PR-QUINTETTE 81(3)A

NEUTRON-NEUTRON LOG

BOREHOLE QBD 8101
CLIENT DENISON

AREA BABCOCK
COUNTRY CANADA
DATE LOGGED 13/8/81

DEPTH SCALE 200:1

___ OF ___ LOGS

BOREHOLE DATA REFER TO LITHOLOGY LOG

OPERATION DATA REFER TO " LOG

EQUIPMENT AND RECORDING DATA

LOG	TAPING: LOG TAPED	TAPING: RECORD SPEED	TAPING: DIRECT or REPLAY	PANEL: SPEED	PANEL: T.C. SECS	PANEL: NORM	CAL COEFF
N-N	✓	9	d	6	1	.978	

SONDE NO 204
SOURCE NO 6787

REMARKS
LOGGED THROUGH THE RODS
60° angle hole

615

	DEPTH	NEUTRON-NEUTRON
		0 snu 400

		0 snu 400
	DEPTH	NEUTRON-NEUTRON

BOREHOLE QBD 8101
CLIENT DENISON
AREA BABCOCK
COUNTRY CANADA

MY A58452R

COAL QUALITY LOG

SONDE TYPE.
COAL
COMBINATION
SONDE

LOG SUITE
GAMMA RAY
L.S. DENSITY

BOREHOLE QBD 8102
CLIENT DENISON

AREA BABCOCK
COUNTRY CANADA
DATE LOGGED 17/8/81

DEPTH SCALE 20:1

___ OF ___ LOGS

BOREHOLE DATA REFER TO LITHOLOGY LOG

OPERATION DATA REFER TO LITHOLOGY LOG

EQUIPMENT AND RECORDING DATA

COAL COMBINATION SONDE						
			SIDEWALL POSITION			
LOG	TAPING			PANEL		CAL COEFF
	LOG TAPED	RECORD SPEED	DIRECT or REPLAY	SPEED	T.C. SECS	NORM	
GAMMA RAY	Y	2	R	2	2		
L.S DENSITY	Y	2	R	2	1	7.05	1.49

SOURCE SONDE AND CALIBRATION
REFER TO LITHOLOGY LOG

COAL QUALITY LOG INTERVALS

FROM	490	479	388	369	342	313	284	
TO	483	468	385	364	374	307	279	
INTERVAL	7	11	3	5	8	6	5	
FROM	266	230	214	115	99	45		
TO	258	225	208	111	96	40		
INTERVAL	8	5	6	4	3	5		77m INTER-VAL TOTAL

REMARKS

6/5

PR-QUINTETTE 81(3A)

BPB COAL QUALITY LOG

	DEPTH	GAMMA RAY
		COAL BULK DENSITY g/cm³

HOLE SIZE CORRECTION DATA

	DEPTH	COAL BULK DENSITY g/cm³
		GAMMA RAY

BOREHOLE QBD 8102
CLIENT DENISON
AREA BABCOCK
COUNTRY CANADA

COAL QUALITY LOG

MY 8002 R

PR - QUINTETTE 81(3)A

COAL LITHOLOGY LOG

BOREHOLE QBD 8102
CLIENT DENISON
AREA BABCOCK
COUNTRY CANADA
DATE LOGGED 17/8/81
DEPTH SCALE 200:1
__ OF __ LOGS

SONDE TYPE:
COAL
COMBINATION
SONDE

LOG SUITE:
GAMMA RAY
L.S. DENSITY
CALIPER

BOREHOLE DATA

PERMANENT DATUM GROUND LEVEL
ELEVATION OF P.D. "
MEASUREMENTS FROM G.L. "

	BPB	DRILLER
DEPTH REACHED	492	495m
CASING SHOE	6.5m	G.L.

BIT SIZES	1	4½" TO 6.5	2	3½" TO TD
	3	TO	4	TO
CASING SIZES	1	4½" TO 6.5m	2	TO

FLUID DATA

NATURE QUIK TROL
SG
LEVEL
VISCOSITY
Rm at meas. temp
B.H.T.

OPERATION DATA

FIRST READING 490m
LAST READING 0
INTERVAL LOGGED 490m
UNIT-TRUCK No. HELI-BOX
ENGINEER DW/AL
WITNESS

6/5

EQUIPMENT AND RECORDING DATA

COAL COMBINATION SONDE

LOG	EQUIPMENT			TAPING			PANEL			CAL COEFF	DEPTHS			SEAM LOG RUN
	SONDE	SOURCE	CALIBRATOR	LOG TAPED	RECORD SPEED	DIRECT or REPLAY	SPEED	TC SECS	NORM		FROM	TO	INTERVAL	
GAMMA RAY	129			y	9	d	9	1		1.49	490m	0	490m	y
L.S DENSITY				y	9	d	9	.3	7.05		491	0	491m	y
CALIPER	SIDEWALL POSITION													

COAL QUALITY/SEAM THICKNESS LOG INTERVALS (Refer to relevant log)

														INTERVAL TOTAL
FROM	490	479	388	369	342	313	284	266	230	214	115	99	45	
TO	483	468	385	364	334	307	279	258	225	208	111	96	40	
INTERVAL	7	11	3	5	8	6	5	8	5	6	4	3	5	= 76m

ADDITIONAL SONDES RUN

SONDE	LOG	GENERAL SCALE LOG	DETAIL SCALE LOG
204	N-N	200:1	

REFER TO ADDITIONAL HEADINGS

REMARKS

CCS & N-N LOGGED THROUGH THE RODS
DIPMETER STUCK WHEN OPEN HOLE LOGGING TRIED.
482m TILT 4.6° AZIMUTH 213°
477.5m TILT 3.3° AZIMUTH 232°

BPB COAL LITHOLOGY LOG

CALIBRATION DATA

JIG No	VALUE 537 @ 2" DIAM	JIG CAL DATE 29/7/81	JIG VALUE 3680 SDU @ 1.03 g/cm³	ins	cps
JIG MARK SHOWN AT ABOVE VALUE -		JIG No 0041	SPAN 6000 NORM $\frac{SDU}{CPS}$ = 7.05	ins	cps

GAMMA RAY	DEPTH	BULK DENSITY g/cm³	CALIPER INCHES

BOREHOLE QBD 8102 AREA BABCOCK
CLIENT DENISON COUNTRY CANADA

COAL LITHOLOGY LOG

MY A50261 R

PR-QUINTETTE 81(3)A

SEAM THICKNESS LOG

BORCHOLE QMD 8107
CLIENT DENISON MINES

AREA FRANK
COUNTRY CANADA
DATE LOGGED 23-10-81

DEPTH SCALE 20:1

3 OF 4 LOGS

BOREHOLE DATA	REFER TO LITHOLOGY LOG
OPERATION DATA	REFER TO LITHOLOGY LOG

EQUIPMENT AND RECORDING DATA

COAL COMBINATION SONDE

SIDEWALL POSITION

LOG	TAPING LOG TAPED	RECORD SPEED	DIRECT or REPLAY	PANEL SPEED	T.C. SECS	NORM	CAL COEFF
CALIPER							
B.R. DENSITY	1	2	3	2	.3	7.3	-

SOURCE, SONDE AND CALIBRATION
REFER TO LITHOLOGY LOG

SEAM THICKNESS LOG INTERVALS

FROM	323	296	272	243	219	208
TO	312	285	263	234	215	205
INTERVAL	11	11	9	9	4	3
FROM	403	61				
TO	180	58				
INTERVAL	223	3				INTERVAL TOTAL 73

REMARKS TOOL RUN THROUGH RODS
THEREFORE NO CALIPER LOG

615

SONDE TYPE:
COAL
COMBINATION
SONDE

LOG SUITE:
CALIPER
B.R. DENSITY

B P B SEAM THICKNESS LOG

CALIPER INCHES	DEPTH	BED RESOLUTION DENSITY
7" 6" 5" dia 4" 3" 2"		10000 SBRDU c.p.s. 6000

CALIPER
DEPTH
BED RESOLUTION DENSITY

SEAM THICKNESS LOG

PR - QUINTETTE 81(3)A

BOREHOLE QMD 8107
CLIENT DENISON MINES

AREA FRAME
COUNTRY CANADA
DATE LOGGED 23-10-81

DEPTH SCALE 20:1

4 OF 4 LOGS

COAL QUALITY LOG

BOREHOLE DATA	REFER TO LITHOLOGY LOG
OPERATION DATA	REFER TO LITHOLOGY LOG

EQUIPMENT AND RECORDING DATA

COAL COMBINATION SONDE:

SIDEWALL POSITION

LOG	TAPING: LOG TAPED	TAPING: RECORD SPEED	TAPING: DIRECT or REPLAY	PANEL: SPEED	PANEL: T.C. SECS	PANEL: NORM	CAL COEFF
GAMMA RAY	Y	2	R	2	1	-	1.5[illegible]
L.S. DENSITY	"	"	"	"	"	8.01	-

SOURCE, SONDE AND CALIBRATION

REFER TO LITHOLOGY LOG

SONDE TYPE:
COAL
COMBINATION
SONDE

LOG SUITE:
GAMMA RAY
L.S. DENSITY

COAL QUALITY LOG INTERVALS

FROM	323	296	272	243	219	208
TO	312	285	263	234	215	205
INTERVAL	11	11	9	9	4	3
FROM	203	61				
TO	180	58				
INTERVAL	23	3				INTERVAL TOTAL =73

REMARKS TOOL RUN THROUGH RODS

615

BPB COAL QUALITY LOG

	DEPTH	GAMMA RAY
		COAL BULK DENSITY g/cm3

HOLE SIZE CORRECTION DATA

		COAL BULK DENSITY g/cm3
	DEPTH	GAMMA RAY

BOREHOLE QMD 8107
CLIENT DENISON MINES
AREA FRAME
COUNTRY CANADA

COAL QUALITY LOG

MY 88002 R

POR-QUINTETTE 81(3)A

BPB

NEUTRON-NEUTRON
AND
GAMMA RAY LOGS

BOREHOLE QMD 8107
CLIENT DENISON MINES

AREA FRAME
COUNTRY CANADA
DATE LOGGED 23-10-81

DEPTH SCALE 100:1

2 OF 4 LOGS

BOREHOLE DATA REFER TO LITHOLOGY LOG
OPERATION DATA REFER TO LITHOLOGY LOG

EQUIPMENT AND RECORDING DATA

LOG	TAPING			PANEL			CAL COEFF
	LOG TAPED	RECORD SPEED	DIRECT or REPLAY	SPEED	T C SECS	NORM	
N-N	Y	9	D	9	1	-	.74
GAMMA	"	"	R	"	"	-	1.54
		SONDE NO		SOURCE NO			

REMARKS TOOLS RUN THROUGH RODS

615

BOREHOLE QMD 8107
CLIENT DENISON MINES
AREA FRAME
COUNTRY CANADA

MY A58452R

PR - QUINTETTE 81(3A

COAL LITHOLOGY LOG

BOREHOLE QMD 8107
CLIENT DENISON MINES

AREA FRAME
COUNTRY CANADA
DATE LOGGED 23-10-81

DEPTH SCALE 100:1

1 OF 4 LOGS

SONDE TYPE
COAL
COMBINATION
SONDE

LOG SUITE
GAMMA RAY
L.S. DENSITY
CALIPER

BOREHOLE DATA

PERMANENT DATUM	GROUND LEVEL			
ELEVATION OF P.D.	" "			
	BPB		DRILLER	
MEASUREMENTS FROM	GL		GL	
DEPTH REACHED	332m		334m	
CASING SHOE				
BIT SIZES 1	HQ TO TD	2	TO	
3	TO	4	TO	
CASING SIZES 1	TO	2	TO	

FLUID DATA

NATURE	
S.G	
LEVEL	
VISCOSITY	
Rm at meas. temp.	
B.H.T	

OPERATION DATA

FIRST READING	332m
LAST READING	0m
INTERVAL LOGGED	332m
UNIT-TRUCK No.	26
ENGINEER	D.W/R.W.
WITNESS	

615

EQUIPMENT AND RECORDING DATA

COAL COMBINATION SONDE

LOG	EQUIPMENT			TAPING			PANEL			CAL COEFF	DEPTHS			SEAM LOG RUN
	SONDE	SOURCE	CALIBRATOR	LOG TAPED	RECORD SPEED	DIRECT or REPLAY	SPEED	T C SECS	NORM		FROM	TO	INTERVAL	
CCS	101	5822												
GAMMA RAY	SIDEWALL POSITION		337 API	Y	9	D	9	1	–	1.5	332	0	332	
L.S. DENSITY				"	"	"	"	"	8.01	–	"	"	"	
CALIPER			–	"	"	"	"	.3	–	–	"	"	"	

COAL QUALITY/SEAM THICKNESS LOG INTERVALS (Refer to relevant log)

									INTERVAL TOTAL
FROM	323	296	272	243	219	208	203	61	
TO	312	285	263	234	215	205	180	58	
INTERVAL	11	11	9	9	4	3	23	3	= 73

ADDITIONAL SONDES RUN

SONDE	LOG	GENERAL SCALE LOG	DETAIL SCALE LOG
204	N-N	100:1	

REFER TO ADDITIONAL HEADINGS

REMARKS

ALL TOOLS RUN THROUGH RODS

VERTICALITY	TILT	AZIMUTH
approx. 330m	62°	212°
" 200m	63°	211°
" 100m	63°	209°

BPB COAL LITHOLOGY LOG

CALIBRATION DATA

JIG No. VALUE @ 2" DIAM
JIG MARK SHOWN AT ABOVE VALUE –
JIG CAL DATE JIG VALUE SDU @ g/cm³ ins cps
JIG No SPAN NORM SDU/CPS = ins cps

GAMMA RAY	DEPTH	BULK DENSITY g/cm³	CALIPER INCHES

HOLE SIZE CORRECTION DATA

GAMMA RAY	DEPTH	BULK DENSITY g/cm³	CALIPER INCHES

BOREHOLE QMD 8107 AREA FRAME
CLIENT DENISON MINES COUNTRY CANADA

COAL LITHOLOGY LOG

MY A50261 R

PR-QUINTETTE 81(3)A

BPB

BOREHOLE QMD 8106
CLIENT DENISON

AREA FRAME
COUNTRY CANADA
DATE LOGGED 7/10/81

DEPTH SCALE
200:1

___OF___LOGS

COAL LITHOLOGY LOG

SONDE TYPE:
COAL
COMBINATION
SONDE

LOG SUITE:
GAMMA RAY
L.S. DENSITY
CALIPER

BOREHOLE DATA

PERMANENT DATUM	GROUND LEVEL	
ELEVATION OF P.D.	" "	
	BPB	DRILLER
MEASUREMENTS FROM	G.L.	G.L.
DEPTH REACHED	260m	262m
CASING SHOE		
BIT SIZES	1 TO	2 TO
	3 TO	4 TO
CASING SIZES	1 TO	2 TO

FLUID DATA

NATURE	
S.G	
LEVEL	
VISCOSITY	
Rm at meas. temp.	
B.H.T.	

OPERATION DATA

615

FIRST READING	260m
LAST READING	0
INTERVAL LOGGED	260m
UNIT-TRUCK No.	HELI-BOX
ENGINEER	DW/GM
WITNESS	

EQUIPMENT AND RECORDING DATA

COAL COMBINATION SONDE

LOG	EQUIPMENT: SONDE	EQUIPMENT: SOURCE	EQUIPMENT: CALIBRATOR	TAPING: LOG TAPED	TAPING: RECORD SPEED	TAPING: DIRECT or REPLAY	PANEL: SPEED	PANEL: T.C SECS	PANEL: NORM	CAL COEFF	DEPTHS: FROM	DEPTHS: TO	DEPTHS: INTERVAL	SEAM LOG RUN
GAMMA RAY	101			y	9	d	9	1		1.94	260	0	260	y
L.S. DENSITY		5822		y	9	d	9	.3	8.01		261	0	261	y
CALIPER	SIDEWALL POSITION			y	9	d	9	.3			261	0	261	y

COAL QUALITY/SEAM THICKNESS LOG INTERVALS (Refer to relevant log)

FROM	220	163	143	127	40		✓ INTERVAL TOTAL
TO	200	154	133	110	38		
INTERVAL	20	9	10	17	2		= 58

ADDITIONAL SONDES RUN

SONDE	LOG	GENERAL SCALE LOG	DETAIL SCALE LOG
204	n-n		
217/218	DIP		

REFER TO ADDITIONAL HEADINGS

REMARKS

BPB COAL LITHOLOGY LOG

CALIBRATION DATA

JIG No	VALUE @ 2" DIAM	JIG CAL DATE	JIG VALUE	SDU @ g/cm³ ins. cps.
JIG MARK SHOWN AT ABOVE VALUE -		JIG No	SPAN	NORM $\frac{SDU}{CPS}$ = ins cps

GAMMA RAY	DEPTH	BULK DENSITY g/cm³	CALIPER INCHES

HOLE SIZE CORRECTION DATA

GAMMA RAY	DEPTH	BULK DENSITY g/cm³	CALIPER INCHES
0 API 200		6000 sdu	0 2

BPB

BOREHOLE QMD 8106
CLIENT DENISON
AREA FRAME
COUNTRY CANADA

COAL LITHOLOGY LOG

MY A50261 R

COAL LITHOLOGY LOG

BOREHOLE QMD 8106
CLIENT DENISON
AREA FRAME
COUNTRY CANADA
DATE LOGGED 5/6/81

DEPTH SCALE 200:1

___ OF ___ LOGS

SONDE TYPE:
COAL
COMBINATION
SONDE

LOG SUITE:
GAMMA RAY
L.S. DENSITY
CALIPER

BOREHOLE DATA

	BPB	DRILLER
PERMANENT DATUM	GROUND LEVEL	
ELEVATION OF P.D.	"	"
MEASUREMENTS FROM	G.L.	G.L.
DEPTH REACHED	258m	262m
CASING SHOE		
BIT SIZES	1 TO	2 TO
	3 TO	4 TO
CASING SIZES	1 TO	2 TO

FLUID DATA

NATURE	
S.G.	
LEVEL	
VISCOSITY	
Rm at meas. temp.	
B.H.T.	

OPERATION DATA

FIRST READING	258m
LAST READING	0
INTERVAL LOGGED	258m
UNIT-TRUCK No.	HELI-BOX
ENGINEER	BP/GM
WITNESS	

615

EQUIPMENT AND RECORDING DATA

COAL COMBINATION SONDE

LOG	EQUIPMENT			TAPING			PANEL			CAL COEFF	DEPTHS			SEAM LOG RUN
	SONDE	SOURCE	CALIBRATOR	LOG TAPED	RECORD SPEED	DIRECT or REPLAY	SPEED	T.C. SECS	NORM		FROM	TO	INTERVAL	
GAMMA RAY	101			y	9	d	9	1		1.54	258m	0	258m	
L.S. DENSITY	SIDEWALL POSITION	5822		y	9	d	9	.3	8.01		259m	0	259m	
CALIPER														

COAL QUALITY/SEAM THICKNESS LOG INTERVALS (Refer to relevant log)

FROM		INTERVAL TOTAL
TO		
INTERVAL		

ADDITIONAL SONDES RUN

SONDE	LOG	GENERAL SCALE LOG	DETAIL SCALE LOG
204	N-N		
217/212	DIP	OPEN HOLE	

REFER TO ADDITIONAL HEADINGS

REMARKS

HOLE LOGGED THROUGH THE RODS (ALSO LOGGED OPEN HOLE)

BPB COAL LITHOLOGY LOG

GAMMA RAY	DEPTH	BULK DENSITY g/cm³	CALIPER INCHES

BOREHOLE QMD 8106 AREA FRAME
CLIENT DENISON COUNTRY CANADA

COAL LITHOLOGY LOG

MY A50261 R

PR-QUINTETTE 81(3)A

NEUTRON-NEUTRON & GAMMA RAY LOGS

BOREHOLE QMD 8106
CLIENT DENISON

AREA FRAME
COUNTRY CANADA
DATE LOGGED 7/10/81

DEPTH SCALE 200:1

___OF___ LOGS

BOREHOLE DATA	REFER TO LITHOLOGY LOG
OPERATION DATA	REFER TO " LOG

EQUIPMENT AND RECORDING DATA

LOG	TAPING			PANEL			CAL COEFF
	LOG TAPED	RECORD SPEED	DIRECT or REPLAY	SPEED	T.C. SECS	NORM	
GAMMA	Y	9	d	9	1		1.54
N-N	Y	9	d	9	1	.74	

SONDE NO 204
SOURCE NO 6787

REMARKS

615

GAMMA RAY
API 0 150
DEPTH
NEUTRON-NEUTRON
snu 0 800

BOREHOLE QMD 8106
CLIENT DENISON

AREA FRAME
COUNTRY CANADA

MY A58452R

Pe-QUINTETTE 81(3)A

GAMMA RAY & NEUTRON-NEUTRON

BOREHOLE QMD 8106
CLIENT DENISON

AREA FRAME
COUNTRY CANADA
DATE LOGGED 6/10/81

DEPTH SCALE 200:1
___ OF ___ LOGS

BOREHOLE DATA REFER TO LITHOLOGY LOG
OPERATION DATA REFER TO LITHOLOGY LOG

EQUIPMENT AND RECORDING DATA

LOG	TAPING: LOG TAPED	TAPING: RECORD SPEED	TAPING: DIRECT or REPLAY	PANEL: SPEED	PANEL: T.C. SECS	PANEL: NORM	CAL COEFF
GAMMA	Y	9	d	9	1		1.54
N-N	Y	9	d	9	1	.74	

SONDE NO 204
SOURCE NO 6787

REMARKS
HOLE LOGGED THROUGH THE RODS

615

GAMMA RAY	DEPTH	NEUTRON-NEUTRON
0 API 200		0 snu 800

0 API 200		0 snu 800
GAMMA RAY	DEPTH	NEUTRON-NEUTRON

BOREHOLE QMD 8106
CLIENT DENISON

AREA FRAME
COUNTRY CANADA

MY A58452R

SEAM THICKNESS LOG

SONDE TYPE:
COAL
COMBINATION
SONDE

LOG SUITE:
CALIPER
B.R.DENSITY

BOREHOLE QPD 8106
CLIENT Denison Mines

AREA Frame
COUNTRY Canada
DATE LOGGED 06/10/81

DEPTH SCALE 1:20

3 OF 3 LOGS

BOREHOLE DATA REFER TO LITHOLOGY LOG

OPERATION DATA REFER TO LITHOLOGY LOG

EQUIPMENT AND RECORDING DATA

COAL COMBINATION SONDE

LOG	TAPING LOG TAPED	RECORD SPEED	DIRECT or REPLAY	SPEED	PANEL TC SECS	NORM	SIDEWALL POSITION CAL COEFF
CALIPER							
B.R.DENSITY	Y	9	2	2	1		.74

SOURCE SONDE AND CALIBRATION

REFER TO LITHOLOGY LOG

SEAM THICKNESS LOG INTERVALS

FROM	222	164	145	127	58	41
TO	139	141	132	109	52	36
INTERVAL	23	10	13	18	6	5
FROM						
TO						INTERVAL TOTAL
INTERVAL						= 75

REMARKS LOGGED IN DRILL RODS

615

PQ-QUINTETTE 81(3)A

B P B SEAM THICKNESS LOG

CALIPER INCHES	DEPTH	BED RESOLUTION DENSITY
" " " dia " " "		10000 SBRDU 6000

CALIPER INCHES	DEPTH	BED RESOLUTION DENSITY
" " " dia " " "		10000 SBRDU 6000

BOREHOLE QPD8106
CLIENT Denison Mines

AREA Frame
COUNTRY Canada

SEAM THICKNESS LOG

MY 88002 R

Pre-QUINTETTE 81(3)A

SEAM THICKNESS LOG

SONDE TYPE:
COAL COMBINATION SONDE

LOG SUITE:
CALIPER
B.R. DENSITY

BOREHOLE QMD 8106
CLIENT DENISON

AREA FRAME
COUNTRY CANADA
DATE LOGGED 7/10/81

DEPTH SCALE 20:1

1 OF 4 LOGS

BOREHOLE DATA — REFER TO LITHOLOGY LOG

OPERATION DATA — REFER TO LITHOLOGY LOG

EQUIPMENT AND RECORDING DATA

COAL COMBINATION SONDE — SIDEWALL POSITION

LOG	LOG TAPED	RECORD SPEED	DIRECT or REPLAY	SPEED	TC SECS	NORM	CAL COEFF
CALIPER	y	2	r	2	1		
B R DENSITY	y	2	r	2	.3	7.3	

SOURCE, SONDE AND CALIBRATION — REFER TO LITHOLOGY LOG

SEAM THICKNESS LOG INTERVALS

FROM	220	163	143	127	40	58	
TO	200	154	133	110	38	52	
INTERVAL	20	9	10	17	2	6	
FROM							
TO							
INTERVAL							INTERVAL TOTAL = 64

REMARKS

615

B P B SEAM THICKNESS LOG

CALIPER INCHES	DEPTH	BED RESOLUTION DENSITY
7" 6" 5" dia 4" 3" 2"		28,000 sbrdu 14,000

CALIPER INCHES	DEPTH	BED RESOLUTION DENSITY
7" 6" 5" dia 4" 3" 2"		28,000 sbrdu 14,000

BOREHOLE QMD 8106
CLIENT DENISON
AREA FRAME
COUNTRY CANADA

SEAM THICKNESS LOG

MY 88002 R

Pre-Quintette 81(3)A

COAL QUALITY LOG

SONDE TYPE: COAL COMBINATION SONDE

LOG SUITE: GAMMA RAY L.S. DENSITY

BOREHOLE QMD 8106
CLIENT DENISON
AREA FRAME
COUNTRY CANADA
DATE LOGGED 7/10/81
DEPTH SCALE 20:1
1 OF 4 LOGS

BOREHOLE DATA: REFER TO LITHOLOGY LOG
OPERATION DATA: REFER TO LITHOLOGY LOG
EQUIPMENT AND RECORDING DATA
COAL COMBINATION SONDE
SIDEWALL POSITION

LOG	TAPED	RECORD SPEED	DIRECT or REPLAY	SPEED	T.C SECS	NORM	CAL COEFF
GAMMA RAY	Y	2	R	2	2		
L.S.DENSITY	Y	2	R	2	1	8.01	1.54

SOURCE SONDE AND CALIBRATION
REFER TO LITHOLOGY LOG

COAL QUALITY LOG INTERVALS

FROM	220	163	143	127	40	
TO	200	150	133	110	38	
INTERVAL	20	9	10	17	2	INTERVAL TOTAL =58m

REMARKS

615

BPB COAL QUALITY LOG

	DEPTH	GAMMA RAY
		COAL BULK DENSITY g/cm3

HOLE SIZE CORRECTION DATA

		6 000 sdu 0
		200 API 0
		COAL BULK DENSITY g/cm3
	DEPTH	GAMMA RAY

BOREHOLE QMD 8106
CLIENT DENISON
AREA FRAME
COUNTRY CANADA

COAL QUALITY LOG

MY 8002 R

PR-QUINTETTE 81(3)A

COAL QUALITY LOG

BOREHOLE QMD 8105
CLIENT Denison Mines

AREA Frame
COUNTRY Canada
DATE LOGGED 26 09 81

DEPTH SCALE 1:20

4 OF 4 LOGS

BOREHOLE DATA	REFER TO LITHOLOGY LOG
OPERATION DATA	REFER TO LITHOLOGY LOG

EQUIPMENT AND RECORDING DATA

COAL COMBINATION SONDE

SIDEWALL POSITION

LOG	TAPING: LOG TAPED	TAPING: RECORD SPEED	TAPING: DIRECT or REPLAY	PANEL: SPEED	PANEL: T.C. SECS	PANEL: NORM	CAL COEFF
GAMMA RAY	Y	2	R	2	1		1.51
L.S. DENSITY	Y	2	R	2	1		8.0

SOURCE, SONDE AND CALIBRATION
REFER TO LITHOLOGY LOG

COAL QUALITY LOG INTERVALS

FROM	108	80	57	40	
TO	100	70	52	11	
INTERVAL	8	10	5	29	
FROM					INTERVAL TOTAL
TO					
INTERVAL					=52

SONDE TYPE:
COAL
COMBINATION
SONDE

LOG SUITE:
GAMMA RAY
L.S. DENSITY

REMARKS
LOGGED IN NQ DRILL RODS

615

BPB COAL QUALITY LOG

GAMMA RAY

COAL BULK DENSITY g/cm3

DEPTH

HOLE SIZE CORRECTION DATA

COAL BULK DENSITY g/cm3

GAMMA RAY

DEPTH

BOREHOLE QMD 8105
CLIENT Denison Mines

AREA Frame
COUNTRY Canada

COAL QUALITY LOG

MY 88002 R

PR-QUINTETTE 81(3)A

SEAM THICKNESS LOG

BPB

BOREHOLE QMD 8105
CLIENT Denison Mines

AREA Frame
COUNTRY Canada
DATE LOGGED 26 09 81

DEPTH SCALE 1:20

3 OF 4 LOGS

SONDE TYPE:
COAL
COMBINATION
SONDE

LOG SUITE:
CALIPER
B.R. DENSITY

BOREHOLE DATA	REFER TO LITHOLOGY LOG
OPERATION DATA	REFER TO LITHOLOGY LOG

EQUIPMENT AND RECORDING DATA

COAL COMBINATION SONDE

SIDEWALL POSITION

LOG	TAPING			PANEL			CAL COEFF
	LOG TAPED	RECORD SPEED	DIRECT or REPLAY	SPEED	TC SECS	NORM	
CALIPER	Y	9	D	9	1		
B R DENSITY	Y	9	D	9	1/3		7.4

SOURCE SONDE AND CALIBRATION

REFER TO LITHOLOGY LOG

SEAM THICKNESS LOG INTERVALS

FROM	108	78	57	39	
TO	96	70	51	10.6	
INTERVAL	12	8	6	28.4	
FROM					INTERVAL TOTAL
TO					
INTERVAL					=54.4

REMARKS

LOGGED IN NQ DRILL RODS

615

B P B SEAM THICKNESS LOG

CALIPER INCHES | DEPTH | BED RESOLUTION DENSITY

CALIPER INCHES | DEPTH | BED RESOLUTION DENSITY

BPB

BOREHOLE QMD 8105
CLIENT Denison Mines

AREA Frame
COUNTRY Canada

SEAM THICKNESS LOG

MY 88002 R

PR. QUINTETTE 81(3)A

BOREHOLE QMD 8105
CLIENT Denison Mines

AREA Frame
COUNTRY Canada
DATE LOGGED 26 09 81

DEPTH SCALE 1:200

2 OF 4 LOGS

COAL LITHOLOGY LOG

BOREHOLE DATA

PERMANENT DATUM	Ground Level			
ELEVATION OF P.D.				
	BPB		DRILLER	
MEASUREMENTS FROM	Floor		Floor	
DEPTH REACHED	179		187.4	
CASING SHOE				
BIT SIZES	1	TO	2	TO
	3	TO	4	TO
CASING SIZES	1	TO	2	TO

FLUID DATA

NATURE	Ground Water
S.G	
LEVEL	
VISCOSITY	
Rm at meas. temp.	
B.H.T.	

SONDE TYPE
COAL
COMBINATION
SONDE

LOG SUITE
GAMMA RAY
L.S. DENSITY
CALIPER

OPERATION DATA

FIRST READING	180
LAST READING	0
INTERVAL LOGGED	180
UNIT-TRUCK No.	Hell
ENGINEER	Reed/Mackenzie/McMillan
WITNESS	

615

EQUIPMENT AND RECORDING DATA

COAL COMBINATION SONDE

LOG	EQUIPMENT			TAPING			PANEL			CAL COEFF	DEPTHS			SEAM LOG RUN
	SONDE	SOURCE	CALIBRATOR	LOG TAPED	RECORD SPEED	DIRECT or REPLAY	SPEED	TC SECS	NORM		FROM	TO	INTERVAL	
GAMMA RAY	SIDEWALL POSITION			Y	9	D	9	1		1.51	179	0		
L.S. DENSITY		5822		Y	9	D	9	1		8.0	180	0		
CALIPER														

COAL QUALITY/SEAM THICKNESS LOG INTERVALS (Refer to relevant log)

					INTERVAL TOTAL
FROM	108	80	57	40	
TO	100	70	52	11	
INTERVAL	8	10	5	29	= 52

ADDITIONAL SONDES RUN

SONDE	LOG	GENERAL SCALE LOG	DETAIL SCALE LOG	
204	N-N	1:200		REFER TO ADDITIONAL HEADINGS

REMARKS

Hole logged in NQ drill rod

BPB COAL LITHOLOGY LOG

CALIBRATION DATA

JIG No. VALUE 463 @ 2" DIAM	JIG CAL DATE	JIG VALUE 4090 SDU @ g/cm³	ins. cps
JIG MARK SHOWN AT ABOVE VALUE –	JIG No SPAN	NORM SDU/CPS = 8.0	ins cps

GAMMA RAY	DEPTH	BULK DENSITY g/cm³	CALIPER INCHES

HOLE SIZE CORRECTION DATA

GAMMA RAY	DEPTH	BULK DENSITY g/cm³	CALIPER INCHES

BOREHOLE QMD 8105
AREA Frame
CLIENT Denison Mines
COUNTRY Canada

COAL LITHOLOGY LOG

MY A50261 R

Pe-QUINTETTE 81(3)A

BPB

Neutron-Neutron

BOREHOLE QMD 8105
CLIENT Denison Mines

AREA Frame
COUNTRY Canada
DATE LOGGED 26 09 81

DEPTH SCALE 1:200

1 OF 4 LOGS

BOREHOLE DATA	REFER TO Lithology	LOG
OPERATION DATA	REFER TO Lithology	LOG

EQUIPMENT AND RECORDING DATA

LOG	TAPING			PANEL			
	LOG TAPED	RECORD SPEED	DIRECT or REPLAY	SPEED	T C SECS	NORM	CAL COEFF
N-N	Y	9	D	9	1		.74

SONDE NO 204
SOURCE NO 600

REMARKS
Hole logged in NQ drill rods

615

	DEPTH	Neutron-Neutron
		0 SNU 800

		0 SNU 800
	DEPTH	Neutron-Neutron

BPB

BOREHOLE QMD 8105
CLIENT Denison Mines
AREA Frame
COUNTRY Canada

MY A58452R

PQ2-QUINTETTE 81(3)A

BPB

COAL QUALITY LOG

BOREHOLE QMD8104
CLIENT DENISON MINES
AREA FRAME
COUNTRY CANADA
DATE LOGGED 20/09/81
DEPTH SCALE 200:1
4 OF 4 LOGS

SONDE TYPE: COAL COMBINATION SONDE

LOG SUITE: GAMMA RAY L.S. DENSITY

BOREHOLE DATA REFER TO LITHOLOGY LOG

OPERATION DATA REFER TO LITHOLOGY LOG

EQUIPMENT AND RECORDING DATA

COAL COMBINATION SONDE — SIDEWALL POSITION

LOG	LOG TAPED	RECORD SPEED	DIRECT or REPLAY	PANEL SPEED	TC SECS	NORM	CAL COEFF
GAMMA RAY	Y	2	R	2	2		
L.S.DENSITY	Y	2	R	2	1	8.0	1.54

SOURCE, SONDE AND CALIBRATION REFER TO LITHOLOGY LOG

COAL QUALITY LOG INTERVALS

FROM	116	74	55
TO	104	60	20
INTERVAL	12	14	35
FROM			
TO			
INTERVAL			INTERVAL TOTAL = 61

REMARKS

619

BPB COAL QUALITY LOG

	DEPTH	GAMMA RAY
		COAL BULK DENSITY g/cm3

HOLE SIZE CORRECTION DATA

		COAL BULK DENSITY g/cm3
	DEPTH	GAMMA RAY

BPB

BOREHOLE QMD8104
CLIENT DENISON MINES
AREA FRAME
COUNTRY CANADA

COAL QUALITY LOG

MY 8002 R

PR. QUINETTE 81(3)A

B P B

SEAM THICKNESS LOG

BOREHOLE QMD8104
CLIENT DENISON MINES

AREA FRAME
COUNTRY CANADA
DATE LOGGED 20/09/81

DEPTH SCALE 200:1

3 OF 4 LOGS

SONDE TYPE
COAL COMBINATION SONDE

LOG SUITE
CALIPER
B.R. DENSITY

BOREHOLE DATA: REFER TO LITHOLOGY LOG

OPERATION DATA: REFER TO LITHOLOGY LOG

EQUIPMENT AND RECORDING DATA

COAL COMBINATION SONDE

SIDEWALL POSITION

LOG	TAPING LOG TAPED	RECORD SPEED	DIRECT or REPLAY	PANEL SPEED	T.C. SECS	NORM	CAL COEFF
CALIPER	Y	2	R	2			
B.R. DENSITY	Y	2	R	2		.74	

SOURCE SONDE AND CALIBRATION
REFER TO LITHOLOGY LOG

SEAM THICKNESS LOG INTERVALS

FROM	116	74	55	
TO	104	60	20	
INTERVAL	12	14	35	
FROM				
TO				
INTERVAL				TOTAL INTERVAL = 61

REMARKS

6/5

B P B SEAM THICKNESS LOG

CALIPER INCHES	DEPTH	BED RESOLUTION DENSITY
7" dia 2"		13000 SBRDU 7000

CALIPER INCHES	DEPTH	BED RESOLUTION DENSITY
7" dia 2"		13000 SBRDU 7000

B P B

BOREHOLE QMD8103
CLIENT DENISON MINES

AREA FRAME
COUNTRY CANADA

SEAM THICKNESS LOG

MY 88002 R

PR- QUINTETTE 81(3)A

NEUTRON-NEUTRON

BOREHOLE QMD8104
CLIENT DENISON MINES

AREA FRAME
COUNTRY CANADA
DATE LOGGED 20/09/81

DEPTH SCALE 200:1

2 OF 4 LOGS

BOREHOLE DATA	REFER TO LITHOLOGY LOG
OPERATION DATA	REFER TO " LOG

EQUIPMENT AND RECORDING DATA

LOG	TAPING			PANEL			CAL COEFF
	LOG TAPED	RECORD SPEED	DIRECT or REPLAY	SPEED	T.C. SECS	NORM	
N-N	Y	9	D	9	1		1.54

SONDE NO
SOURCE NO

REMARKS
LOGGED THROUGH RODS

615

BOREHOLE QMD8104
CLIENT DENISON MINES

AREA FRAME
COUNTRY CANADA

MY A58452R

DD-QUINTETTE 81(3)A

COAL LITHOLOGY LOG

BOREHOLE QNDR8104
CLIENT DENISON MINES
AREA FRANS
COUNTRY CANADA
DATE LOGGED 20/09/81
DEPTH SCALE 200:1
1 OF 4 LOGS

SONDE TYPE:
COAL COMBINATION SONDE

LOG SUITE:
GAMMA RAY
L.S. DENSITY
CALIPER

BOREHOLE DATA

PERMANENT DATUM	FLOOR			
ELEVATION OF P.D.				
	BPB		DRILLER	
MEASUREMENTS FROM	FLOOR		FLOOR	
DEPTH REACHED	116		120	
CASING SHOE				
BIT SIZES 1	HQ TO TD	2	TO	
3	TO	4	TO	
CASING SIZES 1	TO	2	TO	

FLUID DATA

NATURE	MUD
S.G	
LEVEL	
VISCOSITY	
Rm at meas. temp.	
B.H.T.	

OPERATION DATA

FIRST READING	116
LAST READING	0
INTERVAL LOGGED	116
UNIT-TRUCK No.	BHIT-BOX
ENGINEER	DM/SM
WITNESS	

6/5

EQUIPMENT AND RECORDING DATA

COAL COMBINATION SONDE

LOG	EQUIPMENT			TAPING			PANEL			CAL COEFF	DEPTHS			SEAM LOG RUN
	SONDE	SOURCE	CALIBRATOR	LOG TAPED	RECORD SPEED	DIRECT or REPLAY	SPEED	T C SECS	NORM		FROM	TO	INTERVAL	
GAMMA RAY	SIDEWALL POSITION			Y	9	D	9	1		1.54	116	0	116	
L.S DENSITY				Y	9	D	9	1	8.0		116	0	116	
CALIPER				Y	9	D	9	.3			116	0	116	

COAL QUALITY/SEAM THICKNESS LOG INTERVALS (Refer to relevant log)

				INTERVAL TOTAL
FROM	116	74	55	
TO	104	60	20	
INTERVAL	12	14	35	= 61

ADDITIONAL SONDES RUN

SONDE	LOG	GENERAL SCALE LOG	DETAIL SCALE LOG
204	N-N	200:1	

REFER TO ADDITIONAL HEADINGS

REMARKS

RUNNED THROUGH RODS

BPB COAL LITHOLOGY LOG

CALIBRATION DATA

JIG No VALUE @ 2" DIAM
JIG MARK SHOWN AT ABOVE VALUE -
JIG CAL DATE JIG VALUE SDU @ g/cm³ ins cps
JIG No SPAN NORM SDU/CPS = ins cps

GAMMA RAY	DEPTH	BULK DENSITY g/cm³	CALIPER INCHES

GAMMA RAY	DEPTH	BULK DENSITY g/cm³	CALIPER INCHES

BOREHOLE QDD8104 AREA FRAME
CLIENT DENISON MINES COUNTRY CANADA

COAL LITHOLOGY LOG

MY A50261 R

Pre-Quintette 81(3)a

SONIC

BOREHOLE QMD8103
CLIENT DENISON MINES

AREA FRAME
COUNTRY CANADA
DATE LOGGED 18/09/81

DEPTH SCALE 200:1

5 OF 7 LOGS

BOREHOLE DATA REFER TO LITHOLOGY LOG
OPERATION DATA REFER TO " LOG

EQUIPMENT AND RECORDING DATA

LOG	TAPING		PANEL			
	LOG TAPED	RECORD SPEED	DIRECT or REPLAY	SPEED	T.C. SECS	NORM	CAL COEFF
SONIC	Y	9	D	9	.3		
		SONDE NO	313	SOURCE NO			

REMARKS

615

MEDIUM SPACED	DEPTH	HIGH RESOLUTION
150 Micro sec. / ft. 30		150 Micro sec. / ft. 30

150 Micro sec. /ft. 30		150 Micro sec. / ft. 30
MEDIUM SPACED	DEPTH	HIGH RESOLUTION

BOREHOLE QMD8103
CLIENT DENISON MINES
AREA FRAME
COUNTRY CANADA

MY A58452R

RE-QUINTETTE 81(3)

NEUTRON-NEUTRON

BOREHOLE QMD8103
CLIENT DENISON MINES

AREA FRAME
COUNTRY CANADA
DATE LOGGED 18/09/81

DEPTH SCALE 200:1

4 OF 7 LOGS

BOREHOLE DATA REFER TO LITHOLOGY LOG
OPERATION DATA REFER TO " LOG

EQUIPMENT AND RECORDING DATA

LOG	TAPING: LOG TAPED	TAPING: RECORD SPEED	TAPING: DIRECT or REPLAY	PANEL: SPEED	PANEL: T.C. SECS	PANEL: NORM	CAL COEFF
N-N	Y	9	D	9	1		.74

SONDE NO 204 SOURCE NO 6787

REMARKS

615

DEPTH	NEUTRON-NEUTRON
	0 SNU 800

DEPTH	NEUTRON-NEUTRON
	0 SNU 800

BOREHOLE QMD8103
CLIENT DENISON MINES

AREA FRAME
COUNTRY CANADA

MY A58452R

PR-QUINTETTE 81(3)A

NEUTRON-NEUTRON

BOREHOLE QMD8103
CLIENT DENISON MINES

AREA FRAMBOCK
COUNTRY CANADA
DATE LOGGED 18/09/81

DEPTH SCALE 200:1

2 OF 7 LOGS

BOREHOLE DATA	REFER TO LITHOLOGY LOG
OPERATION DATA	REFER TO " LOG

EQUIPMENT AND RECORDING DATA

LOG	TAPING			PANEL			
	LOG TAPED	RECORD SPEED	DIRECT or REPLAY	SPEED	T.C. SECS	NORM	CAL COEFF
N-N	Y	9	D	9	1		.74
		SONDE NO	204	SOURCE NO	6787		

REMARKS
THROUGH RODS

615

BOREHOLE QMD8103
CLIENT DENISON MINES

AREA FRAMBOCK
COUNTRY CANADA

MY A58452R

PR-QUINTETTE 81(3)A

BOREHOLE QMD8103
CLIENT DENISON MINES

AREA FRAME
COUNTRY CANADA
DATE LOGGED 18/09/81

DEPTH SCALE 200:1

2 OF 7 LOGS

COAL LITHOLOGY LOG

BOREHOLE DATA

PERMANENT DATUM	FLOOR	
ELEVATION OF P.D.		
	BPB	DRILLER
MEASUREMENTS FROM	FLOOR	FLOOR
DEPTH REACHED	278	280
CASING SHOE		

BIT SIZES	1	HQ TO TD	2	TO
	3	TO	4	TO
CASING SIZES	1	TO	2	TO

FLUID DATA

NATURE	MUD
S.G.	
LEVEL	
VISCOSITY	
Rm at meas. temp.	
B.H.T.	

SONDE TYPE
COAL
COMBINATION
SONDE

LOG SUITE
GAMMA RAY
L.S. DENSITY
CALIPER

OPERATION DATA

FIRST READING	278
LAST READING	0
INTERVAL LOGGED	278
UNIT-TRUCK No	HELI-BOX
ENGINEER	DR/SM/DM
WITNESS	

615

EQUIPMENT AND RECORDING DATA

COAL COMBINATION SONDE

LOG	EQUIPMENT			TAPING			PANEL			CAL COEFF	DEPTHS			SEAM LOG RUN
	SONDE	SOURCE	CALIBRATOR	LOG TAPED	RECORD SPEED	DIRECT or REPLAY	SPEED	T.C. SECS	NORM		FROM	TO	INTERVAL	
GAMMA RAY	101			Y	9	D	9	1		1.54	278	0	278	
L.S. DENSITY				Y	9	D	9	.3	8.0		278	0	278	
CALIPER	SIDEWALL POSITION			Y	9	D	9	.3			278	0	278	

COAL QUALITY/SEAM THICKNESS LOG INTERVALS (Refer to relevant log)

FROM		INTERVAL TOTAL
TO		
INTERVAL		=

ADDITIONAL SONDES RUN

SONDE	LOG	GENERAL SCALE LOG	DETAIL SCALE LOG
204	N-N	200:1	
	SONIC	200:1	
217	VERT	200:1	

REFER TO ADDITIONAL HEADINGS

REMARKS

LOGGED THROUGH RODS

BPB COAL LITHOLOGY LOG

CALIBRATION DATA

JIG No.	VALUE @ 2" DIAM	JIG CAL DATE	JIG VALUE	SDU @ g/cm³	ins. cps
JIG MARK SHOWN AT ABOVE VALUE -		JIG No	SPAN	NORM $\frac{SDU}{CPS}$ =	ins cps

GAMMA RAY	DEPTH	BULK DENSITY g/cm³	CALIPER INCHES

HOLE SIZE CORRECTION DATA

GAMMA RAY	DEPTH	BULK DENSITY g/cm³	CALIPER INCHES

BOREHOLE QMD8103 AREA FRAME
CLIENT DENISON MINES COUNTRY CANADA

COAL LITHOLOGY LOG

MY A50261 R

Pr- Quintette 81(3)A

COAL LITHOLOGY LOG

B P B

BOREHOLE	QMD8103
CLIENT	DENISON MINES
AREA	FRAME
COUNTRY	CANADA
DATE LOGGED	18/09/81
DEPTH SCALE	200:1

1 OF 7 LOGS

SONDE TYPE:
COAL
COMBINATION
SONDE

LOG SUITE:
GAMMA RAY
L.S. DENSITY
CALIPER

BOREHOLE DATA

PERMANENT DATUM	FLOOR			
ELEVATION OF P.D.				
MEASUREMENTS FROM	BPB FLOOR		DRILLER FLOOR	
DEPTH REACHED	280		280	
CASING SHOE				
BIT SIZES	1 HQ TO TD	2	TO	
	3 TO	4	TO	
CASING SIZES	1 TO	2	TO	

FLUID DATA

NATURE	MUD
S.G.	
LEVEL	
VISCOSITY	
Rm at meas. temp.	
B.H.T.	

OPERATION DATA

FIRST READING	280
LAST READING	0
INTERVAL LOGGED	280
UNIT-TRUCK No.	HELI-BOX
ENGINEER	DR/SM
WITNESS	

615

EQUIPMENT AND RECORDING DATA

COAL COMBINATION SONDE

LOG	EQUIPMENT			TAPING			PANEL			CAL COEFF	DEPTHS			SEAM LOG RUN
	SONDE	SOURCE	CALIBRATOR	LOG TAPED	RECORD SPEED	DIRECT or REPLAY	SPEED	T.C. SECS	NORM		FROM	TO	INTERVAL	
GAMMA RAY	101			Y	9	D	9	1		1.54	280	0	280	
L.S. DENSITY				Y	9	D	9	1	8.		280	0	280	
CALIPER	SIDEWALL POSITION			Y	9	D	9	3			280	0	280	

COAL QUALITY/SEAM THICKNESS LOG INTERVALS (Refer to relevant log)

FROM		INTERVAL TOTAL
TO		
INTERVAL		=

ADDITIONAL SONDES RUN

SONDE	LOG	GENERAL SCALE LOG	DETAIL SCALE LOG
204	N-N	200:1	
	SONIC	200:1	
217	VERT	200:1	

REFER TO ADDITIONAL HEADINGS

REMARKS

FIRST RUN OF CCS. AND NEUTRON LOGGED THROUGH RODS

BPB COAL LITHOLOGY LOG

CALIBRATION DATA

JIG No. VALUE @ 2" DIAM	JIG CAL DATE	JIG VALUE	SDU @ g/cm³ ins. cps
JIG MARK SHOWN AT ABOVE VALUE -	JIG No	SPAN	NORM SDU/CPS = ins cps.

GAMMA RAY	DEPTH	BULK DENSITY g/cm³	CALIPER INCHES

HOLE SIZE CORRECTION DATA

GAMMA RAY	DEPTH	BULK DENSITY g/cm³	CALIPER INCHES

B P B

BOREHOLE QMD8103
AREA FRAME
CLIENT DENISON MINES
COUNTRY CANADA

COAL LITHOLOGY LOG

MY A50261 R

COAL QUALITY LOG

SONDE TYPE:
COAL
COMBINATION
SONDE

LOG SUITE:
GAMMA RAY
L.S. DENSITY

BOREHOLE QMD8102
CLIENT DENISON MINES
AREA FRAME
COUNTRY CANADA
DATE LOGGED 08/09/81

DEPTH SCALE 200:1

6 OF 6 LOGS

BOREHOLE DATA REFER TO LITHOLOGY LOG

OPERATION DATA REFER TO LITHOLOGY LOG

EQUIPMENT AND RECORDING DATA

COAL COMBINATION SONDE SIDEWALL POSITION

LOG	LOG TAPED	RECORD SPEED	DIRECT or REPLAY	SPEED	PANEL T.C. SECS	NORM	CAL COEFF
GAMMA RAY	Y	2	R	2	2		1.54
L.S. DENSITY	Y	2	R	2	1	8.2	

SOURCE, SONDE AND CALIBRATION REFER TO LITHOLOGY LOG

COAL QUALITY LOG INTERVALS

FROM	146	99	75	55	22	
TO	136	89	64	43	18	
INTERVAL	10	10	11	12	4	INTER-VAL TOTAL =47

REMARKS

615

RE-QUINTETTE 81 (3)A

BPB COAL QUALITY LOG

	DEPTH	GAMMA RAY
		COAL BULK DENSITY g/cm3

HOLE SIZE CORRECTION DATA

		COAL BULK DENSITY g/cm3
	DEPTH	GAMMA RAY

BOREHOLE QMD8102
CLIENT DENISON MINES
AREA FRAME
COUNTRY CANADA

COAL QUALITY LOG

MY 88002 R

SEAM THICKNESS LOG

SONDE TYPE
COAL
COMBINATION
SONDE

LOG SUITE
CALIPER
B.R. DENSITY

BOREHOLE QMD8102
CLIENT DENISON MINES

AREA FRAME
COUNTRY CANADA
DATE LOGGED 08/09/81

DEPTH SCALE 200:1

5 OF 6 LOGS

BOREHOLE DATA: REFER TO LITHOLOGY LOG

OPERATION DATA: REFER TO LITHOLOGY LOG

EQUIPMENT AND RECORDING DATA

COAL COMBINATION SONDE

SIDEWALL POSITION

LOG	TAPING: LOG TAPED	TAPING: RECORD SPEED	PANEL: DIRECT or REPLAY	PANEL: SPEED	PANEL: T.C. SECS NORM	CAL COEFF
CALIPER	Y	2	R	2	.3	
B.R. DENSITY	Y	2	R	2	.3	7.3

SOURCE, SONDE AND CALIBRATION
REFER TO LITHOLOGY LOG

SEAM THICKNESS LOG INTERVALS

FROM	146	99	75	55	22	
TO	136	89	64	43	18	
INTERVAL	10	10	11	12	4	INTERVAL TOTAL = 47
FROM						
TO						
INTERVAL						

REMARKS

6/5

B P B SEAM THICKNESS LOG

CALIPER INCHES	DEPTH	BED RESOLUTION DENSITY
7" 6" 5" dia 4" 3" 2"		25000 SBRDU 13000

CALIPER INCHES	DEPTH	BED RESOLUTION DENSITY
7" 6" 5" dia 4" 3" 2"		25000 SBRDU 13000

BOREHOLE QMD8102
CLIENT DENISON MINES

AREA FRAME
COUNTRY CANADA

SEAM THICKNESS LOG

MY 88002 R

PR-QUINTETTE 81(3)A

SONIC

BOREHOLE QMD8102
CLIENT DENISON MINES

AREA FRAME
COUNTRY CANADA
DATE LOGGED 08/09/81

DEPTH SCALE 200:1

4 OF 6 LOGS

BOREHOLE DATA REFER TO LITHOLOGY LOG

OPERATION DATA REFER TO " LOG

EQUIPMENT AND RECORDING DATA

LOG	TAPING			PANEL			CAL COEFF
	LOG TAPED	RECORD SPEED	DIRECT or REPLAY	SPEED	T C SECS	NORM	
SONIC	Y	9	D	9	.3		

SONDE NO

SOURCE NO

REMARKS

Hole Drilled At 60° L.

615

BOREHOLE QMD8102
CLIENT DENISON MINES

AREA FRAME
COUNTRY CANADA

MY A58452R

FR - QUINTETTE
81(3)A

NEUTRON-NEUTRON
GAMMA LOG

BOREHOLE QMD8102
CLIENT DENISON MINES

AREA FRAME
COUNTRY CANADA
DATE LOGGED 08/09/81

DEPTH SCALE 200:1

3 OF 6 LOGS

BOREHOLE DATA REFER TO LITHOLOGY LOG

OPERATION DATA REFER TO " LOG

EQUIPMENT AND RECORDING DATA

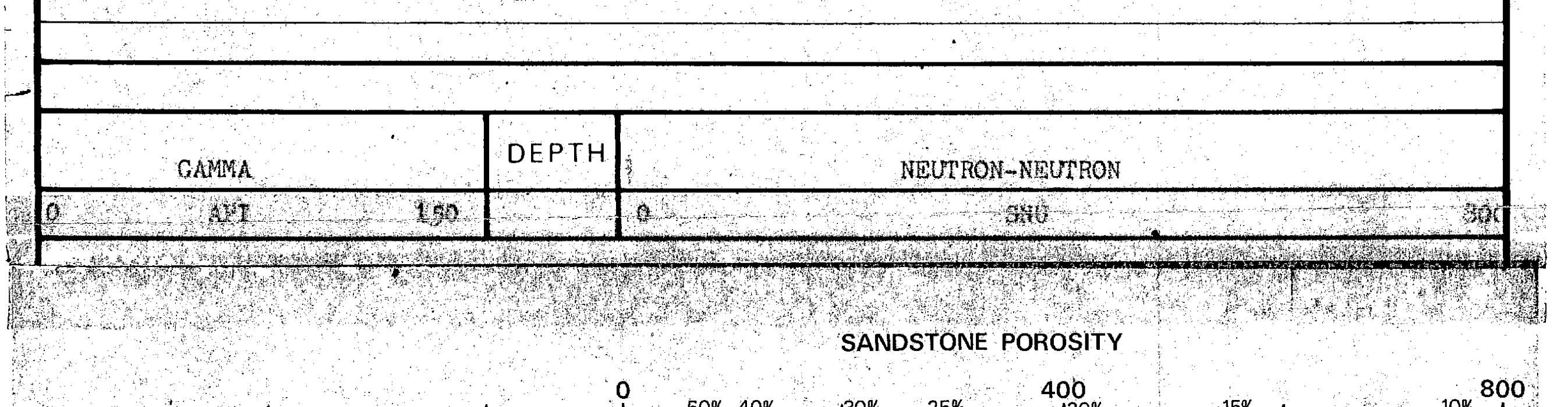
LOG	TAPING			PANEL			CAL COEFF
	LOG TAPED	RECORD SPEED	DIRECT or REPLAY	SPEED	T C SECS	NORM	
N-N	Y	9	D	9	1		.74
GAMMA	Y	9	R	9	1		1.54
		SONDE NO	204	SOURCE NO	6787		

REMARKS
Hole Drilled At 60° L.

615

GAMMA	DEPTH	NEUTRON-NEUTRON
0 API 150		0 SNU 800

SANDSTONE POROSITY



MY (1) A58451 R

0 API 150		0 SNU 800
GAMMA	DEPTH	NEUTRON-NEUTRON

BOREHOLE QMD8102
CLIENT DENISON MINES

AREA FRAME
COUNTRY CANADA

MY A58452R

PR-QUINTETTE 81(3)A

BOREHOLE QMD8102
CLIENT DENISON MINES
AREA FRAME
COUNTRY CANADA
DATE LOGGED 08/09/81
DEPTH SCALE 200:1
2 OF 6 LOGS

COAL LITHOLOGY LOG

SONDE TYPE:
COAL COMBINATION SONDE

LOG SUITE:
GAMMA RAY
L. S. DENSITY
CALIPER

BOREHOLE DATA

PERMANENT DATUM	FLOOR	
ELEVATION OF P.D		
	BPB	DRILLER
MEASUREMENTS FROM	FLOOR	FLOOR
DEPTH REACHED	187	196
CASING SHOE		
BIT SIZES	1 TO	2 TO
	3 TO	4 TO
CASING SIZES	1 TO	2 TO

FLUID DATA

NATURE	MUD
S.G	
LEVEL	
VISCOSITY	
Rm at meas. temp	
B.H.T.	

615

OPERATION DATA

FIRST READING	187
LAST READING	0
INTERVAL LOGGED	187
UNIT-TRUCK No.	HELI-BOX
ENGINEER	DR/SM
WITNESS	

EQUIPMENT AND RECORDING DATA

COAL COMBINATION SONDE

LOG	EQUIPMENT			TAPING			PANEL			CAL COEFF	DEPTHS			SEAM LOG RUN
	SONDE	SOURCE	CALIBRATOR	LOG TAPED	RECORD SPEED	DIRECT or REPLAY	SPEED	T.C SECS	NORM		FROM	TO	INTERVAL	
GAMMA RAY	101			Y	9	D	9	1		1.54	187	0	187	
L.S DENSITY				Y	9	D	9	.3	8.2		187	0	187	
CALIPER	SIDEWALL POSITION			Y	9	D	9	.3			187	0	187	

COAL QUALITY/SEAM THICKNESS LOG INTERVALS (Refer to relevant log)

FROM
TO
INTERVAL
INTERVAL TOTAL

ADDITIONAL SONDES RUN

SONDE	LOG	GENERAL SCALE LOG	DETAIL SCALE LOG	
204	N-N	200:1		REFER TO ADDITIONAL HEADINGS
	SONIC	200:1		

REMARKS

LOGGED THROUGH RODS
HOLE DRILLED AT 60° L.

BPB COAL LITHOLOGY LOG

CALIBRATION DATA

JIG No VALUE @ 2" DIAM
JIG MARK SHOWN AT ABOVE VALUE -
JIG CAL DATE JIG VALUE SDU @ g/cm³ ins cps
JIG No SPAN NORM $\frac{SDU}{CPS}$ = ins cps

BOREHOLE QMD8102 AREA FRAME
CLIENT DENISON MINES COUNTRY CANADA

COAL LITHOLOGY LOG

MY A50261 R

PR- QUINTETTE 81(3)A

BPB

COAL LITHOLOGY LOG

SONDE TYPE:
COAL
COMBINATION
SONDE

LOG SUITE:
GAMMA RAY
L.S. DENSITY
CALIPER

BOREHOLE QMD8102
CLIENT DENISON MINES

AREA FRAME
COUNTRY CANADA
DATE LOGGED 08/09/81

DEPTH SCALE 200:1

1 OF 6 LOGS

BOREHOLE DATA

PERMANENT DATUM	FLOOR	
ELEVATION OF P D		
MEASUREMENTS FROM	BPB FLOOR	DRILLER FLOOR
DEPTH REACHED	193.5	196
CASING SHOE		
BIT SIZES	1 TO	2 TO
	3 TO	4 TO
CASING SIZES	1 TO	2 TO

FLUID DATA

NATURE	MUD
S.G.	
LEVEL	
VISCOSITY	
Rm at meas. temp.	
B.H.T.	

OPERATION DATA

615

FIRST READING	193.5
LAST READING	0
INTERVAL LOGGED	193.5
UNIT-TRUCK No.	HELI-BOX
ENGINEER	DB/SM
WITNESS	

EQUIPMENT AND RECORDING DATA

COAL COMBINATION SONDE

LOG	EQUIPMENT			TAPING			PANEL			CAL COEFF	DEPTHS			SEAM LOG RUN
	SONDE	SOURCE	CALIBRATOR	LOG TAPED	RECORD SPEED	DIRECT or REPLAY	SPEED	TC SECS	NORM		FROM	TO	INTERVAL	
GAMMA RAY	101			Y	9	D	9	1		1.54	192	0	192	Y
L.S DENSITY				Y	9	D	9	.3	8.2		193.5	0	193.5	Y
CALIPER	SIDEWALL POSITION			Y	9	D	9	.3			192	0	192	Y

COAL QUALITY/SEAM THICKNESS LOG INTERVALS (Refer to relevant log)

						INTERVAL TOTAL
FROM	146	99	75	55	22	
TO	136	89	64	43	18	= 47
INTERVAL	10	10	11	12	4	

ADDITIONAL SONDES RUN

SONDE	LOG	GENERAL SCALE LOG	DETAIL SCALE LOG
204	N-N	200:1	
	SONIC	200:1	

REFER TO ADDITIONAL HEADINGS

REMARKS

FIRST RUN OF CCS. AND NEUTRON
RUN THROUGH RODS

BPB COAL LITHOLOGY LOG

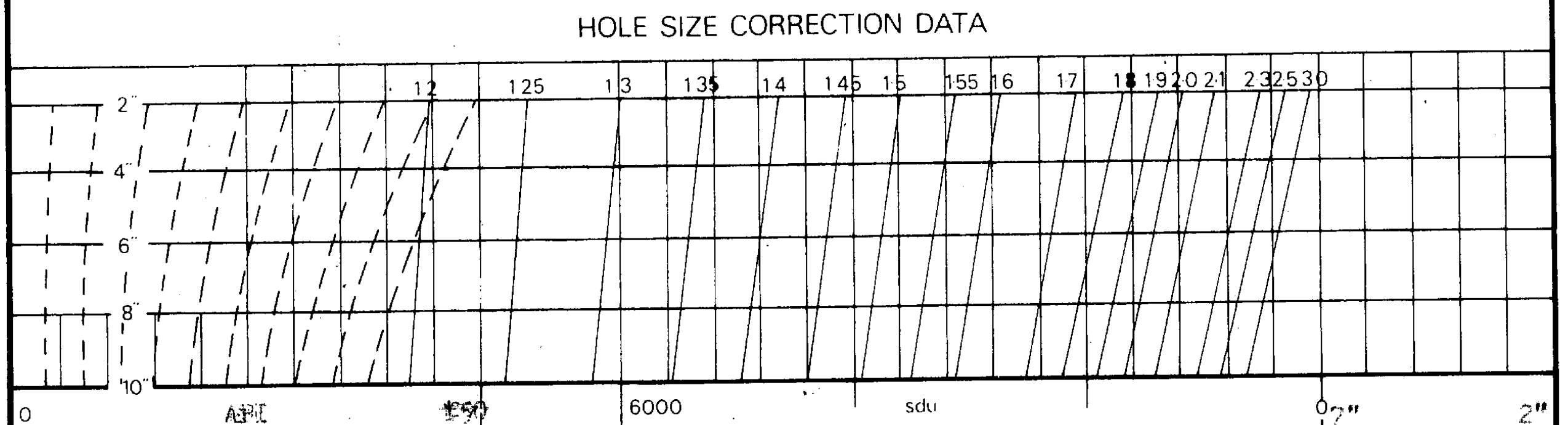
CALIBRATION DATA

JIG No VALUE @ 2" DIAM
JIG MARK SHOWN AT ABOVE VALUE -

JIG CAL DATE JIG VALUE SDU @ g/cm³ ins cps
JIG No SPAN NORM SDU/CPS = ins cps

GAMMA RAY	DEPTH	BULK DENSITY g/cm³	CALIPER INCHES

HOLE SIZE CORRECTION DATA



GAMMA RAY	DEPTH	BULK DENSITY g/cm³	CALIPER INCHES

BPB

BOREHOLE QMD8102
CLIENT DENISON MINES
AREA FRAME
COUNTRY CANADA

COAL LITHOLOGY LOG

MY A50261 R

PR-QUINTETTE 81(2)A

COAL QUALITY LOG

BOREHOLE QMD8101
CLIENT DENISON MINES
AREA FRAME
COUNTRY CANADA
DATE LOGGED 29/08/81

DEPTH SCALE 200:1

6 OF 6 LOGS

SONDE TYPE
COAL COMBINATION SONDE

LOG SUITE:
GAMMA RAY
L.S DENSITY

BOREHOLE DATA REFER TO LITHOLOGY LOG

OPERATION DATA REFER TO LITHOLOGY LOG

EQUIPMENT AND RECORDING DATA

COAL COMBINATION SONDE

SIDEWALL POSITION

	TAPING			PANEL			
LOG	LOG TAPED	RECORD SPEED	DIRECT or REPLAY	SPEED	T.C SECS	NORM	CAL COEFF
GAMMA RAY	Y	2	R	2	2		1.51
LS DENSITY	Y	2	R	2	2	7.9	

SOURCE. SONDE AND CALIBRATION
REFER TO LITHOLOGY LOG

COAL QUALITY LOG INTERVALS

FROM	93	53	34	
TO	85	45	30	
INTERVAL	8	8	4	
FROM				INTER-VAL TOTAL
TO				
INTERVAL				=

REMARKS Hole logged in HQ drill rods.

615

BPB COAL QUALITY LOG

	DEPTH	GAMMA RAY
		COAL BULK DENSITY g/cm3

		COAL BULK DENSITY g/cm3
	DEPTH	GAMMA RAY

BOREHOLE QFD8101
CLIENT DENISON MINES
AREA FRAME
COUNTRY CANADA

COAL QUALITY LOG

PR-QUINTETTE 81 (3)A

BPB

BOREHOLE QMD8101
CLIENT DENISON MINES

AREA FRAME
COUNTRY CANADA
DATE LOGGED 29/08/81

DEPTH SCALE 200:1

5 OF 6 LOGS

SEAM THICKNESS LOG

BOREHOLE DATA	REFER TO LITHOLOGY LOG
OPERATION DATA	REFER TO LITHOLOGY LOG

EQUIPMENT AND RECORDING DATA

COAL COMBINATION SONDE

SIDEWALL POSITION

LOG	TAPING			PANEL			CAL COEFF
	LOG TAPED	RECORD SPEED	DIRECT or REPLAY	SPEED	T.C. SECS	NORM	
CALIPER	Y	2	R	2	.3		
B.R. DENSITY	Y	2	R	2	.3		7.35

SOURCE, SONDE AND CALIBRATION
REFER TO LITHOLOGY LOG

SONDE TYPE
COAL
COMBINATION
SONDE

SEAM THICKNESS LOG INTERVALS

FROM	93	59	35	
TO	85	47	26	
INTERVAL	8	6	9	
FROM				INTERVAL
TO				TOTAL
INTERVAL				23

LOG SUITE:
CALIPER
B.R. DENSITY

REMARKS
615

B P B SEAM THICKNESS LOG

CALIPER INCHES
DEPTH
BED RESOLUTION DENSITY

BPB

BOREHOLE QMD8101
CLIENT DENISON MINES
AREA FRAME
COUNTRY CANADA

SEAM THICKNESS LOG

MY 8800

Pa. QUINTETTE 81(3)A

SONIC

BOREHOLE QMD8101
CLIENT DENISON MINES

AREA FRAME
COUNTRY CANADA
DATE LOGGED 30 /08/81

DEPTH SCALE 200: 1

3 OF 5 LOGS

BOREHOLE DATA REFER TO LITHOLOGY LOG

OPERATION DATA REFER TO LITHOLOGY LOG

EQUIPMENT AND RECORDING DATA

LOG	TAPING			PANEL			CAL COEFF
	LOG TAPED	RECORD SPEED	DIRECT or REPLAY	SPEED	T C SECS	NORM	
SONIC	Y	9	D	9	.3		

SONDE NO
SOURCE NO

REMARKS
ANGLE HOLE- NO DIPMETER
CALIPER SPIKES
LOGGED THROUGH RODS

6/S

MEDIUM SPACED	DEPTH	HIGH RESOLUTION
150 Micro sec. per ft. 30		150 Micro sec. per ft. 30

150 Micro sec. per ft. 30		150 Micro sec. per ft. 30
MEDIUM SPACED	DEPTH	HIGH RESOLUTION

BOREHOLE QMD8101
CLIENT DENISON MINES
AREA FRAME
COUNTRY CANADA

MY A58452R

PR-QUINTETTE 81(3)A

NEUTRON-NEUTRON
GAMMA LOG

BOREHOLE QMD8101
CLIENT DENISON MINES

AREA FRAME
COUNTRY CANADA
DATE LOGGED 30 /08/81

DEPTH SCALE 200:1

2 OF 5 LOGS

BOREHOLE DATA	REFER TO LITHOLOGY LOG
OPERATION DATA	REFER TO LITHOLICY LOG

EQUIPMENT AND RECORDING DATA

LOG	TAPING			PANEL			CAL COEFF
	LOG TAPED	RECORD SPEED	DIRECT or REPLAY	SPEED	T C SECS	NORM	
N-N	Y	9	-D	9	1	6.0	
GAMMA	Y	9	D	9	1	-	1.51
		SONDE NO	204	SOURCE NO	6787		

REMARKS
ANGLE HOLE- NO DIPMETER
CALIPER SPIKES
LOGGED THROUGH RODS

615

BOREHOLE QMD8101
CLIENT DENISON MINES
AREA FRAME
COUNTRY CANADA

MY A58452R

PR-QUINTETTE 8(3)a

BPB

BOREHOLE QMD8101
CLIENT DENISON MINES

AREA FRAME
COUNTRY CANADA
DATE LOGGED 30 /08/81

DEPTH SCALE 200:1

1 OF 5 LOGS

COAL LITHOLOGY LOG

SONDE TYPE
COAL
COMBINATION
SONDE

LOG SUITE
GAMMA RAY
L.S. DENSITY
CALIPER

BOREHOLE DATA

PERMANENT DATUM	GROUNDLEVEL			
ELEVATION OF P.D.				
	BPB		DRILLER	
MEASUREMENTS FROM	GL		GL	
DEPTH REACHED	148		157	
CASING SHOE	20m		20m	
BIT SIZES	1	3.5 TO TD	2	TO
	3	TO	4	TO
CASING SIZES	1	TO	2	TO

FLUID DATA

NATURE	MUD
S.G	
LEVEL	-
VISCOSITY	
Rm at meas. temp	
B.H.T.	

OPERATION DATA

615

FIRST READING	148
LAST READING	0
INTERVAL LOGGED	148
UNIT-TRUCK No.	HELI-BOX
ENGINEER	
WITNESS	

EQUIPMENT AND RECORDING DATA

COAL COMBINATION SONDE

LOG	EQUIPMENT			TAPING			PANEL			CAL COEFF	DEPTHS			SEAM LOG RUN
	SONDE	SOURCE	CALIBRATOR	LOG TAPED	RECORD SPEED	DIRECT or REPLAY	SPEED	TC SECS	NORM		FROM	TO	INTERVAL	
GAMMA RAY	101			Y	9	D	9	1		1.51	148	0	148	
L.S DENSITY				Y	9	D	9	.3	7.9		149	0	149	
CALIPER	SIDEWALL POSITION			Y	9	D	9	.3			148	0	148	

COAL QUALITY/SEAM THICKNESS LOG INTERVALS (Refer to relevant log)

FROM	93	53	34	INTERVAL TOTAL
TO	85	45	30	
INTERVAL	8	8	4	= 20

ADDITIONAL SONDES RUN

SONDE	LOG	GENERAL SCALE LOG	DETAIL SCALE LOG
204	N-N	200:1	
	SONIC	200:1	
2			

REFER TO ADDITIONAL HEADINGS

REMARKS

LOGGED THROUGH RODS
ANGLE HOLE- NO DIPMETER
CALIPER SPIKES

BPB COAL LITHOLOGY LOG

CALIBRATION DATA

JIG No	VALUE 337 @ 2" DIAM
JIG MARK SHOWN AT ABOVE VALUE -	

JIG CAL DATE 29/7/81	JIG VALUE 3680 SDU @ 1.0g/cm³	2 ins. 500 cps
JIG No 0041	SPAN 6000 NORM $\frac{SDU}{CPS}$ = 7.9	7 ins 912 cps

GAMMA RAY	DEPTH	BULK DENSITY g/cm³	CALIPER INCHES

GAMMA RAY	DEPTH	BULK DENSITY g/cm³	CALIPER INCHES

BPB

BOREHOLE QMD8101
AREA FRAME
CLIENT DENISON MINES
COUNTRY CANADA

COAL LITHOLOGY LOG

MY A50261 R

PR-QUINTETTE 81(8)

COAL LITHOLOGY LOG

BOREHOLE QBD 8106
CLIENT DENISON

AREA BABCOCK
COUNTRY CANADA
DATE LOGGED 25/10/81

DEPTH SCALE 200:1

1 OF 6 LOGS

SONDE TYPE
COAL COMBINATION SONDE

LOG SUITE
GAMMA RAY
L. S. DENSITY
CALIPER

BOREHOLE DATA

PERMANENT DATUM	GROUND LEVEL	
ELEVATION OF P D	"	"
MEASUREMENTS FROM	BPB G.L.	DRILLER G.L.
DEPTH REACHED	481	483m
CASING SHOE	370m	
BIT SIZES	1 TO	2 TO
	3 TO	4 TO
CASING SIZES	1 TO	2 TO

FLUID DATA

NATURE	
S.G	
LEVEL	175m
VISCOSITY	
Rm at meas temp	
BHT	

OPERATION DATA

FIRST READING	340m
LAST READING	0
INTERVAL LOGGED	340m
UNIT-TRUCK No.	
ENGINEER	DW/RW
WITNESS	

615

EQUIPMENT AND RECORDING DATA

COAL COMBINATION SONDE

LOG	EQUIPMENT			TAPING			PANEL			CAL COEFF	DEPTHS			SEAM LOG RUN
	SONDE	SOURCE	CALIBRATOR	LOG TAPED	RECORD SPEED	DIRECT or REPLAY	SPEED	TC SECS	NORM		FROM	TO	INTERVAL	
GAMMA RAY	101			y	9	d	9	1		1.43	340m	0	340m	y
L S DENSITY	SIDEWALL POSITION	5822		y	9	d	9	1.3	8.28		341m	0	341m	y
CALIPER				y	9	d	9	1.3			341m	0	341m	y

COAL QUALITY/SEAM THICKNESS LOG INTERVALS (Refer to relevant log)

								INTERVAL TOTAL
FROM	417	383	332	320	93	44	24	
TO	413	380	325	316	72	38	18	
INTERVAL	4	3	7	4	21	6	6	= 51m

ADDITIONAL SONDES RUN

SONDE	LOG	GENERAL SCALE LOG	DETAIL SCALE LOG
204	N-N		
217/204	DIP		

REFER TO ADDITIONAL HEADINGS

REMARKS

RODS IN HOLE FROM 360m to 335m SO HOLE LOGGED FROM 340m

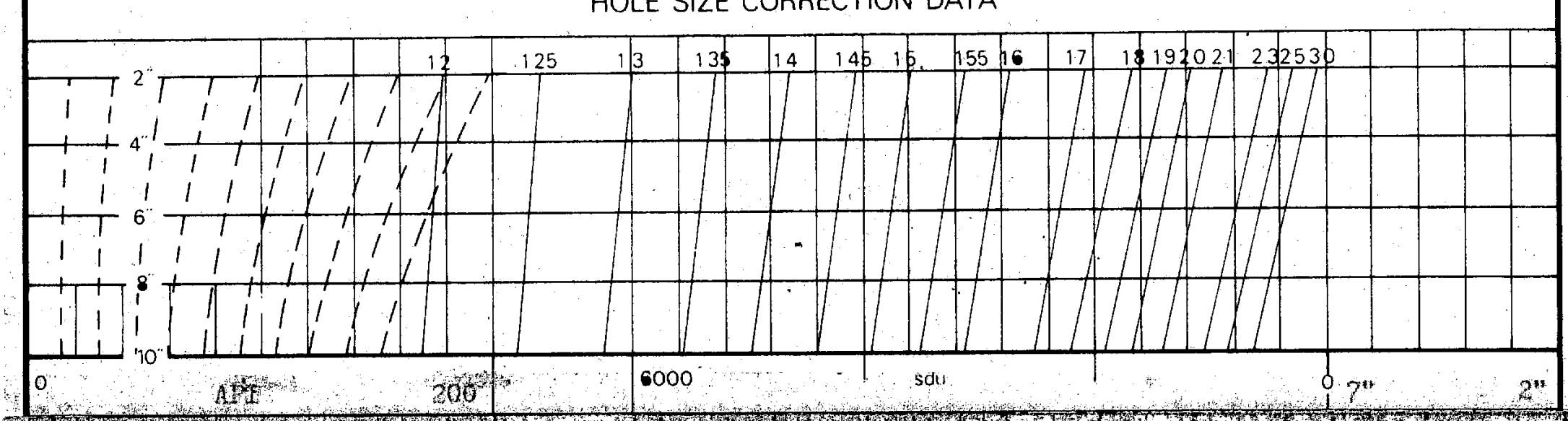
BPB COAL LITHOLOGY LOG

CALIBRATION DATA

JIG No VALUE @ 2" DIAM
JIG MARK SHOWN AT ABOVE VALUE -
JIG CAL DATE JIG VALUE SDU @ g/cm3 ins cps
JIG No SPAN NORM SDU/CPS = ins cps

GAMMA RAY	DEPTH	BULK DENSITY g/cm3	CALIPER INCHES

HOLE SIZE CORRECTION DATA



0 API 200 6000 sdu 0 7" 2"

0 API 200 6000 sdu 0 7" 2"

GAMMA RAY	DEPTH	BULK DENSITY g/cm3	CALIPER INCHES

BOREHOLE QBD 8106 AREA BABCOCK
CLIENT DENISON COUNTRY CANADA

COAL LITHOLOGY LOG

MY A50261 R

GAMMA RAY & NEUTRON-NEUTRON LOGS

BOREHOLE QBD 8106
CLIENT DENISON

AREA BABCOCK
COUNTRY CANADA
DATE LOGGED 25/10/81

DEPTH SCALE 200:1

1 OF 6 LOGS

BOREHOLE DATA REFER TO LITHOLOGY LOG

OPERATION DATA REFER TO • LOG

EQUIPMENT AND RECORDING DATA

LOG	LOG TAPED	RECORD SPEED	DIRECT or REPLAY	SPEED	T.C SECS	NORM	CAL COEFF
GAMMA	Y	9	d	9	1		1.43
N-N	Y	9	D	9	1	.74	

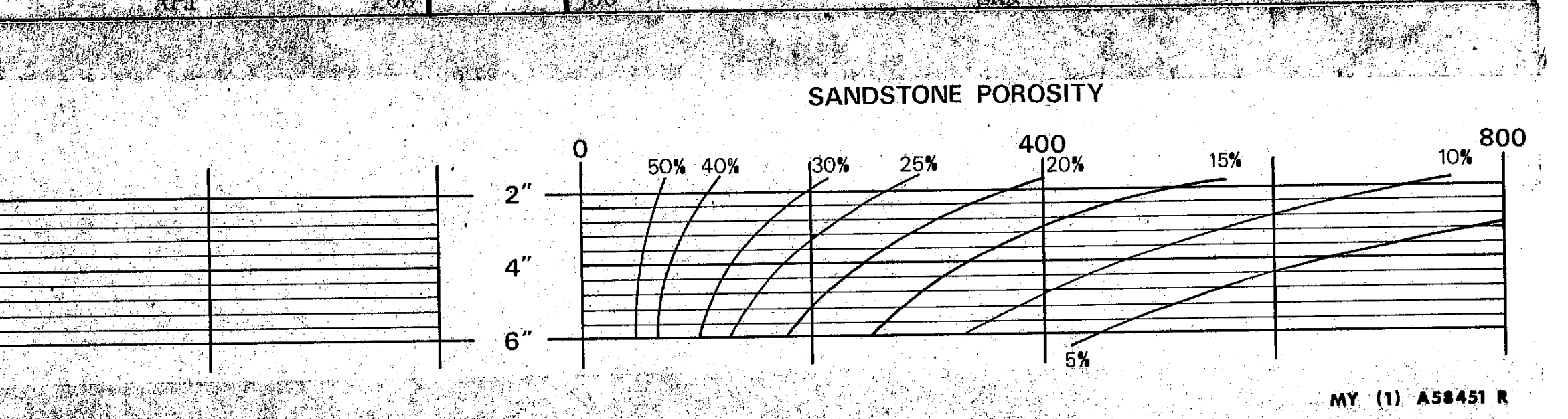
SONDE NO 204 SOURCE NO 6787

REMARKS

615

Re. QUINTETTE 81(3)A

GAMMA RAY	DEPTH	NEUTRON-NEUTRON
0 API 200		500 snu 1500



0 API 200		0 snu 800
GAMMA RAY	DEPTH	NEUTRON-NEUTRON

BOREHOLE QBD 8106
CLIENT DENISON
AREA BABCOCK
COUNTRY CANADA

MY A58452R

PR-QUINTETTE 81(3A)

BPB

GAMMA RAY & NEUTRON-NEUTRON LOGS

BOREHOLE QBD 8106
CLIENT DENISON

AREA BABCOCK
COUNTRY CANADA
DATE LOGGED 24/10/81

DEPTH SCALE 2.200:1

1 OF 7 LOGS

BOREHOLE DATA REFER TO LITHOLOGY LOG

OPERATION DATA REFER TO " LOG

EQUIPMENT AND RECORDING DATA

LOG	TAPING		PANEL			CAL COEFF
	LOG TAPED	RECORD SPEED	DIRECT or REPLAY	SPEED	T.C. SECS	NORM	
GAMMA	Y	9	D	9	1		1.43
N-N	Y	9	D	9	1	.74	
	SONDE NO	204	SOURCE NO	6787			

REMARKS

615

GAMMA RAY	DEPTH	NEUTRON-NEUTRON
0 API 200		0 snu 800

0 API 200		0 snu 800
GAMMA RAY	DEPTH	NEUTRON-NEUTRON

BPB

BOREHOLE QBD 8106
CLIENT DENISON
AREA BABCOCK
COUNTRY CANADA

MY A58452R

Re-QUINTETTE 81(3)A

COAL LITHOLOGY LOG

BOREHOLE QBD 8106
CLIENT DENISON
AREA BABCOCK
COUNTRY DENISON
DATE LOGGED 24/10/81

DEPTH SCALE 200:1
1 OF 1 LOGS

SONDE TYPE
COAL COMBINATION SONDE

LOG SUITE
GAMMA RAY
L.S. DENSITY
CALIPER

BOREHOLE DATA

	BPB	DRILLER
PERMANENT DATUM	GROUND LEVEL	
ELEVATION OF P.D	"	"
MEASUREMENTS FROM	GROUND LEVEL	GROUND LEVEL
DEPTH REACHED	480m	483m
CASING SHOE	370m	
BIT SIZES	1 TO / 3 TO	2 TO / 4 TO
CASING SIZES	1 TO	2 TO

FLUID DATA

NATURE	
S.G	
LEVEL	175m
VISCOSITY	
Rm at meas temp	
BHT	

OPERATION DATA

FIRST READING	480m
LAST READING	0
INTERVAL LOGGED	480m
UNIT-TRUCK No.	
ENGINEER	TW/EW
WITNESS	

6/5

EQUIPMENT AND RECORDING DATA

COAL COMBINATION SONDE

LOG	EQUIPMENT			TAPING			PANEL			CAL COEFF	DEPTHS			SEAM LOG RUN
	SONDE	SOURCE	CALIBRATOR	LOG TAPED	RECORD SPEED	DIRECT or REPLAY	SPEED	TC SECS	NORM		FROM	TO	INTERVAL	
GAMMA RAY	101			yr	9	d	9	1		1.43	480	0	480m	y
L.S DENSITY		5822		y	9	d	9	.3	8.28		481	0	481m	y
CALIPER	SIDEWALL POSITION			y	9	d	9	.3			481m	0	481m	y

COAL QUALITY/SEAM THICKNESS LOG INTERVALS (Refer to relevant log)

FROM		INTERVAL TOTAL
TO		
INTERVAL		

ADDITIONAL SONDES RUN

SONDE	LOG	GENERAL SCALE LOG	DETAIL SCALE LOG
204	N-N		
217/204	DIP		

REFER TO ADDITIONAL HEADINGS

REMARKS

ALSO LOGGED 340m-0 OPEN HOLE

BPB COAL LITHOLOGY LOG

CALIBRATION DATA

JIG No VALUE @ 2" DIAM
JIG MARK SHOWN AT ABOVE VALUE -
JIG CAL DATE JIG VALUE SDU @ g/cm³ ins cps
JIG No SPAN NORM SDU/CPS = ins. cps

GAMMA RAY	DEPTH	BULK DENSITY g/cm³	CALIPER INCHES

HOLE SIZE CORRECTION DATA

0 API 200		6000 sdu	0 7" 2"
GAMMA RAY	DEPTH	BULK DENSITY g/cm³	CALIPER INCHES

BOREHOLE QBD 8106 AREA BABCOCK
CLIENT DENISON COUNTRY CANADA

COAL LITHOLOGY LOG

MY A50261 R

PR-QUINTETTE 81(3)A

COAL QUALITY LOG

SONDE TYPE: COAL COMBINATION SONDE

LOG SUITE: GAMMA RAY L.S. DENSITY

BOREHOLE QBD 8106
CLIENT DENISON

AREA BABCOCK
COUNTRY CANADA
DATE LOGGED 25/10/81

DEPTH SCALE 20:1

1 OF 7 LOGS

BOREHOLE DATA — REFER TO LITHOLOGY LOG

OPERATION DATA — REFER TO LITHOLOGY LOG

EQUIPMENT AND RECORDING DATA

COAL COMBINATION SONDE — SIDEWALL POSITION

LOG	TAPED	RECORD SPEED	DIRECT or REPLAY	PANEL SPEED	T.C. SECS	NORM	CAL COEFF
GAMMA RAY	y	2	r	2	2		
L.S. DENSITY	y	2	r	2	1	8.23	2.43

SOURCE, SONDE AND CALIBRATION — REFER TO LITHOLOGY LOG

COAL QUALITY LOG INTERVALS

FROM	417	383	332	320	93	44	24
TO	413	380	325	316	72	38	18
INTERVAL	4	3	7	4	21	6	6

INTER-VAL TOTAL 51

REMARKS

6/5

BPB COAL QUALITY LOG

	DEPTH	GAMMA RAY
		COAL BULK DENSITY g/cm³

HOLE SIZE CORRECTION DATA

		6,000 s d u 0
		200 API 0
		COAL BULK DENSITY g/cm³
	DEPTH	GAMMA RAY

BOREHOLE QBD 8106
CLIENT DENISON

AREA BABCOCK
COUNTRY CANADA

COAL QUALITY LOG

MY/88002 R

PR-QUINTETTE 81(3)A

BPB

SEAM THICKNESS LOG

SONDE TYPE
COAL
COMBINATION
SONDE

LOG SUITE
CALIPER
B.R DENSITY

BOREHOLE QBD 8106
CLIENT DENISON

AREA BABCOCK
COUNTRY CANADA
DATE LOGGED 25/10/81

DEPTH SCALE 20:1

1 OF 7 LOGS

BOREHOLE DATA REFER TO LITHOLOGY LOG

OPERATION DATA REFER TO LITHOLOGY LOG

EQUIPMENT AND RECORDING DATA

COAL COMBINATION SONDE

SIDEWALL POSITION

LOG	TAPING LOG TAPED	RECORD SPEED	DIRECT or REPLAY	PANEL SPEED	T.C. SECS	NORM	CAL COEFF
CALIPER	y	2	r	2	1		
B.R DENSITY	y	2	r	2	.3		7.46

SOURCE, SONDE AND CALIBRATION
REFER TO LITHOLOGY LOG

SEAM THICKNESS LOG INTERVALS

FROM	417	383	332	320	93	44	24
TO	413	380	325	316	72	38	18
INTERVAL	4	3	7	4	21	6	6

FROM	
TO	
INTERVAL	
INTERVAL TOTAL	±1m

REMARKS

615

B P B SEAM THICKNESS LOG

CALIPER INCHES	DEPTH	BED RESOLUTION DENSITY

CALIPER INCHES	DEPTH	BED RESOLUTION DENSITY

BPB

BOREHOLE QBD 8106
CLIENT DENISON

AREA BABCOCK
COUNTRY CANADA

SEAM THICKNESS LOG

MY 88002 R

Rd-QUINTETTE 81(3)A

COAL QUALITY LOG

SONDE TYPE:
COAL
COMBINATION
SONDE

LOG SUITE:
GAMMA RAY
L.S. DENSITY

BOREHOLE QBD 8105
CLIENT DENISON
AREA BABCOCK
COUNTRY CANADA
DATE LOGGED 10/10/81

DEPTH SCALE 20 : 1

1 OF 4 LOGS

BOREHOLE DATA REFER TO LITHOLOGY LOG

OPERATION DATA REFER TO LITHOLOGY LOG

EQUIPMENT AND RECORDING DATA

COAL COMBINATION SONDE

SIDEWALL POSITION

LOG	TAPED	RECORD SPEED	DIREC of REPLAY	PANEL SPEED	T.C SECS	NORM	CAL COEFF
GAMMA RAY	X	2	R	2	2		1.54
L.S. DENSITY	X	2	R	2	1	8.01	

SOURCE, SONDE AND CALIBRATION
REFER TO LITHOLOGY LOG

COAL QUALITY LOG INTERVALS

FROM	504	479	430	401	324	315	225	183	
TO	495	470	420	390	318	306	221	178	
INTERVAL	9	9	10	9	6	9	4	5	
FROM									
TO									
INTERVAL									INTERVAL TOTAL 61m =

REMARKS

S/19

BPB COAL QUALITY LOG

	DEPTH	GAMMA RAY
		COAL BULK DENSITY g/cm3

HOLE SIZE CORRECTION DATA

	DEPTH	COAL BULK DENSITY g/cm3
		GAMMA RAY

BOREHOLE QBD 8105
CLIENT DENISON
AREA BABCOCK
COUNTRY FRAME

COAL QUALITY LOG

MY 88002 R

Par-QUINTETTE 81(3)

NEUTRON-NEUTRON

BOREHOLE QBD 8105
CLIENT Denison Mines

AREA Babcock
COUNTRY Canada
DATE LOGGED 10/10/81

DEPTH SCALE 1:200

1 OF 4 LOGS

BOREHOLE DATA REFER TO LOG

OPERATION DATA REFER TO LOG

EQUIPMENT AND RECORDING DATA

LOG	LOG TAPED	RECORD SPEED	DIRECT or REPLAY	SPEED	T.C. SECS	NORM	CAL COEFF
N-N	Y	9	D	9	1	.74	
GAMMA	Y	9	D	9	1		1.54

SONDE NO 204 SOURCE NO 6787

REMARKS

615

GAMMA	DEPTH	NEUTRON-NEUTRON
0 200		0 800

0 200		0 800
GAMMA	DEPTH	NEUTRON-NEUTRON

BOREHOLE QBD 8105
CLIENT Denison Mines

AREA Babcock
COUNTRY Canada

MY A58452R

SEAM THICKNESS LOG

SONDE TYPE: COAL COMBINATION SONDE

LOG SUITE: CALIPER B.R. DENSITY

BOREHOLE QBD 8105
CLIENT DENISON
AREA BABCOCK
COUNTRY CANADA
DATE LOGGED 10/10/81

DEPTH SCALE 20:1

1 OF 4 LOGS

BOREHOLE DATA REFER TO LITHOLOGY LOG

OPERATION DATA REFER TO LITHOLOGY LOG

EQUIPMENT AND RECORDING DATA

COAL COMBINATION SONDE

SIDEWALL POSITION

LOG	LOG TAPED	RECORD SPEED	DIRECT or REPLAY	SPEED	TC SECS	NORM	CAL COEFF
CALIPER	y	2	r	2	.3		
BR DENSITY	y	2	r	2	.3	7.3	

SOURCE SONDE AND CALIBRATION REFER TO LITHOLOGY LOG

SEAM THICKNESS LOG INTERVALS

FROM	504	479	430	401	324	315	225	183	
TO	495	470	420	390	318	306	221	178	
INTERVAL	9	9	10	11	6	9	4	5	TOTAL INTERVAL =63
FROM									
TO									
INTERVAL									

REMARKS

519

Re-QUINTETTE 81(3)

B P B SEAM THICKNESS LOG

SEAM THICKNESS LOG

BOREHOLE QBD 8105
CLIENT DENISON
AREA BABCOCK
COUNTRY CANADA

MY 88002 R

Pre-QUINTETTE 81(3A)

BPB

COAL LITHOLOGY LOG

SONDE TYPE: COAL COMBINATION SONDE

LOG SUITE: GAMMA RAY, L.S. DENSITY, CALIPER

BOREHOLE QBD 8105
CLIENT Denison Mines
AREA Babcock
COUNTRY Canada
DATE LOGGED 10/10/81

DEPTH SCALE 1:200

2 OF 5 LOGS

BOREHOLE DATA

PERMANENT DATUM	GROUND LEVEL	
ELEVATION OF P.D		
MEASUREMENTS FROM	BPB GL	DRILLER GL
DEPTH REACHED	550m	555m
CASING SHOE		
BIT SIZES	1 TO	2 TO
	3 TO	4 TO
CASING SIZES	1 TO	2 TO

FLUID DATA

NATURE	GROUND WATER
S.G	
LEVEL	
VISCOSITY	
Rm at meas. temp	
BHT	

OPERATION DATA

FIRST READING	550m
LAST READING	0m
INTERVAL LOGGED	550-0
UNIT-TRUCK No.	HELI UNIT
ENGINEER	W/M
WITNESS	

615

EQUIPMENT AND RECORDING DATA

COAL COMBINATION SONDE

LOG	EQUIPMENT			TAPING			PANEL			CAL COEFF	DEPTHS			SEAM LOG RUN
	SONDE	SOURCE	CALIBRATOR	LOG TAPED	RECORD SPEED	DIRECT or REPLAY	SPEED	T.C SECS	NORM		FROM	TO	INTERVAL	
GAMMA RAY	SIDEWALL POSITION		1.54	9	9	D	9	1			550	0	550	
L.S. DENSITY		5822	8.0	9	9	D	9	.3			550	0	550	
CALIPER				9	9	D	9	.3			550	0	550	

COAL QUALITY/SEAM THICKNESS LOG INTERVALS (Refer to relevant log)

									INTERVAL TOTAL
FROM	504	479	430	401	324	315	225	183	
TO	495	470	420	390	318	306	221	178	
INTERVAL	9	9	10	11	6	9	4	5	= 63

ADDITIONAL SONDES RUN

SONDE	LOG	GENERAL SCALE LOG	DETAIL SCALE LOG
N-N		1:200	
DIP			

REFER TO ADDITIONAL HEADINGS

REMARKS

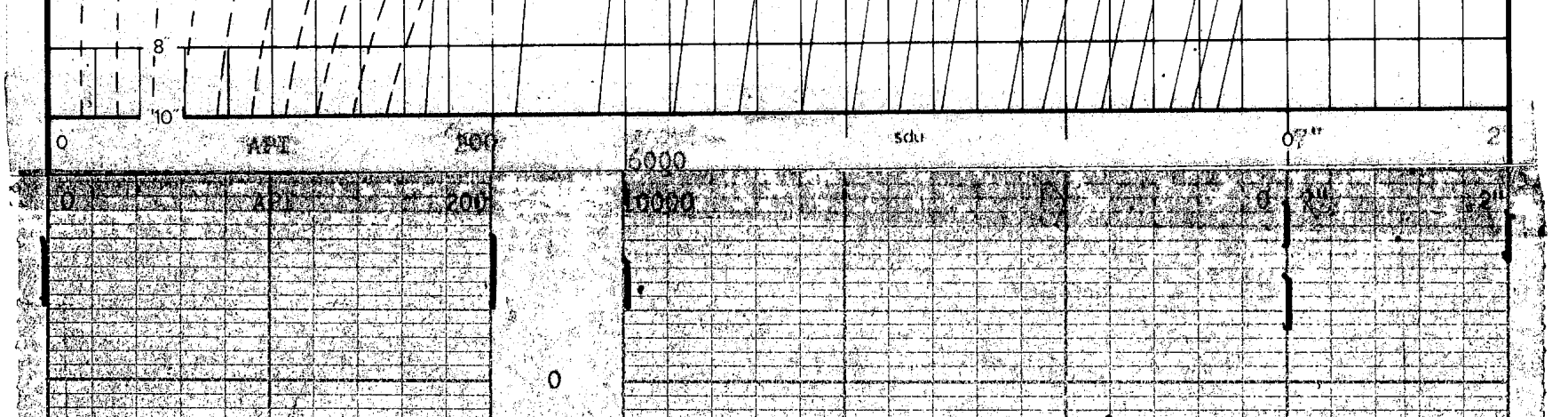
BPB COAL LITHOLOGY LOG

CALIBRATION DATA

JIG No. VALUE @ 2" DIAM
JIG MARK SHOWN AT ABOVE VALUE -
JIG CAL DATE JIG VALUE SDU @ g/cm³ ins cps
JIG No SPAN NORM $\frac{SDU}{CPS}$ = ins cps

GAMMA RAY	DEPTH	BULK DENSITY g/cm³	CALIPER INCHES

HOLE SIZE CORRECTION DATA



GAMMA RAY	DEPTH	BULK DENSITY g/cm³	CALIPER INCHES

BPB

BOREHOLE QBD 8105 AREA Babcock
CLIENT Denison Mines COUNTRY Canada

COAL LITHOLOGY LOG

MY A50261 R

PR-QUINTETTE 81(3A)

COAL QUALITY LOG

BOREHOLE QBD8104
CLIENT DENISON MINES

AREA BABCOCK
COUNTRY CANADA
DATE LOGGED 12/09/81

DEPTH SCALE 200:1

4 OF 4 LOGS

BOREHOLE DATA REFER TO LITHOLOGY LOG

OPERATION DATA REFER TO LITHOLOGY LOG

EQUIPMENT AND RECORDING DATA

COAL COMBINATION SONDE

SIDEWALL POSITION

LOG	TAPED	RECORD SPEED	DIRECT or REPLAY	SPEED	T.C SECS	NORM	CAL COEFF.
GAMMA RAY	Y	2	R	2	2		1.54
L.S. DENSITY	Y	2	R	2	1	8.2	

SOURCE, SONDE AND CALIBRATION
REFER TO LITHOLOGY LOG

SONDE TYPE:
COAL
COMBINATION
SONDE

LOG SUITE:
GAMMA RAY
L.S. DENSITY

COAL QUALITY LOG INTERVALS

FROM	238	225	176	157	145	108	
TO	234	212	172	151	139	104	
INTERVAL	4	13	4	6	6	4	
FROM							
TO							
INTERVAL							INTERVAL TOTAL =37

REMARKS

615

BPB COAL QUALITY LOG

	DEPTH	GAMMA RAY
		COAL BULK DENSITY g/cm³
		150 API 0
		2000 sdu 0

		2000 sdu 0
		150 API 0
		COAL BULK DENSITY g/cm³
	DEPTH	GAMMA RAY

BOREHOLE QBD8104
CLIENT DENISON MINES
AREA BABCOCK
COUNTRY CANADA

COAL QUALITY LOG

MY 88002 R

Pre-QUINTETTE 8/6 ft

SEAM THICKNESS LOG

BOREHOLE QBD8104
CLIENT DENISON MINES

AREA BABCOCK
COUNTRY CANADA
DATE LOGGED 12/09/81

DEPTH SCALE 200:1

3 OF 4 LOGS

SONDE TYPE:
COAL
COMBINATION
SONDE

LOG SUITE:
CALIPER
B.R.DENSITY

BOREHOLE DATA: REFER TO LITHOLOGY LOG

OPERATION DATA: REFER TO LITHOLOGY LOG

EQUIPMENT AND RECORDING DATA

COAL COMBINATION SONDE:

SIDEWALL POSITION

LOG	TAPING LOG TAPED	RECORD SPEED	DIRECT or REPLAY	PANEL SPEED	TC SECS	NORM	CAL COEFF
CALIPER	1	2	B	2	.3		
B.R.DENSITY	Y	2	R	2	.3		7.3

SOURCE SONDE AND CALIBRATION
REFER TO LITHOLOGY LOG

SEAM THICKNESS · LOG INTERVALS

FROM	238	225	176	157	145	108		INTERVAL TOTAL
TO	234	212	172	151	139	104		
INTERVAL	4	13	4	6	6	4		= 37

REMARKS

615

B P B SEAM THICKNESS LOG

CALIPER INCHES	DEPTH	BED RESOLUTION DENSITY
dia		13000 SBRDU 7000

CALIPER INCHES	DEPTH	BED RESOLUTION DENSITY
dia		13000 SBRDU 7000

BOREHOLE QBD8104
CLIENT DENISON MINES

AREA BABCOCK
COUNTRY CANADA

SEAM THICKNESS LOG

MY 88002 R

PR-QUINTETTE 81(3)a

NEUTRON-NEUTRON

BOREHOLE QBD8104
CLIENT DENISON MINES

AREA : BABCOCK
COUNTRY CANADA
DATE LOGGED 12/09/31

DEPTH SCALE 200:1

2 OF 4 LOGS

BOREHOLE DATA	REFER TO LITHOLOGY	LOG
OPERATION DATA	REFER TO "	LOG

EQUIPMENT AND RECORDING DATA

LOG	TAPING			PANEL			CAL COEFF
	LOG TAPED	RECORD SPEED	DIRECT or REPLAY	SPEED	T C SECS	NORM	
N-N	Y	9	D	9	1		.74
	SONDE NO	204	SOURCE NO	678			

REMARKS
LOGGED THROUGH THE RODS

615

BOREHOLE QBD8104
CLIENT DENISON MINES
AREA FRAME
COUNTRY CANADA

MY A58452R

PR - QUINTETTE 81(3)b

BOREHOLE QBDB104
CLIENT DENISON MINES

AREA BABCOCK
COUNTRY CANADA
DATE LOGGED 12/09/81

DEPTH SCALE 200:1

1 OF 4 LOGS

COAL LITHOLOGY LOG

BOREHOLE DATA

PERMANENT DATUM	FLOOR			
ELEVATION OF P.D.				
	BPB		DRILLER	
MEASUREMENTS FROM	FLOOR		FLOOR	
DEPTH REACHED	247		249	
CASING SHOE				
BIT SIZES	1	NQ TO TD	2	TO
	3	TO	4	TO
CASING SIZES	1	TO	2	TO

SONDE TYPE
COAL
COMBINATION
SONDE

FLUID DATA

NATURE	MUD
S.G	
LEVEL	
VISCOSITY	
Rm at meas. temp.	
B.H.T.	

LOG SUITE
GAMMA RAY
L.S. DENSITY
CALIPER

OPERATION DATA

FIRST READING	247
LAST READING	0
INTERVAL LOGGED	247
UNIT-TRUCK No.	HELI-BOX
ENGINEER	DK/SM
WITNESS	

615

EQUIPMENT AND RECORDING DATA

COAL COMBINATION SONDE

LOG	EQUIPMENT SONDE	EQUIPMENT SOURCE	EQUIPMENT CALIBRATOR	TAPING LOG TAPED	TAPING RECORD SPEED	TAPING DIRECT or REPLAY	PANEL SPEED	PANEL TC SECS	PANEL NORM	CAL. COEFF	DEPTHS FROM	DEPTHS TO	DEPTHS INTERVAL	SEAM LOG RUN
GAMMA RAY	101	■		Y	9	D	9	1		1.54	245	0	245	
L.S. DENSITY				Y	9	D	9	.3	8.2		245	0	245	
CALIPER	SIDEWALL POSITION	■		Y	9	D	9	.3			245	0	245	

COAL QUALITY/SEAM THICKNESS LOG INTERVALS (Refer to relevant log)

FROM	238	225	176	157	145	108		INTERVAL TOTAL
TO	234	212	172	151	139	104		
INTERVAL	4	13	4	6	6	4		= 37

ADDITIONAL SONDES RUN

SONDE	LOG	GENERAL SCALE LOG	DETAIL SCALE LOG
204	N-N	200:1	
		200:1	

REFER TO ADDITIONAL HEADINGS

REMARKS

FIRST RUN OF CCS. AND NEUTRON LOGGED THROUGH RODS.

BPB COAL LITHOLOGY LOG

GAMMA RAY | DEPTH | BULK DENSITY

0 | API | 150 | 2000 | sdu | 0

GAMMA RAY | DEPTH | BULK DENSITY g/cm³ | CALIPER INCHES

BOREHOLE QBDB104
CLIENT DENISON MINES
AREA BABCOCK
COUNTRY CANADA

COAL LITHOLOGY LOG

MY A50261 R

COAL QUALITY LOG

BPB

SONDE TYPE
COAL
COMBINATION
SONDE

LOG SUITE
GAMMA RAY
L.S. DENSITY

BOREHOLE QBD8103
CLIENT DENISON MINES

AREA BABCOCK
COUNTRY CANADA
DATE LOGGED 31/08/81

DEPTH SCALE 200:1

4 OF 4 LOGS

BOREHOLE DATA REFER TO LITHOLOGY LOG

OPERATION DATA REFER TO LITHOLOGY LOG

EQUIPMENT AND RECORDING DATA

COAL COMBINATION SONDE

SIDEWALL POSITION

LOG	LOG TAPED	RECORD SPEED	DIRECT or REPLAY	SPEED	T.C SECS	PANEL NORM	CAL COEFF
GAMMA RAY	Y	2	R	2	2		1.51
LS DENSITY	Y	2	R	2	2	7.9	

SOURCE, SONDE AND CALIBRATION
REFER TO LITHOLOGY LOG

COAL QUALITY LOG INTERVALS

FROM	180	160
TO	176	148
INTERVAL	4	12
FROM		
TO		
INTERVAL		
INTERVAL TOTAL	16	

REMARKS

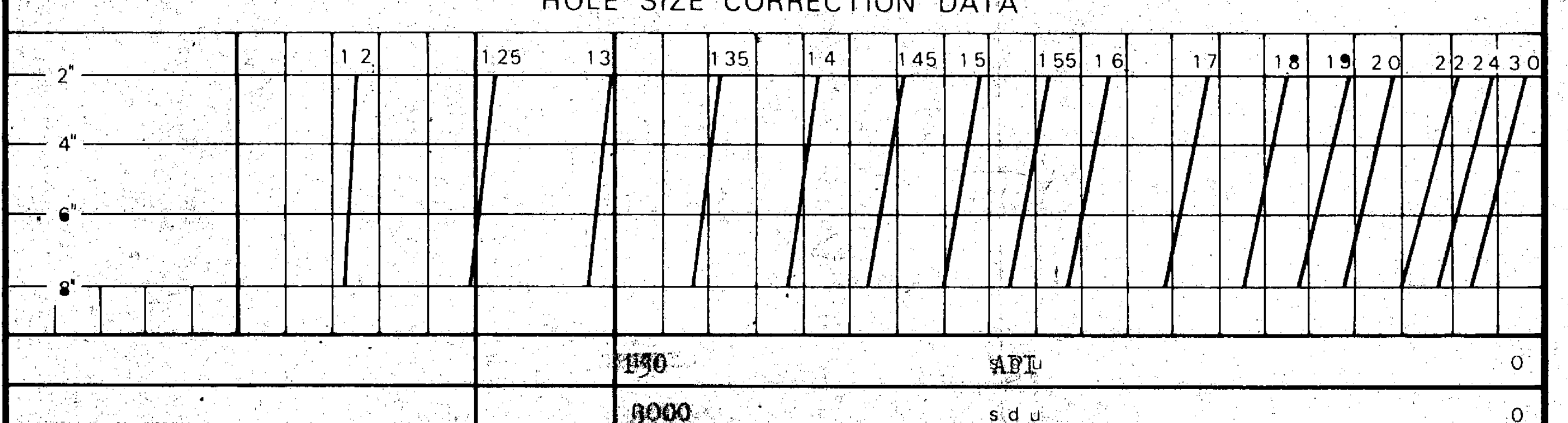
615

Re- QUINTETTE 81(3)A

BPB COAL QUALITY LOG

	DEPTH	GAMMA RAY
		COAL BULK DENSITY g/cm3

HOLE SIZE CORRECTION DATA



		150 API 0
		3000 sdu 0

		3000 sdu 0
		150 API 0
		COAL BULK DENSITY g/cm3
	DEPTH	GAMMA RAY

BPB

BOREHOLE QBD8103
CLIENT DENISON MINES

AREA BABCOCK
COUNTRY CANADA

COAL QUALITY LOG

MY 83002 R

Re- QUINTETTE 8/(3)b

SEAM THICKNESS LOG

BOREHOLE QBDB103

CLIENT DENISON MINES

AREA BABCOCK

COUNTRY CANADA

DATE LOGGED 21/08/81

DEPTH SCALE 1:20

3 OF 4 LOGS

SONDE TYPE:
COAL
COMBINATION
SONDE

LOG SUITE:
CALIPER
B.R. DENSITY

BOREHOLE DATA — REFER TO LITHOLOGY LOG

OPERATION DATA — REFER TO LITHOLOGY LOG

EQUIPMENT AND RECORDING DATA

COAL COMBINATION SONDE — SIDEWALL POSITION

LOG	TAPING: LOG TAPED	RECORD SPEED	DIRECT or REPLAY	PANEL: SPEED	T.C. SECS	NORM	CAL COEFF
CALIPER	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
B.R. DENSITY	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]

SOURCE, SONDE AND CALIBRATION — REFER TO LITHOLOGY LOG

SEAM THICKNESS LOG INTERVALS

FROM	TO	INTERVAL	FROM	TO	INTERVAL	TOTAL INTERVAL
130 / 160	176 / 148	4 / 12				=16

REMARKS

615

B P B SEAM THICKNESS LOG

CALIPER INCHES	DEPTH	BED RESOLUTION DENSITY
dia		15000 SBRDU 6000

CALIPER INCHES	DEPTH	BED RESOLUTION DENSITY
7 6 5 dia 4 3 2		15000 SBRDU 6000

BOREHOLE QBDB103
CLIENT DENISON MINES
AREA BABCOCK
COUNTRY CANADA

SEAM THICKNESS LOG

MY 88002 R

PR- QUINTETTE 81(3)A

COAL LITHOLOGY LOG

BOREHOLE QBD8103
CLIENT DENISON MINES
AREA BABCOCK
COUNTRY CANADA
DATE LOGGED 31/08/81

DEPTH SCALE 200:1

1 OF 2 LOGS

SONDE TYPE:
COAL COMBINATION SONDE

LOG SUITE:
GAMMA RAY
L.S. DENSITY
CALIPER

BOREHOLE DATA

	BPB	DRILLER
PERMANENT DATUM	GROUNDLEVEL	
ELEVATION OF P.D		
MEASUREMENTS FROM	GL	GL
DEPTH REACHED	186	195
CASING SHOE	8.6	8.6
BIT SIZES	1 [illegible] TO TD	2 TO
	3 TO	4 TO
CASING SIZES	1 TO	2 TO

FLUID DATA

NATURE	AIR
S.G	
LEVEL	
VISCOSITY	
Rm at meas temp	
B.H.T.	

OPERATION DATA

FIRST READING	186
LAST READING	0
INTERVAL LOGGED	186
UNIT-TRUCK No.	HELI-BOX
ENGINEER	DW/SM
WITNESS	

615

EQUIPMENT AND RECORDING DATA

COAL COMBINATION SONDE

LOG	EQUIPMENT			TAPING			PANEL			CAL COEFF	DEPTHS			SEAM LOG RUN
	SONDE	SOURCE	CALIBRATOR	LOG TAPED	RECORD SPEED	DIRECT or REPLAY	SPEED	T.C SECS	NORM		FROM	TO	INTERVAL	
GAMMA RAY	101			Y	9	D	9	1		1.5	186	0	186	
L.S. DENSITY				Y	9	D	9	1	7.9		187	0	187	
CALIPER	SIDEWALL POSITION			Y	9	D	9	.3			186	0	186	

COAL QUALITY/SEAM THICKNESS LOG INTERVALS (Refer to relevant log)

			INTERVAL TOTAL
FROM	180	160	
TO	176	148	
INTERVAL	4	12	= 16

ADDITIONAL SONDES RUN

SONDE	LOG	GENERAL SCALE LOG	DETAIL SCALE LOG
204	N-N	200:1	

REFER TO ADDITIONAL HEADINGS

REMARKS

LOGGED THROUGH RODS
HOLE BLOCKED AT 9m

BPB COAL LITHOLOGY LOG

CALIBRATION DATA

JIG No. VALUE 3@ 2" DIAM	JIG CAL DATE 29/07/81	JIG VALUE 3680 SDU @ 1.03 g/cm³	2 ins 365 cps
JIG MARK SHOWN AT ABOVE VALUE	JIG No 0041 SPAN 6000	NORM $\frac{SDU}{CPS}$ = 7.9	7 ins 715 cps

GAMMA RAY | DEPTH | BULK DENSITY g/cm³ | CALIPER INCHES

GAMMA RAY | DEPTH | BULK DENSITY g/cm³ | CALIPER INCHES

BOREHOLE QBD8103
AREA BABCOCK
CLIENT DENISON MINES
COUNTRY CANADA

COAL LITHOLOGY LOG

MY A50261 R

PE-QUINTETTE 81(3)A

NEUTRON-NEUTRON
GAMMA LOG

BOREHOLE QBD 8103
CLIENT DENISON MINES

AREA BABCOCK
COUNTRY CANADA
DATE LOGGED 31 /08/81

DEPTH SCALE 200:1
2 OF 2 LOGS

BOREHOLE DATA REFER TO LITHOLOGY LOG
OPERATION DATA REFER TO LITHOLOGY LOG

EQUIPMENT AND RECORDING DATA

LOG	TAPING			PANEL			
	LOG TAPED	RECORD SPEED	DIRECT or REPLAY	SPEED	T.C. SECS	NORM	CAL COEFF
N-N	Y	9	D	9	1	6.0	
GAMMA	Y	9	D	9	1		1.40

SONDE NO 204
SOURCE NO

REMARKS

615

GAMMA	DEPTH	NEUTRON-NEUTRON
0 API 150		0 SNU 500

GAMMA	DEPTH	NEUTRON-NEUTRON

BOREHOLE QBD 8103
CLIENT DENISON MINES
AREA BABCOCK
COUNTRY CANADA

MY A58452R

Pre-QUINTETTE 81/3A

SEAM THICKNESS LOG

SONDE TYPE: COAL COMBINATION SONDE

LOG SUITE: CALIPER ?. B.R. DENSITY

BOREHOLE QBD 8102
CLIENT DENISON

AREA BABCOCK
COUNTRY CANADA
DATE LOGGED 18/8/81

DEPTH SCALE 20:1

__ OF __ LOGS

BOREHOLE DATA — REFER TO LITHOLOGY LOG

OPERATION DATA — REFER TO LITHOLOGY LOG

EQUIPMENT AND RECORDING DATA

COAL COMBINATION SONDE

LOG	TAPE	RECORDING SPEED	REPLAY	TIME CONST.	SPEED	SECS	NORM	SIDEWALL POSITION	PANEL	CAL COEFF
CALIPER	7	2	I	2	2					
B.R. DENSITY	7	2	I	2	2	6.24				

SOURCE SONDE AND CALIBRATION
REFER TO LITHOLOGY LOG

SEAM THICKNESS LOG INTERVALS

FROM	490	479	388	369	342	313	284
TO	483	468	385	364	334	307	279
INTERVAL	7	11	3	5	8	6	5
FROM	266	230	214	115	99	45	
TO	258	225	208	111	96	40	TOTAL
INTERVAL	8	5	6	4	4	5	=77m

REMARKS

6/S

B P B SEAM THICKNESS LOG

CALIPER INCHES	DEPTH	BED RESOLUTION DENSITY
7 6 5 dia 4 3 2		sbrdu

CALIPER INCHES	DEPTH	BED RESOLUTION DENSITY
7 6 5 dia 4 3 2		sbrdu

BOREHOLE QBD 8102
CLIENT DENISON
AREA BABCOCK
COUNTRY CANADA

SEAM THICKNESS LOG

MY 88002 R

PR-QUINTETTE 81(3)A

NEUTRON-NEUTRON

BOREHOLE QBD8102

CLIENT DENISON

AREA BABCOCK

COUNTRY CANADA

DATE LOGGED 17/8/81

DEPTH SCALE 200:1

___OF___ LOGS

BOREHOLE DATA REFER TO LITHOLOGY LOG

OPERATION DATA REFER TO " LOG

EQUIPMENT AND RECORDING DATA

LOG	TAPING			PANEL			CAL COEFF
	LOG TAPED	RECORD SPEED	DIRECT or REPLAY	SPEED	T.C. SECS	NORM	
N-N	y	9	d	9	1	.978	

SONDE NO 204 SOURCE NO 6787

REMARKS

LOGGED THROUGH THE RODS

615

BOREHOLE QBD 8102

CLIENT DENISON

AREA BABCOCK

COUNTRY CANADA

MY A58452R

PR-QUINTETTE 81(3)A

COAL LITHOLOGY LOG

SONDE TYPE:
COAL
COMBINATION
SONDE

LOG SUITE:
GAMMA RAY
L.S. DENSITY
CALIPER

BOREHOLE QMR 8119
CLIENT Denison Mines

AREA Frame
COUNTRY Canada
DATE LOGGED 11/10/81

DEPTH SCALE 1:200

2 OF 4 LOGS

BOREHOLE DATA

PERMANENT DATUM	GROUND LEVEL		
ELEVATION OF P D			
MEASUREMENTS FROM	G.L.		
	BPB	DRILLER	
DEPTH REACHED	234m		
CASING SHOE			
BIT SIZES	1 TO	2 TO	
	3 TO	4 TO	
CASING SIZES	1 TO	2 TO	

FLUID DATA

NATURE	GROUND WATER
S.G	
LEVEL	47m
VISCOSITY	
Rm at meas. temp.	
B.H.T.	

OPERATION DATA

FIRST READING	234m
LAST READING	0
INTERVAL LOGGED	234m
UNIT-TRUCK No.	HELI.
ENGINEER	D.W.
WITNESS	

615

EQUIPMENT AND RECORDING DATA

COAL COMBINATION SONDE

LOG	EQUIPMENT			TAPING			PANEL			CAL COEFF	DEPTHS			SEAM LOG RUN
	SONDE	SOURCE	CALIBRATOR	LOG TAPED	RECORD SPEED	DIRECT or REPLAY	SPEED	T C SECS	NORM		FROM	TO	INTERVAL	
GAMMA RAY	SIDEWALL POSITION			Y	9	D	9	1			234	0	234	
L.S. DENSITY		5822		Y	9	D	9	.3	8.0		234	0	234	
CALIPER				Y	9	D	9	.3			234	0	234	

COAL QUALITY/SEAM THICKNESS LOG INTERVALS (Refer to relevant log)

								INTERVAL TOTAL
FROM	194	170	160	126	81	63	52	
TO	186	166	146	120	70	58	49	
INTERVAL	8	4	14	6	11	5	3	= 51

ADDITIONAL SONDES RUN

SONDE	LOG	GENERAL SCALE LOG	DETAIL SCALE LOG
N-N		1:200	

REFER TO ADDITIONAL HEADINGS

REMARKS

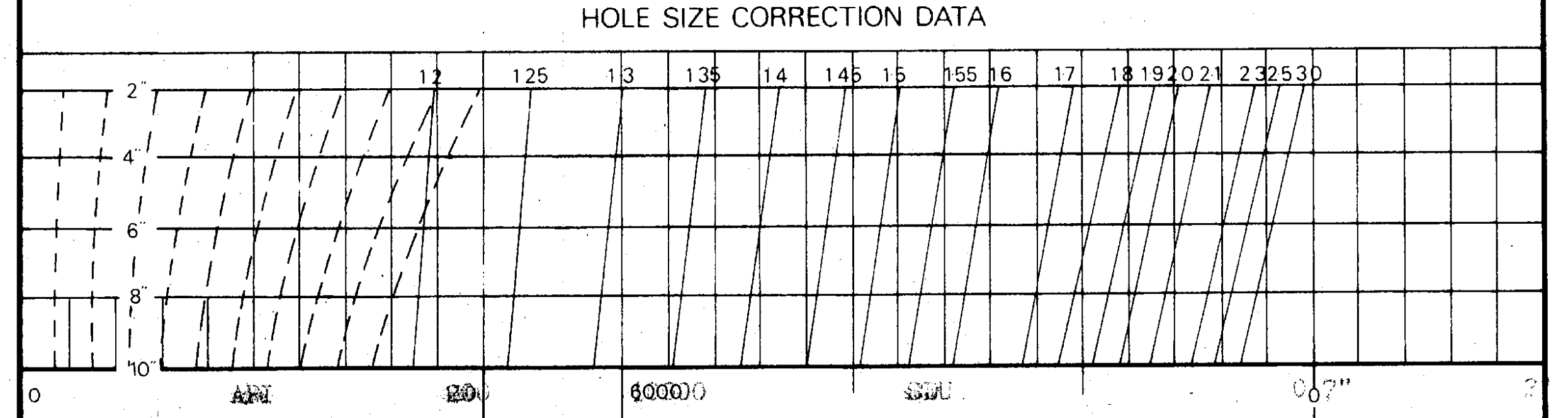
BPB COAL LITHOLOGY LOG

CALIBRATION DATA

JIG No. VALUE @ 2" DIAM
JIG MARK SHOWN AT ABOVE VALUE -
JIG CAL DATE JIG VALUE SDU @ g/cm³ ins. cps
JIG No SPAN NORM $\frac{SDU}{CPS}$ = ins cps

GAMMA RAY	DEPTH	BULK DENSITY g/cm³	CALIPER INCHES

HOLE SIZE CORRECTION DATA



GAMMA RAY	DEPTH	BULK DENSITY g/cm³	CALIPER INCHES

BOREHOLE QMR 8119 AREA Frame
CLIENT Denison Mines COUNTRY Canada

COAL LITHOLOGY LOG

MY A50261 R