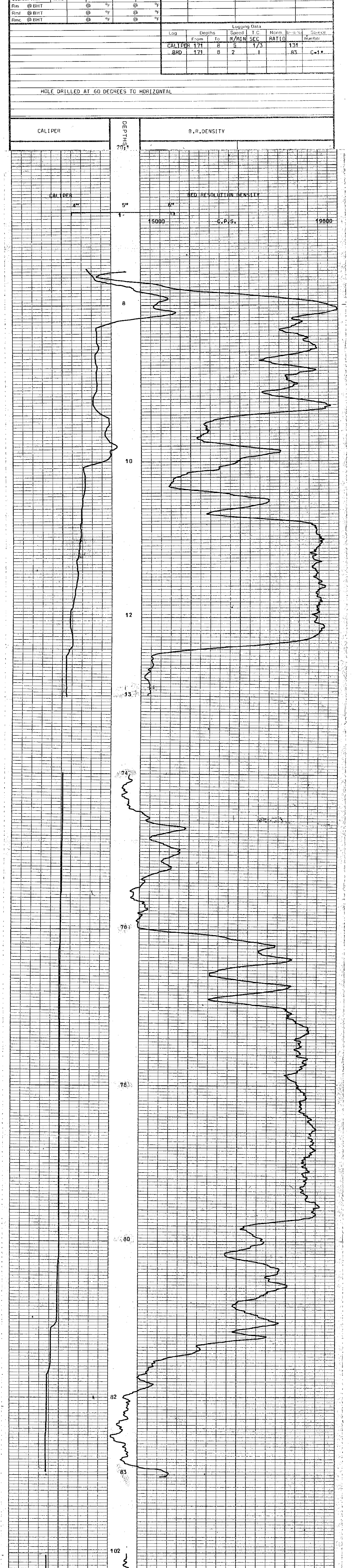
Run No.	Tool Type	Tool Position	Other

Logging Data

Log	Depths From	Depths To	Speed M/MIN	T.C. SEC	Norm. RATIO	Sample No.	Source Number
CALIPER	171	8	5	1/3		131	
BRD	171	8	2	1		83	C+1*

HOLE DRILLED AT 60 DEGREES TO HORIZONTAL

CALIPER	DEPTHS 20:1	B.R.DENSITY



CALIPER	DEPTHS 20:1	B.R.DENSITY DETAIL

COMPANY: DENISON COAL LTD.
BOREHOLE: SD 7609
FIELD: SAXON
COUNTY: ____ STATE: B.C.

MY 41485 R

BC - SAXON 76 (3)(a)

7077

627

GAMMA RAY, RESISTANCE LOG

COMPANY DENISON COAL LTD.
BOREHOLE SD 7609
STATE B.C. COUNTRY CANADA

Permanent Datum GROUND LEVEL Elev ___ Ft.
Log measured from " Ft. above P.D.
Drilling measured from " Ft. above P.D.

Run No.	1		
Depth Scale	200:1		
Date	9.10.76.		
First Reading	188		
Last Reading	0		
Interval Measured	188		
Casing BPB	5.8m		
Casing Driller	5.8m		
Depth Reached	189.3m		
Bottom Driller			
Mud Nature	WATER		
S.G. / Viscosity			
Bit Size 1	"H" to T.D.	to	to
2	to	to	to
3	to	to	to
Casing Size 1	4" to 5.8m	to	to
2	to	to	to
Rm @ Meas Temp.	@	@	@
Rmf @ Meas Temp.	@	@	@
Rmc @ Meas Temp.	@	@	@
BHT			
Operating Time	5hrs.		
Truck No.	V22/26		
Recorded By	MIKE SEAL		
Witness			

fold here

REMARKS

Changes in Mud Type or Additional Samples

Date	Sample No.			
Depth — Driller				
Type Fluid in Hole				
Dens.	Visc.			
ph.	Fluid Loss	ml		
Source of Sample				
Rm @ Meas Temp.	@ °F	@ °F		
Rmf @ Meas Temp.	@ °F	@ °F		
Rmc @ Meas Temp.	@ °F	@ °F		
Source: Rmf	Rmc			
Rm @ BHT	@ °F	@ °F		
Rmf @ BHT	@ °F	@ °F		
Rmc @ BHT	@ °F	@ °F		

Scale Changes

Type Log	Depth	Scale Up Hole	Scale Down

Equipment Data

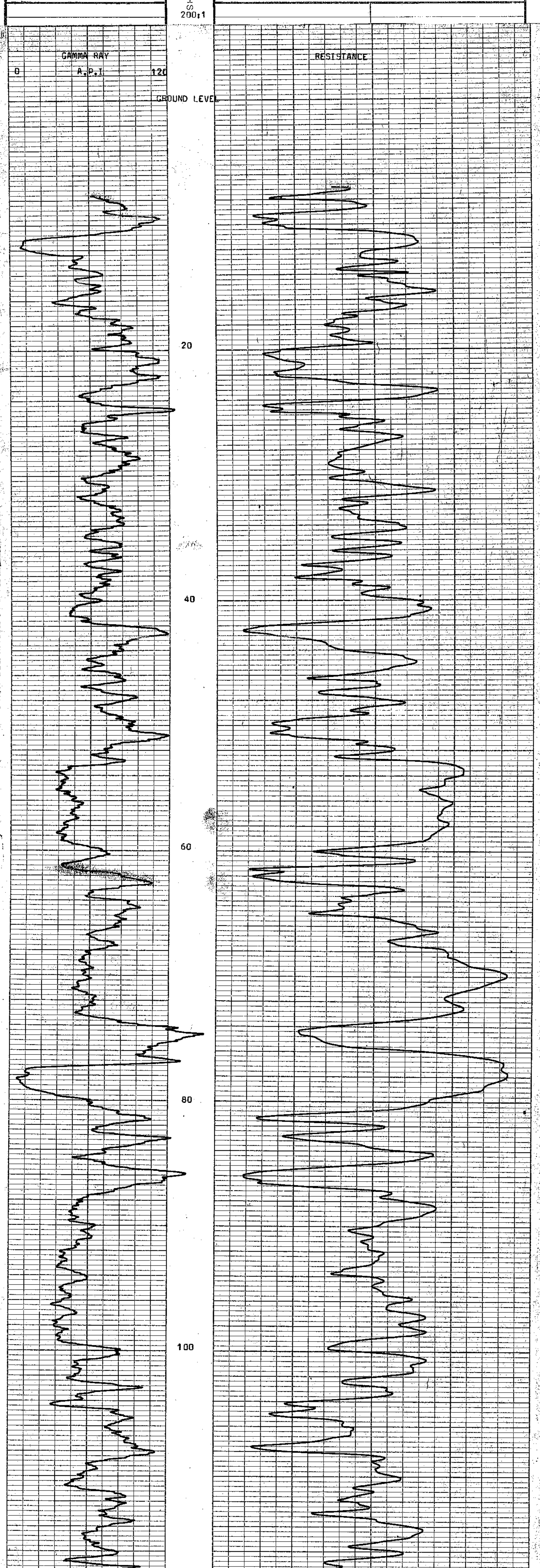
Run No.	Tool Type	Tool Position	Other

Logging Data

Log	Depths From	Depths To	Speed M/MIN	T.C. SEC	Norm RATIO		Source Number
GAMMA	188	C.S.	9	1		82	
RES	188	C.S.	15				

HOLE DRILLED AT 60 DEGREES TO HORIZONTAL

GAMMA RAY	DEPTHS 200:1	RESISTANCE



GAMMA RAY	DEPTHS 200:1	RESISTANCE

COMPANY DENISON COAL LTD.
BOREHOLE SD 7609
FIELD SAXON
COUNTY ___ STATE B.C.

GAMMA RAY-L.L.DENSITY
LOG

COMPANY: DENSON COAL LTD.
BOREHOLE: 3D 7608
FIELD: SAKZE
COUNTY: _____ STATE: B.C.

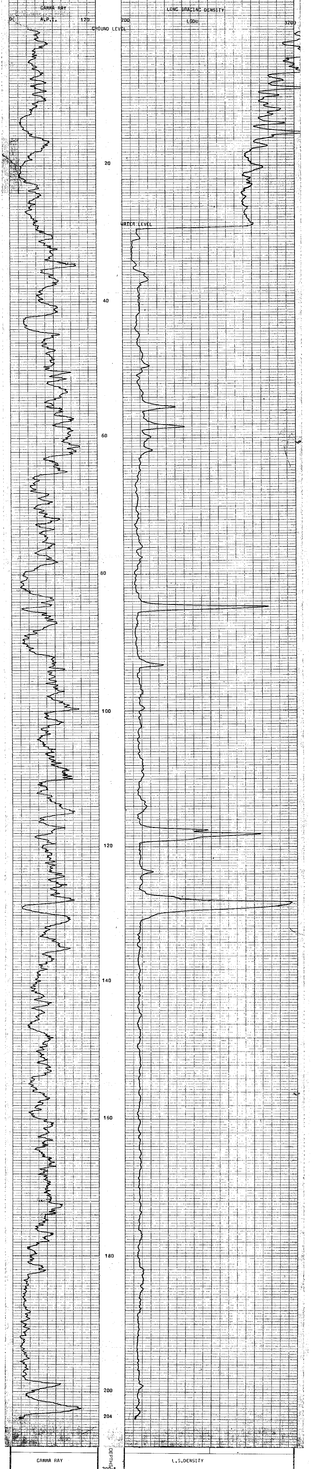
Date	Time	Depth Driller	Depth Logger	Bottom Logged Interval	Top Logged Interval	Kind of Fluid in Hole	Density	Viscosity	Max. Rec. Temp.	Equipment Location
26.5.79.		204	204	204	0	WATER				

Type Log: 1 | Depth: 204 | Scale Up Hole: | Scale Down: 20

Run No.: 1 | Tool Type: LONG SPACING DENSITY | Tool Position: | Other:

Log	Depth	Speed M/Min	Time Const. SEC	Sensitivity RATIO	Scale Factor	Scale Factor
GAMMA	204	9	1		50	
LSD	204	9	1/3	0.786	83	0.50

HOLE LOGGED THROUGH 7" RIGS INCLINED AT 70 DEGREES TO HORIZONTAL



GAMMA RAY | L.L.DENSITY

COMPANY: DENSON COAL LTD.
BOREHOLE: 3D 7608
FIELD: SAKZE
COUNTY: _____ STATE: B.C.

PE- SAXON 76 (8)A.

BPB

GAMMA RAY DETAIL LOG

COMPANY DENISON COAL LTD.
BOREHOLE 507608
STATE B.C. COUNTRY CANADA

Permanent Datum GROUND LEVEL Elev. Ft.
Log measured from " Ft. above P.D.
Drilling measured from " Ft. above P.D.

Run No.	Depth Scale	1	20:1	
Date		26.3.76.		
First Reading		132 120 86		
Last Reading		126 114 83		
Interval Measured		6 4 3		
Casing Bit				
Casing Driller				
Depth Reached		206.0		
Bottom Driller		206.3		
Mud Nature		WATER		
S.G.	Viscosity			
Bit Size 1		"H" TYPE	to	to
2		to	to	to
3		to	to	to
Casing Size 1		to	to	to
2		to	to	to
Rm @ Meas Temp		@	@	@
Rmf @ Meas Temp		@	@	@
Rmc @ Meas Temp		@	@	@
BHT				
Operating Time		3hrs.		
Truck No.		V22/26		
Recorded By		RIKE SEAL		
Witness				

627

Equipment

Equipment Data

Log	Detector	Source	Serial No.
GAMMA	1.75"	3.5	1.5

Scale Changes

Run	Depth	Scale/Inches

Equipment Data

Run No.	Tool Type	Tool Serial No.

Check

Run	Depth	Scale

Calibration Data

Log	Depth	Scale/Inches
GAMMA	1.75"	3.5

REMARKS

Check Shot Data and Additional Surveys

Check Shot	Depth	Time

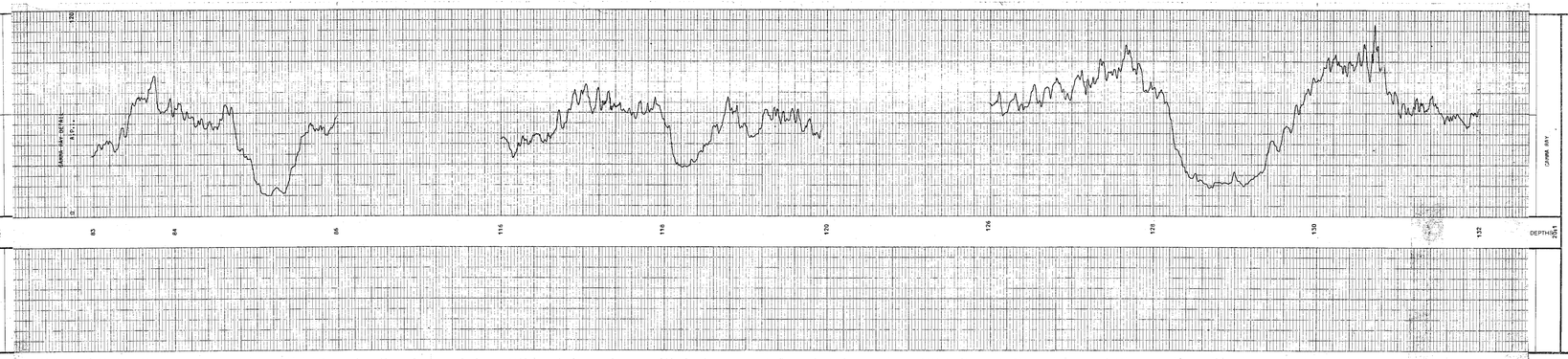
Time Pred. in Hours

Date	Time	Value

Gamma Field Calib.

Rm @ Meas. Temp	@	@
Rmf @ Meas. Temp	@	@
Rmc @ Meas. Temp	@	@
Gain		
Time Const.		
Gain @ 8011		
Time Const. @ 8011		

SCALE LOGGED IN METRES "M" BOREHOLE INCLINED AT 76 DEGREES TO HORIZONTAL



COMPANY DENISON COAL LTD.
BOREHOLE 50 7608
FIELD SAXON
COUNTY STATE B.C.

INT 41623 B

PR - SAXON 76(3)A

NEUTRON-NEUTRON LOG

COMPANY	DENISON COAL LTD.
BOREHOLE	SD 7608
STATE	B.C.
COUNTRY	CANADA
Permanent Datum	GROUND LEVEL
Elev.	Ft.
Log measured from	"
Ft. above	P.D.
Drilling measured from	"
Ft. above	P.D.

Run No.	1		
Depth Scale	200:1		
Date	26.9.76.		
First Reading	204		
Last Reading	0		
Interval Measured	204		
Casing BPB			
Casing Driller			
Depth Reached	206.0		
Bottom Driller	206.3		
Mud Nature	WATER		
S.G. / Viscosity			
Bit Size 1	H to T.D.	to	to
2	to	to	to
3	to	to	to
Casing Size 1	to	to	to
2	to	to	to
Rm @ Meas Temp.	@	@	@
Rmf @ Meas Temp.	@	@	@
Rmc @ Meas Temp.	@	@	@
BHT			
Operating Time	3hrs.		
Truck No.	V22/26		
Recorded By	MIKE SEAL		
Witness			

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REMARKS

Changes in Mud Type or Additional Samples			
Date / Sample No.			
Depth — Driller			
Type Fluid in Hole			
Dens. / Visc.			
ph. / Fluid Loss		ml	
Source of Sample			
Rm @ Meas Temp.		@ °F	@ °F
Rmf @ Meas Temp.		@ °F	@ °F
Rmc @ Meas Temp.		@ °F	@ °F
Source: Rmf / Rmc			
Rm @ BHT		@ °F	@ °F
Rmf @ BHT		@ °F	@ °F
Rmc @ BHT		@ °F	@ °F

Scale Changes

Type Log	Depth	Scale Up Hole	Scale Down

Equipment Data

Run No.	Tool Type	Tool Position	Other

Logging Data

Log	Depths From	Depths To	Speed M/MIN	T.C SEC	Norm. RATIO	Source No	Source Number
N-N	204	0	9	1		9	C-1

HOLE LOGGED THROUGH "H" RODS INCLINED AT 70 DEGREES TO HORIZONTAL

DEPTH 200:1 — NEUTRON - NEUTRON

DEPTHS 200:1 — NEUTRON-NEUTRON

COMPANY DENISON COAL LTD.

BOREHOLE SD 7608

FIELD SAXON

COUNTY ______ STATE B.C.

MY 41485 R

Gr-Density 76.48

COMPANY DENISON COAL LTD.
BOREHOLE 327B08
FIELD SAXON
COUNTY
STATE B.C.

B.H.DENSITY DETAIL
SCC

Date	27-Jun-76
Run No.	1
Depth Driller	1100
Depth Logger	
Bottom Logged Interval	
Top Log Interval	
Casing Driller	0
Casing Logger	
Bit Size	6 7/8
Type Fluid in Hole	WATER
Dens.	
Visc.	
pH	
Fluid Loss	
Source of Sample	
Rm @ Meas. Temp.	@ °F
Rmf @ Meas. Temp.	@ °F
Rmc @ Meas. Temp.	@ °F
Source: Rmf / Rmc	
Rm @ BHT	@ °F
Rmf @ BHT	@ °F
Rmc @ BHT	@ °F
Max. Rec. Temp.	85 °C
Equip. Location	KAMLOOPS
Recorded By	D.HAN
Witnessed By	

Elev. Perm. Datum GROUND LEVEL
Log Measured from KB 0 Ft. Above Perm. Datum
Drill Measured from KB 0 Ft. Above Perm. Datum

REMARKS

Changes in Mud Type or Additional Samples

Date	Sample No.		
Depth			

Type Fluid in Hole

Dens.	Visc.
pH	Fluid Loss

Source of Sample

Rm	@ Meas. Temp.	@	°F	@	°F
Rmf	@ Meas. Temp.	@	°F	@	°F
Rmc	@ Meas. Temp.	@	°F	@	°F
Source: Rmf / Rmc					
Rm	@ BHT	@	°F	@	°F
Rmf	@ BHT	@	°F	@	°F
Rmc	@ BHT	@	°F	@	°F

Scale Changes

Type Log	Depth	Scale Hr. Hole	Scale Dev.

Equipment Data

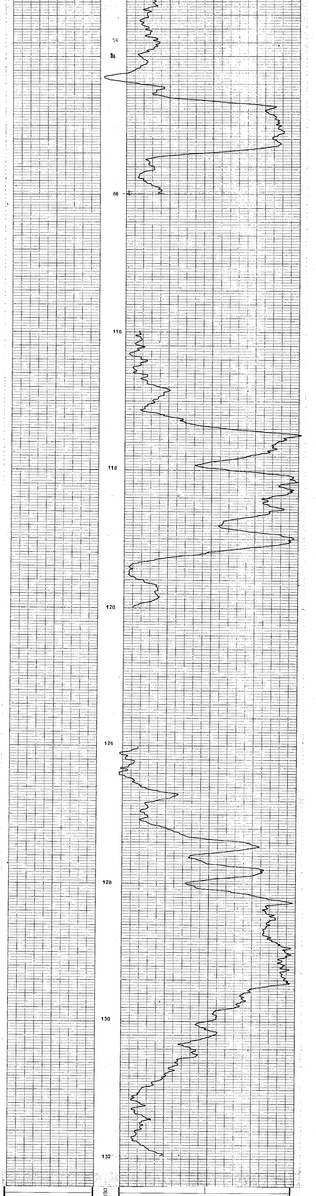
Rec. No.	Rec. Equip.	Tape Recorder	Logger

Equipment Data

Log	Depths From	To	Run No.	Date	Time	Recorded By	Witnessed By
BHC	132	83	2	1		85	CHFP

HOLE LOGGED THROUGH "PW" BOXS INCLINED AT 70 DEGREES TO HORIZONTAL

B.H.DENSITY DETAIL



B.H.DENSITY

COMPANY DENISON COAL LTD.
BOREHOLE 327B08
FIELD SAXON
COUNTY
STATE B.C.

62 - SAXON 76 SE 12.

COMPANY — SEASON COAL LTD.
BOREHOLE — SD 7608
STATE — B.C. COUNTRY — CANADA

H.R.DENSITY DETAIL
LOG

Permanent Datum: GROUND LEVEL — Elev. ft.
Log measured from: — ft. above P.D.
Drill measured from: — ft. above P.D.

Run No.	One	Two	Three
Date	25.2.76	25.2.76	
Depth Driller	2041	2041	
Depth Logger	2038	2038	
Bottom Logged Int.	2036.5	2036.5	
Top Log Int.	2000	2000	
Casing Driller			
Casing Logger			
Casing Size			
Type Fluid in Hole	WATER	WATER	
Max. Rec. Temp. °C			
Est. Surface Temp. °C			
Time Since Circ. Hrs.			
Max. Rec. Temp. °F			
Equipment Number	926, 916, 63		
Location	6 4 3		
Recorded By			
Witnessed By			

REMARKS

Changes in Mud Type or Additional Samples

Date	Sample No.				
Depth – Driller					
Type Fluid in Hole					
Density	Visc.				
pH	Fluid Loss		ml		
Source of Sample					
Rm @ Meas. Temp.	@ °F		@ °F		
Rmf @ Meas. Temp.	@ °F		@ °F		
Rmc @ Meas. Temp.	@ °F		@ °F		
Source: Rmf Rmc					
Rm @ Bht	@ °F		@ °F		
Rmf @ Bht	@ °F		@ °F		
Rmc @ Bht	@ °F		@ °F		

Scale Changes

Type Log	Depth	Scale Up Hor.	Scale Down

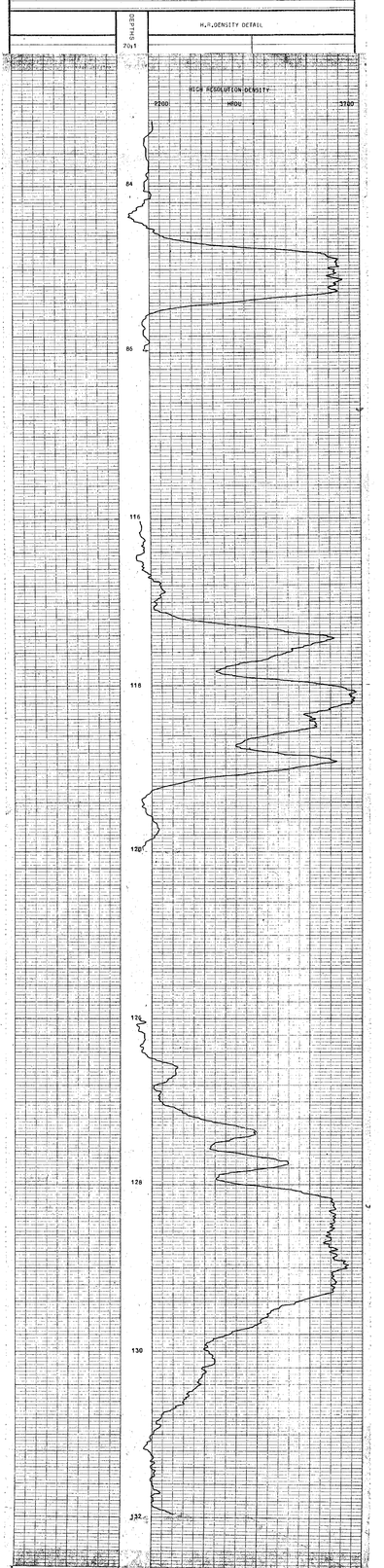
Equipment Data

Run No.	Tool Type	Tool Position	Other

Logging Data

Log	Depths From	Depths To	Speed	T.C.	Norm.	Gain %	Operator Number
HRD	152	83	24	1	0.599	63	C-2

HOLE LOGGED THROUGH "W" RODS INCLINED AT 70 DEGREES TO HORIZONTAL



COMPANY — DENISON COAL LTD.
BOREHOLE — SD 7608
FIELD — SAXON
COUNTY — STATE — B.C.

627

GAMMA RAY
RESISTANCE LOG

COMPANY: DENISON COAL LTD.
BOREHOLE: SD7606
STATE: B.C.   COUNTRY: CANADA

Permanent Datum: GROUND LEVEL   Elev ___ Ft.
Log measured from: "   Ft. above P.D.
Drilling measured from ___ Ft. above P.D.

Run No.	1		
Depth Scale	200:1		
Date	16.9.76.		
First Reading	244		
Last Reading	0		
Interval Measured	244		
Casing BPB	8.0m		
Casing Driller	8.0m		
Depth Reached	246.5m		
Bottom Driller	245.9m		
Mud Nature	WATER		
S.G. / Viscosity			
Bit Size 1	H to T.D.	to	to
2	to	to	to
3	to	to	to
Casing Size 1	4" to 8.0m	to	to
2	to	to	to
Rm @ Meas Temp.	@	@	@
Rmf @ Meas Temp.	@	@	@
Rmc @ Meas Temp.	@	@	@
BHT			
Operating Time	5hrs.		
Truck No.	V22/26		
Recorded By	MIKE SEAL		
Witness			

627

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REMARKS

Changes in Mud Type or Additional Samples				
Date / Sample No.				
Depth – Driller				
Type Fluid in Hole				
Dens. / Visc.				
ph. / Fluid Loss		ml		
Source of Sample				
Rm @ Meas Temp.	@	°F	@	°F
Rmf @ Meas Temp.	@	°F	@	°F
Rmc @ Meas Temp.	@	°F	@	°F
Source: Rmf / Rmc				
Rm @ BHT	@	°F	@	°F
Rmf @ BHT	@	°F	@	°F
Rmc @ BHT	@	°F	@	°F

Scale Changes

Type Log	Depth	Scale Up Hole	Scale Down

Equipment Data

Run No.	Tool Type	Tool Position	Other

Logging Data

Log	Depths From	Depths To	Speed M/MIN	T.C. SECS	Norm. RATIO	Sample No.	Source Number
RES	244	W.L.	15				
GAMMA	244	0	9	1		82	

HOLE DRILLED AT 60 DEGREES TO HORIZONTAL

GAMMA RAY	DEPTHS 200:1	RESISTANCE

GAMMA RAY	DEPTHS 200:1	RESISTANCE

COMPANY: DENISON COAL LTD.
BOREHOLE: SD 7606
FIELD: SAXON
COUNTY: ___ STATE: B.C.

MY 41485 R

OK - SAXON 76(5)A.

627

CALIPER AND B.R.DENSITY DETAIL LOG

COMPANY: DENISON COAL LTD.
BOREHOLE: SD 7506
STATE: B.C.
COUNTRY: CANADA

Permanent Datum: GROUND LEVEL
Elev. ___ Ft.
Log measured from: "
Ft. above P.D.
Drilling measured from: "
Ft. above P.D.

Run No.	Depth Scale	1	20:1
Date		16.9.76.	
First Reading		243 219 174 67 33	
Last Reading		236 205 167 73 28	
Interval Measured		7 10 7 14 5	
Casing BPB		8.0m	
Casing Driller		8.0m	
Depth Reached		246.5m	
Bottom Driller		246.9m	
Mud Nature		water	
S.G.	Viscosity		
Bit Size 1		H to T.D.	to
2		to	to
3		to	to
Casing Size 1		4" to 8.0m	to
2		to	to
Rm @ Meas Temp.		@	@
Rmf @ Meas Temp.		@	@
Rmc @ Meas Temp.		@	@
BHT			
Operating Time		5hrs.	
Truck No.		V22/26	
Recorded By		MIKE SEAL	
Witness			

fold here

REMARKS

Changes in Mud Type or Additional Samples

Date	Sample No.		
Depth – Driller			
Type Fluid in Hole			
Dens. / Visc.			
ph. / Fluid Loss		ml	
Source of Sample			
Rm @ Meas Temp.		@ °F	@ °F
Rmf @ Meas Temp		@ °F	@ °F
Rmc @ Meas Temp		@ °F	@ °F
Source: Rmf / Rmc			
Rm @ BHT		@ °F	@ °F
Rmf @ BHT		@ °F	@ °F
Rmc @ BHT		@ °F	@ °F

Scale Changes

Type Log	Depth	Scale Up Hole	Scale Down

Equipment Data

Run No.	Tool Type	Tool Position	Other

Logging Data

Log	Depths From	Depths To	Speed M/MIN	T.C. SEC	Norm. RATIO	Standard	Source Number
CALIPER	33	28	5	1/3		131	
BRD	243	28	2	1		83	C-1*

HOLE DRILLED AT 60 DEGREES TO HORIZONTAL

CALIPER DETAIL	DEPTHS	B.R.DENSITY DETAIL LOG
	20:1	

CALIPER DETAIL	DEPTHS	B.R.DENSITY DETAIL LOG

COMPANY: DENISON COAL LTD.
BOREHOLE: SD 7606
FIELD: SAXON
COUNTY: ___ STATE: B.C.

MY 4148 5R

PR-SAXON 76(3)A

627

GAMMA RAY DETAIL LOG

COMPANY	DENISON COAL LTD.
BOREHOLE	SD 7606
STATE	B.C.
COUNTRY	CANADA

Permanent Datum GROUND LEVEL Elev ____ Ft.

Log measured from " Ft. above P.D.

Drilling measured from " Ft. above P.D.

Run No.	1		
Depth Scale	20:1		
Date	15.9.76.		
First Reading	243 215 174 87 33		
Last Reading	236 205 167 73 28		
Interval Measured	7 10 7 14 5		
Casing BPB	8.0m		
Casing Driller	8.0m		
Depth Reached	246.5m		
Bottom Driller	246.9m		
Mud Nature	WATER		
S.G. / Viscosity			
Bit Size	H to T.D.	to	to
1	to	to	to
2	to	to	to
3	to	to	to
Casing Size	4" to 8.0m	to	to
Rm @ Meas Temp.	@	@	@
Rmf @ Meas Temp.	@	@	@
Rmc @ Meas Temp.	@	@	@
BHT			
Operating Time	5hrs.		
Truck No.	V22/26		
Recorded By	MIKE SEAL		
Witness			

fold here

REMARKS

Changes in Mud Type or Additional Samples				
Date / Sample No.				
Depth — Driller				
Type Fluid in Hole				
Dens. / Visc.				
pH / Fluid Loss		ml		
Source of Sample				
Rm @ Meas Temp.	@	°F	@	°F
Rmf @ Meas Temp.	@	°F	@	°F
Rmc @ Meas Temp.	@	°F	@	°F
Source: Rmf / Rmc				
Rm @ BHT	@	°F	@	°F
Rmf @ BHT	@	°F	@	°F
Rmc @ BHT	@	°F	@	°F

Scale Changes

Type Log	Depth	Scale Up Hole	Scale Down

Equipment Data

Run No.	Tool Type	Tool Position	Other

Logging Data

Log	Depths From	Depths To	Speed M/MIN	T.C. SEC	Norm. RATIO	Sensitivity	Source Number
GAMMA	243	28	3	1		82	

HOLE DRILLED AT 60 DEGREES TO HORIZONTAL

DEPTHS 20:1 | GAMMA RAY DETAIL LOG

DEPTHS 20:1 | GAMMA RAY DETAIL LOG

COMPANY DENISON COAL LTD.

BOREHOLE SD 7606

FIELD SAXON

COUNTY ____ STATE B.C.

MY 41485 R

PR - SAXON 76(3)A.

H.R.DENSITY DETAIL LOG

BPB

COMPANY	DENISON COAL LTD.
BOREHOLE	SD 7606
STATE	B.C.
COUNTRY	CANADA
Permanent Datum	GROUND LEVEL
Elev	Ft.
Log measured from	" Ft. above P.D.
Drilling measured from	" Ft. above P.D.

627

Run No. Depth Scale	1 2011		
Date	16.9.76.		
First Reading	243 215 174 87 33		
Last Reading	236 205 167 73 28		
Interval Measured	7 10 7 14 5		
Casing BPB	8.0m		
Casing Driller	8.0m		
Depth Reached	246.5m		
Bottom Driller	246.9m		
Mud Nature	WATER		
S.G. Viscosity			
Bit Size 1	H to T.D.	to	to
2	to	to	to
3	to	to	to
Casing Size 1	4" to 8.0m	to	to
2	to	to	to
3	to	to	to
Rm @ Meas Temp.	@	@	@
Rmf @ Meas Temp.	@	@	@
Rmc @ Meas Temp.	@	@	@
BHT			
Operating Time	5hrs.		
Truck No.	V22/26		
Recorded By	MIKE SEAL		
Witness			

fold here

REMARKS

Changes in Mud Type or Additional Samples			
Date / Sample No.			
Depth – Driller			
Type Fluid in Hole			
Dens. / Visc.			
ph. / Fluid Loss	ml		
Source of Sample			
Rm @ Meas Temp.	@ °F	@ °F	
Rmf @ Meas Temp.	@ °F	@ °F	
Rmc @ Meas Temp.	@ °F	@ °F	
Source: Rmf / Rmc			
Rm @ BHT	@ °F	@ °F	
Rmf @ BHT	@ °F	@ °F	
Rmc @ BHT	@ °F	@ °F	

Scale Changes

Type Log	Depth	Scale Up Hole	Scale Down

Equipment Data

Run No	Tool Type	Tool Position	Other

Logging Data

Log	Depths From	Depths To	Speed M/MIN	T.C. SEC	Norm. RATIO	Gross No	Source Number
HRD	243	28	2½	1	0.599	83	C-2

HOLE DRILLED AT 60 DEGREES TO HORIZONTAL

DEPTHS 20:1 | H.R.DENSITY DETAIL LOG

DEPTHS 20:1 | H.R.DENSITY DETAIL LOG

COMPANY DENISON COAL LTD.

BOREHOLE SD 7606

FIELD SAXON

COUNTY ____ STATE B.C.

MY 41485 R

Date	3-5-80
Company	DENISON COAL LTD.
Borehole	SD 7606
Field	
County	UNION
State	N.C.
Elevation	ft
Permanent Datum	GROUND LEVEL
Log Measured from	GROUND LEVEL
Drilling Measured from	GROUND LEVEL
Run Number	1
Date	3-5-80
Depth-Driller	244
Depth-Logger	244
Bottom Logged Interval	244
Top Log Interval	SURFACE
Casing-Driller	20 @ 0
Casing-Logger	20
Bit	6 7/8
Type Fluid in Hole	WATER
Dens. / Visc.	
pH / Fluid Loss	
Source of Sample	
Rm @ Meas. Temp.	
Rmf @ Meas. Temp.	
Rmc @ Meas. Temp.	
Source: Rmf / Rmc	
Rm @ BHT	
Rmf @ BHT	
Rmc @ BHT	
Max. Rec. Temp.	
Equipment Location	
Recorded By	
Witnessed By	

COMPANY DENISON COAL LTD.
BOREHOLE SD 7606
STATE N.C. COUNTY UNION
FIELD
DATE 3-5-80
L.S.DENSITY
RUN 1

Type Log | Depth | Scale Up Hole | Scale Down

Equipment Data

Run No.	Tool Type	Tool Position	Other

Logging Data

Log	Depth Logged From	To	Speed F/M	Time Since Circ. HRS	Time Since Log HRS	Logging Unit Number	Truck Number
L.S.D.	244	0	9	4.25	4.25	6,700	33 L-50

REMARKS

Changes or Mud Type or Additional Samples
Date | Sample No.
Depth | Sample
Type Fluid in Hole
Dens. | Visc.
pH | Fluid Loss
Source of Sample
Rm @ Meas. Temp. | Rmf @ Meas. Temp. | Rmc @ Meas. Temp.
Source: Rmf | Rmc
Rm @ BHT | Rmf @ BHT | Rmc @ BHT
Max. Rec. Temp.

HOLE DRILLED AT 60 DEGREES TO HORIZONTAL

CALIPER 3.0in/div | L.S.DENSITY

CALIPER 4" 8"

LONG SPACING DENSITY 1.9 2.7g/cc

GROUND LEVEL

CASING SHOE

WATER LEVEL

0 20 40 60 80 100 120 140 160 180 200 220 240 244

CALIPER 3.0in/div | L.S.DENSITY

COMPANY DENISON COAL LTD.
BOREHOLE SD 7606
FIELD
COUNTY UNION STATE N.C.

Re-Scaled 26 Feb

COMPANY DENSION CONL LTD.
BOREHOLE ID 7607
FIELD SAXON
COUNTY
STATE

RESISTANCE SC

Date	26-Feb-87	Run No.	1
Depth - Driller			
Depth - Logger			
Bottom Log Interval		Top Log Interval	
Casing - Driller	20.0	@	
Casing - Logger			
Bit Size	6.125		
Type Fluid in Hole			
Dens. / Visc.			
pH / Fluid Loss			
Source of Sample			
Rm @ Meas. Temp.		@	°F
Rmf @ Meas. Temp.		@	°F
Rmc @ Meas. Temp.		@	°F
Source: Rmf / Rmc			
Rm @ BHT		@	°F
Rmf @ BHT		@	°F
Rmc @ BHT		@	°F

Elev. Perm. Datum: G.L.
Log Measured from: G.L.
Drill Measured from: G.L.

Elev.		Elev.	
K.B.		D.F.	
G.L.	20.0		

Type Log	Depth	Scale Up Hour	Scale Down Hour

Equipment Data

Run No.	Tool Type	Tape Position	Other

REMARKS

Changes in Mud Type or Additional Samples

Date	Sample No.		
Depth - Driller			
Type Fluid in Hole			
Dens.	Visc.		
pH	Fluid Loss	cc	
Source of Sample			
Rm @ Meas. Temp.	@	°F	@ °F
Rmf @ Meas. Temp.	@	°F	@ °F
Rmc @ Meas. Temp.	@	°F	@ °F
Source: Rmf / Rmc			
Rm @ BHT	@	°F	@ °F
Rmf @ BHT	@	°F	@ °F
Rmc @ BHT	@	°F	@ °F

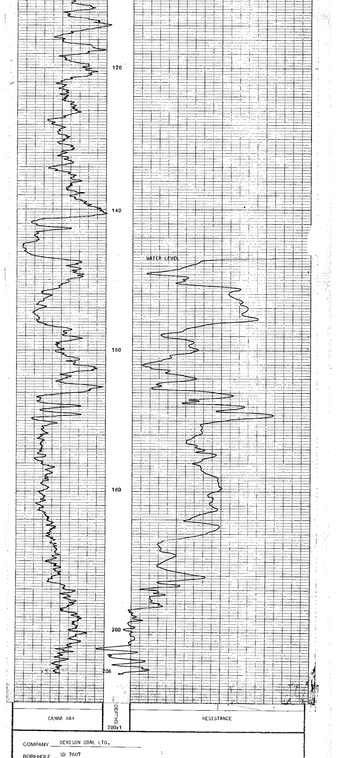
Scale Changes

Run No.	Tool Type	Tape Position	Other

Logging Data

Log	Logged Hour	Date	Time Started	Time Finished	Run No.	Source Number
RES	20G	2-FEB-87	15			
GAMMA	20G	2	9	1	82	

HOLE DRILLED AT 70 DEGREES TO HORIZONTAL



COMPANY DENSION CONL LTD.
BOREHOLE ID 7607
FIELD SAXON
COUNTY
STATE

COMPANY: DENISON COAL LTD.

BOREHOLE: 20 7609

COUNTY: GRAVIN

LOCATION: 1.00

Permanent Datum: GROUND LEVEL
Log Measured from: GROUND LEVEL
Drill Measured from: GROUND LEVEL

Elev. ____ ft
F. Above P.D.
F. Below P.D.

Run No.	Date	Depth Driller	Depth Logger	Bottom Log Interval	Top Log Interval	Casing Driller	Casing Logger	Bit Size
1	83-06-15	1000	1000	1000	0	0	0	6.5

Run No.	Tool Type	Tool Serial No.	Tool Position	Max. Rec. Temp.	Equipment Location
1	GR-CALIPER	2025	1	25	0
1	LONG SPACING DENSITY	2001	1	25	0

REMARKS

Changes in Mud Type or Additional Samples

Density: Sample No. ____ Depth ____

Viscosity: ____

Fluid Lost to Hole: ____

Mud Type: ____ Density: ____ Viscosity: ____ pH: ____ Fluid Loss: ____ ml

Source of Sample: ____

Rm @ Meas. Temp. ____ Ω-m @ ____ °F

Rmf @ Meas. Temp. ____ Ω-m @ ____ °F

Rmc @ Meas. Temp. ____ Ω-m @ ____ °F

Rm @ BHT ____ Ω-m @ ____ °F

Rmf @ BHT ____ Ω-m @ ____ °F

Rmc @ BHT ____ Ω-m @ ____ °F

Time Since Circulation: ____ hrs

Max. Rec. Temperature: ____ °F

Equipment Number: ____

Location: ____

Recorded By: ____

Witnessed By: ____

Hole Changes

Type Log	Depth	Scale/In Hole	Scale/Down

Equipment Data

Run No.	Tool Type	Tool Position	Other

Casing Rec'd

Line	Diameter (inches)	Wt. (lb/ft)	Depth (feet)	Hole Diameter (inches)	Source Thickness
CAS.	20.00	0	0	17.5	
LIN.	20.00	0	0	17.5	0.750 IS

Line	Diameter (inches)	Wt. (lb/ft)	Depth (feet)	Hole Diameter (inches)	Source Thickness
CAS.	20.00	0	0	17.5	
LIN.	20.00	0	0	17.5	0.750 IS

COMPANY DENISON COAL LTD.

BOREHOLE 20 7609

FIELD GRAVIN

COUNTY ____ STATE B.C.

PR- SAXON 76(3)A

7607

GAMMA RAY DETAIL LOG

COMPANY	DENISON COAL LTD.
BOREHOLE	SD 7607
STATE	B.C.
COUNTRY	CANADA
Permanent Datum	GROUND LEVEL Elev ___ Ft.
Log measured from	" Ft. above P.D.
Drilling measured from	" Ft. above P.D.

Run No.	1		
Depth Scale	20:1		
Date	22.9.76.		
First Reading	171 148 112 50		
Last Reading	165 139 107 34		
Interval Measured	6 9 5 16		
Casing BPB	4.4m		
Casing Driller	4.4m		
Depth Reached	207.4		
Bottom Driller			
Mud Nature	WATER		
S G / Viscosity			
Bit Size 1	H to T.D.	to	to
2	to	to	to
3	to	to	to
Casing Size 1	4" to 4.4m	to	to
2	to	to	to
Rm @ Meas Temp.	@	@	@
Rmf @ Meas Temp.	@	@	@
Rmc @ Meas Temp.	@	@	@
BHT			
Operating Time	4hrs.		
Truck No	V22/26		
Recorded By	MIKE SEAL		
Witness			

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fold here

REMARKS

Changes in Mud Type or Additional Samples

Date	Sample No.		
Depth — Driller			
Type Fluid in Hole			
Dens. Visc.			
ph. Fluid Loss	ml		
Source of Sample			
Rm @ Meas Temp.	@ °F		@ °F
Rmf @ Meas Temp.	@ °F		@ °F
Rmc @ Meas Temp.	@ °F		@ °F
Source: Rmf Rmc			
Rm @ BHT	@ °F		@ °F
Rmf @ BHT	@ °F		@ °F
Rmc @ BHT	@ °F		@ °F

Scale Changes

Type Log	Depth	Scale Up Hole	Scale Down

Equipment Data

Run No.	Tool Type	Tool Position	Other

Logging Data

Log	Depths From	Depths To	Speed M/MIN	T.C. SEC	Norm. RATIO	Scale No.	Source Number
GAMMA	171	34	3	1		82	

HOLE DRILLED AT 70 DEGREES TO HORIZONTAL

COMPANY	DENISON COAL LTD.
BOREHOLE	SD 7607
FIELD	SAXON
COUNTY ___ STATE	B.C.

MY 41485 R

Ru-Saxon 76 (3)A.

BPB

H.R.DENSITY DETAIL LOG

COMPANY DENISON COAL LTD.

BOREHOLE SD 7607

STATE B.C. COUNTRY CANADA

Permanent Datum GROUND LEVEL Elev ___ Ft.

Log measured from " Ft. above P.D.

Drilling measured from " Ft. above P.D.

Run No.	Depth Scale	1	20;1
Date		22.9.76.	
First Reading		171 148 112 50	
Last Reading		165 139 107 34	
Interval Measured		6 9 5 16	
Casing BPB		4.4m	
Casing Driller		4.4m	
Depth Reached		207.4m	
Bottom Driller			
Mud Nature		WATER	
S.G.	Viscosity		
Bit Size 1		H to T.D.	to
2		to	to
3		to	to
Casing Size 1		4" to 4.4m	to
2		to	to
Rm @ Meas Temp.		@	@
Rmf @ Meas Temp.		@	@
Rmc @ Meas Temp.		@	@
BHT			
Operating Time		4hrs.	
Truck No.		V22/26	
Recorded By		MIKE SEAL	
Witness			

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fold here

REMARKS

Changes in Mud Type or Additional Samples				
Date	Sample No.			
Depth -- Driller				
Type Fluid in Hole				
Dens.	Visc.			
ph.	Fluid Loss		ml	
Source of Sample				
Rm @ Meas Temp.		@ °F	@ °F	
Rmf @ Meas Temp.		@ °F	@ °F	
Rmc @ Meas Temp.		@ °F	@ °F	
Source: Rmf	Rmc			
Rm @ BHT		@ °F	@ °F	
Rmf @ BHT		@ °F	@ °F	
Rmc @ BHT		@ °F	@ °F	

Scale Changes

Type Log	Depth	Scale Up Hole	Scale Down
HRD	148	6000-12000	4000-8800

Equipment Data

Run No.	Tool Type	Tool Position	Other

Logging Data

Log	Depths From	Depths To	Speed M/MIN	T.C SEC	Norm. RATIO	Source No.	Source Number
HRD	171	34	2½	1	0.599	83	C-2

HOLE DRILLED AT 70 DEGREES TO HORIZONTAL

DEPTHS 20:1 — H.R.DENSITY

DEPTHS 20:1 — H.R.DENSITY DETAIL

COMPANY DENISON COAL LTD.

BOREHOLE SD 7607

FIELD SAXON

COUNTY ___ STATE B.C.

MY 41485 R

Dr. Sam Ritch

627

COMPANY: SCHLUMBERGER WELL SURVEYING CORPORATION

WELL: SEAGS

FIELD: SCHOLLE

COUNTY: SCHOLLE STATE: KANSAS

K.J. DENSITY DETAIL

Other Services: Neutron Log

Permanent Datum: Ground Level

Elevation: 3000 ft

Log Measured From: Kelly Bushing

Drilling Measured From: Kelly Bushing

Date: 1-8-71

Run Number: ONE

Depth-Driller: 1700 ft

Depth-Logger: 1700 ft

Bottom Log Interval: 1700 ft

Top Log Interval: 1000 ft

Casing-Driller: 8 5/8 @ 1000 ft

Casing-Logger: NONE

Bit Size: 7 7/8 in

Type Fluid in Hole: CHEMICAL MUD

Density: 9.2 lb/gal

Viscosity: 45 s

Fluid Loss: 8.0 cc

Source of Sample: PITS

Rm @ Meas. Temp: .75 @ 75 °F

Rmf @ Meas. Temp: .60 @ 75 °F

Rmc @ Meas. Temp: .90 @ 75 °F

Source: Rmf Rmc: MEASURED

Rm @ BHT: .50 @ 100 °F

Time Since Circulation: 8 hrs

Time Since Stop: 1 hr

Max. Recorded Temp: 100 °F

Equipment Location: WICHITA

Recorded By: TOM CARR

Witnessed By: MR. CHAMBERS

Run No. | Bit No. | Depth Drilled | Cumulative Footing | Hours Run | Condition
1 | 1 | 1700 | 1700 | 8 | GOOD

Equipment Data

Tool Type | Serial No. | Calibration Date
DENSITY | 1 | 1-7-71

Remarks: WELL DRILLED AT 30 MONDELL TO 1000' CASING.

Scale: 2" = 100'

Density: 2.0 g/cc

Caliper: 6 in

Gamma Ray: 0 API

Time: 60 min

Depth: 1000 ft

Depth: 1700 ft

K.J. DENSITY

NO REGULATION DENSITY

(2.0-2.5 gm/cc)

K.J. DENSITY DETAIL

COMPANY: SCHLUMBERGER WELL SURVEYING CORPORATION

SCHOLLE

FIELD: SEAGS

COUNTY: STATE: KANSAS

Per Recon 2-8-94

COMPANY: DENSION COAL LTD.
BOREHOLE: 5076S
STATE: B.C. COUNTRY: CANADA

GAMMA RAY
L.DENSITY LOG

Date: 1-Jun-93
Depth Driller: 1100
Depth Logger: 1100
Bottom Log Interval: 1100
Top Log Interval: 0
Casing Driller: 0
Casing Logger: 0
Bit Size: 7 7/8
Type Fluid in Hole: Water
Density: 1
Viscosity: 1
Max Recorded Temp: 25
Estimated Surface Temp: 10
Equipment Number: 1
Location: Sparwood
Recorded By: R.D.R. Gibb
Witnessed By: Mr. Kevin Tyler

	Run 1	Run 2	Run 3
Logging Date	1-Jun-93		
Logging Unit Number	1		
Logging Company	Dresser Atlas		
Type Log	GAMMA RAY	L.DENSITY	
Bottom Logged Interval	1100	1100	
Top Logged Interval	0	0	
Type Fluid in Hole	Water	Water	
Density	1	1	
Viscosity			
Max Rec. Temp.	25	25	
Estimated Surface Temp.	10	10	
Equipment Number	1	1	
Location	Sparwood	Sparwood	
Recorded By	R.D.R. Gibb	R.D.R. Gibb	
Witnessed By	Mr. Kevin Tyler	Mr. Kevin Tyler	
Run No.	1	2	
Bit No.	1	1	
Bit Size	7 7/8	7 7/8	
Depth Driller	1100	1100	
Depth Logger	1100	1100	
Bottom Log Interval	1100	1100	
Top Log Interval	0	0	
Casing Driller	0	0	
Casing Logger	0	0	
Bit Size	7 7/8	7 7/8	
Type Fluid in Hole	Water	Water	
Density	1	1	
Viscosity			
Max Rec. Temp.	25	25	
Estimated Surface Temp.	10	10	
Equipment Number	1	1	
Location	Sparwood	Sparwood	
Recorded By	R.D.R. Gibb	R.D.R. Gibb	
Witnessed By	Mr. Kevin Tyler	Mr. Kevin Tyler	

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Source of Sample: Flowline
Rm @ Measured Temp: @ °F
Rmf @ Measured Temp: @ °F
Rmc @ Measured Temp: @ °F
Source: Rmf Rmc
Rm @ BHT: @ °F
Rmf @ BHT: @ °F
Rmc @ BHT: @ °F

REMARKS:

Changes in Mud Type or Additional Samples
Depth: Sample No.
Depth: Sample No.
Type Fluid at Hole

Time Since Circulation: 12hrs
Time Since Last Log: 20hrs
Max Recorded Temperature: 25deg C
Equipment Number: 1
Location: Sparwood
Recorded By: R.D.R. Gibb
Witnessed By: Mr. Kevin Tyler

Scale Changes

Type Log	Depth	Scale Up Hrs	Scale Down

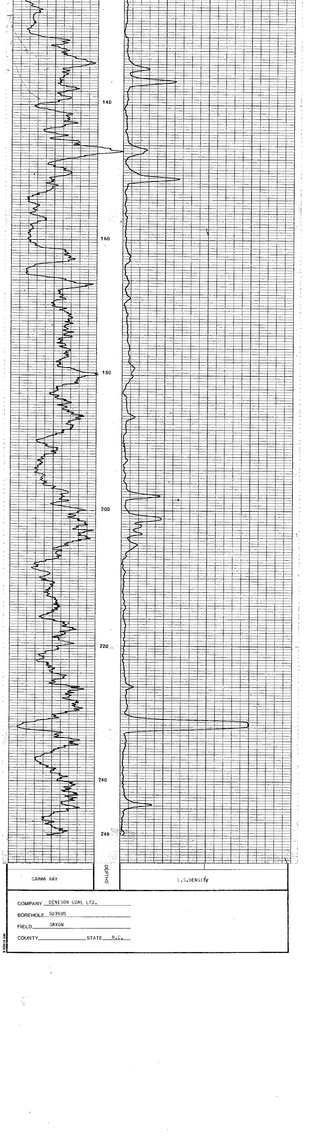
Equipment Data

Run No.	Equip. Type	Equip. Pos.	Other

Logging Data

Run	Logging Date	Unit Number	Bottom Logged Interval (F)	Top Logged Interval (F)	Max. Rec. Temp. (F)	Equipment Location	Recorded By	Witnessed By
1	1-Jun-93	1	1100	0	9	1/3	3,786	22 C-50

HOLE LOGGED THROUGH DRILL RODS



COMPANY DENSION COAL LTD.
BOREHOLE 5076S
FIELD SASCO
COUNTY ____ STATE B.C.

Dr. Gibson, Dr. Cole

629

COMPANY	SCHLUMBERGER WELL SERVICES
WELL	Ft. Lawson #1
FIELD	Wildcat
COUNTY	Lincoln
STATE	Kansas
API SERIAL NO.	15-105-20,001
LOCATION	2310' FSL & 2310' FEL
SEC	29
TWP	17 S
RGE	28 E
PERMANENT DATUM	GROUND LEVEL
ELEVATION	1,000
LOG MEASURED FROM	GROUND LEVEL
DRILLING MEASURED FROM	GROUND LEVEL
DATE	7-8-82
RUN NO.	ONE
DEPTH-DRILLER	2400
DEPTH-LOGGER	2400
BTM. LOG INTERVAL	2400
TOP LOG INTERVAL	SURFACE
CASING-DRILLER	8 5/8 @ 215
CASING-LOGGER	215
BIT SIZE	7 7/8
TYPE FLUID IN HOLE	FRESH WATER GEL
DENSITY	9.0
VISCOSITY	45
PH	10.5
FLUID LOSS	8.0
SOURCE OF SAMPLE	FLOWLINE
RM @ MEAS. TEMP.	.65 @ 75°F
RMF @ MEAS. TEMP.	.50 @ 75°F
RMC @ MEAS. TEMP.	.85 @ 75°F
SOURCE: RMF	RMC
RM @ BHT	.35 @ 105°F
TIME SINCE CIRC.	5 HRS.
MAX. REC. TEMP.	105°F
EQUIP. LOCATION	6 MILES SOUTH
RECORDED BY	D. HAMILTON
WITNESSED BY	MR. BRUNGARDT

NEUTRON-NEUTRON LOG

RUN NO. ONE DATE 7-8-82

COUNTY Lincoln STATE Kansas

Log Measured from GROUND LEVEL 1000 Ft. above Perm. Datum

Drilling Measured from GROUND LEVEL Elevations K.B. 1000 D.F. G.L.

RIG NAMES

Primary or Main Type or Additional Functions

Depth — Driller 2400

Depth — Logger 2400

Type Fluid in Hole FRESH WATER GEL

Casing 8 5/8 @ 215 Bit 7 7/8

Type Log Used NEUTRON-NEUTRON

Source of Sample FLOWLINE

Rm @ Meas. Temp. .65 @ 75°F

Rmf @ Meas. Temp. .50 @ 75°F

Rmc @ Meas. Temp. .85 @ 75°F

Source: Rmf Rmc

Rm @ BHT .35 @ 105°F

Time Since Circ. 5 HRS.

Max. Rec. Temp. 105°F

Equip. Location 6 MILES SOUTH

Recorded By D. HAMILTON

Witnessed By MR. BRUNGARDT

RIG NUMBERS

Elevation of Main Type or Additional Functions

Type Log Run NEUTRON-NEUTRON

Depth — Driller

Depth — Logger

Type Fluid in Hole

Casing @ Bit

Source of Sample

Rm @ Meas. Temp. @ °F

Rmf @ Meas. Temp. @ °F

Rmc @ Meas. Temp. @ °F

Source: Rmf Rmc

Rm @ BHT @ °F

Time Since Circ.

Max. Rec. Temp. @ °F

Equip. Location

Recorded By

Witnessed By

Scale Changes

Type Log	Depth	Scale Up/Hole	Scale Down

Equipment Data

Run No.	Tool Type	Tool Position	Other

Logging Data

Log	Logging Speed (F/M)	Time Constant	Sensitivity
NNT	20 ft	1	2x5

HOLE STUDDED THROUGH SPALL RIDGE

NEUTRON-NEUTRON LOG

2400 0 CPS 2400

NEUTRON-NEUTRON LOG

0 C.P.S. 2400

GROUND LEVEL

WATER LEVEL

0 20 40 60 80 100 120 140 160 180 200 220 240 260

NEUTRON-NEUTRON LOG

COMPANY SCHLUMBERGER WELL SERVICES

BOREHOLE 10-7600

FIELD SAVOY

COUNTY Lincoln STATE Kansas

RE - SAXON 76/3/4.

B.H. DENSITY DETAIL LOG

COMPANY DENISON COAL LTD.
BOREHOLE SD 7605
STATE B.C. COUNTRY CANADA

Permanent Datum GROUND LEVEL Elev. Ft.
Log measured from " Ft. above P.D.
Drilling measured from " Ft. above P.D.

Run No.	Depth Scale
1	20:1

Date	19-9-76.
First Reading	234
Last Reading	229
Interval Measured	5
Casing Size	
Casing Driller	
Casing Depth	269.5
Bit Used	
Mud Type	WATER
Mud Weight	
S.G. Viscosity	
Bit Size 1	H to T.D.
2	to
3	to
Casing Size 1	to
2	to
3	to
Rm @ Meas Temp	@
Rmf @ Meas Temp	@
Rmc @ Meas Temp	@
Rmf @ Meas Temp	@
Operating Time	3.3/Hrs.
Truck No.	V22/26
Recorded By	
Witness	MIKE SEAL

fold here

REMARKS

Changes in Mud Type or Additional Samples

Date	Sample No.			
Depth – Driller				
Type Fluid in Hole				
Dens.	Visc.			
pH	Fluid Loss	ml		

Source of Sample

Rm @ Meas Temp.	@ °F		@	°F
Rmf @ Meas Temp.	@ °F		@	°F
Rmc @ Meas Temp.	@ °F		@	°F
Source: Rmf	Rmc			
Rm @ BHT	@ °F		@	°F
Rmf @ BHT	@ °F		@	°F
Rmc @ BHT	@ °F		@	°F

Scale Changes

Type Log	Depth	Scale Up Hole	Scale Down

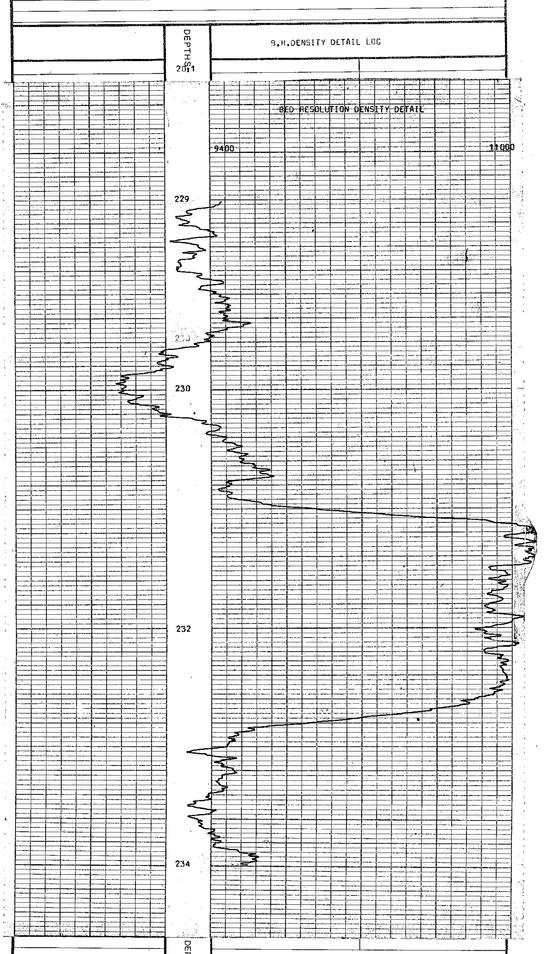
Equipment Data

Run No.	Tool Type	Tool Position	Other

Logging Data

Log	Depths From	Depths To	Speed M/MIN	T.C. SEC	Norm. RATIO	Scale No.	Source Number
BHD	234	229	2	1		83	Cs1*

HOLE LOGGED THROUGH DRILL RODS



COMPANY DENISON COAL LTD.
BOREHOLE SD 7605
FIELD SAXON
COUNTY STATE B.C.

M-T-1483

Re- SAXON 76C31A. 76-05

BPB

GAMMA RAY DETAIL
LOG

COMPANY DENISON COAL LTD.
BOREHOLE SD 7605
STATE B.C. COUNTRY CANADA

Permanent Datum GROUND LEVEL Elev ___ Ft.
Log measured from " Ft. above P.D.
Drilling measured from " Ft. above P.D.

Run No	Depth Scale	1	2&1		
Date		19.9.76.			
First Reading		234			
Last Reading		229			
Interval Measured		5			
Casing BPB					
Casing Driller					
Depth Reached		249.5			
Bottom Driller					
Mud Nature		WATER			
S/G	Viscosity				
Bit Size 1		H to T.D.	to	to	
2		to	to	to	
3		to	to	to	
Casing Size 1		to	to	to	
2		to	to	to	
Rm @ Meas Temp		@	@	@	
Rmf @ Meas Temp		@	@	@	
Rmc @ Meas Temp		@	@	@	
BHT					
Operating Time		3 3/4hrs.			
Truck No.		V22/26			
Recorded By		MIKE SEAL			
Witness					

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REMARKS.

Changes in Mud Type or Additional Samples

Date	Sample No.	Depth	Type Mud	Visc.	Fluid Loss	Density	Rm @ Meas Temp	Rmf @ Meas Temp	Rmc @ Meas Temp	Source of Mud	Rm @ Meas Temp	Rmf @ Meas Temp	Rmc @ Meas Temp
	Depth = Driller												
	Type Fluid in Hole												
	Dens.		Visc.										
	pH		Fluid Loss										
			ml										

Scale Changes

Type Log	Depth	Scale Up Hole	Scale Down

Equipment Data

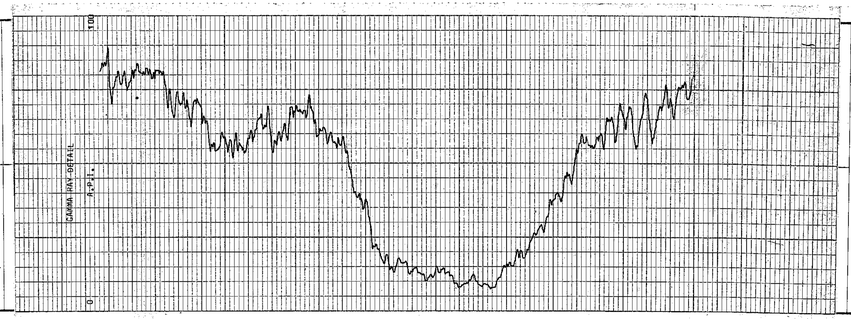
Run No.	Tool Type	Tool Position	Other

Logging Data

Log	Depths From	Depths To	Speed	T.C.	Norm.	Sens. No.	Source Number
GAMMA	234	229	3	1	1/4/10 SEC	DATTON	82

HOLE LOGGED THROUGH DRILL RODS

GAMMA RAY DETAIL



DEPTHS 234 229 230 232 234

GAMMA RAY DETAIL LOG

DEPTHS 234

COMPANY DENISON COAL LTD.
BOREHOLE SD 7605
FIELD SAXON
COUNTY ___ STATE B.C.

MY 41485 R

Re: Saxon 76 G.S.P.

COMPANY DENISON COAL LTD.

BOREHOLE SD 7605

STATE B.C. COUNTRY CANADA

H.R.DENSITY DETAIL LOG

Permanent Datum	GROUND LEVEL	Elev.	Ft.
Log measured from	"	Ft. above	P.D.
Drilling measured from	"	Ft. above	P.D.

Run No.	Depth Scale	Date	Time Reading	Last Reading	Interval Measured	Casing Driller	Casing Depth	Bottom Driller	Mud Nature
1	1	1973-7-15		229	5		209.5m		LATEX
	2								

fold here

REMARKS

Changes in Mud Type or Additional Samples

Date	Sample No.			
Depth	Driller			
Type Fluid in Hole				
Dens.	Visc.			
ph	Fluid Loss		ml	
Source of Sample				
Rm @ Meas Temp.		@ °F	@ °F	@ °F
Rmf @ Meas Temp.		@ °F	@ °F	@ °F
Rmc @ Meas Temp.		@ °F	@ °F	@ °F
Source Rmf	Rmc			
Rm @ BHT		@ °F	@ °F	@ °F
Rmf @ BHT		@ °F	@ °F	@ °F
Rmc @ BHT		@ °F	@ °F	@ °F

Bit Size	1	10	10	10	10
	2				
	3				
Mud Type		N	N	N	N
Viscosity		40	40	40	40
Casing Size	1	T.D.			
	2				
	3				
Rm @ Meas Temp.		10	10	10	10
Rmf @ Meas Temp.		10	10	10	10
Rmc @ Meas Temp.		10	10	10	10
Bit Hours		@	@	@	@
Operating Time					
Truck No.		3 3/4hrs.			
Recorded By		V22/26			
Witness		#15C SEAL			

Scale Changes

Type Log	Depth	Scale Up Hole	Scale Down

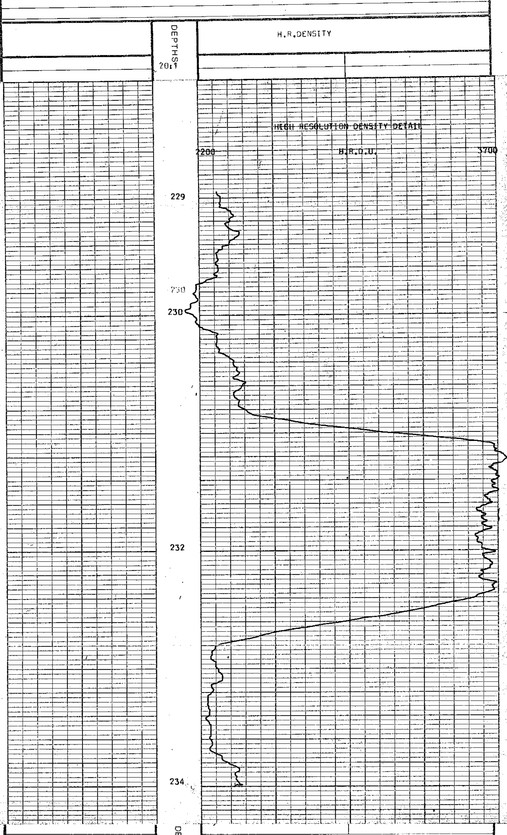
Equipment Data

Run No	Tool Type	Tool Position	Other

Logging Data

Log	Depths From	Depths To	Speed M/MIN	T.C. SEC	Norm RATIO	Sensitivity	Source Number
HRD	234	229	23	1	0.599	83	C-2

HOLE LOGGED THROUGH DRILL RODS



COMPANY DENISON COAL LTD.

BOREHOLE SD 7605

FIELD SAXON

COUNTY _____ STATE B.C.

WV-12481

627

COMPANY DENSON COAL LTD.
BOREHOLE 30 TAGR
STATE B.C. COUNTY SAXON
FIELD
Log Measured from
Drilling Measured from
Permanent Datum
Elevation
Elev. K.B.
Elev. D.F.
Elev. G.L.
Date
Run No.
Depth-Driller
Depth-Logger
Bottom Log Interval
Top Log Interval
Casing-Driller
Casing-Logger
Bit Size
Type Fluid in Hole
Dens.
Visc.
pH
Fluid Loss
Source of Sample
Rm @ Meas. Temp.
Rmf @ Meas. Temp.
Rmc @ Meas. Temp.
Source: Rmf Rmc
Rm @ BHT
Rmf @ BHT
Rmc @ BHT
Max. Rec. Temp. °C
Equip. Location
Recorded By
Witnessed By

Equipment	Serial No.
Recorder	6127
Gamma Ray	2001
Resistance	2004

Run No.	Bit Size	Casing Size	Casing Depth	Bit Depth	Time Circ.	Max. Rec. Temp.

REMARKS

Changes in Mud Type or Additional Samples

Date	Sample No.	Depth

Taught - Driller
Tape Fluid at Hole

Scale Changes

Type Log	Depth	Scale/in Hole	Scale/Down

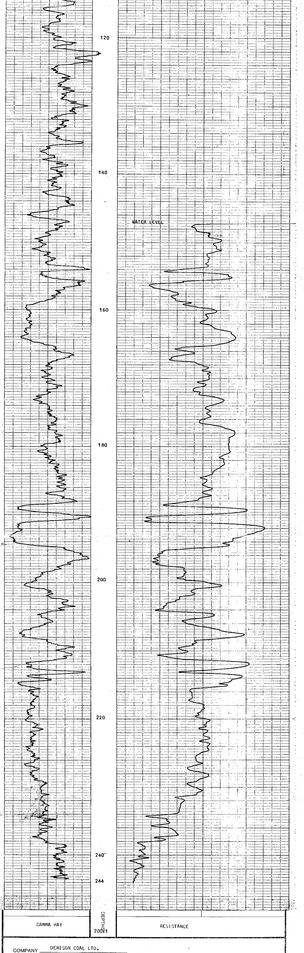
Equipment Data

Run No.	Tool Type	Tool Position	Other

Logging Data

Log	Started	Finished	Logged	Date
	Hour	Hour	Hour	
RES	24	24	24	
GAMMA	24	0	5	82

HOLE LINED WITH FIBRETEX
WATER LEVEL FILLING IN HOLE LOGGED



COMPANY DENSON COAL LTD.
BOREHOLE 30 TAGR
FIELD SAXON
COUNTY STATE B.C.

File # 4
76(3) A-2

627

Date	12-7-87		
Run No.	ONE		
Depth-Driller	7500		
Depth-Logger	7500		
Bottom log interval	7500		
Top log interval	SURFACE		
Casing-Driller	13 3/8 @ 2500		
Casing-Logger			
Bit Size	12 1/4		
Type fluid in hole	LIGNOSULFATE		
Dens. / Visc.	9.7 / 45		
pH / Fluid loss	9.5 / 6.0		
Source of sample	FLOWLINE		
Rm @ Meas. Temp.	.09 @ 70		
Rmf @ Meas. Temp.	.08 @ 70		
Rmc @ Meas. Temp.	.25 @ 70		
Source: Rmf / Rmc	M / M		
Rm @ BHT	.05 @ 150		
Time since circ.	8		
Max. rec. temp.	150		
Equip. location	9		
Recorded by	R. BOWEN		
Witnessed by	J. FOSTER		

Equipment	Serial No.	Hours
Recorder	3-1	4.75
Dual Induction	3-1	4.75
Sonic	3-1	4.75
Density	3-1	4.75
Neutron	3-1	4.75
Caliper	3-1	4.75

Run No.	Date	Time	Depth Driller	Depth Logger	Bottom Log Int.	Top Log Int.	Casing Size	Bit Size	Type Fluid
ONE	12-7-87	8:00	7500	7500	7500	SURFACE	13 3/8 @ 2500	12 1/4	LIGNOSULFATE

Equipment	Serial No.	Hours
Recorder	3-1	4.75
Dual Induction	3-1	4.75
Sonic	3-1	4.75
Density	3-1	4.75
Neutron	3-1	4.75
Caliper	3-1	4.75

Run No.	Date	Time	Depth Driller	Depth Logger	Bottom Log Int.	Top Log Int.	Casing Size	Bit Size	Type Fluid
ONE	12-7-87	8:00	7500	7500	7500	SURFACE	13 3/8 @ 2500	12 1/4	LIGNOSULFATE

REMARKS:

HOLE LINED WITH FIBER TEX
WATER LEVEL TO BE MEASURED LOGGED

GALLERY

LONG SPACING DENSITY
(TENSION WAT)

7500

GRING LEAD

20

40

60

80

100

120

140

160

WATER LEVEL (SCALE CHANGE)

7500

LONG SPACING DENSITY
(TENSION WAT)

180

200

220

240

244

GALLERY

COMPANY DENSITY CORP. LTD.

WELL 10-7628

FIELD SASKIN

COUNTY _____ STATE B.C.

PL-SAXON 76(3)A

627

GAMMA RAY DETAIL LOG

COMPANY DENISON COAL LTD.
BOREHOLE SD 7601
STATE B.C. COUNTRY CANADA

Permanent Datum GROUND LEVEL Elev. ___ Ft.
Log measured from " Ft. above P.D.
Drilling measured from " Ft. above P.D.

Run No.	1		
Depth Scale	20:1		
Date	21.9.76.		
First Reading	217 196 157 107		
Last Reading	210 187 153 96		
Interval Measured	7 9 4 11		
Casing BPB			
Casing Driller			
Depth Reached	246.1		
Bottom Driller	246.6		
Mud Nature	WATER		
S.G. / Viscosity			
Bit Size 1	H to T.D.	to	to
2	to	to	to
3	to	to	to
Casing Size 1	to	to	to
2	to	to	to
Rm @ Meas Temp.	@	@	@
Rmf @ Meas Temp.	@	@	@
Rmc @ Meas Temp.	@	@	@
BHT			
Operating Time	6hrs.		
Truck No.	V22/26		
Recorded By	MIKE SEAL		
Witness			

fold here

REMARKS

Changes in Mud Type or Additional Samples				
Date / Sample No.				
Depth – Driller				
Type Fluid in Hole				
Dens. / Visc.				
ph. / Fluid Loss		ml		
Source of Sample				
Rm @ Meas Temp.	@	°F	@	°F
Rmf @ Meas Temp.	@	°F	@	°F
Rmc @ Meas Temp.	@	°F	@	°F
Source: Rmf / Rmc				
Rm @ BHT	@	°F	@	°F
Rmf @ BHT	@	°F	@	°F
Rmc @ BHT	@	°F	@	°F

Scale Changes

Type Log	Depth	Scale Up Hole	Scale Down

Equipment Data

Run No.	Tool Type	Tool Position	Other

Logging Data

Log	Depths From	Depths To	Speed M/MIN	T.C. SEC	Norm. RATIO	Sens. No.	Source Number
GAMMA	217	96	3	1		82	

HOLE LINED WITH FIBRETEX
WATER LEVEL RISING AS HOLE LOGGED

DEPTHS 20:1 | GAMMA RAY DETAIL

DEPTHS 20:1 | GAMMA RAY DETAIL

COMPANY DENISON COAL LTD.
BOREHOLE SD 7601
FIELD SAXON
COUNTY ___ STATE B.C.

MY 41485 R

VSC-004 4 Plate 4 pg 19

COMPANY: DENSION COAL
WELL: 87007
FIELD: SANDY
COUNTY: BUCK STATE: WV

Gamma Ray
Long Spacing Density
Caliper

Permanent datum: Ground Level Elevation: 0 ft
Log measured from: Ground Level 0 ft above P.D.
Drilling measured from: Ground Level 0 ft above P.D.

Date: 7-8-87
Run No: 1
Depth Driller: 304
Depth Logger: 304
Bottom Log Interval: 304
Top Log Interval: 0
Casing Driller: 0
Casing Logger: 0
Bit Size: 5 7/8
Type Fluid in Hole: AIR
Dens: n/a Visc: n/a
pH: n/a Fluid Loss: n/a ml
Source of Sample: n/a
Rm @ Meas. Temp: @ n/a @ n/a
Rmf @ Meas. Temp: @ n/a @ n/a
Rmc @ Meas. Temp: @ n/a @ n/a
Source: Rmf / Rmc: n/a
Rm @ BHT: @ n/a @ n/a
Rmf @ BHT: @ n/a @ n/a
Rmc @ BHT: @ n/a @ n/a

Run No.	Tool Type	Tool Position	Units
1	C.S.D.	Sidewall	
1	Gamma	Accentrated	

REMARKS

Changes in Mud Type or Additional Samples

Date	Sample No.		
Depth - Driller			
Type Fluid in Hole			
Dens	Visc		
pH	Fluid Loss	ml	
Source of Sample			
Rm @ Meas. Temp	@	°F	@ °F
Rmf @ Meas. Temp	@	°F	@ °F
Rmc @ Meas. Temp	@	°F	@ °F
Source: Rmf / Rmc	F		F
Rm @ BHT	@	°F	@ °F
Rmf @ BHT	@	°F	@ °F
Rmc @ BHT	@	°F	@ °F

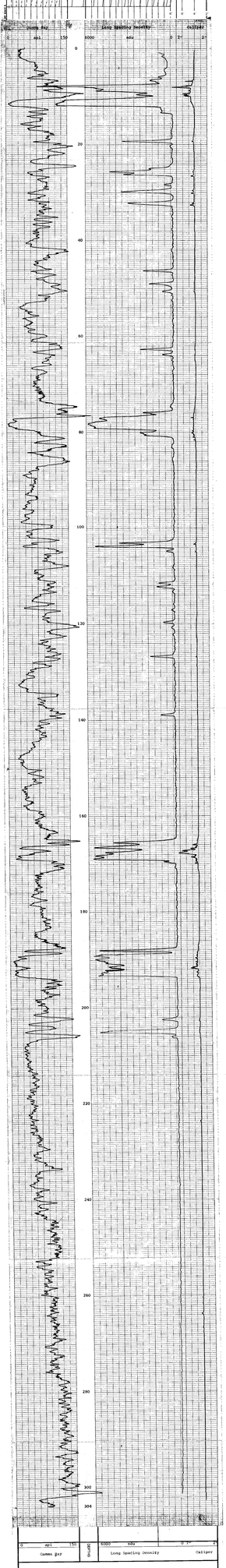
Scale Changes

Type Log	Depth	Scale Up Hole	Scale Down
		API 0 150	
L.S.D.		6000 0	mho
Caliper		0 2"	

Equipment Data

Log	Serial No.	Type	Run No.	Max. Rec. Temp.	Source
Gamma	2854	G	1	90	
Density	2854	D	1	0.2 g/cc	-0.01
Caliper	2854	C	1	20%	0

Hole was drilled at an angle of 90°



0 API 150	LAYOUT	6000 mho	0 2" 2
Gamma Ray		Long Spacing Density	Caliper

COMPANY Dension Coal
BOREHOLE 87007
FIELD Sandy
COUNTY STATE WVC

PR-SAXON-76(5)A-1

MAPS

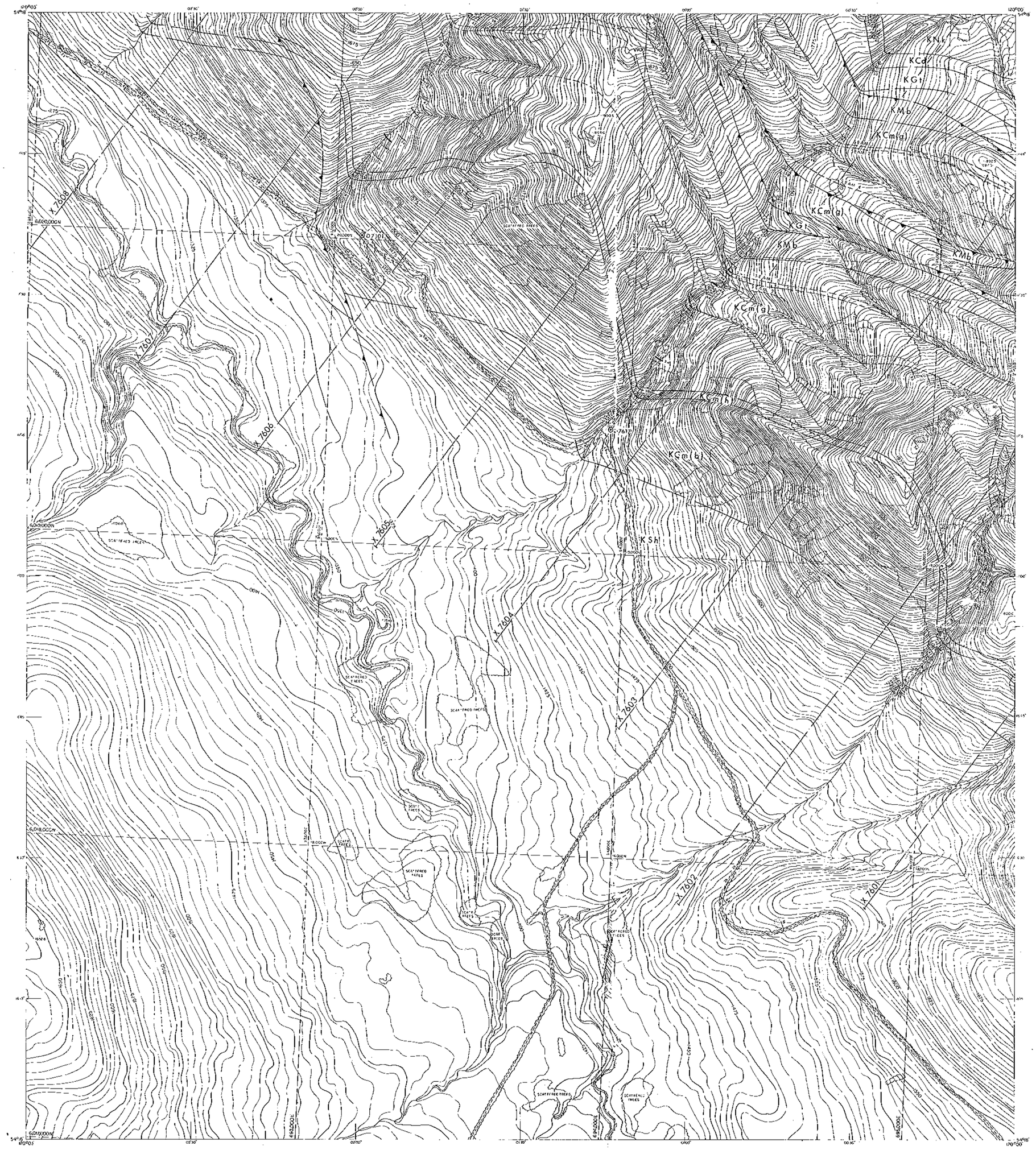
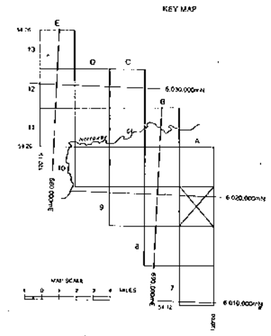


PHOTO REDUCED SCALE
1 — 10,000

duplicate

KEY MAP



LEGEND

Improved road		River	
Secondary road		Stream	
Track or trail		Intermittent stream	
Railway		Swamp	
Fence		Contours	2100
Walk		Horizontal control	A H-12
Cut line		Vertical control	G 1/2 6 / 2346
Tree area		Spot elevation	2653-5
Tree line		Photo point	61

DIP & STRIKE	36
ANTICLINE	
SYNCLINE	
FAULT	
COAL SEAM	

SCALE 1:5,000

METRES 100 0 200 400 600 800 METRES

CONTOUR INTERVAL: 5 METRES
DATE OF PHOTOGRAPHY: SEPT 8, 1975
DATE OF MAPPING: MAY 19, 1976

COMPILED BY
burnett resource surveys ltd.

K Sh	SHAFTESBURY FORMATION
K Cm(b)	COMMOTION FORMATION (Boulder Creek Member)
K Cm(h)	COMMOTION FORMATION (Hartcross Member)
K Cm(g)	COMMOTION FORMATION (Gates Member)
K Mb	MOOSEBAR FORMATION
K Gi	GETHING FORMATION
K Cd	CADOMIN FORMATION
K Nk	NIKANASSIN FORMATION

SURVEY NOTE

The Horizontal and Vertical Co-ordinates were established by Burnett Resource Surveys Ltd. (Vancouver, B.C.) under the supervision of D.H. Burnett, P.Eng., B.C.L.S., using MRA3 Tellurometers and DKM2A Theodolites. Horizontal Co-ordinates are derived from Trig. Station Mt. Gorman (2375) Lat. 54° 10' 43.715" Long. 120° 00' 07.218", which is within the same trig. network as Gutnette E. (2374) Lat. 54° 51' 30.330" Long. 120° 52' 38.310". Elevations are above Mean Sea Level and derived from Trig. Station Mt. Gorman, elev. = 2350.2m and where established by trig. levelling, vertical angles being read at both ends of each course simultaneously. The Field Survey was made between September 5 and September 30, 1975.

PR-SAXON 76 (W)B

DENISON COAL LIMITED
(COAL DIVISION)
CALGARY ALBERTA

SAXON COAL LTD.
SAXON EAST
DETAIL GEOLOGY
A - 9

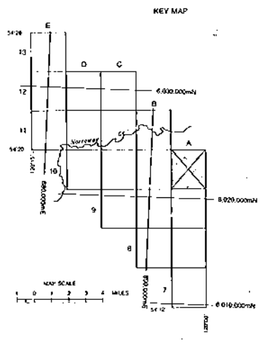
DRAWN BY: D.W.	DATE: MAY 26, 1976	SCALE: 1:5,000
APPROVED BY: G.J. Jones	DRAWING No: SXON 76 - 0706 - R01	
PREPARED BY: M.D.	DATE: Dec 76	

627

PHOTO REDUCED SCALE
1 — 10,000

Duplicate

KEY MAP



LEGEND

Improved road	River
Secondary road	Stream
Track or trail	Intermittent stream
Railway	Swamp
Fence	Contours
Wall	Horizontal control
Cut line	Vertical control
Tree area	Spot elevation
Tree line	Photo point

DIP & STRIKE	
ANTICLINE	
SYNCLINE	
FAULT	
COAL SEAM	

SCALE 1:5,000

METRES 100 0 200 400 600 800 METRES

CONTOUR INTERVAL: 5 METRES
DATE OF PHOTOGRAPHY: SEPT. 6, 1975
DATE OF MAPPING: MAY 19, 1976

COMPILED BY
burnett resource surveys ltd.

K Sh	SHAFTESBURY FORMATION
K Cm(b)	COMMOTION FORMATION (Boulder Creek Member)
K Cm(h)	COMMOTION FORMATION (Hulcross Member)
K Cm(g)	COMMOTION FORMATION (Gates Member)
K Mb	MOOSEBAR FORMATION
K Gt	GETHING FORMATION
K Cd	CADOMIN FORMATION
K Nk	NIKANASSIN FORMATION

SURVEY NOTE

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627

PR-SAXON 76 (2) A

DENISON COAL LIMITED
(COAL DIVISION)
CALGARY ALBERTA

SAXON COAL LTD.
SAXON EAST
DETAIL GEOLOGY
A - 10'

DRAWN BY: D.W.	DATE - MAY 26, 1976 SCALE 1:5,000
APPROVED BY: G.J. Jones	DRAWING No: SXON 76-0706-R01
PREPARED BY: N.D.	DATE: Dec. 76

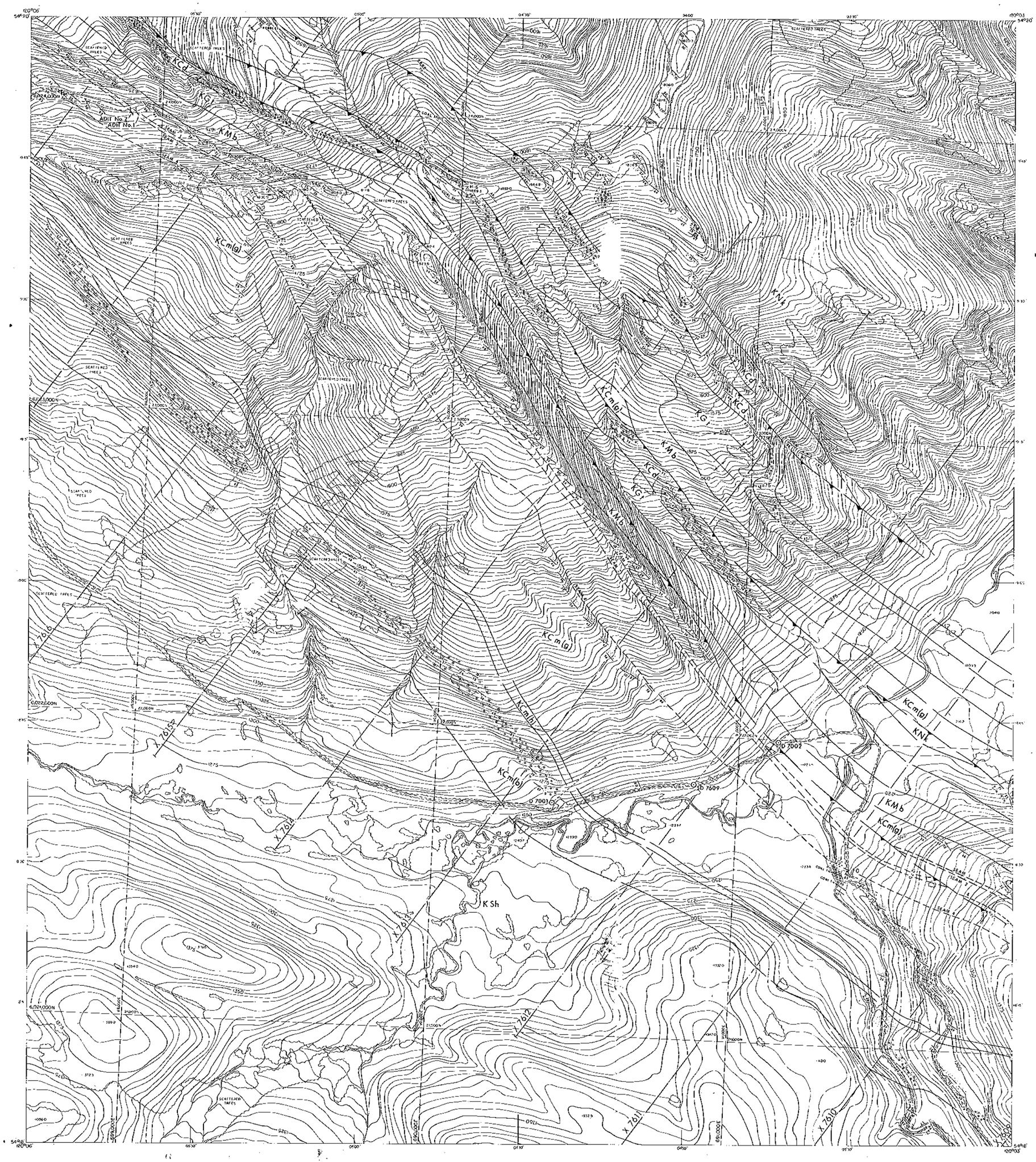
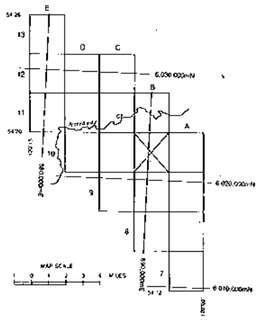


PHOTO REDUCED SCALE
1 — 10,000

Duplicate

KEY MAP



LEGEND

Improved road
Secondary road
Track or trail
Railway
Fence
Wall
Cut line
Tree area
Tree line
River
Stream
Intermittent stream
Swamp
Contours
Horizontal control
Vertical control
Spot elevation
Photo point
DIP & STRIKE
ANTICLINE
SYNCLINE
FAULT
COAL SEAM

SCALE 1:5,000

METRES 100 0 200 400 600 800 METRES

CONTOUR INTERVAL: 5 METRES
DATE OF PHOTOGRAPHY: SEPT. 6, 1975
DATE OF MAPPING: MAY 19, 1976

COMPILED BY
burnett resource surveys ltd.

K Sh	SHAFTESBURY FORMATION
K Cm(b)	COMMOTION FORMATION (Boulder Creek Member)
K Cm(h)	COMMOTION FORMATION (Hulcross Member)
K Cm(g)	COMMOTION FORMATION (Gates Member)
K Mb	MOOSEBAR FORMATION
K Gf	GETHING FORMATION
K Cd	CADOMIN FORMATION
K Nk	NIKANASSIN FORMATION

SURVEY NOTE

The Horizontal and Vertical Co-ordinates were established by Burnett Resource Surveys Ltd. (Vancouver, B.C.) under the supervision of G.H. Burnett, P.Eng., B.C.L.S., using MRA3 Tellurometers and DKM2A Theodolites. Horizontal Co-ordinates are derived from Trig. Station Mt. Gorman (2379) Lat. 54° 10' 43.715" Long. 120° 00' 07.218", which is within the same trig. network as Quinlella E. (2374) Lat. 54° 51' 30.330" Long. 120° 52' 38.310". Elevations are above Mean Sea Level and derived from Trig. Station Mt. Gorman, elev. = 2380.2m and where established by trig. levelling, vertical angles being read at both ends of each course simultaneously. The Field Survey was made between September 5 and September 30, 1975.

DENISON COAL LIMITED
(COAL DIVISION)
CALGARY ALBERTA

SAXON COAL LTD.
SAXON EAST
DETAIL GEOLOGY
8-10

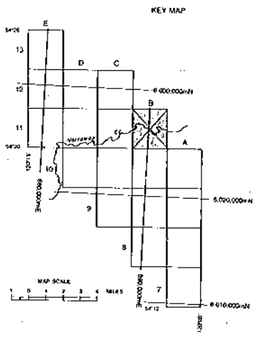
DRAWN BY: DM	DATE: MAY 26, 1976	SCALE: 1:5,000
APPROVED BY: GJ Ross	DRAWING No: SXON 76-0706-R01	
PREPARED BY: MD	DATE: Dec '76	

627 PR- 2X SXN 76 (2) A.

PHOTO REDUCED SCALE
1 — 10,000

Duplicate

KEY MAP



LEGEND

Improved road	River	DIP & STRIKE	36
Secondary road	Stream	ANTICLINE	
Track or trail	Intermittent stream	SYNCLINE	
Railway	Swamp	FAULT	
Fence	Contours	COAL SEAM	
Wall	Horizontal control		
Cut line	Vertical control		
Tree area	Spot elevation		
Tree line	Photo point		

SCALE 1:5,000

METRES 100 0 200 400 600 800 METRES

CONTOUR INTERVAL: 5 METRES
DATE OF PHOTOGRAPHY: SEPT. 6, 1975
DATE OF MAPPING: MAY 19, 1976

COMPILED BY
burnett resource surveys ltd.

K Sh	SHAFTESBURY FORMATION
K Cm(b)	COMMOTION FORMATION (Boulder Creek Member)
K Cm(h)	COMMOTION FORMATION (Hulcross Member)
K Cm(g)	COMMOTION FORMATION (Gates Member)
K Mb	MOOSEBAR FORMATION
K Gt	GETHING FORMATION
K Cd	CADOMIN FORMATION
K Nk	NIKANASSIN FORMATION

SURVEY NOTE

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627

PR-SAXON 763(2)

DENISON COAL LIMITED
(COAL DIVISION)
CALGARY ALBERTA

SAXON COAL LTD.
SAXON EAST
DETAIL GEOLOGY

DRAWN BY:	DATE: MAY 26, 1976	SCALE: 1:5,000
APPROVED BY:	DRAWING No: SXON 76-0706-R01	
PREPARED BY:	DATE: Dec 76	

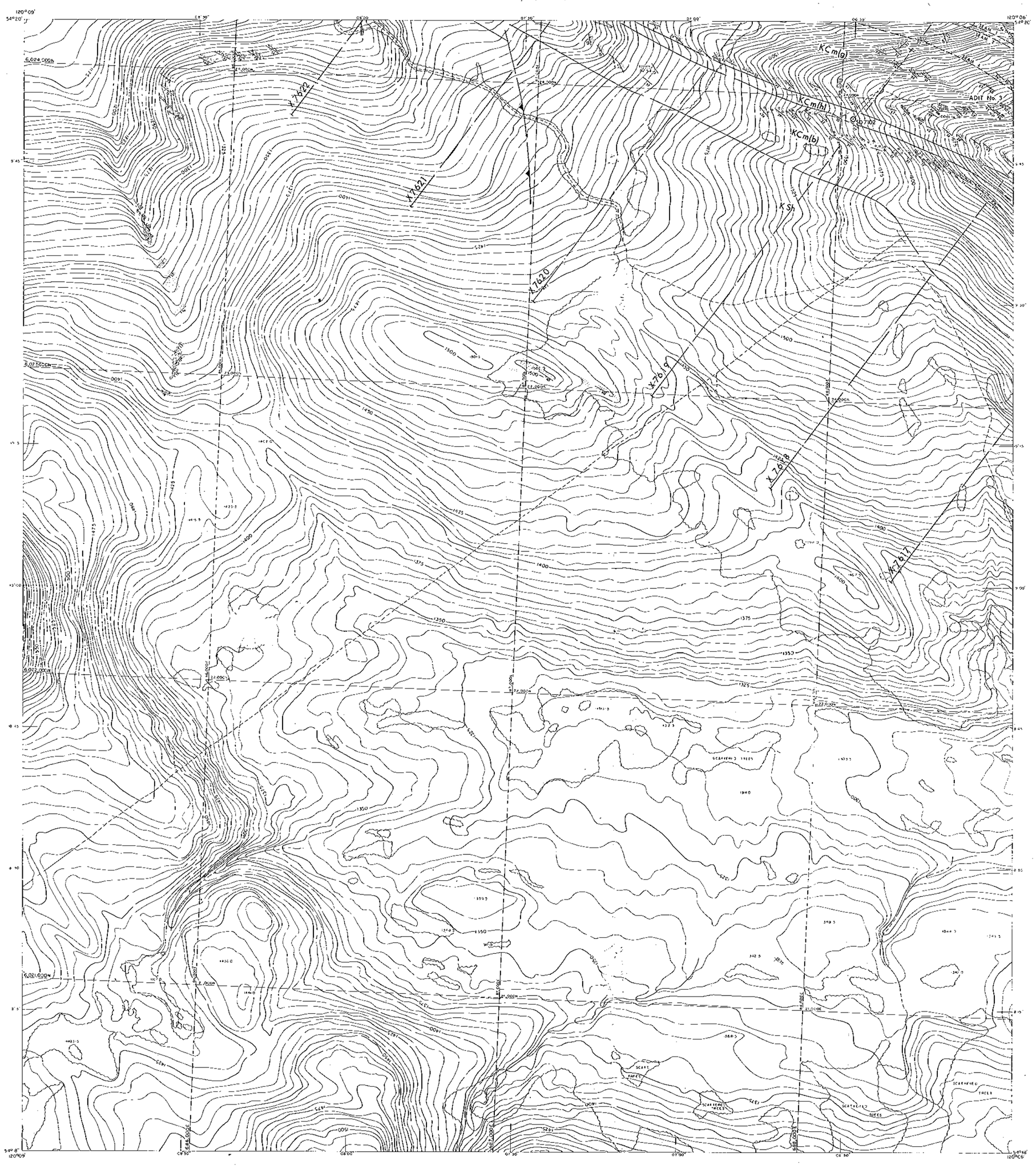
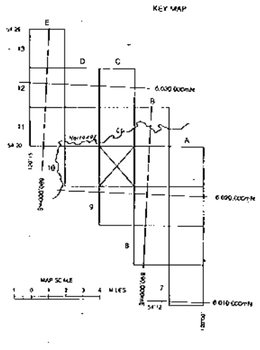


PHOTO REDUCED SCALE
1 — 10,000

duplicate

KEY MAP



LEGEND

Improved road	River	DIP & STRIKE	36
Secondary road	Stream	ANTICLINE	
Track or trail	Intermittent stream	SYNCLINE	
Railway	Swamp	FAULT	
Fence	Contours	COAL SEAM	
Wall	Horizontal control		
Cut line	Vertical control		
Tree area	Spot elevation		
Tree line	Photo point		

SCALE 1:5,000

METRES 100 0 200 400 600 800 METRES

CONTOUR INTERVAL: 5 METRES
DATE OF PHOTOGRAPHY: SEPT. 8, 1975
DATE OF MAPPING: MAY 19, 1978

COMPILED BY
burnett resource surveys ltd.

K Sh	SHAFTESBURY FORMATION
K Cmb	COMMOTION FORMATION (Boulder Creek Member)
K Cmh	COMMOTION FORMATION (Hillcross Member)
K Cmg	COMMOTION FORMATION (Gates Member)
K Mb	MOOSEBAR FORMATION
K Gf	GETHING FORMATION
K Cd	CADOMIN FORMATION
K Nk	NIKANASSIN FORMATION

SURVEY NOTE

The Horizontal and Vertical Co-ordinates were established by Burnett Resource Surveys Ltd. (Vancouver, B.C.) under the supervision of D.H. Burnett, P.Eng., B.C.L.S., using MRA3 Tellurometers and DKM2A Theodolites. Horizontal Co-ordinates are derived from Trig. Station Mt. Gorman (2379) Lat. 54° 10' 43.715" Long. 120° 00' 07.218", which is within the same trig. network as Quinlette E. (2374) Lat. 54° 51' 30.330" Long. 120° 52' 38.310". Elevations are above Mean Sea Level and derived from Trig. Station Mt. Gorman, elev. = 2380.2m and where established by trig levelling, vertical angles being read at both ends of each course simultaneously. The Field Survey was made between September 5 and September 30, 1976.

DENISON COAL LIMITED
(COAL DIVISION)
CALGARY ALBERTA

SAXON COAL LTD.
SAXON EAST
DETAIL GEOLOGY
C - 10

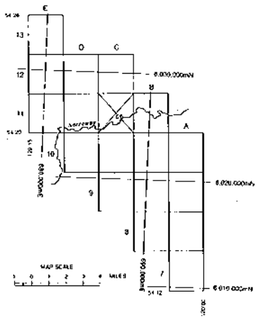
DRAWN BY: DW	DATE: MAY 26, 1976	SCALE: 1:5,000
APPROVED BY: G.J. Gwyn	DRAWING No: SXON 76-0706-R01	
PREPARED BY: ND	DATE: Dec 76	

627

PL-SAXON 76 (2)A

PHOTO REDUCED SCALE
1 — 10,000

KEY MAP



LEGEND

Improved road	River
Secondary road	Stream
Track or trail	Intermittent stream
Railway	Swamp
Fence	Contours
Wall	Horizontal control
Cut line	Vertical control
Tree area	Spot elevation
Tree line	Photo point

DIP & STRIKE	36
ANTICLINE	
SYNCLINE	
FAULT	
COAL SEAM	

SCALE 1:5,000

METRES 100 0 200 400 600 800 METRES

CONTOUR INTERVAL: 5 METRES
DATE OF PHOTOGRAPHY: SEPT 6, 1975
DATE OF MAPPING: MAY 19, 1976

COMPILED BY
burnett resource surveys ltd.

K Sh	SHAFTESBURY FORMATION
K Cm(b)	COMMOTION FORMATION (Boulder Creek Member)
K Cm(h)	COMMOTION FORMATION (Hulcross Member)
K Cm(g)	COMMOTION FORMATION (Gales Member)
K Mb	MOOSEBAR FORMATION
K Gt	GETHING FORMATION
K Cd	CADOMIN FORMATION
K Nk	NIKANASSIN FORMATION

SURVEY NOTE

The Horizontal and Vertical Co-ordinates were established by Burnett Resource Surveys Ltd. (Vancouver, B.C.) under the supervision of D.H. Burnett, P.Eng., B.C.L.S., using MRA3 Tellurometers and DKM2A Theodolites. Horizontal Co-ordinates are derived from Trig. Station Mt. Gorman (2379) Lat. 54° 10' 43.715" Long. 120° 00' 07.218", which is within the same trig. network as Quintette E. (2374) Lat. 54° 51' 30.339" Long. 120° 52' 38.310'. Elevations are above Mean Sea Level and derived from Trig. Station Mt. Gorman, elev. = 2380.2m and where established by trig. levelling, vertical angles being read at both ends of each course simultaneously. The Field Survey was made between September 5 and September 30, 1975.

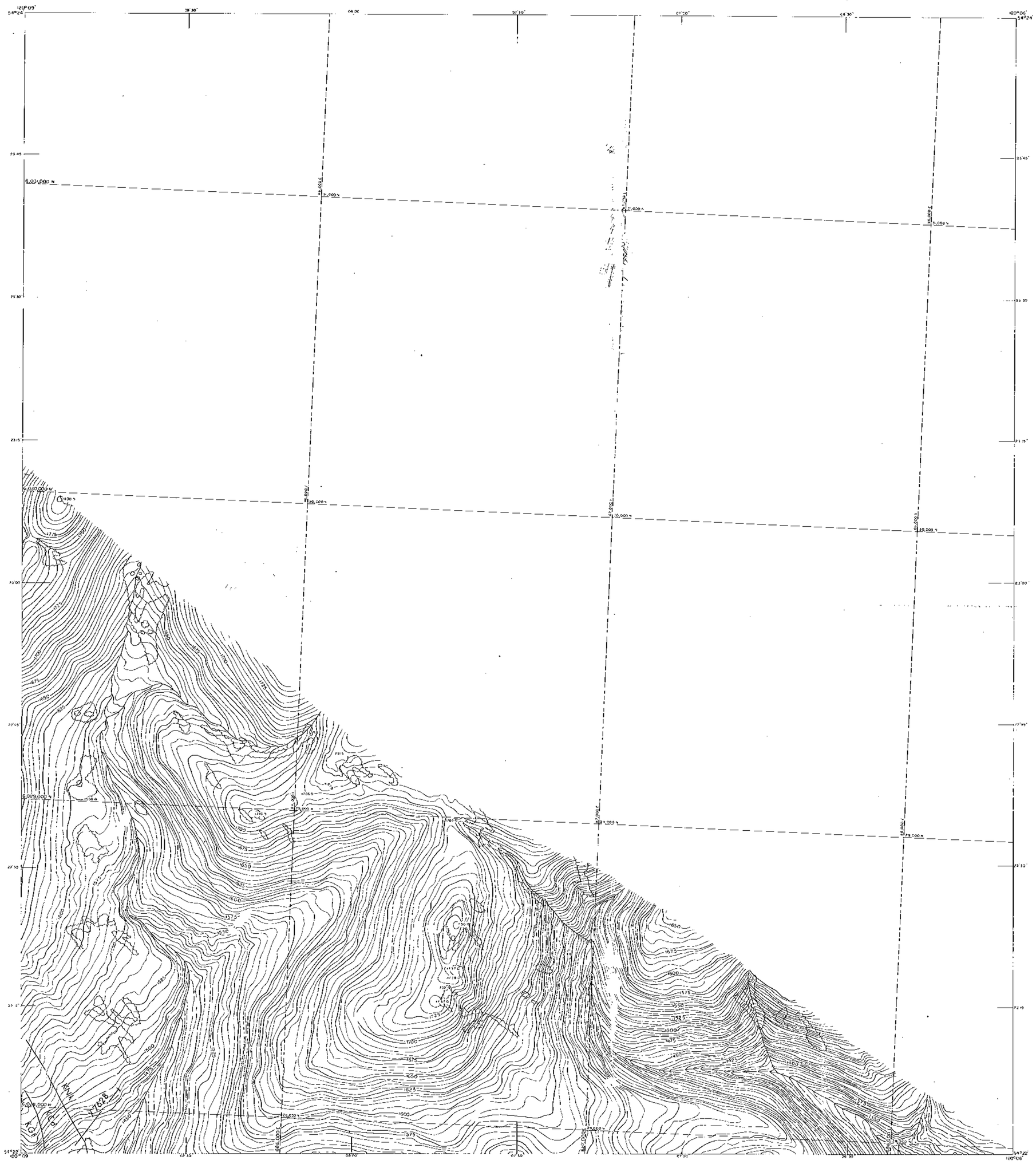
PR-SAXON 76(2)A.

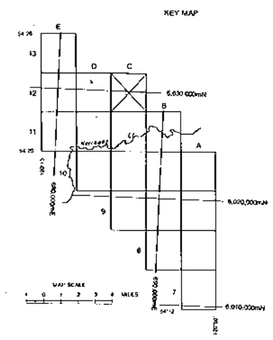
DENISON COAL LIMITED
(COAL DIVISION)
CALGARY ALBERTA

SAXON COAL LTD.
SAXON EAST
DETAIL GEOLOGY
C-11

DRAWN BY: D.N.	DATE: MAY 26, 1976	SCALE: 1:5,000
APPROVED BY: G.J. Jan 77	DRAWING No: SXON 76-0706-801	
PREPARED BY: H.D.	DATE: Dec. 76	

627





LEGEND

Improved road	River	DIP & STRIKE	36
Secondary road	Stream	ANTICLINE	
Track or trail	Intermittent stream	SYNCLINE	
Railway	Swamp	FAULT	
Fence	Contours	COAL SEAM	
Wall	Horizontal control		
Cut line	Vertical control		
Tree area	Spot elevation		
Tree line	Photo point		

SCALE 1:5,000

METRES 100 0 200 400 600 800 METRES

CONTOUR INTERVAL: 5 METRES
DATE OF PHOTOGRAPHY: SEPT. 6, 1975
DATE OF MAPPING: MAY 19, 1976

COMPILED BY
bennett resource surveys ltd.

K Sh	SHAFTESBURY FORMATION
K Cmtb	COMMOTION FORMATION (Boulder Creek Member)
K Cmth	COMMOTION FORMATION (Hulcross Member)
K Cmtg	COMMOTION FORMATION (Gates Member)
K Mb	MOOSEBAR FORMATION
K Gt	GETHING FORMATION
K Cd	CADOMIN FORMATION
K Nk	NIKANASSIN FORMATION

SURVEY NOTE

The Horizontal and Vertical Co-ordinates were established by Bennett Resource Surveys Ltd. (Vancouver, B.C.) under the supervision of D.H. Bennett, P.Eng., B.C.L.S., using MRA3 Tellurometers and DKM2A Theodolites. Horizontal Co-ordinates are derived from Trig. Station Mt. Gorman (2373) Lat. 54° 10' 43.715" Long. 120° 09' 07.218", which is within the same trig. network as Quintette E. (2374) Lat. 54° 51' 30.938" Long. 120° 52' 39.310". Elevations are above Mean Sea Level and derived from Trig. Station Mt. Gorman, elev. = 2380.2m and where established by trig. levelling, vertical angles being read at both ends of each course simultaneously. The Field Survey was made between September 5 and September 30, 1975.

PHOTO REDUCED SCALE 1 — 10,000

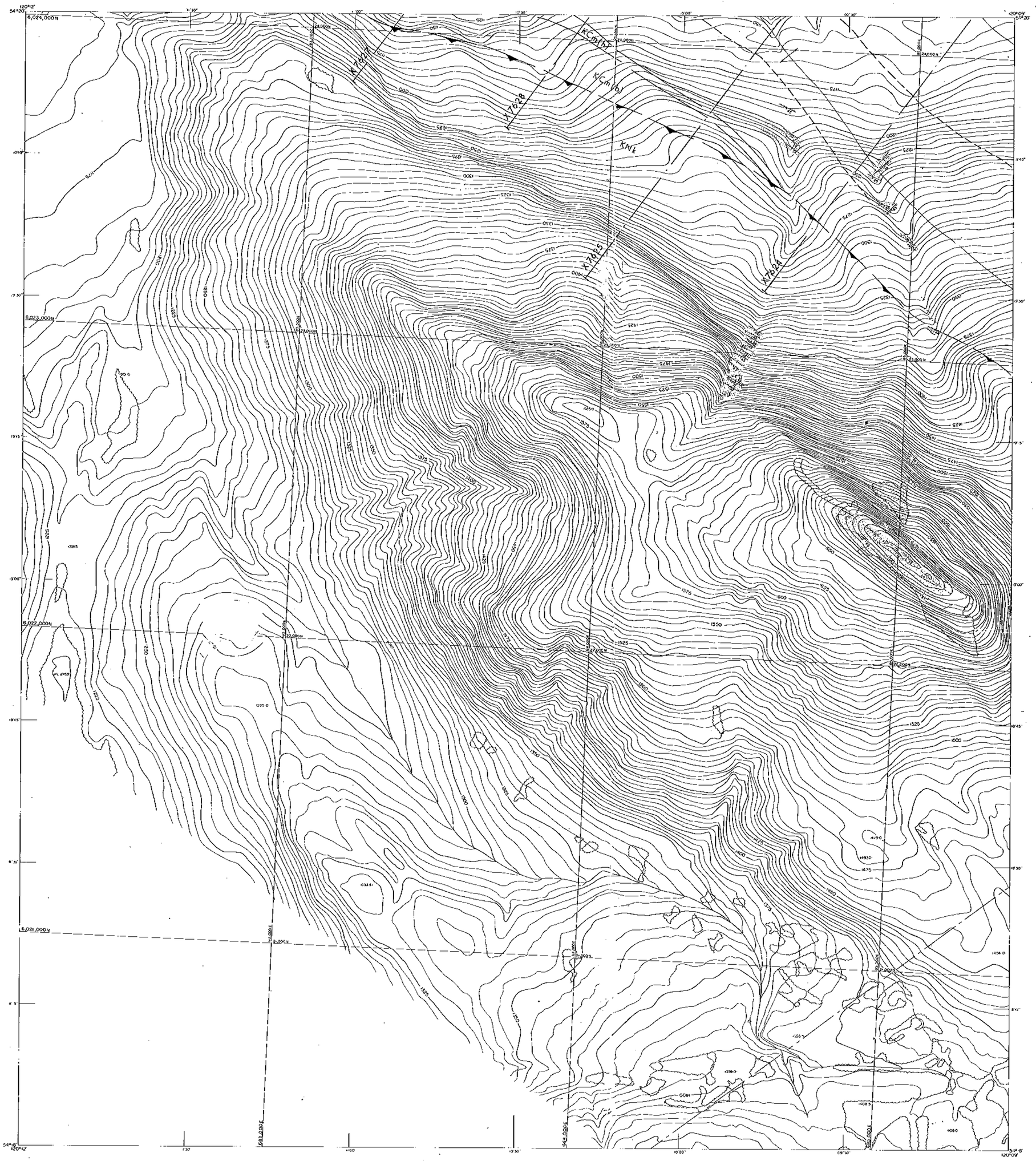
DENISON COAL LIMITED
(COAL DIVISION)
CALGARY ALBERTA

SAXON WEST
SAXON COAL LTD.
Sheet Number C-12

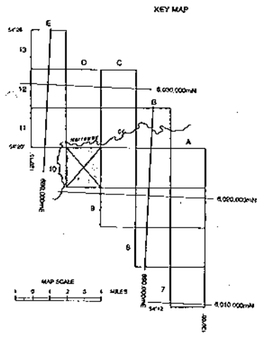
DETAIL GEOLOGY

DRAWN BY: L.H.B.	DATE: MAY 26, 1976	SCALE: 1:5,000
APPROVED BY: C.J.	DRAWING No: SWH 76-0706-R01	

PR-SAXON 740



KEY MAP



LEGEND

Improved road	River
Secondary road	Stream
Track or trail	Intermittent stream
Railway	Swamp
Fence	Contours 2100
Wall	Horizontal control H-12
Cut line	Vertical control V-6 2396
Tree area	Spot elevation 2636
Tree line	Photo point

DIP & STRIKE	36
ANTICLINE	
SYNCLINE	
FAULT	
COAL SEAM	

SCALE 1:5,000

METRES 100 0 200 400 600 800 METRES

CONTOUR INTERVAL: 5 METRES
DATE OF PHOTOGRAPHY: SEPT. 6, 1975
DATE OF MAPPING: MAY 19, 1976

COMPILED BY
burnett resource surveys ltd.

K Sh	SHAFTESBURY FORMATION
K Cm(b)	COMMOTION FORMATION (Boulder Creek Member)
K Cm(h)	COMMOTION FORMATION (Hulcross Member)
K Cm(g)	COMMOTION FORMATION (Gates Member)
K Mb	MOOSEBAR FORMATION
K Gf	GETHING FORMATION
K Cd	CADOMIN FORMATION
K Nk	NIKANASSIN FORMATION

SURVEY NOTE

The Horizontal and Vertical Co-ordinates were established by Burnett Resource Surveys Ltd. (Vancouver, B.C.) under the supervision of D.H. Burnett, P.Eng., B.C.L.S., using NRA3 Tellurometers and DKM2A Theodolites. Horizontal Co-ordinates are derived from Trig. Station Mt. Gormen (2375) Lat. 54° 10' 43.715" Long. 120° 00' 07.218", which is within the same trig. network as Quintette E. (2374) Lat. 54° 51' 30.339" Long. 120° 52' 38.310". Elevations are above Mean Sea Level and derived from Trig. Station Mt. Gormen, elev. = 2380.2m and where established by trig. levelling, vertical angles being read at both ends of each course simultaneously. The Field Survey was made between September 5 and September 30, 1975.

627

PHOTO REDUCED SCALE 1 — 10,000

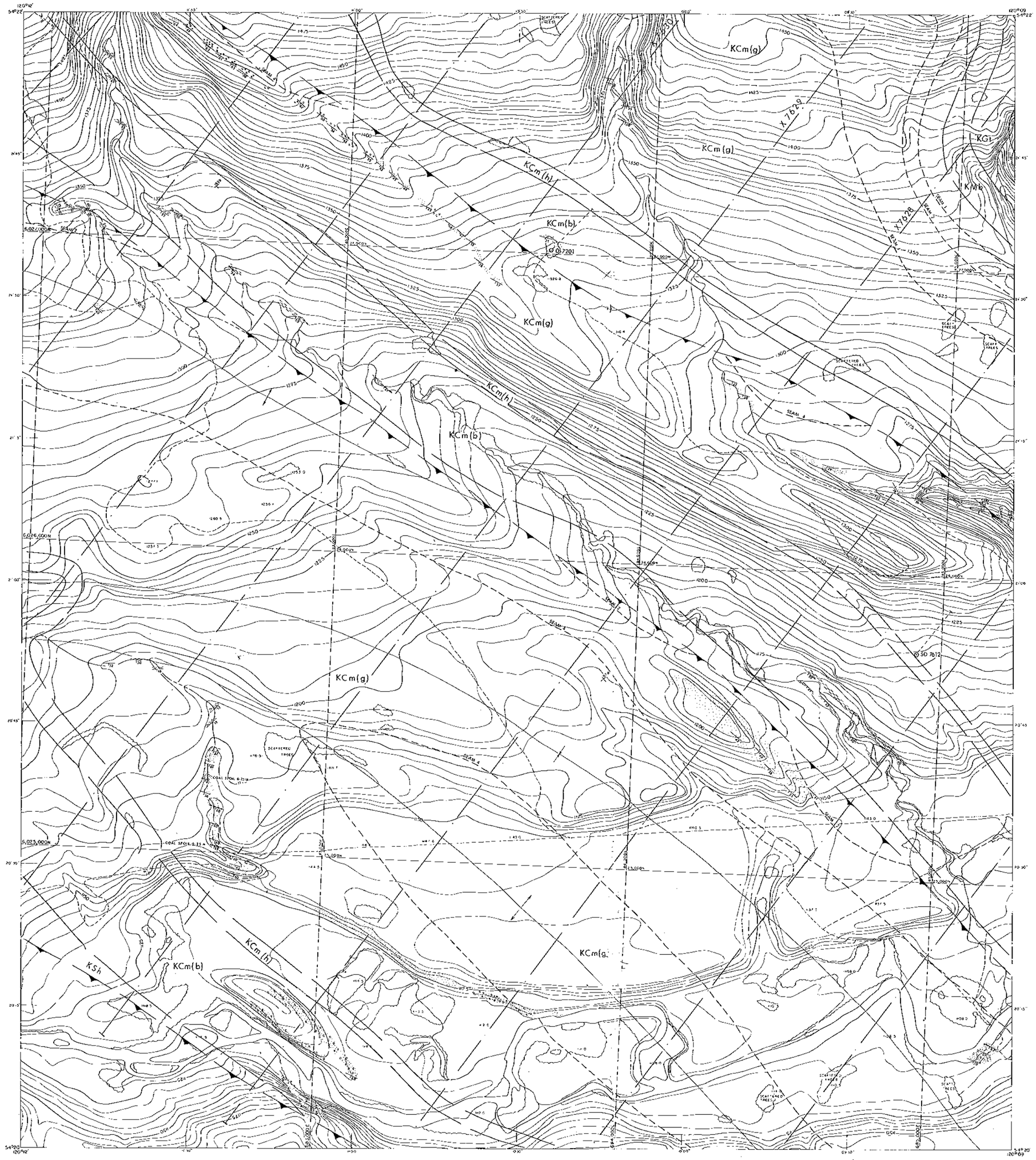
DENISON COAL LIMITED
(COAL DIVISION)
CALGARY ALBERTA

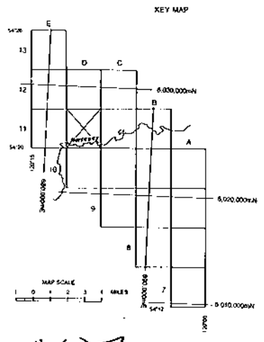
SAXON WEST
SAXON COAL LTD.
SN41 Number D-10

DETAIL GEOLOGY

DRAWN BY: L. N'B	DATE: MAY 26, 1976	SCALE: 1:5,000
APPROVED BY: G.J.	DRAWING No: SAON 76-0706-201	

PR - SAXON '76 (2) A.





#627

PHOTO REDUCED SCALE 1 — 10,000

LEGEND

Improved road	River
Secondary road	Stream
Track or trail	Intermittent stream
Railway	Swamp
Fence	Contours
Wall	Horizontal control
Cut line	Vertical control
Tree area	Spot elevation
Tree line	Photo point

DIP & STRIKE	36
ANTICLINE	
SYNCLINE	
FAULT	
COAL SEAM	

SCALE 1:5,000

METRES 100 0 200 400 600 800 METRES

CONTOUR INTERVAL: 5 METRES
DATE OF PHOTOGRAPHY: SEPT. 6, 1975
DATE OF MAPPING: MAY 19, 1976

COMPILED BY
burnett resource surveys ltd.

K Sh	SHAFTESBURY FORMATION
K Cm(b)	COMMOTION FORMATION (Boulder Creek Member)
K Cm(h)	COMMOTION FORMATION (Hulcross Member)
K Cm(g)	COMMOTION FORMATION (Gates Member)
K Mb	MOOSEBAR FORMATION
K Gt	GETHING FORMATION
K Cd	CADOMIN FORMATION
K Nk	NIKANASSIN FORMATION

SURVEY NOTE

The Horizontal and Vertical Co-ordinates were established by Burnett Resource Surveys Ltd. (Vancouver, B.C.) under the supervision of D.H. Burnett, P.Eng., B.C.L.S., using MRA3 Tellurometers and DKM2A Theodolites. Horizontal Co-ordinates are derived from Trig. Station Mt. Gorman (2379) Lat. 54° 10' 43.715" Long. 120° 00' 07.218", which is within the same trig. network as Quintette E. (2374) Lat. 54° 51' 30.330" Long. 120° 52' 38.310". Elevations are above Mean Sea Level and derived from Trig. Station Mt. Gorman, elev. = 2380.2m and where established by trig. levelling, vertical angles being read at both ends of each course simultaneously. The Field Survey was made between September 5 and September 30, 1975.

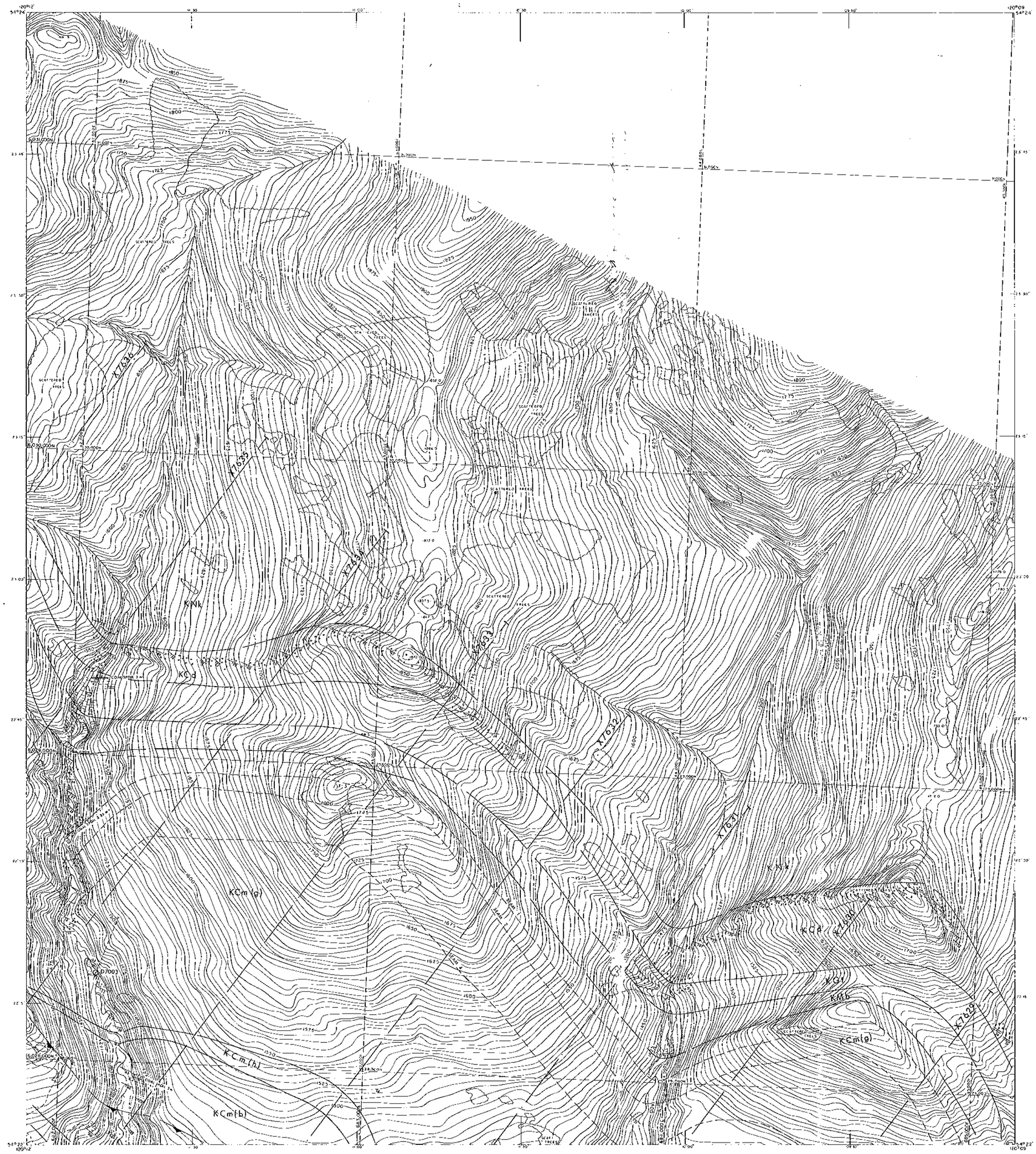
DENISON COAL LIMITED
(COAL DIVISION)
CALGARY ALBERTA

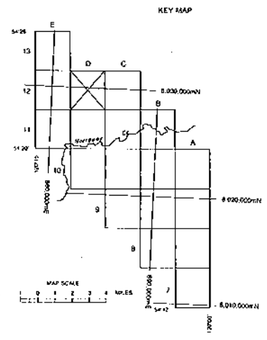
SAXON WEST
SAXON COAL LTD.
Sheet Number 0-11

DETAIL GEOLOGY

DRAWN BY: L H B	DATE: MAY 26, 1976	SCALE: 1:5,000
APPROVED BY: G J	DRAWING No: SAXON 76-0706-R01	

PR-SAXON 76 (2)





LEGEND

Improved road	River
Secondary road	Stream
Track or trail	Intermittent stream
Railway	Swamp
Fence	Contours 2100
Wall	Horizontal control H 42
Cut line	Vertical control V.S. 2346
Free area	Spot elevation 76595
Tree line	Photo point

DIP & STRIKE	36
ANTICLINE	
SYNCLINE	
FAULT	
COAL SEAM	

SCALE 1:5,000

METRES 100 0 200 400 600 800 METRES

CONTOUR INTERVAL: 5 METRES
DATE OF PHOTOGRAPHY: SEPT. 6, 1975
DATE OF MAPPING: MAY 19, 1976

COMPILED BY
burnett resources ltd.

K Sh	SHAFTESBURY FORMATION
K Cm(b)	COMMOTION FORMATION (Boulder Creek Member)
K Cm(h)	COMMOTION FORMATION (Hellcross Member)
K Cm(g)	COMMOTION FORMATION (Gates Member)
K Mb	MOOSEBAR FORMATION
K GI	GETHING FORMATION
K Cd	CADOMIN FORMATION
K Nk	NIKANASSIN FORMATION

SURVEY NOTE

The Horizontal and Vertical Co-ordinates were established by Burnett Resources Surveys Ltd. (Vancouver, B.C.) under the supervision of D.H. Burnett, P.Eng., B.C.L.S., using MRA3 Tellurometers and DKM2A Theodolites. Horizontal Co-ordinates are derived from Trig. Station Mt. Gorman (0279) Lat. 54° 50' 43.715" Long. 120° 00' 07.216", which is within the same trig. network as Quintette E. (2374) Lat. 54° 51' 30.330" Long. 120° 52' 39.310". Elevations are above Mean Sea Level and derived from Trig. Station Mt. Gorman, elev. = 2340.2m and where established by trig. levelling, vertical angles being read at both ends of each course simultaneously. The Field Survey was made between September 5 and September 30, 1975.

PHOTO REDUCED SCALE 1 — 10,000

DENISON COAL LIMITED
(COAL DIVISION)
CALGARY ALBERTA

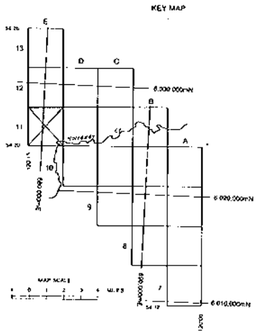
SAXON WEST
SAXON COAL LTD.
Sheet Number 3-12

DETAIL GEOLOGY

DRAWN BY: L M'B	DATE: MAY 26, 1976	SCALE: 1:5,000
APPROVED BY: C.J.	DRAWING No: SXON 76-0706-R01	

PR-SAXON 76 (2)A.

KEY MAP



LEGEND

Improved road	River	DIP & STRIKE	35
Secondary road	Stream	ANTICLINE	
Track or trail	Intermittent stream	SYNCLINE	
Railway	Swamp	FAULT	
Fence	Contours	COAL SEAM	
Wall	Horizontal control		
Cut line	Vertical control		
Tree area	Spot elevation		
Tree line	Photo point		

SCALE 1:5,000

METRES 100 0 200 400 600 800 METRES

CONTOUR INTERVAL: 5 METRES
DATE OF PHOTOGRAPHY: SEPT. 6, 1975
DATE OF MAPPING: MAY 19, 1976

COMPILED BY
burnett resource surveys ltd.

K Sh	SHAFTESBURY FORMATION
K Cm(b)	CORMORANT FORMATION (Boulder Creek Member)
K Cm(h)	CORMORANT FORMATION (Hatchcross Member)
K Cm(g)	CORMORANT FORMATION (Gates Member)
K Mb	MOOSEBAR FORMATION
K Gl	GETHING FORMATION
K Cd	CADOMIN FORMATION
K Nk	NIKANASSIN FORMATION

SURVEY NOTE

The Horizontal and Vertical Co-ordinates were established by Burnett Resource Surveys Ltd. (Vancouver, B.C.) under the supervision of O.H. Burnett, P.Eng., B.C.L.S., using NIKA3 Tellurometers and DKM2A Theodolites. Horizontal Co-ordinates are derived from Trig. Station Mt. Gorman (2379) Lat. 54° 10' 43.715" Long. 120° 00' 07.218", which is within the same trig. network as Quintette E. (2374) Lat. 54° 51' 30.330" Long. 120° 52' 39.310". Elevations are above Mean Sea Level and derived from Trig. Station Mt. Gorman, elev. = 2380.2m and where established by trig. levelling, vertical angles being read at both ends of each course simultaneously. The Field Survey was made between September 5 and September 30, 1975.

PHOTO REDUCED SCALE 1 — 10,000

DENISON COAL LIMITED
(COAL DIVISION)
CALGARY ALBERTA

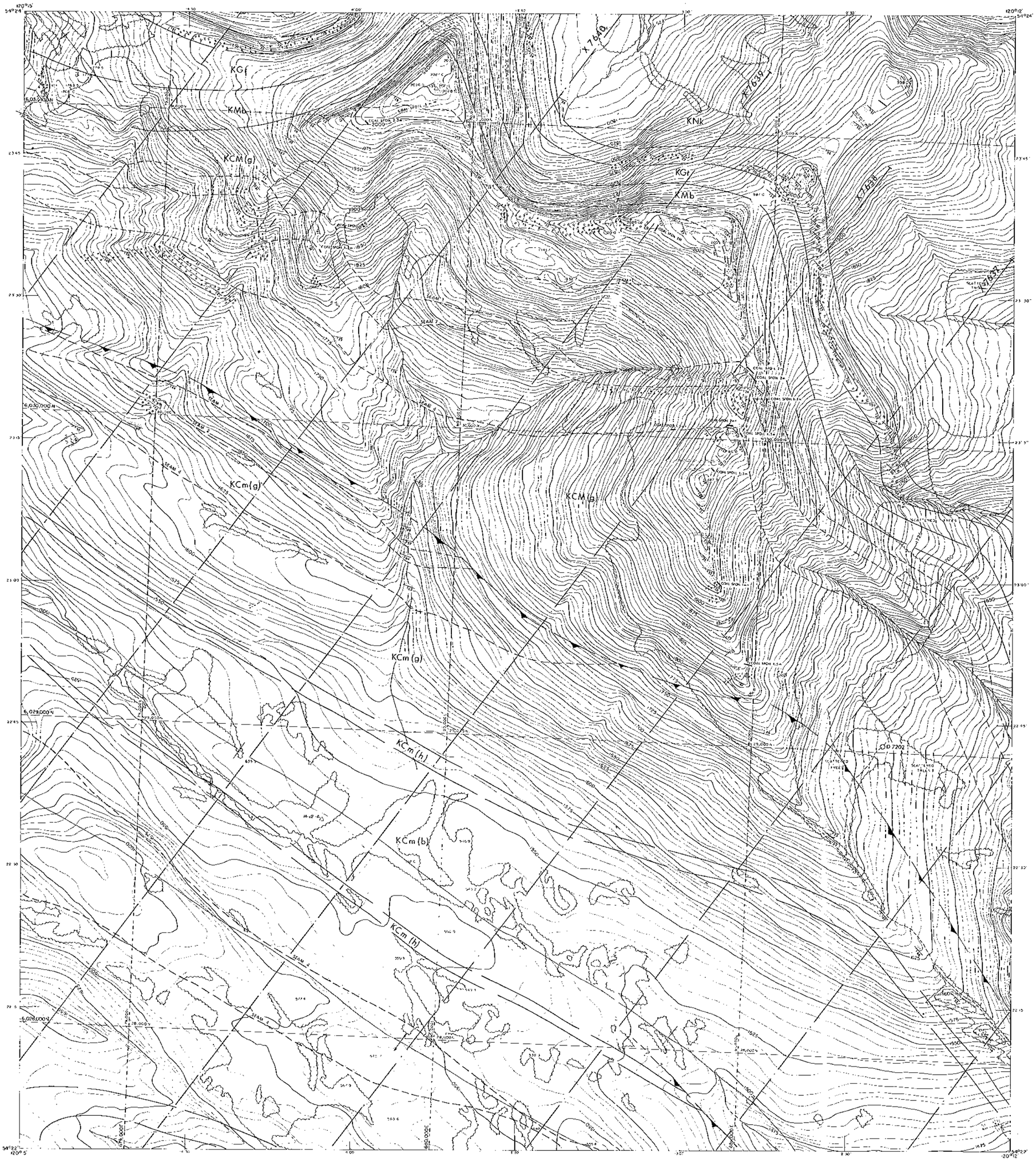
SAXON WEST
SAXON COAL LTD.
Sheet Number E-11

DETAIL GEOLOGY

DRAWN BY: L MTH	DATE: MAY 28, 1976	SCALE: 1:5,000	
APPROVED BY: G.J.	DRAWING No: SXON 76-0706-201		

627

PR-SAXON 76 (2)A.



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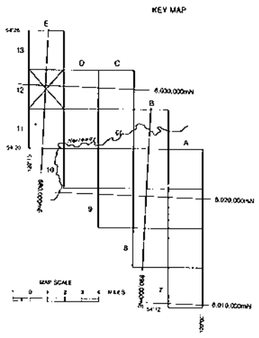

PHOTO REDUCED SCALE 1 — 10,000

LEGEND

- Improved road
- Secondary road
- Track or trail
- Railway
- Fence
- Wall
- Cut line
- Tree area
- Tree line
- River
- Stream
- Intermittent stream
- Swamp
- Contours
- Horizontal control
- Vertical control
- Spot elevation
- Photo point
- DIP & STRIKE
- ANTICLINE
- SYNCLINE
- FAULT
- COAL SEAM

SCALE 1:5,000

METRES 100 0 200 400 600 800 METRES

CONTOUR INTERVAL: 5 METRES
DATE OF PHOTOGRAPHY: SEPT 8, 1975
DATE OF MAPPING: MAY 19, 1976

COMPILED BY
burnett resource surveys ltd.

K Sh	SHAFTESBURY FORMATION
K Cmob	COMMOTION FORMATION (Boulder Creek Member)
K Cmch	COMMOTION FORMATION (Hudcross Member)
K Cmg	COMMOTION FORMATION (Gates Member)
K Mb	MOOSEBAR FORMATION
K Gt	GETHING FORMATION
K Cd	CADOMIN FORMATION
K Nk	NIKANASSIN FORMATION

SURVEY NOTE

The Horizontal and Vertical Co-ordinates were established by Burnett Resource Surveys Ltd. (Vancouver, B.C.) under the supervision of D.H. Burnett, P.Eng., B.C.L.S., using MRA3 Tellurometers and OKM2A Theodolites. Horizontal Co-ordinates are derived from Trig. Station Mt. Gorman (2379) Lat. 54° 10' 43.715" Long. 120° 00' 07.218", which is within the same trig. network as Quintette E. (2374) Lat. 54° 51' 30.330" Long. 120° 52' 38.310". Elevations are above Mean Sea Level and derived from Trig. Station Mt. Gorman, elev. = 2380.2m and were established by trig. levelling, vertical angles being read at both ends of each course simultaneously. The Field Survey was made between September 5 and September 30, 1975.

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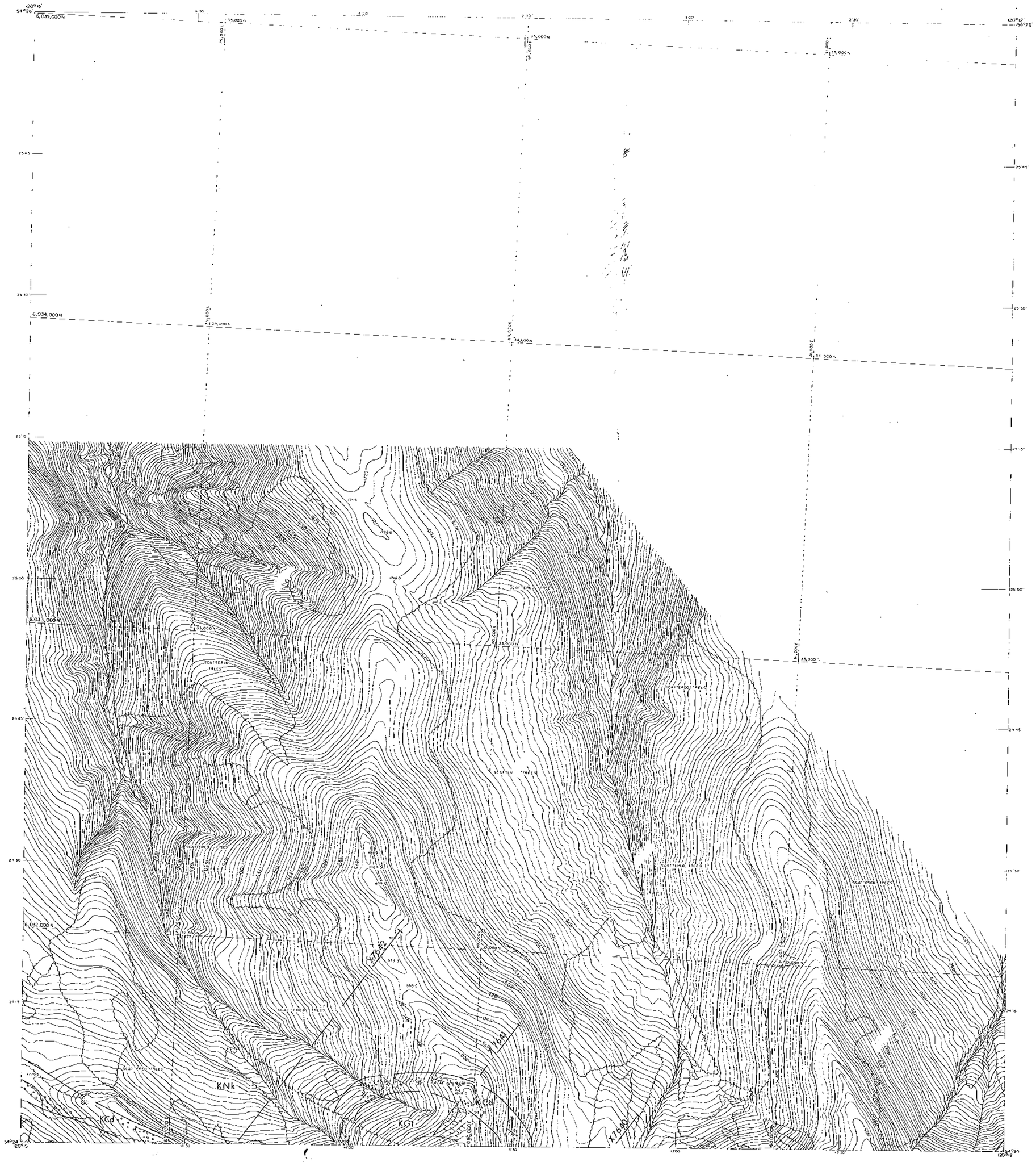
PR- SAXON (ACIA

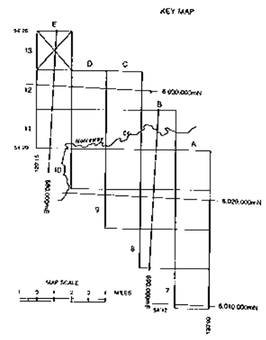
DENISON COAL LIMITED
(COAL DIVISION)
CALGARY ALBERTA

SAXON WEST
SAXON COAL LTD.
Sheet Number E-12

DETAIL GEOLOGY

DRAWN BY: L.M.B	DATE: MAY 26, 1976	SCALE: 1:5,000
APPROVED BY: C.J	DRAWING No: SAXON 76-0706-R01	





LEGEND

Improved road	River
Secondary road	Stream
Track or trail	Intermittent stream
Railway	Swamp
Fence	Contours
Wall	Horizontal control
Cut line	Vertical control
Tree area	Spot elevation
Tree line	Photo point

DIP & STRIKE	36
ANTICLINE	
SYNCLINE	
FAULT	
COAL SEAM	

SCALE 1:5,000

METRES 100 0 200 400 600 800 METRES

CONTOUR INTERVAL: 5 METRES
DATE OF PHOTOGRAPHY: SEPT. 6, 1975
DATE OF MAPPING MAY 19, 1976

COMPILED BY
burnett resource surveys ltd.
ENGINEERS PHOTOGRAMMETRISTS SURVEYORS

K Sh	SHAFTESBURY FORMATION
K Cm(b)	COMMOTION FORMATION (Boulder Creek Member)
K Cm(h)	COMMOTION FORMATION (Hulleross Member)
K Cm(g)	COMMOTION FORMATION (Gates Member)
K Mb	MOOSEBAR FORMATION
K Gt	GETHING FORMATION
K Cd	CADOMIN FORMATION
K Nk	NIKANASSIN FORMATION

SURVEY NOTE

The Horizontal and Vertical Co-ordinates were established by Burnett Resource Surveys Ltd. (Vancouver, B.C.) under the supervision of D.H. Burnett, P.Eng., B.C.L.S., using MRA3 Tellurometers and DKM2A theodolites. Horizontal Co-ordinates are derived from Trig. Station Mt. Gorman (2379) Lat. 54° 10' 43.715" Long. 120° 00' 07.218", which is within the same trig. network as Quinlette E. (2374) Lat. 54° 51' 30.330" Long. 120° 52' 38.310". Elevations are above Mean Sea Level and derived from Trig. Station Mt. Gorman, elev. = 2380.2m and where established by trig. levelling, vertical angles being read at both ends of each course simultaneously. The Field Survey was made between September 5 and September 30, 1975.

PHOTO REDUCED SCALE 1 — 10,000

DENISON COAL LIMITED
(COAL DIVISION)
CALGARY ALBERTA

SAXON WEST
SAXON COAL LTD.
Sheet Number E-13

DETAIL GEOLOGY

DRAWN BY: L H'B	DATE: MAY 28, 1976	SCALE: 1:5,000
APPROVED BY: C J	DRAWING No: SAXON 76-0706-201	

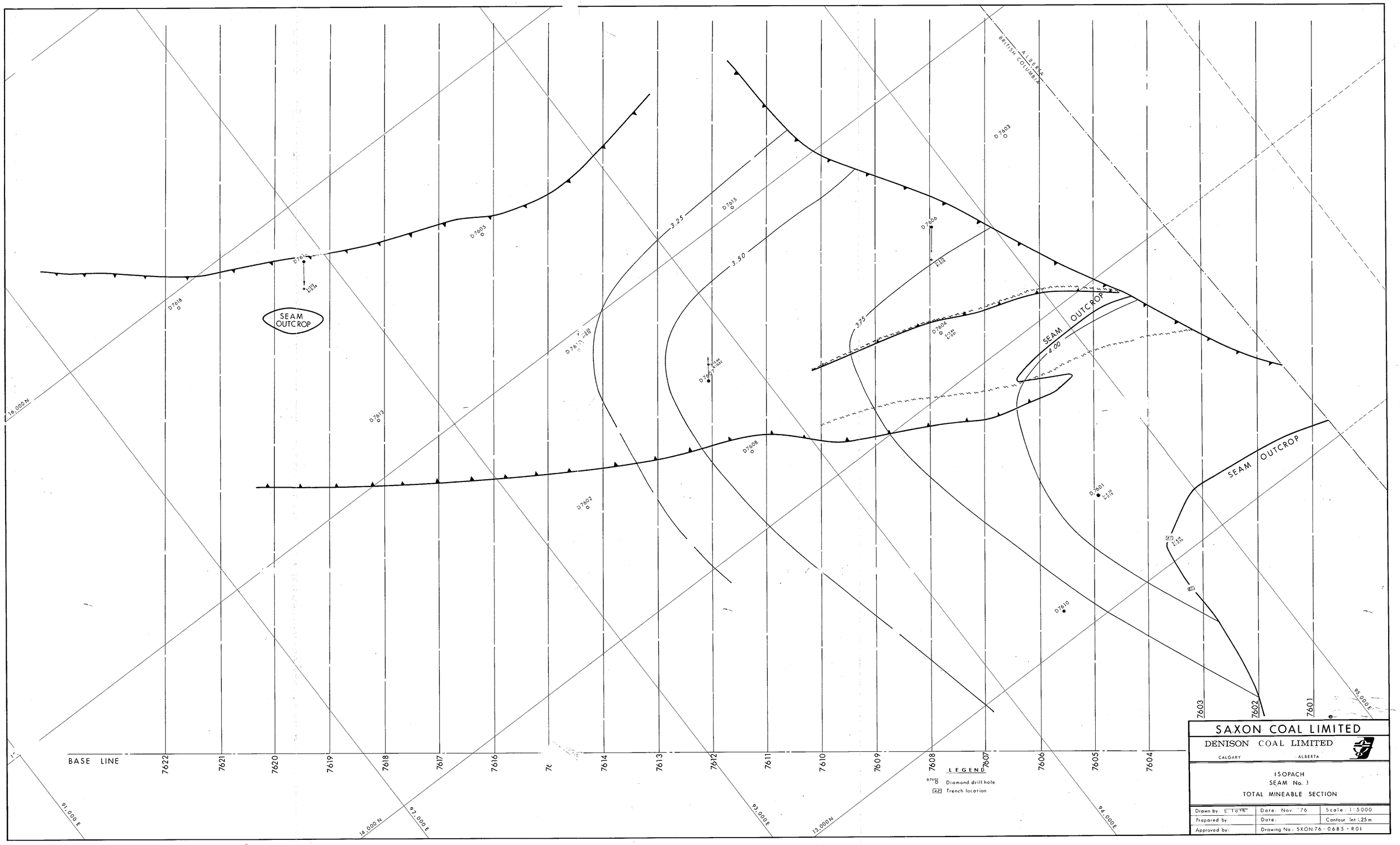
627

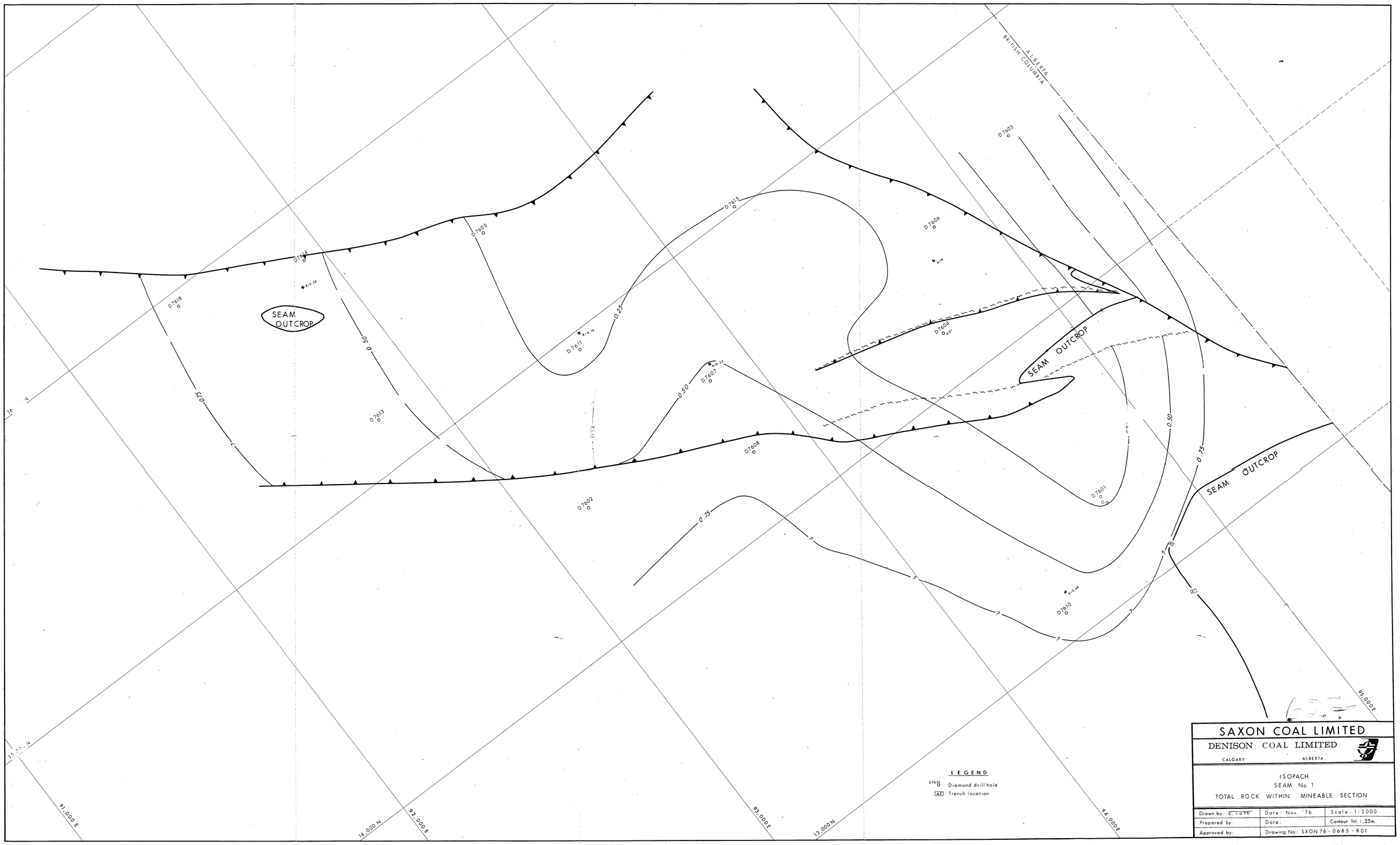
PL- SAXON 76 (2) A

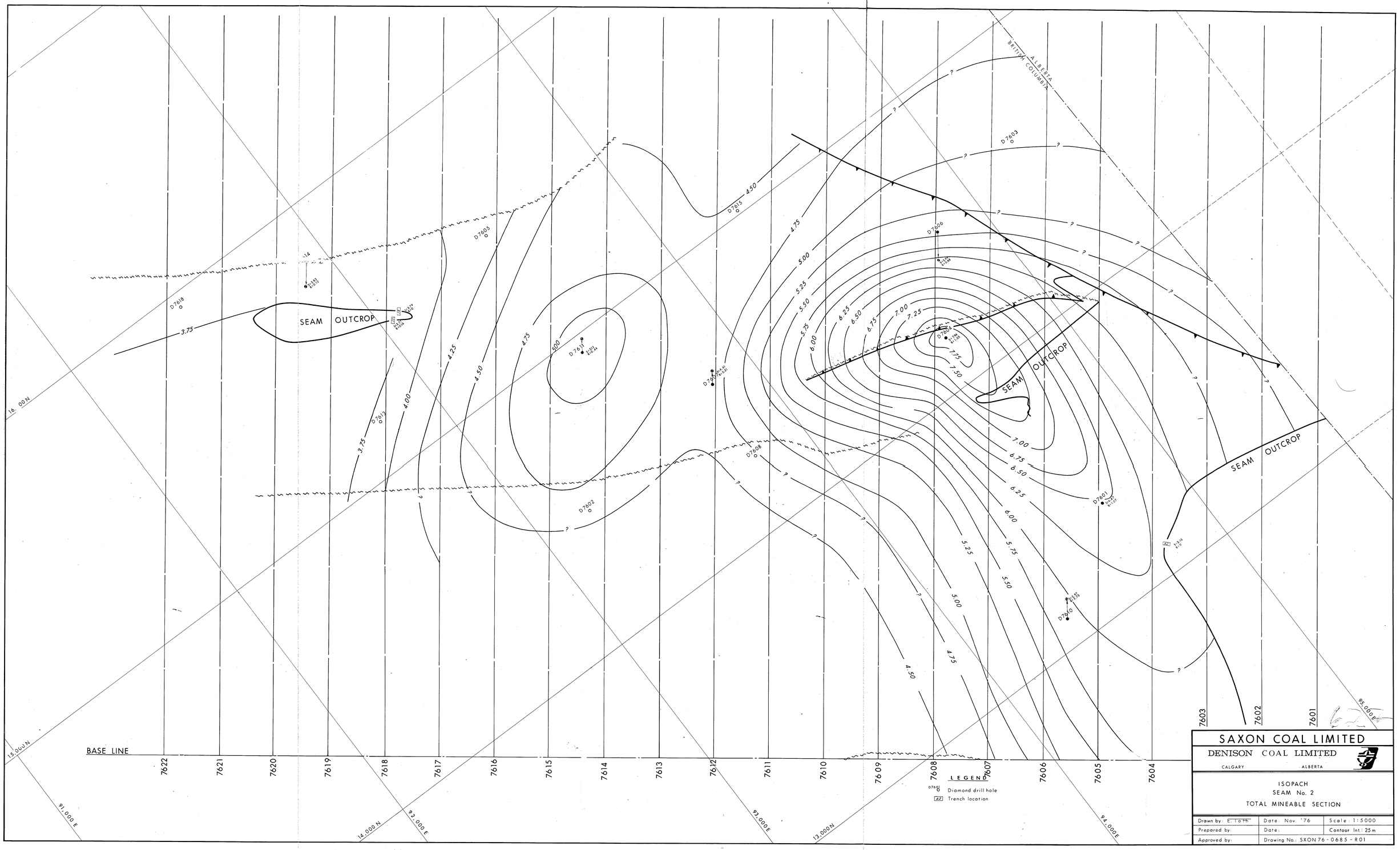
SECTIONS

PR-SAXON-76(5)A-2

(Book B-1)


ALBERTA
BRITISH COLUMBIA
SEAM OUTCROP
SEAM OUTCROP
SEAM OUTCROP
3.25
3.50
3.75
4.00
D7618
D7615
D7605
D7613
D7608
D7602
D7603
D7606
D7604
D7601
D7610
16,000 N
14,000 N
13,000 N
91,000 E
92,000 E
93,000 E
94,000 E
95,000 E
BASE LINE
7622
7621
7620
7619
7618
7617
7616
7614
7613
7612
7611
7610
7609
7608
7607
7606
7605
7604
7603
7602
7601
LEGEND
Diamond drill hole
Trench location
SAXON COAL LIMITED
DENISON COAL LIMITED
CALGARY ALBERTA
ISOPACH
SEAM No. 1
TOTAL MINEABLE SECTION
Drawn by: E. Toth
Date: Nov. '76
Scale: 1:5000
Prepared by:
Date:
Contour Int.: 25m
Approved by:
Drawing No.: SXON 76 - 0685 - R01


ALBERTA
BRITISH COLUMBIA
SEAM OUTCROP
SEAM OUTCROP
SEAM OUTCROP
D7603
D7606
D7604
D7605
D7615
D7618
D7611
D7607
D7613
D7608
D7602
D7601
D7610
0.25
0.50
0.75
0.50
0.75
91,000 E
92,000 E
93,000 E
94,000 E
95,000 E
14,000 N
13,000 N
15,000 N
LEGEND
D7601 Diamond drill hole
Trench location
SAXON COAL LIMITED
DENISON COAL LIMITED
CALGARY ALBERTA
ISOPACH
SEAM No. 1
TOTAL ROCK WITHIN MINEABLE SECTION
Drawn by: E. Toth
Date: Nov. '76
Scale: 1:5000
Prepared by:
Date:
Contour Int.: .25m.
Approved by:
Drawing No.: SXON 76 - 0685 - R01


ALBERTA
BRITISH COLUMBIA
SEAM OUTCROP
SEAM OUTCROP
SEAM OUTCROP
BASE LINE
7622
7621
7620
7619
7618
7617
7616
7615
7614
7613
7612
7611
7610
7609
7608
7607
7606
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15 000 N
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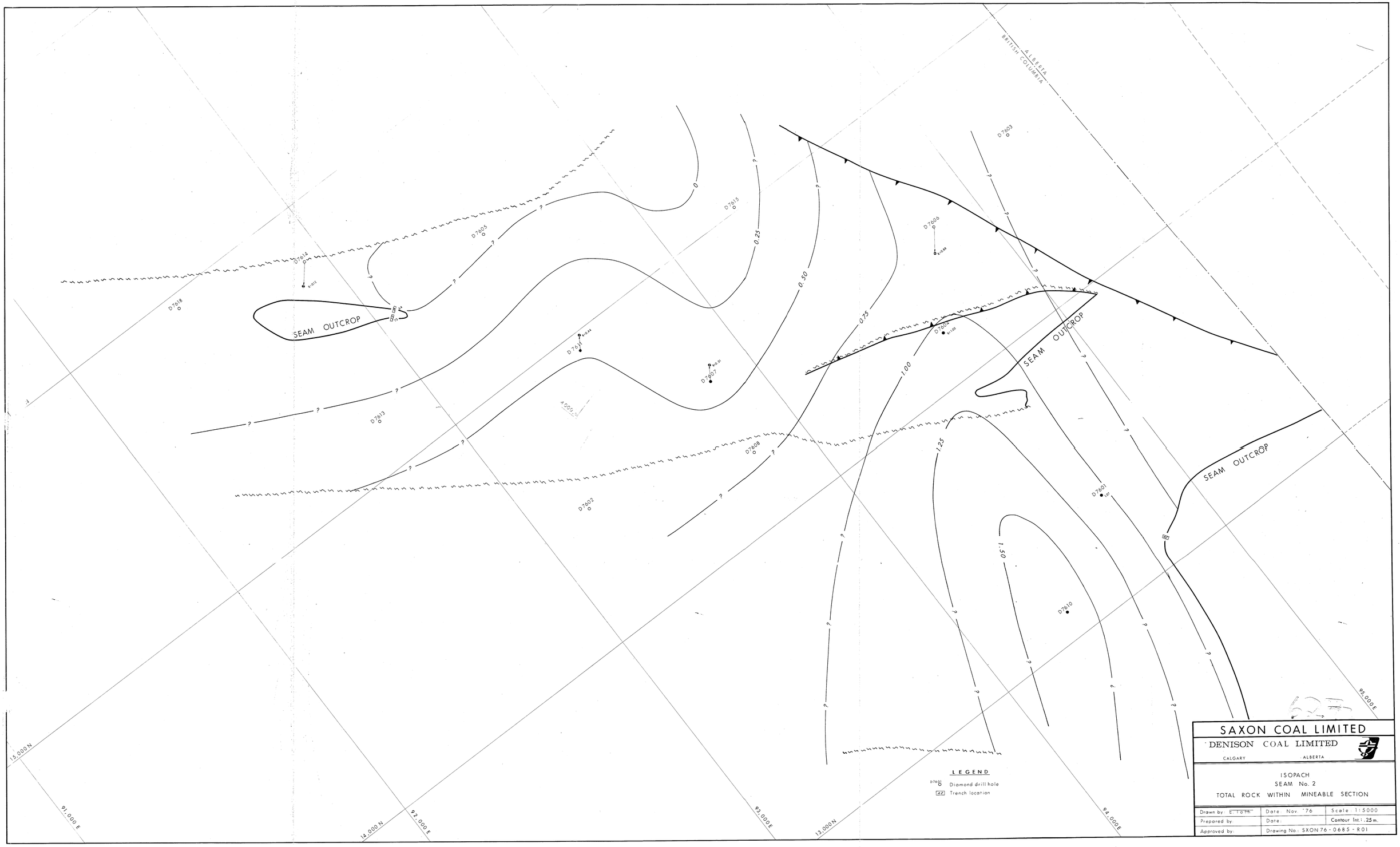
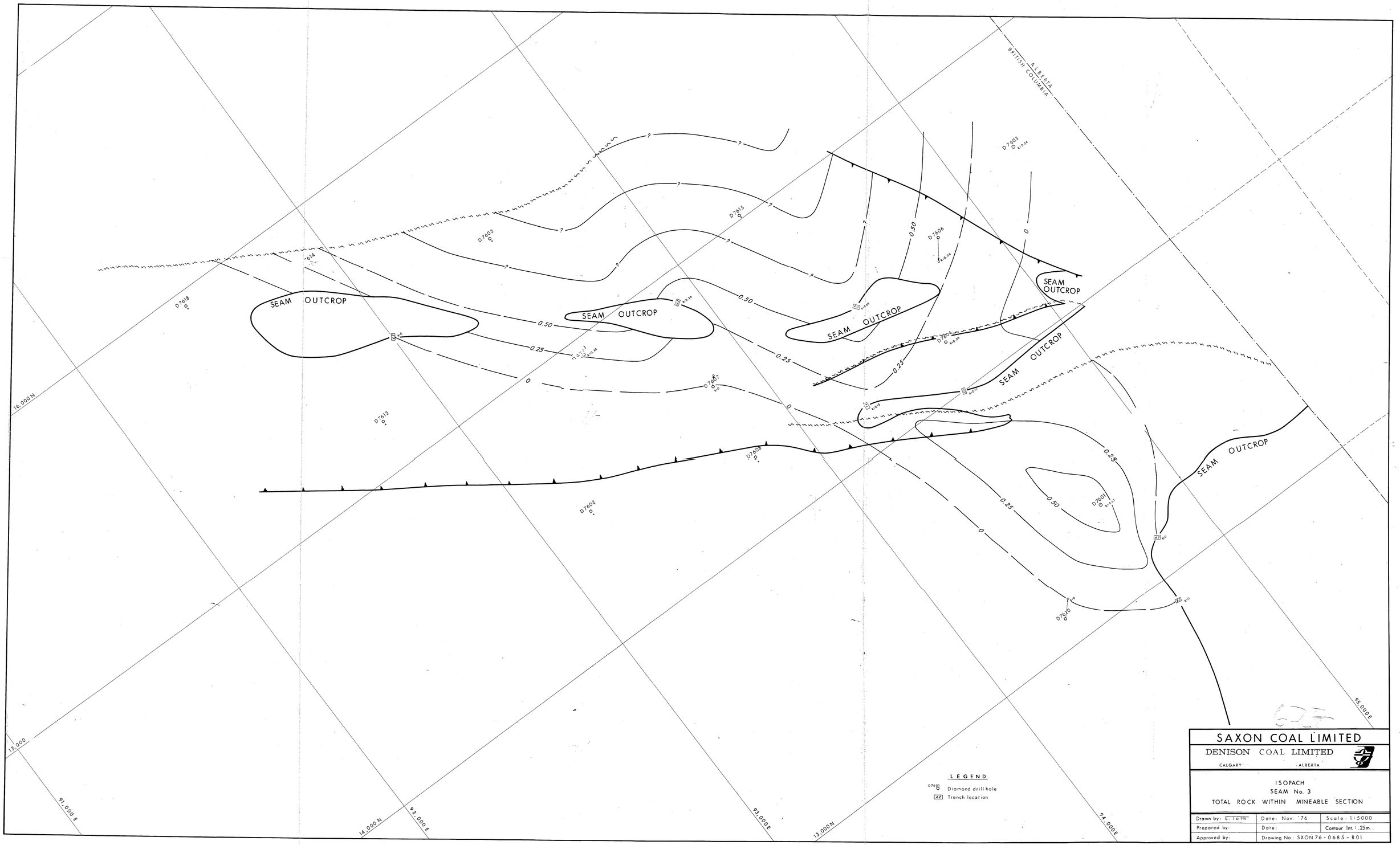
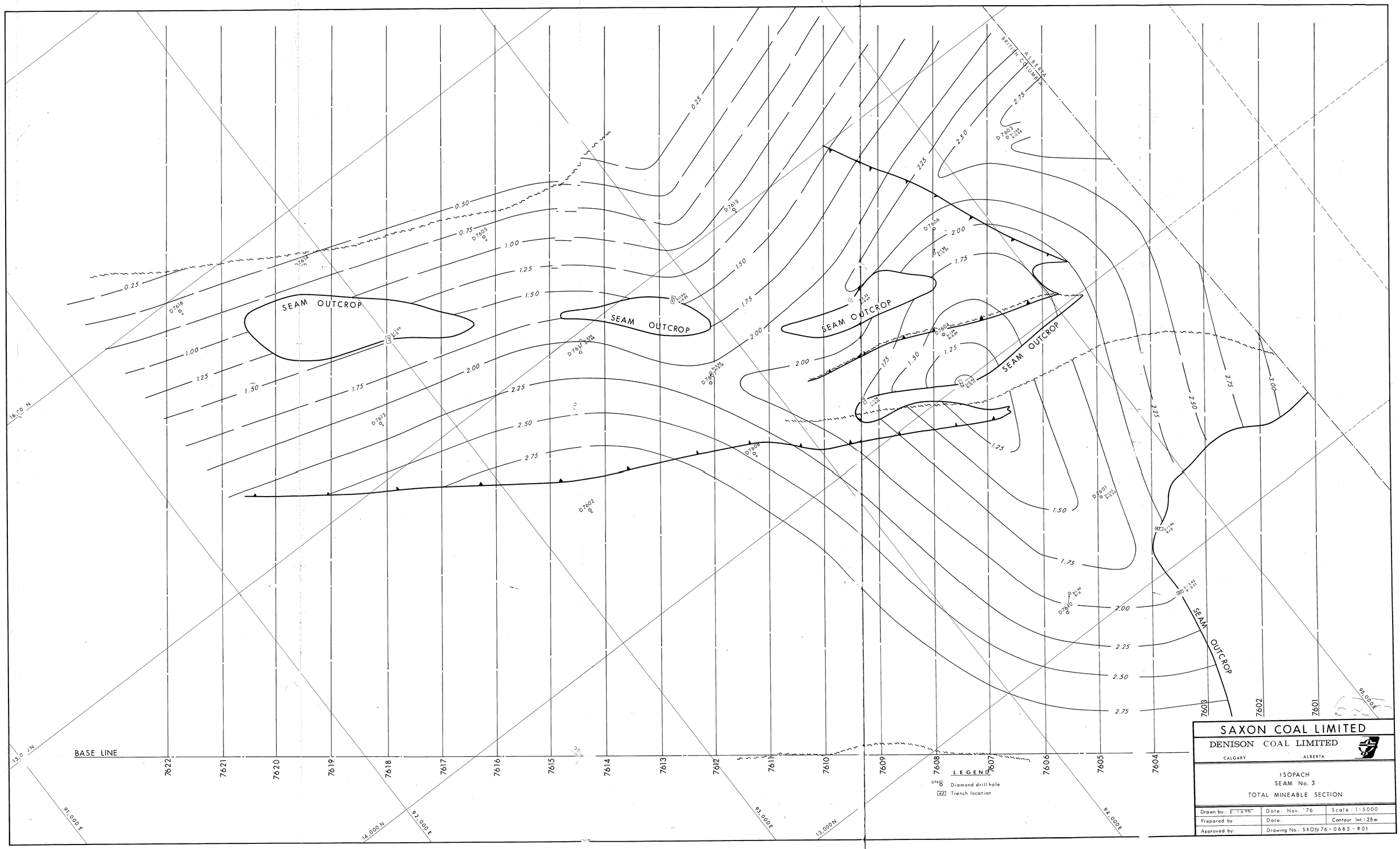
13 000 N
91 000 E
92 000 E
93 000 E
94 000 E
95 000 E
D7601
D7602
D7603
D7604
D7605
D7606
D7607
D7608
D7609
D7610
D7611
D7612
D7613
D7614
D7615
D7616
3.75
4.00
4.25
4.50
4.75
5.00
5.25
5.50
5.75
6.00
6.25
6.50
6.75
7.00
7.25
7.50
7.75
LEGEND
Diamond drill hole
Trench location
SAXON COAL LIMITED
DENISON COAL LIMITED
CALGARY ALBERTA
ISOPACH
SEAM No. 2
TOTAL MINEABLE SECTION
Drawn by: E. Toth
Date: Nov. '76
Scale: 1:5000
Prepared by:
Date:
Contour Int.: 25m
Approved by:
Drawing No.: SXON 76 - 0685 - R01


ALBERTA
BRITISH COLUMBIA
SEAM OUTCROP
SEAM OUTCROP
SEAM OUTCROP
0
0.25
0.50
0.75
1.00
1.25
1.50
D7603
D7605
D7606
D7607
D7608
D7609
D7610
D7611
D7612
D7613
D7614
D7615
D7618
D7601
D7602
15,000 N
14,000 N
13,000 N
91,000 E
92,000 E
93,000 E
94,000 E
95,000 E
LEGEND
Diamond drill hole
Trench location
SAXON COAL LIMITED
DENISON COAL LIMITED
CALGARY ALBERTA
ISOPACH
SEAM No. 2
TOTAL ROCK WITHIN MINEABLE SECTION
Drawn by: E. Toth
Date: Nov. '76
Scale: 1:5000
Prepared by:
Date:
Contour Int.: .25 m.
Approved by:
Drawing No.: SXON 76 - 0685 - R01

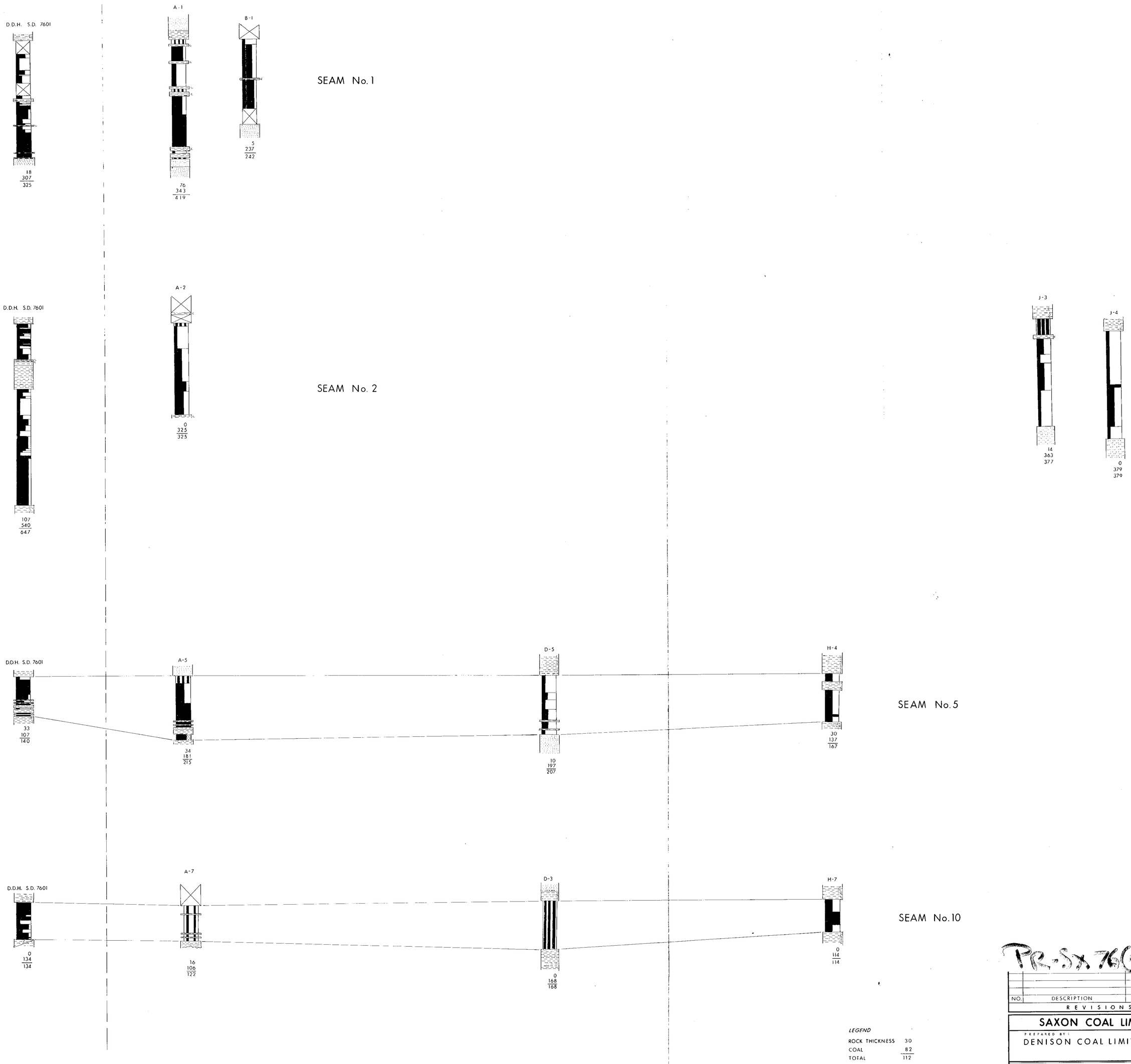

ALBERTA
BRITISH COLUMBIA
SEAM OUTCROP
SEAM OUTCROP
SEAM OUTCROP
SEAM OUTCROP
SEAM OUTCROP
SEAM OUTCROP
D7603
D7605
D7606
D7608
D7613
D7615
D7618
D7602
D7601
D7610
0.50
0.25
0
?
16,000 N
15,000
14,000 N
13,000 N
91,000 E
92,000 E
93,000 E
94,000 E
95,000 E
LEGEND
Diamond drill hole
Trench location
SAXON COAL LIMITED
DENISON COAL LIMITED
CALGARY ALBERTA
ISOPACH
SEAM No. 3
TOTAL ROCK WITHIN MINEABLE SECTION
Drawn by: E. Toth
Date: Nov. '76
Scale: 1:5000
Prepared by:
Date:
Contour Int.: .25m.
Approved by:
Drawing No.: SXON 76 - 0685 - R01


SEAM OUTCROP
SEAM OUTCROP
SEAM OUTCROP
SEAM OUTCROP
SEAM OUTCROP
BASE LINE
7622
7621
7620
7619
7618
7617
7616
7615
7614
7613
7612
7611
7610
7609
7608
7607
7606
7605
7604
7603
7602
7601
LEGEND
Diamond drill hole
Trench location
BRITISH COLUMBIA
ALBERTA
91,000 E
92,000 E
93,000 E
94,000 E
95,000 E
14,000 N
13,000 N
SAXON COAL LIMITED
DENISON COAL LIMITED
CALGARY
ALBERTA
ISOPACH
SEAM No. 3
TOTAL MINEABLE SECTION
Drawn by: E. Toth
Date: Nov. '76
Scale: 1:5000
Prepared by:
Date:
Contour Int.: 25m
Approved by:
Drawing No.: SXON 76-0685-R01

SECS

PR-SAXON-76(5) A-2

(Book B-2)



PR-SX 76(G)A-1

NO.	DESCRIPTION	BY	DATE

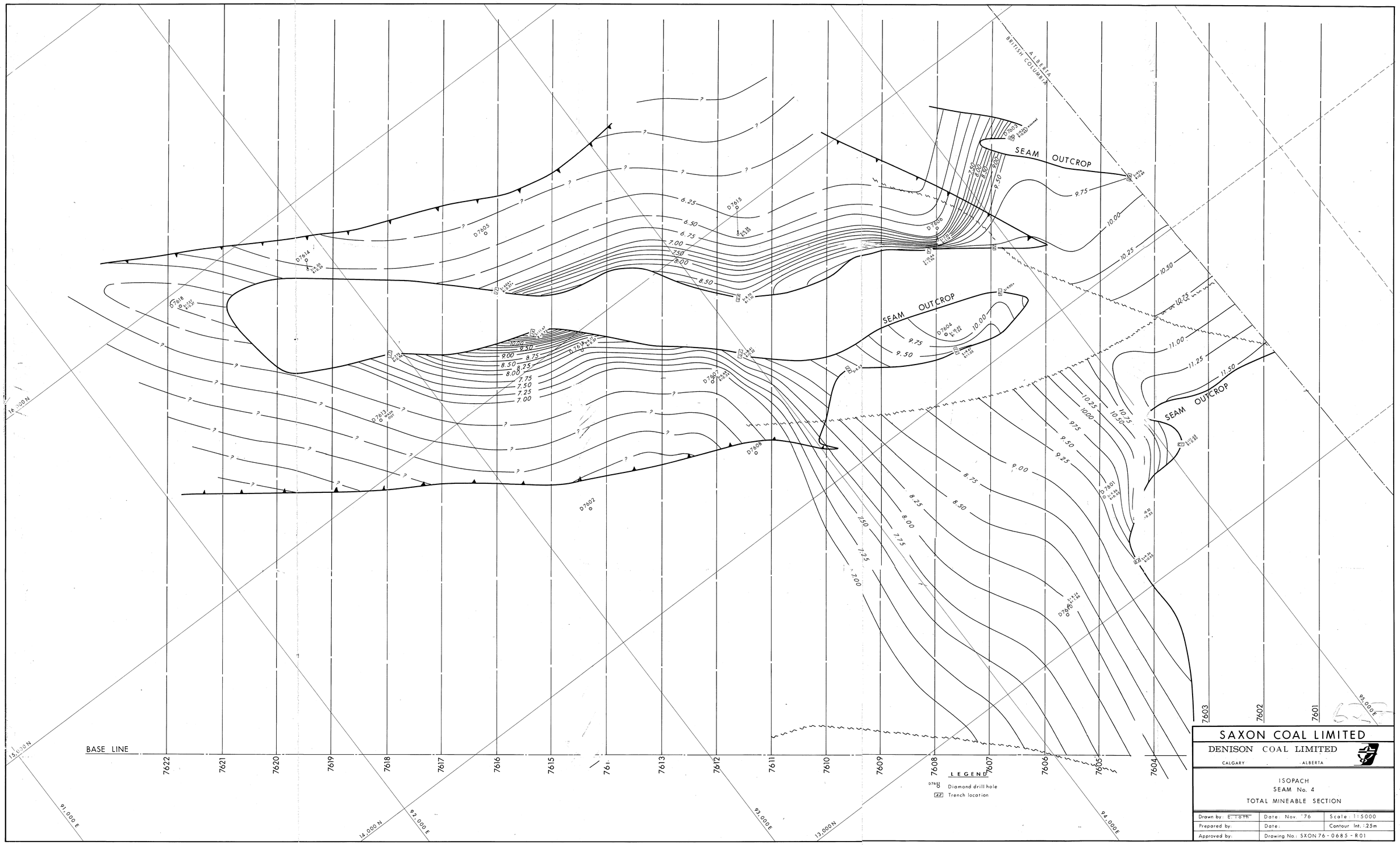
REVISIONS

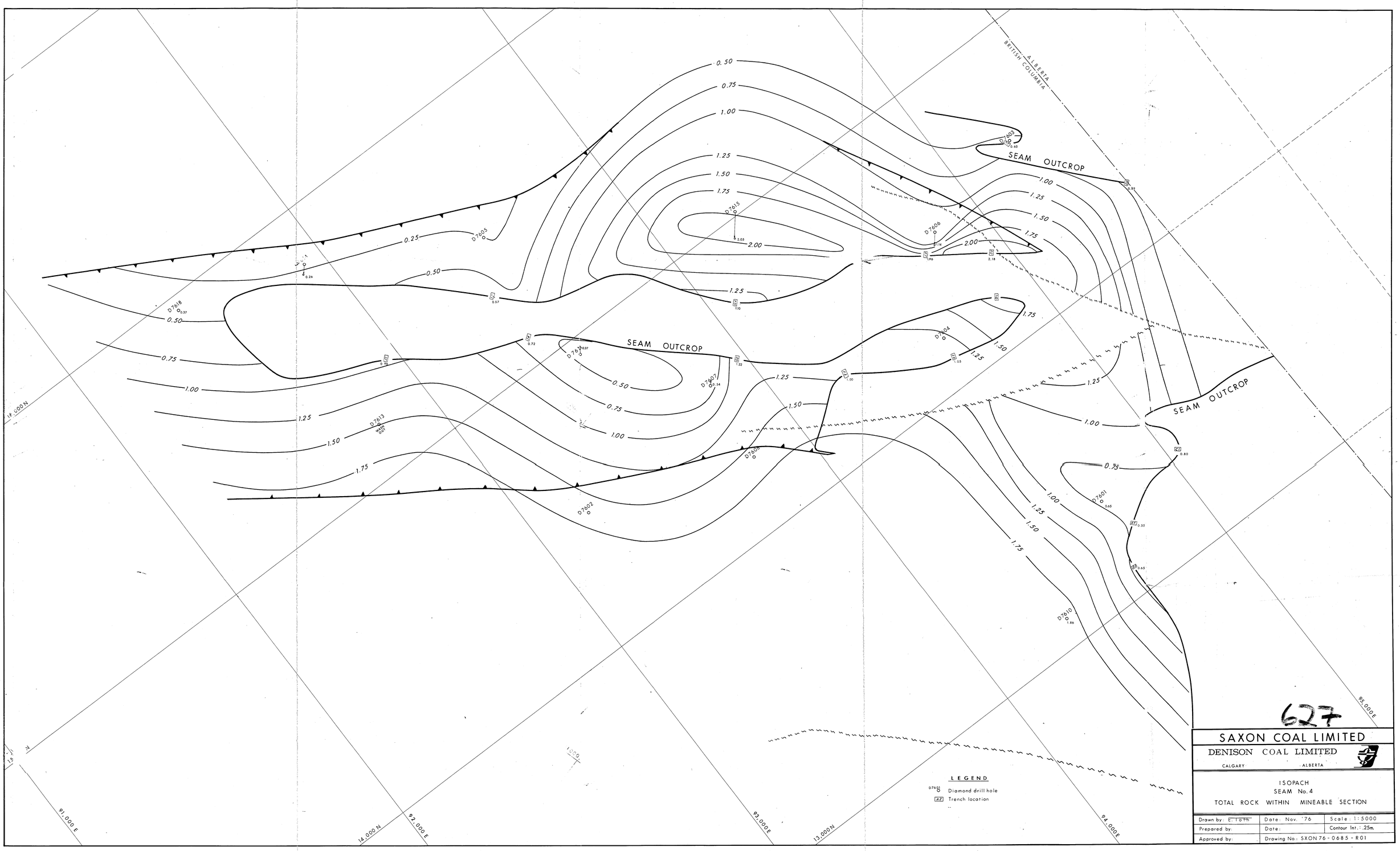
SAXON COAL LIMITED

PREPARED BY:
DENISON COAL LIMITED

SAXON SOUTH
TRENCH CORRELATION
SEAMS No. 1, 2, 5 & 10

DRAWN BY: T. IESSEN	DATE: Dec '76	SCALE: VERT. 1:50 HORIZ. NIL
PREP'D BY:	DATE:	DRAWING NUMBER: SXON-76-0703-R01
APPR'D BY:	DATE:	


ALBERTA
BRITISH COLUMBIA
SEAM OUTCROP
SEAM OUTCROP
SEAM OUTCROP
SEAM OUTCROP
BASE LINE
7622
7621
7620
7619
7618
7617
7616
7615
7613
7612
7611
7610
7609
7608
7607
7606
7605
7604
7603
7602
7601
16,000 N
15,000 N
14,000 N
13,000 N
91,000 E
92,000 E
93,000 E
94,000 E
95,000 E
LEGEND
Diamond drill hole
Trench location
SAXON COAL LIMITED
DENISON COAL LIMITED
CALGARY ALBERTA
ISOPACH
SEAM No. 4
TOTAL MINEABLE SECTION
Drawn by: E. Toth
Date: Nov. '76
Scale: 1:5000
Prepared by:
Date:
Contour Int.: 25m
Approved by:
Drawing No.: SXON 76-0685-R01



627

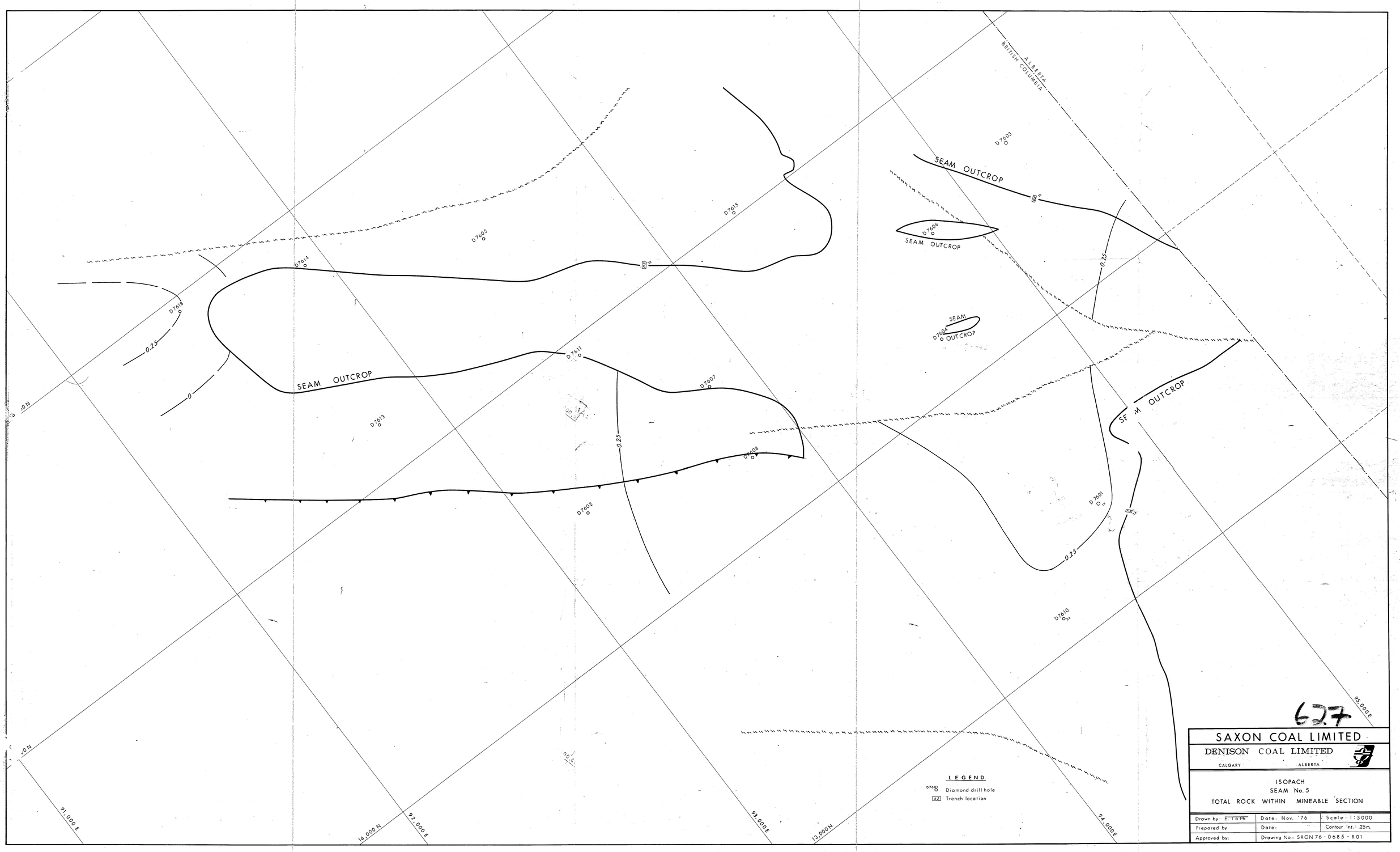
SAXON COAL LIMITED

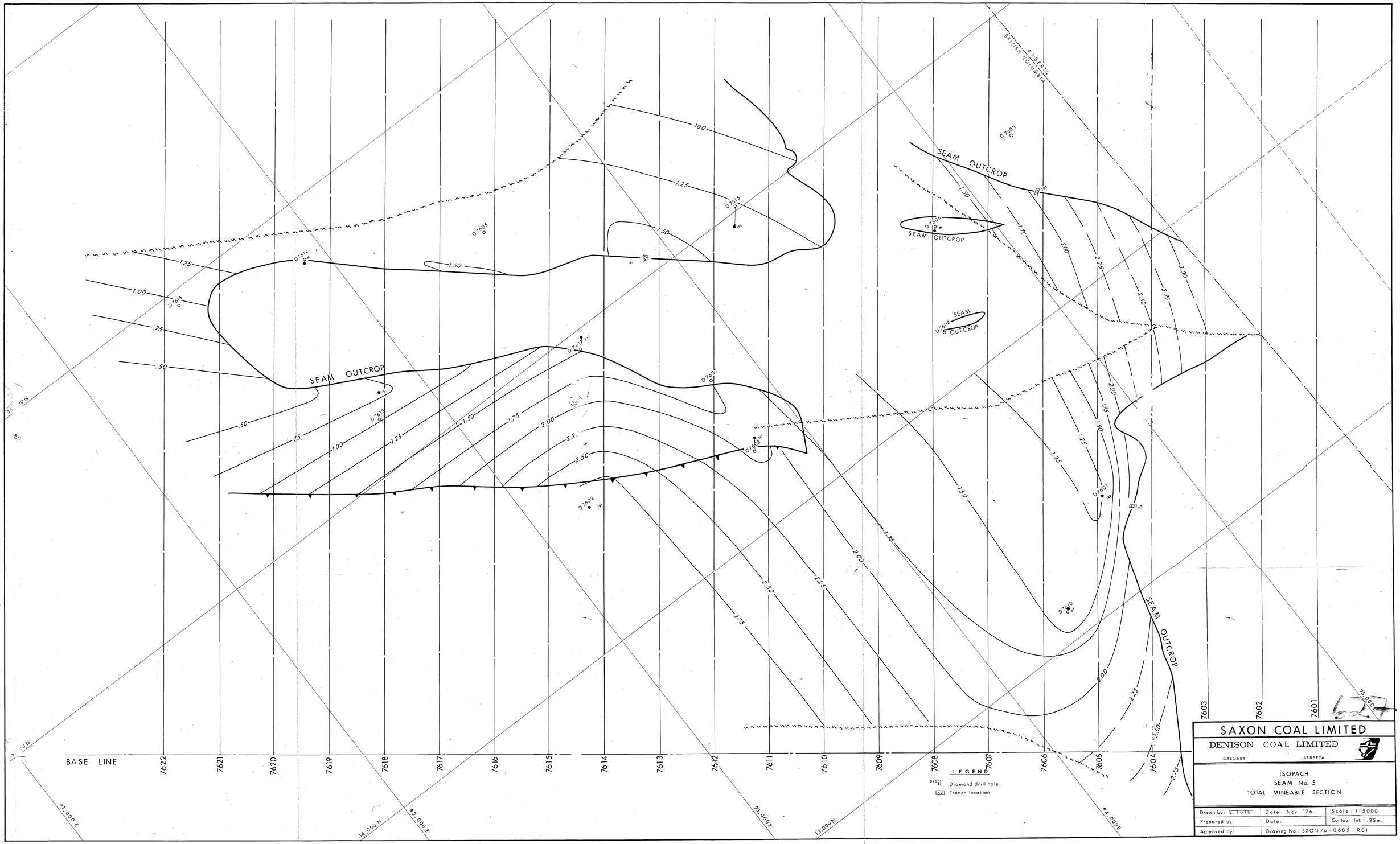
DENISON COAL LIMITED

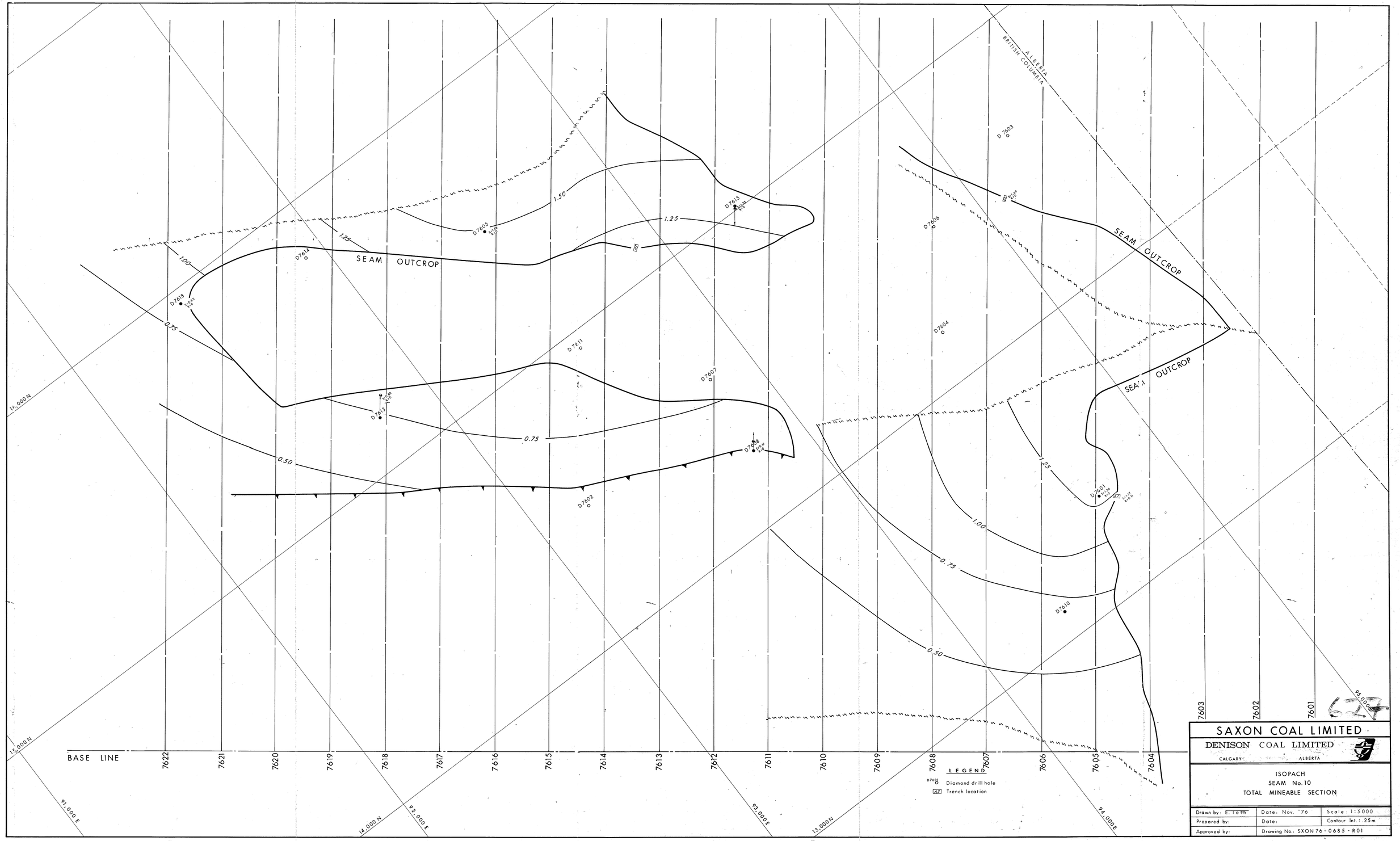
CALGARY ALBERTA

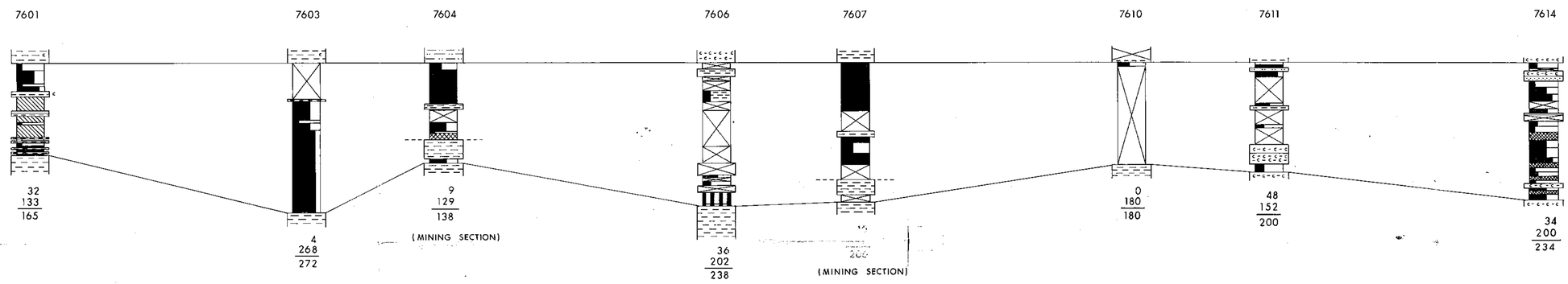
ISOPACH
SEAM No. 4
TOTAL ROCK WITHIN MINEABLE SECTION

Drawn by: E. Loth	Date: Nov. '76	Scale: 1:5000
Prepared by:	Date:	Contour Int.: .25m.
Approved by:	Drawing No.: SXON 76 - 0685 - R01	

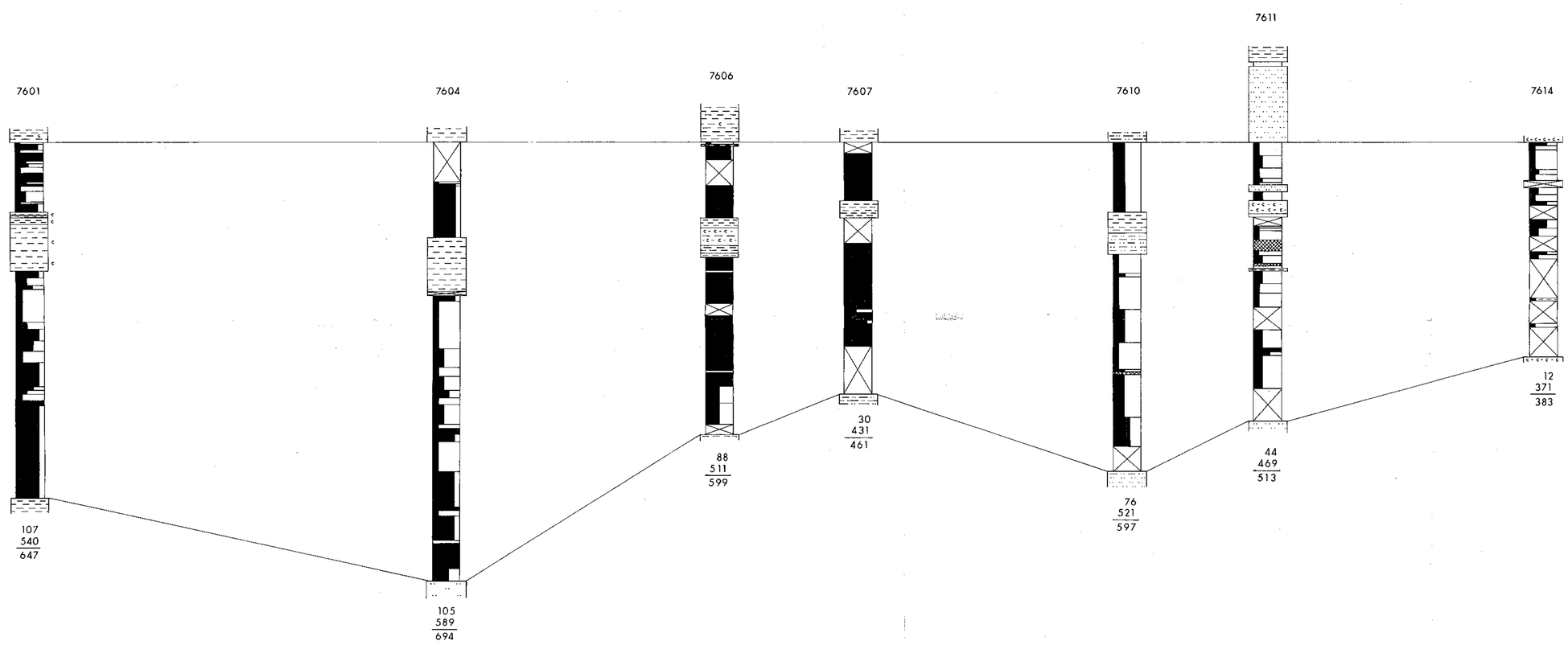

ALBERTA
BRITISH COLUMBIA
D7603
SEAM OUTCROP
D7606
SEAM OUTCROP
D7615
D7605
D7614
D7618
0.25
0
SEAM OUTCROP
D7611
D7607
D7613
0.25
D7608
D7602
SEAM
D7604
OUTCROP
0.25
SEAM OUTCROP
D7601
0.25
D7610
LEGEND
D7601 Diamond drill hole
Trench location
91,000 E
14,000 N
92,000 E
93,000 E
13,000 N
94,000 E
95,000 E
627
SAXON COAL LIMITED
DENISON COAL LIMITED
CALGARY ALBERTA
ISOPACH
SEAM No. 5
TOTAL ROCK WITHIN MINEABLE SECTION
Drawn by: E. Toth
Date: Nov. '76
Scale: 1:5000
Prepared by:
Date:
Contour Int.: .25m.
Approved by:
Drawing No.: SXON 76-0685-R01


ALBERTA
BRITISH COLUMBIA
SEAM OUTCROP
SEAM OUTCROP
SEAM OUTCROP
SEAM OUTCROP
SEAM OUTCROP
BASE LINE
7622
7621
7620
7619
7618
7617
7616
7615
7614
7613
7612
7611
7610
7609
7608
7607
7606
7605
7604
7603
7602
7601
91,000 E
92,000 E
93,000 E
94,000 E
95,000 E
14,000 N
13,000 N
LEGEND
Diamond drill hole
Trench location
SAXON COAL LIMITED
DENISON COAL LIMITED
CALGARY ALBERTA
ISOPACH
SEAM No. 5
TOTAL MINEABLE SECTION
Drawn by: E. Toth
Date: Nov. '76
Scale: 1:5000
Prepared by:
Date:
Contour Int.: .25m.
Approved by:
Drawing No.: SXON 76 - 0685 - R01

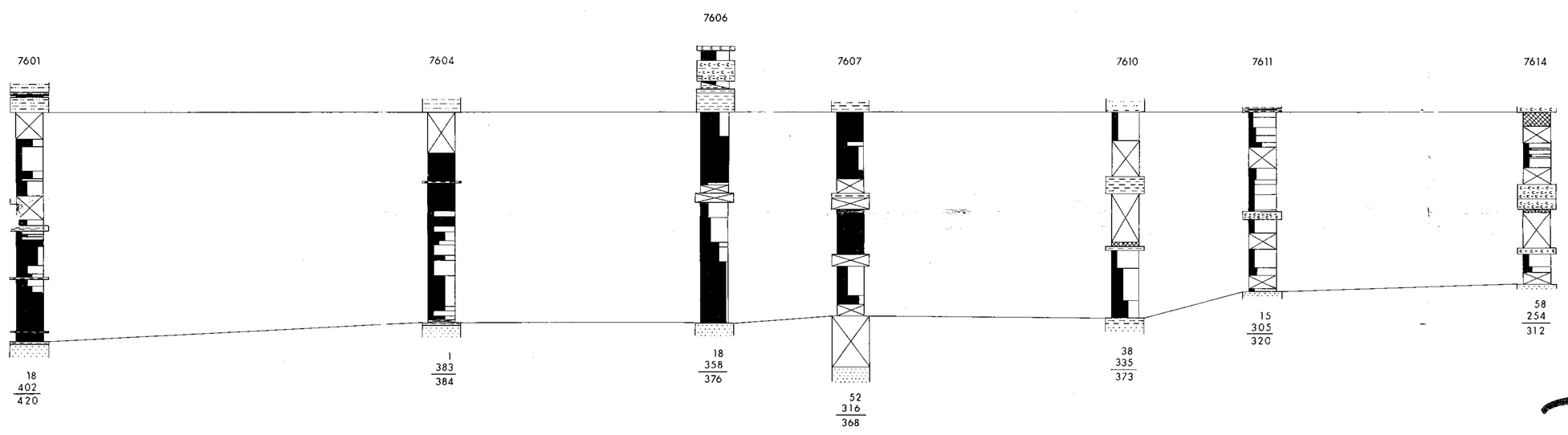

ALBERTA
BRITISH COLUMBIA
SEAM OUTCROP
SEAM OUTCROP
SEAM OUTCROP
1.50
1.25
1.00
0.75
0.50
D7605
D7615
D7614
D7618
D7611
D7607
D7613
D7608
D7602
D7603
D7606
D7604
D7601
D7610
BASE LINE
7622
7621
7620
7619
7618
7617
7616
7615
7614
7613
7612
7611
7610
7609
7608
7607
7606
7605
7604
7603
7602
7601
15,000 N
14,000 N
13,000 N
91,000 E
92,000 E
93,000 E
94,000 E
95,000 E
LEGEND
D7601 Diamond drill hole
Trench location
SAXON COAL LIMITED
DENISON COAL LIMITED
CALGARY ALBERTA
ISOPACH
SEAM No. 10
TOTAL MINEABLE SECTION
Drawn by: E. Toth
Prepared by:
Approved by:
Date: Nov. '76
Date:
Drawing No.: SXON 76 - 0685 - R01
Scale: 1:5000
Contour Int.: .25m.



SEAM 3



SEAM 2



SEAM 1

PR-SX76(G)A-1

LEGEND

(THICKNESS IN C.M.)

ROCK	34
COAL	200
TOTAL	234

(MINING SECTION)

NO.	DESCRIPTION	BY	DATE

REVISIONS

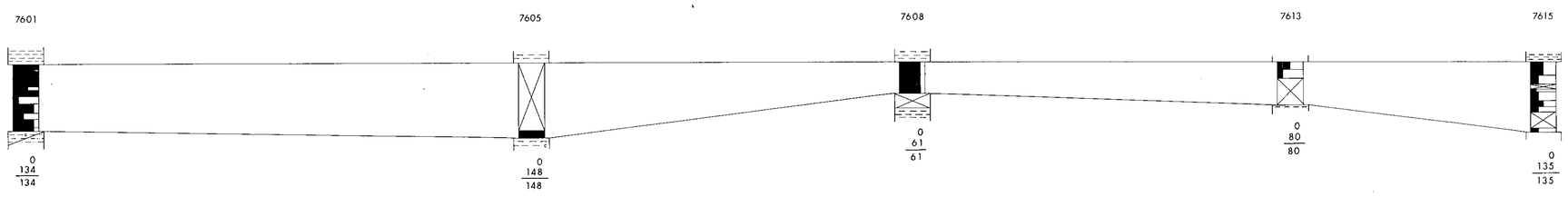
SAXON COAL LIMITED

PREPARED BY:
DENISON COAL LIMITED

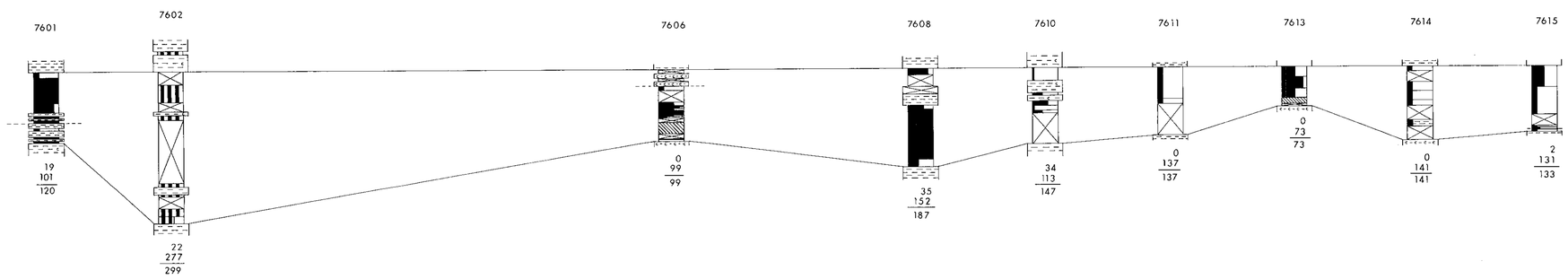
DRILL CORE SECTIONS
SAXON SOUTH
SEAM CORRELATION
SEAMS No. 1, 2 & 3

DRAWN BY: TIESSEN	DATE: Dec. '76	SCALE: VERT. 1:50 HORIZ. Nil
PREP'D BY:	DATE:	DRAWING NUMBER:
APPR'D BY:	DATE:	SXON 76 -0702- R01

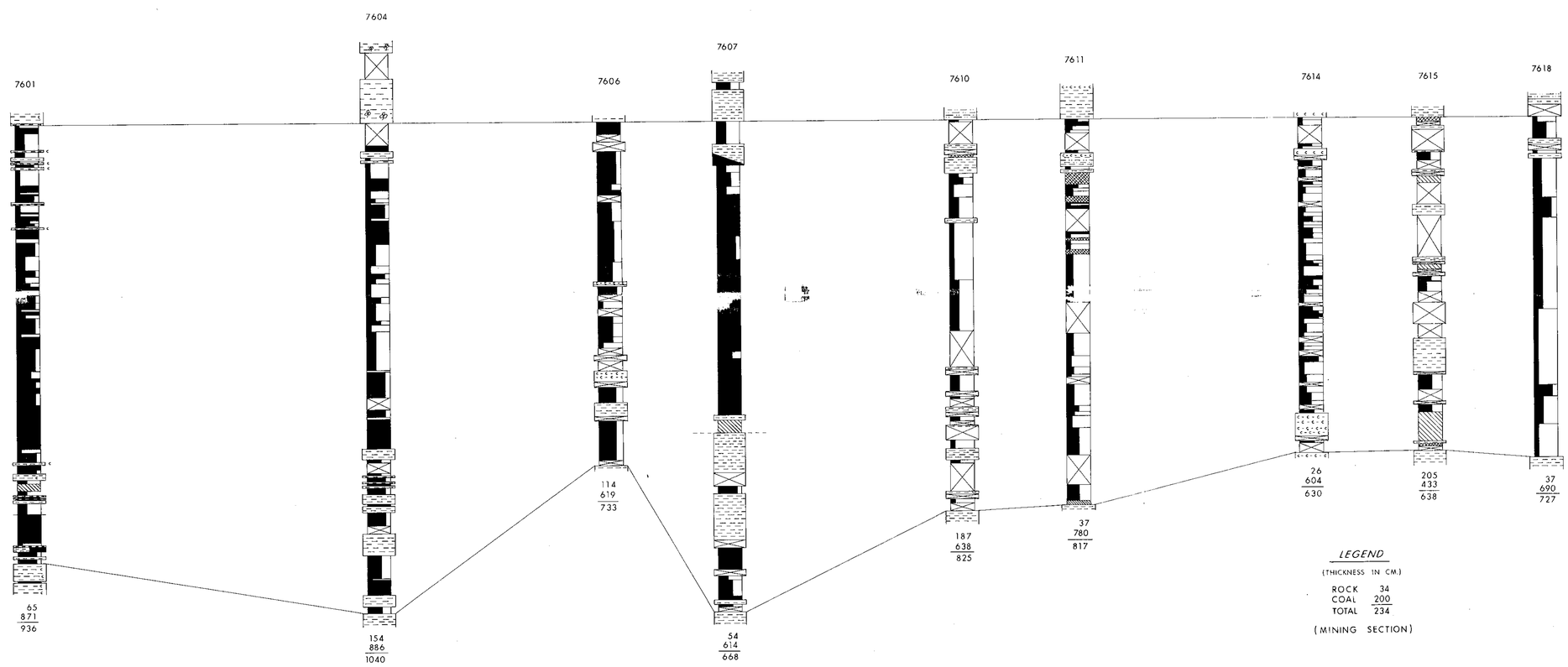
627



SEAM 10



SEAM 5



SEAM

LEGEND

(THICKNESS IN CM.)

ROCK	34
COAL	200
TOTAL	234

(MINING SECTION)

PR-SX 76(5)A-1

NO.	DESCRIPTION	BY	DATE

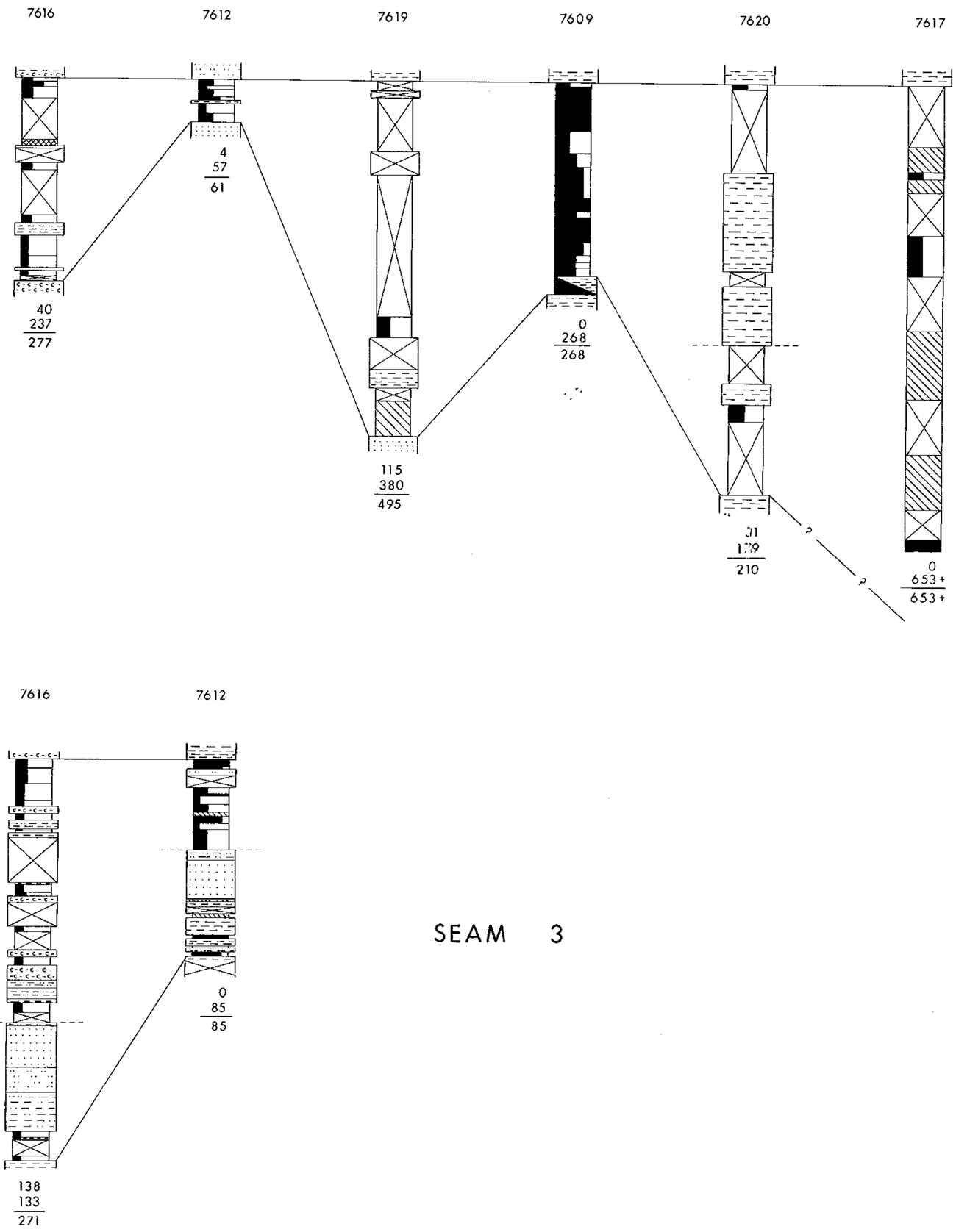
REVISIONS

SAXON COAL LIMITED

PREPARED BY:
DENISON COAL LIMITED

DRILL CORE SECTIONS
SAXON SOUTH
SEAM CORRELATION
SEAMS No. 4, 5 & 10

DRAWN BY: TIESSEN	DATE: Dec. '76	SCALE: VERT. 1:50 HORIZ. Nil
PREP'D BY:	DATE:	DRAWING NUMBER:
APPR'D BY:	DATE:	SXON 76 - 0702 - R01



SEAM 4

SEAM 3

SEAM 2

SEAM 1

LEGEND

(THICKNESS IN CM.)

ROCK	34
COAL	200
TOTAL	234

(MINING SECTION)

Pr-Sx 76 (5) A-1

NO.	DESCRIPTION	BY	DATE

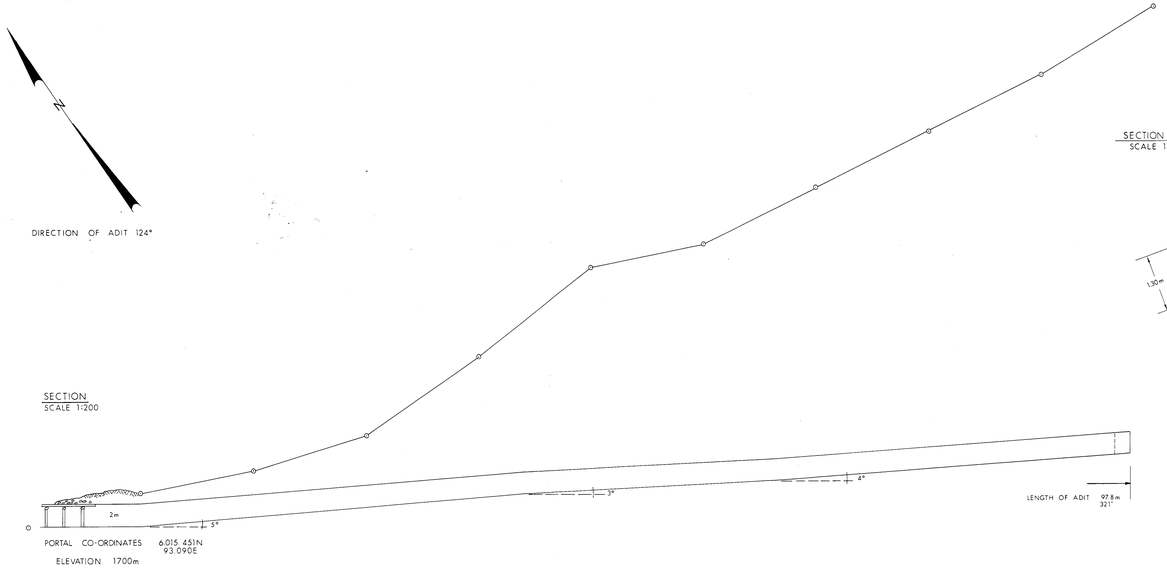
REVISIONS

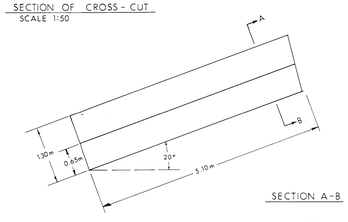
SAXON COAL LIMITED

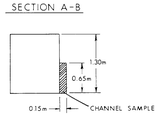
PREPARED BY:
DENISON COAL LIMITED

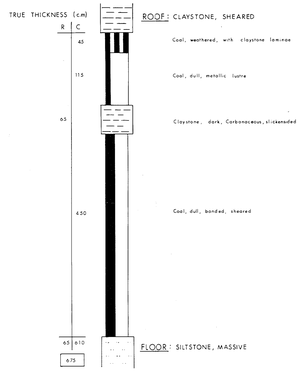
DRILL CORE SECTIONS
SAXON EAST
SEAM CORRELATION
SEAMS No. 1,2,3 & 4

DRAWN BY: TIESSEN	DATE: Dec. '76	SCALE: VERT. 1:50 HORIZ. Nil
PREP'D BY:	DATE:	DRAWING NUMBER:
APPR'D BY:	DATE:	SXON 76 - 0701 - R01

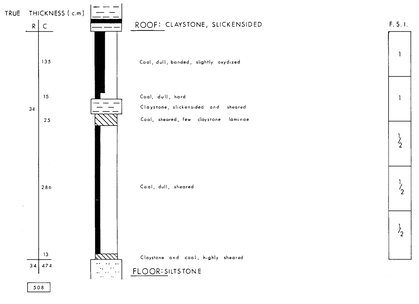




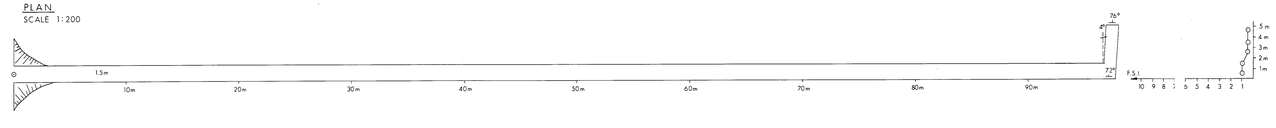


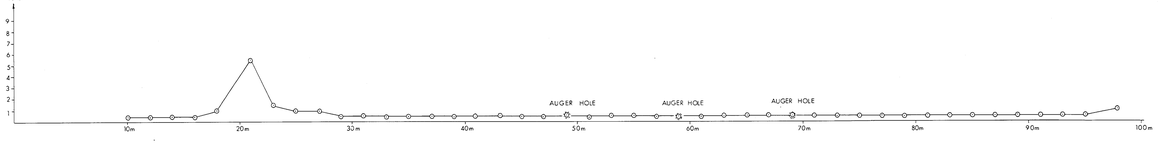


SECTION AT PORTAL
SCALE 1:50



SECTION OF CROSS-CUT
SCALE 1:50





PR-Sx 76(3)A-1

NO.	DESCRIPTION	BY	DATE

REVISIONS

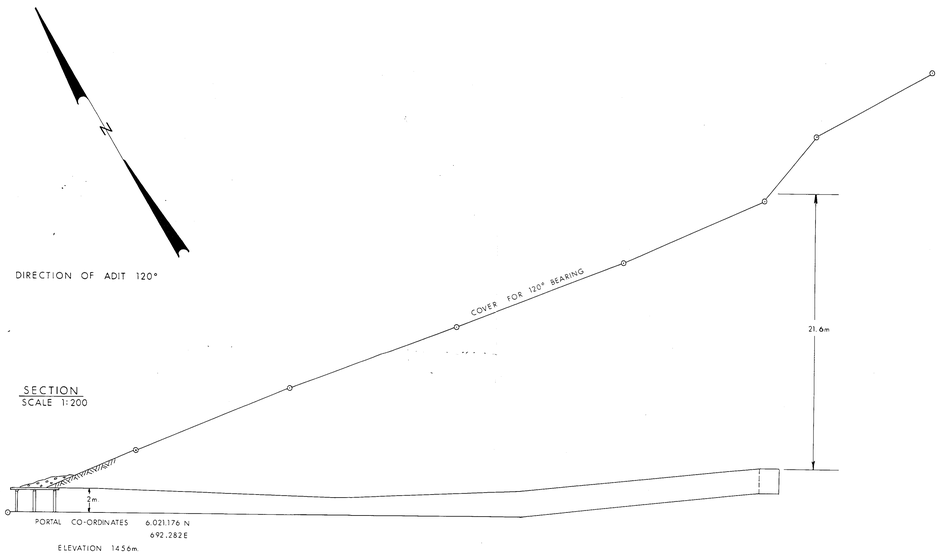
SAXON COAL LIMITED

PREPARED BY:
DENISON COAL LIMITED
SAXON SOUTH

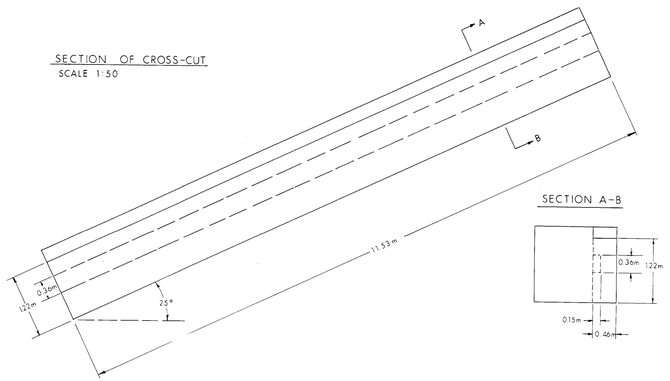
ADIT 76-2-3

DRAWN BY: C.A.M.	DATE: DEC, 1976	SCALE: 1:200 / 1:50
PREP'D BY: PALLOKS	DATE: DEC, 1976	DRAWING NUMBER:
APPR'D BY: GV	DATE: Dec 76	SAXON 76-0713-R01

6 27

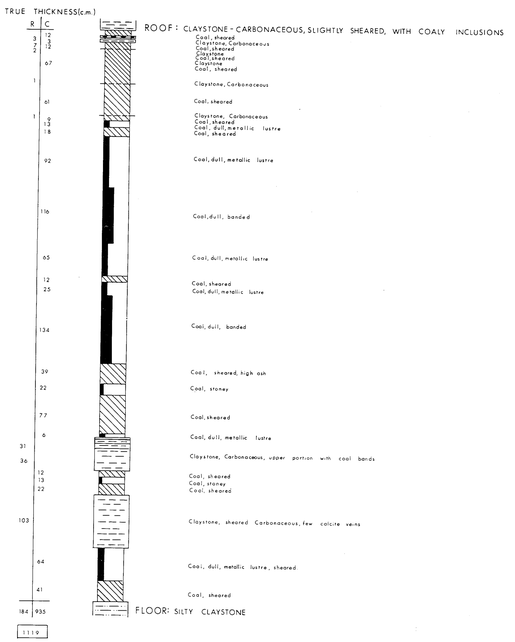


SECTION
SCALE 1:200



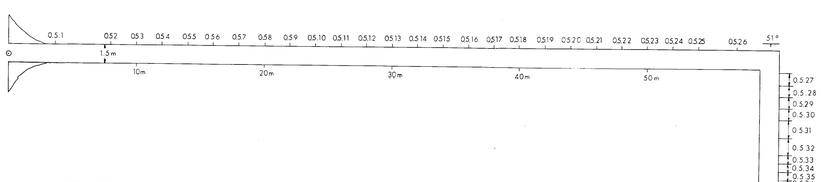
SECTION OF CROSS-CUT
SCALE 1:50

SECTION A-B

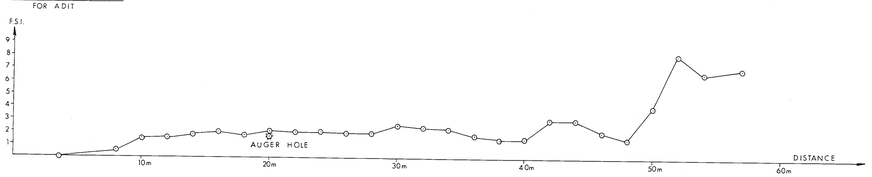


SECTION OF CROSS-CUT
SCALE 1:200

PLAN
SCALE 1:200



F.S.I. VS. DISTANCE
FOR ADIT



F.S.I. VS DISTANCE
FOR CROSSCUT

PR-SX 76 (3) A-1

NO.	DESCRIPTION	BY	DATE

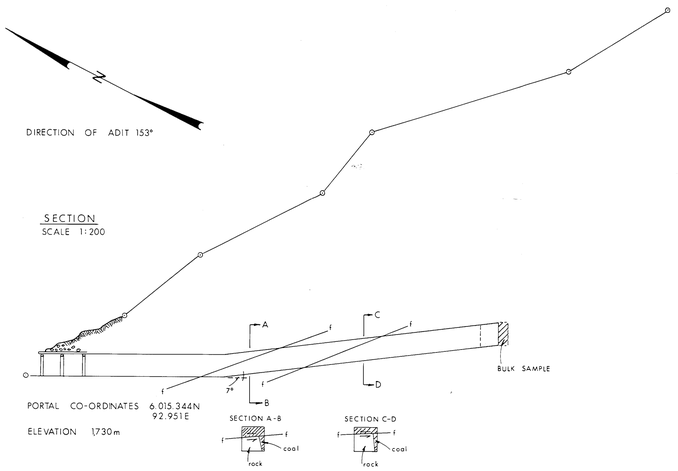
REVISIONS

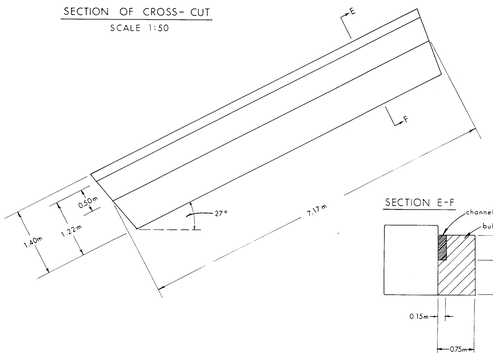
SAXON COAL LIMITED

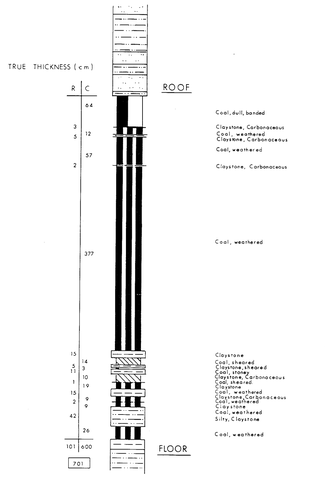
PREPARED BY:
DENISON COAL LIMITED
SAXON EAST

ADIT 76-4-1

DRAWN BY: C.A.M.	DATE: DEC., 1976	SCALE: 1:200 / 1:50
PREP'D BY: MANKOWSKI / PALLOKS	DATE: NOV., 1976	DRAWING NUMBER:
APPR'D BY:	DATE: Dec 76	SXON 76-0713-R01







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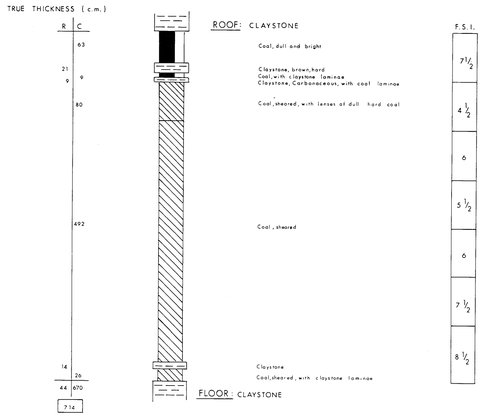

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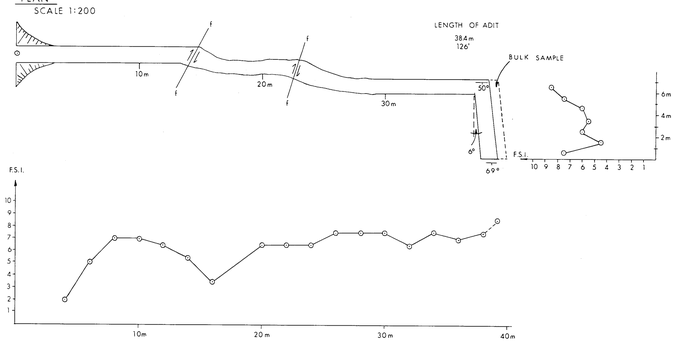


PR-SX 76(3)A-1

NO.	DESCRIPTION	BY	DATE

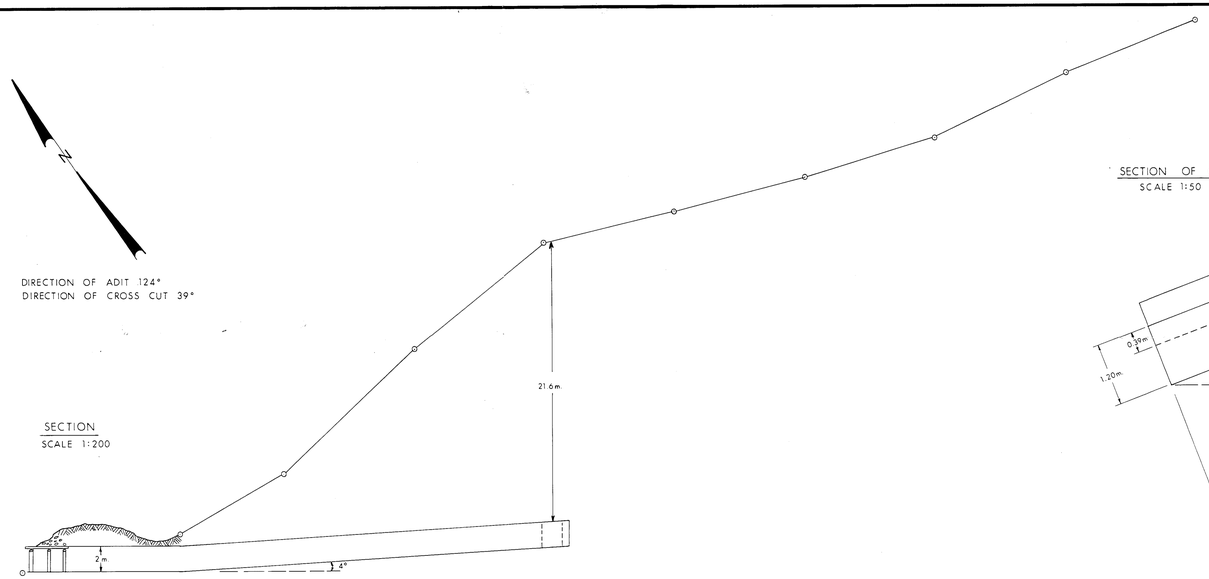
REVISIONS

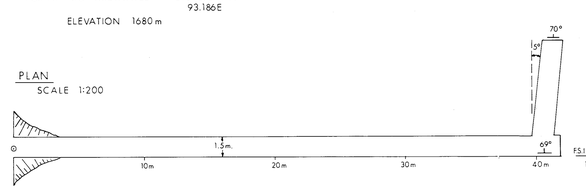
SAXON COAL LIMITED

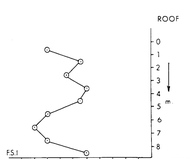
PREPARED BY:
DENISON COAL LIMITED
SAXON SOUTH

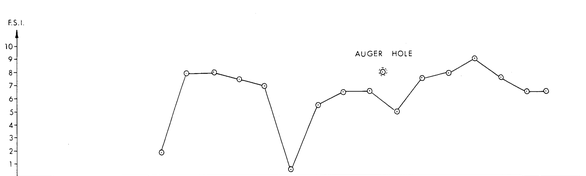
ADIT 76-4-2

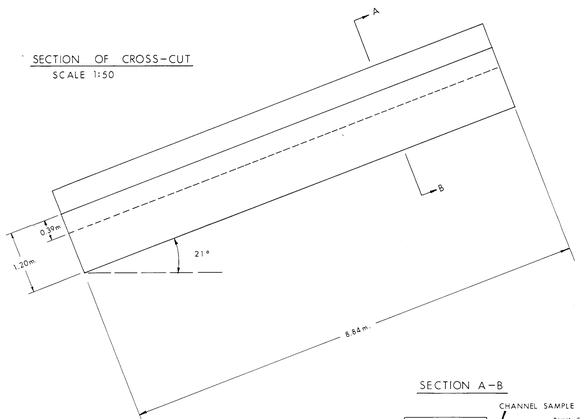
DRAWN BY: C.A.M	DATE: DEC, 1976	SCALE: 1:200 / 1:50
PREP'D BY: PALLOKS	DATE: NOV, 1976	DRAWING NUMBER:
APPR'D BY: G.V	DATE: Dec '76	SXON 76-0713-R01

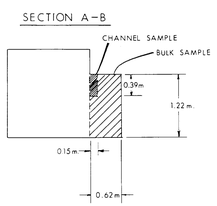


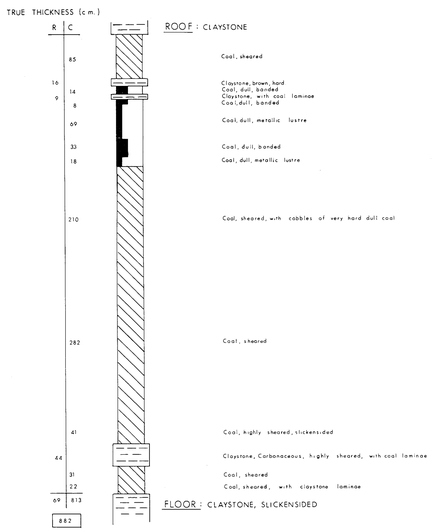












SECTION OF CROSS-CUT
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NO.	DESCRIPTION	BY	DATE

REVISIONS

SAXON COAL LIMITED

PREPARED BY :
DENISON COAL LIMITED
SAXON SOUTH

ADIT 76-4-4

DRAWN BY: C.A.M.	DATE : DEC., 1976	SCALE : 1:200 / 1:50
PREP'D BY: PALLOKS	DATE : NOV., 1976	DRAWING NUMBER:
APPR'D BY: G. J	DATE: Dec '76	SXON 76-0713-R01

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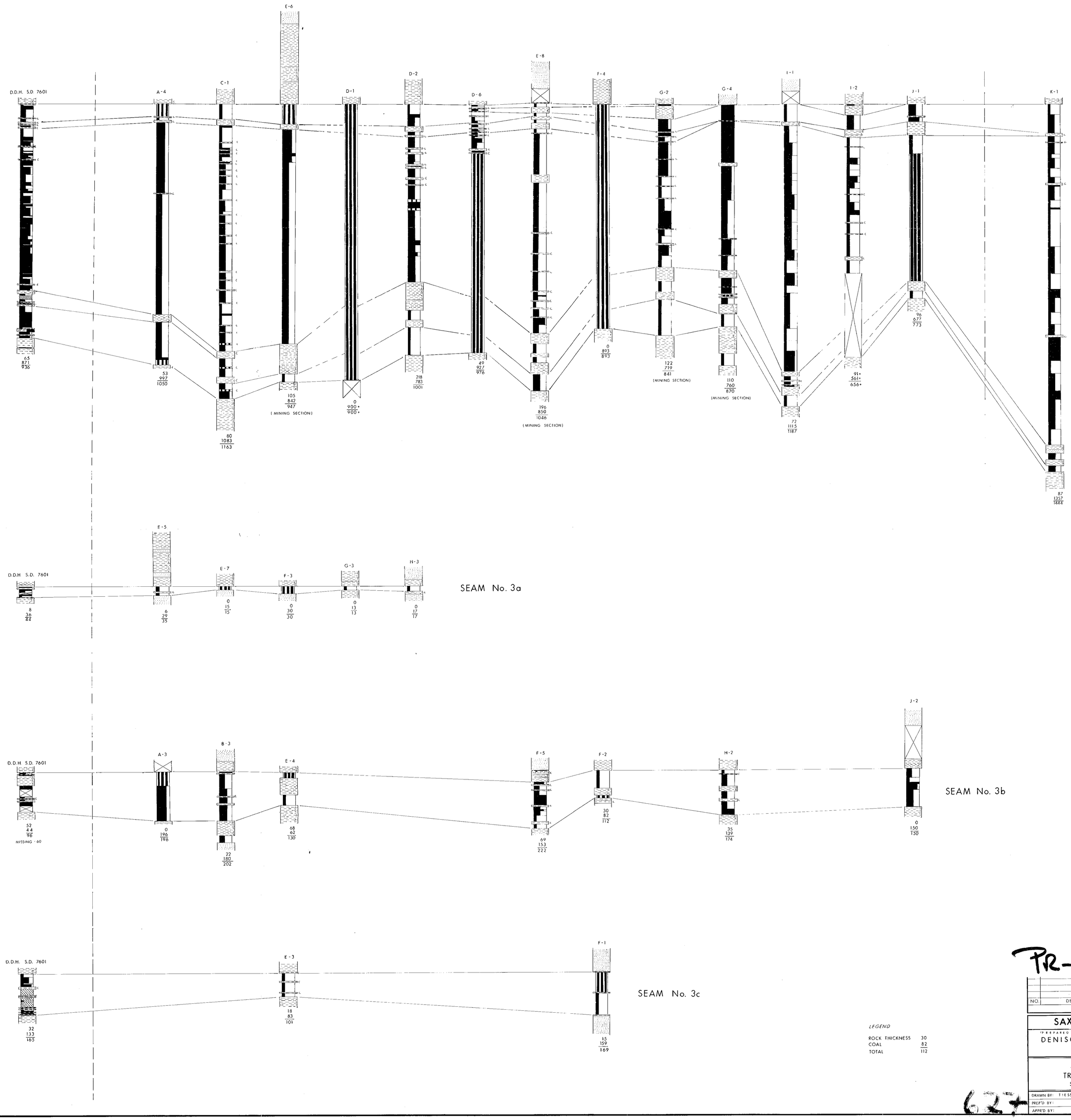

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SAXON COAL LIMITED

PREPARED BY:
DENISON COAL LIMITED

SAXON SOUTH
TRENCH CORRELATION
SEAMS No. 3a, 3b, 3c & 4

DRAWN BY: TIESSEN	DATE: Dec. '76	SCALE: VERT. 1:50 HOR. nil
PREP'D BY:	DATE:	DRAWING NUMBER:
APPR'D BY:	DATE:	SXON 76-0703-R01

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SAXON COAL LTD

1976 EXPLORATION REPORT

APPENDIX IV

RESERVE CALCULATIONS

APPENDIX V

DRILL HOLE SUMMARY : FOR RESERVES

CONFIDENTIAL

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OPEN FILE

APPENDIX IV

RESERVE CALCULATIONS

SAXON EAST AND SAXON SOUTH

BRANCH
REPORT

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SAXON RESERVE CALCULATIONS

Section 7.0 of this report titled "Reserves" does not fully explain the methods used to calculate coal reserves on the Saxon property. Each method is outlined below:

a) The Structure Contour Method

1. A series of structure contour maps covering the Saxon East and Saxon South areas were prepared. Maps were drawn for each of the principal coal seams in each area and these maps are included in this report as Drawings No. SXON 76-0722-R01.
2. In Saxon East, total in situ coal was calculated as detailed below, firstly to a depth of cover of 500 metres and secondly for the above drainage portion of each seam. Each of the cutoff lines is shown on the accompanying structure contour maps. In Saxon South, the same calculation was made for the hypothetical pit areas, and for the portion to 500 metres cover.

   i) To determine the area occupied by each seam, a planimeter was calibrated to a standard map area, in this case 1×10^6 square metres, to give a planimeter function.

   ii) The area of each seam was then determined by dividing the seam area as measured with the planimeter by the planimeter function, and multiplying the dip secant for each block:

   $$\frac{\text{Planimeter area}}{\text{Planimeter function}} \times \text{seam thickness} \times \text{dip secant}$$

   iii) The calculation of coal volume for each block is gained by multiplication by the seam thickness which gives the volume of coal in millions of cubic metres.

iv) This volume is multiplied by the specific gravity of the raw coal or plant feed, which is assumed to be 1.45, to determine the weight of raw coal in metric tons.

v) To the raw coal tonnage, factors of 90% for surface mining loss, 85% for geological uncertainty, and 5% by weight for out of seam dilution were applied to obtain a value for the weight of plant feed coal.

vi) For underground mining, in addition to the 0.85 geological factor, a mining recovery factor of 70% was used to calculate the extractable raw coal reserve for hydraulic mining. In addition, a further 15% deduction (0.85 factor) was applied to the clean coal reserves so calculated to allow for areas within the mining plan that may not be accessible due to local geological conditions and also those areas where such things as local pressures or water problems may cause premature abandonment of a panel. This factor is referred to as the geo-mining factor. No allowance was made at this time for out-of-seam dilution in the underground coal production as it may be compensated for by equal amounts of inseam dilution which would be too heavy to flume.

vii) To the plant feed tonnage a 70% yield factor, which includes the efficiency factor of 96%, was applied to determine the net clean coal.

NOTE: The assumption and application of a 70% wash plant yield has been used to provide a consistant data base for mine production scheduling in this study, pending receipt of analytical data. The preliminary washability data available at this time indicates that the yield will probably be conservative when the effect of core losses and washability data are fully considered.

3. Using a 50 metre contour spacing, the overburden volume was calculated by measuring successive horizontal slices (dip secant = 1). These slices were taken from the base of the lowermost coal seam and extended horizontally to the nearest topographic surface. The volume of each slice was calculated by averaging the area of the upper surface with that of the lower surface and multiplying by the contour interval. The sum of these volumes was then used as the aggregate coal and rock volume in a hypothetical pit which could be defined by removal of the slices.

4. The plant feed ratio in Saxon South was then determined as follows:

$$\frac{\text{Total volume of Coal and Rock (Cubic Metres)} - \text{Plant Feed Coal Volume (Cubic Metres)}}{\text{Total Weight of Plant Feed Coal (Metric tons) (Sp.G. = 1.45)}} = \frac{\text{Overburden (Cubic Metres)}}{\text{Coal (Metric tons)}}.$$

Complete calculations for Saxon East and Saxon South are shown on the following pages.

b) <u>The Cross Section Method</u>

1. Cross sections were prepared with a spacing of 200 metres in Saxon South and 500 metres in Saxon East. These sections are included in the pocket of the report as Drawing No. SXON 76-0689-R01.

2. Total in situ coal in Saxon South was determined to 500 metres cover and according to Note No. 2 of Method A for Saxon East:

   i) A planimeter function was derived as before.

   ii) The varying seam thicknesses were plotted on the cross sections as determined from the isopach maps.

   iii) The seam lengths were measured and coal volume determined by multiplying by a section area of influence equal to the section spacing.

iv) Overburden volumes were determined by planimetry of the cross section and multiplication by the sectional area of influence.

3. Plant feed ratios, plant feed coal and clean coal were calculated as in Method A above.

SAXON EAST INDICATED RESERVES (PLANIMETRY METHOD)

	SEAM	BLOCK	PLANIMETER AREA FACTOR-250.000	AVERAGE DIP SECANT	AREA (SQ.M X 10^6)	AVERAGE THICKNESS (M)	VOLUME (CU. M X 10^6)	SP. GR.	COAL IN PLACE (METRIC TONS X 10^6)	GEOLOGICAL FACTORED COAL X 0.85	MINING RECOVERY FACTORED COAL X 0.70	WASH PLANT YIELD FACTORED COAL * X 0.70	NET CLEAN COAL (METRIC TONS X 10^6) 0.85 GEO-MINING FACTOR APPLIED
PORTION BELOW BASE OF FLUME LINE TO 500 METRE DEPTH	4	1 (oxidized)	-	-	-	-	-	-	-	-	-	-	-
		1 (unoxidized)	213 750	1.156	9.25	8.18	2.02	1.45	2.93	2.49	1.74	1.22	1.04
		11 (oxidized)	13 325	1.346	0.02	4.31	0.08	1.45	0.11	0.09	0.07	0.05	0.04
		11 (unoxidized)	1 056 675	1.346	1.42	4.64	6.61	1.45	9.58	8.14	5.70	4.00	3 39
	2	11 (oxidized)	8 925	1.346	0.01	2.94	0.03	1.45	0.05	0.04	0.03	0.02	0.02
		11 (unoxidized)	66 075	1.346	0.90	2.95	2.65	1.45	3.84	3.26	2.28	1.60	1.36
	1	11 (oxidized)	12 350	1.346	0.02	6.02	0.10	1.45	0.15	0.13	0.09	0.06	0.05
		11 (unoxidized)	760 150	1.346	1.02	5.67	5.80	1.45	8.43	7.16	5.01	3.51	2.98
			TOTAL (OXIDIZED)				0.21		0.31				0.11
			TOTAL (UNOXIDIZED)				17.08		24.77				8.77
PORTION ABOVE BASE OF FLUME LINE	4	1 (oxidized)	72 625	1.346	0.10	9.98	0.98	1.45	1.42	1.21	0.85	0.60	0.51
		1 (unoxidized)	3 000 375	1.346	4.00	10.73	42.90	1.45	62.21	52.88	37.02	25.91	22.02
		11 (oxidized)	92 125	1.346	0.12	5.59	0.69	1.45	1.00	0.85	0.60	0.42	0.36
		11 (unoxidized)	2 747 900	1.346	3.70	5.46	20.22	1.45	29.32	24.92	17.44	12.21	0.36
	2	11 (oxidized)	76 500	1.346	0.10	3.83	0.40	1.45	0.57	0.48	0.34	0.24	
		11 (unoxidized)	2 886 000	1.346	3.86	4.14	15.98	1.45	23.18	19.70	13.79	9.65	8.20
	1	11 (oxidized)	92 900	1.346	0.13	4.51	0.56	1.45	0.82	0.70	0.49	0.34	0.29
		11 (unoxidized)	2 639 600	1.346	3.55	4.39	15.59	1.45	22.60	19.21	13.45	9.42	8.01
			TOTAL (OXIDIZED)				2.63		3.81				1.36
			TOTAL UNOXIDIZED)				94.70		137.32				48.61
			GRAND TOTAL (OXIDIZED)				2.84		4.12				1.47
			(UNOXIDIZED				111.78		162.09				57.38

SAXON EAST INDICATED RESERV[illegible] (CROSS SECTION METHOD)

	SEAM	BLOCK	COAL SEAM LENGTH (CM.)	COAL SEAM MAP SCALE FACTOR X 50 (M)	COAL SEAM AVERAGE THICKNESS (M)	AVERAGE INFLUENCE (M)	SPECIFIC GRAVITY	COAL IN PLACE (METRIC TONS X 10^6)	GEOLOGICAL FACTORED COAL X 0.70	MINING RECOVERY FACTORED COAL X 0.70	WASH PLANT YIELD FACTORED COAL* X 0.70	NET CLEAN COAL (METRIC TONS X 10^6) 0.85 GEO-MINING FACTOR APPLIED
PORTION BELOW BASE OF FLUME LINE TO 500 METRE DEPTH	4	1 (Oxidized)		-	-	-	-	-	-	-	-	-
		1 (Unoxidized)		466	8.03	707	1.45	3.84	3.26	2.28	1.60	1.36
		11 (Oxidized)		45	4.34	389	1.45	0.11	0.09	0.06	0.04	0.03
		11 (Unoxidized)		2839	4.58	474	1.45	8.94	7.60	5.32	3.72	3.16
	2	11 (Oxidized)		35	2.82	393	1.45	0.06	0.05	0.04	0.03	0.03
		11 (Unoxidized)		1930	2.96	428	1.45	3.55	3.02	2.11	1.48	1.26
	1	11 (Oxidized)		33	6.08	386	1.45	0.11	0.09	0.06	0.04	0.03
		11 (Unoxidized)		2293	5.68	4.29	1.45	8.11	6.89	4.92	3.37	2.86
Block 1 - Area south of Saxon Creek				TOTAL (OXIDIZED)				0.28				0.09
Block 11 - Area between Saxon Creek and Narraway River				TOTAL (UNOXIDIZED)				24.44				8.64
PORTION ABOVE BASE OF FLUME LINE	4	1 (Oxidized)		182	10.21	535	1.45	1.44	1.22	0.85	0.60	0.51
		1 (Unoxidized)		8094	10.53	521	1.45	64.76	55.05	38.54	26.98	22.93
		11 (Oxidized)		238	5.36	493	1.45	0.91	0.77	0.54	0.38	0.32
		11 (Unoxidized)		7588	5.30	502	1.45	29.29	24.90	17.43	12.20	10.73
	2	11 (Oxidized)		192	3.78	522	1.45	0.55	0.47	0.33	0.23	0.20
		11 (Unoxidized)		7753	4.12	509	1.45	23.63	20.09	14.06	9.84	8.36
	1	11 (Oxidized)		227	4.44	507	1.45	0.74	0.63	0.44	0.31	0.26
		11 (Unoxidized)		7113	4.39	505	1.45	22.89	19.46	13.62	9.53	8.10
				TOTAL (OXIDIZED)				3.64				1.29
				TOTAL (UNOXIDIZED)				140.57				49.76
				GRAND TOTAL (OXIDIZED)				3.92				1.38
				GRAND TOTAL (UNOXIDIZED)				165.01				58.40

* Includes wash plant efficiency factor

SAXON EAST - INFERRED RESERVES

PLANIMETER METHOD

SEAM	BLOCK	PLANIMETER	AREA FACTOR-250.000	AVERAGE DIP SECANT	AREA (SQ.M X 10^6)	AVERAGE THICKNESS (M)	VOLUME (CU. M X 10^6)	SP. GR.	COAL IN PLACE (METRIC TONS X 10^6)	GEOLOGICAL FACTORED COAL X 0.85	MINING RECOVERY FACTORED COAL X 0.70	WASH PLANT YIELD FACTORED COAL * X 0.70	NET CLEAN COAL (METRIC TONS X 10^6) 0.85 GEO-MINING FACTOR APPLIED
4	IV (Oxidized)	0.677	169.250	1.219	0.21	3.32	0.68	1.45	0.99	0.84	0.59	0.41	0.35
	IV (Unoxidized)	13.950	3487.500	1.188	4.14	3.02	12.50	1.45	18.12	15.40	10.78	7.55	6.42
2	III (Oxidized)	0.129	32.250	1.346	0.04	3.99	0.17	1.45	0.25	0.21	0.15	0.11	0.09
	III (Unoxidized)	3.100	775.000	1.258	0.98	4.01	3.91	1.45	5.67	4.82	3.37	2.36	2.01
1	III (Oxidized)	0.492	123.000	1.335	0.16	5.81	0.95	1.45	1.38	1.17	0.82	0.57	0.48
	III (Unoxidized)	21.095	5273.750	1.223	6.45	5.27	34.01	1.45	49.46	42.04	29.43	20.60	17.51
					TOTAL (OXIDIZED)		1.80		2.62				0.92
					(UNOXIDIZED)		50.42		73.25				25.94

BLOCK III - Area between Narraway River and upper reaches of south-southeast flowing tributary of Narraway River.

BLOCK IV - Area northwest of Block III.

CROSS SECTION METHOD

SEAM	BLOCK	LENGTH (CM)	MAP SCALE FACTOR x 50 (M)	AVERAGE THICKNESS (M)	AVERAGE INFLUENCE (M)	SPECIFIC GRAVITY	COAL IN PLACE (Metric Tons X 10^6)	GEOLOGICAL FACTORED COAL X 0.85	MINING RECOVERY FACTORED COAL X 0.70	WASH PLANT YIELD FACTORED COAL * X 0.70	NET CLEAN COAL (METRIC TONS X 10^6) 0.85 GEO-MINING FACTOR APPLIED
4	IV (Oxidized)	9.47	473.50	3.36	491	1.45	1.13	0.96	0.67	0.47	0.40
	IV (Unoxidized)	152.80	7640.00	3.31	495	1.45	18.16	15.44	10.81	7.57	6.43
2	III (Oxidized)	1.30	65.00	4.03	525	1.45	0.20	0.17	0.12	0.08	0.07
	III (Unoxidized)	38.70	1935.00	4.02	501	1.45	5.65	4.80	3.36	2.35	2.00
1	III (Oxidized)	5.08	254.00	5.98	507	1.45	1.12	0.95	0.67	0.47	0.40
	III (Unoxidized)	229.00	11450.00	5.40	521	1.45	46.74	39.73	27.82	19.47	16.55
				TOTAL (OXIDIZED)			2.45				0.87
				(UNOXIDIZED)			70.55				24.98

* Includes wash plant efficiency factor.

SAXON WEST I[illegible]RED RESERVES

PLANIMETER METHOD

SEAM	BLOCK	PLANIMETER AREA	FACTOR-250.000	AVERAGE DIP SECANT	AREA (SQ.M X 10^6)	AVERAGE THICKNESS (M)	VOLUME (CU. M X 10^6)	SP. GR.	COAL IN PLACE (METRIC TONS X 10^6)	GEOLOGICAL FACTORED COAL X 0.85	MINING RECOVERY FACTORED COAL X 0.70	WASH PLANT YIELD FACTORED COAL * X 0.70	NET CLEAN COAL (METRIC TONS X 10^6) 0.85 GEO-MINING FACTOR APPLIED
1	V(oxidized)	.045	11.250	1.051	0.01	7.31	0.09	1.45	0.13	0.11	0.08	0.06	0.05
	V(unoxidized)	12.380	3.095.000	1.074	3.32	5.40	17.47	1.45	25.53	21.53	15.07	10.55	8.97

BLOCK V: Area north of Narraway River and west of blocks 111 and 1V.

CROSS SECTION METHOD

SEAM	BLOCK	COAL SEAM LENGTH (cm.)	MAP SCALE FACTOR X 50 (M.)	AVERAGE THICKNESS (M.)	AVERAGE INFLUENCE (M.)	SP. GR.	COAL IN PLACE (METRIC TONS X 10^6)	GEOLOGICAL FACTORED COAL X 0.85	MINING RECOVERY FACTORED COAL X 0.70	WASH PLANT YIELD FACTORED COAL * X 0.70	NET CLEAN COAL (METRIC TONS X 10^6) 0.85 GEO-MINING FACTOR APPLIED
1	V(oxidized)	0.44	22.00	7.31	500	1.45	0.12	0.10	0.07	0.05	0.04
	V(unoxidized)	133.80	6690.00	5.32	511	1.45	26.39	22.43	15.70	10.99	9.34

* Includes wash plant efficiency factor.

SAXON SOUTH - PIT AREA INDICATED RESERVES

PLANIMETER METHOD

SEAM	BLOCK	PLANIMETER AREA (247.83147)	AVERAGE DIP SECANT	AREA (SQUARE METRES) X 10^6	AVERAGE SEAM THICKNESS (METRES)	VOLUME MILLIONS (CUBIC METRES) X 10^6	SPECIFIC GRAVITY	COAL IN PLACE (METRIC TONS) X 10^6	GEOLOGICAL FACTORED COAL (0.85)	MINING FACTORED COAL (0.90)	PLANT FEED COAL (+0.05% OUT OF SEAM DILUTION)	NET CLEAN COAL (METRIC TONS X 10^6) YIELD FACTOR (0.70) INCLUDES EFFICIENCY FACTOR
	A	0.655	1.12	0.733	3.92	2.90	1.45	4.20	3.57	3.21	3.37	2.36
1	B	0.720	1.22	0.880	3.61	3.17	1.45	4.60	3.91	3.51	3.69	2.58
	C	0.725	1.74	1.262	3.47	4.43	1.45	6.42	5.45	4.91	5.15	3.61
	A	0.655	1.11	0.730	6.27	4.58	1.45	6.65	5.65	5.08	5.34	3.74
2	B	0.743	1.53	1.134	5.12	5.80	1.45	8.40	7.14	6.42	6.74	4.72
	C	0.783	1.63	1.276	4.99	6.36	1.45	9.22	7.83	7.05	7.40	5.18
	A	0.694	1.15	0.798	2.19	1.75	1.45	2.53	2.15	1.93	2.03	1.42
3	B	0.635	1.39	0.882	1.79	1.58	1.45	2.29	1.94	1.75	1.84	1.29
	C	0.759	1.60	1.210	1.57	1.90	1.45	2.75	2.33	2.10	2.21	1.55
	A	0.549	1.20	0.655	9.23	6.05	1.45	8.77	7.45	6.70	7.04	4.93
4	B	0.384	1.40	0.537	7.54	4.05	1.45	5.87	4.98	4.49	4.72	3.30
	C	0.653	1.46	0.953	7.13	6.79	1.45	9.84	8.36	7.53	7.90	5.53
TOTAL								71.5				40.2

CROSS SECTION METHOD

SEAM	SEAM LENGTH (CM.)	AVERAGE SEAM THICKNESS (METRES)	COAL AREA (SQUARE METRES) X 10^6	AVERAGE SECTION A INFLUENCE (M)	VOLUME (CUBIC METRES) X 10^6	SPECIFIC GRAVITY	COAL IN PLACE (METRIC TONS) X 10^6	GEOLOGICAL FACTORED COAL (0.85)	MINING FACTORED COAL (0.90)	PLANT FEED COAL (+0.05% OUT OF SEAM DILUTION)	NET CLEAN COAL (METRIC TONS X 10^6) YIELD FACTOR (0.70) INCLUDES EFFICIENCY FACTOR
1	14119	4.888	.0690	189	13.043	1.45	18.913	16.076	14.468	15.192	10.60
2	15035	5.517	.0830	189	15.678	1.45	22.733	19.323	17.390	18.260	12.78
3	12120	1.9632	.0238	189	4.497	1.45	6.520	5.542	4.988	5.237	3.67
4	10634	7.9519	.0846	189	15.981	1.45	23.173	19.697	17.727	18.614	13.03
TOTAL			0.26	189	49.20	1.45	71.34	60.64	54.59	57.30	40.1

SAXON WEST EXPLORATION POTENTIAL

PLANIMETER AREA 79.45

x 250 000 PLANIMETER FACTOR = 19 862 500

x 1.058 AVERAGE DIP SECANT

= 21.03×10^6 SQ.M. AREA

x 18.00 ASSIGNED THICKNESS

= 378.61×10^6 CU.M. VOLUME

x 1.45 SPECIFIC GRAVITY

x 0.40 GEOLOGICAL FACTOR

= 219.6×10^6 METRIC TONS COAL IN PLACE

627

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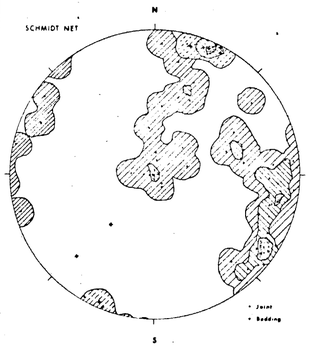
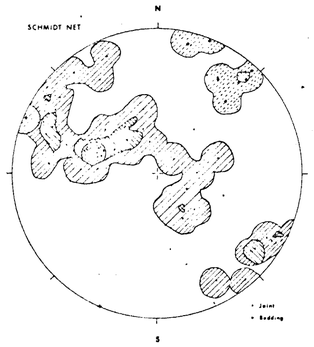


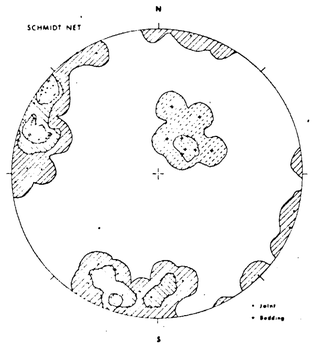
LOCATION: SAXON SOUTH
SITE: 13

NOTES: 203/85 bedding
302/62 joint, major
325/07 joint



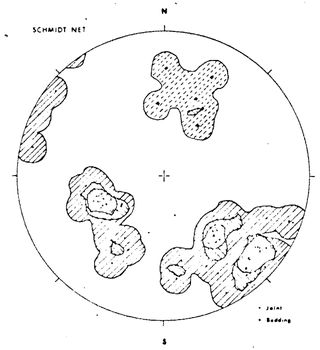
LOCATION: SAXON SOUTH
SITE: 14

NOTES: 271/74 bedding
123/33 joint
302/80 joint



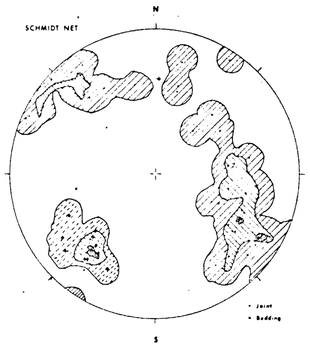
LOCATION: SAXON SOUTH
SITE: 15

NOTES: 223/25 bedding
110/80 joint, major
16/37 joint



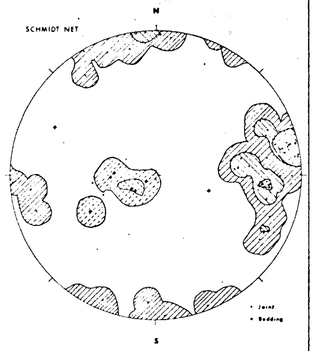
LOCATION: SAXON SOUTH
SITE: 16

NOTES: 271/78 bedding
68/37 joint
308/65 joint



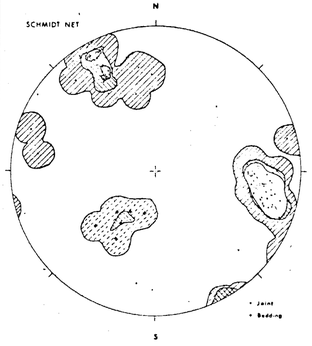
LOCATION: SAXON SOUTH
SITE: 17

NOTES: 42/60 bedding
306/57 joint



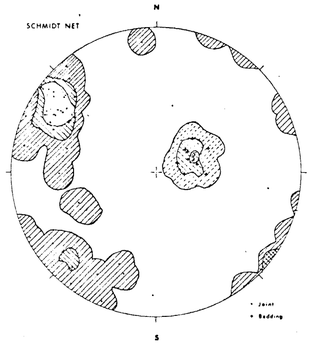
LOCATION: SAXON SOUTH
SITE: 18

NOTES: 75/37 bedding
257/79 joint, major
172/05 joint



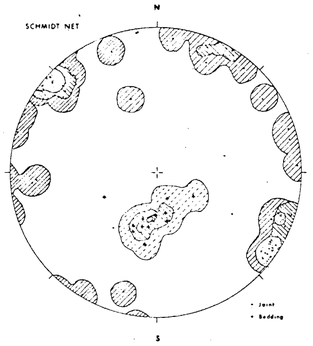
LOCATION: SAXON SOUTH
SITE: 19

NOTES: 33/37 bedding
281/66 joint, major
151/72 joint



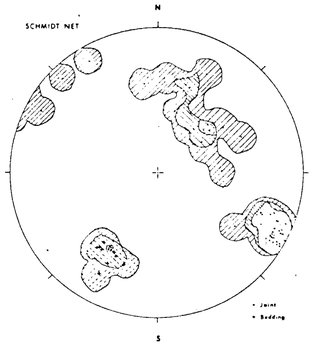
LOCATION: SAXON SOUTH
SITE: 20

NOTES: 247/20 bedding
122/73 joint, major
40/70 joint



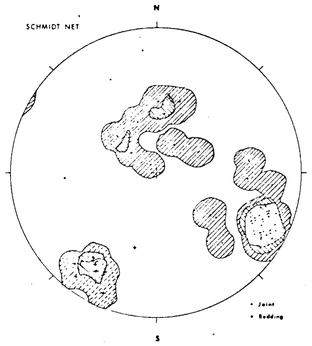
LOCATION: SAXON SOUTH
SITE: 21

NOTES: 8/27 bedding
302/85 joint, major
213/65 joint



LOCATION: SAXON SOUTH
SITE: 22

NOTES: 32/55 bedding
298/78 joint, major
230/36 joint



LOCATION: SAXON SOUTH
SITE: 23

NOTES: 36/65 bedding
296/70 joint, major
78/30 joint

627

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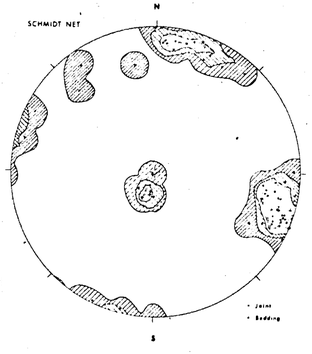
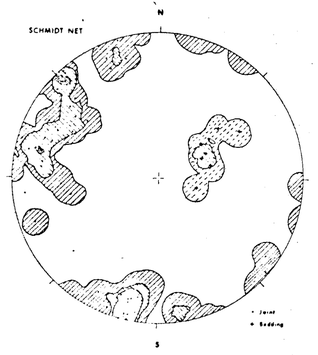


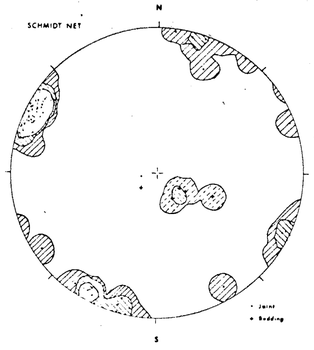
LOCATION: SAXON SOUTH
SITE: 1

NOTES: 21/3 bedding
287/89 joint, major
194/82 joint



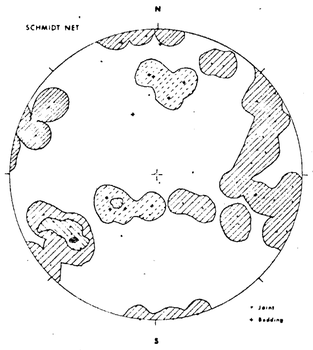
LOCATION: SAXON SOUTH
SITE: 2

NOTES: 246/30 bedding
13/01 joint, major
111/71 joint



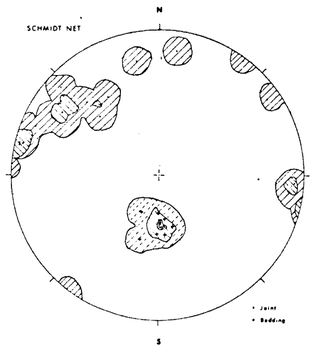
LOCATION: SAXON SOUTH
SITE: 3

NOTES: 319/13 bedding
117/5 joint, major
22/07 joint



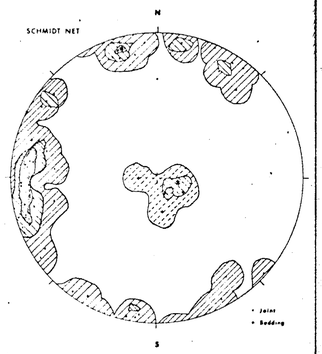
LOCATION: SAXON SOUTH
SITE: 4

NOTES: 50/27 bedding east limb
174/65 bedding, west limb
55/60 joint, west limb



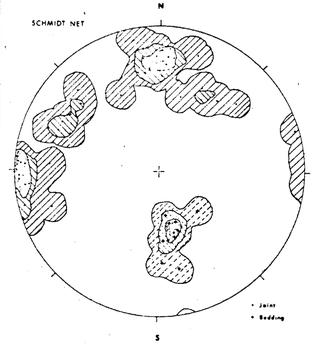
LOCATION: SAXON SOUTH
SITE: 5

NOTES: 14/28 bedding
176/77 joint, major
274/70 joint



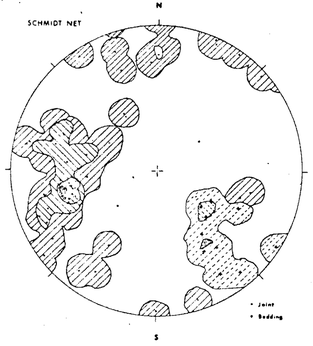
LOCATION: SAXON SOUTH
SITE: 6

NOTES: 315/10 bedding
02/60 joint



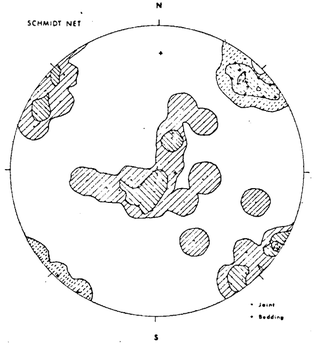
LOCATION: SAXON SOUTH
SITE: 7

NOTES: 342/36 bedding
90/88 joint, major
160/67 joint



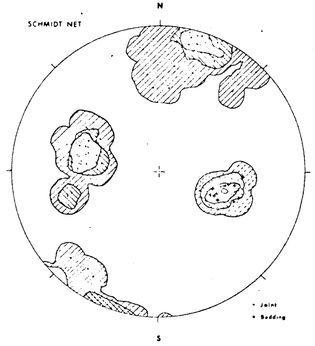
LOCATION: SAXON SOUTH
SITE: 8

NOTES: 310/46 bedding
76/55 joint



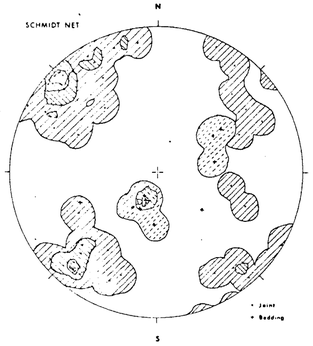
LOCATION: SAXON SOUTH
SITE: 9

NOTES: 224/75 bedding
130/00 joint
331/05 joint



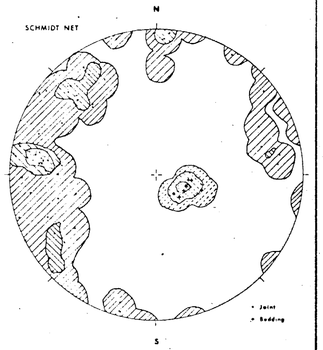
LOCATION: SAXON SOUTH
SITE: 10

NOTES: 207/38 bedding
104/45 joint
198/60 joint



LOCATION: SAXON SOUTH
SITE: 11

NOTES: East Limb West Limb
26/00 bedding 236/38
136/83 joint 132/62
232/74 joint 28/25



LOCATION: SAXON SOUTH
SITE: 12

NOTES: 291/18 bedding
04/68 joint
133/72 joint

APPENDIX V

SUMMARY OF DRILL HOLE DATA

SUMMARY ANALYSIS OF DRILL HOLE INTERSECTIONS
FROM DESCRIPTIVE LOGS AND GEOPHYSICAL LOG
RESPONSES TO DETERMINE SEAM THICKNESSES
FOR RESERVE CALCULATIONS

DRILL HOLE: 7601

SEAM	MINING SECTION RECOVERED CORE THICKNESS	MINING SECTION RADIATION LOG THICKNESS (GAMMA RAY NEUTRON AND/OR L.S. OR B.R. DENSITY	MINING SECTION SEAM INTERSECTION FOR RESERVE CALCULATION	CORE ANGLE	MINING SECTION TRUE SEAM THICKNESS FOR RESERVE CALCULATION
4	9.36	9.36	9.36	2°	9.36
3	1.65	1.65	1.65	2°	1.65
2	6.47	6.47	6.47	-	6.47
1	3.25	4.20	4.20	2°	4.20

DRILL HOLE: 7602

SEAM	MINING SECTION RECOVERED CORE THICKNESS	MINING SECTION RADIATION LOG THICKNESS (GAMMA RAY NEUTRON AND/OR L.S. OR B.R. DENSITY	MINING SECTION SEAM INTERSECTION FOR RESERVE CALCULATION	CORE ANGLE	MINING SECTION TRUE SEAM THICKNESS FOR RESERVE CALCULATION

REMARKS: Intersected seam No. 5 then a fault that brought up younger units of Shatesbury Formation and Hulcross and Boulder Creek Members of the Commotion Formation.

DRILL HOLE: 7603

SEAM	MINING SECTION RECOVERED CORE THICKNESS	MINING SECTION RADIATION LOG THICKNESS (GAMMA RAY NEUTRON AND/OR L.S. OR B.R. DENSITY	MINING SECTION SEAM INTERSECTION FOR RESERVE CALCULATION	CORE ANGLE	MINING SECTION TRUE SEAM THICKNESS FOR RESERVE CALCULATION
3	4.65	6.23	6.23	64°	2.72

REMARKS: Not deep enough to intersect seam Nos. 2 and 1.

DRILL HOLE: 1604

SEAM	MINING SECTION RECOVERED CORE THICKNESS	MINING SECTION RADIATION LOG THICKNESS (GAMMA RAY NEUTRON AND/OR L.S. OR B.R. DENSITY	MINING SECTION SEAM INTERSECTION FOR RESERVE CALCULATION	CORE ANGLE	MINING SECTION TRUE SEAM THICKNESS FOR RESERVE CALCULATION
4	7.70	11.72	11.72	27°	10.40
REMARKS: Uppermost part (.53 coal/.93 mudstone) not included in mining section.					
3	1.12	1.88	1.88	44°	1.38
REMARKS: Lowermost part (.35 mudstone/.06 coal) not included in mining section .					
2	7.13	9.14	9.14	30°	7.94
1	3.03	5.00	5.00	40°	3.84

DRILL HOLE: 7605

SEAM	MINING SECTION RECOVERED CORE THICKNESS	MINING SECTION RADIATION LOG THICKNESS (GAMMA RAY NEUTRON AND/OR L.S. OR B.R. DENSITY	MINING SECTION SEAM INTERSECTION FOR RESERVE CALCULATION	CORE ANGLE	MINING SECTION TRUE SEAM THICKNESS FOR RESERVE CALCULATION

REMARKS: Intersectal seam No. 10, thickness of which considered uneconomic.

DRILL HOLE: 7606

SEAM	MINING SECTION RECOVERED CORE THICKNESS	MINING SECTION RADIATION LOG THICKNESS (GAMMA RAY NEUTRON AND/OR L.S. OR B.R. DENSITY	MINING SECTION SEAM INTERSECTION FOR RESERVE CALCULATION	CORE ANGLE	MINING SECTION TRUE SEAM THICKNESS FOR RESERVE CALCULATION
4	6.68	9.86	9.86	42°	7.33
3	0.61	3.37	3.37	45°	2.38
REMARKS: Uppermost part (.85 coal/.141 mudstone) not included in mining section.					
2	4.95	8.19	8.19	43°	5.99
1	3.43	5.32	5.32	45°	3.76

DRILL HOLE: 7607

SEAM	MINING SECTION RECOVERED CORE THICKNESS	MINING SECTION RADIATION LOG THICKNESS (GAMMA RAY NEUTRON AND/OR L.S. OR B.R. DENSITY	MINING SECTION SEAM INTERSECTION FOR RESERVE CALCULATION	CORE ANGLE	MINING SECTION TRUE SEAM THICKNESS FOR RESERVE CALCULATION
4	6.68	7.88	7.88	32°	6.68
REMARKS: Uppermost part (.13 m. coal/.66 m. mudstone) and lower third were not included in mining section.					
3	1.43	2.40	2.40	31°	2.06
REMARKS: Lowermost part (0.27 m. mudstone/.0.15 m. coal) not included in mining section.					
2	3.09	6.02	6.02	40°	4.61
1	2.79	4.06	4.06	25°	3.68

DRILL HOLE: 7608

SEAM	MINING SECTION RECOVERED CORE THICKNESS	MINING SECTION RADIATION LOG THICKNESS (GAMMA RAY NEUTRON AND/OR L.S. OR B.R. DENSITY	MINING SECTION SEAM INTERSECTION FOR RESERVE CALCULATION	CORE ANGLE	MINING SECTION TRUE SEAM THICKNESS FOR RESERVE CALCULATION

REMARKS: Intersected seam Nos. 10 and 5, then a fault that brought up the younger unit of the Gates Member of the Commotion Formation.

DRILL HOLE: 7609

SEAM	MINING SECTION RECOVERED CORE THICKNESS	MINING SECTION RADIATION LOG THICKNESS (GAMMA RAY NEUTRON AND/OR L.S. OR B.R. DENSITY	MINING SECTION SEAM INTERSECTION FOR RESERVE CALCULATION	CORE ANGLE	MINING SECTION TRUE SEAM THICKNESS FOR RESERVE CALCULATION
4	2.68	2.79	2.79	16°	2.68
	REMARKS: Thin coal/carb. claystone sequence on top and coal/claystone mixture at bottom not included in mining section.				
3	REMARKS: Possible equivalent in hole consists of interbedded thin coal and claystone with a .54 m. coal base considered uneconomic.				
2	2.86	3.76	3.48	22°	3.48
	REMARKS: Lower part (.45 m. mudstone/.16 m. coal/.04 m. mudstone/.05 m. coal) not included in mining section.				
1	3.06	5.48	5.48	22°	5.08

DRILL HOLE: 7610

SEAM	MINING SECTION RECOVERED CORE THICKNESS	MINING SECTION RADIATION LOG THICKNESS (GAMMA RAY NEUTRON AND/OR L.S. OR B.R. DENSITY	MINING SECTION SEAM INTERSECTION FOR RESERVE CALCULATION	CORE ANGLE	MINING SECTION TRUE SEAM THICKNESS FOR RESERVE CALCULATION
4	5.20	9.09	9.09	25°	8.25
3	0.03	2.04	2.04	28°	1.80
	REMARKS:	Very poor core recovery			
2	5.53	6.59	6.59	25°	5.97
1	3.08	4.17	4.17	27°	3.73

DRILL HOLE: 7611

SEAM	MINING SECTION RECOVERED CORE THICKNESS	MINING SECTION RADIATION LOG THICKNESS (GAMMA RAY NEUTRON AND/OR L.S. OR B.R. DENSITY	MINING SECTION SEAM INTERSECTION FOR RESERVE CALCULATION	CORE ANGLE	MINING SECTION TRUE SEAM THICKNESS FOR RESERVE CALCULATION
4	5.82	9.81	9.81	22°	8.17
3	0.94	2.18	2.18	23°	2.00
2	4.527	5.46	5.46	20°	5.13
REMARKS: Uppermost part (0.85 m. coal/1.32 m. siltstone) not included in mining section.					
1	2.33	3.41	3.41	20°	3.20
REMARKS: Uppermost part (.019 m. coal/.033 claystone) not included in mining section.					

DRILL HOLE: 7612

SEAM	MINING SECTION RECOVERED CORE THICKNESS	MINING SECTION RADIATION LOG THICKNESS (GAMMA RAY NEUTRON AND/OR L.S. OR B.R. DENSITY	MINING SECTION SEAM INTERSECTION FOR RESERVE CALCULATION	CORE ANGLE	MINING SECTION TRUE SEAM THICKNESS FOR RESERVE CALCULATION
4	0.61	0.67	0.67	24°	uneconomic
3	0.85	0.88	0.88	13°	uneconomic
2	1.54	2.60	2.60	22°	uneconomic
REMARKS: Numerous rock bands interbedded with the coal.					
1	1.56	4.90	4.90	15°	4.73
REMARKS: Uppermost part and base not included in mining section.					

DRILL HOLE: 7613

SEAM	MINING SECTION RECOVERED CORE THICKNESS	MINING SECTION RADIATION LOG THICKNESS (GAMMA RAY NEUTRON AND/OR L.S. OR B.R. DENSITY	MINING SECTION SEAM INTERSECTION FOR RESERVE CALCULATION	CORE ANGLE	MINING SECTION TRUE SEAM THICKNESS FOR RESERVE CALCULATION

REMARKS: No mineable coal intersected including seam Nos. 10 and 5 which are too thin.

DRILL HOLE: 7614

SEAM	MINING SECTION RECOVERED CORE THICKNESS	MINING SECTION RADIATION LOG THICKNESS (GAMMA RAY NEUTRON AND/OR L.S. OR B.R. DENSITY	MINING SECTION SEAM INTERSECTION FOR RESERVE CALCULATION	CORE ANGLE	MINING SECTION TRUE SEAM THICKNESS FOR RESERVE CALCULATION
4	5.11	9.07	9.07	46°	6.30
REMARKS: Lowermost part (.58 m. claystone/.25 m. coal) not included in mining section.					
3	2.07	2.98	2.98	38°	2.34
2	1.49	4.34	4.34	28°	3.83
1	1.64	4.01	4.01	39°	3.12

DRILL HOLE: 7615

SEAM	MINING SECTION RECOVERED CORE THICKNESS	MINING SECTION RADIATION LOG THICKNESS (GAMMA RAY NEUTRON AND/OR L.S. OR B.R. DENSITY	MINING SECTION SEAM INTERSECTION FOR RESERVE CALCULATION	CORE ANGLE	MINING SECTION TRUE SEAM THICKNESS FOR RESERVE CALCULATION
4	3.05	7.36	7.36	31°	6.38

REMARKS: No. 4 seam was target for this hole.

DRILL HOLE: 7616

SEAM	MINING SECTION RECOVERED CORE THICKNESS	MINING SECTION RADIATION LOG THICKNESS (GAMMA RAY NEUTRON AND/OR L.S. OR B.R. DENSITY	MINING SECTION SEAM INTERSECTION FOR RESERVE CALCULATION	CORE ANGLE	MINING SECTION TRUE SEAM THICKNESS FOR RESERVE CALCULATION
4	1.31	2.96	2.96	19°	2.77
3	1.48	2.96	2.96	23°	uneconomic
REMARKS: Numerous rock bands in coal.					
2	1.24	3.16	3.16	16°	3.04
1 upper	1.80	2.30	2.30	10°	2.27
1 lower	1.52	1.84	1.84	8°	1.82

DRILL HOLE: 7617

SEAM	MINING SECTION RECOVERED CORE THICKNESS	MINING SECTION RADIATION LOG THICKNESS (GAMMA RAY NEUTRON AND/OR L.S. OR B.R. DENSITY	MINING SECTION SEAM INTERSECTION FOR RESERVE CALCULATION	CORE ANGLE	MINING SECTION TRUE SEAM THICKNESS FOR RESERVE CALCULATION
4	3.07	6.94	6.94	20°	6.53+

REMARKS: Hole bottomed in coal, abandoned because of excessive caving.

DRILL HOLE: 7618

SEAM	MINING SECTION RECOVERED CORE THICKNESS	MINING SECTION RADIATION LOG THICKNESS (GAMMA RAY NEUTRON AND/OR L.S. OR B.R. DENSITY	MINING SECTION SEAM INTERSECTION FOR RESERVE CALCULATION	CORE ANGLE	MINING SECTION TRUE SEAM THICKNESS FOR RESERVE CALCULATION
4	7.13	12.99	12.99	55°	7.27

REMARKS: No. 4 seam was target for this hole.

DRILL HOLE: 7619

SEAM	MINING SECTION RECOVERED CORE THICKNESS	MINING SECTION RADIATION LOG THICKNESS (GAMMA RAY NEUTRON AND/OR L.S. OR B.R. DENSITY	MINING SECTION SEAM INTERSECTION FOR RESERVE CALCULATION	CORE ANGLE	MINING SECTION TRUE SEAM THICKNESS FOR RESERVE CALCULATION
4	1.04	5.50	5.50	26°	4.95
2	1.91	2.60	2.60	25°	2.36
REMARKS: Uppermost part (.52 m coal/.29 m. claystone) not included in mining section.					
1	3.19	5.20	5.20	15°	5.07
REMARKS: Lower third (.29 m. coal/1.02 claystone/1.22 m. coal) not included in mining section.					

DRILL HOLE: 7620

SEAM	MINING SECTION RECOVERED CORE THICKNESS	MINING SECTION RADIATION LOG THICKNESS (GAMMA RAY NEUTRON AND/OR L.S. OR B.R. DENSITY	MINING SECTION SEAM INTERSECTION FOR RESERVE CALCULATION	CORE ANGLE	MINING SECTION TRUE SEAM THICKNESS FOR RESERVE CALCULATION
4	0.52	2.31	2.31	25°	2.10

REMARKS: Upper half not included in mining section.

APPENDIX VI

BURNETT RESOURCE SURVEYS LTD.

METHODS AND PROCEDURES OF AERIAL PHOTOGRAPHY
CONTROL SURVEY AND MAPPING CARRIED OUT DURING
1976 ON BEHALF OF
SAXON COAL LIMITED

METHODS AND PROCEDURES OF AERIAL PHOTO SURVEY, CONTROL SURVEY AND MAPPING CARRIED OUT DURING 1976 ON BEHALF OF SAXON COAL LIMITED

J. Kende
Burnett Resource Surveys Ltd.

At the request of Denison Coal Limited, Burnett Resource Surveys Ltd. undertook a program of aerial photography and topographic mapping to provide a data base and photographic resources for the Saxon coal property.

This program was designed to:

1) Carry out photogrammetric mapping at 1:5000 and 1:2500 scales and at 5 m and 2 m intervals;
2) Provide suitable photography for intensive environmental surveys;
3) Provide photos for geological studies;
4) Allow the refinement of transportation routes and infrastructure layout within the property.
5) Prepare topographic plans for plant, town and local infrastructure;

Keeping all the above in mind, the following program was designed:

1) Low level photography over approximately 25 sq. miles at 1:10000 approximate scale covering the Saxon South and adjacent areas. The above photography was black/white photography on panchromatic film.
2) Low level colour photography at the approximate scale of 1:10000 covering the property. Colour photography utilized an aero-colour film 2448.
3) High level black/white photography at 1:25000 covering the property and flown at the end of the 1975 field season, was also employed.

The various photo scales were selected in such a manner as to be suitable for various purposes, especially compilation of metric photogrammetric maps.

The black and white photography was carried out in the month of July and the colour photography in September of 1976, the latter time selected so that much of the groun work was completed. Thus, diamond drill holes, road locations and target locations could be documented.

A set of black and white prints was dispatched, immediately after photography, to Denison Coal Limited, so that these could be utilized in the field by the geologists as well as the survey crews for the remainder of the season..

Control Survey

During the summer, ground crews undertook survey control work on the property. In June, Denison's staff laid targets on the ground. This work required a helicopter to provide transport to points of difficult access. In all, approximately 80 targets were set to control the topographic mapping. The ground parties surveyed the location of selected targets; others were simply located on the topographic maps for later use by geological mapping crews.

The surveyors employed the most modern electronic survey equipment, in addition to conventional equipment.

All surveys are now based on U.T.M. co-ordinates (geodetic datum).

All co-ordinates are tabulated in the metric system. However, map sheets are on the National topographic system so that each basic 1:2500 scale sheet conforms exactly to coal license boundaries.

Photogrammetric Mapping

Burnett Resource Surveys Ltd. undertook photogrammetric mapping of the Saxon property, based on data established during 1975. The scales chosen were 1:5000 with a 5 metre contour interval and 1:2500 with a 2 metre contour interval. 1:5000 scale map sheets were designed in such a manner that each sheet consisted of four coal licenses. All maps were produced to the highest standards with regard to photogrammetry and cartography. The 1:5000 scale maps were then utilized by the field geologist during the summer program. The latter part of the season was spent preparing the 1:2500 scale maps covering the Saxon South area for which air photography and ground surveying had been carried out earlier in the summer.

To facilitate environmental studies, colour as well as the black/white photography was provided.

The whole of the Saxon property was flown during the latter part of the season using colour photography. This survey will allow the bulk of the 1976 exploration program to be documented on the various topographic maps.

From this survey colour transparencies were prepared and supplied to Denison Coal Limited. A selected set of colour prints to be used as field exploration tools produced from the transparencies has also been prepared for Denison Coal Limited.

APPENDIX VII

PRELIMINARY TERRAIN CLASSIFICATION OF THE SAXON AREA

Introduction

The terrain classification map of the Saxon Area has been prepared using airphoto interpretation supported by field observations at Saxon South, Saxon Creek and the Saxon Ridge Road from the campsite to Narraway River. In particular, there were no field observations of the proposed townsite areas. The townsites were inspected by Montreal Engineering in a separate study.

Engineering site selections will ultimately consider the location relative to related structures or activities, foundation soil properties, depth to bedrock, seasonal groundwater levels, nearby rock or soil slope stability and possible snow avalanche risk. The terrain classification map is a guide to these expected foundation conditions.

General Comments

The Saxon area is located within the Rocky Mountain foothills region. The upper ridges are steep and often serrated by numerous cirque basins. Below the ridge tops and towards treeline the terrain becomes less steep with a correspondingly thicker cover of colluvium and/or a thin layer of till. Treeline was chosen to be the upper boundary of the morainal blanket common to the valleys. Thick ground moraine is also associated with cirque basins, one small example of which is found at Saxon South. Major valleys such as the Narraway and Belcourt are richly endowed with gravelly terraces and alluvial fans. Terrain and landforms of the Saxon area show significant influence from glaciation.

Narraway Valley

The townsite and other structures are likely to be constructed in Narraway Valley and on till soil or over sand and gravel deposits. A well drained dense till soil or the internally drained high terraces in the valley are excellent building sites. Reclamation through drainage of low swampy areas may be possible at the proposed townsite. These wet areas tend to be groundwater discharge zones and water may be a constant problem. Secondly, if the drained soil contains clay, the clay tends to retain moisture and may cause the soil to liquefy upon being worked. More specific surface and subsurface work is required in this area before definite planning is done.

Saxon Creek

Saxon Creek valley, central to the coal operation, is of particular interest. The soil is dominately a morainal blanket or veneer with areas of shallow underlying bedrock. The terrace-like landform near the creek denotes a lacustrine deposit of soft silty clay. The Saxon South access road across this material has found the clay to be relatively weak and sensitive to disturbance. As this area is presently being considered for the major plant site and rail terminal infrastructure, a significant amount of foundation study will be required. Heavy structures here will probably use pile supports to bedrock. The wide flat area near the present campsite, which may be considered as a location for plant sites or mine entries, is subject to occasional flooding and has a shallow groundwater table. The borrrow potential of the low creek terraces is poor since the gravel size gradation is variable and boulder content high.

PR SAXON 76 (3) A-2

SAXON COAL LTD

APP XI op. Denison Mines Ltd.

D.H. 7611 - 7613

PROJECT SAXON

HOLE NO. 76 - 11 BEARING [illegible] ANGLE [illegible]

COLLAR ELEVATION [illegible] TOTAL DEPTH [illegible] m

OPEN FILE
GEOLOGICAL BRANCH
ASSESSMENT REPORT
00627

Seam No. 5 Structure Contour Elevation

Coal Interval 9.395-10.820 16° Dip (Geophysical Log Pick)

Coal Thickness 1.370 Isopach Not mineable 1.37

Core Data:

A. Coal Present 0.732 Rock Present Total rock

Coal Absent 0.638 Rock Absent -

Total Coal 1.370 Total Rock-

Grand Total 1.32m

B. Rock/Coal -

C. % Core Recovery 53.43

Seam No. 4 Structure Contour Elevation

Coal Interval 50.745 - 59.555 22° Dip (Geophysical Log Pick)

Coal Thickness Isopach 8.17 Total mineable

.37 total rock

Core Data:

A. Coal Present 5.451 Rock Present 0.371

Coal Absent 2.345 Rock Absent -

Total Coal 7.796 Total Rock 0.371

Grand Total 8.167m

B. Rock/Coal 0.048

C. % Core Recovery 71.29

Seam No. 3 Structure Contour Elevation

Coal Interval 117.930 23° Dip (Geophysical Log Pick)

Coal Thickness Isopach 2.00 not mineable

.48 total rock

Core Data:

A. Coal Present 0.451 Rock Present 0.484

Coal Absent 1.067 Rock Absent -

Total Coal 1.518 Total Rock 0.484

Grand Total 2.002m

B. Rock/Coal 0.319

C. % Core Recovery 46.70

Coal Interval 144.380-149.840 20° Dip (Geophysical Log Pick)

Coal Thickness _____ Isopach 5.13 Total mineable
.44 total rock

Core Data:

A. Coal Present 4.176 Rock Present 1.756

Coal Absent .602 Rock Absent -

Total Coal 4.778 Total Rock 1.756

Grand Total 6.534m

B. Rock/Coal 0.368

C. % Core Recovery 90.79

Seam No. 1 Structure Contour Elevation _____

Coal Interval 166.375-169.780 20° Dip (Geophysical Log Pick)

Coal Thickness _____ Isopach 3.20 total mineable
.15 total rock

Core Data:

A. Coal Present 2.199 Rock Present 0.179

Coal Absent 0.873 Rock Absent -

Total Coal 3.072 Total Rock 0.179

Grand Total 3.251m

B. Rock/Coal 0.058

C. % Core Recovery 73.15

Seam No. _____ Structure Contour Elevation _____

Coal Interval _____ (Geophysical Log Pick)

Coal Thickness _____ Isopach _____

Core Data:

A. Coal Present Rock Present

Coal Absent _____ Rock Absent _____

Total Coal Total Rock

Grand Total _____

B. Rock/Coal _____

C. % Core Recovery _____

Seam No. _____ Structure Contour Elevation _____

Coal Interval _____ (Geophysical Log Pick)

Coal Thickness _____ Isopach _____

Core Data:

A. Coal Present Rock Present

Coal Absent _____ Rock Absent _____

Total Coal Total Rock

Grand Total _____

B. Rock/Coal _____

C. % Core Recovery _____

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

DR1510

HOLE No: SD-7611 SHEET No 1

DATE BEGUN: Sept. 28, 1976 DEPTH: BEARING: 040° UTM

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: 70° LOGGED BY: C. Mankowski CORE SIZE: HQ

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m	RECOVERY m-Rec	RECOVERY %
								Top of Box				
	6.16	7.195	1.035					Siltstone - med. grey, severely broken 2m			1.035	
							25 / 7.62					
	7.195	7.260	0.065					As above - traces of rusty weathering			0.065	
		7.285						Carbonaceous claystone - friable with coaly inclusions			0.025	
		7.325						Claystone - light grey			0.040	
		8.220						Siltstone - a few hairline $CaCO_3$ filled fractures. Medium grey. Traces of rusty weathering.			0.895	
		8.750						As above with occasional claystone bands.			0.530	
		8.800					30 / 9.144	Coal - d.l. banded. Pulverised			0.050	
		8.810						Claystone with coaly laminae			0.010	
		9.060						Siltstone - massive bedded, traces of rusty weathering			0.250	
		9.310						Carbonaceous claystone - friable with some drillers mud, traces of sulphur stain, FeO, occasional coaly bands			0.250	
							32 / 9.754					

Form 71-1150-R02

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No. SD - 7611 SHEET No 2

DATE BEGUN: DEPTH: BEARING: U.T.M.

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT Thick	UNIT True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY In	RECOVERY m	RECOVERY m. Rec.	RECOVERY %
		9.395						As above			0.085	
	9.395	10.045	0.650	0.625				Coal - dull, slightly sheared Top Box 2			0.650	
		10.156	.111	.107				As above; heavily sheared coal			0.111	
		10.820	.664	.638				Core loss - pulverised			0.664	*
							30 10.973					
		11.285	.465					Carbonaceous claystone with a few coaly laminae			0.465	
		11.422						Core loss			0.137	*
		12.212						Sandstone - fine grained with silty laminae bedding convoluted			0.790	
		12.497						Siltstone - sandy; occasional coaly stringer			0.285	
							41.5 12.650					
		12.542						Clay - unconsolidated with claystone fragments			0.045	
24° at base		13.027						Siltstone - sandy at base - massive			0.485	
		14.087						Sandstone - fine grained; traces of rusty weathering; few silty convoluted laminae			1.060	
							46.5 14.173					
		14.537						As above - occasional $CaCO_3$ filled fracture			0.450	
		14.987						Siltstone; sandy; massive traces of rusty weathering slickensides at top U.C.A. -15° U.C.A. in middle 61° Top Box 3			0.450	

Form 71-1150-RJ2

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE NSD-7611 SHEET No 3

DATE BEGUN: DEPTH: BEARING: U.T.M

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC LOG	MARKER	DESCRIPTION	RECOVERY Int	RECOVERY m	RECOVERY m Rec	RECOVERY %
		15.377						As above			0.390	
							50					
							15.24					
		15.712						Siltstone; massive			0.335	
		15.987					52	* CORE LOSS			0.275	*
							15.850					
28°		17.572						Siltstone - as above			1.585	
55							56.5					
from							17.221					
base												
		18.252						As above			0.680	
		18.322						Claystone			0.070	
		19.027						Siltstone; massive			0.705	
							61.5					
							18.745					
		19.412						As above			0.385	
								Top Box 4				
		20.507						As above - sandy towards base			1.095	
26°		20.637						Sandstone - very fine grained			0.130	
							66.5					
							20.269					
		20.785						As above			0.148	
		21.199						Siltstone - sandy at base			0.414	
		21.414						Sandstone, medium grained; 2 small $CaCO_3$ oxidized traces				
		21.501						* CORE LOSS			0.087	*

Form 71-0150-R02

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD - 7611 SHEET No 4

DATE BEGUN: DEPTH: BEARING: U.T.M

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m. Rec.	RECOVERY %
	21.501	22.281						Sandstone - fine grained, some crossbedding and convoluted beds			0.780	
							72					
							21.946					
25°		23.901						Sandstone - very fine grained relatively massive bedding			0.720	
		23.186						Claystone -			0.185	
		23.766						Sandstone - very fine grained as above			0.580	
								Top Box 5				
		24.901						As above; very silty			1.135	
		25.296						Sandstone - fine grained; occasional $CaCO_3$ fracture fills			0.395	
							82					
							24.994					
		26.856						As above - a few silty bands and laminae a few $CaCO_3$ fracture fills, traces of rusty weathering			1.560	
							87					
							26.518					
24°		27.626						Sandstone - becoming silty towards base planear bedding			0.770	
		28.026						Siltstone - sandy, massive bedded			0.4000	
								Top Box 6				

Form 71-1150-RJ2

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No. SD - 7611 SHEET No. 5

DATE BEGUN: DEPTH: BEARING: U.T.M.

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY In	RECOVERY m	RECOVERY m-Rec	RECOVERY %
	28.026	28.368						As above			0.342	
							92					
							28.042					
		31.458						Rock as above; occasional calcite fracture			3.090	
							102					
							31.090					
27° at top		32.308						Siltstone - relatively massive bedding			0.850	
								Top Box 7				
		33.068						As above - sandy			0.760	
							107					
							32.614					
		34.523						Siltstone sandy; planear bedded			1.455	
		34.592						CORE LOSS			0.069	
							112					
							34.138					
22° at top		35.192						Siltstone - very sandy 50%; traces of rusty weathering			0.600	
		36.082						As above - core highly broken			0.200	
		36.282						Sandstone - fine grained; occasional $CaCO_3$ fill; traces of rusty weathering			0.890	
							117					
							35.662					

Form 71-1150-R02

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7611 SHEET No 6

DATE BEGUN: DEPTH: BEARING: U.T.M

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thric	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int	RECOVERY m	RECOVERY m Rec	RECOVERY %
	36.282	36.612						Sandstone - very fine grained interbedded			0.330	
								Top Box 8				
		36.792						As above			0.180	
		36.881						* CORE LOSS			0.089	*
		37.806						Siltstone - very sandy			0.925	
							122					
							37.186					
		38.146						Sandstone - fine grained with cross-bedded, silty laminae 30%			0.340	
		40.901						Sandstone - fine to medium grained with very thin silty laminae, and some carbonaceous inclusions, becoming cleaner towards base, some rusty weathering; $CaCO_3$ fracture fills towards base			2.755	
							132					
							40.234					
		41.006						As above with calcite fractures			0.105	
								Top Box 9				
25° 44mm from top		43.916						Sandstone - very fine grained with silty laminae in bands - 40% rare calcite fractures			2.910	
							142					
							43.282					

Form 71-1150-R02

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7611 SHEET No 7

DATE BEGUN: DEPTH: BEARING: U.T.M

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC LOG	MARKER	DESCRIPTION	RECOVERY Int	RECOVERY m	RECOVERY m Rec	RECOVERY %
	43.916	45.366						Rock as above			1.450	
		46.961					152 46.330	As above - vert cal fractures with rusty weathering at top. Top Box 10			1.595	
		47.511						As above with rusty weathering			0.550	
		47.560						* CORE LOSS			0.049	*
27° at top		48.485					157 47.854	Siltstone with sandy laminae			0.925	
		49.585						Siltstone - relatively massive bedded - a few $CaCO_3$ fractures at base - J.C.A. 67° Top Box 11			1.100	
			22°	.927								
		49.960						Siltstone - relatively massive bedded			0.375	
		49.995	.035	.032			162 49.378	Claystone - carbonaceous, few coaly laminae			0.035	
22° at base		50.745	.750	.695				Silty claystone - occasional coaly laminae			0.750	
		50.815	.070	.065			167 50.902	Coaly - dull and bright, pulverised			0.070	
		50.900	.085	.079		4.1.1		Coal - bright banded, highly broken			0.085	

Form 71 1150-RJ2

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7611 SHEET No 8

DATE BEGUN: DEPTH: BEARING: U.T.M

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC LOG	MARKER	DESCRIPTION	RECOVERY Int	RECOVERY m	RECOVERY m Rec	RECOVERY %
		51.010	.110	.102				Coal - d.l.l. banded			0.110	
		51.075	.065	.060				Coal - d.l.l., pulverised, 30% drillers mud			0.065	
	51.075	51.499	.424	.393		4.1		CORE LOSS			0.424	
		51.549	.050	.046				Coal - d.l.l. and bright			0.050	
		51.609	.060	.056				Claystone - carbonaceous - occasional coaly laminae			0.060	
		51.704	.095	.088				Claystone			0.095	
		51.799	.095	.088				Silty Claystone			0.095	
		51.869	.070	.065		4.2.1		Claystone - cabonaceous - coaly laminations 20%			0.070	
		51.914	.045	.042				Coal - d.l.l. - slightly sheared, 25% ash			0.045	
		51.994	.080	.074				Claystone - carbonaceous, coaly laminations			0.080	
		52.269	.275	.255				Coal - bony, bright coaly laminae			0.275	
		52.339	.070	.065		4.3.1		Coal - d.l.l. and bright, 10% ash			0.070	
							.172 52.426					
		52.419	.080	.074				Coal - d.l.l. banded, broken			0.080	
		52.529	.110	.102				Coal - d.l.l. banded, metallic lustre, 25% ash			0.110	
		52.654	.125	.116				Coal - bony			0.125	
		52.699	.045	.042				Coal - bright			0.045	

Form 71-1150-RJ2

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No SD-7611 SHEET No 9

DATE BEGUN: DEPTH: BEARING: U.T.M.

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int	RECOVERY m	RECOVERY m Rec	RECOVERY %
		52.734	.035	.032				Coal - d.l., metallic lustre, 30% ash			0.035	
		52.829	.095	.088				Coal - d.l. and bright, highly broken			0.095	
		53.357	.528	.490				CORE LOSS			0.528	
		53.402	.045	.042				Coal - bright banded, calcite traces			0.045	
		53.482	.080	.074		4-3-1		Coal - d.l. banded, metallic lustre 20% ash			0.080	
		53.532	.050	.046				Coal - bony			0.050	
		53.612	.080	.074				Coal - d.l. banded, severely broken			0.080	
		53.737	.125	.116				Coal - d.l. banded			0.125	
		53.848	.111	.103				Coal - bony			0.111	
								Top of Box 12				
		53.928	.080	.074				Coal - d.l. banded, metallic lustre 15% ash			0.080	
		53.998	.070	.065				As above			0.070	
		54.158	.160	.148				Coal - d.l., metallic lustre, 15% ash			0.160	
		54.308	.150	.139				Coal - d.l. banded, metallic lustre			0.150	
		54.363	.055	.051		4-3-2		As above			0.055	
							177					
							53.950					
		54.973	.615	.570				Coal - d.l. banded, slightly sheared			0.615	
		55.691	.713	.661				CORE LOSS			0.713	*
		55.731	.040	.037		4-3-3		Coal - d.l. banded, 15% ash, metallic lustre			0.040	

Form 71-1150-R02

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No. SD-7611 SHEET No 10

DATE BEGUN: DEPTH: BEARING: U.T.M

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC LOG	MARKER	DESCRIPTION	RECOVERY Int	RECOVERY m	RECOVERY m Rec	RECOVERY %
		55.966	.235	.218				Coal - d.l. banded, metallic lustre 15% ash			0.235	
		56.181	.215	.199		4.3.3		Coal - d.l. banded			0.215	
		56.426	.245	.227				Coal - d.l., metallic lustre, 20% ash			0.245	
							182					
							55.474					
		56.586	.160	.148				Coal - d.l. banded, 15% ash			0.160	
		56.651	.065	.060				Coal - d.l. highly broken, slightly sheared			0.065	
		56.820	.169	.157				* CORE LOSS			0.169	*
		57.085	.265	.246				Coal - d.l. banded, metallic lustre, 15% ash			0.265	
		57.250	.165	.153				Coal - d.l. banded, slightly sheared			0.165	
		57.295	.045	.042				As above			0.045	
		57.405	.110	.102				Coal - d.l. and bright, metallic lustre, 15% ash			0.110	
		57.505	.100	.093				Coal - d.l. banded			0.100	
		57.785	.280	.280				Coal - d.l. metallic lustre			0.280	
		57.950	.165	.153				Coal - d.l. and bright, slightly sheared			0.165	
							187					
							56.998					
		58.400	.450	.417				Coal - d.l. and bright, broken at base			0.450	
								Top of Box 13				
		59.095	.695	.644				* CORE LOSS			0.695	*
		59.475	.380	.352		4.3.4		Coal - d.l. and bright, slightly sheared, broken			0.380	

* from geophysics 59.475

Form 21-1100-R02

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD - 7611 SHEET No 11

DATE BEGUN: DEPTH: BEARING: U.T.M

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int	RECOVERY m	RECOVERY m. Rec	RECOVERY %
						4.3.4	192					
	59.475	59.555	.080	.074			58.523	Coal - sheared and pulverized			0.080	
		59.755						Claystone - broken			0.200	
		59.920						Core loss (Claystone)			0.165	
							194					
							59.131					
		60.105						Claystone - few coaly laminae			0.185	
							195					
							59.741					
24° at base		60.655						Claystone			0.550	
							198					
							60.350					
		61.530						Silty claystone			0.875	
		62.725						Siltstone - interbedded			1.195	
								Top of Box 14				
		63.105						As above			0.380	
							207					
							63.094					
23° at top		63.805						Siltstone - planar bedded			0.700	
		64.105						Silty claystone - occasional coaly laminae			0.300	
		64.125						Coal - stoney			0.020	
		64.270						Coal - dull metallic lustre			0.145	

Form 71-1150-R.V.2

DENISON COAL LIMITED

DIAMOND DRILL CORE LOG

HOLE No SD - 7611 SHEET No 11a

DATE BEGUN: DEPTH: BEARING: U.T.M.

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m. Rec.	RECOVERY %
		64.305						Coal - d.l.l and bright, highly broken			0.035	
		64.315						Coal - woody, highly broken			0.010	
		64.355						Coal - d.l.l and bright, highly broken			0.040	
		64.970						Core Loss			0.615	
		65.105						Coal - d.l.l banded, highly broken			0.135	
							212 / 64.618					
		65.145						Coal - d.l.l banded, pulverized			0.040	
		65.445						Core Loss			0.300	
		65.485						Coal - bony with many thin bright laminae, broken			0.040	
		65.705						Coal - bright banded			0.220	
		65.805						Coal - d.l.l and bright from geophysics 65.805			0.100	
		65.960						Claystone - very carbonaceous with many thin coaly laminae			0.155	
							215.5 / 65.684					
		66.240						Claystone - slightly carbonaceous, massive			0.280	
		66.345						Core Loss			0.105	
							216.5 / 65.989					
		66.755						Siltstone			0.410	
		67.055						Sandstone - very fine grained			0.300	

Form 71 1170 R02

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7611 SHEET No 12

DATE BEGUN: DEPTH: BEARING: U.T.M

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Inl	RECOVERY m	RECOVERY m. Rec	RECOVERY %
		67.505						Siltstone			0.450	
								Top of Box 15				
		67.795						Sandstone - very fine grained			0.290	
							221					
							67.36					
		69.410						Siltstone			1.615	
							226					
							68.885					
18° 0.34m from top		70.165						Siltstone - sandy, rel. planar bedded			0.755	
		70.745						Siltstone			0.580	
		70.830						Coal - d.l. banded, 35% ash			0.085	
		71.015						Coal - d.l. and bright, highly broken			0.185	
							231.5					
							70.561					
		71.045						As above			0.030	
		71.110						Claystone - few coaly laminae			0.065	
		71.125						Coal - d.l. and bright, pulverized			0.015	
		71.335						Silty claystone - traces of pyrite			0.210	
								Top of Box 16				
		71.405						Clay - unconsolidated, light grey, fragments of caronaceous shale.			0.070	

Form 71-1150-R32

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD - 7611 SHEET No 13

DATE BEGUN: DEPTH: BEARING: U.T.M.

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int	RECOVERY m	RECOVERY m. Rec	RECOVERY %
18° 3m from top		72.490						Sandstone - fine grained to medium grained, fairly massive and clean			1.085	
							237 / 72.238					
		74.020						As above			1.530	
							242 / 73.762					
		74.320						As above			0.300	
		74.925						Sandstone - fine grained, fairly massive, occasional carbonaceous fragments			0.605	
		75.385						Sandstone - very fine grained, massive			0.460	
		75.530						Silty claystone			0.145	
		75.560						Silty mudstone - few coaly bands, severely broken			0.030	
		75.815						* CORE LOSS			0.255	*
							247 / 75.286					
								Top of Box 17				
25° at base		76.765						Siltstone - massive			0.950	
		77.055						Sandstone - fine grained, joint at top J.C.A. = 80°			0.290	
							252 / 76.810					
		77.105						Clay - unconsolidated, containing siltstone fragments			0.050	
		78.455						Silty claystone - slightly sheared			1.350	
							257 / 78.334					
		79.715						Siltstone - massive			1.260	

Form 71-1150-R.J2

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE NSD - 7611 SHEET No 14

DATE BEGUN: DEPTH: BEARING: U.T.M.

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int	RECOVERY m	RECOVERY m. Rec	RECOVERY %
								Top of Box 18				
							262 / 79.858					
		79.865						Siltstone - severely broken			0.150	
		80.070						Sandstone - very fine grained			0.205	
		80.820						Siltstone - sandy			0.750	
		81.045						Sandstone - very fine grained slightly convoluted			0.225	
		81.335						As above			0.290	
							266.5 / 81.229					
18° at top		81.830						Sandstone - fine grained, few silty laminae bedding convoluted - irregular, occasional calcite fratures. J.C.A. at 65°			0.495	
		82.230						Siltstone - sandy			0.490	
		82.830						Sandstone - very fine grained, occasional calcite fractures, traces of rusty weathering			0.510	
							272 / 82.906					
33° at top		83.740						Sandstone - very fine grained, relatively planar bedded, occasional hairline calcite fracture.			0.910	
								Top of Box 19				
		84.450						As above			0.710	
							277 / 84.430					

Form 71-NSD-RJ2

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7611 SHEET No 15

DATE BEGUN: DEPTH BEARING: U.T.M

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Inl	RECOVERY m	RECOVERY m-Rec	RECOVERY %
22° at top		84.930						Sandstone - fine grained, fairly massive and clean			0.480	
		86.070						Siltstone - sandy, slightly convoluted bedding J.C.A. 80°			.140	
							282 85.950					
		87.660						Siltstone - slightly convoluted bedding, sandy			.590	
							287 87.470					
		87.950						As above - traces rusty weathering on joint surface, J.C.A. 80°.			0.290	
								Top of Box 20				
		89.280						As above - occasional hairline calcite fracutres with rusty weathering			.330	
							292 89.002					
		90.150						Silty claystone			0.870	
		90.400						CORE LOSS			0.250	
		90.730						Siltstone - very fine grained, massive			0.330	
							247 90.520					
		90.940						As above			0.210	
22° 0.4 from base		92.090						Sandstone - very fine grained, relatively massive, fine grained towards base			150	
							302 92.050					
		92.335						Sandstone - fine grained, minor cross-bedding			0.245	
								Top of Box 21				

Form 71-1152-802

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD - 7611 SHEET No 16

DATE BEGUN: DEPTH BEARING: U.T.M

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thic	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY In	RECOVERY m	RECOVERY m. Rec	RECOVERY %
		93.685						Sandstone - very fine grained with 100 m siltstone band .4 m from top, otherwise relatively clean.			1.350	
							307 93.574					
		93.835						As above			0.150	
		93.960						Siltstone - single bedding, calcite fracture			0.125	
		94.310						Sandstone - very fine grained, laminated, relatively planar			0.350	
		95.105						Sandstone - fine grained, slightly laminated			0.795	
							312 95.098					
		95.345						Siltstone - sandy, massive			0.240	
15° 0.27m from base		96.215						Sandstone - very fine grained, relatively clean and massive			0.870	
		96.515						Siltstone - laminated			0.300	
							317 96.622	Top of Box 22				
		97.110						Sandstone - very fine grained, very silty, slightly convoluted bedding			0.595	
		97.735						Sandstone - fine grained to medium grained, joint at top J.C.A. = 80°			0.625	
		98.085						Sandstone - fine grained, laminated, J.C.A at base = 90°, slightly laminated			0.350	
							322 98.146					
		98.385						As above			0.300	

Form 71-1159-R02

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No SD- 7611 SHEET No 17

DATE BEGUN: DEPTH: BEARING: U.T.M

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	THICKNESS Thick	THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int	RECOVERY m	RECOVERY m-Rec	RECOVERY %
		98.615						Siltstone - highly broken, calcite traces, shearing			0.230	
		98.915						Siltstone - sandy			0.300	
		99.365						Sandstone - fine grained, few silty laminae			0.450	
		99.535						Siltstone - massive			0.170	
		99.665						Sandstone - fine grained			0.130	
							327					
							99.010					
		100.015						As above			0.350	
		100.290						Siltstone - sandy, claystone at base			0.275	
23° at base		100.450						Sandstone - fine grained, relatively clean, single hairline fracture			0.160	
								Top of Box 23				
		101.000						Sandstone - fine grained, massive occasional silty band, one calcite bedding plane fractures			0.550	
		101.150						Siltstone - laminated			0.150	
							332					
							101.19					
		101.220						As above			0.070	
15° at base		102.105						Sandstone - fine grained, several joints 80 - 85°, massive and clean			0.885	

Form 71-0150-RJ2

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7611 SHEET No 18

DATE BEGUN: DEPTH: BEARING: U.T.M

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	THICKNESS Thic	THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY In	RECOVERY m	RECOVERY m-Rec	RECOVERY %
		102.315						Siltstone - sheared (listric surfaces) highly broken, calcite traces			0.210	
		102.650						Sandstone - very fine grained, single large calcite filled fracture, silty, massive			0.335	
							337					
							102.718					
		102.690						As above			0.040	
		102.950						Siltstone - highly broken, some listric surfaces			0.260	
30° 0.53m from base		104.100						Sandstone - fine grained, laminated with			.150	
		104.290						Siltstone - massive, single hairline calcite fracture			0.190	
							343					
							104.242					
		104.390						As above			0.100	
		104.500						Siltstone - sandy, laminated			0.110	
		105.150						As above with sandy bands			0.656	
		105.750						Sandstone - very fine grained, silty			0.600	
		105.810						Siltstone - sandy, laminated			0.060	
							347					
							105.765					
30° 0.37m from top		107.350						Siltstone - laminated, sandy			.540	
							352					
							107.290					

Form 71-1150 R32

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD - 7611 SHEET No 19

DATE BEGUN: DEPTH: BEARING: U.T.M

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int	RECOVERY m	RECOVERY m Rec	RECOVERY %
		108.170						Siltstone - sandy			0.820	
		108.480						Sandstone - very fine grained			0.310	
		108.830						Siltstone - sandy, fairly massive			0.350	
								Top of Box 25				
		108.935						As above			0.105	
							357 108.84					
		110.445						As above - becoming sandy at base			1.510	
							362 110.338					
23° at base		112.070						As above - sandy in places			1.625	
							367 111.862					
		112.125						Sandstone - very fine grained, laminated			0.145	
		112.610						Siltstone - sandy, laminated, core broken			0.425	
							370 112.776					
		112.905						As above - solid			0.265	
								Top of Box 26				
		113.135						As above - single calcite fracture			0.230	
							372 113.386					
-15° -33m from top		114.690						Siltstone - sandy			1.555	
							377 114.940					

Form 71-0150-RJ2

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No SD - 7611 SHEET No 20

DATE BEGUN: DEPTH: BEARING: U.T.M.

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int	RECOVERY m.	RECOVERY m. Rec	RECOVERY %
								As above			1.395	
		116.235						Siltstone - with coaly laminae, some claystone, severely broken			0.150	
							383 / 116.434					
		116.315	0.080	.074				Silty claystone			0.080	
		116.340	0.025	.023				Coal - bony			0.025	
		116.390	0.05	.046				Coal - bright banded			0.050	
cos 23°												
		116.445	0.055	.051				Siltstone			0.055	
		116.560	0.115	.106				Coal - bright banded, broken			0.115	
		117.060	0.500	.460				CORE LOSS			0.500	
							384.5 / 117.166					
		117.120	0.060	.055				Coal - dull and bright, severely broken			0.060	
								Top of Box 27				
		117.210	0.090	.083				Claystone - listric surfaces, carbonaceous in places, highly sheared			0.090	
		117.510	0.300	.276			*	CORE LOSS			0.300	*
		117.570	0.060	.055				Coal - dull banded, pulverized			0.060	
		117.930	0.360	.331			*	CORE LOSS			0.360	*
		118.090	0.160	.147				Claystone - carbonaceous, broken			0.160	
							387 / 117.958					
		118.310	0.220	.203				As above			0.220	
		118.490	0.180	.164				Coal - dull banded, pulverized, 20% driller's mud			0.180	

Form 71-1150-R02

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No SD - 7611 SHEET No 21

DATE BEGUN: DEPTH: BEARING: U.T.M.

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	THICKNESS Thru	THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m. Rec.	RECOVERY %
		118.580	0.090	.083				Claystone - carbonaceous, occasional coaly band, highly broken			0.090	
							390 / 118.872					
		118.855	0.275	.253				Silty claystone			0.275	
		119.090	0.235	.216				Siltstone - sandy			0.235	
							391 / 119.177					
		119.090	0.115	.106				Siltstone - as above			0.115	
32° at top		119.805						Sandstone - very fine grained, with silty laminae			0.600	
		120.285						Siltstone - sandy in places			0.480	
							395 / 120.396					
		121.200						Silty claystone - massive			0.915	
							398 / 121.376					
								Top of Box 28				
		122.080						Siltstone - sandy			0.880	
		122.335						Sandstone - very fine grained, relatively massive			0.255	
							402 / 122.530					
		123.835						Siltstone - fairly massive, several calcite fractures at base			1.500	
							407 / 124.054					
		124.360						Sandstone - very fine grained, relatively massive			0.525	
		125.350						Siltstone - slightly sand			0.990	

Form 1 (15) R32

DENSON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No SD - 7611 SHEET No 22

DATE BEGUN: DEPTH: BEARING: U.T.M.

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m	RECOVERY m. Rec	RECOVERY %
							412 / 125.513	Top of Box 29				
		126.950						Siltstone - slightly laminated, very uniform			1.600	
							417 / 127.102					
		128.390						As above - J.C.A. 80° at bottom			1.440	
							422 / 128.626	Top of Box 30				
30 at top		129.640						As above			1.250	
		129.910						Siltstone - very sandy, prominent rusty weathering, broken			0.270	
							427 / 130.150					
		131.510						Siltstone - sandy			1.600	
							432 / 131.674					
15° .35m from base		133.135						Siltstone - sandy, relatively massive, broken for .100m at bottom			1.625	
							437 / 133.198					
		133.800						As above - single hairline calcite fracture at base J.C.A. = 85°			0.665	
								Top of Box 31				
		134.620						Siltstone - sandy, rusty weathering, several joints 80 - 85°.			0.820	
							442 / 134.722					

Form 71-1150-R02

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No. SD-7611 SHEET No 23

DATE BEGUN: DEPTH: BEARING: U.T.M

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	THICKNESS Thick	THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY In	RECOVERY m	RECOVERY m.Rds	RECOVERY %
16° 0.225 from top		136.195						Siltstone - very sandy with some very fine grained bands - core highly broken and jointed at base			1.575	
		136.336						CORE LOSS			0.141	*
							447					
							136.246					
		137.671						Siltstone - as above			1.335	
							453					
							137.770					
		138.151						Siltstone - massive, sandy. Top of Box 32			0.480	
		139.291						As above			1.140	
							457					
							139.294					
22° 0.6m from base		140.851						As above			1.560	
							462					
							140.818					
		142.471						Siltstone - relatively massive, occasional sandy band			1.620	
							467					
							142.342					
								* Core spilled - Top of Box 33				
		142.570						As above			0.099	
							472					
							143.866	(marker in wrong place				
		142.885	.315	.296				Silty claystone			0.315	
		142.975	.090	.085				Coal - dull			0.090	
13° .2 m from top		144.380	1.405	1.320				Siltstone - occasional sandy bands			1.405	

Form 71-1150-RJ2

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No. SD-7611 SHEET No 24

DATE BEGUN: DEPTH: BEARING: UTM

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION (x from geophysics 144.380)	RECOVERY In	RECOVERY m	RECOVERY m.sec	RECOVERY %
	144.380	149.690	0.310	.291				Coal - d 1.1, metallic lustre, slightly sheared			0.310	
		144.930	0.240	.226				Coal - d 1.1 banded, broken			0.240	
						2.1.1						
		145.130	0.200	.188				Coal - d 1.1, metallic lustre			0.200	
		145.215	0.085	.080				Coal - d 1.1, banded			0.085	
							477					
							145.390					
		145.240	0.025	.023				Coal - d 1.1, slightly sheared			0.025	
		145.355	0.115	.108				Siltstone			0.115	
		145.370	0.015	.014				Claystone - carbonaceous			0.015	
		145.550	0.180	.169		2.2.1		Coal - d 1.1 banded			0.180	
		145.800	0.250	.235				Claystone - carbonaceous, slightly sheared			0.250	
		145.860	0.060	.056				Claystone - pulverized			0.060	
		146.037	0.177	.166			*	CORE LOSS			0.177	*
		146.072	0.035	.033				Coal - d 1.1, metallic lustre 20% ash, slightly sheared			0.035	
		146.137	0.065	.061				Coal - d 1.1 metallic lustre, 30% ash			0.065	
						2.3.1						
		146.337	0.200	.188				Coal - d 1.1, metallic lustre, 20% ash			0.200	
		146.562	0.225	.211				Coal - bony			0.225	

Form 71-010-R12

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No. SD-7611 SHEET No. 25

DATE BEGUN: DEPTH: BEARING: UTM

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT Thick	UNIT True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int	RECOVERY m	RECOVERY m. Rec.	RECOVERY %
		146.657	.095	.089				Coal - d. 1.1, metallic lustre, 30% ash			0.095	
								Top of Box 34				
		146.807	.150	.141				Coal - d. 1.1, banded, metallic lustre, 20% ash			0.150	
		146.847	.040	.038				Coal - bony			0.040	
		146.892	.045	.042				Coal - d. 1.1, banded			0.045	
							482					
							146.914					
		146.917	.025	.023				Claystone - slightly carbonaceous			0.025	
		147.162	.245	.230				Coal, d. 1.1, banded, metallic lustre			0.245	
		147.332	.170	.160				Coal - d. 1.1, metallic lustre			0.170	
		147.602	.270	.254				Coal - d. 1.1, metallic lustre, pulverized			0.270	
		148.066	.464	.436				CORE LOSS			0.464	
		148.166	.100	.094				Coal, d. 1.1, banded, metallic lustre			0.100	
		148.416	.250	.235				Coal - d. 1.1 banded, metallic lustre, highly broken			0.250	
							487					
							148.438					
		148.491	.075	.070				Coal - bright, banded			0.075	
		148.561	.070	.066				Coal - d. 1.1 and bright			0.070	
		149.171	.610	.573				Coal - d. 1.1, banded, metallic lustre, broken in places, pulverized in bottom 5cm			0.610	
		149.840	.669	.629			*	CORE LOSS			0.669	*
							492					
							149.962 *					

Form 71-1150-R32

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No. SD-7611 SHEET No 26

DATE BEGUN: DEPTH: BEARING: UTM:

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	THICKNESS Thick	THICKNESS True	COAL SHEET	DESC LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m	RECOVERY m-Rec	RECOVERY %
		149.970	.130	.122				Siltstone - slightly laminated			0.130	
18°		151.110						Sandstone - very fine grained to fine grained			1.140	
0.27m								with silty laminae				
from												
top												
							496					
							151.181					
		151.260						Sandstone - fine grained, massive			0.150	
								Top of Box 35				
		152.680						Sandstone - fine grained massive			1.420	
							501.5					
							152.857					
22°		154.210						As above			1.530	
0.87m												
from												
top												
							506.5					
							154.381					
		155.55						Sandstone - fine grained, massive, joint at			1.340	
								top - J.C.A. = 90°				
								Top of Box 36				
		155.720						As above			0.170	
							511.5					
							155.905					

Form 71-1150-R02

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No SD-7611 SHEET No 27

DATE BEGUN: DEPTH: BEARING: UTM

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thic.	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m	RECOVERY m-Rec	RECOVERY %
		156.890						Sandstone - fine grained to medium grained, few calcite fractures			1.170	
							516					
							157.277					
		157.270						Sandstone - medium grained with few carbonaceous inclusions up to 5 cm long, also includes a few grounds			0.380	
		158.400						Sandstone - fine grained to medium grained, massive, contains a few coal inclusions near middle, some slickensides			1.130	
		158.400						As above			0.080	
							520					
							158.496					
24° 0.16 m from base		158.895						As above			0.495	
							522					
							159.106					
		159.720						Sandstone - medium grained, massive, clean			0.745	
								Top of Box 37				

Form 71-1150 R02

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No SD - 7611 SHEET No 28

DATE BEGUN: DEPTH: BEARING: UTM:

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

AT: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT Thick	UNIT True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Inch	RECOVERY m	RECOVERY m Rec	RECOVERY %
		159.960						Sandstone - fine grained			0.240	
		160.070						Sandstone - medium grained			0.110	
		160.070						Conglomerate, small pebble, high percentage matrix, poor sorting, rounding and sphericity moderate			0.105	
		160.400						Sandstone - medium grained, containing a few coaly inclusions, massive			0.225	
		160.400						Conglomerate, granular, sorting fair, rounding and sphericity moderate			0.080	
							527 / 160,630					
		160.655						Sandstone, cg., containing a few small pebbles, sharp contact at base			0.175	
		160.755					*	CORE LOSS			0.100	*
		161.705						Sandstone, very fine grained, slightly laminated, silty			0.950	
							532 / 162,154					
16° 0.5 m from base		163.275						Siltstone, some sandy laminations			1.570	

Form 71 (150-R)

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No. SD-7611 SHEET No 29

DATE BEGUN: DEPTH: BEARING: U.T.M.

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	THICKNESS Thick	THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY In	RECOVERY %
							537 / 163,678			
		163.960						Siltstone - laminated, sandy Top of Box 38		0.685
		164.290						Claystone - silty, laminated in places		0.330
		164.480						Claystone - slightly carbonaceous		0.190
		164.550						Coal - dull banded, highly broken, 30% ash		0.070
		164.900						Sandstone - fine grained, massive, few hairline calcite fractures		0.350
							541 / 164,897			
22° 0.675 from bottom		166.300						Siltstone - laminated		1.400
							546 / 166,421			
		166.320	.02 cos 20°	.013				Claystone - carbonaceous		0.020
		166.340	.02	.019				Coal - dull and bright		0.020
		166.375	.035	.033				Claystone - carbonaceous		0.035
	166.375	166.450	.075	.070				Coal - dull, metallic lustre, 25% ash		0.075
							1.1.1			

Form 71 050 802

DENISON CONSOLIDATED LIMITED — DIAMOND DRILL CORE LOG

HOLE No SD-7611 SHEET No 30

DATE BEGUN: DEPTH: BEARING: UTM

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE

LAT: HOLE ANGLE: LOGGED BY: CORE SIZE:

DEC.	UNIT From	UNIT To	UNIT Thick	THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY In	RECOVERY To	RECOVERY Rec.	%
		166.650	0.20	.190				Coal - dull, metallic lustre			0.200	
		166.780	0.13	.122				Coal - dull, banded, metallic lustre			0.130	
		166.910	0.13	.122				Coal - dull, banded			0.130	
		166.990	0.08	.075				Coal - dull and bright			0.080	
		167.367	0.377	.354			*	CORE LOSS			0.377	
							549.5 / 167.488					
		167.602	0.235	.221				Coal - dull, banded, metallic lustre			0.235	
		167.692	0.09	.084				Coal - dull, metallic lustre, 25% ash			0.090	
		167.887	0.195	.183				Coal - dull, metallic lustre, broken			0.195	
							551.5 / 168.057					
								Top of Box 39				
		168.202	0.315	.296				Coal - dull, metallic lustre, highly broken			0.315	
							553 / 168.554					
		168.242	0.04	.038				Coal - dull, metallic lustre, highly broken			0.040	
		168.397	0.155	.146				Claystone - carbonaceous			0.155	
		168.657	0.260	.244				Coal, dull, metallic lustre, broken			0.260	
							556 / 169.469					

Form 71-1150-RJ2

DIAMOND DRILLING CORE LOG

HOLE No SD-7611 SHEET No 31

DATE BEGUN: DEPTH: BEARING: UTM

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE

DAY: HOLE ANGLE: LOGGED BY: CORE SIZE:

UNIT From	UNIT To	THICKNESS True	THICKNESS True	COAL SHEET	DESC LOG	MARKER	DESCRIPTION	RECOVERY m	RECOVERY m	RECOVERY m-Rec	RECOVERY %
	168.966	0.309	290			*	CORE LOSS			0.309	*
	169.331	0.365	343				Coal - d 1.1, metallic lustre, pulverized, listric surfaces, sheared			0.365	
					1.1.1	558					
				+	1.1.2	170,078					
	169.476	0.145	136				Coal - d 1.1, banded, metallic lustre, broken			0.145	
	169.720	0.244	228			*	CORE LOSS			0.244	*
	169.780	0.06	056				Coal - d 1.1, metallic lustre, pulverized			0.060	
							* from geophysics 169.780				
	170.495						Sandstone - fine grained, massive, occasional carbonaceous inclusions			0.715	
						562					
						171,298					
	171.645						As above, broken at base			1.150	
							Top of Box 40				
	172.190						Sandstone, medium grained, massive, occasional hairline calcite fractures			0.545	
						567					
						172,822					
18°	173.780						Sandstone - medium grained, massive, a pebble near top			1.590	
0.6m from top											
						571.5					
						174.193					

Form 71-1153 R02

DENISON MINES LIMITED

DIAMOND DRILL CORE LOG

HOLE No SD-7611 SHEET No 32

DATE BEGUN: DEPTH: BEARING: U.T.M.

DATE FINISHED: PLEY COLLAR: TOTAL DEPTH: COAL CENSE:

LOCATION: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int	RECOVERY %
		175.360						Sandstone - medium grained, massive, few pebbles average 2cm in diameter		1.580
							576.5 / 175.717			
		175.480						Sandstone, as above		0.120
								Top of Box 41		
		176.055						Sandstone, as above		0.575
		176.180						As above - core highly broken and fractured, traces of calcite		0.125
		176.662					*	CORE LOSS		0.482 *
		177.037						As above, occasional calcite fracture J.C.A. = 80°		0.375
							582 / 177.394			
18° 0.185m from top		177.367						Sandstone - medium grained, bedded		0.330
		178.617						Sandstone - fine grained to medium grained, planar bedded, few hairline calcite fractures, some cross-bedding		1.250
							587 / 178.918			
		180.132						Sandstone - fine grained, many calcite fractures, planar bedded		.515

Form

DENISON MINES LIMITED — DIAMOND DRILL CORE LOG

HOLE No. SD-7611 SHEET No. 33

DATE BEGUN: DEPTH: BEARING: U.T.M.

DATE FINISHED: ELEV. COLLAR: DATE, DEPTH: COAL CENTRE:

HOLE ANGLE: LOGGED BY: CORE SIZE:

DIP	UNIT From	UNIT To	UNIT THICKNESS Feet	UNIT THICKNESS Inches	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY in. Rec.	RECOVERY %
							592	Top of Box 42			
							180,442	* CORE LOSS		0.183	*
	180.315										
	181.200							Sandstone - fine grained, few calcite fractures, massive		0.885	
								END OF HOLE			

Form

PROJECT SAXON

HOLE NO. SD 7612 BEARING 039° ANGLE 60°

COLLAR ELEVATION _____ TOTAL DEPTH 317.602m

Seam No. 4 Structure Contour Elevation _____

Coal Interval 204.100-204.769 24° Dip (Geophysical Log Pick)

Coal Thickness _____ Isopach Not mineable .061
Total rock .04

Core Data:

A. Coal Present .057 Rock Present .04

Coal Absent - Rock Absent -

Total Coal .057 Total Rock .04

Grand Total .061

B. Rock/Coal .070

C. % Core Recovery 100

Seam No. 3 Structure Contour Elevation _____

Coal Interval 237.39-238.274 13° Dip (Geophysical Log Pick)

Coal Thickness _____ Isopach .85 - not mineable
total rock -

Core Data:

A. Coal Present 1.15 Rock Present 1.35

Coal Absent - Rock Absent 0.27

Total Coal 1.15 Total Rock 1.62

Grand Total 2.77m

B. Rock/Coal 1.409

C. % Core Recovery 90.253 Samples: 4.1.1, 4.2.1, 4.3.1

Seam No. 2 Structure Contour Elevation _____

Coal Interval 263.68 - 266.28 22° Dip (Geophysical Log Pick)

Coal Thickness _____ Isopach Not mineable - 2.38
Total rock - 0.04

Core Data:

A. Coal Present 0.98 Rock Present 0.56

Coal Absent 0.46 Rock Absent 0.38

Total Coal 1.44 Total Rock 0.98

Grand Total 2.38m

B. Rock/Coal .653

C. % Core Recovery 64.71 Samples: 2.1.1.

Coal Interval 306.12-311.02 15° Dip (Geophysical Log Pick)

Coal Thickness _____ Isopach Total mineable - 4.73
Total rock .23

Core Data:

A. Coal Present 2.077 Rock Present 0.657

Coal Absent 3.227 Rock Absent 0. 0.763

Total Coal 5.307 Total Rock 1.420

Grand Total 6.727m

B. Rock/Coal .268 Sample: 1.1.1: 1.2.1, 1.3.1

C. % Core Recovery 40.64

Seam No. _____ Structure Contour Elevation _____

Coal Interval _____ (Geophysical Log Pick)

Coal Thickness _____ Isopach _____

Core Data:

A. Coal Present Rock Present

Coal Absent _____ Rock Absent _____

Total Coal Total Rock

Grand Total _____

B. Rock/Coal _____

C. % Core Recovery _____

Seam No. _____ Structure Contour Elevation _____

Coal Interval _____ (Geophysical Log Pick)

Coal Thickness _____ Isopach _____

Core Data:

A. Coal Present Rock Present

Coal Absent _____ Rock Absent _____

Total Coal Total Rock

Grand Total _____

B. Rock/Coal _____

C. % Core Recovery _____

Seam No. _____ Structure Contour Elevation _____

Coal Interval _____ (Geophysical Log Pick)

Coal Thickness _____ Isopach _____

Core Data:

A. Coal Present Rock Present

Coal Absent _____ Rock Absent _____

Total Coal Total Rock

Grand Total _____

B. Rock/Coal _____

C. % Core Recovery _____

DEAN BONNEGOY LIMITED

DIAMOND DRILL CORE LOG

All core angles measured from horizontal

HOLE No SD - 7612 SHEET No 1

DATE BEGUN: Sept. 28, 1976 DEPTH BEARING: N039° U.T.M

DATE FINISHED ELEV COLLAR TOTAL DEPTH 317.602 m COAL LICENSE

LAT. HOLE ANGLE 60° LOGGED BY U.M Duford CORE SIZE HQ

D.C.A	UNIT From	UNIT To	THICKNESS Thick	THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m	RECOVERY m.Rec	RECOVERY %
0°	6.502	6.972						Overburden - quartzites and sandstones			0.470	
							9.925	Sandstone - light grey - fine to medium grained, lithic regularly bedded, but massive in places			0.732	
											0.791	
								Sandstone - with a few quartzite pieces (overburden)			0.494	
	6.972	9.449	2.477				9.449	Sandstone - bedrock as above			0.460	
	9.449	10.291	0.842								0.842	
								Top of Box 2				
2°	10.291	10.973	0.682				10.973				0.632	
	10.973	11.708	0.735								0.735	
	11.708	12.500	0.792				12.497				0.711	
	12.500	13.231	0.731								0.731	
	13.231	14.020	0.789				14.020				0.802	
	14.020	14.532	0.512								0.512	
								Top of Box 3				
	14.532	14.642	0.110								0.110	

All core angles measured from horizontal

Form 71-1010 R.02

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7612 SHEET No 2

DATE BEGUN: DEPTH: BEARING: U.T.M

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int	RECOVERY m	RECOVERY m. Rec	RECOVERY %
								CORE LOSS			0.109	
	14.64	15.545	0.903				15.545	Claystone - dark grey - frequent light sandstone interbeds throughout broken core			0.691	
	15.545	15.739	0.194								0.194	
	15.739	16.019	0.280					Claystone - black - massive			0.280	
	16.019	16.311	0.292					Claystone - dark grey - black - frequent light grey - sandstone inter-beds throughou			0.292	
	16.31	17.161	0.850					Sandstone - light grey - lithic - fine grained - regularly bedded			0.850	
							17.069					
	17.161	17.292	0.131					As above			0.131	
5°	17.292	18.466	1.174					Sandstone - light grey - lithic - frequent dark grey claystone interbedded			1.174	
	18.466	18.559	0.093				18.592	As above			0.093	
	18.559	18.779	0.220					As above			0.220	
								Top of Box 4				
	18.779	20.149	1.370					As above			1.370	
							20.11					
	20.149	21.147	0.998					Sandstone - light grey - fine grained - lithic - regularly bedded			0.998	
	21.147	21.661	0.514					As above - with silty claystone (dark brown) interbeds			0.514	
	21.66	21.719	0.058					As above			0.058	
							21.946					

Form 71-1150-R02

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No SD - 7612 SHEET No 3

DATE BEGUN: DEPTH: BEARING: U.T.M

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	THICKNESS Thick	THICKNESS True	COAL SHEET	DESC LOG	MARKER	DESCRIPTION	RECOVERY Int	RECOVERY m	RECOVERY m.Rec	RECOVERY %
	21.715	22.901	1.182					As above - with slikensides along core axis - broken core			1.182	
								Top of Box 5				
	22.901	23.295	0.394					As above -			0.394	
							23.470					
11	23.295	24.282	0.987					As above - slikensides at 65° (J.C.A.)			0.987	
	24.282	24.664	0.382					As above -			0.382	
							24.994					
	24.664	25.667	1.003								1.003	
	25.667	26.285	0.613								0.618	
							26.518					
	26.285	27.08	0.795					As above -			0.795	
								Top of Box 6				
	27.08	27.836	0.756					As above			0.756	
							28.042					
	27.836	28.448	0.612					As above			0.612	
	28.448	28.958	0.510					As above			0.510	
	28.958	29.402	0.444					Sandstone - light grey, lithic, fine to medium grain, some siltstone laminae, calcite fracture J.C.A. 14° (with slikensides)			0.444	
							29.566					
	29.402	30.297	0.895					Claystone - dark to medium grey, slightly gritty at top			0.895	
	30.297	30.436	0.139					Siltstone - medium grey, massive			0.139	
							31.090					
	30.436	31.471	1.035					Claystone - light to medium grey, massive gritty near top			1.035	
								Top of Box 7				

Form 71-1150-R02

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD7612 SHEET No 4

DATE BEGUN: DEPTH: BEARING: U.T.M.

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE: HQ

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int	RECOVERY m	RECOVERY m. Rec	RECOVERY %
	31.471	32.079	0.608					Claystone - dark grey to black, listric surfaces throughout			0.608	
	32.079	32.614	0.535					Sandstone - light grey, very fine grained and massive at top			0.535	
							32.614					
	32.614	32.804	0.190								0.190	
	32.804	34.070	1.266								.266	
							112'					
							34.138					
	34.070	34.291	0.221					As above -			0.221	
	34.291	35.613	1.322					As above -			.322	
							117'					
							35.662					
12	35.613	35.763	0.150					Top of Box 8			0.150	
	35.763	35.957	0.194					As above			0.194	
	35.957	36.538	0.581					Siltstone - light to medium grey, sandy near top			0.581	
	36.538	37.253	0.715					Sandstone - fine grained, light grey, silty claystone, dark grey phases near base.			0.715	
							122'					
							37.186					
	37.253	37.717	0.464					As above			0.464	
	37.717	37.927	0.21					Claystone - silty, medium grey			0.210	
	37.927	38.648	0.721					Sandstone - light grey, fine grained, occasional siltstone laminae			0.721	
	38.648	38.834	0.186					As above			0.186	
							127'					
							38.710					

Form 71-1150-R02

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD7612 SHEET No 5

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY In	RECOVERY m	RECOVERY m. Rec.	RECOVERY %
	38.834	39.345	0.511					As above			0.511	
	39.345	39.603	0.258					Siltstone - medium grey, fine grained sandstone laminae			0.258	
8	39.603	40.023	0.420					Sandstone - light grey, fine grained			0.420	
								Top of Box 9				
	40.023	40.243	0.220					As above			0.220	
							132' 40.734					
27	40.243	41.405	1.162					As above - with calcite fracture fillings near top at 15°, another at 85°			1.162	
	41.405	41.799	0.394				137' 41.758	As ABOVE			0.394	
	41.799	42.365	0.566					Siltstone - medium grey, with fine grained sandstone and dark grey claystone interbeds, slickensided surface at 9°			0.566	
	42.365	42.829	0.464					Sandstone - light grey, fine grained			0.464	
	42.829	42.929	0.100					Sandstone - light grey, fine grained			0.100	
	42.929	43.326	0.397					Siltstone - medium grey with dark grey claystone phases			0.397	
							142' 43.282					
	43.326	43.441	0.115					As above			0.115	
	43.441	43.782	0.341					Claystone - dark brown, silty near base			0.341	
	43.782	44.185	0.403					Siltstone - medium grey, becoming fossiliferous claystone at base			0.403	
								Top of Box 10				

Form 71-1150-R02

DENSON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD7612 SHEET No 6

DATE BEGUN: DEPTH: BEARING: U.T.M

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int	RECOVERY m	RECOVERY m.Rec	RECOVERY %
	44.185	44.31	0.125					Siltstone - medium grey			0.125	
	44.31	44.742	0.432					Sandstone - medium grey, fine grained			0.432	
							147' 44.806					
	44.742	45.182	0.440					As above			0.440	
20	45.182	45.56	0.378					Sandstone - light grey, medium grained with medium grey fine grained sandstone phases throughout			0.378	
	45.56	46.13	0.570								0.570	
							152 46.330					
	46.13	46.869	0.739					As above -			0.739	
	46.869	47.458	0.589					As above -			0.589	
15	47.458	47.703	0.245					Sandstone - light grey, fine grained, medium siltstone laminae			0.245	
							157' 47.854					
											0.526	
								Top of Box 11				
22								As above			0.889	
	47.703	51.785	4.082				162' 49.378					
								As above			0.520	
								As above - medium grained phases at base			0.951	
							167' 50.902					
								As above			0.424	
	51.785	52.123	0.338					As above			0.772	
								CORE LOSS				
	52.123	52.426	0.303					Siltstone - medium grey with fine grained sandstone interbeds			0.303	

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD7612 SHEET No 7

DATE BEGUN: DEPTH: BEARING: U.T.M.

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m.Rec.	RECOVERY %
							172' 52.426					
	52.426	53.862	1.436					As above			0.312	
								Top of Box 12				
								As above			.124	
14	53.862	53.952	0.090					Claystone - dark brown fossiliferous with occasional bright coaly wisps			0.090	
							177 53.950					
	53.952	54.142	0.190					As above			0.190	
	54.142	55.481	1.339					Siltstone - medium grey with fossiliferous claystone phases near base			1.339	
							182' 55.474					
								As above			0.056	
	55.481	55.837	0.356					As above			0.300	
								Claystone - dark brown to black some siltstone units, coaly wisps throughout			0.157	
								Claystone - carbonaceous, dark brown to black, broken core lustric surfaces			0.280	
	55.837	57.699	1.862					Top of Box 13				
								As above			0.055	
							187 56.998					
								As above - with siltstone, medium grey phase in center			0.370	
	57.699	58.386	0.687					Sandstone - very fine grained with siltstone interbeds, medium grey			0.687	
	58.386	58.537	0.151					Claystone - dark brown fossiliferous			0.151	

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD7612 SHEET No 8

DATE BEGUN: DEPTH: BEARING: U.T.M.

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY In	RECOVERY m	RECOVERY m.Rec	RECOVERY %
	58.537	58.695	0.158					Sandstone - as above			0.158	
							192					
							58.522					
	58.695	59.761	1.066					Siltstone - medium grey, dark brown claystone interbeds, occasional coaly wisps			0.582	
								As above			0.484	
	59.761	59.887	0.126					Claystone - dark brown, slightly carbonaceous, broken core			0.126	
	59.887	60.111	0.224					Sandstone - fine grained, light to medium grey, carbonaceous claystone phase at marker block			0.224	
								As above			0.040	
							197					
							60.046					
								As above			0.090	
15								Sandstone - fine grained with dark grey silty claystone interbeds			1.49	
	60.111	61.624	1.513									
								Top of Box 14				
								As above			0.234	
							202					
							61.570					
	61.624	61.748	0.124					Siltstone - medium grey			0.124	
								Claystone - carbonaceous, black, fine coaly laminae, broken core			0.210	
	61.748	62.197	0.449								0.032	
								Claystone - dark brown, siltstone phase near base.			0.207	
								Siltstone - medium grey, occasional coaly wisps			0.460	
							207					
							63.094					

Form 4: 1.50.8.2

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD7612 SHEET No 9

DATE BEGUN: DEPTH: BEARING: U.T.M.

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int	RECOVERY m	RECOVERY m Rec	RECOVERY %
	62.197	63.614	1.417									
								AS above			0.377	
	63.614	64.164	0.550					Sandstone - light grey, fine grained			0.419	
								medium grey siltstone interbeds at base			0.131	
	64.164	64.29	0.126					Claystone - carbonaceous, black			0.126	
	64.29	64.573	0.283					Sandstone - fine grained light grey, siltstone interbeds			0.283	
	64.573	64.655	0.082					Siltstone - medium grey with light grey sandstone phases			0.082	
							212' 64.618					
12	64.655	65.456	0.801					As above Top of Box 15			0.801	
	65.456	65.907	0.451					As above - with claystone at base			0.451	
								Sandstone - fine grained light grey convoluted bedding at base, siltstone interbeds throughout			0.379	
	65.907	67.151	1.244					As above			0.567	
							217' 66.142				0.298	
12	67.151	67.752	0.601					Siltstone - medium grey			0.601	
							222' 67.660					
	67.752	68.266	0.514					As above			0.514	
	68.266	68.97	0.704					Claystone - dark brown to black, carbonaceous to broken in center			0.704	
	68.97	69.418	0.448					Siltstone - medium grey, fine grained sandstone phases toward base, occasional coaly penny bands			0.448	
							227' 69.190					

Form. 11 130 R.32

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No. SD7612 SHEET No 10

DATE BEGUN: DEPTH: BEARING: UTM

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thic	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int	RECOVERY m	RECOVERY m.Rec	RECOVERY %
	69.418	69.695	0.277					As above			277	
								Top of Box 16				
	69.695	70.15	0.455					Claystone - slightly carbonaceous at top, dark grey			455	
15	70.15	70.891	0.741					Siltstone - medium grey, dark grey claystone interbeds with a 0.12m phase of carbonaceous claystone near top			741	
							232' 70.714					
	70;891	71.261	0.370					As above			370	
	71.261	72.318	1.057					Sandstone - light grey, fine grained, becoming coarser towards base			057	
	72.318	72.518	0.200					Claystone - carbonaceous, black, numerous bright coal bands, (25%) Highly broken core			200	
							237' 72.238					
	72.518	72.576	0.058					As above			058	
								Siltstone - medium grey, dark grey, claystone interbeds, throughout, light grey sandstone phases towards base			300	
								Top of Box 17				
								As above			107	
							242' 73.762					
	72.576	74.483	1.907					As above			500	
	74.483	75.189	0.706					Sandstone - fine grained light grey, dark grey siltstone interbands			706	

Form 71-1150-R02

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD 7612 SHEET No 11

DATE BEGUN: DEPTH: BEARING: UTM:

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int	RECOVERY m	RECOVERY m-Rec	RECOVERY %
	75.189	75.289	0.10					Claystone - numerous bright coaly bands (5%) highly broken core			0.100	
	75.289	75.413	0.124					Siltstone - medium grey			0.124	
	75.413	75.624	0.211					Claystone - as above			0.211	
							247 / 75.286					
	75.624	75.944	0.320					As above			0.320	
	75.944	76.149	0.205					Claystone - dark grey with interbedded medium grey siltstone			0.205	
	76.149	76.184	0.035					Coal (50%) and Claystone - bright coal			0.035	
	76.184	76.208	0.024					Coal - bright banded			0.024	
	76.208	76.47	0.262					Claystone - dark grey, numerous bright coal penny bands			0.262	
16	76.47	76.62	0.150					Sandstone - fine grained, light grey, numerous medium grey siltstone beds			0.150	
	76.62	77.114	0.494					Claystone - silty, dark brown, occasional coal penny bands			0.244	
							252 / 76.810					
								Claystone - dark grey, numerous bright coal bands at base			0.250	
	77.114	77.134	0.02					Coal - bright			0.020	
	77.134	77.734	0.60					Claystone - dark grey			0.600	
								Siltstone - with claystone interbeds			0.169	
								Top of Box 18				
10								As above			0.578	

Form

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: sd7612 SHEET No 12

DATE BEGUN: DEPTH: BEARING: U.T.M.

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int	RECOVERY m	RECOVERY m.Rec	RECOVERY %
	77.734	79.292	1.558					As above			0.811	
							257' 78.334					
								Sandstone - fine grained, light grey, siltstone laminae throughout			0.721	
							262' 79.858					
	79.292	80.379	1.081					As above			0.360	
								Siltstone - medium grey, dark grey claystone laminae			0.331	
	80.379	80.939	0.566								0.235	
	80.939	81.297	0.358					Sandstone - fine grained, light grey, medium grey siltstone laminae			0.358	
	81.297	81.532	0.235					Siltstone - medium grey, interbedded, light grey sandstone and dark grey claystone			0.235	
							267' 81.382					
18								Sandstone - fine grained light grey, massive			0.505	
								Top of Box 19				
	81.532	82.627	1.095					As above - becoming medium grained at base, fracture at 78°.			0.590	
	82.627	82.751	0.124					Claystone - silty, dark brown			0.124	
30	82.751	82.979	0.228					Sandstone - light grey, medium grained			0.228	

Form

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD7612 SHEET No 13

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m	RECOVERY m. Rec	RECOVERY %
							272' 32.906	Siltstone - light to medium grey, light grey fine grained sandstone phases at top and in middle of section, 2cm claystone at top			0.455	
							277' 34.430				.165	
	32.979	35.036	2.057					As above			0.267	
											.170	
	35.036	36.111	1.075					ty claystone - dark grey becoming a siltstone at base, fossiliferous			1.075	
							282' 35.954					
	36.111	36.251	0.14					Sandstone - light grey, fine grained massive			0.140	
								Top of Box 20				
	36.251	36.639	0.388					Siltstone - medium grey, reworked in places			0.388	
26 at bottom	36.639	37.619	0.980					Sandstone - medium grained, light grey, siltstone phases at top			0.980	
	37.619	37.679	0.060					Claystone - dark grey			0.060	
								Sandstone - as above			0.085	
							287' 37.478					
	37.679	39.091	1.412					As above			.327	
							292' 39.002					
	39.091	39.241	0.150					Claystone - dark grey to black, fossiliferous with a few coaly bands, broken core			0.150	

Form

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No. SD76112 SHEET No 14

DATE BEGUN: DEPTH: BEARING: U.T.M.

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	THICKNESS Thick	THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	m	m Rec.	%
	89.241	90.291	1.05					Siltstone - medium grey, claystone and fine grained, sandstone interbeds			.050	
								Claystone - as above			0.167	
								Top of Box 21				
	90.291	90.587	0.296					Claystone - as above			0.129	
							297' 90.526					
	90.587	91.377	0.790					As above			0.790	
	91.377	91.407	0.03					Claystone - carbonaceous, numerous bright coaly bands (50%)			0.030	
	91.407	91.447	0.07					Coal - bright 30% ash			0.070	
								Claystone - carbonaceous, numerous bright coaly bands (15%) highly broken core			0.165	
								Claystone - dark grey			0.205	
	91.447	91.832	0.385					Claystone - carbonaceous, numerous coaly bands			0.015	
	91.832	91.852	0.02	0.018				Coal - bright banded			0.020	
	91.852	91.877	0.025	0.023				Claystone - with numerous coaly bands (15%)			0.025	
	91.877	91.906	0.029	0.026				Coal - bright banded			0.029	
							302' 92.050					
cos 24°	91.906	91.958	0.052	0.043				Claystone - carbonaceous			0.052	
	91.958	91.979	0.021	0.019				Coal - bright			0.021	
	91.979	92.224	0.245	0.224				Carbonaceous claystone - numerous coaly bands			0.245	
	92.224	92.273	0.049	0.045				Coal - bright banded			0.049	

Form 4-159-3-2

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No. SD7612 SHEET No 15

DATE BEGUN: DEPTH: BEARING: U.T.M.

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	THICKNESS Thick	THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int	RECOVERY m	RECOVERY m.Rec	RECOVERY %
								Claystone - carbonaceous numerous coaly bands, highly broken and friable			0.430	
								Claystone - black, dark grey, friable			0.850	
							307' / 93.584					
								Claystone - fossiliferous, as above			0.422	
								Top of Box 22				
	92.273	94.549	2.276					As above			0.574	
								Silty claystone - dark grey, coaly inclusions, fossiliferous			0.437	
							312' / 95.098					
								As above - with fine grained sandstone phase in middle			0.375	
23								As above			0.280	
							317' / 96.622					
								As above			0.135	
							322' / 98.146	As above			0.370	
								Top of Box 23				
	94.549	98.191	3.642					As above			0.045	
	98.191	98.251	0.06					Claystone - friable			0.060	
	98.251	98.261	0.01					Silty claystone - as above			0.010	
22	98.261	98.961	0.70					Sandstone - very fine grained, calcite filled fracture at 70°.			0.700	

DENISON MINES (COAL) LIMITED — DIAMOND DRILL CORE LOG

HOLE No SD7612 SHEET No 16

DATE BEGUN: DEPTH: BEARING: U.T.M.

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS Vue	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m. Rec.	RECOVERY %
	98.961	99.271	0.31					Siltstone - medium grey			0.310	
								Sandstone - light grey, fine grained			0.011	
								"			0.250	
							327' 99.670					
								As above - medium grained in center			1.150	
								Sandstone - as above				
							332' 101.194					
	99.271	100.81	1.539					Sandstone - as above			0.128	
	100.81	101.268	0.458					Siltstone - medium grey			0.458	
								Sandstone - light grey, fine grained Top of Box 24			0.529	
	101.268	101.903	0.635					As above			0.106	
	101.903	102.223	0.320					Siltstone - medium grey			0.320	
	102.223	102.718	0.495				337' 102.718	CORE LOSS				
	102.718	103.733	1.015					Sandstone - very fine grained, medium grey with frequent siltstone interbeds, dark brown claystone 5 cm. thick 76cm. from top			1.015	
	103.733	104.079	0.346					Siltstone - medium grey, fine grained, sandstone interbeds			0.346	
14								Sandstone - light grey alternating phases of fine grained and medium grained sandstone			0.078	
							342' 104.242					
								As above			0.950	

Form 41-1150-R32

DENISON COAL LIMITED

DIAMOND DRILL CORE LOG

HOLE No SD7612 SHEET No 17

DATE BEGUN: DEPTH: BEARING: U.T.M.

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	THICKNESS Thic'	THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	m	m.2oc	%
								As above			0.566	
							347' 105.766					
								As above			0.788	
								Top of Box 25				
14 at top								As above			0.478	
								Sandstone - light grey medium grained with occasional coaly stringer near 0.352			0.330	
							352' 107.290					
								As above - calcite filled fracture at 75°			0.644	
								As Above			0.314	
								Sandstone - medium grained light grey with dark grey claystone fragments (1-2cm)			0.195	
								Sandstone - medium grained, light grey, planar bedded			0.335	
							357' 108.814					
								As above			0.451	
								As above - calcite fractures at 65° and 70°. Angle between joint pair=135°			1.060	
							362' 110.338					
								As above - with coaly stringers			0.390	
								Top of Box 26				
								SANDSTONE, COARSE GRAINED, PEBBLE LAYER AT BASE			0.180	

Form 71-1150-R.02

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD7612 SHEET No 18

DATE BEGUN: DEPTH: BEARING: U.T.M

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC LOG	MARKER	DESCRIPTION	RECOVERY Int	RECOVERY m	RECOVERY m. Rec	RECOVERY %
								Sandstone - fine grained, coaly wisps			0.175	
	104.079	111.143	7.064					Sandstone - coarse grained, pebbles and siltstone fragments in middle			0.130	
15°								Silty claystone, dark grey			0.698	
	111.143	111.996	0.853				367' 111.862					
											0.155	
	111.996	112.706	0.710					Sandstone - fine grained, light-medium grey			0.710	
	112.706	112.796	0.090					Silty Claystone			0.090	
	112.796	113.018	0.222					Claystone, fossiliferous			0.222	
	113.018	113.178	0.160					Silty claystone			0.160	
	113.178	113.418	0.240					Sandstone - fine grained, medium grey, minor cross-bedding.			0.240	
	113.418	113.932	0.514				372' 113.386				0.514	
	113.932	114.589	0.657					Siltstone - dark grey, occasional coaly wisps			0.657	
19°	114.589	114.714	0.125					Sandstone - medium grained, light grey, coaly penny bands.			0.125	
	114.714	114.804	0.090					Siltstone - medium grey			0.090	
								Top of Box 27				
	114.804	114.949	0.145					Silty claystone - dark grey with pyrite layer			0.145	
							377' 114.910					
	114.949	114.999	0.050								0.050	

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No. SD7612 SHEET No 19

DATE BEGUN: DEPTH: BEARING: UTM

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	THICKNESS Thic	THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int	RECOVERY m	RECOVERY m-Rec	RECOVERY %
	114.999	115.169	0.170					Sandstone - fine grained, coarser towards base, slikensides surface J.C.A. 15°			0.170	
	115.169	115.298	0.129					Siltstone			0.129	
	115.298	115.448	0.150					Silty claystone			0.150	
	115.448	115.567	0.119					Claystone			0.119	
18°								Siltstone - medium grey, regular bedding occasional coal stringers, bright			0.580	
											0.209	
							382' 116.434					
											1.267	
											.282	
							387' 117.958					
								As above with highly convoluted beds Top of Box 28			1.104	
											0.124	
							392' 119.482					
	115.567	119.213	3.646								0.080	
	119.213	119.253	0.04					Claystone - fossiliferous, coal penny bands			0.040	
	119.253	119.263	0.01					Coal - dull bright			0.010	
	119.263	119.362	0.099					Claystone - carbonaceous, lystric surfaces, coal panny bands, broken core			0.099	
								CORE LOSS				
	119.362	119.7	0.38					Siltstone - medium grey			0.126	

Form 41-1150-R02

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No. SD7612 SHEET No 20

DATE BEGUN: DEPTH: BEARING: U.T.M.

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int	RECOVERY m	RECOVERY m. Rec	RECOVERY %
	119.743	119.863	0.125									
	119.868	120.701	0.833					Sandstone - very fine grained, siltstone interbeds			0.833	
	120.701	120.751	0.050								0.050	
	120.751	120.81	0.059					Silty claystone			0.059	
	120.81	121.006	0.196					Claystone - carbonaceous, some clay, bright coal bands, broken core			0.196	
	121.006	121.416	0.410					Silty claystone - dark grey, massive			0.410	
							397' 121.006					
25	121.416	122.109	0.691					Sandstone - light grey, medium grained several claystone units			0.691	
											0.330	
							402' 122.530					
								Top of Box 29			0.782	
	122.107	123.929	1.822								0.710	
	123.929	123.964	0.035					Carbonaceous claystone - coaly bands, friable broken core			0.035	
							407' 124.054					
	123.964	124.131	0.167								0.167	
								Siltstone - medium grey, becoming very fine grained sandstone at base			0.454	
	124.131	124.644	0.513								0.059	
	124.644	125.403	0.829					Sandstone - fine grained, light grey			0.829	

Form 71-0150-R02

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No. SD 7612 SHEET No 21

DATE BEGUN: DEPTH: BEARING: U.T.M.

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int	RECOVERY m	RECOVERY m.Rec	RECOVERY %
								contd. becoming coarser towards base $CaCO_3$ filled fracture, J.C.A. = 30°				
							412' 125.578					
								Sandstone - medium grained, light grey some cross-bedding, planar bedded, calcite filled slikensides, oriented at 10°			0.472	
											1.115	
	125.403	127.199	1.796									
							417' 127.102	As above with carbonaceous claystone inclusions			0.209	
								Top of Box 30				
	127.199	127.399	0.200					Claystone - dark grey, becoming silty towards top			0.200	
	127.399	128.007	0.608					Siltstone - medium grey, claystone interbed, convoluted throughout			0.608	
	128.007	128.409	0.402					Sandstone - fine grained, massive			0.402	
							422' 128.626					
	128.409	128.567	0.158								0.158	
	128.567	129.387	0.820					Siltstone - medium grey, sandstone phases in middle and bottom			0.820	
14	129.387	130.027	0.640					Sandstone - very fine grained, becoming medium grained at base			0.640	
	130.027	130.096	0.069					Silty claystone - broken core			0.069	
	130.096	130.333	0.237				427' 130.150				0.237	

Form 21-2159-R32

D[illegible] COAL LIMITED

DIAMOND DRILL CORE LOG

HOLE No: SD7612 SHEET No 22

DATE BEGUN: DEPTH: BEARING: U.T.M

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int	RECOVERY m	RECOVERY m.Rec	RECOVERY %
	130.333	130.553	0.220					Sandstone - medium grained, convoluted basal contact			0.220	
	130.553	130.598	0.045					Silty claystone - dark grey			0.045	
	130.598	130.693	0.095					Claystone - dark grey			.095	
	130.693	130.968	0.275					Siltstone - medium to dark grey with occasional blebs, bands of brown claystone			0.275	
	130.968	131.674	0.706					CORE LOSS Top of Box 31				
							432' 131.674					
	131.674	132.164	0.490								0.490	
	132.164	132.434	0.270					Claystone - dark grey to black			0.270	
	132.434	133.031	0.597					Silty claystone - dark grey, massive				
	133.031	133.041	0.010								0.010	
	133.041	133.553	0.512					Siltstone - medium grey, planar bedded at base			0.102	
							437' 133.198					
											0.410	
	133.553	134.003	0.450					Sandstone - very fine grain, siltstone laminae			0.450	
	134.003	134.369	0.366					Siltstone - as above with sandstone laminae			0.366	
15°	134.369	134.580	0.211								0.211	

Form [illegible] RJ2

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD7612 SHEET No 23

DATE BEGUN: DEPTH: BEARING: U.T.M

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	THICKNESS Thic	THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int	m	m-Rec	%
							442' 134.722					
								Sandstone - light grey, planar beds, massive in middle, calcite fracture with silkensides J.C.A. - 11°			1.230	
								Top of Box 32				
											0.325	
							447' 136.246					
134.58	136.31		1.73								0.175	
								CORE LOSS				
136.31	136.774		0.464					Siltstone, medium grey with claystone interbeds, blebs of brown claystone at base			0.235	
136.774	137.009		0.235									
137.009	137.099		0.09					Claystone, carbonaceous, black, thin, coal bands, ~10%			0.090	
137.099	137.11		0.011					Silty claystone			0.011	
137.11	137.14		0.03					Coal, d. l. banded			0.030	
137.14	137.495		0.355					Claystone, carbonaceous with numerous bright bands, broken core			0.355	
137.495	137.695		0.200					Silty claystone, dark grey, massive			0.200	

Form

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7612 SHEET No 24

DATE BEGUN: DEPTH: BEARING: U.T.M.

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thic	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int	RECOVERY m	RECOVERY m.Rec	RECOVERY %
	137.695	137.770	0.075					Siltstone, medium grey, convoluted bedding, fine grain sandstone bands			0.075	
							452' 137.770					
	137.770	138.895	1.125								1.125	
	138.895	139.075	0.18					Silty claystone, becoming claystone at base			0.180	
10°								Siltstone, as above			0.215	
							457' 139.294					
	139.075	140.065	0.99					As above with claystone at base			0.775	
21°								Sandstone, fine grained, siltstone laminae			0.270	
								Top of Box 33				
											0.535	
							462' 140.818					
	140.065	141.76	1.695					As above with silty claystone phase 0.25 m. from top			0.890	
	141.76	141.95	0.190					Silty claystone			0.190	
22°	141.95	142.34	0.390					Sandstone - as above			0.390	
							467' 142.342					

Form SD-R32

D ENNISON COAL LIMITED

DIAMOND DRILL CORE LOG

HOLE No: SD-7612 SHEET No 25

DATE BEGUN: DEPTH: BEARING: U.T.M:

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT Thick	UNIT True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	m.	m. Rec.	%
	142.34	143.115	0.775					Silty claystone, dark grey fossiliferous			0.775	
	143.115	143.525	0.410					Siltstone, sandy at base, convoluted beds			0.410	
							472' 143.866					
	143.525	144.135	0.610					Sandstone, light grey, fine grained, siltstone interbeds			0.610	
	144.135	144.36	0.225					Silty claystone, becoming claystone at base, with bright coal bands			0.225	
								Top of Box 34				
								Siltstone, medium grey			0.405	
							477' 145.390					
								Siltstone, medium grey, massive, numerous coal stringers (some broken core)			0.650	
32°								Siltstone, sandy			0.250	
								Siltstone, medium grey, massive			0.395	
								As above, convoluted bedding			0.270	
							482' 146.914					
	144.36	146.975	2.615								0.645	

Form 150-RD2

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7612 SHEET No 26

DATE BEGUN: DEPTH: BEARING: U.T.M:

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m. Rec.	RECOVERY %
	146.975	147.397	0.422					Silty claystone, fossiliferous, some broken core, numerous bright coal bands			0.422	
								CORE LOSS				
	147.397	148.087	0.690					Siltstone as above			0.690	
							487' 148.438					
								Sandstone, very fine grained, medium grey, siltstone interbeds			0.523	
								Top of Box 35			0.609	
							492' 149.962					
18°											0.820	
								Broken core at base			0.730	
							497' 151.486					
											0.664	
	148.087	151.918	3.831								0.485	
								Claystone, lystric surfaces, broken core at top, some bright coaly bands				
	151.918	152.371	0.453								0.453	
							502' 153.010					
	152.371	152.601	0.230								0.230	

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7612 SHEET No 27

DATE BEGUN: DEPTH: BEARING: U.T.M:

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY In	RECOVERY m	RECOVERY m.Rec	RECOVERY %
	152.601	152.796	0.195					Siltstone, grey, with claystone interbeds, broken core at base			0.195	
								Top of Box 36				
	152.796	152.904	0.108					Sandstone, fine grain, siltstone			0.108	
							504' 153.614					
	152.904	153.098	0.194					Siltstone, as above, broken core			0.194	
17°								Sandstone - Fine grain, light grey with siltstone interbeds			0.875	
	153.098	154.07	0.972								0.097	
							508' 154.838					
								Siltstone - medium grey with silty claystone interbeds calcite fractured fill - J.C.A. - 12°			1.050	
	154.07	155.98	1.91				512' 156.058				0.860	
cos 20°												
	155.98	156.20	0.220	0.207				Claystone - with silty phases minor coaly inclusions, fossiliferous, broken core			0.220	
	156.20	156.32	0.12	0.113				Coal - stoney with bright bands 30% bright banded			0.045 0.075	

Form 71-1150-3

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-76 12 SHEET No 28

DATE BEGUN: DEPTH: BEARING: U.T.M.

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int	RECOVERY m	RECOVERY m-Rec	RECOVERY %
								Coal - dull and stoney, broken core			0.075	
	156.32	156.47	0.15	0.141				as above with bright bands			0.075	
							517' 57.582					
								Top of box 37				
	156.47	156.525	0.05					Claystone - medium grey to black			0.055	
	156.525	157.081	0.556					Silty claystone - medium grey massive			0.556	
	157.081	158.581	1.5					Siltstone - medium grey sandstone phases at top			0.820	
							522' 59.106				0.680	
22°								Sandstone - very fine grain, medium grey irregular bedding calcite fracture - J.C.A. - 10°			0.747	
	158.581	160.522	1.941				527' 60.630				1.94	
	160.522	160.828	0.306					Siltstone - medium grey deformed bedding			0.306	
								Top of Box 38				
	160.828	160.9	0.082								0.082	
							532' 62.154					
	160.91	161.40	0.490					Claystone - medium grey, very silty at base as above, black			0.490	
											0.010	

Form 71-159-RJ2

DENSON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD 7612 SHEET No 29

DATE BEGUN: DEPTH: BEARING: UTM

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int	RECOVERY m	RECOVERY m-Rec	RECOVERY %
	161.40	161.624	0.224	0.216				Coal - bright banded			0.204	
								d. ll. bright			0.020	
	161.624	161.649	0.025	0.024				Claystone - as above			0.025	
	161.649	161.759	0.110	0.106				Coal - d. ll. banded			0.110	
	161.759	161.789	0.03	0.029				Coal - stoney			0.030	
	161.789	161.809	0.020	0.019				Coal - d. ll. bright			0.020	
	161.809	162.011	0.202	0.195				COAL LOSS				
	162.011	162.126	0.115					Claystone - black			0.115	
cos 15°								Siltstone - medium grey with coaly stringers and claystone interbeds			0.555	
							537' 63.678				0.804	
	162.126	63.48	1.359									
	163.485	63.76	0.280					Claystone - dark grey, coaly inclusions broken core			0.280	
	163.765	63.97	0.205					Siltstone - with claystone interbeds			0.205	

Form

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD 7612 SHEET No 30

DATE BEGUN: DEPTH: BEARING: U.T.M.

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	THICKNESS Thick	THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m. Rec.	RECOVERY %
9°	163.97	164.37	0.40				542	Sandstone - very fine grain, light grey			0.205	
							65.202				0.195	
	164.37	164.645	0.275					Siltstone - medium grey with coaly stringers claystone interbeds			0.275	
	164.645	164.68	0.035					Claystone - with numerous bright coal bands, broken core			0.035	
	164.68	65.02	0.345					Siltstone - as above			0.345	
								Top of box 39				
	165.025	65.64	0.615					Claystone - black friable			0.530	
							547				0.085	
							66.726					
Cos 9°	165.64	165.84	0.20					Siltstone - medium grey some claystone inclusion			0.200	
	165.84	166.892	1.052					Sandstone - light grey planer bedding			0.572	
											0.480	
								Siltstone - medium grey with coaly stringers			0.113	
	166.892	167.38	0.488				552					
							68.250				0.375	
	167.38	167.70	0.032					Carbonaceous claystone - numerous bright coal bands 5%			0.032	
	167.70	167.775	0.075	0.074				Coal - boney with bright bands			0.075	

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD 7612 SHEET No 31

DATE BEGUN: DEPTH: BEARING: U.T.M.

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	THICKNESS Thick	THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	m.	m. Rec.	%
	167.775	167.895	0.120	0.119			*	Coal - d. ll. bright, broken core			0.120	
	167.875	167.955	0.06	0.059				Coal - bright banded			0.060	
								Coal - d. ll. bright, bright banded			0.020	
								d. ll. banded, bright d. ll. bright			0.025	
											0.018	
											0.040	
											0.018	
	167.955	168.076	0.121	0.120								
cos 9°	168.076	168.366	0.29	0.286			*	Coal - d. ll. and bright, highly broken			0.290	
	168.366	168.556	0.19	0.188			*	Coal - d. ll. banded, broken as above			0.190	
	168.556	168.616	0.06	0.059				Coal - boney with bright bands			0.060	
								Carbonaceous claystone - coaly stringers			0.028	
	168.616	168.826	0.21					Claystone - silty at top			0.025	
							557' 169.774				0.157	
	168.826	169.274	0.948					CORE LOSS				
	169.774	169.894	0.120					Siltstone			0.120	
								Sandstone - fine grain, light grey irregular bedding			0.323	
								Top of Box 40				
9°											0.976	

Form 71-150-802

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD 7612 SHEET No 32

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY In	RECOVERY m	RECOVERY m-Rec	RECOVERY %
							562' 71.300					
	169.894	172.271	2.377					As above with siltstone interbeds			0.433	
											0.645	
								Siltstone - medium grey sandstone phase			0.442	
							562' 72.822					
	172.271	173.314	1.043								0.338	
											0.263	
	173.314	173.386	0.072					Silty claystone - dark grey			0.072	
	173.386	173.691	0.305					Siltstone - medium grey with sandy laminae			0.305	
	173.691	173.731	0.04					Coal - d. l.l. with bright bands			0.040	
20°	173.731	173.755	0.024	0.023				Coal - bright banded			0.024	
	173.755	173.775	0.02	0.019				Coal - d. l.l.			0.020	
cos	173.775	173.845	0.07	0.066				Coal - d. l.l. banded			0.070	
	173.845	173.895	0.05	0.047				Carbonaceous claystone with bright coal band			0.050	
	173.895	173.938	0.043	0.04				Coal - d. l.l. bright			0.043	
	173.938	173.963	0.025	0.023				D. l.l. d. l.l. banded			0.025	
											0.188	
								Carbonaceous claystone - Sheared			0.025	
								Top of box 41			0.120	
							572' 174.346				0.110	
											0.020	
											0.130	

Form 71-1150-R02

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD 7612 SHEET No 33

DATE BEGUN: DEPTH: BEARING: U.T.M

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A	UNIT From	UNIT To	THICKNESS Thick	THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int	m	m Rec	%
											0.040	
											0.035	
											0.050	
	173.963	174.761	0.798					Carbonaceous claystone - numerous coaly bands 5%			0.080	
	174.761	175.503	0.742								0.742	
	175.503	175.618	0.115					Siltstone - with sandstone interbeds			0.115	
30°								Sandstone - light grey fine grain minor medium grey phases siltstone interbed; 2 cm claystone clasts near marker black			0.135	
							577' 175.870					
	175.618	176.763	1.145								1.010	
	176.763	177.1	0.357					Siltstone - as above			0.357	
								Sandstone - as above, some coaly stringers irregular bedding			0.228	
							582' 177.394	Top of Box 42			0.840	
								Sandstone - light grey fine grain slicken sides above and below marker J.C.A. 20°			0.674	
	177.12	179.166	2.046				587' 178.918	relitively massive bedding			0.304	
14°	179.166	179.476	0.310					Siltstone - sandy phases in above unit			0.310	

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD 7612 SHEET No 34

DATE BEGUN: DEPTH: BEARING: U.T.M.

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	THICKNESS Thick	THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int	RECOVERY m	RECOVERY m.Rec	RECOVERY %
	179.476	180.356	0.880					Sandstone - medium grey fine grain at top			0.880	
	180.356	180.434	0.078					Siltstone			0.078	
							592					
							80.442					
								Sandstone - as above calcite filled fractures U.C.A. 14° 79°			0.440	
	180.434	181.804	1.37								0.930	
	181.804	181.894	0.090					Siltstone - dark grey, occasional bright coal band			0.090	
							597					
							81.966					
								Sandstone - as above Top of Box 43			0.310	
	181.894	183.547	1.653				602	Sandstone - Fine grain			0.914	
							83.490				0.287	
											0.142	
	183.547	184.337	0.790					Siltstone - medium grey with claystone interbeds increasing towards base			0.790	
	184.337	184.442	0.105	0.104				Coal - bright d. l.l. bright coal			0.030	
											0.075	
	184.442	184.732	0.290	0.286				Claystone - Fossiliferous, numerous bright coal bands 5% broken core			0.290	
	184.732	184.804	0.072	0.07				Coal - d. l.l. bright bright d. l.l. bright			0.022	
							607				0.020	
							85.01				0.30	

Form 71-1130-802

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD7612 SHEET No 35

DATE BEGUN: DEPTH: BEARING: U.T.M.

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int	RECOVERY m	RECOVERY m Rec	RECOVERY %
	184.804	184.904	0.10	0.098				Coal - Friable d. ll. banded			0.100	
	184.904	185.059	0.155	0.152				Claystone - dark grey			0.155	
	185.059	185.099	0.04	0.039				Carbonaceous claystone			0.040	
								Coal - d. ll.			0.035	
	185.099	185.667	0.568	0.56				Coal - sheared			0.042	
								Bright			0.038	
								Coal and claystone - broken core			0.270	
								Coal - d. ll. banded			0.090	
								bright			0.021	
								d. ll. banded			0.072	
	185.667	185.847	0.18					Carbonaceous claystone - with coal bands			0.065	
								5% medium grey, cacite fractured			0.115	
5°												
								Sandstone - Fine grain			0.090	
							612' 186.538	Top of Box 44				
								As above with $CaCO_3$ fractured fills				
								U.C.A. - 2° - 14°			1.454	
								Siltstone interbeds			0.142	
							617' 188.062	Sandstone - medium grained light grey with			0.125	
								occasional coaly & claystone inclusions			0.787	
	185.847	188.592	2.745				622' 189.586				0.147	

Form 71-1152-R12

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD 7612 SHEET No 36

DATE BEGUN: DEPTH: BEARING: U.T.M.

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	THICKNESS Thic	THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int	RECOVERY m	RECOVERY m-Rec	RECOVERY %
24°	188.592	189.206	0.614					Siltstone - medium grey $CaCO_3$ fractured fill at 15° at base coaly inclusions and bands			0.614	
								Sandstone - very fine grained, medium grey, irregular bedding, siltstone interbeds $CaCO_3$ fractured fill at base			0.330	
								Top of Box 45				
								As above			0.490	
	189.206	190.475	1.269				627' 91.110	Sandstone - fine grained, light grey, $CaCO_3$ fractured fill J.C.A. - 75°			0.449	
	190.475	191.245	0.77					Silty claystone - dk-grey, with claystone interbeds fossiliferous			0.495	
	191.245	191.329	0.084					Claystone - black			0.275 0.084	
								Siltstone - medium grey with sandstone & interbeds, 9 cm sandstone phase near marker			0.098	
							632' 92.634				0.966 0.601	
							637' 99.158					
	191.329	193.836	2.507					Top of Box 46			0.842	
	193.836	194.42	0.585					Silty claystone - dark grey with claystone interbeds and coaly inclusions			0.585	

Form 71-1150-R02

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7612 SHEET No. 37

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY In	RECOVERY m	RECOVERY m. Rec	RECOVERY %
	194.421	194.535	0.114				642'	Siltstone - medium grey			0.028	
							195.682				0.086	
	194.535	195.75	1.218					Silty claystone - as above			1.218	
	195.753	195.973	0.220					Carbonaceous claystone - numerous thin bright coal bands - 10%, broken core			0.220	
	195.973	196.068	0.095					Coal - stoney - bright coal bands 30%			0.095	
								Claystone - dark grey, fossiliferous, bright coal bands <5%			0.330 0.860	
	196.068	197.793	1.725				652'				0.535	
							198.930					
8°	197.793	199.467	1.674					Siltstone - medium grey, very fine grained sandstone, interbeds throughout			0.860	
12°								Top of Box 47 As above - with sandstone phase near top			0.814	
							657'					
							200.254				0.500	
	199.467	200.323	0.856					Siltstone - medium grey with claystone interbeds, some deformed bedding			0.356	
	200.323	200.563	0.240					Carbonaceous claystone - bright coal bands 5%, broken core			0.240	
	200.563	200.87	0.308				662'	Siltstone - medium grey			0.260	
							201.778				0.048	
								Claystone - dark grey, fossiliferous			0.305	

Form 71-1159-B32

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7612 SHEET No 38

DATE BEGUN: DEPTH: BEARING: U.T.M.

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	THICKNESS Thick	THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int	RECOVERY m	RECOVERY m-Rec	RECOVERY %
	200.871	201.26	0.389								0.084	
	201.26	201.425	0.165					Siltstone - silty claystone phase at base			0.165	
9°	201.425	201.837	0.412					Sandstone - med. grey, very fine grain, with siltstone laminae			0.412	
							667'	Siltstone - medium grey with claystone				
							203.302	interbeds			0.363	
	201.837	203.05	1.216					Siltstone - with sandstone phases (light grey)			0.293	
								Top of Box 48				
27°											0.560	
	203.053	203.953	0.90					Sandstone - light grey, fine grained, medium grey, siltstone interbeds regular bedding			0.875	
											0.025	
	203.953	204.10	0.147					Siltstone - medium-grey, sandstone & claystone laminae, coaly bands at base			0.147	
								Coal - d. l. l. banded			0.080	
								d. l. l. highly broken core			0.055	
								d. l. l. banded			0.110	
								d. l. - bright			0.027	
	204.10	204.42	0.32	0.292				stoney with bright bands 25%			0.048	
cos 24°	204.42	204.46	0.041	0.037				Carbonaceous claystone - fossiliferous			0.041	
								Coal - stoney - 5% bright bands			0.024	
	204.461	204.76	0.308	0.281				D. l. l.			0.132	
								D. l. l. banded, highly broken core			0.152	

Form 71-1150-R02

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7612 SHEET No 39

DATE BEGUN: DEPTH: BEARING: U.T.M.

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thic	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m. Rec.	RECOVERY %
								Sandstone - very fine grained, medium grey siltstone phases near top			0.411	
21°	204.769	206.355	1.586				677' 206.350	Sandstone - fine, medium grained becoming coarser throughout regular bedding			0.290	
								Siltstone - medium grey with light grey sandstone phases throughout			0.885	
											0.251	
								Top of Box 49				
	206.355	207.22	0.867				682' 207.874				0.361	
											0.255	
19°	207.222	207.61	0.39					Sandstone - fine grained			0.390	
	207.612	207.91	0.305					Siltstone - sandy, medium grey with coal band .005 m in centre			0.305	
								Sandstone - very fine grained with siltstone laminae			0.158	
							687' 209.398				0.481	
	207.917	208.71	0.794								0.155	
	208.711	209.42	0.715					Siltstone - medium grey, sandy			0.715	
	209.426	211.32	1.896				692' 210.922	Sandstone - light - medium grey, very fine grained			0.631	
											0.816	
								Top Box 50				
15°								Sandstone - as above			0.449	
	211.322	211.378	0.056					Claystone - fossiliferous, black			0.056	

Form 21 050 803

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No. SD-7612 SHEET No 40

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	THICKNESS Thick	THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	m	m Rec.	%
							697' 212.446					
								Coal - stoney - very thin, bright coal bands 5%			0.069	
								D. 1.1. banded - broken core			0.070	
	211.378	211.752	0.374	0.361				D. 1.1. - friable			0.125	
								Bright banded			0.080	
								D. 1.1. - Bright, Friable			0.030	
	211.752	211.772	0.02	0.019				Carbonaceous claystone			0.020	
	211.772	211.842	0.07	0.068				Coal - d. 1.1 banded, friable			0.070	
								Siltstone, medium grey, massive, some broken core			0.170	
											0.075	
	211.842	212.875	1.033	0.998				Siltstone - medium grey with fine grained sandstone laminae			0.788	
							704' 213.970					
	212.275	213.385	0.51	0.493				Carbonaceous claystone - dark grey, numerous bright coal bands, broken core			0.085	
											0.425	
	213.385	213.43	0.045	0.043				Coal - d. 1.1 banded			0.045	
	213.432	213.458	0.028					Carbonaceous claystone - as above (claystone)			0.028	
15°	213.458	214.065	0.607					Siltstone - medium grey, fine grained, sandstone laminae, occasional coaly bands			0.607	
								Sandstone - very fine grained, regular siltstone laminae, occasional coal wisps.			0.290	

Form 71-7150-R.J.2

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7612 SHEET No 41

DATE BEGUN: DEPTH: BEARING: U.T.M.

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	THICKNESS Thick	THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int	RECOVERY In	RECOVERY In Rec	RECOVERY %
	214.065	214.95	0.886				707	Top of Box 51			0.436	
							215.494				0.160	
								Siltstone - medium grey with light grey sandstone & dark grey claystone laminae throughout			0.781	
	214.951	216.64	1.69				712				0.444	
							217.018					
	216.641	217.898	1.257					As above - with more frequent claystone units			0.464	
								CORE LOSS				
	217.898	217.918	0.02					Coal - bright & dull			0.020	
	217.918	217.968	0.050					Carbonaceous claystone - fossiliferous bright coaly inclusions			0.050	
14°	217.968	218.464	0.496					Sandstone - fine grained, massive, siltstone phase at top			0.496	
	218.464	218.542	0.078					Siltstone - medium grey			0.078	
							717					
							218.542					
	218.542	218.618	0.076					Silty claystone - dark grey			0.076	
	218.618	218.758	0.14					Claystone			0.140	
	218.758	218.936	0.178					Siltstone - medium grey			0.178	
	218.936	219.186	0.250					Silty claystone - regular bedding, dark grey			0.250	
	219.186	219.40	0.215					Carbonaceous claystone - numerous bright coaly bands 10%			0.215	
								Siltstone - Medium grey with fine grain sandstone interbeds, $CaCO_3$, fractured fill at 70°			0.394	

Form 21-1150-R32

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7612 SHEET No 42

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thic.	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	m.	m. Rec.	%
							722' 220.066				0.261	
								Top of Box 52				
	219.401	220.789	1.388								0.733	
25°								Sandstone - very fine grain, light grey, siltstone phases throughout, occasional coaly wisps			0.570	
							727' 221.590	As above, irregular bedding, massive in places			1.421	
							732' 223.114				0.546	
								Sandstone - fine grain, $CaCO_3$, fractured fills at J.O.A. 73° & 14°, near top			0.976	
								Top of Box 53				
14°							737' 224.638	As above - with $CaCO_3$ fractured fills at			0.914	
								Sandstone - very fine grained with siltstone laminae, irregular bedding, occasional bright coal penny bands			0.460	
											0.061	
							742' 226.162				1.357	
	220.789	227.276	6.487								0.132	
								Siltstone - medium grey, silt claystone interbeds			0.111	
							747' 227.686	As above with $CaCO_3$ fractured fill at 22°			1.124	
								Top of Box 54				
								As above with very fine grained sandstone phases			0.314	

Form 71-1150-R02

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7612 SHEET No 43

DATE BEGUN: DEPTH: BEARING: U.T.M.

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int	RECOVERY m	RECOVERY m. Rec	RECOVERY %
7°							752' 229.210				0.975 0.504	
							757' 230.734				0.911 0.601	
							762' 232.258				0.861	
								Top of Box 55				
								Siltstone - as above with claystone & silty claystone units becoming more frequent, some broken core			0.707	
							767' 233.782				0.714	
							772' 235.306				0.680	
	227.276	235.43	8.154								0.652	
	235.43	235.82	0.390					Siltyclaystone, dark grey with claystone interbeds			0.390	
	235.82	235.952	0.132					Carbonaceous claystone - numerous thin coal bands			0.132	
	235.952	235.962	0.010				777' 236.830	Coal - d. l. banded - broken core			0.010	
								Carbonaceous claystone - as above			0.048	
								Claystone & unconsolidated clay - black some coal wisps			0.105	
	235.962	236.625	0.064					Claystone - black with some coal inclusions & brown siltstone phases near top			0.511	
								Top of Box 56				

Form 71-1150-R02

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7612 SHEET No 44

DATE BEGUN: DEPTH: BEARING: U.T.M.

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thic	UNIT THICKNESS True	COAL SHEET	DESC LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m	RECOVERY m.Rec	RECOVERY %
								Silty claystone - dk grey			0.102	
	236.626	236.828	0.202								0.100	
								Claystone - black			0.047	
	236.828	236.99	0.162					Carbonaceous claystone - fossiliferous, numerous bright coal bands towards base			0.115	
	236.99	237.095	0.105	0.102				Coal - bright			0.105	
	237.095	237.125	0.030	0.029				bright banded			0.030	
	237.125	237.22	0.095	0.093				Siltstone - dark grey			0.095	
	237.22	237.39	0.17	0.166				CORE LOSS (Siltstone)				
	237.39	237.429	0.039	0.038				Coal - D.L.L. bright			0.039	
	237.429	237.489	0.06	0.058		Seam 4		D.L.L. banded			0.060	
Cos 13	237.489	237.50	0.015	0.015		Sample 1 Bag 1		Bright			0.015	
	237.504	237.639	0.135	0.131			782' 238.354	D.L.L. broken core			0.135	
	237.639	237.75	0.111	0.108				D.L.L. - bright broken core			0.111	
	237.75	237.802	0.052	0.051				Sheared			0.052	
	237.802	237.894	0.092	0.090				Bright banded, broken core			0.092	
	237.894	237.99	0.10	0.097				D.L.L. broken core			0.100	
	237.994	238.27	0.28	0.273				D.L.L. banded, friable			0.280	
	238.274	238.45	0.180	0.175		Sample 2		Silty claystone - dark grey becoming sandy twoards base			0.180	
	238.454	239.02	0.574	0.559				Sandstone - fine grain, light grey, siltstone laminae			0.574	
	239.028	239.06	0.035	0.034			787' 239.878	Siltstone - dark grey			0.035	

Form (L.L.SD.R.L)

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7612 SHEET No 45

DATE BEGUN: DEPTH: BEARING: U.T.M.

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m. Rec.	RECOVERY %
	239.063	239.13	0.067	0.065		Sample 2		Carbonaceous claystone, numerous bright coal bands			0.067	
	239.13	239.23	0.10	0.097				Claystone LOSS				
	239.23	239.295	0.065	0.063				Coal - sheared, d. ll. banded, broken core			0.065	
								Claystone			0.145	
	239.293	239.545	0.25	0.244				Carbonaceous claystone - numerous bright coal bands 10%			0.105	
	239.543	239.592	0.049	0.048		Seam 4		Coal - bright, friable			0.049	
	239.592	239.707	0.115	0.112		Sample 3		Claystone with bright coal bands, 20%			0.115	
	239.707	239.732	0.025	0.024		Bag 1		Coal - d. ll. & bright			0.025	
								Claystone			0.040	
	239.732	239.807	0.075	0.073				Carbonaceous claystone			0.035	
	239.807	239.852	0.045	0.044				Coal - bright, banded			0.045	
	239.852	239.877	0.025					Carbonaceous claystone			0.025	
Cos 13°	239.877	241.058	1.181					CORE LOSS (CLAYSTONE)				
	241.058	241.412	0.354					Silty claystone - medium to dark grey			0.354	
							792' 241.402					
	241.412	241.617	0.205					Sandstone - fine grained, massive			0.205	
	241.617	241.682	0.065					Siltstone - medium grey, massive			0.065	
								Top of Box 57				
	241.682	242.812	1.130					Silty claystone - medium grey			1.130	
	242.812	242.926	0.114					Siltstone - light grey			0.114	
							797' 242.926					
	242.926	243.131	0.205					As above			0.205	
	243.131	243.555	0.424					Silty claystone - medium grey, massive			0.424	

Form 21 - 1 50-8-62

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-712 SHEET No 46

DATE BEGUN: DEPTH: BEARING: U.T.M.

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC LOG	MARKER	DESCRIPTION	RECOVERY Int	RECOVERY m	RECOVERY m Rec	RECOVERY %
18°	243.555	243.937	0.382					Sandstone - light grey, fine grained			0.382	
	243.937	244.40	0.464					Silty claystone - medium grey with sandstone phases			0.464	
								Siltstone - medium grey with light grey sandstone laminae			1.480	
								Top of Box 58				
	244.401	245.992	1.591					Siltstone - medium grey, massive with claystone phases			0.111	
							807					
							245.974				0.944	
	245.992	246.272	0.28					Sandstone - light grey, with siltstone laminae			0.280	
	246.272	246.452	0.18					Siltstone - as above			0.180	
								Claystone - dark grey, fossiliferous			0.105	
							812					
	246.452	246.607	0.155				247.498				0.050	
	246.607	247.172	0.565					Siltstone, medium grey with claystone phases at base			0.565	
24°	247.172	247.97	0.80					Sandstone, light grey, fine grain with siltstone laminae, irregular bedding,			0.495	
								3cm carbonaceous claystone phase in middle			0.305	
	247.972	248.012	0.04					Carbonaceous claystone - fossiliferous, many coal bands			0.040	
	248.012	248.565	0.553				817					
							249.022	CORE LOSS				

Form 71-150-R02

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7612 SHEET No 47

DATE BEGUN: DEPTH: BEARING: U.T.M.

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	THICKNESS Thick	THICKNESS True	COAL SHEET	DESC LOG	MARKER	DESCRIPTION	RECOVERY Int	m	m Rec	%
											0.044	
								Coal & claystone - pulverized bright coal with pieces of claystone			0.115	
	248.565	249.028	0.463					Claystone - black - fossiliferous, occasional coaly inclusions			0.304	
								Siltstone - medium grey with claystone & very fine grain sandstone laminae & phases, occasional bright coal stringers			0.564	
								Top of Box 59				
											0.342	
	249.028	250.239	1.211				822' 250.546					
	250.239	250.95	0.712					Sandstone - very fine grain - siltstone laminae, regularly bedded			0.305 0.712	
								Siltstone - as above			0.474	
							827' 252.070					
	250.951	252.915	1.964					As above with claystone phase at base			0.935 0.555	
							832' 253.594					
16°								Sandstone - light grey, fine grained with occasional siltstone laminae			0.542	
								Top of Box 60				
								As above - deformed bedding near top			0.695	

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No.: SD-7612 SHEET No 48

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	THICKNESS Thick	THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int	m.	m-Rec	%
9°	252.915	255.655	2.741				837' 255.118	As above with $CaCO_3$ filled fracture at 68°			0.756 0.748	
							842' 256.642					
								Sandstone - as above but medium grain $CaCO_3$ filled fracture at 57°			0.614 0.976	
							847' 258.166					
								op of Box 61			0.445	
								As above - cross bedded			1.003	
							852' 259.690					
13°	255.656	261.87	6.217					Sandstone - as above with $CaCO_3$ filled fractures at 30° core broken & numerous $CaCO_3$ filled fractures - cavities 5 m from 857' marker			0.423 1.250	
							857' 261.214					
22°								Sandstone - light grey, fine grain with siltstone laminae			0.131 1.350	
							862' 262.738					
								Top of Box 62			0.025	
20°	261.873	262.83	0.962					Sandstone as above			0.962	
	262.835	263.51	0.675					Siltstone - dark grey, broken			0.675	
	263.51	263.58	0.07	0.065			867' 264.252	Claystone, black			0.07	
	263.58	263.68	0.10	0.093				Claystone, black, coaly inclusion			0.10	
	263.68	263.695	0.015	0.014				Coal - d.l.			0.015	

Form 41-1150-R.J.J.

DENSON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No. SD 7612 SHEET No 49

DATE BEGUN: DEPTH: BEARING: U.T.M.

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A. UNIT From	To	UNIT THICKNESS Thick	True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int	m	m. Rec.	%
263.695	263.789	0.094	0.087				Coal - bright banded			0.094	
263.789	263.909	0.12	0.111				" bright banded			0.12	
263.909	264.004	0.095	0.088				" bright			0.095	
264.004	264.119	0.115	0.107				" d. ll banded			0.115	
264.119	264.20	0.081	0.074				COAL LOSS				
264.20	264.48	0.28	0.26				Claystone carbonaceous			0.28	
264.48	264.58	0.10	0.093				COAL LOSS				
264.58	264.64	0.06	0.06		Seam	2	Claystone LOSS				
264.64	264.76	0.08	0.074		Sample	1	COAL LOSS				
264.76	264.92	0.16	0.148		Bag	1	Claystone carbonacious, fossiliferous			0.16	
264.92	265.08	0.16	0.148				COAL LOSS				
265.08	265.15	0.07	0.065				Claystone - dark carbonacious			0.07	
265.15	265.22	0.070	0.065				Coal - d. ll			0.07	
265.22	265.36	0.14	0.13				Claystone LOSS				
265.36	265.39	0.035	0.033				Coal bright			0.035	
265.395	265.42	0.030	0.028				Coal - d. ll banded			0.03	
265.425	265.55	0.125	0.116				" D. ll			0.125	
265.55	265.63	0.08	0.074			872	" D. ll bright			0.08	
265.63	265.72	0.09	0.083			265.786	Claystone, carbonaceous			0.09	
265.72	265.92	0.20	0.185				Claystone LOSS				
265.92	266.11	0.195	0.181				Coal - d. ll-bright			0.195	
266.115	266.19	0.08	0.074			↓	Coal - d. ll-pulverized			0.08	
266.195	266.28	0.085	0.079				COAL LOSS				
							Claystone LOSS				
							Claystone - carbonacious fragments,				
266.268	266.968	0.70					fossiliferous			0.190	
							Top of Box 63				

Form 71-1550 Rev

PAPER 10 X 10 TO THE CENTIMETER 18 X 25 CM.

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

461510

HOLE No: SD-7612 SHEET No: 50

DATE BEGUN: DEPTH: BEARING: U.T.M.:
DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:
LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	THICKNESS Thick.	THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m. Rec	RECOVERY %
								Claystone			0.130	
											0.022	
	266.968	267.310	0.342				877'					
							267.310					
								Claystone - carbonaceous			0.125	
	267.310	267.828	0.518					Claystone - silty, siltstone phases			0.393	
25° at base								Sandstone - fine grain			0.625	
	267.828	269.893	2.065					Sandstone - very fine grain, siltstone interbeds			0.460	
							882'				0.980	
							268.834					
	269.893	270.295	0.402					Claystone - silty			0.402	
								claystone phases, dark grey, broken core			0.196	
							887'					
	270.295	271.021	0.726				270.358				0.530	
	271.021	271.343	0.322					Sandstone - very fine grain, siltstone interbeds			0.322	
								Top of Box 64				
	271.343	271.518	0.175								0.175	
	271.518	272.373	0.855					Siltstone - medium grey, claystone, very fine grain, sandstone interbeds			0.545	
							892'					
							271.882					
											0.310	
	272.373	272.588	0.215					Sandstone - fine grain			0.215	
								Siltstone - medium grey, claystone - very fine grain, sandstone interbeds			0.146	
											0.920	

Form ZL-0150-B03

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

461510

HOLE No: SD-7612 SHEET No: 51

DATE BEGUN: DEPTH: BEARING: U.T.M.:
DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:
LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick.	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m. Rec.	RECOVERY %
							897' 273.406					
											0.500	
								As above with fine grain sandstone in centre			1.027	
							902' 274.930					
	272.588	277.79	5.208					Siltstone as above			0.408	
								Top of Box 65				
								Siltstone - as above with silty clay stone phases			.444	
											0.763	
	277.796	77.82	0.03					Coal - stoney, bright bands 10%			0.030	
	277.826	277.86	0.035					d. l. banded			0.035	
	277.861	77.87	0.015					bright			0.015	
	277.876	277.96	0.085					d. l. & bright, pulverized			0.085	
							912' 277.978					
								Claystone - silty			0.327	
	277.961	78.338	0.377								0.050	
19°	278.338	278.988	0.650					Siltstone - dk medium grey, fine grain sandstone & claystone laminae			0.650	
	278.988	279.516	0.528					Silty claystone - dark grey, massive fossiliferous			0.152	
											0.315	
							917' 279.502					
	279.516	279.726	0.210					Siltstone - medium grey with fine grain sandstone & claystone laminae			0.061	
											0.210	

461510

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7612 SHEET No: 52

DATE BEGUN: DEPTH: BEARING: U.T.M.:
DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:
LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	THICKNESS Thick	THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m. Rec.	RECOVERY %
	279.726	280.744	1.018					Sandstone - very fine grain, with siltstone interbeds - calcite fracture in middle J.C.A. = 10°			1.018	
								Siltstone - medium grey - very fine grain, sandstone & claystone laminae			0.392	
							922' 281.026					
	280.744	281.86	1.116								0.724	
	281.86	281.96	0.100					Claystone - silty			0.100	
	281.96	281.985	0.025					Coal - stoney, with calcite fracture filling bright coal bands 5%			0.025	
	281.985	282.007	0.022					- dull banded			0.022	
	282.007	282.282	0.275					- dull & bright			0.275	
								Claystone - carbonaceous, some bright coal bands			0.112	
								"			0.115	
							927' 282.550					
	282.282	282.659	0.377					Claystone - coaly inclusions			0.150	
9° at top								Siltstone - medium grey, sandy at base regular bedding Top of Box 67			1.078	
								Rock as above			0.131	
							932' 284.074					
	282.659	284.396	1.737								0.528	

Form 71-0150-R02

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

461510

HOLE No: SD-7612 SHEET No: 53

DATE BEGUN: DEPTH: BEARING: U.T.M.:
DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:
LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Inf.	RECOVERY m.	RECOVERY m. Rec.	RECOVERY %
	284.396	285.125	0.729					Silty claystone - medium grey with siltstone interbeds, occasional bright coal stringers			0.724	
	285.252	285.223	0.098					Claystone - medium grey, broken core			0.098	
							937' 285.598					
	285.223	285.499	0.276					As above - fossiliferous			0.276	
	285.499	285.937	0.438					Silty claystone - as above			0.438	
								Siltstone - medium grey with claystone interbeds - sandy towards base			0.460	
	285.937	286.512	0.575								0.115	
19° - a top								Sandstone - very fine grain, light grey siltstone laminae			0.269	
							942' 287.122	As above with calcite filled slickenside J.C.A. = 6° & Joint - J.C.A. = 78°			1.020	
								Top of Box 68				
								Sandstone - light grey, fine grain with siltstone phases			0.575	
	286.512	294.589	8.077				947' 288.646	$CaCO_3$ filled fracture near top J.C.A. 20°			0.870	
											0.670	
							952' 290.170					
16°											0.759	
							957' 291.694	Top of Box 69			0.847	
											0.595	
											0.883	

Form 71-0150-B02

661510

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7612 SHEET No: 54

DATE BEGUN: DEPTH: BEARING: U.T.M.:
DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:
LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick.	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m. Rec.	RECOVERY %
							962' 293.218	Cross bedded in places			0.542	
								$CaCO_3$ filled fractures, J.C.A. 18° & 85° broken core slickensides			1.047	
							967' 294.742					
14°								Sandstone - as above $CaCO_3$ filled fractures at 16° & 58° (U.C.A.)			0.297	
								$CaCO_3$ fracture - J.C.A. 68°			1.179	
							972' 296.266	Top of Box 70			0.236	
								Sandstone - as above - fractures at J.C.A. 12°			0.975	
	24.589	99.59	5.005				977' 297.790	Sandstone - very fine grain, light grey frequent siltstone laminae			0.492	
							982' 299.314	$CaCO_3$ fractures, 60 & 65° (J.C.A.)			0.643	
								Top of Box 71			0.095	
							987' 300.838	As above with 15cm siltstone phase 1m from 987 marker, some broken core			1.088	
17°												
	29.594	100.11	0.516					Sandstone as above with 2 $CaCO_3$ fractures J.C.A. = 75°			0.516	
							992' 302.362					

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

461510

HOLE No: SD-7612 SHEET No: 55

DATE BEGUN: DEPTH: BEARING: U.T.M.:
DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:
LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	THICKNESS Thick.	THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	m.	m. Rec.	%
								Siltstone - very sandy with sandstone interbeds			0.490	
											0.378	
											0.833	
							997' 303.886					
	300.11	302.30	2.19								0.550	
								Top of Box 72				
	302.30	303.06	0.760					Claystone, dark, at base few coal strings			0.760	
	303.06	304.41	1.350				1002' 305.410	Claystone - very carbonaceous, few coal bands, slickenside, broken			.350	
	304.41	304.85	0.44	0.425			1007' 306.934	Coal - d. l.l., broken			0.440	
	304.85	304.88	0.03	0.029	Sample 1			Claystone - carbonaceous with coal stringers			0.030	
	304.88	304.95	0.07	0.068				Coal - d. l.l. - banded			0.07	
	304.95	305.18	0.23	0.222				COAL LOSS				
15°							1012' 308.458					
	305.18	305.66	0.48	0.464	Sample 2			Claystone, dark carbonaceous, few coal bands, sheared and slickenside			0.48	
	305.66	306.12	0.46	0.444				Claystone LOSS				
	306.12	306.61	0.49	0.473				Coal - d. l.l., broken			0.49	
	306.61	306.63	0.02	0.019				Coal - d. l.l. - bright			0.02	
	306.63	307.20	0.57	0.551	Sample 3			COAL LOSS — Top of Box 73				
	307.20	307.44	0.24	0.232			1017' 309.982	CLAYSTONE LOSS				
	307.44	307.92	0.48	0.464				Coal - sheared, pulverized			0.48	
	307.92	308.55	0.63	0.609				Coal - d. l.l., banded, broken			0.63	
	308.55	311.02	2.47	2.386			1022' 311.500	COAL LOSS				
	311.02	311.19	0.17	0.164				CLAYSTONE, dark carbonaceous with slickenside			0.17	

Form 71-0160-B02

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7612 SHEET No: 56

DATE BEGUN: DEPTH: BEARING: U.T.M.:
DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:
LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick.	UNIT THICKNESS True	COAL SHEET	DESC LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m. Rec.	RECOVERY %
3	11.19	311.28	0.09	0.087				CLAYSTONE LOSS				
3	11.28	311.30	0.02	0.019				COAL SHEARED			0.02	
3	11.30	311.37	0.07	0.068			1027'					
							313.030	COAL LOSS				
3	11.37	311.55	0.180	0.174				Claystone - carbonaceous, slickenside grading into siltstone			0.180	
15° 3	11.55	312.27	0.720					Siltstone - grey			0.720	
3	12.27	312.68	0.41					Claystone - dark			0.41	
							1032'					
							314.554					
3	12.68	313.67	0.69					Siltstone, medium grey with sandstone & claystone interbeds			0.690	
								Top of Box 74				
3	13.67	313.76	0.393					Siltstone, light-medium grey, irregular bedding, thin $CaCO_3$ fracture - J.C.A. 75°			0.393	
								Sandstone - very fine grain, light grey siltstone laminae, several $CaCO_3$ fractures (thin) J.C.A. = 75°			0.278	
3	13.763	315.618	1.855				1037'					
							316.078	As above including $CaCO_3$ fractures J.C.A. 75°			0.750	
							1042'				0.827	

PROJECT SAXON

HOLE NO. 7613 BEARING 040° ANGLE 60°

COLLAR ELEVATION _____ TOTAL DEPTH 281.03m

Seam No. 10 Structure Contour Elevation _____

Coal Interval 155.320-156.28 34° Dip (Geophysical Log Pick)

Coal Thickness .796 Isopach Not mineable - .80
total rock 0

Core Data:

A. Coal Present .284 Rock Present -

Coal Absent .512 Rock Absent -

Total Coal 0.796 Total Rock -

Grand Total 0.796m

B. Rock/Coal _____

C. % Core Recovery 35.68

Seam No. 5 Structure Contour Elevation _____

Coal Interval 187.583-108.440 37° Dip (Geophysical Log Pick)

Coal Thickness .726 Isopach Not mineable - .73
Total rock - 0

Core Data:

A. Coal Present .680 Rock Present -

Coal Absent .046 Rock Absent, -

Total Coal .726 Total Rock -

Grand Total 0.726m

B. Rock/Coal -

C. % Core Recovery 93.66

Seam No. _____ Structure Contour Elevation _____

Coal Interval _____ (Geophysical Log Pick)

Coal Thickness _____ Isopach _____

Core Data:

A. Coal Present Rock Present

Coal Absent _____ Rock Absent _____

Total Coal Total Rock

Grand Total _____

B. Rock/Coal _____

C. % Core Recovery _____

K+E 10 X 10 TO THE CENTIMETER 18 X 25 CM
KEUFFEL & ESSER CO. MADE IN U.S.A.

461510

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD 7613 SHEET No: 1

DATE BEGUN: October, 1976 DEPTH: BEARING: 60° UTM:

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: 281.026 COAL LICENSE:

LAT.: HOLE ANGLE: 40° LOGGED BY: L. DELAS CORE SIZE: HQ

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick.	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Inf.	RECOVERY m.	RECOVERY m. Rec.	%
25	0	7.062	7.062	Core loss				Siltstone - light grey, with sandy laminae			0.558	
							25					
							7.620					
	7.062	7.620	0.558									
	7.620	7.760	0.140					Silty claystone			0.140	
	7.760	8.454	0.694					Sandstone - light grey v.f.g. with small beds of siltstone			0.694	
							28					
							8.534					
	8.454	9.691	1.237					Sandstone - light grey, m.g. to f.g. with regular black stringers partly oxidized.			1.237	
							32					
							9.754					
	9.691	10.636	0.945					Siltstone - sandy, regular bedded			0.945	
	10.636	11.246	0.610					Siltstone - medium grey, massive bedded, broken core			0.610	
							37					
							11.278					
	11.246	11.339	0.093					As above			0.093	
								-- END OF BOX 1 --				
	11.339	11.469	0.130					As above			0.130	
	11.469	12.056	0.587					Silty claystone - med. to dark grey, highly broken			0.587	
							40					
							12.912					
	12.056	12.329	0.273					As above			0.273	

Form 71-0150-R02

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

461510

HOLE No: SD 7613 SHEET No: 2

DATE BEGUN: DEPTH: BEARING: UTM:
DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:
LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT Thick.	THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m. Rec.	RECOVERY %
	12.329	12.889	0.560					Siltstone - light grey with some sandy bands, partly oxidized			0.560	
	12.889	13.522	0.633					Sandstone - light grey, f.g., with some carbonaceous specks at base.			0.633	
							45 / 13.716					
	13.522	13.902	0.380					As above - oxidized			0.380	
	13.902	14.514	0.612					Sandstone - med grained, light grey, large coaly inclusions			0.612	
	14.514	14.840	0.325					Sandstone - as above with frequent calcite fractures			0.325	
	14.840	14.985	0.145					Sandstone - light grey, mg. to cg., massive bedded			0.145	
	14.985	15.240	0.255		Core	Loss	50 / 15.240					
28	15.240	15.680	0.440					As above			0.440	
								--- END OF BOX 2 ---				
	15.680	15.922	0.242					Sandstone - as above			0.242	
	15.922	16.075	0.153					Conglomerate Grains - 5 mm. massive			0.153	
25°	16.075	16.682	0.607					Sandstone - light grey, very coarse grained with frequent grit size of grains. Massive			0.607	
							55 / 16.764					
	16.682	17.532	0.850					As above			0.850	
	17.532	17.724	0.192					Sandstone - Light grey, med. to fine grained, oxidized			0.192	
	17.724	18.132	0.408					Sandstone - Light grey, coarse grained massive, good cores.			0.408	
							60 / 18.288					

Form 71-0150-R02

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

461510

HOLE No: SD 7613 SHEET No: 3

DATE BEGUN: DEPTH: BEARING: U.T.M.:
DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:
LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick.	UNIT THICKNESS True	COAL SHEET	DESC LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m. Rec.	RECOVERY %
	18.132	18.712	0.580					As above			0.580	
							62					
							18.898					
	18.712	20.043	1.331					As above			1.331	
								- - BOX 3 - -				
	20.043	20.273	0.230					As above			0.230	
							67					
							20.422					
	20.273	20.627	0.354					As above			0.354	
	20.627	21.747	1.120					Conglomerate - grit size of grains with coarse sandy martix. Massive			1.120	
	21.747	22.107	0.360					As above			0.360	
	22.107	23.023	0.916					Conglomerate - Grains between 5 - 10 mm. Good, massive cores.			0.916	
							77					
							23.470					
	23.023	23.756	0.733					As above			0.733	
	23.756	24.221	0.465				79	As above			0.465	
							24.079					
								- - BOX 4 - -				
	24.221	24.554	0.333					As above			0.333	
	24.554	24.994	0.440		Core	Loss	82					
							24.994					
	24.994	25.044	0.050					Claystone - Carbonaceous with coaly inclusion, broken core.			0.050	
27°	25.044	25.329	0.285					Sandstone - Light to med. grey, fine grained, partly oxidized			0.285	
	25.329	25.788	0.459					Sandstone - as above with some siltstone interbedded and few carbon stringers.			0.452	

Form 71-0150-R02

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

K & E 18 X 10 TO THE CENTIMETER 18 X 25 CM. KEUFFEL & ESSER CO. MADE IN U.S.A. 46 1510

HOLE No: SD 7613 SHEET No: 4

DATE BEGUN: DEPTH: BEARING: UTM:

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick.	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m. Rec.	RECOVERY %
25°	25.788	26.093	0.305					Siltstone - Medium grey with carbon inclusions. Massive.			0.305	
	26.093	26.198	0.105					Silty claystone - Med. to dark grey with black carbon inclusions.			0.105	
	26.198	26.455	0.257				87 26.518	Siltstone - with small beds and martix of sandstone.			0.257	
32°	26.455	27.825	1.370				92 28.042	As above, but more sandy at base.			1.370	
	27.825	28.908	1.083					Rock as above - - BOX 5 - -			1.083	
	28.908	29.220	0.312				97 29.566	Rock as above			0.312	
32°	29.220	29.860	0.640					Sandstone - light grey, fine grained with silty matrix and some $CaCO_3$			0.640	
	29.860	30.665	0.805				102 31.090	Siltstone - med. grey with small beds of sandstone and carbon. inclusion			0.805	
	30.665	30.883	0.218					As above			0.218	
	30.883	31.948	1.065					As above but core highly broken			1.065	
	31.948	32.614	0.666		Core Loss		107 32.614					

Form 71-0150-R02

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7613 SHEET No: 5

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick.	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m	RECOVERY m. Rec.	RECOVERY %
26°	32.614	33.367	0.753					Sandstone - fine grained with dark silty laminae, regular bedded			0.753	
	33.367	33.663	0.296					Silty claystone - dark grey with many carbon. specks			0.296	
	33.663	33.903	0.240					Sandstone - light grey, med. grained, massive			0.240	
								- - BOX 6 - -				
	33.903	34.188	0.285					As above			0.285	
							112 34.138					
	34.188	35.198	1.010					Sandstone - light grey, med. to coarse grained, massive, some $CaCo_3$			1.010	
	35.198	35.623	0.425					Siltstone - med. grey with some small beds of sandstone and carbon laminae			0.425	
							117 35.662					
	35.623	35.906	0.283					Silty Claystone - dark, carbonaceous specks and inclusions			0.283	
32°	35.906	36.261	0.355					Sandstone - med. grey, fine grained regular bedded			0.355	
	36.261	36.523	0.262					Silty Claystone - dark, carbonaceous			0.262	
	36.523	37.04	0.517					Sandstone - light grey, fine grained, some $CaCo_3$, partly oxidized			0.517	

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7613 SHEET No: 6

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick.	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m. Rec.	RECOVERY %
							122 / 37.185					
	37.04	37.492	0.452					Silty Claystone - dark grey to black, regular bedded, coaly stringens			0.452	
	37.492	37.688	0.196					Sandstone - light grey, med. grained with some $CaCo_3$			0.196	
	37.688	37.983	0.295					Siltstone - dark grey, carbonaceous inclusions, broken core			0.295	
								- - BOX 7 - -				
30°	37.983	38.078	0.095					Rock as above			0.095	
	38.078	38.614	0.536					Sandstone - light to med. grey, fine grained, carbonaceous, regular bedded			0.536	
							127 / 38.710					
	38.614	38.746	0.132					As above			0.132	
	38.746	39.701	0.955					Siltstone - med. grey, interbedded with small sandy beds, broken core at top			0.955	
	39.701	40.071	0.370					Sandstone - light to med. grey, fine grained, regular bedded, oxidized at base			0.370	

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7613 SHEET No: 7

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick.	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m. Rec.	RECOVERY %
	40.071	40.234	0.163					Core Loss				
							132 / 40.234					
	40.234	40.442	0.208					As above, but more oxidized and broken core at base			0.208	
34°	40.462	41.267	0.805					Claystone - dark grey, carbonaceous regular bedded			0.805	
							137 / 41.758					
	41.267	41.735	0.468					As above			0.468	
								- - BOX 8 - -				
	41.735	42.805	1.070					As above			1.070	
							142 / 43.282					
	42.805	43.90	1.095					As above but core broken at base with coal inclusion			1.095	
							147 / 44.800					
	43.90	44.055	0.155	0.129				Coal - d. 1 - bright, friable			0.155	
	44.055	45.115	1.060	0.879				Claystone - dark grey, very carbonaceous regular bedded			1.060	
	45.115	45.350	0.235	0.195				Coal - d. 1 with bright stringers			0.235	
							152 / 46.330					

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DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7613 SHEET No: 8

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick.	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m. Rec.	RECOVERY %
	45.350	45.550	0.200	0.166				Coal - dull-bright			0.200	
	45.550	46.891	0.341	0.283				Core loss (Claystone)				
	46.891	46.363	0.272	0.225				Claystone - dark with coaly inclusions broken cores			0.272	
								- - BOX 9 - -				
	46.363	46.877	0.524	0.434				As above			0.524	
	46.877	47.037	0.150	0.124				Coal - dull, sheared, friable			0.150	
	47.037	47.255	0.218	0.181				Claystone - dark to black with coaly inclusions, very broken core			0.218	
							157 47.854					
	47.255	47.648	0.393	0.326				As above			0.393	
	47.648	47.748	0.100	0.983				Coal - dull, sheared			0.100	
	47.748	48.080	0.322	0.267				Claystone - dark to black, coaly inclusions and on slickenside, very broken core			0.322	
34°	48.08	48.39	0.310	0.257				Coal - dull, friable			0.310	
	48.390	48.730	0.340	0.282				Coal loss				
							162 49.378					
	48.730	49.378	0.648	0.537				Claystone loss				
	49.378	50.558	1.180	0.978				Claystone - light grey, regular bedded soft and friable at base			1.180	

Form 71-0150-R02

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7613 SHEET No: 9

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick.	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m. Rec.	RECOVERY %
	50.558	50.728	0.200	0.166				Coal - d.l.l. friable			0.200	
	50.728	50.840	0.112	0.093				Coal loss				
	50.840	50.967	0.127	0.105				Claystone - dark, sheared and pulverized highly broken core			0.127	
							167 / 50.902					
	50.967	51.08	0.113	0.094				as above			0.113	
	51.08	51.299	0.219	0.182				Coal loss				
	51.299	51.434	0.135	0.112				Coal - d.l.l., sheared and friable			0.135	
	51.434	51.476	0.042	0.035				Claystone - very carbonaceous with coaly inclusions			0.042	
								- - BOX 10 - -				
	51.476	51.576	0.100					As above			0.100	
33°	51.576	51.889	0.313					Silty Claystone - med. grey, massive, regular bedded			0.313	
	51.889	52.426	0.537					Siltstone - light to med. grey, carbonaceous laminae and small sandy beds			0.537	
							172 / 52.426					
	52.426	53.854	1.482					As above			1.482	
							177 / 53.950					
	53.854	55.101	1.247					As above			1.247	
38°	55.101	55.414	0.313					Sandstone - light grey, fine grained with laminae of siltstone regular bedded			0.313	

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DENISON COAL LIMITED

DIAMOND DRILL CORE LOG

HOLE No: SD-7613 SHEET No: 10

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick.	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m. Rec	RECOVERY %
							182					
							55.474					
40°	55.414	55.829	0.415					As above			0.415	
								- - BOX 11 - -				
	55.829	56.034	0.205					As above			0.205	
	56.034	56.458	0.424					Claystone - med. grey, carbonaceous specks and stringers, broken at base			0.424	
	56.458	56.96	0.502					Sandstone - light grey, very fine grained, silty laminae			0.502	
							187					
							56.998					
	56.96	57.472	0.512					As above			0.512	
35°	57.472	58.387	0.915					Siltstone - med. grey, some sandy small strings, good core			0.915	
							192					
							58.523					
	58.387	59.839	1.452					As above			1.452	
							197					
							60.046					
	59.839	59.999	0.160					Silty Claystone - dark grey, carbonaceous inclusions, weathered core broken			0.160	
								- - BOX 12 - -				

Form 71-0150-R02

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7613 SHEET No: 11

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick.	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m.Rec	RECOVERY %
26°	59.999	61.009	1.010					Claystone - med. grey, some carbon, speck, regular bedded, pulverized at top			1.010	
	61.009	61.570	0.561									
							202 / 61.570					
	61.570	63.077	1.507					Siltstone - light to med. grey, with laminae of claystone, irregular bedded			1.507	
							207 / 63.094					
	63.077	63.247	0.170					As above			0.170	
28°	63.247	64.693	1.446					Sandstone - very silty and massive, fine grained, irregular bedded			1.446	
								- - BOX 13 - -				
							212 / 64.618					
	64.693	64.963	0.270					As above			0.270	
	64.963	66.165	1.202					Silty Claystone - dark grey, some carbon inclusions, weathered core highly broken at top			1.202	
	66.165	66.389	0.224					Siltstone - med. grey massive			0.224	
							217 / 66.142					
	66.389	67.009	0.620					As above			0.620	
	67.009	67.674	0.665					Silty Claystone - dark grey with coal inclusion, core highly broken			0.665	

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DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7613 SHEET No: 12

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.G.A.	UNIT From	UNIT To	UNIT THICKNESS Thick.	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m. Rec.	RECOVERY %
							221 67.36					
	67.674	67.827	0.223					As above			0.223	
	67.827	68.877	1.050					Sandstone - light grey, med. to coarse grained, some $CaCo_3$			1.050	
								- - BOX 14 - -				
	68.877	69.330	0.453					As above			0.453	
							226 68.885					
	69.330	70.728	1.398					As above, but partly oxidized			1.398	
							231 70.409					
27°	70.728	71.960	1.232					Sandstone - light grey, coarse grained with some coaly stringers			1.232	
	71.960	72.24	0.280					Siltstone - light to med. grey, weathered cores highly broken			0.280	
							236 71.933					
	72.24	72.552	0.312					As above			0.312	
	72.552	73.117	0.565					Siltstone - dark grey, carbonaceous with coaly laminae, sandy at base			0.565	
								- - BOX 15 - -				
	73.117	73.472	0.355					As above			0.355	

Form 71-0150-R02

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7613 SHEET No: 13

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick.	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m. Rec	RECOVERY %
							241 73.457					
20°	73.472	74.500	1.028					Siltstone - as above, more sandy and massive			1.028	
	74.500	75.150	0.650					Silty Claystone - dark, carbonaceous, regular bedded, coaly inclusions at slickenside			0.650	
							246 74.987					
	75.150	75.277	0.127					As above			0.127	
	75.277	75.582	0.305					Sandstone - med. to coarse grained with coaly laminae and specks			0.305	
	75.582	76.422	0.840					Silty Claystone - dark grey, very carbonaceous core highly broken at base			0.840	
							251 76.505					
24°	76.422	77.209	0.787					Siltstone - med. grey, irregular bedded massive			0.787	
								- - BOX 16 - -				
	77.209	77.436	0.227					As above			0.227	
	77.436	79.041	1.605					Sandstone - light grey, med. to coarse grained carbon. laminae, massive			1.605	
	79.041	79.251	0.210					Claystone - dark, very carbonaceous, regular bedded			0.210	

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DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7613 SHEET No: 14

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY nt	RECOVERY m.	RECOVERY m. Rec.	RECOVERY %
							261					
							79.553					
	79.25	79.958	0.707					As above, but highly broken at base			0.707	
	79.958	80.260	0.302					Core loss				
	80.260	80.340	0.080	0.069				Coal - d. bl. friable			0.080	
	80.340	80.838	0.498					Core loss				
32°	80.838	82.296	1.458					Claystone - med. grey with carbonaceous inclusions, regular bedded			1.458	
								- - BOX 17 - -				
							270					
							82.296					
	82.296	82.459	0.163					As above			0.163	
40°	82.459	84.249	1.790					Sandstone - light to med. grey, interbed of small beds of siltstone some carbon laminae at base			1.790	
							277					
							84.430					
	84.249	85.094	0.845					As above			0.845	
	85.094	85.671	0.577					Silty Claystone - med. to dark grey, some carbon. inclusions at base			0.577	
34°	85.671	86.653	0.982					Sandstone - med. grey, fine grained small silty beds			0.982	
								- - BOX 18 - -				
	86.653	87.163	0.510					As above			0.510	

Form 71-0150-R02

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7613 SHEET No: 15

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A	UNIT From	UNIT To	UNIT THICKNESS Thick.	UNIT THICKNESS True	COAL SHEET	DESC LOG	MARKER	DESCRIPTION	RECOVERY ft.	RECOVERY m.	RECOVERY n. Rec.	RECOVERY %
							287 / 87.478					
	87.163	88.395	1.232					As above			1.232	
	88.395	90.269	1.874					Siltstone - med. grey, massive, sandy at top and very broken at base			1.874	
	90.269	90.526	0.257					Core loss				
							297 / 90.526					
	90.526	91.126	0.600					As above, but good cores			0.600	
								- - BOX 19 - -				
27°	91.126	91.831	0.705					As above			0.705	
	91.831	92.671	0.840					Claystone - dark grey, with some coaly inclusions			0.840	
	92.671	92.896	0.225					Claystone - highly broken and friable at base very coaly and carbonaceous			0.225	
	92.896	93.246	0.350					Silty Claystone - med. grey with carbonaceous laminae			0.350	
							307 / 93.574					
	93.246	93.518	0.272					As above			0.272	
37°	93.518	94.161	0.643					Sandstone - very fine grained with silty beds			0.643	
	94.161	94.361	0.200					Claystone - highly broken and carbon and coaly inclusions			0.200	
	94.361	94.743	0.382					Core Loss				

Form 71-0150-R02

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7613 SHEET No: 16

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A	UNIT From	UNIT To	THICKNESS Thick	THICKNESS True	COAL SHEET	DESC LOG	MARKER	DESCRIPTION	RECOVERY ft	RECOVERY m	RECOVERY m Rec	RECOVERY %
	94.743	94.868	0.125	0.106				Coal - dull-bright, pulverized, friable			0.125	
32°	94.868	95.510	0.642					Claystone - dark, carbonaceous, regular bedded, good cores			0.642	
								- - BOX 20 - -				
	95.510	95.802	0.292					As above			0.292	
	95.802	96.622	0.820					Siltstone - light to med. grey with carbon laminae			0.820	
							317 96.622					
	96.622	97.856	1.234					As above			1.234	
	97.856	98.976	1.120					Claystone - dark grey with coaly laminae and coal on slicken side			1.120	
	98.976	99.106	0.130	0.113				Coal - dull, friable			0.130	
27°	99.106	99.659	0.553					Claystone - very carbonaceous and coaly inclusions			0.553	
							327 99.670	- - BOX 21 - -				
	99.559	100.434	0.775					As above			0.775	
30°	100.434	102.604	2.170					Siltstone - light to med. grey, regular bedded massive good long cores			2.170	

Form ZL-0150-B02

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7613 SHEET No: 17

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A	UNIT From	UNIT To	THICKNESS Thick.	THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY nt.	RECOVERY m.	RECOVERY m. Rec.	RECOVERY %
							337 / 102.718					
	102.604	103.67	1.066					As above			1.066	
	103.67	103.965	0.295					Claystone - med. grey, carbonaceous and coaly laminae, core broken at base			0.295	
								- - BOX 22 - -				
	103.965	104.309	0.344					As above			0.344	
	104.309	105.469	1.160					Siltstone - light to med. grey, regular beds massive			1.160	
							347 / 105.766					
	105.469	108.442	2.973					As above, but few veins of $CaCo_3$			2.973	
								- - BOX 23 - -				
42°	108.442	108.647	0.205					As above			0.205	
							357 / 108.814					
	108.647	111.189	2.542					Silty Claystone - med. to dark grey with carbon. inclusion, some small sandy beds			2.542	
	111.189	111.759	0.570					Sandstone - med. to coarse grained, light gr. with some veins of $CaCo_3$, core broken at top			0.570	
							367 / 111.862					

Form ZL-0150-802

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7613 SHEET No: 18

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A	UNIT From	UNIT To	UNIT THICKNESS Thick.	UNIT THICKNESS True	COAL SHEET	DESC LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m Rec.	RECOVERY %
47°	111.759	112.701	0.942					As above			0.942	
								- - BOX 24 - -				
	112.701	114.001	1.300					As above			1.300	
	114.001	114.764	0.763					Siltstone - light to med. grey with small sandy beds and carbon laminae and specks			0.763	
							376 114.605					
	114.764	115.264	0.500					As above			0.500	
	115.264	116.649	1.385					Claystone - with many coaly and carbon inclusions, core highly broken at top			1.385	
							383 116.739					
38°	116.649	116.861	0.212					As above			0.212	
								- - BOX 25 - -				
	116.861	118.781	1.920					As above			1.920	
	118.781	118.803	0.022	0.018				Coal - d. bl., friable (small beds between claystone)			0.022	
	118.803	119.998	1.195					Claystone - very carbonaceous with laminae of coal irregular bedded			1.195	
	119.998	120.04	0.042	0.035				Coal - bright, interbedded in claystone			0.042	

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7613 SHEET No: 19

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A	UNIT From	UNIT To	THICKNESS Thick.	THICKNESS True	COAL SHEET	DESC LOG	MARKER	DESCRIPTION	RECOVERY int.	RECOVERY m.	RECOVERY m. Rec.	RECOVERY %
	120.04	120.62	0.580					Claystone - with laminae of coal and carbon inclusions			0.580	
	120.620	121.006	0.386					Core loss				
							397 / 121.006					
29°	121.006	121.549	0.543					Silty Claystone - med. grey with coaly strings, sandy at base			0.543	
								- - BOX 26 - -				
	121.549	123.159	1.610					As above			1.610	
							405 / 123.444					
	123.159	124.381	1.222					As above			1.222	
	124.381	125.724	1.343					Siltstone - light to med. grey, some carbon stringers, massive			1.343	
							412 / 125.578					
32°	125.724	125.804	0.080					As above			0.080	
								- - BOX 27 - -				
	125.804	126.539	0.735					As above			0.735	
							417 / 127.102					
	126.539	128.550	2.011					As above			2.011	
	128.550	128.800	0.350					Core loss				
							425 / 129.540					

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DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7613 SHEET No: 20

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC LOG	MARKER	DESCRIPTION	RECOVERY ft	RECOVERY m	RECOVERY m Rec	RECOVERY %
	128.800	129.65	0.850					Claystone - very carbon. with coaly laminae core highly broken at top			0.850	
	129.65	130.10	0.450	0.404				Coal - d. ll-bright, friable			0.450	
								- - BOX 28 - -				
	130.10	131.052	0.952					Claystone - dark to black with small beds and laminae of coal, broken core			0.952	
	131.052	131.674	0.622					Core loss				
							432 / 131.674					
	131.674	132.036	0.362					As above			0.362	
	132.036	132.091	0.055	0.049				Coal - bright-friable			0.055	
	132.091	132.339	0.248					Claystone - very carbonaceous with coaly inclusions			0.248	
	132.339	132.369	0.030	0.027				Coal - d. ll-bright, pulverized			0.030	
	132.369	132.826	0.457					Claystone - very carbonaceous and core highly broken			0.457	
							436 / 132.893					
	132.826	133.296	0.470					As above			0.470	
	133.296	134.218	0.922					Siltstone - med. grey, laminated coaly strings small sandy bands			0.922	
27°	134.218	135.188	0.970					Sandstone - fine to med. grained with silty bands, few veins of $CaCo_3$			0.970	

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DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7613 SHEET No: 21

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY ft	RECOVERY m	RECOVERY n. Rec	RECOVERY %
	135.188	135.908	0.720					As above			0.720	
							447 / 136.246					
	135.908	136.621	0.713					As above			0.713	
	136.621	137.476	0.855					Sandstone - fine to med. grained, massive with many $CaCo_3$ veins			0.855	
52°	137.476	138.044	0.568					Sandstone-Breccia - as above, but more veins and strings of $CaCo_3$ and core broken at top - small fault			0.568	
	138.044	138.986	0.942					Sandstone - light grey, fine to med. grained regular bedded, massive			0.942	
							457 / 139.294					
41°	138.986	139.511	0.525					As above			0.525	
								- - BOX 80 - -				
	139.511	142.199	2.688					As above			2.688	
							467 / 142.342					
	142.199	142.873	0.674					As above			0.674	
	142.873	143.143	0.270					Claystone - Carbonaceous with $CaCo_3$ veins argillaceous			0.270	
35°	143.143	143.426	0.283					Sandstone - light grey, med. grained with $CaCo_3$			0.283	

Form 71-0150-R02

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7613 SHEET No: 22

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A	UNIT From	UNIT To	THICKNESS Thick	THICKNESS True	COAL SHEET	DESC LOG	MARKER	DESCRIPTION	RECOVERY Int	RECOVERY m	RECOVERY m.Rec	RECOVERY %
	143.426	143.808	0.382					Silty Claystone - dark, coaly inclusions with sandy bands, core highly broken			0.382	
								- - END OF BOX 31 - -				
	143.808	144.493	0.685					Siltstone - med. grey with small sandy bands good long cores			0.685	
	144.493	145.126	0.633					Sandstone - light grey, fine to med. grained massive			0.633	
28°							477 / 145.890					
	145.126	148.056	2.930					As above			2.930	
								- - BOX 32 - -				
44°	148.056	148.438	0.382					As above			0.382	
							487 / 148.438					
	148.438	150.268	1.830					Sandstone - as above, but silty and some carbon. laminae			1.830	
49°	150.268	151.06	0.792					Siltstone - med. grey, massive, regular bedded			0.792	
							497 / 151.486					
	151.06	151.34	0.280					As above			0.280	
								- - BOX 33 - -				
37°	151.34	152.345	1.005					Silty Claystone - carbonaceous with laminae of coal			1.005	

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DENISON DATA LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7613 SHEET No: 23

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m. Rec.	RECOVERY %
	152.345	152.709	0.364					Siltstone - dk. grey, carbonaceous specks, sandy band at base			0.364	
	152.709	153.734	1.025					Silty Claystone - coaly laminae, very carbon. core highly broken			1.025	
							507 154.534					
34°	153.734	154.776	1.042					As above, core broken at base			1.042	
	154.776	155.320	0.544	0.451				Core loss (Claystone)				
	155.320	155.465	0.145	0.120				Coal - bright, d. l.l. bands, pulverized			0.145	
							513 156.363					
	155.465	155.663	0.198	0.164				Coal - d. l.l. friable			0.198	
	155.663	156.280	0.617	0.512				Coal Loss				
	156.280	156.514	0.234	0.194				Claystone - carbonaceous, some coaly inclusions core broken			0.234	
								- - BOX 34 - -				
	156.514	157.939	1.425					Siltstone - med. grey, some sandy bands occasionally and few veins of $CaCo_3$			1.425	
							517 157.582					
	157.939	158.132	0.193					Sandstone - light grey, med. grained with carbon. laminae			0.193	
	158.132	159.392	1.260					Siltstone - med. grey, with some sandy bands and $CaCo_3$			1.260	

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DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7613 SHEET No: 24

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A	UNIT From	UNIT To	UNIT THICKNESS Thick.	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY nil	RECOVERY m.	RECOVERY m. Rec	RECOVERY %
63° joint	159.392	160.564	1.172					Sandstone - light grey, med. grained massive			1.172	
							527 160.630					
	160.564	160.710	0.146					As above			0.146	
								- - BOX 35 - -				
	160.710	161.292	0.582					As above			0.582	
	161.292	162.728	1.436					Core loss				
	162.728	162.898	0.170					Claystone - carbonaceous and coaly inclusions, core highly broken, pulverized at base			0.170	
	162.898	163.678	0.780					Silty claystone - med. grey, laminae and specks of carbon. plants			0.780	
							537 163.678					
28°	163.678	165.105	1.427					Siltstone - Carbonaceous with laminae of claystone at top			1.427	
	165.105	165.575	0.470					Silty Claystone - dark grey, some plant fossils, and $CaCo_3$			0.470	
	165.575	165.645	0.070					Coal - Bright, pulverized			0.070	
	165.645	165.966	0.321					Core loss				
32°	165.966	166.644	0.678					Claystone - very carbonaceous and coaly inclusions			0.678	
								- - BOX 36 - -				

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DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7613 SHEET No: 25

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A	UNIT From	UNIT To	UNIT THICKNESS Thick.	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m. Rec.	RECOVERY %
	166.644	166.726	0.082					As above			0.082	
							547 166.726					
	166.726	167.359	0.633					Sandstone - light grey, med. grained some $CaCo_3$			0.633	
	167.359	167.711	0.352					Claystone - carbon. and coaly laminae			0.352	
	167.711	167.794	0.083					Coal - dull-bright friable			0.083	
								PLEASE GO TO PAGE 26				

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: 7613 SHEET No: 26

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m	RECOVERY m Rec.	RECOVERY %
26	167.794	168.074	0.280					Claystone - dark to black, coaly laminae, slickensides			0.280	
	168.074	168.414	0.340					Sandstone - light grey, very fine grained, massive.			0.340	
	168.414	169.019	0.605					Silty Claystone - carbonaceous with coaly inclusions			0.605	
	169.019	169.701	0.682					Sandstone - light grey, fine grained as before			0.682	
							557 169.774					
	169.701	171.023	1.322					Silty Claystone - medium grey, slickensides, regular bedded good cores. Box 37			1.322	
	171.023	171.915	0.892					As above			0.892	
	171.915	172.678	0.763					Sandstone - light grey, fine grained, silty laminae occasionaly			0.763	
							567 172.822					
	172.678	173.032	0.354					As above			0.354	
44	173.032	173.899	0.579					CORE LOSS				
	173.899	174.641	0.742					Silty Claystone - carbonaceous and some $CaCO_3$			0.742	
	174.641	175.095	0.454					Claystone - very carbonaceous and coaly inclusions, pulverized at base			0.454	
								CORE LOSS				
							574 174.945					

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DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: _____ SHEET No: 27

DATE BEGUN: _____ DEPTH: _____ BEARING: _____ U.T.M.: _____

DATE FINISHED: _____ ELEV. COLLAR: _____ TOTAL DEPTH: _____ COAL LICENSE: _____

LAT.: _____ HOLE ANGLE: _____ LOGGED BY: _____ CORE SIZE: _____

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY int.	RECOVERY m.	RECOVERY m. Rec.	RECOVERY %
57	175095	175888	0.793					Siltstone - medium grey with $CaCO_3$ veins at top and few coaly stringers at base			0.793	
								Box 38				
	175888	177253	1.365					As above			1.365	
							582					
						177.394						
	177253	178326	1.073					As above			1.073	
	178326	179096	0.770					Silty Claystone - medium to light grey, many carbonaceous plants, veins of $CaCO_3$			0.770	
49	179096	179374	0.278					Claystone - very carbonaceous and coaly laminae, core highly broken			0.278	
							590					
						179.832						
	179374	180096	0.722					Siltstone - light grey with veins of $CaCO_3$			0.722	
								Box 39				
	180096	181.226	1.170					As above			1.170	
							597					
						181.966						
	181.226	182286	1.020					Sandstone - light grey, very fine grained occasional silty laminae and $CaCO_3$			1.020	
	182286	183373	1.087					Siltstone - light grey, sandy bands and vein of $CaCO_3$			1.087	
23	183373	183817	0.444					Claystone - carbonaceous, coaly laminae and small bands, core highly broken			0.444	
	183817	184298	0.481					Siltstone - light grey, massive, some $CaCO_3$			0.481	
								BOX 40				

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DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: 7613 SHEET No: 28

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m. Rec.	RECOVERY %
	184.298	184.703	0.405					As above			0.405	
33	184.703	187.096	2.393					Silty claystone - medium grey with some carbonaceous specks, some $CaCO_3$ at base, good massive cores			2.393	
							617 188.062					
	187.096	187.440	0.344					Claystone - very carbonaceous, core highly broken			0.344	
37	187.440	187.583	0.143	0.114				Claystone loss				
37	187.583	187.783	0.200	0.160				Coal - bright - dull, friable			0.200	
37	187.783	187.998	0.265	0.215				Coal - bright with dull stringers			0.265	
37	187.998	188.223	0.225	0.180				Coal - dull - bright, pulverised			0.225	
37	188.223	188.382	0.157	0.125				Coal - bright, sheared			0.157	
	188.382	188.44	0.058	0.046				Coal loss				
							620 188.976					
	188.44	188.662	0.222					Claystone - carbonaceous coaly laminae at base, core broken			0.222	
								Box 41				
	188.662	188.754	0.95					as above, core highly broken			0.950	
	188.754	189.371	0.617					Siltstone - with bands of sandstone and vein of $CaCO_3$ massive			0.617	

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7613 SHEET No: 29

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A	UNIT From	UNIT To	UNIT THICKNESS Thick.	UNIT THICKNESS True	COAL SHEET	DESC LOG	MARKER	DESCRIPTION	RECOVERY nil	RECOVERY m	RECOVERY m Rec	RECOVERY %
	189.371	170.106	0.735					Sandstone - very fine grained with silty laminae and $CaCo_3$			0.735	
							625.6 / 190.683					
42°	190.106	190.878	0.772					As above			0.772	
	190.878	191.261	0.383					Claystone - dark with occassinal coaly laminae, silty at base			0.383	
	191.261	192.906	1.645					Siltstone - med. to light grey, regular bedded, massive			1.645	
								- - BOX 42 - -				
44°	192.906	193.111	0.205					As above			0.205	
							636 / 193.853					
	193.111	193.544	0.433					Siltstone - with frequent veins of $CaCo_3$, weathered and core highly broken at base			0.433	
	193.544	194.767	1.223					Core loss				
							639 / 194.767					
36°	194.767	195.631	0.864					Siltstone - with some carbon. specks massive			0.864	
							642 / 195.682					
	195.631	196.951	1.320					As above			1.320	
							647 / 197.206					
	196.951	197.928	0.977					As above			0.977	
								- - BOX 43 - -				

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DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7613 SHEET No: 30

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A	UNIT From	UNIT To	THICKNESS Thick.	THICKNESS True	COAL SHEET	DESC LOG	MARKER	DESCRIPTION	RECOVERY nt	RECOVERY m.	RECOVERY m.R.r.	RECOVERY %
37°	197.938	198.468	0.540					Sandstone - light grey, med. grained with silty laminae			0.540	
							652 / 198.730					
	198.468	198.98	0.512					As above			0.512	
	198.98	199.930	0.950					Siltstone - light grey, with sandy bands irregular bedded, some $CaCo_3$			0.950	
							657 / 200.254					
	199.930	201.456	1.526					As above			1.526	
							662 / 201.778					
35°	201.456	202.239	0.783					As above			0.783	
								- - BOX 44 - -				
	202.239	202.993	0.754					As above			0.754	
							667 / 203.302					
	202.993	204.558	1.565					Sandstone - very fine grained, silty laminae and bands, $CaCo_3$ in veins, good cores			1.565	
							672 / 204.826					
	204.558	206.113	1.555					As above			1.555	
							677 / 206.350					
68°	206.113	206.390	0.277					As above			0.277	
								- - BOX 45 - -				
	206.390	207.690	1.300					As above, more massive at base			1.300	
							682 / 207.874					

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DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7613 SHEET No: 31

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A	UNIT From	UNIT To	UNIT THICKNESS Thick.	UNIT THICKNESS True	COAL SHEET	DESC LOG	MARKER	DESCRIPTION	RECOVERY nt	RECOVERY m	RECOVERY m.Rec	RECOVERY %
	207.690	209.135	1.445					Sandstone - light grey, med. to coarse grained with $CaCo_3$ veins, core highly broken at base			1.445	
							687 / 209.348					
36°	209.135	210.675	1.540					As above, with coaly laminae at base			1.540	
								- - BOX 46 - -				
							692 / 210.922					
60°	210.675	212.305	1.630					Sandstone - light grey, med. grained carbonaceous and coaly laminae broken core			1.630	
45°	212.305	213.020	0.715					Siltstone - very carbonaceous, slickensides, $CaCo_3$, broken core - sheared zone, possible beginning of fault			0.715	
	213.020	213.360	0.340					Core loss				
							700 / 213.360					
72°	213.360	214.37	1.010					As above			1.010	
	214.37	215.275	0.905					Claystone - black, carbonaceous, full of coaly inclusions, slickensides, sheared core highly broken, pulverized			0.905	
								- - BOX 47 - -				
	215.275	215.63	0.355					As above			0.355	
	215.63	216.033	0.403					Sandstone - med. grained, carbonaceous, slickensides, some $CaCo_3$			0.403	
								Core Loss				

Form 71-0150-R02

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7613 SHEET No: 32

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A	UNIT From	UNIT To	UNIT THICKNESS Thick.	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY ft.	RECOVERY m.	RECOVERY m. Rec	RECOVERY %
							710					
							216.408					
	216.033	216.16	0.127					Coal - bright, sheared, pulverized			0.127	
	216.16	216.722	0.562					Core Loss				
60°	216.722	217.932	1.210					Claystone - black, carbon., coaly inclusions sheared, $CaCO_3$, highly broken			1.210	
							715					
							217.932					
	217.932	218.482	0.550					As above			0.550	
33°	218.482	219.787	1.305					Sandstone - fine to med. grained, occassionally laminae of claystone, carbonaceous sheared			1.305	
								- - BOX 48 - -				
	219.787	219.987	0.200					Claystone - black, carbonaceous, sheared, pulverized			0.200	
							722					
							220.066					
	219.987	220.86	0.873					As above, very sheared with coaly inclusions, mixed with bands of sandstone slickensides, pulverized			0.873	
	220.86	221.748	0.888					Sandstone - fine grained, silty laminae and claystone, very carbon., sheared highly broken			0.888	
	221.748	222.123	0.375					Claystone - as claystone above, sheared, pulverized, highly broken			0.375	
	222.123	223.008	0.885					Sandstone - as sandstone above			0.885	

Form 71-0150-R02

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7613 SHEET No: 33

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY nil	RECOVERY m	RECOVERY m Rec	RECOVERY %
							732					
							223.174					
	223.008	223.318	0.310					As above, end of sheared zone			0.310	
	223.318	224.026	0.708					Sandstone - fine grained, massive, some specks of $CaCo_3$ at top			0.708	
								- - BOX 49 - -				
	224.026	225.528	1.502					As above			1.502	
43°	225.528	225.961	0.433					Siltstone - light grey with small sandy bands			0.433	
							742					
							226.162					
	225.961	226.305	0.344					As above			0.344	
	226.305	226.447	0.142					Sandstone - light grey, med. grained with silty and $CaCo_3$ laminae			0.142	
	226.447	226.754	0.307					Siltstone - med. grey with few carbon. inclusions, slickenside			0.307	
27°	226.754	227.466	0.712					Sandstone - light grey, med. grained core broken, some $CaCo_3$			0.712	
							747					
							227.686					
	227.466	228.291	0.825					As above, with silty bands and minor $CaCo_3$ at top			0.825	
								- - BOX 50 - -				
	228.291	228.379	0.088					As above			0.088	

Form 71-0150-R02

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7613 SHEET No: 34

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A	UNIT From	UNIT To	UNIT THICKNESS Thick.	UNIT THICKNESS True	COAL SHEET	DESC LOG	MARKER	DESCRIPTION	RECOVERY nt	RECOVERY m.	RECOVERY m.Rec	RECOVERY %
	228.379	228.523	0.144					Siltstone - dark grey - band between sandstone regular bedded			0.144	
	228.523	228.628	0.105					Sandstone - light grey, med. grained with carbon. laminae			0.105	
							752 / 229.210					
	228.628	228.698	0.070					As above			0.070	
	228.698	228.937	0.239					Silty Claystone - some carbon. inclusions sheared			0.239	
	228.937	229.544	0.607					Core loss				
52°	229.544	230.734	1.190					Sandstone - light grey, fine to med. grained few veins of $CaCo_3$, regular bedded massive			1.190	
							757 / 230.734					
	230.734	231.616	0.882					As above			0.882	
	231.616	232.151	0.535					Siltstone - med. grey, $CaCo_3$ in veins and specks, massive			0.535	
							762 / 232.258					
	232.151	232.603	0.452					As above			0.452	
50°	232.603	232.948	0.345					Sandstone - light grey, very fine grained, massive			0.345	

Form 71-0150-R02

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7613 SHEET No: 35

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A	UNIT From	UNIT To	UNIT THICKNESS Thick.	UNIT THICKNESS True	COAL SHEET	DESC LOG	MARKER	DESCRIPTION	RECOVERY nt.	RECOVERY m.	RECOVERY m. Rec	RECOVERY %
								- - Box 51 - -				
	232.948	233.618	0.670					As above			0.670	
							767 / 233.782					
	233.618	234.174	0.556					Siltstone - light grey, sandy, $CaCo_3$ inclusions and specks			0.556	
37°	234.174	234.314	0.140					Sandstone - very fine grained with silty laminae			0.140	
	234.314	234.856	0.542					Siltstone - dark to med. grey, carbon. inclusions, massive, regular bedded			0.542	
	234.856	235.026	0.170					Sandstone - very fine grained, massive			0.170	
							772 / 235.306					
	235.026	236.474	1.448					Siltstone - med. grey, regular bedded with $CaCo_3$ specks, massive			1.448	

Form ZL-0150-B03

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD 7613 SHEET No: 36

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick.	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m. Rec.	RECOVERY %
							777' 236.830					
28°	236.474	237.032	0.558					Sandstone - light gray, fine to med. grained with $CaCO_3$, massive - - BOX 52 - -			0.558	
	237.032	237.797	0.765					Sandstone - as above, med. grained			0.765	
							782' 238.354					
	237.797	239.03	1.233					as above			1.233	
57°	239.03	239.24	0.210					Siltstone - light to med. grained with many laminate and veins of $CaCo_3$			0.210	
							787' 239.878					
	239.24	240.714	1.474					As above, but more sandy and less $CaCo_3$ toward base.			1.474	
	240.714	241.402	0.688					Core Loss				
							792' 241.402					
55°	241.402	241.817	0.415					Sandstone - Med. grained with carbonaceous laminae, regular bedded - - BOX 53 - -			0.415	
	241.817	242.411	0.594					As above			0.594	
							797' 242.926					
	242.411	243.983	1.572					Sandstone - Light gray, med. to coarse grained, massive.			1.572	
							802' 244.450					

Form 71-0150-B07

DENESON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD 7613 SHEET No: 37

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m. Rec.	RECOVERY %
	243.983	244.688	0.705					As above			0.705	
	244.688	245.338	0.650					Sandstone - Med. grained, very carbon and coaly, inclusions. Broken core. More coaly laminae at base.			0.650	
							807 245.974					
44°	245.338	246.032	0.694					Sandstone - Med. to coarse grained, less carbonaceous toward base.			0.694	
								--- BOX 54 ---				
	246.032	246.497	0.465					As above, carbonaceous and coaly laminae; broken core			0.465	
	246.497	247.498	1.001					Core Loss				
							812 247.498					
	247.498	249.073	1.575					Sandstone - Light gray, medium grained, massive			1.575	
							817 249.022					
	249.073	249.223	0.150					As above			0.150	
	249.233	249.715	0.492					As above, but carbonaceous and coaly laminae. Broken core.			0.492	
	249.715	249.955	0.240					Light gray, massive as before			0.240	
68°	249.955	250.329	0.374					Carbonaceous as before, broken core.			0.374	
	250.329	250.579	0.250					Massive as before			0.250	

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD 7613 SHEET No: 38

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick.	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int	RECOVERY m.	RECOVERY m.Rec.	RECOVERY %
							822' 250.546					
	250.579	250.814	0.235					As above			0.235	
82°	250.814	251.321	0.507					Sandstone - Light gray, med. grained, carbonaceous with regular coaly laminae interbedded.			0.507	
								- - BOX 55 - -				
62°	251.321	252.068	0.747					Med. to coarse grained with carbonaceous laminae occasionally			0.747	
							827' 252.070					
	252.068	252.698	0.630					As above			0.630	
							829' 252.679					
	252.698	254.13	1.432					As above			1.432	
							834' 254.203					
54°	254.13	255.415	1.285					Sandstone - Light gray, med. to coarse grained, massive.			1.285	
	255.415	255.575	0.160					As above with some carbon laminae			0.160	
								- - BOX 56 - -				
							839' 255.727					
	255.575	256.532	0.957					Sandstone - Light gray, coarse grained, massive, some veins of $CaCO_3$.			0.957	
	256.532	256.632	0.100					Claystone - Dark gray, carbonaceous. Pulverized. Highly broken core.			0.100	

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD 7613 SHEET No: 39

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick.	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m.Rec.	RECOVERY %
71°	256.632	257.086	0.454					Sandstone - Med. grained with carbon laminae and $CaCo_3$			0.454	
							844' 257.251					
	257.086	258.101	1.015					As above			1.015	
	258.101	258.545	0.444					As above, but sheared and core highly broken.			0.444	
							849' 258.775					
	258.545	259.387	0.842					Sandstone - Med. grained, light gray with carbon laminae and many veins and stringers of $CaCo_3$.			0.842	
43°	259.387	259.847	0.460					Siltstone - carbonaceous, $CaCo_3$ in stringers and specks.			0.460	
								- - BOX 57 - -				
							854' 260.299					
	259.847	261.392	1.545					As above			1.545	
							859' 261.823					
47°	261.392	262.955	1.563					Sandstone - fine to med. grained, regular bedded, some $CaCo_3$.			1.563	
							864' 263.347					
	262.955	263.49	0.535					As above			0.535	

DENESON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD 7613 SHEET No: 40

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick.	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m. Rec.	RECOVERY %
	263.49	264.194	0.704					Sandstone - Med. to coarse grained, light gray carbon. Laminae, massive.			0.704	
								--- BOX 58 ---				
	264.194	264.384	0.190					As above			0.190	
							869' 264.871					
	264.384	265.318	0.934					As above			0.934	
							872' 265.736					
	265.318	265.605	0.287					As above			0.287	
38°	265.605	266.265	0.660					Siltstone - Med. gray, carbonaceous, strings of $CaCo_3$			0.660	
	266.265	266.648	0.383					As above, but very carbonaceous and core highly broken.			0.383	
	266.648	267.636	0.988					Siltstone - Med. gray, more carbonaceous towards top, sandy beds toward base. Some $CaCo_3$.			0.988	
	267.636	268.421	0.785					Sandstone - Light gray, med. to coarse grained, massive.			0.785	
								--- BOX 59 ---				
							882' 268.884					
62°	268.421	269.917	1.496					Siltstone - Sandy bands at top, carbon laminae and broken core at base.			1.496	

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD 7613 SHEET No: 41

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m. Rec.	RECOVERY %
							887' 270.358					
	269.917	270.227	0.310					As above			0.310	
57°	270.227	271.789	1.562					Sandstone - Light gray, fine grained, massive			1.562	
							892' 271.882					
	271.789	272.754	0.965					Sandstone - Light gray, med. to coarse grained, veins of $CaCo_3$			0.965	
								- - BOX 60 - -				
	272.754	273.344	0.590					As above			0.590	
							897' 273.406					
	273.344	273.669	0.325					As above			0.325	
48°	273.669	274.812	1.143					Siltstone - Light to med. gray, carbon laminae occasionally, sandy massive.			1.143	
							902' 274.930					

Form 71-0150-R02

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7613 SHEET No: 42

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A	UNIT From	UNIT To	UNIT THICKNESS Thick.	UNIT THICKNESS True	COAL SHEET	DESC LOG	MARKER	DESCRIPTION	RECOVERY nt	RECOVERY m	RECOVERY m Rec	RECOVERY %
	274.812	276.357	1.545					Sandstone - very fine grained, silty massive			1.545	
							907 / 276.454					
	276.357	276.535	0.178					As above			0.178	
	276.535	276.86	0.325					Siltstone - med. grey, massive			0.325	
								- - BOX 61 - -				
33°	276.86	277.165	0.305					Claystone - very carbonaceous and sheared coaly inclusions at base			0.305	
	277.165	277.859	0.694					Sandstone - very fine grained, massive with few $CaCO_3$ veins			0.694	
							912 / 277.978					
	277.859	279.374	1.515					As above			1.515	
							917 / 279.502					
47°	279.374	279.574	0.200					Sandstone - fine grained interbedded with small silty bands			0.200	
49°	279.574	280.894	1.325					Sandstone - light grey, fine grained and become med. grained toward base massive			1.325	
	280.894	281.026	0.132					Core Loss				
							922 / 281.026	- - BOX 62 - -				
								Ivan Delas Oct. 10/76				

Form 71-0150-R02

PR. SAXON 76(3) A-2

SAXON COAL LTD.

APP XL op. Denison Mines Ltd.

D.H. 7614-7616

CONFIDENTIAL

OPEN FILE

GEOLOGICAL BRANCH
ASSESSMENT REPORT

00 627

PROJECT SAXON

HOLE NO. SD-7614 BEARING 220° ANGLE 60°

COLLAR ELEVATION _____ TOTAL DEPTH 220.066m

CONFIDENTIAL

Seam No. 5 ? Structure Contour Elevation _____

Coal Interval 16.40-18.00 28° Dip (Geophysical Log Pick)

Coal Thickness 1.412m Isopach not minerable - 1.41
total rock 0

Core Data:

A. Coal Present 0.679 Rock Present -

Coal Absent 0.733 Rock Absent -

Total Coal 1.412 Total Rock -

Grand Total 1.412m

B. Rock/Coal -

C. % Core Recovery 48.08

Seam No. Stringer Structure Contour Elevation _____

Coal Interval 30.051-31.010 38° Dip (Geophysical Log Pick)

Coal Thickness 0.756 Isopach _____

Core Data:

A. Coal Present 0.406 Rock Present -

Coal Absent 0.350 Rock Absent -

Total Coal 0.756 Total Rock -

Grand Total 0.756m

B. Rock/Coal -

C. % Core Recovery 53.70

Seam No. 4 Structure Contour Elevation _____

Coal Interval 71.770-80.840 46° Dip (Geophysical Log Pick)

Coal Thickness _____ Isopach 6.30 Total mineable
.26 total rock

Core Data:

A. Coal Present 5.016 Rock Present 0.632

Coal Absent 1.278 Rock Absent 0.208

Total Coal 6.294 Total Rock 0.840

Grand Total 7.134m

B. Rock/Coal .133

C. % Core Recovery 79.17

Coal Interval 97.57-99.24 38° Dip (Geophysical Log Pick)

Coal Thickness _____ Isopach _____

Core Data:

A. Coal Present 0.455 Rock Present 0.095

Coal Absent 0.719 Rock Absent 0.047

Total Coal 1.174 Total Rock 0.142

Grand Total 1.316m

B. Rock/Coal .121

C. % Core Recovery 41.79

Seam No. 3 Structure Contour Elevation _____

Coal Interval 147.680-150.658 38° Dip (Geophysical Log Pick) B.R. Density Detail

Coal Thickness _____ Isopach 2.34 total mineable
.34 total

Core Data:

A. Coal Present 1.829 Rock Present 0.237

Coal Absent 0.174 Rock Absent 0.102

Total Coal 2.003 Total Rock 0.339

Grand Total 2.342m

B. Rock/Coal .169

C. % Core Recovery 88.22

Seam No. 2 Structure Contour Elevation _____

Coal Interval 180.540-184.880 28° Dip (Geophysical Log Pick)

Coal Thickness .672/.123/3.035 Isopach 3.83 total minerable
.12 total rock

Core Data:

A. Coal Present 1.491 Rock Present -

Coal Absent 2.216 Rock Absent 0.123

Total Coal 3.707 Total Rock 0.123

Grand Total 3.830m

B. Rock/Coal .033

C. % Core Recovery 38.93

Seam No. 1 Structure Contour Elevation _____

Coal Interval 196.85-205.52 34°-42°-39° Dip (Geophysical Log Pick)

Coal Thickness _____ Isopach 3.12 Total minerable
.58 total rock

Core Data:

A. Coal Present .556 1.061 Rock Present .216 2.527 .578

Coal Absent .274 1.479 Rock Absent - - -

Total Coal 0.830[A] 2.540[B] Total Rock .216[A] .578[B]

Grand Total 1.046[A] 3.118[B]

B. Rock/Coal A - .260 B - .228

C. % Core Recovery A - 73.80 B - 52.57

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

461510

HOLE No: SD-7614 SHEET No: 1

DATE BEGUN: DEPTH: BEARING: 220° UTM:
DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: 722 COAL LICENSE:
LAT.: HOLE ANGLE: 60° LOGGED BY: T. Watchuk CORE SIZE: HQ

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick.	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m. Rec.	RECOVERY %
45° 0.3m from top	6.770	7.311	* .541				6.770	Sandstone - f.g., dark carb. laminae, - minor carb. fragments			0.640	
		7.421	.110					Siltstone - carbonaceous, dark			0.130	
		7.489	.068					Mudstone - carb fragments			0.080	
							25 7.620					
		7.654	.165					Mudstone - carb			0.195	
		7.734	.080					Coal - shaley, broken, dull & bright			0.095	
		7.912	.178					Mudstone - carb, minor coal fragments disseminated			0.210	
		7.963	.051					Mudstone - as above, silty at base			0.060	
43° at top		8.838	.875					Siltstone - med grained, generally homogeneous, med grey - mudstone interbeds			1.035	
							30 9.144					
		9.362	.262					Siltstone - as above, minor calcite			0.310	
							32 9.754					
45° at top		9.409	.047					Sandstone - med grained, minor carb			0.056	
		10.073	.664					Siltstone - dark grey, rel. homog. minor carb fragments, minor calcite fracture filling JCA = 38° - TOP BOX 2			0.845	

Form 71-0150-R02

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7614 SHEET No: 2

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m.Rec.	RECOVERY %
	10.073	10.293	.220					Mudstone - silty, dark			0.260	
							35 / 10.668					
		11.346	1.053					Mudstone - as above, silty, dark - homog., occ. carb frgm. broken & slicken sided near base			1.245	
		11.485	.139					Mudstone - as above			0.165	
							40 / 12.192					
		12.315	.880					Mudstone - coal stringers, carb. listric, surfaces			1.040	
							42 / 12.802					
		13.288	.973					Mudstone - carb. leaf impressions - coal stringer & frgm., silty near base			1.150	
							47 / 14.326					
30° at top		13.504	.216					Siltstone - dark banded, coal films on fracture surfaces			0.255	
								- - TOP BOX 3 - -				
20° at top		14.650	1.146					Sandstone - fine grained, dark banded - occ. carbonaceous bands			1.474	
							51 / 15.545					
		15.454	.804					Siltstone - sandy at top, muddy at base, dark grey, homog.			0.950	

Form 71-0150-R02

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7614 SHEET No: 3

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m.Rec.	RECOVERY %
		15.932	.478					Mudstone - highly carb., black, coal stringers			0.565	
		16.118	.186					Mudstone - as above, calcite filled slickenside near base TCA = 90°			0.220	
							58 17.678					
		16.400	.282	.249				Mudstone - as above			0.405	
28°	16.400	16.500	.100	.088				Coal - very high ash - muddy, extremely broken			0.100	
		16.780	.230	.203				Missing coal				
		16.925	.195	.172				- d.ll, some calcite			0.195	
		17.135	.210	.185				- d.ll & bright			0.210	
		17.265	.130	.115				- d.ll, pulverized			0.130	
		17.565	.300	.265				Missing - coal				
							61.5 18.745					
								- - TOP BOX 4 - -				
		17.700	.135	.119				Coal - shaley, pulverized			0.135	
		18.000	.300	.265				Missing - coal				
		18.640	.640	.565				Mudstone - very carbonaceous coal stringers & fragments			0.640	
		19.355	.715					Siltstone - dank, carbonaceous			0.715	

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DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7614 SHEET No: 4

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m	RECOVERY m.Rec.	RECOVERY %
		19.470	.115					Siltstone - dark, carbonaceous			0.115	
45° at top		19.710	.240					Sandstone - f.g. bedded, minor calcareous bedding fracture filling			0.240	
							67 20.423					
		20.040	.330					Sandstone - fine grained, dark grey			0.330	
		20.185	.145					Siltstone - mudstone interbedded			0.145	
		20.770	.585					Mudstone - silty, coal stringers, generally homog.			0.585	
		21.080	.310					Mudstone - carb., black			0.310	
		21.310	.230					Siltstone - mudstone interbedded			0.236	
43° at top							72 21.946					
		22.215	.905					Siltstone - minor sandstone & mudstone interbeds, locally carb.			.905	
								- - TOP OF BOX 5 - -				
		23.005	.790					Mudstone - carb, dark, occ. coal stringers			0.790	
							77 23.470					
		23.100	.095					Mudstone - as above			0.095	

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DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7614 SHEET No: 5

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int	RECOVERY m	RECOVERY m.Rec.	RECOVERY %
35° near top		23.715	.615					Siltstone - muddy, banded, carbonaceous			0.615	
		23.975	.260					Siltstone - as above			0.260	
		24.245	.270					Mudstone - slightly carb.			0.270	
							81.5 / 24.841					
		24.375	.130					Mudstone - as above			0.130	
37° at top	24.375	25.050						Siltstone - broken at top - dark banded, slightly carb.			0.675	
		25.778						Siltstone - as above			0.728	
							87 / 26.518					
38° at top		26.423						Siltstone - as above			0.645	
								- - TOP OF BOX 6 - -				
		26.808						Siltstone - banded, muddy, coal stringer near base			0.385	
		27.138						Mudstone - carb., coal stringers, calcite fracture filling // to bedding			0.330	
		27.318						Sandstone - med. grained, light grey			0.180	
							92 / 28.042					
45° 0.1 m from top		27.866						Sandstone - thin coal stringers at top, slightly carb.; carb films on bedding surfaces			0.548	

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DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7614 SHEET No: 6

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m.Rec.	RECOVERY %
		28.376						Sandstone - thin coal stringers at top, slightly carb., carb films on bedding surfaces			0.510	
		28.911						Mudstone - homog., slightly carb.			0.535	
							97 / 29.560					
	28.911	29.271						Mudstone - as above			0.360	
38° 0.2m from top	29.271	29.931	.660					Mudstone - slightly silty, increasingly carb. towards base			0.670	
							102 / 31.090					
	29.931	30.051	.120	.095				Mudstone - as above			0.120	
38°	30.051		.075	.059				Coal - bony, high ash, dull - broken			0.075	
			.145	.114				Missing - coal				
			.100	.079				Coal - dull & Banded			0.100	
			.125	.099				Coal - dull			0.125	
			.050	.039				Coal - dull & bright			0.050	
			.165	.130				Coal - dull, metallic lustre			0.165	
		30.010	.300	.236				Missing - coal				
* *	31.010		.160	.126				Mudstone - Carbonaceous, coaly high ash			0.160	
								- - TOP OF BOX 7 - -				

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DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7614 SHEET No: 7

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m.Rec.	RECOVERY %
								Mudstone - highly carb., coal stringers			0.470	
							107 32.614					
		31.730	.720					Mudstone - as above			0.110	
35° at top	31.730							Sandstone - v. f.g., dark banded - silty, minor calcite fracture filling			0.845	
		32.800	1.070					Sandstone - silty, as above			0.250	
48° at top	32.800	32.990	.190					Siltstone - banded, carb films on bedding surfaces			0.200	
	32.990	33.080	.090					Mudstone - broken, carb			0.095	
							112 34.138					
	33.080	33.240	.160					Siltstone - muddy, dark banded			0.170	
	33.240							Sandstone - med. grey, fine grained - calcite fracture filling DOA = 45°			0.620	
40° at .4m from top		33.970	.730					Sandstone - as above			0.125	
	33.970	34.210	.240					Siltstone - dark grey, muddy			0.245	
	34.210							Mudstone - carb, coal stringers			0.463	
							117 35.662					

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DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7614 SHEET No: 8

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m	RECOVERY m.Rec.	RECOVERY %
		35.300	1.090					Mudstone - as above, minor carb. debris			0.653	
								- - TOP OF BOX 8 - -				
	35.300	35.710	.410					Siltstone - carb., rel. homog.			0.420	
	35.710							Sandstone - dark grey, fine grained, dark banded, silty, carb. films			0.505	
							122 / 37.180					
								Sandstone - as above			0.505	
25° at top		37.560	1.850					Sandstone - as above, calcite fracture fillings JCA 0.4m from top = 60°			0.890	
	37.560	37.710	.150					Siltstone - dark grey, carb.			0.158	
							127 / 38.710					
	37.710							Mudstone - carb. frgm., rel. homog.			0.410	
								Mudstone - as above, minor coal stringers			0.560	
							131 / 39.929					
		38.920	1.210					Mudstone - as above			0.270	
41° Near Base	38.920							Siltstone - muddy-dark-banded, carb. films			0.560	
								- - TOP OF BOX 9 - -				

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DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7614 SHEET No: 9

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m. Rec.	RECOVERY %
		39.730	.810					Siltstone - as above			0.270	
	39.730							Sandstone - fine grained to med grained - dark banded, calcite fracture filling JCA = 45° @ .2m from top, carb. bedding films			0.600	
							.136 41.453					
38° at top								Sandstone - as above			0.500	
								Sandstone - as above, calcite fracture filling JCA 48° @ top			1.080	
							.140 42.672					
								Sandstone - as above, fine grained			0.360	
30° 1m from top								Sandstone - as above, JCA @ base 15° cross bedding near base beds upright			1.295	
							145.5 44.348	- - TOP OF BOX 10 - -				
35° at bottom								Sandstone - as above, fine grained - carb debris along bedding			1.500	
							.151 46.025					
								Sandstone - as above			.418	
33°		46.460	6.720					Sandstone - as above			0.135	

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DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7614 SHEET No: 10

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m	RECOVERY m.Rec.	RECOVERY %
							156 / 47.549					
	46.450	47.670	1.220					Siltstone - silty, dark laminations, slightly carbonaceous			1.251	
								- - TOP OF BOX 11 - -				
29° at top	47.670							Sandstone - v.f.g. - med. grained bedded, silty layers			0.370	
							161 / 49.073					
								Sandstone - as above			0.962	
								Sandstone - fine grained, evenly bedded, minor carb. debris			0.705	
							166 / 50.597					
								Sandstone - as above, JCA 50° @ 0.2 m from top, minor calcite fracture filling - carb. debris & minor disseminated pyrite			0.668	
								Sandstone - as above, fine-grained			0.730	
							171 / 52.121					
40° at base								Sandstone - fine grained, as above JCA at top = 60°			0.678	
								- - TOP OF BOX 12 - -				

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DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7614 SHEET No: 11

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m. Rec.	RECOVERY %
51°								Sandstone - v.f.g. to med. gr., rel. homog. carb. films on bedding surfaces			0.976	
							176 53.645					
								Sandstone - as above			0.475	
30° at base								Sandstone - as above, rel. little carb. debris, rel. homog.			.145	
							181 55.169					
								Sandstone - as above, minor carb. debris, fine grained			0.293	
53° 0.3m from base								Sandstone - as above, more carb. debris towards base, pyrite occ. w/carb. frgm., convoluted bedding @ base			1.325	
							186 56.693					
								-- TOP OF BOX 13 --				
48° at base								Sandstone - as above, large coal stringer parallel to core axis at top which crosses bedding v.f.g.			1.305	
							191 58.217					
								Sandstone - as above, f.g. med. grained			1.522	
								Sandstone - as above			0.088	
							196 59.741					

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DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7614 SHEET No: 12

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m.Rec	RECOVERY %
18° at top								Sandstone - as above, cross bedded - convoluted slightly 0.5 m from top JCA - calcite fracture filled 0.1m from base			1.275	
								- - TOP OF BOX 14 - -				
								Sandstone - f.g., minor carb. debris			0.328	
							201.5 61.417					
35° 0.3m from top		61.230	13.560					Sandstone - v.f.g., finely bedded silty, minor carb. debris			1.050	
	61.230	61.810	.580					Siltstone - finely bedded			0.590	
31° at top	61.810							Sandstone - v.f.g.			0.035	
							206.5 62.941					
								Sandstone - v.f.g., finely bedded			0.810	
								Sandstone - as above			0.792	
							212 64.618					
								Sandstone - v.f.g., dark, finely bedded			0.650	
								- - TOP OF BOX 15 - -				
25° at top								Sandstone - v.f.g., finely bedded			0.965	

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DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7614 SHEET No: 13

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int	RECOVERY m	RECOVERY m Rec	RECOVERY %
							217 / 66.142					
								Sandstone - as above, occ. carb. fragments			0.505	
37° 0.5 m from top								Sandstone - as above, coal stringer @ 0.5m from top			0.968	
							222 / 67.666					
								Sandstone - as above			0.465	
		67.980	6.170					Sandstone - v.f.g.			1.135	
							227 / 69.190					
	67.980							Siltstone - carb., dark grey			0.220	
								- - TOP OF BOX 16 - -				
40° 0.3m from top								Siltstone - sandy, finely bedded carbonaceous			1.230	
							232 / 70.714					
								Siltstone - carbonaceous, muddy			0.160	
								Siltstone - as above, sandy towards base			1.470	
							237 / 72.238					
		71.310	3.330					Siltstone - coal fragments, carb. minor coal stringers			0.300	

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DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7614 SHEET No: 14

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m	RECOVERY m.Rec.	RECOVERY %
	71.310	71.770	.460					Mudstone - carb., fossil leaf impressions			0.470	
	71.770	71.830	.060	.042				Coal - d ll, high ash			0.060	
46°							241.5 / 73.457					
		71.990	.160	.111	4 1 1			Coal - broken, d ll			0.160	
		72.530	.540	.375				Coal - missing				
		72.600	.070	.049				Coal - d ll & bright			0.070	
		72.670	.070	.049				Coal - d ll			0.070	
		72.880	.210	.146				Mudstone - coaly			0.210	
		73.040	.160	.111				Missing - mudstone				
		73.215	.175	.122				Coal - highly broken, d ll & bright			0.175	
		73.310	.095	.066				Missing - coal				
								- - TOP OF BOX 17 - -				
		73.545	.235	.163				Coal - d ll banded, coal recovery "chunky" pieces - 0.1 m			0.235	
		73.665	.120	.083				Missing - coal				
		73.760	.095	.066				Coal - d ll & bright			0.095	
		73.821	.061	.042	4 1 1			Coal - d ll			0.061	
		74.111	.290	.201				Coal - d ll banded			0.290	
46°							246.5 / 75.183					

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DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7614 SHEET No: 15

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m	RECOVERY m.Rec.	RECOVERY %
		74.391	.280	.195				Coal - d 1.1, broken, high ash			0.280	
		74.531	.140	.097				Missing - coal				
		74.726	.195	.135				Coal - d 1.1 banded			0.195	
		74.851	.125	.087		4.1.1		Coal - d 1.1, metallic lustre			0.125	
		74.996	.145	.101				Coal - d 1.1 & bright			0.145	
		75.096	.100	.069				Coal - d 1.1			0.100	
		75.196	.100	.069				Coal - d 1.1			0.100	
		75.381	.185	.129				Coal - d 1.1 & bright			0.185	
		75.541	.160	.111				Coal - bright & d 1.1			0.160	
		75.686	.145	.101				Coal - d 1.1			0.145	
		76.051	.365	.254				Coal - d 1.1 banded			0.365	
							252 / 76.810					
		76.208	.157	.109				Coal - d 1.1 banded			0.157	
		76.302	.094	.065				Coal - d 1.1 & bright				
		76.372	.070	.049		4.1.1 & 4.1.2		Coal - bright banded			0.070	
		76.697	.325	.226				Coal - d 1.1, metallic lustre			0.325	
		76.792	.095	.066				Coal - bright			0.095	

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DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7614 SHEET No: 16

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m.Rec.	RECOVERY %
		76.992	.200	.139				Coal - d 1.1 & bright			0.200	
		77.122	.130	.090				Coal - bright banded			0.130	
		77.257	.135	.094	4	1.1		Coal - d 1.1 banded			0.135	
		77.337	.080	.056	4	& 1.2		Coal - d 1.1			0.080	
		77.547	.210	.146				Coal - broken, d 1.1			0.210	
		77.652	.105	.073				Missing - coal				
		77.790	.138	.096				Coal - d 1.1 & bright			0.138	
	77.790	77.890	.100	.069				Coal - bright banded			0.100	
							257 / 78.384					
	77.890	78.006	.116	.081				Coal - bright			0.116	
	78.006	78.071	.065	.045				Coal - bright banded			0.065	
	78.071	78.216	.145	.101				Coal - d 1.1			0.145	
								- - TOP OF BOX 18 - -				
		78.511	.295	.205	4	1.1 &		Coal - d 1.1 banded			0.295	
		78.643	.132	.092	4	1.2		Coal - d 1.1, pulverized			0.132	
		78.843	.200	.139								
		78.943	.100	.069				Coal - d 1.1			0.100	

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DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7614 SHEET No: 17

DATE BEGUN: DEPTH: BEARING: U.T.M.:
DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:
LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m.Rec.	RECOVERY %
		79.053	.110	.076				Coal - pulverized, driller's mud, high ash			0.110	
		79.243	.190	.132								
		79.433	.190	.132				Coal - bright banded			0.190	
							262 / 79.858					
		79.818	.385	.267	4	1.3 &		Coal - d.ll, metallic lustre			0.385	
		80.040	.222	.154	4	1.4		Coal - d.ll banded, broken			0.222	
		80.155	.115	.080								
		80.345	.190	.132				Coal - d.ll banded			0.190	
							267 / 81.382					
		80.590	.245	.170				Coal - d.ll & bright			0.245	
	80.590	80.680	.090	.063				Coal - pulverized, d.ll & bright			0.090	
	80.680	80.730	.050	.035	4	1.4		Missing - coal				
	80.730	80.840	.110	.076				Coal - d.ll & bright			0.110	
	80.840	81.540	.700	.486				Mudstone - very carbonaceous coal stringers			0.700	
	81.540	81.680	.140	.097				Missing - mudstone				
	81.680	81.755	.075	.052				Coal - d.ll & bright			0.075	
	81.755	82.040	.285	.198				Missing - coal				
	82.040							Mudstone - coaly			0.090	
						Loose marker	272 / 82.906					
								Mudstone - coaly, high ash, bone coal			0.315	

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DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No. SD-7614 SHEET No 18

DATE BEGUN: DEPTH: BEARING: U.T.M.

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m.Rec	RECOVERY %
								Mudstone - slightly carb., homog.			1.100	
								- - TOP OF BOX 19 - -				
								Mudstone - as above			0.060	
							277 84.430					
								Mudstone - slightly carb., gen. homog.			1.398	
								Mudstone - as above			0.089	
							282 85.954					
		85.030	2.990					Mudstone - as above, minor calcite fracture filling @ 0.52m from top			0.145	
52° at top	85.030							Siltstone - slightly carb., finely bedded, bedded, dark grey			1.178	
								Siltstone - as above			0.318	
							287 87.478					
43° 0.35m from top								Siltstone - coaly locally, carbonaceous banded, calcite stringers @ 0.7m from top, v.f.g. sandy lenses occ.			1.185	
								- - TOP OF BOX 20 - -				
								Siltstone - as above, thin calcite stringer UCA 50° @ top			0.270	

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DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No. SD-7614 SHEET No 19

DATE BEGUN: DEPTH: BEARING: U.T.M

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int	RECOVERY m.	RECOVERY m.Rec	RECOVERY %
							292 / 89.002					
								Siltstone - finely banded, occ. carb. debris			1.203	
								Siltstone - as above, coal fragments & occ. v.f.g. sandy lenses			0.430	
							297 / 90.526					
30° at base								Siltstone - as above, calcite veinlets @ 0.4m from top			1.025	
		90.810	5.780					Siltstone - as above, broken at top			0.615	
							302 / 92.050					
35° at top	90.810							Sandstone - v.f.g., finely banded, silty, relatively homogeneous calcite fracture filling 0.45m from top JCA = 35° calcite fracture fill perpen. to bedding JCA = 38° @ base			0.838	
								- - TOP OF BOX 21 - -				
		92.440	1.630					Sandstone - as above			0.850	
							307 / 93.574					
	92.440							Siltstone - sandy, rel. homog. finely bedded, little carb. debris			0.596	
								Siltstone - as above, muddy			0.818	

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DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7614 SHEET No: 20

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m.Rec.	RECOVERY %
							312 95.098					
		94.380	1.940					Siltstone - muddy, homog.			0.600	
42° at base	94.380							Mudstone - slightly carb., homog. silty			0.940	
							317 96.623					
		95.790	1.410					Mudstone - carb., coal fragments, silty			0.520	
								- - TOP OF BOX 22 - -				
42° at bottom	95.790	96.840	1.050					Siltstone - muddy, finely bedded homog., little carb. debris			1.092	
							322 98.146					
								Mudstone - carb., coal stringers, plant impressions			0.230	
		97.570	.730					Mudstone - as above			0.525	
			x	.7880								
38°	97.570	97.612	.042	.033				Coal - bony, high ash			0.042	
		97.727	.115	.091				Coal - bright banded			0.115	
		97.900	.173	.136				Missing - coal				
							325 99.060					
	97.900	98.020	.120	.095				Mudstone - carbonaceous			0.120	
		98.08	.060	.047				Missing - mdst.				
	98.08	98.22	.140	.110				Coal - d ll			0.140	
	98.22	98.30	.080	.063				Coal - d ll banded			0.080	

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DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No. SD-7614 SHEET No 21

DATE BEGUN: DEPTH: BEARING: UTM:

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int	RECOVERY m	RECOVERY m.Rec	RECOVERY %
	98.30	98.970	.670	.528				Missing - coal				
	98.970	99.170	.200	.158				Coal - d.l.l., broken, sheared			0.200	
	99.170	99.240	.070	.055				Missing - coal				
							327					
							99.670					
	99.240	99.410	.170					Mudstone - broken, carbonaceous, probable core loss			0.170	
		99.535	.125					Mudstone - carbonaceous, sheared			0.125	
		99.595	.060					Mud - pulverized core			0.060	
		99.655	.060					Missing				
							329					
							100.279					
	99.655	100.105	.450					Mudstone - carbonaceous			0.450	
							332					
							101.194					
		100.449	.344					Siltstone - carbonaceous, calcite veinlets at base			0.374	
		100.779	.330					Sandstone - f.g., light grey			0.360	
								- - TOP OF BOX 23 - -				
35° at top		101.329	.550					Sandstone - med. gr., light grey, homog., cross bedded, calcite fracture filling UCA = 60° @ 0.3 & 0.6m from top			0.610	
							336					
							102.413					
		101.479	.150					Sandstone - as above			0.150	

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DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7614 SHEET No: 22

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m.Rec.	RECOVERY %
		102.109	.630					Siltstone - sandy, minor carb. frgm. along bedding			0.655	
	102.109	102.804	.695					Siltstone - as above, occ. calcite fracture filling			0.730	
							341 103.937					
	102.804	103.210	.406					Siltstone - as above			0.426	
	103.210	103.420	.210					Mudstone - minor carb. frgm.; coaly			0.210	
	103.420	103.550	.130					Mudstone - carb.			0.130	
			x	.83867								
33°	103.55	103.68	.130	.109				Coal - pulverized, very shaley, dull & bright			0.130	
	103.68	104.04	.360	.302				Mudstone - very carb., coal stringers			0.360	
		104.185	.145	.122				Coal - d l.l banded			0.145	
		104.335	.150	.126				Coal - d l.l & bright			0.150	
		104.430	.095	.080				Coal - d l.l			0.095	
							346.5 105.613					
	104.430	104.560	.130					Mudstone - carb., coal stringers			0.130	
		104.775	.215					Siltstone - sandy, carb. frgm.			0.215	
								- - TOP OF BOX 24 - -				

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DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7614 SHEET No: 23

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m.Rec.	RECOVERY %
		105.335	.560					Siltstone - as above			0.560	
30° at base		105.985	.650					Sandstone - silty, carb., coal frgm. calcite fracture filling @ base JCA = 30°			0.650	
							352 107.290					
		106.145	.160					Sandstone - as above			0.160	
		107.545	1.400					Sandstone - as above, v.f.g. - f.g. light grey, slightly carb. - calcite filled joint 0.4m from base, JCA = 60°			1.470	
		107.645	.100					Sandstone - as above			0.100	
							357 108.814					
42° at base	107.645	108.985	1.340					Siltstone - sandy, finely bedded, numerous calcite veinlets, fossil leaf impression @ base, sheared - (listric coal surface) 0.3m from base			1.340	
								- - TOP OF BOX 25 - -				
		109.208	.223					Mudstone - carb., coal frgm.			0.223	
							362 110.838					
		109.808	.600					Mudstone - as above			0.600	
46° 0.2m from top		110.458	.650					Siltstone - light grey, finely bedded			0.650	

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DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7614 SHEET No: 24

DATE BEGUN: DEPTH: BEARING: U.T.M.:
DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:
LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m.Rec.	RECOVERY %
		110.518	.060					Siltstone - as above			0.060	
		110.508	.050					Mudstone - coal, coal stringers 0.005m			0.050	
							367 / 111.862					
		111.868	1.300					Mudstone - carbonaceous, slightly silty, fossil leaf impressions throughout, 0.020m coal band at base			1.300	
		112.033	.165					Mudstone - as above			0.165	
							372 / 113.886					
		113.263	1.230					Mudstone - as above, silty			1.230	
								- - TOP OF BOX 26 - -				
	113.263	113.563	.300					Mudstone - as above, homog., little carb. debris			0.300	
		113.613	.050					Siltstone - slightly carb.			0.050	
							377 / 114.910					
35° 0.7m from top		114.738	1.120					Siltstone - as above, sandy lenses, carbonaceous, muddy lenses			1.120	
		115.068	.335					Siltstone - as above, JCA = 40°, calcite fracture filled @ 0.200 from top			0.335	
							382 / 116.434					
		116.188	1.120					Siltstone - as above, slightly carb. at base			1.120	

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DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7614 SHEET No: 25

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m. Rec.	RECOVERY %
		116.713	.525					Siltstone - as above, broken at top			0.525	
							387 117.958					
		117.451	.738					Siltstone - sandy lenses, muddy lenses, occ. coal frgm. pyrite @ 0.4m from top along fractur, broken core near base			0.738	
							389.5 118.720					
								-- TOP OF BOX 27 --				
30° at base	117.45	118.277	.826					Siltstone - sandy, finely bedded, slightly carb., calcite veinlet at top			0.826	
							392 119.482					
		118.857	.580					Siltstone - as above, rel. homog. broken core at base			0.580	
		119.957	1.100					Siltstone - as above, sandy & muddy interbedded			1.100	
							397 121.006					
43° at top		120.262	.305					Siltstone - as above, carb.			0.305	
		121.440	1.178					Siltstone - as above, sandy, slightly carb			1.178	
							402 122.530					
		121.700	.260					Mudstone - silty, carb.			0.260	

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DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7614 SHEET No: 26

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick.	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m. Rec.	RECOVERY %
								- - TOP OF BOX 28 - -				
		121.840	.140					Mudstone - broken, sheared			0.140	
							404 / 123.140					
		122.35	.510	x .71934				Mudstone - black, carb., coal frgm.			0.510	
	122.35	122.425	.075	.054				Coal - bony, high ash, very broken core			0.075	
44°		122.510	.085	.061				Coal - d. l.l & bright			0.085	
		122.75	.240	.173				Missing - coal				
	122.75	122.92	.170					Mudstone - coaly			0.170	
45° at top		123.365						Siltstone - sandy, finely bedded, calcite veinlet, JCA = 50° @ base			0.445	
							409.5 / 124.816					
		124.84						Siltstone - finely bedded, coal stringer @ 0.53m from top, calcite veinlet 0.25m from top, JCA = 60°, slightly carb.			1.475	
		124.965						Siltstone - as above, muddy			0.125	
							415 / 126.492					
		126.310						Siltstone - as above			1.345	
								- - TOP OF BOX 29 - -				
		126.510						Siltstone - as above			0.200	

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DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7616 SHEET No: 27

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick.	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m. Rec.	RECOVERY %
							420 128.016					
45° 0.49m from top		127.63						Sandstone - v.f.g., silty			1.230	
		128.035						Sandstone - as above			0.405	
							425 129.540					
		128.865						Sandstone - as above			0.830	
	128.865	129.105						Siltstone - slightly carb., dark grey, finely bedded			0.240	
		129.555						Siltstone - as above				
							430 131.064					
		130.470						Siltstone - sandy, as above			0.915	
								- - TOP OF BOX 30 - -				
		131.070						Sandstone - v.f.g., light grey, shear surface @ top			0.600	
							435 132.588					
30° at base		131.825						Sandstone - as above			0.755	
		132.635						Sandstone - v.f.g. to f.g., finely bedded			0.810	
							440 134.112					
		133.225						Sandstone - as above			0.590	
		134.185						Sandstone - as above, slightly carb.			0.960	

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DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7614 SHEET No: 28

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick.	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m. Rec.	RECOVERY %
		134.575						Sandstone - as above, f.g., calcite veinlet @ base JCA = 60°			0.390	
								- - TOP OF BOX 31 - -				
		135.705						Sandstone - v.f.g., light grey, finely bedded, calcite fracture filling 0.3m from bottom JCA = 60°			1.130	
							450 / 137.160					
	135.705	135.920						Sandstone - f.g., finely bedded, med. grey			0.215	
		137.240						Sandstone - dk. grey, v.f.g., slightly carb.			1.320	
							455 / 138.684					
		137.380						Sandstone - as above, carb.			0.140	
		138.795						Sandstone - as above, fine grained calcite fracture filling @ 0.5m from top JCA = 0°			1.415	
							460 / 140.208	- - TOP OF BOX 32 - -				
35° 0.6m from base		140.234						Sandstone - fine gr., lt. grey			1.439	
		140.334						Sandstone - as above			0.100	
							465 / 141.732					
		141.664						Sandstone - as above, slightly carb., silty towards base			1.330	

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DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7614 SHEET No: 29

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick.	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m.Rec.	RECOVERY %
		141.799						Sandstone - as above			0.135	
							470 / 143.255					
40° at base		143.096						Sandstone - as above			.297	
								- - TOP OF BOX 38 - -				
	143.096	143.336						Sandstone - slightly carb., laminated			0.240	
							475 / 144.780					
		144.521						Sandstone - v.f.g., slightly carb.			1.185	
		144.963						Sandstone - silty, laminated			0.442	
							480 / 146.304					
28° at base		145.578						Siltstone - carb. along bedding planes finely laminated, sandy			0.615	
							482 / 146.914					
		145.878						Siltstone - sandy, carb. fragments			0.300	
		146.188						Siltstone - as above			0.310	
		146.903						Mudstone - carb., fossil frgm.			0.715	
							487 / 148.438					
30° at base		147.175						Mudstone - as above, carb., coal stringers @ base, calcite fracture fill // to bedding @ base			0.272	

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DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7614 SHEET No: 30

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m.Rec.	RECOVERY %
								- - TOP OF BOX 34 - -				
		147.550						Mudstone - carb., coaly, fossil leaf impressions			0.375	
		147.620						Coal - very shaley			0.070	
38° at top	147.620	147.680	.060					Mudstone - coaly, silty			0.060	
	147.680	147.805	.125	.096				Coal - d.l. banded			0.125	
		147.840	.035	.028				Missing - coal				
38°	147.840	147.930	.090	.071				Mudstone - coaly			0.090	
		148.040	.110	.087				Sandstone - lt. grey, coal stringers			0.110	
	148.040	148.165	.125	.096				Coal - d.l.			0.125	
		148.325	.160	.126			3.1.13	Coal - d.l. & bright			0.160	
		148.475	.150	.118				Coal - bright banded, broken			0.150	
		148.660	.185	.146				Missing - coal				
							492					
							149.962					
		148.770	.110	.087				Coal - d.l. & bright			0.110	
	148.770	148.790	.020	.016				Mudstone - carb.			0.020	
		148.920	.130	.102				Missing - claystone				
	148.920	149.040	.120	.095				Coal - d.l. banded, broken			0.120	
		149.156	.116	.091				Coal - d.l., broken			0.116	

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DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7618 SHEET No: 31

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m.Rec.	RECOVERY %
		149.354	.198	.156				Coal - bony, high ash, broken			0.198	
		149.536	.182	.143				Coal - d.l. & bright			0.182	
		149.773	.237	.187				Coal - pulverized, d.l. & bright			0.237	
		149.853	.080	.063				Coal - sheared, bright banded			0.080	
	149.853	149.958	.105	.083				Coal - bony, v. high ash, shaley			0.105	
		150.078	.120	.095				Coal - pulverized, d.l., core loss			0.120	
		150.163	.085	.067				Coal - d.l. banded			0.085	
		150.248	.085	.067				Coal - sheared, bony			0.085	
							497 / 151.486					
		150.318	.070	.055				Coal - very broken, d.l., shaley			0.070	
		150.398	.080	.063				Mudstone - coaly			0.080	
		150.458	.060	.047				Coal - d.l. & bright			0.060	
		150.528	.070	.055				Coal - bony			0.070	
		150.658	.130	.102				Coal - d.l. & bright, badly broken, probable core loss			0.130	
	150.658	150.933						Mudstone - carb., coal fragments			0.275	

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DENESON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7614 SHEET No: 32

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick.	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m.Rec.	RECOVERY %
		151.713						Siltstone - carb., finely bedded calcite fracture filling 60° @ 0.4m from top			0.780	
							502 153.010	- - TOP OF BOX 35 - -				
38° at top		153.168	1.455					Siltstone - as above, muddy, slightly carb., broken @ 0.7m, occ. coal frgm.			1.455	
	153.168	153.303						Siltstone - as above			0.135	
							507 154.534					
		154.389	1.086					Siltstone - as above, carb., coal stringer 0.25m from base & sheared			1.086	
		154.519						Siltstone - as above			0.130	
		154.769						Mudstone - carb., homog., occ. coaly			0.250	
							512 156.058					
		155.691	.922					Mudstone - as above, carb. debris			1.072	
								- - TOP OF BOX - -				
		156.298	.607					Mudstone - as above, silty			0.657	
							517 157.582					
25° at top		157.061						Siltstone - finely laminated, carb. minor coal stringers			0.763	
		157.836	.775					Mudstone - silty, homog., minor carb. debris			0.800	

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DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7614 SHEET No: 33

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick.	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m.Rec.	RECOVERY %
							.522 / 159.106					
		158.483	.647					Mudstone - as above, silty			0.677	
		159.373	.890					Mudstone - as above			0.960	
							.527 / 160.630					
	159.373	159.839						Siltstone - muddy, dk. grey, slightly carb.			0.466	
								- - TOP OF BOX 37 - -				
30° at top		160.864						Sandstone - v.f.g., silty, fossil plant fragments, minor carb. debris at base			1.025	
							.532 / 162.154					
		161.277						Sandstone - as above			0.413	
		162.412	1.135					Sandstone - as above, rel. homog.			1.185	
							.537 / 163.678					
30° at base		162.622						Sandstone - as above, v.f.g.			0.210	
30° 0.5m from top		163.922						Sandstone - f.g., occ. minor carb. debris, finely bedded			1.300	
							.542 / 165.202					
								- - TOP OF BOX 38 - -				
35° at base		166.362	1.440					Sandstone - v.f.g., rel. homog., laminated bedding, silty @ base, little carb. debris, calcite fracture filling @ 1.0m from top // bedding			1.500	

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DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7614 SHEET No: 34

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick.	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m.Rec.	RECOVERY %
		165.467						Sandstone - as above			0.105	
							547					
							166.726					
	165.467	166.797	1.330					Sandstone - as above, minor carb. debris, shear surfade 0.2m from top, fine grained			1.355	
48° at base		166.932						Sandstone - as above			0.135	
							552					
							168.250					
		168.107	1.175					Sandstone - as above, JCA 0.5m from top, calcite filled = 60°			1.275	
								- - TOP OF BOX 39 - -				
		168.467						Sandstone - as above, f.g.			0.360	
							557					
							169.774					
44° at base		169.517	1.050					Sandstone - as above			1.075	
		170.002						Sandstone - as above, minor carb. films along bedding planes			0.485	
							562					
							171.300					
		170.913	.911					Sandstone - as above, f.g.			0.986	
18° at base		171.533	.620					Sandstone - as above			0.670	
							567					
							172.822					
		172.288						Sandstone - silty, finely laminated, slightly carb.			0.755	

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DENESON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7614 SHEET No: 35

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick.	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m.Rec.	RECOVERY %
								- - TOP OF BOX 40 - -				
	172.288	173.023						Sandstone - v.f.g., laminated, lt. grey, calcite fracture filling @ 0.45m from top JCA = 60°			0.735	
							572 / 174.346					
		173.745						Sandstone - as above, occ. carb. films along bedding			0.722	
20° 0.3m from top		174.535						Sandstone - as above, f.g.			0.790	
							577 / 175.870					
		175.09	.555					Sandstone - as above, core broken @ base			0.655	
		176.06	.970					Sandstone - as above, slightly carb., few calcite veinlets near base			1.120	
							582 / 177.394					
		176.405						Sandstone - as above			0.345	
								- - TOP OF BOX 41 - -				
23° at base		177.585	1.180					Sandstone - as above, hairline calcite veinlets at top, calcite fracture filling w/pyrite & qtz @ 0.7m from top, sheared			1.320	
							587 / 178.918					
	177.585	177.66						Sandstone - as above, sheared, calcite fracture filling // to bedding			0.075	

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DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7614 SHEET No: 36

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick.	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m. Rec.	RECOVERY %
		179.06	1.400					Sandstone - as above, v.f.g., slightly carb., calcite veinlet throughout, usually ⊥ to bedding DCA 50°, broken & sheared, calcite fracture filled 0.8 - 1.2m from top, silty @ base			1.500	
							592 180.442					
30° 0.3m from top		180.345						Siltstone - sandy, finely bedded, laminated, carb., fossil plant debris			1.285	
		180.540						Mudstone - carb., coaly			0.195	
	180.540	180.585	.045	.040				Coal - dull & bright			0.045	
28°								- - TOP OF BOX 42 - -				
							597 181.966					
		180.685	.100	.088				Coal - dull, bony, metallic lustre, high ash			0.100	
						2.1.13						
		181.090	.405	.358				Coal - dull			0.405	
		181.173	.083	.073				Coal - dull banded			0.083	
		181.301	.128	.113				Coal - bony, sheared, dull			0.128	
		181.440	.139	.123				Missing - Claystone - BR density detail log				
	181.440	181.585	.145	.128				Coal - dull banded			0.145	
		181.735	.150	.132				Coal - dull, metallic lustre			0.150	

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DENTSON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7614 SHEET No: 37

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick.	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m.Rec.	RECOVERY %
		181.800	.065	.057				Coal - very broken, pulverized d.l & bright			0.065	
		182.110	.310	.274				Missing - coal				
		182.280	.170	.150				Coal - d.l & bright			0.170	
						2	1.13					
		182.440	.160	.141				Coal - d.l banded, broken			0.160	
		182.740	.300	.265				Missing - coal				
		182.790	.050	.044				Coal - d.l & bright			0.050	
							602					
							183.490					
		182.875	.085	.075				Coal - d.l banded, broken			0.085	
		183.675	.800	.706				Missing - coal				
		183.715	.040	.035				Coal - shaley, very high ash			0.040	
		184.280	.065	.057				Coal - d.l			0.065	
		184.880	.600	.530				Missing - coal				
	184.880	185.060	.180					Mudstone - coaly, carb., slickensided along bedding planes			0.180	
		185.230	.170					Sandstone - silty, carb. along bedding planes			0.170	
							612					
							186.538					
25° at top		186.082	.852					Sandstone - as above, f.g. - m.g., rel. massively bedded			0.952	
	186.082	186.767	.685					Sandstone - as above, calcite fracture filling @ top JCA = 75°			0.685	
							617					
							188.062					
		187.407	.640					Sandstone - as above, silty, v.f.g., minor carb. debris, fossil frgm.			0.640	

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DENESON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7614 SHEET No: 38

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick.	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m. Rec.	RECOVERY %
								- - TOP OF BOX 43 - -				
30° at top		188.297	.890					Sandstone - v.f.g., laminated, minor carb. debris along bedding			0.890	
							622 189.586					
		188.782	.485					Siltstone - dk. grey, carb., thin coal stringers muddy			0.485	
		189.037	.255					Siltstone - as above			0.255	
		189.792	.755					Sandstone - f.g., dark banded				
							627 191.110					
		189.842	.050					Sandstone - as above			0.050	
38° at top		190.102	.260					Siltstone - finely bedded, minor carb. debris, JCA = 55° @ base			0.260	
	190.02	191.302	1.200					Siltstone - as above, sandy bands, slightly carb.				
							632 192.634					
		191.472	.170					Siltstone - as above			0.170	
								- - TOP OF BOX 44 - -				
		191.964	.492					Siltstone - as above, rel. homog., little carb. debris			0.492	
45° at top		192.834	.870					Sandstone - v.f.g. - f.g., lt. grey, bedded			0.870	

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DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7614 SHEET No: 39

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	THICKNESS Thick.	THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m. Rec.	RECOVERY %
							637 194.158					
		192.908	.074					Sandstone — as above			0.074	
		194.351	1.443					Siltstone - dk. grey, finely bedded, minor carb. debris			1.443	
							642 195.682					
		195.740	1.389					Siltstone - as above, occ. sandy & muddy bands, minor carb. debris				
								- - TOP OF BOX 45 - -				
		195.875	.135					Siltstone - as above			0.135	
							647 197.206					
25° at top		196.580	.705					Siltstone - as above, dark banded, hairline calcite veinlet @ base JCA = 65°			0.705	
		196.850	.270					Mudstone - v. carb., coal stringers, silty at top			0.270	
34°	196.85	197.020	.170	.141				Coal - bright, round brown "seeds" throughout bright coal			0.250	
		197.207	.187	.155				Coal - bright, calcite fracture // core axis			0.275	
		197.401	.194	.161				Coal - d 11 & bright, brittle, core, 0.1m chunks, calcite fractures JCA 56° @ base			0.285	
	197.401	197.661	.260	.216				mdst - carb.			0.650	

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DENTSON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7614 SHEET No: 40

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick.	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m. Rec.	RECOVERY %
	197.661	197.731	.070	.058				Coal - dull banded				
		197.921	.190	.158				Coal - missing				
		197.971	.050	.041				Coal - bony, dull, high ash				
		198.111	.140	.116				Coal - missing				
42°	198.111	198.159	.048	.036				mdst - carb.				0.050
at base							654.5					
							199.492					
		198.807	.648	.482				slt, sandy, occ. dk, banded, slightly carb.				0.675
		198.927	.120	.089				slt, as above				0.125
		199.076	.149	.111				mdst, carb, silty				0.155
							658					
							200.558					
		199.577	.501	.372				mdst, carb., coal str. .030 m				0.522
40°		200.158	.581	.432				slt, laminated, dk. banded, occ. sandy				0.605
at base												
								- - TOP OF BOX 46 - -				
		200.470	.312	.232				slt, as above, muddy				0.325
							662.1					
							201.778					
46°		201.108	.638	.474				slt, muddy, monor carb debris				0.665
at base		201.511	.403	.299				mdst, carb, sheared, coaly @ base				0.420
39°	201.611	201.831	.320	.249				Coal - broken core, bony, high ash				
		202.231	.400	.311				Coal - missing				
		202.336	.105	.082				Coal - dull				
		202.388	.052	.040				Coal - dull banded				
		202.486	.095	.074				Coal - dull				
		202.538	.055	.043				Coal - dull banded				

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DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7614 SHEET No: 41

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick.	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m.Rec.	RECOVERY %
		202.553	.015	.012				Coal - d.ll, metallic lustre				
		202.791	.238	.185			1.1	Coal - crushed @ base, d.ll				
		203.180	.389	.302				Coal - missing				
	203.180	203.505	.325	.253				mdst. carb. sheared @ base & Top				
						1.2.1	672.1 / 204.820					
		203.775	.270	.210				mdst - mudstone & coal, broken fragments, carb. bony				
	203.775	203.835	.060	.047				Coal - high core loss, bony				
		204.680	.845	.657				Coal - missing				
						1.3.1						
	204.680	204.828	.148	.115				mdst - coaly, broken fragments				
	204.828	205.121	.293	.228				Coal - d ll				
		205.251	.130	.101				Coal - d ll banded				
		205.520	.269	.209				Coal - missing				
33° 0.2m from base	205.520	206.308	.788					Sandstone - DISTINCTIVE, massively bedded, med. grained, calcite fracture fill 0.6m from top JCA = 50° ⊥ bedding, lt. grey			0.788	
								- - TOP OF BOX 47 - -				
		206.564	.256					Sandstone - as above			0.256	
							682 / 207.874					

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DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7614 SHEET No: 42

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAY: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	THICKNESS Thick.	THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m.Rec.	RECOVERY %
		207.729	1.165					Sandstone - as above, massively bedded occ. calcite fracture filling			1.165	
30° at base		208.129	.400				687 209.400	Sandstone - as above			0.400	
		209.139	1.010					Sandstone - as above, calcite filled fractures JCA = 45°, occ. carb. films along bedding			1.010	
	209.139	209.574	.435					Sandstone - as above, JCA = 48° ⊥ bedding			0.435	
							692 210.922					
32° 0.2m from top		210.464	.890					Sandstone - as above			0.890	
								- - TOP OF BOX 48 - -				
		211.169	.705				697 212.446	Sandstone - as above			0.705	
		211.872	.703					Sandstone - as above, dk. mudstone lense @ 0.26 from top, sheared 0.1m from base - mudstone lense 0.02m thick w/coal stringers			0.703	
		211.180	.308					Missing - as above				
30° at base		212.975	.195					Sandstone - as above, muddy lenses near base, med. to coarse grained 0.6m from top			0.795	
							702 213.970					

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DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7614 SHEET No: 43

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick.	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m.Rec.	RECOVERY %
		213.623	.648					Sandstone - as above, muddy w/carb. @ top, broken @ top - mudstone lense @ 0.3m from top			0.648	
		214.523	.900					Missing - as above				
32° at base		215.448	.925					Sandstone - as above, occ. calcite filled fractures, pebbles @ 0.6m from top			0.925	
							707 215.494					
	215.448	215.973	.525					Sandstone - as above, calcite filled fracture JCA = 54° @ 0.2m from top, chert & mudstone pebbles near base			0.525	
								- - TOP OF BOX 49 - -				
26° at base		217.011	1.038					Sandstone - as above, homog. - massive pebbly 0.7m from top calcite filled fracture ⊥ bedding JCA = 48°			1.038	
							712 217.018					
28° at base		217.408	.392					Sandstone - as above, calcite filled fracture @ top JCA = 50°			0.392	
		218.478	1.070					Sandstone - as above, calcite veinlets ⊥ bedding @ 0.1m from top			1.070	
							717 218.542					
		218.764	.291					Sandstone - as above			0.291	

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DENTSON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7614 SHEET No: 44

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick.	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m. Rec.	RECOVERY %
30° at base		220.66	1.302					Sandstone - as above, lt. grey, homog. massive, JCA = 38° @ 0.5m from top			1.302	
							722					
							220.066					
								END HOLE SD-76-14				

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PROJECT SAXON

HOLE NO. SD 7615 BEARING 220° ANGLE 60°

COLLAR ELEVATION _____ TOTAL DEPTH 217.932m

Seam No. 10 Structure Contour Elevation _____

Coal Interval 12.398 - 15.085 60° Dip (Geophysical Log Pick)

Coal Thickness 1.345 Isopach No. 1.35 total mineable section
0 rock

Core Data:

A. Coal Present 0.938 Rock Present -

Coal Absent 0.407 Rock Absent -

Total Coal 1.345 Total Rock -

Grand Total 1.345m

B. Rock/Coal -

C. % Core Recovery 69.74 Sample 10.1.1

Seam No. 5 Structure Contour Elevation _____

Coal Interval 153.70-155.20 28° Dip (Geophysical Log Pick)

Coal Thickness 1.266/.0181.040 Isopach NO 1.33 total mineable section
.02 rock

Core Data:

A. Coal Present 1.081 Rock Present .018

Coal Absent .225 Rock Absent -

Total Coal 1.306 Total Rock .018

Grand Total 1.324m

B. Rock/Coal .014

C. % Core Recovery 83.01 Sample 5.1.1

Seam No. 4 Structure Contour Elevation _____

Coal Interval 201.34 - 208.70 31° Dip (Geophysical Log Pick)

Coal Thickness _____ Isopach Total mineable section 6.38
rock 2.05

Core Data:

A. Coal Present 1.98 Rock Present 1.28

Coal Absent 2.53 Rock Absent 1.33

Total Coal 4.51 Total Rock 2.61

Grand Total 7.12m

B. Rock/Coal .579

C. % Core Recovery 45.79

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD -7615 SHEET No: 1

DATE BEGUN: 7/10/76 DEPTH: BEARING: 220° U.T.M.:

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: 60° LOGGED BY: Ralloks CORE SIZE: HQ 63.5 mm.

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m.Rec	RECOVERY %
	0	3.142	3.142					No Core				
	3.142	4.572	1.430				16' 4.572	Silty Claystone - dark grey, massive			1.430	
	4.572	4.997	0.425				16' 4.877	as above			0.425	
	4.997	6.097	1.100				21' 6.401	as above			1.100	
	6.097	7.347	1.250					as above			1.250	
								Top of Box 2				
	7.347	7.552	0.205				26'	as above			0.205	
	7.552	7.925	0.373		Core	Loss	7.925					
	7.925	8.945	1.020				30	as above			1.020	
	8.945	9.144	0.199		Core	Loss	9.144					
	9.144	10.574	1.430				35'	as above, grading into claystone			1.430	
	10.574	10.668	0.094		Core	Loss	10.668					
	10.668	12.183	1.515				40' 12.192	Claystone: dark grey with plant remnants, at base soft, weathered			1.515	
								Top of Box 3				
	12.183	12.398	0.215	.108				Claystone: brownish grey, soft, weathered			0.215	
	12.398	12.848	0.450	.225				Coal - d.l. and bright, broken, weathered			0.450	
	12.848	13.228	0.380	.90				Coal - d.l., banded, broken, weathered			0.380	
	13.228	13.411	0.183	.092	Core	Loss	44' 13.411					
	13.411	13.511	0.100	.050				Coal - d.l., heavy			0.100	
	13.511	13.876	0.365	.183				Coal - d.l., banded			0.365	

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DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD - 7615 SHEET No: 2

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m. Rec.	RECOVERY %
	13.876	14.106	0.230	.115				Coal - d.ll. and bright, sheared			0.230	
	14.106	14.306	0.200	.100				Coal - d.ll., banded			0.200	
	14.306	14.935	0.629	.315	Core	Loss	40' 14.935					
	14.935	15.085	0.150	.075				Coal - d.ll., banded, broken			0.150	
	15.085	16.445	1.360	.680				Claystone - dark, grading into dark grey siltstone, at top carb., at base badly broken			1.360	
	16.445	16.459	0.014		Core	Loss	54' 16.459					
	16.459	16.809	0.350					Siltstone - dark grey, grey at base			0.350	
								Top of Box 4				
	16.809	17.999	1.190				59' 17.983	Siltstone - grey, occasionally sandy			1.190	
60° 0.55m from base	17.999	19.509	1.510				64 19.507	as above			1.510	
	19.509	21.024	1.515				69' 21.031	as above, few calcite veins			1.515	
								Top of Box 5				
	21.024	21.424	0.400					Siltstone - grey, occasionally sandy			0.400	
	21.424	21.641	0.217		Core	Loss	71' 21.641					
	21.641	23.131	1.490				76' 23.165	as above			1.490	

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DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD - 7615 SHEET No: 3

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m. Rec.	RECOVERY %
	23.131	24.661	1.530					as above, grading into sandstone			1.530	
							81' 24.689					
55° - 0.20m from base	24.661	25.361	0.700					Sandstone - light grey to grey, mg, carb. inclusions. Top of Box 6			0.700	
39°	25.361	26.166	0.805					as above			0.805	
							86' 26.213					
	26.166	26.911	0.745					Sandstone - light grey to grey, mg, grading into siltstone			0.745	
	26.911	26.971	0.060					Claystone - dark			0.060	
							90' 27.432					
	26.971	27.201	0.230					as above			0.230	
							92' 28.042					
	27.201	28.740	1.539					as above, few coal streaks, some calcite veins and slickensides			1.539	
							97' 29.566					
	28.740	28.800	0.060					Claystone - dark, carb			0.060	
	28.800	29.350	0.550					Coal - highly sheared and broken			0.550	
	29.350	29.850	0.500		Core	Loss						
							100' 30.480					

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DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD-7615 SHEET No: 4

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m. Rec	RECOVERY %
	29.850	30.720	0.870					Silty Claystone - dark grey, at top dark with few coal streaks and slickensides			0.870	
	30.720	32.004	1.284		Core	Loss	105 32.004					
	32.004	33.584	1.580					Silty Claystone - dark grey, few carb. inclusions			1.580	
							110 33.528					
	33.584	33.984	0.400					as above			0.400	
							111 33.528					
	33.984	35.229	1.245					as above			1.245	
								Top of Box 8				
	35.229	35.429	0.200					Silty Claystone - dark grey, massive			0.200	
							116 35.357					
	35.429	36.929	1.500					Silty Claystone - dark grey, massive			1.500	
							121 36.887					
	36.929	37.809	0.880					as above, slickensides			0.880	
							124 37.795					
90° 0.30m from top	37.809	39.009	1.200					as above, slickensides			1.200	
							128 39.014					
								Top of Box 9				

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DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD - 7615 SHEET No: 5

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m. Rec	RECOVERY %
	39.009	39.499	0.490					Silty Claystone - as above, slickensides			0.490	
	39.499	39.624	0.125		Core	Loss	130 39.624					
	39.624	41.144	1.520					Silty Claystone - grey, grading into siltstone, occasionally sandy, few coal inclusions			1.520	
							135 41.148					
	41.144	42.374	1.230					Siltstone - grey, sandy, few coal inclusions and calcite veins			1.230	
	42.374	42.672	0.298		Core	Loss	140 42.672					
	42.672	43.402	0.730					as above			0.730	
								Top of Box 10				
	43.402	44.187	0.785					Silty Claystone - grey, massive			0.785	
							145 44.196					
	44.187	45.732	1.545					as above			1.545	
							150 45.720					
90°	45.732	46.612	0.880					as above			0.880	
								FAULT				
90°	46.612	47.252	0.640					Sandstone - light grey to grey, argillaceous, irregular bedding			0.640	
	47.252	47.547	0.295					Sandstone - light grey to grey, mg, argillaceous, irregular bedded			0.295	
								Top of Box 11				

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DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD - 7615 SHEET No: 6

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m. Rec.	RECOVERY %
	47.547	47.937	0.390					as above			0.390	
								FAULT				
	47.937	48.777	0.840					Siltstone - grey, very argillaceous			0.840	
							160' 48.768					
	48.777	50.107	1.330					as above			1.330	
	50.107	50.292	0.185		Core	Loss	165' 50.292					
	50.292	51.572	1.280					as above, slickensides, very broken			1.280	
	51.572	51.816	0.244		Core	Loss	170' 51.816					
								Top of Box 12				
90°	51.816	52.716	0.900					Coal and Claystone, drilled along bedding plane, slickensides, broken			0.900	
	52.716	53.340	0.624		Core	Loss	175' 53.340					
	53.340	54.860	1.520					Sandstone - light grey to grey, mg, few coal inclusions, broken			1.520	
							180' 54.864					
75°	54.860	55.060	0.200					as above			0.200	
	55.060	56.060	1.000					Siltstone and Silty Claystone, dark, broken			1.000	
								Top of Box 13				
	56.060	56.350	0.290					Claystone - dark, few silt streaks			0.290	

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DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD - 7615 SHEET No: 7

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m	RECOVERY m Rec.	RECOVERY %
	56.350	56.388	0.038		Core	Loss	185 56.388					
	56.388	57.912	0.034		Core	Loss	190 57.912					
	57.912	59.402	1.490					Claystone - dark, few silt streaks			1.490	
							195 59.436					
70°	59.402	60.282	0.880					Claystone - dark grey, alternating with sand laminae			0.880	
								Top of Box 14				
	60.282	60.982	0.700					Sandstone - grey, alternating with argillaceous layers, few calcite veins			0.700	
							200 60.960					
	60.982	62.502	1.520					as above			1.520	
							205 62.484					
	62.502	62.722	0.220					as above, slickensides, broken			0.220	
	62.722	63.094	0.372		Core	Loss	207 63.094					
90°	63.094	64.054	0.960					as above			0.960	
at base	64.054	64.313	0.259		Core	Loss	211 64.313					
	64.313	64.563	0.250					as above			0.250	
								FAULT				
	64.563	64.913	0.350					Silty Claystone - dark, few coal inclusions			0.350	
								Top of Box 15				

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DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD - 7615 SHEET No: 8

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	m.	m. Rec.	%
	64.913	65.693	0.780					as above				
	65.693	65.837	0.144		Core	Loss	216' 65.837				0.780	
	65.837	67.407	1.570					as above			1.570	
							221' 67.361					
	67.407	68.932	1.525					as above			1.525	
							226' 68.885					
	68.932	69.172	0.240					Silty Claystone - dark, few coal inclusions			0.240	
								Top of Box 16				
	69.172	70.462	1.290				231'	as above			1.290	
	70.462	71.992	1.530				70.409	as above			1.530	
							236' 71.983					
	71.992	72.442	0.450					as above			0.450	
								FAUL				
-90°	72.442	73.452	1.010					Sandstone - grey fg, with dark arg. layers altern.			1.010	
							241' 73.456					
								Top of Box 17				
	73.452	74.962	1.510					as above			1.510	
							246' 74.981					

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DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD - 7615 SHEET No: 9

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m. Rec.	RECOVERY %
	74.962	76.452	1.490					as above			1.490	
							251' 76.505					
	76.452	77.682	1.230					as above, few coal inclusions			1.230	
								Top of Box 18				
	77.682	77.992	0.310					as above			0.310	
							256' 78.029					
80°	77.992	79.492	1.500					as above			1.500	
	79.492	79.553	0.061		Core	Loss	261' 79.553					
	79.553	81.073	1.520					as above			1.520	
							266' 81.077					
	81.073	81.993	0.920					as above, silty			0.920	
								Top of Box 19				
	81.993	82.273	0.280					Siltstone - grey			0.280	
	82.273	82.601	0.328		Core	Loss	271' 82.60					
	82.601	83.991	1.390					as above, broken, slickensides			1.390	
	83.991	84.125	0.134		Core	Loss	276' 84.129					
	84.125	85.535	1.410					Claystone - dark, slickensides, broken			1.410	
	85.535	85.649	0.114		Core	Loss	281' 85.649					

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DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD - 7615 SHEET No: 10

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m. Rec.	RECOVERY %
	85.649	86.669	1.020					as above			1.020	
								Top of Box 20				
	86.669	87.209	0.540					as above, with coal streaks			0.540	
							286' 87.173					
	87.209	88.359	1.150					as above			1.150	
	88.359	88.697	0.338		Core	Loss	291' 88.697					
	88.697	90.297	1.600					Claystone - dark, slickensides, broken, occasionally very silty			1.600	
							296' 90.221					
	90.297	90.637	0.340					as above			0.340	
								Top of Box 21				
	90.637	91.397	0.760					as above			0.760	
	91.397	91.745	0.348		Core	Loss	301' 91.745					
	91.745	93.275	1.530					as above				
							306' 93.269					
	93.275	94.165	0.890					as above, at base calcite veins			0.890	
								FAULT				
	94.165	94.805	0.640					Sandstone - light grey to grey, fg, argillaceous, slickensides, calcite veins			0.640	
							310' 94.488					

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DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD - 7615 SHEET No: 11

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m. Rec	RECOVERY %
	94.805	94.945	0.140					as above			0.140	
	94.945	95.055	0.110					Claystone - dark, with slickensides			0.110	
								Top of Box 22				
	95.055	96.095	1.040					as above			1.040	
							315' 96.012					
60° 0.60m from base	96.095	97.485	1.390					as above, at base silty			1.390	
	97.485	97.536	0.051		Core	Loss	320' 97.536					
	97.536	98.578	1.040					as above, at top silty			1.040	
							323' 98.450					
	98.576	98.996	0.420					Claystone - dark, with slickensides			0.420	
								Top of Box 23				
	98.996	99.156	0.160					as above, with carb. inclusions			0.160	
	99.156	99.365	0.209		Core	Loss	326' 99.365					
	99.365	100.925	1.560					as above, with carb. inclusions			1.560	
							331' 100.889					
	100.925	102.475	1.550					as above, with carb. inclusions			1.550	
							336' 102.413					
	102.475	103.055	0.580					Claystone - dark, with carb. inclusions, slickensides			0.580	
								Top of Box 24				

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DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD - 7615 SHEET No: 12

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

AT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m. Rec	RECOVERY %
	103055	103945	0.890					Claystone - as above			0.890	
							341' / 103937					
	103945	105475	1.530					Claystone - dark grey, slickensides, grading into sandstone			1.530	
							346' / 105461					
70° 0.70m from base	105475	107000	1.525					Sandstone - light grey to grey, mg. occasionally siltstone layers, slickensides			1.525	
							351' / 106985					
								Top of Box 25				
	107000	108530	1.530					as above			1.530	
							356' / 108509					
	108530	110040	1.510					as above			1.510	
							361' / 110033					
80° at base	110040	111150	1.110					Sandstone - light grey to grey, fg, alternating with siltstone, slicekensides			1.110	
								Top of Box 26				
	111150	111640	0.490					Siltstone - grey, occasionally sandy			0.490	
							366' / 111557					
	111640	113220	1.580					as above			1.580	
							371' / 113081					

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DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD - 7615 SHEET No: 13

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV. COLLAR TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m. Rec	RECOVERY %
	113220	114755	1.535					Siltstone - grey, occasionally sandy			1.535	
							376' 114605					
	114755	115315	0.560					as above			0.560	
								Top of Box 27				
	115315	116275	0.960					Siltstone - grey, massive			0.960	
							381' 116129					
	116275	117795	1.520					as above			1.520	
							386' 117553					
	117795	119365	1.570					Silty Claystone - dark grey, slickensides			1.570	
								Top of Box 28				
	119365	119455	0.090					as above			0.090	
							391' 119177					
	119455	120975	1.520					as above			1.520	
							396' 120070					
	120975	122490	1.515					as above			1.515	
							401' 122225					
	122490	123310	0.820					Siltstone - grey			0.820	
								Top of Box 29				
+90°	123310	124000	0.690					as above			0.690	

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DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD -76.5 SHEET No: 14

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m Rec	RECOVERY %
							406' 123.749					
	124.000	125.510	1.510					Silty Claystone - grey to dark grey			1.510	
							417 125.273					
	125.510	127.040	1.530					Silty Claystone - grey to dark grey			1.530	
							416 126.797					
	127.040	127.300	0.260					as above, slickensides			0.260	
								Top of Box 30				
	127.300	128.080	0.780					as above, slickensides			0.780	
							420' 128.016					
	128.080	129.605	1.525					as above, slickensides			1.525	
							425' 129.540					
	129.605	130.345	0.740					as above			0.740	
								FAULT				
-90°	130.345	131.095	0.750					Sandstone - light grey to grey, fg., carb streaks, slickensides			0.750	
							430' 131.064					
	131.095	131.340	0.245					as above			0.245	
								Top of Box 31				
	131.340	132.660	1.320					as above			1.320	
							435 132.588					

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DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD - 7615 SHEET No: 15

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m Rec.	RECOVERY %
	132.660	134.190	1.530					as above			1.530	
							440 / 134.112					
	134.190	134.790	0.600					as above			0.600	
							442 / 134.722					
	134.790	135.110	0.320					Siltstone - grey			0.320	
								Top of Box 32				
	135.110	136.370	1.260					as above, grading into claystone			1.260	
							447 / 136.246					
	136.370	137.820	1.450					Claystone - dark grey			1.450	
							452 / 137.770					
	137.820	139.120	1.300					as above, few carb. inclusions, slickensides			1.300	
								Top of Box 33				
	139.120	139.340	0.220					as above			0.220	
							457 / 139.294					
	139.340	140.620	1.280					as above			1.280	
	140.620	140.818	0.198		Core	Loss	462 / 140.818					
								FAULT				
20° 0.17m from top	140.818	142.348	1.530					Sandstone - grey, fg, with carb. streaks			1.530	
	142.348	143.458	1.110				467 / 142.342	as above			1.110	

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DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD - 7615 SHEET No: 16

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m. Rec.	RECOVERY %
								Top of Box 34				
	143458	143898	0.440					as above			0.440	
							471 / 143561					
	143898	144238	0.340					Silty Claystone - dark grey, at base dark claystone with coal streaks and slickensides			0.340	
							473 / 144170					
	144230	145098	0.860					Claystone - dark, carb., with coal streaks and slickensides, broken			0.860	
	145098	145694	0.596		Core	Loss						
							478 / 145694					
	145694	145894	0.200					as above			0.200	
22°	145894	146914	1.020					Sandstone - light grey, f to mf, with carb. streaks and few claystone layers			1.020	
	146914	147218	0.304		Core	Loss						
							483 / 147218					
	147218	148358	1.140					as above			1.140	
								Top of Box 35				
	148358	148388	0.030					as above			0.030	
	148388	149038	0.650					Claystone - dark			0.650	
	149038	149658	0.620					Sandstone - grey, fg, with carb. streaks			0.620	
	149658	150008	0.350					Claystone - dark, few coal streaks			0.350	
	150008	150266	0.258		Core	Loss						
							493 / 150266					

Form 71-0150-R02

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD - 7615 SHEET No: 17

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m Rec	RECOVERY %
24°	150.266	151.726	1.460					as above, middle portion silty			1.460	
0.8m from top							498 / 151.790					
	151.726	152.796	1.070					Claystone - dark, few coal streaks			1.070	
								Top of Box 36				
	152.796	153.231	0.435									
	153.231	153.314	0.083		Core	Loss		as above			0.435	
							503 / 153.314					
	153.314	153.514	0.200					as above, at base carb.			0.200	
	153.514	153.700	0.186		Core	Loss						
28°	153.700	154.170	0.470	0.415				Coal - d. II and bright, sheared			0.470	
	154.170	154.800	0.630	0.556				Coal - d. II, sheared			0.630	
							508 / 154.838					
	154.800	155.055	0.255	0.225	Core	Loss						
	155.055	155.085	0.030	0.026	5	1.1		Coal - d. II, sheared			0.030	
	155.085	155.135	0.050	0.044				Coal - d. II, banded			0.050	
	155.135	155.155	0.020	0.018				Claystone - dark, carb			0.020	
	155.155	155.200	0.045	0.040				Coal - stoney			0.045	
	155.200	155.290	0.090					Claystone - dark, carb.			0.090	
	155.290	155.448	0.158		Core	Loss	510 / 155.448					
32° at top	155.448	156.308	0.860					Claystone - dark, at top carb.			0.860	
	156.308	156.968	0.660					Sandstone - grey, fg, silty			0.660	
							515 / 156.972					

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DENTSON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD - 7615 SHEET No: 18

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m. Rec.	RECOVERY %
	156968	157223	0.255					as above			0.255	
								Top of Box 37				
	157223	158493	1.270					as above			1.270	
							520 / 158496					
	158493	159973	1.480					Siltstone - grey, at top sandy			1.480	
							525 / 160020					
	159973	161418	1.445					Siltstone - grey, occasionally sandy, grading into silty claystone			1.445	
								Top of Box 38				
	161418	161538	0.120					Silty Claystone - dark			0.120	
	161538	161849	0.311		Core	Loss	531 / 161849					
	161849	163379	1.530					as above, grading into claystone			1.530	
							536 / 163373					
	163379	146859	1.480					Claystone - dark, grading into siltstone			1.480	
							541 / 164897					
	164859	165649	0.790					Siltstone - grey, grading into claystone			0.790	
								Top of Box 39				
	165649	166359	0.710					Claystone - dark			0.710	
							546 / 166427					
	166359	167159	0.800					as above, grading into sandstone			0.800	

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DEINTSON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD - 7615 SHEET No: 19

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m Rec.	RECOVERY %
29° 0.12m from base	167.159	167.849	0.690					Sandstone - light grey to grey, f to mg, carb. streaks			0.690	
							551 / 167.945					
	167.849	169.319	1.470					as above, grading into mg			1.470	
							556 / 169.469					
	169.319	169.909	0.590					Sandstone - light grey to grey, mg, cross bedded			0.590	
								Top of Box 40				
	169.909	170.574	0.665					as above			0.665	
	170.574	170.869	0.295					Sandstone - light grey to grey, fg, with carb streaks			0.295	
							561 / 170.993					
	170.869	172.349	1.480					as above			1.480	
							566 / 172.517					
31° 0.58m from base	172.349	173.824	1.475					as above			1.475	
							571 / 174.041					
	173.824	173.974	0.150					Sandstone - light grey to grey, mg, with carb. streaks, cross bedded			0.150	
								Top of Box 41				
	173.974	175.384	1.410					as above			1.410	
							576 / 175.565					

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DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD - 7615 SHEET No: 20

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m.Rec	RECOVERY %
	175.384	176.864	1.480					as above			1.480	
							581 / 177.089					
	176.864	178.264	1.400					as above			1.400	
								Top of Box 42				
	178.264	178.439	0.175					as above			0.175	
							586 / 178.613					
	178.439	179.549	1.110					as above			1.110	
								FAULT				
	179.549	179.819	0.270					Sandstone - grey, fg, silty, with carb. streaks and calcite veins			0.270	
	179.819	180.137	0.318		Core	Loss	591 / 180.137					
	180.137	181.667	1.530					as above			1.530	
							596 / 181.667					
	181.667	182.557	0.890					as above			0.890	
								Top of Box 43				
30° 0.07m from base	182.557	183.082	0.525					Sandstone - light grey to grey, f to mg, with carb. streaks and few calcite veins			0.525	
							601 / 183.189					
	183.082	184.577	1.495					as above			1.495	
							606 / 184.709					

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DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD - 7615 SHEET No: 21

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m. Rec.	RECOVERY %
	184577	186027	1.450					Sandstone - light grey to grey, f to mg, carb. streaks and few calcite veins			1.450	
							611 / 186233					
	186027	186747	0.720					as above			0.720	
								Top of Box 44				
	186747	187587	0.840					as above			0.840	
							616 / 187757					
	187587	188677	1.090					as above			1.090	
							620 / 188976					
31° 0.25m from base	188677	190267	1.590					as above			1.590	
							625 / 190500					
	190267	190807	0.540					as above, grading into fg			0.540	
								Top of Box 45				
	190807	191777	0.970					Sandstone - grey, fg, silty			0.970	
							630 / 192024					
	191777	192677	0.900					as above			0.900	
								FAULT				
	192677	193347	0.670					Claystone - dark			0.670	
							635 / 193548					
	193347	194877	1.530					as above, grading into siltstone			1.530	
							640 / 195072					
								Top of Box 46				

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DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD - 7615 SHEET No: 22

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m. Rec.	RECOVERY %
	194.877	196.145	1.268					Claystone - dark, grading into siltstone				
	196.145	197.825	1.68					Sandstone - grey, silty, at top siltstone				
	197.825	199.625	1.80					Siltstone - grey				
	199.625	199.74	0.115					Claystone - dark				
	199.24	200.47	0.73					Claystone - dark				
	200.47	200.585	0.115	0.10				Coal - stoney				
	200.585	200.69	0.105	0.091				Coal - missing				
	200.69	200.77	0.08	0.069				Claystone - dark, carb.				
		201.29	0.520	0.45				Claystone - missing				
		201.34	0.05	0.043				Claystone				
	201.34	201.54	0.20	0.173				Coal - D.H.-Bright, Sheared, Broken				
		201.76	0.22	0.191				Coal - missing				
	201.76	201.83	0.07	0.061				Claystone - dark carbon				
		201.94	0.11	0.095				Claystone - missing				
	201.94	202.11	0.17	0.147				Coal - sheared				
		202.65	0.54	0.468				Coal - missing				
	202.65	202.73	0.08	0.069				Claystone - dark carbon, few coal streaks				
		202.94	0.21	0.182				Claystone - dark carbon at top 5 cm. soft clay highly sheared				
	202.94	203.88	0.94	0.814				Coal - missing				
		203.99	0.11	0.095				Claystone - dark carbon, slickensides				
		204.09	0.10	0.087				Claystone - missing				
	204.09	204.21	0.12	0.104				Coal - sheared				
		204.28	0.07	0.061				Coal - missing				

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DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD - 7615 SHEET No: 23

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m. Rec.	RECOVERY %
	204.28	204.3	0.02	0.017				Claystone - dark carbon				
		204.38	0.08	0.069				Claystone - missing				
	204.38	204.49	0.11	0.095				Coal - d. ll-bright				
		204.52	0.03	0.026				Coal - d. ll				
		204.75	0.23	0.199				- d. ll. banded, broken				
		205.03	0.28	0.242				- missing				
	205.03	205.56	0.53	0.459				Claystone - missing				
	205.56	205.92	0.36	0.312				Coal - missing				
	205.92	206.72	0.80	0.693				Claystone - dark, carbon, slickensides				
		206.82	0.10	0.087				Claystone - missing				
	206.82	207.170	0.36	0.303				Coal - d. ll-bright				
		207.46	0.29	0.251				Coal - missing				
	207.46	207.475	0.015	0.013				Claystone - dark grey, coal streaks				
		207.56	0.085	0.074				Claystone - missing				
	207.56	207.74	0.18	0.156				Coal - d. ll-bright				
		208.46	0.72	0.625				- sheared				
	208.46	208.52	0.06	0.052				Claystone - dark				
	208.52	208.57	0.05	0.043				Coal - stoney				
		208.70	0.13	0.113				Coal - missing				
	208.70	208.98	0.28					Claystone - dark				
								Top of Box 49				
	208.98	209.890	0.910					Claystone - dark few coal streaks				0.910
							690' 210312					

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DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD - 7615 SHEET No: 24

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m Rec	RECOVERY %
	209.890	211.440	1.550					as above			1.550	
							695					
							211.836					
	211.440	212.000	0.560					Silty Claystone - dark grey, grading into siltstone, at top few sand laminae			0.560	
	212.000	212.630	0.630					Siltstone - grey, sandy			0.630	
30° 0.06m from base	212.630	212.980	0.350					Sandstone - light grey to grey, fg, silty			0.350	
							700					
							213.360					
	212.980	213.170	0.190					Silty Claystone - dark grey			0.190	
								Top of Box 50				
	213.170	214.290	1.120					as above, few coal inclusions			1.120	
							705					
							214.884					
	214.290	215.835	1.545					as above, grading into dark claystone			1.545	
							710					
							216.408					
	215.835	215.995	0.160					Claystone - dark, grading into sandstone			0.160	
30° 0.11m from base	215.995	216.405	0.410					Sandstone - grey, fg			0.410	
								FAULT				
	216.405	216.995	0.590					Claystone - dark, with few sandstone bands			0.590	
	216.995	217.932	0.937		Core	Loss	715					
							217.932					
								END OF HOLE				

Form 71-0150-R02

PROJECT SAXON

HOLE NO. SD 76-16 BEARING .038° ANGLE 60°

COLLAR ELEVATION _____ TOTAL DEPTH 220.066 m.

Seam No. 10 Structure Contour Elevation _____

Coal Interval 28.900 - 30.910 23° Dip (Geophysical Log Pick)

Coal Thickness _____ Isopach not mineable 1.36
total rock 0.49

Core Data:

A. Coal Present 0.980 Rock Present 0.433

Coal Absent 0.378 Rock Absent 0.060

Total Coal 1.358 Total Rock 0.493

Grand Total 1.851 m.

B. Rock/Coal .363

C. % Core Recovery 76.34 Sample: 6.1.1

Seam No. Stringer Structure Contour Elevation _____

Coal Interval 38.460-40.700 20° Dip (Geophysical Log Pick)

Coal Thickness _____ Isopach _____

Core Data:

A. Coal Present 0.595 Rock Present 1.269

Coal Absent 0.240 Rock Absent -

Total Coal 0.835 Total Rock 12.69

Grand Total 2.104 m.

B. Rock/Coal 1.520

C. % Core Recovery 66.59

Seam No. 5 Structure Contour Elevation _____

Coal Interval 52.120 - 55.360 13° Dip (Geophysical Log Pick)

Coal Thickness _____ Isopach not mineable 1.50
total rock 0.18

Core Data:

A. Coal Present 0.360 Rock Present 1.023

Coal Absent 1.364 Rock Absent 0.448

Total Coal 1.724 Total Rock 1.471

Grand Total 3.195 m.

B. Rock/Coal .853

C. % Core Recovery 43.29

Coal Interval 78.040 - 81.000 19° Dip (Geophysical Log Pick)

Coal Thickness _____ Isopach total mineable 2.77 / total rock 0.40

Core Data:

A. Coal Present 1.102 Rock Present 0.209

Coal Absent 1.271 Rock Absent 0.189

Total Coal 2.373 Total Rock 0.398

Grand Total 2.771 m.

B. Rock/Coal .168

C. % Core Recovery 47.31 Sample: 4.1.1

Seam No. 3 Structure Contour Elevation _____

Coal Interval 114.400 - 117.359 23° Dip (Geophysical Log Pick)

Coal Thickness _____ Isopach not mineable 2.71 / total rock 1.38

Core Data:

A. Coal Present 1.053 Rock Present 0.424

Coal Absent 0.280 Rock Absent 0.957

Total Coal 1.333 Total Rock 1.381

Grand Total 2.714 m.

B. Rock/Coal 1.036

C. % Core Recovery 54.42 Sample

Seam No. Stringer, Directly Below 3 Structure Contour Elevation _____

Coal Interval 117.359 - 120.200 Dip 17 & 23° (Geophysical Log Pick)

Coal Thickness _____ Isopach _____

Core Data:

A. Coal Present 0.290 Rock Present 1.474

Coal Absent 0.364 Rock Absent -

Total Coal 0.654 Total Rock 1.474

Grand Total 2.128 m.

B. Rock/Coal 5.508

C. % Core Recovery 82.89

Seam No. _____ Structure Contour Elevation _____

Coal Interval _____ (Geophysical Log Pick)

Coal Thickness _____ Isopach _____

Core Data:

A. Coal Present Rock Present

Coal Absent _____ Rock Absent _____

Total Coal Total Rock

Grand Total _____

B. Rock/Coal _____

C. % Core Recovery _____

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No. SD 7616 SHEET No 1

DATE BEGUN: OCT./76 DEPTH BEARING: 038 U.T.M.

DATE FINISHED: OCT. 10/76 ELEV COLLAR TOTAL DEPTH COAL LICENSE:

LAT.: HOLE ANGLE 60 LOGGED BY C. MANKOWSKI CORE SIZE HQ

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m. Rec.	RECOVERY %
								TOP OF BOX 1				
	0	3.040					10. / 3.040	CASING				
	3.040	3.120	.080					Cave -				
	3.120	3.510	.390					Sandstone - MG				
	3.510	3.570	0.060					Sandstone - V.F.G.				
						1.980						
	3.570	4.080	.510			2.294		Clay - Unconsolidated, Containing Fragments of Siltstone				
	4.080	4.480	0.400					Sandstone - FG to MG				
	4.480	5.020	.540					Claystone - Very friable, almost unconsolidate				
						17.5 / 5.334						
	5.020	5.410	.390					As above - highly broken				
						1.372						
	5.410	5.580	.170			0.560		Silty claystone - broken traces of rusty weathering, massive bedded.				
	5.580	6.706	1.126					Core loss				
							22. / 6.706					
	6.706	7.141	.435					As above -				
						1.219						
	7.141	7.421	.280			0.895		Silty Claystone - Highly broken, with some clay rusty weathering.				
	7.421	7.601	.180					Siltstone - Massive bedding.				

Form 71-1150-R02

DENSON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD 7616 SHEET No 2

DATE BEGUN: DEPTH: BEARING: U.T.M.

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY In	RECOVERY m	RECOVERY m. Rec.	RECOVERY %
	7.601	7.925	0.324					Core Loss				
							26 / 7.925					
	7.925	8.395	.470					As above - highly broken.				
								- - Top of Box 2 - -				
						1.829 / 0.825						
	8.395	8.725	.330					Siltstone - Highly weathered, highly broken, sandy.				
	8.725	8.750	0.25					Sandstone - Fine grained, highly broken.				
	8.750	9.754	1.004					Core Loss.				
							32 / 9.754					
	9.754	10.054	.300					As above				
	10.054	10.274	.220			1.219 / 1.200		Sandstone - V.F.G. with many silty laminae				
	10.274	10.954	.680					Siltstone - With some sandy laminae highly broken at bass, traces of rusty weathering.				
							36 / 10.973					
28° at top	10.954	11.484	.530					Siltstone - sandy traces of rusty weathering, laminated.				
	11.484	12.294	.810			1.524 / 1.675		Siltstone - highly broken, rusty weathering.				
	12.294	12.554	.260					As above - solid				

Form 71-1150 Rev 2

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No. SD 7616 SHEET No 3

DATE BEGUN: DEPTH: BEARING: U.T.M.

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC LOG	MARKER	DESCRIPTION	RECOVERY In	RECOVERY m	RECOVERY m Rec	RECOVERY %
	12.554	12.629	.075					Sandstone - F.G.				
							41 12.497					
								- - Top of Box 3 - -				
	12.629	12.894	.265					Sandstone - F.G., convoluted laminae silty at bass.				
						1.523 1.465						
	12.894	13.249	.355					Sandstone - Med. grey, few silty laminae				
	13.249	13.384	.135					Siltstone - highly broken, sandy at bass.				
	13.384	14.094	.710					Sandstone - Med. grained, few silty laminae, plainor bedded.				
							46 14.020					
26° at top	14.094	15.664	1.570			1.434 1.570		As above -				
							51 15.545					
16° at top	15.664	16.719	1.055					As above -				
						1.524 1.555		- - Top of Box 4 - -				
	16.719	17.219	.500					As above -				
							1.56 17.067					
	17.219	18.749	1.530			1.524 1.530		As above -				
							61 18.593					
18° at top	18.749	20.269	1.520			1.524 1.520		As above -				

Form 71-1150-RJ2

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD 7616 SHEET No 4

DATE BEGUN: DEPTH: BEARING: U.T.M.

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY In	RECOVERY m	RECOVERY m. Rec.	RECOVERY %
							66 20.117					
	20.269	20.819	.550					As above -				
								- Top of Box 15 - -				
	20.819	21.604	.785			1.573 1.670		As above -				
	21.604	21.739	.135					Siltstone - Massive bedded				
	21.739	21.839	.100					Sandstone - F.G., with silty laminae				
							71 21.640					
	21.839	22.474	.635					Sandstone - F.G. to VFG, silty laminae and silty bands, small scale cross beds.				
17° at base	22.474	22.704	.230					Sandstone - F.G. to M.G., with occational carbonaceous inclusions.				
	22.704	23.254	.550					Siltstone -				
	23.254	23.294	.040					Sandstone - M.G. -				
	23.294	23.364	.070			1.525 2.000		Siltstone -				
	23.364	23.729	.365					Sandstone - M.G., Plainer bedded.				
	23.729	23.799	.070					Silty claystone -				
	23.799	23.839	.040					Sandstone - mg, a few coaly inclusions.				
							76 23.165					

Form 71-1150-RJ2

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD 7616 SHEET No 5

DATE BEGUN: DEPTH: BEARING: U.T.M.

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC LOG	MARKER	DESCRIPTION	RECOVERY Int	RECOVERY m	RECOVERY m. Rec	RECOVERY %
17° at base	23.839	25.399	1.560			1.524 1.560		Sandstone - M.G., some cross beds.				
							81 24.689					
								- - - Top of Box 6 - - -				
	25.399	26.264	.865			1.524 1.495		As Above -				
	26.264	26.894	.630					Siltstone - Sandy, with V.F.G. Sandstone band near top.				
							86 26.213					
27° at base	26.894	27.694	.800			1.524 1.460		Siltstone - with a few sandy laminae				
	27.694	28.344	.650					Silty claystone -				
							91 27.787					
	28.344	28.900	0.556	.512				Claystone - Massive				
	28.900	29.040	.140	.129				Coal - D.1. banded, solid				
23°	29.040	29.095	.055	.051				Claystone - solid				
	29.095	29.160	0.065	.060			61.1	Core Loss Claystone.				
	29.160	29.310	.150	.138				Coal - D.1. banded, solid				
	29.310	29.440	0.130	.120				Core Loss Coal				
								- - - Top of Box 7 - - -				
	29.440	29.480	0.040	.037				Claystone - slightly sheared				
	29.480	29.560	0.080	.074				As above.				

Form 71-1150-R.02

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No. SD7616 SHEET No 6

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

AT: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m. Rec.	RECOVERY %
	29.560	29.660	0.100	.0921				Coal - d 11, solid				
	29.660	29.880	0.220	.203				Core loss coal				
	29.880	29.980	0.100	.0921		1.524		Claystone - broken				
						.530						
	29.980	30.005	0.025	.023				Coal - bony				
							96					
							29.261					
	30.005	30.025	0.020	.018				Claystone, broken				
	30.025	30.045	0.020	.018				Claystone - carbonaceous broken				
	30.045	30.085	0.040	.037				Coal - d 11-banded broken				
	30.085	30.125	0.040	.037		1.524		Claystone - broken				
						0.680						
	30.125	30.145	0.020	.018				Coal - d 11 banded				
	30.145	30.260	0.115	.106				Claystone				
	30.260	30.610	0.350	.322				Coal - d 11 metalic luster, high ash in a few places				
						6.1.1						
							101					
							30.785					
	30.610	30.850	0.240	.221				Coal - d 11, metalic luster				
	30.850	30.910	0.060	.055				Core loss coal				
	30.910	30.945	0.035	.032				Claystone - broken				
	30.945	31.080	0.135			1.524		Silty Claystone				
						1.660						
	31.080	32.330	1.250					Siltstone - sandy, with sandy bands in places				

Form 71-1150-RJ2

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD 7616 SHEET No 7

DATE BEGUN: DEPTH BEARING: UT.M

DATE FINISHED: ELEV. COLLAR TOTAL DEPTH COAL LICENSE

LAT.: HOLE ANGLE LOGGED BY CORE SIZE

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m. Rec.	RECOVERY %
							106 32.309					
	32.330	32.730	.400					Siltstone - sandy with some bioturbation near top. Few calcite fractures.				
18° .25m from top	32.730	38.380	.650			1.829 1.500		Sandstone - F.G. with a few fine silty laminate bands				
								---Top of Box 8---				
	33.380	33.830	.450					Sandstone - F.G. with a few silty laminae				
							112 34.138					
	33.830	34.090	.260					Siltstone - massive bedded.				
	34.090	34.925	.836					Siltstone - sandy with occational calcite fractures				
						1.524 1.470						
	34.925	35.020	.095					Sandstone - V.F.G. silty				
	35.020	35.300	.280					Sandstone - M.G. massive				
							117 35.662					
23° .2m from base	35.300	35.700	.400					As above				
	36.700	36.460	.760			1.524 1.540		Sandstone - V.F.G. silty convoluted laminate				
	36.460	36.840	.380					Sandstone - sandy convoluted laminae, highly broken at base.				
							122 37.186					

Form 71-1150-R02

DENSON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: DS 7616 SHEET No 8

DATE BEGUN: DEPTH: BEARING: U.T.M.

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY In	RECOVERY m	RECOVERY m. Rec.	RECOVERY %
	36.840	37.330	.490					As above -				
								--- Top of Box 9 ---				
						1.524 / 1.450						
	37.330	37.620	.290					As above -				
	37.620	38.290	.670					Silty claystone - a few carbonaceous inclusions.				
	38.290	38.460	0.170					Core loss rock				
							127 / 38.710					
	38.460	38.575	.115	.108				Coal - bright banded				
	38.575	38.615	.040	.038				Claystone -				
20°	38.615	38.665	.050	.047				Coal - bright banded				
	38.665	38.715	.050	.047				Claystone - carbonaceous				
	38.715	38.740	.025	.023				Coal - d.l. banded, 25° ash				
	38.740	38.840	0.100	.094				Claystone - carbanaceous				
	38.840	38.960	.120	.13				Coal - bright banded				
	38.960	39.040	.080	.075				Coal - d.l. metallic luster, 20% ash				
	39.040	39.820	0.780	.733				Claystone				
	39.820	39.900	.080	.075				Coal - d.l. banded				

Form 71-1150-RJ2

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD 7616 SHEET No 9

DATE BEGUN: DEPTH: BEARING: U.T.M.

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

AT: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick.	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m. Rec.	RECOVERY %
			.060					Claystone - Carbonaceous				
	39.900	39.980		.075								
			.020					Claystone - very carbonaceous with coal laminae				
						3.048						
	39.980	40.080	.100	.094		3.430		Coal - dull banded, highly broken				
	40.080	40.100	0.020	.019				Core loss coal				
	40.100	40.400	.300	.282				Claystone - very carbonaceous with coally laminae, sheared and pulverized				
	40.400	40.430	.030	.028				Coal - dull				
	40.430	40.465	.035	.033				Coal - dull				
	40.465	40.700	0.235	.221				Core loss, coal				
16°	40.700	41.590	.890					Siltstone, sandy, laminated				
							137 / 41.758					
	41.590	42.071	.480					Silty Claystone				
								top of box 10				
		42.291	.220			1.524 / 1.395		Silty Claystone				
	42.291	42.986	.695					Siltstone, Sandy laminae				
	42.986	43.099	.113					Core Loss				
							142 / 43.282					
	43.099	44.249	1.150					Sandstone; very fine grained with silty laminae & bands, convoluted.				
						1.524 / 1.540						

Form 71-1150-RJ2

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD 7616 SHEET No 10

DATE BEGUN: DEPTH: BEARING: U.T.M.

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY In	RECOVERY m	RECOVERY m. Rec.	RECOVERY %
	44.249	44.639	.390					Siltstone; Massive				
							147 / 44.806					
23° .55m from base		46.159	1.52			1.524 / 1.520		As above, with sandstone band near middle				
							152 / 46.330					
	46.159	46.499	.340					Silty Claystone				
								- - Top Box II - -				
	46.499	46.589	.090					Siltstone				
	46.589	46.759	.170					Sandstone, fine grained silty laminae.				
						1.524 / 1.600		(Siltstone)				
		47.119	.360					SST, Sandy laminae (Sandstone)				
10° .35m from base		47.659	.540					SS, V.F.G. planer bedded.				
		47.759	0.100(?)					SST				
							157 / 47.854					
		48.359	.700			1.524 / 1.370		SST, massive bedded. Several calcite frac.				
		49.029	.670					SS, v.fgr. graded f.gr. Some shale clasts.				
	49.029	49.183	.154					Core loss				
							162 / 49.378					

Form 71-1150-R.J.2

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD 7616 SHEET No 11

DATE BEGUN: DEPTH: BEARING: U.T.M.

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY In	RECOVERY m	RECOVERY m Rec	RECOVERY %
	49.183	49.446	.260					SS, m.g., core broken				
						1.524 / 1.365						
		50.126	.680					SS, m.g. relatively massive bedded.				
		50.551	.425					SST, massive bedded.				
		50.710	.159					Core loss				
							167 / 50.902					
	50.710	51.000	.290					Silty Claystone				
						1.524 / 1.080						
								- - Top of Box 12 - -				
22° above DD 172		51.790	.790					As above				
		52.00	.210					Core Loss				
							172 / 52.426					
	52.00	52.120	.120					(Claystone) Clys. Slightly sheared.				
	52.120	52.150	.030	.029				Coal, d.l.				
	52.150	52.540	.390	.380		1.524 / 0.750		Coal Loss				
		52.90	.400	.390				Clys, carbonaceous, slightly sheared with some coaly bands, broken				
		53.160	.260	.253				Missing as above				
Cos 13°												
		53.360	.200	.195				Silty clys, easily broken				
		53.560	.200	.195				Missing as above				
							177 / 53.950					

Form 71-3150-R.J.2

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD 7616 SHEET No 12

DATE BEGUN: DEPTH: BEARING: U.T.M.

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC LOG	MARKER	DESCRIPTION	RECOVERY In	RECOVERY m	RECOVERY m Rec	RECOVERY %
		53.830	.270	.268				As above				
	53.830	53.980	.150	.196				Coal, Dull metallic lustre				
						1.524						
		54.110	.130	.127		0.730		As above				
	54.110	54.460	.350	.341				Coal loss				
	54.460	54.640	.180	.175				Clys, V. Carbonaceous, broken				
							182					
							55.474					
	54.640	54.700	.060	.058				Coal, Dull, slightly sheared.				
		55.360	.660	.643				Coal loss, highly broken.				
	55.360	55.390	.030	.029		1.524		Silty Clys.				
						1.365						
12	55.390	55.920	.530					SST, Occas. sandy band.				
		56.665	.745					SS., F.g. Silty at top				
		56.758	.093					Core loss				
							187					
							56.998					
		56.883	.125					As above				
								- - Top Box 13 - -				
	56.883	57.063	0.180					Siltstone				
						1.524						
						1.505						
22° .15m from top	57.063	57.668	0.605					Sandstone, fine grained, silty laminae, highly convoluted.				
	57.668	58.263	0.595					Siltstone, slightly sandy				
							192					
							58.522					
		59.118	0.855					Siltstone, sandy				

Form 71-1150-R02

DENSON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD 7616 SHEET No 13

DATE BEGUN: DEPTH: BEARING: U.T.M

DATE FINISHED ELEV COLLAR TOTAL DEPTH COAL LICENSE

LAT. HOLE ANGLE LOGGED BY CORE SIZE

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY In	RECOVERY m	RECOVERY m Rec.	RECOVERY %
	59.118	59.859	0.740			1.524 1.595		Sandstone, very fine grained, silty laminae, slightly convoluted, broken at top w/siltstone bands.				
							197 60.046					
	59.859	61.163	1.305					Siltstone, sandy, Distrubed beds at base.				
						1.524 1.305		Planar coaly inclusion at base				
		61.382	.219					Core loss.				
								--- Top of Box 14 ---				
							202 61.570					
	61.382	61.962	0.580					Siltstone, sandy, convoluted at top				
	61.962	62.092	0.130					Claystone, silty, carb, w/coaly inclusions broken, slightly sheared.				
						1.624 1.410						
	62.092	62.382	0.290					Siltstone w/sandy laminae				
34° at base												
	62.382	62.462	0.080					Claystone, carb, thin coaly laminae, broken				
		62.792	0.330					Silty claystone, slightly carb				
		62.906	.114					Core Loss				
							207 63.094					
	62.906	64.071	1.165			1.524 1.165		Siltstone, few laminae				

Form 71-1150-R32

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD 7616 SHEET No 14

DATE BEGUN: DEPTH: BEARING: U.T.M

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

AT: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESCL LOG	MARKER	DESCRIPTION	RECOVERY In	RECOVERY m	RECOVERY m Rec	RECOVERY %
		64.43	.359					Core Loss				
							212					
							64.618					
		65.580	1.150					As above				
								- - Top of Box 15 - -				
						1.524						
						1.515						
	65.580	65.945	0.365					Claystone, silty, massive				
							217					
							66.142					
	66.945	67.195	1.260					Claystone, silty, carb. with few coaly laminae.				
						1.524						
						1.485						
	67.195	67.430	0.235					Sandstone, fine grain, silty laminae, slightly convoluted.				
		67.469	.039					Core Loss				
							222					
							67.666					
20° 0.6m from top		68.999	1.530			1.524		Sandstone, fine-med. grained, massive, becoming med. grained at base, solid core.				
						1.530						
							227					
							69.190					
26° at base		69.864	0.865					As above				
						1.524						
						1.380						

Form 71-DSD-RJ2

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD 7616 SHEET No 15

DATE BEGUN: DEPTH: BEARING: U.T.M:

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY In	RECOVERY m.	RECOVERY m. Rec.	RECOVERY %
								- - Top of Box 16 - -				
		70.379	0.515					As above.				
		70.523	.144					Core loss.				
							232					
							70.714					
		72.068	1.545			1.524		As above, w/large scale cross bedding.				
						1.545						
							237					
							72.238					
		72.688	0.620					As above w/siltstone clasts				
	72.688	73.088	0.400					Sandstone, fine grained, silty				
						1.524						
						1.640						
	73.088	73.708	0.620					Siltstone, massive				
							242					
							73.762					
		74.358	0.650					As above				
						1.219						
						1.405						
								- - Top of Box 17 - -				
20°	74.358	75.113	0.755					Silty Claystone, similar to above.				
							246					
							74.981					
	75.113	76.421	1.308			1.829		As above				
						1.620						
							252					
							76.810					

Form 71-1150-R02

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No. SD 7616 SHEET No 16

DATE BEGUN: DEPTH: BEARING: UT.M

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m. Rec.	RECOVERY %
	76.421	77.155	.734					As above w/Sandy bands				
						1.524						
						1.580						
	77.155	77.925	0.770					Claystone, silty, carb.				
							257					
							78.334					
	77.925	77.960	0.085					Claystone, carb, coal stringers				
	77.96	78.04	0.080	.076				Silty claystone, carb. at base				
						1.524						
Cos 19°					5.	0.905						
	78.040	78.090	0.050	.047				Coal, d.l.l banded, solid				
	78.090	78.170	0.080	0.76				Coal, d.l.l-bright, high ash at base				
								- - Top of Box 18 - -				
	78.170	78.320	0.150	.142				Coal, d.l.l banded, broken				
	78.320	78.920	0.600	.567				Coal loss				
Cos. 19°	78.920	79.020	0.100	.095				Coal, boney				
	79.020	79.040	0.020	.019				Claystone, Carb. as above				
	79.040	79.240	0.200	.189				Missing				
	79.240	79.325	0.085	.080				Coal, d.l.l banded, slightly sheared. Broken.				
	79.325	79.980	.655	.619				Coas loss				
	79.980	80.120	0.140	.132				Coal, d.l.l banded, solid				
24°	80.120	80.205	0.165	.156				Silty Claystone				
							262					
							79.798					

Form 71-1150-RJ2

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD 7616 SHEET No 17

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	THICKNESS Thick	THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m. Rec.	RECOVERY %
	80.285	80.595	0.310	.293				Coal, dull, mettalic lustre, solid				
	80.595	80.795	0.170	.161				Coal, dull banded, broken, slightly sheared,				
	80.795	80.830	0.035	.033		1.524 / 0.825		Claystone, carb.				
	80.830	80.910	0.080	.076				Coal, dull, pulverized				
	80.910	81.000	0.090	.085				Coal Loss				
	81.000	81.230	0.230	.217				Claystone, carb., solid.				
							267 / 81.382					
	81.230	81.480	0.250	.236				Silty claystone, occasional coaly laminae				
	81.480	81.585	0.105	.099				As above, Carb.				
	81.585	81.700	0.115	.109		1.524 / 1.260		Missing				
18° at top	81.700	82.165	0.465					Sandstone, fine grained w/silty laminae, convoluted.				
	82.165	82.605	0.440					Siltstone, sandy, broken				
		82.754	.149					Core Loss				
							272 / 82.906					
22° .25m from base		83.244	0.490					As above.				
								- - Top of Box 19 - -				
		83.544	0.300			1.524 / 1.480		As above.				
	83.544	84.234	0.690					Sandstone, fine grained, silty laminae				
							277 / 84.430					
	84.234	85.664	1.430					Siltstone, sandy, planar laminae joint at middle U.C.A. = 75°				

Form 71-1150-R02

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD 7616 SHEET No 18

DATE BEGUN: DEPTH: BEARING: U.T.M.

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int	RECOVERY m	RECOVERY m Rec	RECOVERY %
	85.664	85.764	0.100			1.524 / 1.560		Sandstone, Fine grained.				
	85.764	85.884	0.120				282 / 85.954	Siltstone				
37°	85.884	87.484	1.600					Siltstone, Massive, Sandy at base.				
								---- Top of Box 20 ----				
18°	87.484	87.939	0.455			3.048 / 3.115		Sandstone, Fine grained, Silty bands.				
	87.939	88.999	1.060					Siltstone, Planar Laminae.				
							292 / 89.002					
		89.979	0.980					Siltstone, Massive, Grading to sandstone at base.				
	89.979	90.514	0.335					Sandstone, Very fine grained, Silty laminae.				
						3.048 / 2.940						
		90.784	0.270					Sandstone, Fine grained disturbed bedding, Mud clasts.				
	90.784	90.909	0.125					Siltstone				
	90.909	91.759	0.850					Sandstone, Fine grained, Mud clasts.				
								---- Top of Box 21 ----				
		91.939	0.180					Sandstone, Very fine grained, massive				
		92.047	.108					Core loss				

Form 21-1150-RJ2

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD 7616 SHEET No 19

DATE BEGUN: DEPTH: BEARING: U.T.M.

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick.	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m. Rec.	RECOVERY %
							302					
							92.050					
	92.047	92.377	0.330					As above.				
	92.377	92.997	0.620					Siltstone + Med. gray sandstone, Interbedded, Irregular bedding.				
						1.524						
						1.655						
	92.997	93.702	0.705					Sandstone, very fine grained, silty.				
							307					
							93.574					
21° at top		93.767	0.065					Sandstone, very fine grained, grading into siltstone.				
						1.524						
						0.945						
	93.767	94.647	0.880					Siltstone w/sandy bands.				
		95.217	.570					Core Loss				
							312					
							95.098					
24° 0.6m in from top	95.217	96.224	1.007					Sandstone, very fine grained, silty				
						1.524						
						1.590						
								-- Top of Box 22 --				
		96.784	0.560					As above.				
							317					
							96.622					
		98.269	1.485			1.524		Sandstone, very fine grained, massive.				
						1.485						

Form 71-1150-R.J.2

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD 7616 SHEET No 20

DATE BEGUN: DEPTH: BEARING: U.T.M.

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m	RECOVERY m. Rec.	RECOVERY %
							322 / 98.146					
	98.269	99.689	1.420			1.524 / 1.540		As above w/ silty laminae.				
	99.689	99.809	0.120					Siltstone, massive.				
							327 / 99.670					
		100.48	0.675			1.524 / 1.575		Siltstone, sandy, planar laminate.				
								---Top of Box 23---				
22°	100.485	101.338	0.849					Sandstone, very fine grained.				
							332 / 101.194					
		102.85	1.524			1.524 / 1.620		As above, core broken at base.				
							337 / 102.718					
		104.31	1.460			1.524 / 1.460		As above.				
							342 / 104.242					
		104.57	0.265					As above.				
								--- Top of Box 24 ---				
17°		105.882	1.310			1.524 / 1.565		As above, Laminated, silty.				

Form 71-1150-R32

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No. SD 7616 SHEET No 21

DATE BEGUN: DEPTH: BEARING: U.T.M.

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE

LAT: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	THICKNESS Thick	THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int	RECOVERY m	RECOVERY m-Rec	RECOVERY %
							847					
							05.760					
	105.882	107.372	1.490			1.524		As above.				
						1.490						
							852					
							07.290					
		108.897	1.525			1.524		As above, calcite filled fracture at base.				
						1.525		Parallel to bedding plane.				
							857					
							08.814					
								---Top of Box 25---				
19° at top		109.607	0.710					Sandstone, very fine grained w/siltstone interbeds.				
		110.227	0.620			1.524		Sandstone, fine grained.				
						1.510						
	110.227	110.407	0.180					Siltstone				
							862					
							10.338					
		111.947	1.540			1.524		Siltstone, carb. zones, sandy zones, laminated				
						1.540						
							867					
							11.864					
		113.226	1.279					Siltstone, sandy, massive.				
								---Top of Box 26---				
	113.226	113.471	0.245			1.524		Sandstone, very fine grained, silty.				
						1.570						
							872					
							13.386					

Form 71-1150-RJ2

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD 7616 SHEET No 22

DATE BEGUN: DEPTH: BEARING: U.T.M.

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC LOG	MARKER	DESCRIPTION	RECOVERY Int	RECOVERY m	RECOVERY m Rec	RECOVERY %
29° at top	113.471	114.030	0.559					Siltstone, Massive				
	114.030	114.400	0.370	.341				Silty claystone, carb. broken.				
						1.524 / 1.575						
	114.400	114.520	0.120	.111				Coal, D.11 banded, solid				
	114.520	114.740	0.220	.203				Coal, as above.				
	114.740	114.995	0.255	.235				Coal, D.11, solid.				
Cos. 23°							377 / 114.910					
	114.995	115.075	0.080	.074				Coal, d.11.				
	115.075	115.190	0.105	.097				Claystone, Carb.				
	115.190	115.280	0.090	.088				Coal, D.11, Metallic lustre.				
	115.280	115.395	0.115	.106				Silty Claystone.				
	115.395	115.420	0.025	.023				Coal, D.11				
	115.420	115.440	0.020	.018				Coal loss.				
	115.440	115.510	0.070	.064		1.524 / 0.800		Claystone				
	115.510	116.200	0.690	.635				Claystone Loss.				
	116.200	116.220	0.020	.018				Coal, Boney, Sheared.				
	116.220	116.330	0.110	.101				Coal, d.11, pulverized.				

Form 71-1150 RJ2

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD 7616 SHEET No 23

DATE BEGUN: DEPTH: BEARING: U.T.M.

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC LOG	MARKER	DESCRIPTION	RECOVERY Int	RECOVERY m	RECOVERY m. Rec	RECOVERY %
	116.330	116.380	0.050	.046				Coal, dull banded pulverized.				
	116.380	116.450	0.070	.064				Claystone, Carb. pulverized.				
	116.450	116.800	0.350	.322				Claystone missing.				
	116.800	116.865	0.065	.060				Coal, d.ll. metallic lustre.				
	116.865	117.150	0.285	.262				Coal missing				
							382 116.43					
	117.150	17.25	0.101	.093				Claystone, Carb.				
	117.251	17.359	0.108	.099				Coal, stoney, broken.				
	117.359	17.568	0.209	.196		1.524 0.970		Claystone, Carb. broken, slightly sheared pulverized at base.				
	117.568	17.683	0.115	.108				Silty Claystone, Solid.				
								Top of Box 27				
17° at base	117.683	17.849	0.166	0.159				Silty claystone.				
							387 17.953					
	17.849	17.900	0.051	0.049				Claystone, broken.				
	17.900	18.050	0.150	0.143				Coal, dull metallic lustre, broken.				
	118.050	18.200	0.150	0.143				Coal missing.				

Form 71-1150-R.J.2

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD 7616 SHEET No 24

DATE BEGUN: DEPTH: BEARING: U.T.M

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int	RECOVERY m	RECOVERY m Rec	RECOVERY %
	118.200	118.220	0.020	0.019		1.524		Claystone, Carb.				
						1.240						
	118.220	118.850	0.630	0.580				Sandstone, Carb., Fine - Med. Grained, Massive, Sharp contact at base.				
	118.850	119.220	0.370	0.341				Siltstone, Laminated.				
							392					
							119.492					
	119.220	119.800	0.580	0.534				Silty Claystone, Massive				
	119.800	119.880	0.080	0.074				Coal, dull, metallic lustre, sheared slightly.				
						1.524						
						1.580						
Cos 23°												
	119.880	119.900	0.020	0.018				Coal, Boney, Sheared, Broken.				
	119.900	120.140	0.240	0.221				Coal missing.				
	120.140	120.200	0.060	0.055				Coal, Dull.				
	120.200	120.340	0.140	0.129				Claystone, Carb.				
							397					
							121.006					
		120.400	0.060					As above.				
		120.995	0.595			1.524		Silty, Claystone, Carb.				
						1.405						
23°	120.995	121.720	0.725					Sandstone, Fine grained, Massive,				
	121.720	121.745	0.025					Siltstone				

Form 71-1159-RJ2

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD 7616 SHEET No 25

DATE BEGUN: DEPTH: BEARING: U.T.M.

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int	RECOVERY m	RECOVERY m-Rec	RECOVERY %
		121.864	.119					Missing - as above.				
							402					
							122.530					
	121.864	124.919	.055					Silty claystone				
								- - Top of Box 28 - -				
		123.049	1.130			1.524		*Silty claystone - massive at base. Broken, sheared and very carbonaceous.				
						1.205						
		123.210	0.161					Missing -				
		123.400	0.190					Claystone - Coaly				
							407					
							124.054					
	123.400	123.450	0.050					Claystone - Carbonaceous, pulverized				
	123.450	123.500	0.050					Coal - Bright-banded.				
	123.500	123.550	0.050					Claystone - very carb.				
	123.550	123.580	0.030					Coal - Stoney				
	123.580	123.700	0.120					Silty claystone - carbonaceous				
	123.700	123.850	0.150			1.524		Silty Claystone - Occasional coaly inclusion.				
						1.380						
18° 0.5m from base.		124.850	1.000					Siltstone - sandy in places, relatively massive.				
		124.930	0.080					Silty claystone - carbonaceous				

Form 71-1150-RJ2

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD 7616 SHEET No 26

DATE BEGUN: DEPTH: BEARING: U.T.M:

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m	RECOVERY m. Rec.	RECOVERY %
							412 / 126.578					
		125.070	0.140				*	Silty claystone, carbonaceous, highly broken.				
		125.140	0.070					Missing				
	125.140	125.520	0.380					Siltstone - Grading into sandstone, massive				
	125.520	125.980	0.460			1.524 / 1.450		Sandstone - F.G., Planar laminated.				
	125.980	126.260	0.280					Siltstone - Sandy.				
	126.260	126.450	0.190					Sandstone - F.G., Occasional Laminae				
							417 / 127.102					
		126.565	0.115					As above.				
								- - - Top of Box 29 - - -				
	126.565	127.790	1.225			1.524 / 1.505		Siltstone - Sandy, massive.				
	127.790	127.955	0.165					Sandstone - F.G. Massive				
							422 / 128.626					
		128.315	0.360					As above - Laminated.				
19° at top	128.315	129.505	1.190			1.524 / 1.550		Siltstone - Laminated, banded in places.				

Form 71-1150-R.J.2

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD 7616 SHEET No 27

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int	RECOVERY m	RECOVERY m. Rec	RECOVERY %
							427					
							130.150					
		30.885	1.380					Siltstone - Massive				
		30.995	0.070					Missing				
						1.524 / 1.450		--- Top of Box 30 ; ;				
		31.025	0.070					As above.				
							432					
							131.674					
		31.380	0.355					As above.				
	131.380	131.420	0.040					Silty claystone, carb.				
	131.420	131.455	0.035					Coal, boney, coaly laminae.				
	131.455	131.565	0.110			1.524 / 1.120		Silty claystone, Carb. as above.				
	131.565	131.800	0.235					Missing				
	131.800	131.830	0.030					Coal, Dull banded, metallic lustre.				
	131.830	141.860	0.030					Missing				
	131.860	132.010	0.150					Claystone, Carb. Broken, as above.				
		132.300	0.190					Missing.				
	132.300	132.700	0.400					Claystone silty carb.				

Form 71-1150-R02

DENSON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No. SD 7616 SHEET No 28

DATE BEGUN: DEPTH: BEARING: U.T.M.

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int	RECOVERY m	RECOVERY m. Rec.	RECOVERY %
							437 133.198					
14° .65m from base.		136.865	1.165			1.524 1.575		Silty Claystone, Massive				
	133.865	134.275	0.410				442 134.722	Siltstone, Massive				
		135.580	1.305			1.524 1.550		As above, sandy intervals. — Top of Box 31 —				
	135.580	135.825	0.245				447 136.246	Sandstone, very fine grained, massive.				
	135.825	137.345	1.520			1.524 1.520	452 137.770	Sandstone, Fine grained, few laminae.				
10° .28m from top		138.680	1.335			1.524 1.540		Sandstone, Med. grained, massive few pebbles at base.				
	138.680	138.885	0.205				457 139.294	Conglomerate, small pebbles, med. grained sandstone matrix, bimodal, pebbles well rounded, white, grey - dark grey CHERT pebbles.				

Form 71-1150 R02

DENSON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD 7616 SHEET No 29

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	THICKNESS Thick	THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int	RECOVERY m	RECOVERY m. Rec.	RECOVERY %
		138.960	0.075					As above.				
	138.960	139.070	0.110					Sandstone, Med. Grained, Massive, Clean.				
	139.070	139.340	0.270					Conglomerate, as above, w/some dark grey argyllaceous pebbles.				
						1.524 / 1.505						
	139.340	39.420	0.080					Sandstone, Med. Grained.				
	139.420	39.810	0.390					Conglomerate as above.				
								- - Top of Box 32 - -				
	139.810	40.390	0.580					Conglomerate, as above, with less matrix (15%) Medium pebble.				
							462 / 40.818					
		41.585	1.195			1.219 / 1.195		As above.				
							466 / 42.037					
		43.080	1.495			1.524 / 1.495		As above, w/small bright green granule at base				
							471 / 43.561					
		43.920	0.840					As above.				
						1.524 / 1.595		- - Top of Box 33 - -				
		44.675	0.755					As above, highly broken at base.				

Form 71-1150-R.J.2

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD 7616 SHEET No 30

DATE BEGUN: DEPTH: BEARING: U.T.M

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int	RECOVERY m	RECOVERY m. Rec	RECOVERY %
							476 145.085					
		146.275	1.600			1.524 1.600		As above, containing large pebbles up to 0.060 m in Diameter, w/ocoasional pink QTZ pebble. Broken at base.				
							481 146.609					
	146.275	147.830	1.555			1.524 1.555		As above.				
							486 148.133					
		148.100	0.270					As above.				
						1.219 1.560		- - Top of Box 34 - -				
		149.390	1.290					Conglomerate, small - med. pebble, 20% med.grained matrix, bimodal rounded pebbles, white, grey and dark, grey + grey-green chart, Qtz. pink pebbles occasionally.				
							491 149.352					
		150.825	1.435			2.134 1.435		As above.				
							497 151.486					
		152.345	1.520					As above, broken at base.				
						1.524 1.700		- - Top of Box 35 - -				

Form 71 1150 R.02

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD 7616 SHEET No 31

DATE BEGUN: DEPTH: BEARING: U.T.M.

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int	RECOVERY m	RECOVERY m Rec	RECOVERY %
	152.845	152.525	0.180					As above, broken.				
							507					
							153.010					
		154.140	1.615					As above.				
							507					
							154.534					
		154.455	0.315					As above.				
18° at base	154.455	155.520	0.065					Sandstone, med. grained, massive.				
	155.520	155.695	1.165					Conglomerate, as above.				
							512					
							156.058					
		156.395	0.710					As above.				
							514					
							156.667					
		156.465	0.070					As above.				
								Top of Box 36				
	156.465	156.745	0.280					As above, small pebbles.				
		157.035	0.290					As above.				
							517					
							157.582					
		158.375	1.340					As above, Med. pebble.				

Form 71-1159-RJ2

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No. SD 7616 SHEET No 32

DATE BEGUN: DEPTH: BEARING: U.T.M.:

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int	RECOVERY m	RECOVERY m Rec	RECOVERY %
							521 168.801					
		158.570	0.195					As above.				
		158.680	0.110					Missing				
							522 159.106					
		159.630	0.950					As above.				
18° at base.	159.630	159.685	0.055					Sandstone, Med. grained, massive.				
		160.220	0.535					As above.				
							527 160.630					
		160.410	0.190					As above, small pebbles w/grit bimodal sorting poor.				
	160.410	160.590	0.180					Sandstone, med. grained, planar beded clean.				
	160.590	160.840	0.250					Conglomerate, as above, good bimodal sorting, med. pebble.				
								- - Top of Box 37 - -				
		161.800	0.960					As above.				
							532 162.154					
		162.360	0.560					As above.				
	162.360	163.005	0.645					Conglomerate, grit pebble size, poor bimodal sorting.				

Form 71-1150-R02

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD7616 SHEET No 33

DATE BEGUN: DEPTH: BEARING: U.T.M

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE

LAT.: HOLE ANGLE LOGGED BY: CORE SIZE:

B.C.A	UNIT From	UNIT To	UNIT Thic	UNIT True	COAL SHEET	DESC LOG	MARKER	DESCRIPTION	RECOVERY Int	RECOVERY m	RECOVERY m Rec	RECOVERY %
20° at base.		163.155	0.150					Conglomerate, small pebble bimodal planar, sharp contact at base. As above.				
	163.155	163.395	0.240					Silty claystone.				
							537 163.678					
		164.835	1.440					Silty Claystone, massive.				
		165.035	0.200					As above, carb., sheared.				
								- - Top of Box 38 - -				
							542 165.202					
	165.035	165.445	0.410			1.524 1.260		Claystone, carb., w/ coal laminae.				
		166.295	0.850					Silty claystone, irregular contact at base.				
							547 166.726					
	166.295	166.725	0.430					Conglomerate, med. pebble, matrix fine grained sandstone - med. grained. Good spericity, white, grey + grey-green chart, sharp contact at base.				
49° 1 m. from base.	166.725	167.175	0.450					Sandstone med. grained, clean, massive, w/occasional pebbles.				
	167.175	167.290	0.115					Silty claystone, sheared and broken.				
	167.290	167.490	0.200			2.438 2.630		Conglomerate, as above, med. pebble 40% matrix.				

Form 71-1150-R02

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No. SD 7616 SHEET No 34

DATE BEGUN: DEPTH: BEARING: U.T.M.

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY In	RECOVERY m	RECOVERY m. Rec.	RECOVERY %
	167.490	167.800	0.310					Silty claystone, sheared, broken massive.				
		168.170	0.370					As above.				
	168.170	168.850	0.680					Conglomerate as above.				
	168.850	168.890	0.040					Silty Claystone.				
								——— Top of Box 39 ———				
		168.925	0.035					As above.				
							555					
							169.164					
	168.925	170.635	1.710			1.219		Conglomerate as above, med. pebble, occasionally broken.				
						1.710						
							559					
							170.383					
		171.210	0.575					As above, w/coal inclusion at centre, few large white qtz. pebbles at base.				
24°	171.210	171.960	0.750					Silty claystone, massive, carb.				
	171.960	172.120	0.160					Conglomerate, as above, highly broken.				
						3.658						
						3.615						
		172.515	0.395					As above, some large pebbles.				
	172.515	172.755	0.240					Sandstone, fine grained, frequent coal inclusions.				
	172.755	172.910	0.155					Claystone, Carb. w/coaly laminae.				

Form 71-1150-RJ2

DENSO COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD 7616 SHEET No 35

DATE BEGUN: DEPTH: BEARING: U.T.M.

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	Depth From	Depth To	Thickness Thick	Thickness True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY In	RECOVERY m	RECOVERY m. Rec	RECOVERY %
								- - Top of Box 40 - -				
	172.910	172.930	0.020					Sandstone, fine grained, carb.				
	172.930	173.040	0.110	.106				Claystone, carb. pulverized.				
	173.04	173.07	0.030	.029				Coal, sheared.				
	173.07	173.20	0.130	.125				Coal missing				
	173.20	173.27	0.070	.067				Sandstone, fine grained carb.				
cos 16°								Broken.				
	173.27	173.38	0.110	.106				Coal, d.ll, broken.				
	173.38	173.91	0.530	.509				Coal missing.				
							571					
						3.1.1	174.041					
	173.91	174.10	0.190	.183				Coal, solid, d.ll bright.				
	174.10	174.17	0.070	.067				Claystone, carb., coaly laminae.				
	174.17	174.24	0.070	.067				Core loss				
	174.24	174.33	0.090	.087				Coal, d.ll banded, metallic lustre				
	174.33	174.47	0.140	.135				Coal d.ll, metallic lustre.				
	174.47	174.71	0.240	.231				Coal, d.ll banded.				
	174.71	174.76	0.050	.048				Coal, d.ll slightly sheared.				
	174.76	174.84	0.080	.077				Coal, d.ll banded.				
	174.84	175.06	0.220	.211		1.524 1.080		Coal, d.ll, metallic lustre				
	175.06	175.76	0.700	.673				coal loss.				

Form 71-3150-R.J.2

DENSON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No. SD 7616 SHEET No 36

DATE BEGUN: DEPTH: BEARING: U.T.M.

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY In	RECOVERY m	RECOVERY m Rec.	RECOVERY %
	175.76	175.94	0.180	.73				Claystone				
							576					
							75.56					
	175.94	176.20	.260	.250				Coal Missing				
	176.20	176.35	0.150	.144				Silty claystone, sheared.				
	176.350	176.625	0.275			1.524		Sandstone, fine grained. Massive.				
						0.675						
	176.625	176.875	0.250					Siltstone, sandy broken near base.				
							581					
							77.089					
8°	176.875	77.395	0.520					Silty claystone, massive.				
.23 m												
from	top.	78.095	0.700					Claystone, carb., pulverized.				
						1.524						
						1.780						
		78.545	0.450					Silty claystone.				
								---Top of Box 41---				
		78.595	0.050					As above, broken				
							586					
							78.613					
		79.045	0.450					Silty claystone.				
						1.524						
						1.630						
		80.165	1.120					As above, friable, broken in places.				
							591					
							80.137					

Form 71 1150 R32

DENSON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD 7616 SHEET No 37

DATE BEGUN: DEPTH: BEARING: U.T.M

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC LOG	MARKER	DESCRIPTION	RECOVERY In	RECOVERY m	RECOVERY m Rec	RECOVERY %
	180.165	80.915	0.750					As above.				
						1.524 / 1.435						
		81.030	0.115					As above, pulverized.				
		81.600	0.570					As above.				
							596 / 181.661					
		82.770	1.170					As above.				
								---Top of Box 42---				
Cos -10°		82.800	0.030	.029		1.524 / 1.230		Silty Claystone, Carb.				
	182.800	82.830	0.030	.029				Coal, dull, sheared.				
	182.830	83.300	0.470	.463				Coal missing.				
							601 / 183.186					
		84.270	0.970	.955				Silty claystone, sheared carb.				
						1.524 / 1.350						
	184.270	84.650	0.380					Sandstone, very fine grained.				
							606 / 184.709					
11° at top		86.180	1.530			1.829 / 1.530		Sandstone, very fine grained w/silty bands.				
							612 / 186.538					
	186.180	86.730	0.550					Sandstone, very fine grained. Laminated.				
	186.730	87.580	0.850			1.524 / 1.630		Siltstone, laminated.				

Form 71-1150-RJ2

DENSON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD 7616 SHEET No 38

DATE BEGUN: DEPTH: BEARING: U.T.M.

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	THICKNESS Thick	THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int	RECOVERY m	RECOVERY m. Rec	RECOVERY %
								- - Top of Box 43 - -				
	187.580	87.810	0.230					Sandstone, fine grained, laminated.				
							617 / 188.062					
14° .15 m from top		88.080	0.270					As above, disturbed bedding at base.				
	188.080	88.375	0.295					Siltstone				
						1.524 / 1.470						
	188.375	88.525	0.150					Sandstone, very fine grained, silty.				
	188.525	88.740	0.215					Siltstone, sandy				
	188.740	89.280	0.540					Sandstone, fine grained w/cross beds + disturbed bedding.				
							622 / 189.586					
		90.135	0.855					As above.				
	190.135	90.660	0.525					As above massive.				
		91.660	1.00			3.048 / 2.900		As above.				
								- - Top of Box 44 - -				
		192.180	0.520					Sandstone, fine grained, convoluted.				
							632 / 192.634					

Form 71-1150-RJ2

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No. SD 7616 SHEET No. 39

DATE BEGUN: DEPTH: BEARING: U.T.M.

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY In	RECOVERY m	RECOVERY m Rec	RECOVERY %
		93.665	1.485			1.524 / 1.485		Sandstone very fine grained, silty laminated, with silty bands.				
							637 / 194.158					
	193.665	95.285	1.620			1.524 / 1.620		Siltstone, sandy, laminated, similar to above				
		95.380	0.095					Core loss				
							642 / 195.682					
9° .23 m from top.		96.025	0.645			1.524 / 1.555		Siltstone bedded.				
								- - Top of Box 45 - -				
	196.025	96.935	0.910					Siltstone, sandy, laminated & bonded				
							647 / 197.206					
	196.935	98.285	1.350					As above.				
	198.285	98.48	0.195			1.524 / 1.545		Sandstone, fine grained, silty.				
							652 / 198.730					
5° .15 m from base.	198.48	99.875	1.395			1.524 / 1.395		Siltstone, sandy, laminated.				
							657 / 200.254					
	199.875	100.410	0.535					Siltstone, sandy, as above.				

Form 71-1150-R.J.2

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No: SD 7616 SHEET No 40

DATE BEGUN: DEPTH: BEARING: U.T.M

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY In	RECOVERY m	RECOVERY m. Rec.	RECOVERY %
						1.524 / 1.550		--Top of Box 46--				
	200.410	201.240	0.830					Sandstone, very fine grained w/silty laminae.				
	201.240	201.425	0.185					Siltstone w/ sandy laminae.				
							662 / 201.778					
	201.425	201.775	0.350					As above.				
12°	201.775	203.050	1.275			1.524 / 1.625		Sandstone, fine grained w/ silty convoluted laminae.				
							667 / 203.302					
	203.050	204.680	1.630			1.524 / 1.630		As above, broken at top and base.				
							672 / 204.826					
								--Top of Box 47--				
	204.680	204.980	0.300					Siltstone, sandy, slightly convoluted.				
	204.980	205.00	0.020					Silty claystone, sheared, carb.				
Cos 10°	205.00	205.035	0.035	034		2.1		Coal, dull banded, broken.				
	205.035	205.065	0.030	0295		2.2		Coal, dull, broken.				
	205.065	205.135	0.070	069				Claystone, carb., sheared w/ coal laminae, broken.				

Form 71-1150-RJ2

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No SD 7616 SHEET No 41

DATE BEGUN: DEPTH: BEARING: U.T.M

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A. UNIT From	To	UNIT THICKNESS Thick	True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY In	m	m. Rec	%
205.135	205.165	0.030	.0295				As above, pulverized.				
205.165	205.185	0.020	.020				Coal, dull banded, pulverized.				
205.185	205.250	0.065	.064				Coal, dull banded.				
205.250	205.280	0.030	.0295				Coal, dull banded.				
205.280	205.410	0.130	.128				Coal, dull banded.				
205.410	205.435	0.025	.0246				Coal, boney, w/ bright laminae.				
205.435	205.500	0.065	.064				Coal, dull banded.				
205.500	205.750	0.250	.246		1.524 / 1.345		Coal, dull, metallic lustre, broken.				
205.750	205.775	0.025	.0246				Coal, boney, broken.				
205.775	206.025	0.250	.246				Coal, dull banded, slightly sheared, broken.				
206.025	206.350	0.325	.320			677 / 206.350	Coal loss				
206.350	206.520	0.170	.167	2. .1 / 2. .2			Coal, dull, sheared, metallic lustre.				
206.52	206.572	0.055	.054				As above, pulverized.				
206.572	206.615	0.040	.039				Coal, dull, metallic lustre.				

Form 71-1150-RJ2

DENISON COAL LIMITED . DIAMOND DRILL CORE LOG

HOLE No. SD 7616 SHEET No 42

DATE BEGUN: DEPTH: BEARING: U.T.M.

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	THICKNESS Thick	THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY In	RECOVERY m.	RECOVERY m. Rec.	RECOVERY %
	206.615	206.645	0.030	.0295				Silty claystone, carb.				
	206.645	206.745	0.100	.098		1.524 / 0.915		Coal, boney, pulverized.				
	206.745	206.915	0.170	.167				Coal, dull, metallic lustre, pulverized.				
	206.915	207.150	0.235	.231				Coal, dull banded, sheared, pulverized.				
	207.150	207.300	0.150	.148				Coal loss.				
	207.300	207.414	0.115	.113				Siltstone, laminated.				
							682 / 207.874					
8° .15 m from base.	207.414	207.684	0.270	.267				As above.				
	207.684	208.139	0.455	.450				Sandstone, fine grained, silty laminae, Hairline calcite fracture at middle, U.C.A. = 85°				
						1.524 / 1.575						
	208.139	208.669	0.530	.525				Siltstone, w/ carb. zone near top. Sandy near base.				
								--- Top of Box 48 ---				
7°	208.669	208.989	0.320	.317				Sandstone, very fine grained, w/silty laminae.				
							687 / 209.398					

Form 71-1150-R02

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No. SD 7616 SHEET No. 43

DATE BEGUN: DEPTH: BEARING: U.T.M.

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m.	RECOVERY m. Rec.	RECOVERY %
	208.989	209.939	0.950	.941				Siltstone, sandy, laminated.				
	209.939	210.029	0.090	.089				Silty claystone, carb. at base.				
Cos 8°	210.029	210.079	0.050	.045		1.524 / 1.420		Claystone, carb.				
	210.079	210.200	0.121	.120				Claystone loss.				
	210.200	210.260	0.060	.059				Coal, dull, sheared, broken.				
	210.260	210.530	0.270	.267		1.1		Coal, dull, metallic lustre.				
							692 / 210.922					
	210.530	210.855	0.325	.322				As above.				
	210.855	210.875	0.020	.020				Coal, boney.				
	210.875	211.075	0.200	.198				Coal, dull, slightly sheared.				
	211.075	211.255	0.180	.178		1.524 / 1.370		Coal, dull banded, metallic luster.				
	211.255	211.740	0.485	.480				Coal, dull, metallic lustre.				
	211.74	212.040	0.300	.297				Coal loss.				
	212.040	212.200	0.160	.158				Sandstone, very fine grained.				
							697 / 212.416					
	212.200	212.625	0.425					Siltstone, sandy, laminated.				

Form 71-1150-R02

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No. SD 7616 SHEET No. 44

DATE BEGUN: DEPTH: BEARING: U.T.M.

DATE FINISHED: ELEV. COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY In	RECOVERY m	RECOVERY m-Rec	RECOVERY %
8°	212.625	212.865	0.240					Sandstone, fine grained, laminated.				
								- - Top of Box 49 - -				
						1.524 1.045						
	212.865	213.085	0.220					Siltstone, slightly carb., massive.				
	213.085	213.170	0.085					Claystone, friable, distinctive light grey, possible kaolin.				
	213.170	213.245	0.075					Siltstone, massive.				
	213.245	213.822	0.577					Core loss.				
							702 213.970					
	213.822	215.472	1.650					Sandstone, med. grained, massive, broken at base w/ several calcite fractures, clean.				
18° at top												
	215.472	216.992	1.520			3.048 3.170		As above, w/cavities in calcite fractures J.C.B. = 90°				
							712 217.013					
	216.992	217.409	0.415					As above w/ grit bands.				
						1.524 1.300						
								- - Top of Box 50 - -				

Form 71-1150-R02

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No. SD 7616 SHEET No 45

DATE BEGUN: DEPTH: BEARING: UTM

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int	RECOVERY m.	RECOVERY m. Rec	RECOVERY %
18° at base												
2	7.409	218.292	0.885					Sandstone, coarse grained w/ pebbles, calcite fractures. J.C.A. = 90°. Massive, clean.				
							717 218.592					
2	8.292	218.542	0.250					As above.				
2	8.542	218.712	0.176					Conglomerate, grit pebble size, poor sorting, good sphericity and rounding. White, grey, grey-green and black chart.				
2	8.712	218.752	0.040					Sandstone, fine grained, massive.				
2	8.752	218.812	0.060					Siltstone.				
2	8.812	218.877	0.063					Sandstone, fine grained, massive.				
2	8.877	218.887	0.010					Silty claystone.				
2	8.887	218.907	0.020					Sandstone, fine grained massive, sharp contacts.				
2	8.907	218.917	0.010					Silty claystone.				
2	8.917	219.037	0.120					Conglomerate, as above.				
2	9.037	219.367	0.330			1.524 / 1.300		Sandstone, coarse grained, massive, clean.				

Form 21-1150-R.J2

DENISON COAL LIMITED — DIAMOND DRILL CORE LOG

HOLE No. SD 7616 SHEET No 46

DATE BEGUN: DEPTH: BEARING: U.T.M.

DATE FINISHED: ELEV COLLAR: TOTAL DEPTH: COAL LICENSE:

LAT.: HOLE ANGLE: LOGGED BY: CORE SIZE:

B.C.A.	UNIT From	UNIT To	UNIT THICKNESS Thick	UNIT THICKNESS True	COAL SHEET	DESC. LOG	MARKER	DESCRIPTION	RECOVERY Int.	RECOVERY m	RECOVERY m-Rec	RECOVERY %
	219.367	219.592	0.225					Sandstone, med. grained, massive. Clean, occasional grit.				
							722 220.065					
								- - END OF HOLE. - -				

Form