

PR-SHELL-LINE CILE
(HORSESHOE RIDGE
78(2)A
BORE HOLE
DATA
BOOK 2 OF 2

419

PR-SHELL LINE CREEK.
HORSESHOE RIDGE 78 (3) A.

BOOK 2 OF 2.

LINE CREEK

LC-107

GEOLOGICAL BRANCH
ASSESSMENT REPORT

00 419

DIAMOND DF CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 107 SHEET No: 1

DATE BEGUN: _____ DEPTH: _____ BEARING: _____ U.T.M. _____

DATE FINISHED: _____ ELEV. COLLAR: _____ TOTAL DEPTH: _____ COAL LICENSE: _____

LAT.: _____ HOLE ANGLE: _____ LOGGED BY: _____ CORE SIZE: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
Box 1											
	0.32						Shale, medium to dark grey, slightly carbonaceous, heavily iron stained, broken, rubble				
7.01											
	0.21						Shale, as above, broken				
	1.07	1.28	1.52	84			Shale, medium grey, slightly silty, iron staining along fractures, some very fine grain sandstone bands near base .01-.02 m thick with hardness of R5. becoming carbonaceous at base		1/30, 1/54 1/3	R3	} 6
8.53											
	0.28						Shale, dark grey, carbonaceous with few carbonaceous plant fragmets, silty iron staining along fractures			R 3	
	0.23						Shale, as above, broken with abundant iron staining				
	0.40						Siltstone medium to light grey, slightly calcareous iron stains along fracture, bottom 2/3 weathered re-brown with a hardness of S4 and is extremely calcareous		1/63	R 4	
	0.29	1.20	1.22	98			Shale, dark grey to black, carbonaceous with trace carbonaceous plant fragment silty at top, iron staining along joint and at bottom, becomes much softer toward base (S5)		1/71	R 3	
9.75											
	0.15						Shale, as above, with .02 m unit of ground up sandy material at top and a .005 m stringer of coal at base, broken				
	0.33						Shale, dark grey to black, carbonaceous with carbonaceous plant debris, iron staining along joints and fractures		4/71 2/82	R 3	20
	0.11						Shale, as above, broken, rubble				
	0.19						Shale, as above, not broken				
Box 2											
	0.07	0.85	1.53	56			Shale, as above				

DIAMOND DI CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 107 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.39						Shale, dark grey to black, very carbonaceous with carbonaceous plant fragment, numerous coaly wisps and stringers .01 - .02 m thick, iron staining along joints and fractures		2/42	R 3	9
	0.12						Coal, shaly, dull, powdery SEAM #7	93			
	0.32	1.17	1.52	77	27.28		Coal, dull, some pyrite staining, broken to powdery				
27.43	0.04						Coal, shaly, broken				
	0.30						Coal, dull, broken				
	0.12						Coal, dull with bright broken stick				
Box 6	0.34						Coal, dull and bright broken				
	0.15	0.95	1.53	62			Coal, bright with dull powdery to broken	94			
28.96	0.07						Clay and coal mixed, powdery				
	0.23	0.30	1.52	20			Coal, dull, broken, slicked	94			
30.48	0.06						Shale, carbonaceous, broken				
	0.06						Coal, dull and bright, broken				
	0.12						Shale, carbonaceous with coaly stringers, slicked, stick	95			
	0.06						Coal, dull, broken		30.72		
	0.20						Coal, dull, broken stick				
	0.09						Coal, dull with bright, broken				
	0.10						Coal, dull with bright, stick	96			
	0.12	0.81	1.07	76			Coal, dull, broken				
31.55	0.25						Coal dull with bright, broken to powdery				
	0.20						Shale, carbonaceous with coaly stringers, broken stick				
	0.28						Coal, bright and dull, broken to powdery				
	0.10						Coal, dull, broken, stick				
	0.30	1.13	1.37	82			Coal, dull, with bright, broken stick				

DIAMOND D CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 107 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
32.92											
	0.09						Coal - dull and bright, broken stick				
	0.28						Coal - dull, broken stick				
	0.04						Coal - bright, broken stick				
	0.40	0.81	0.61	133			Coal - dull with bright, broken stick				
33.53											
Box 7											
	0.12						Coal - dull, broken stick				
	0.05						Coal - dull with bright broken stick	96			
	0.14						Coal - dull, broken stick				
	0.05						Coal, bright broken stick				
	0.15				34.84		Shale, carbonaceous with coaly stringers, broken	3976			
	0.23	0.74	1.06	70			Shale, carbonaceous				
34.59											
	0.61						Shale, dark grey, carbonaceous with some carbonaceous plant fragments, slightly silty and increasing in siltyness toward base, iron staining along joints and fractures, transitional below		1/34 2/47	R3	1
	0.56						Shale, medium grey, silty, slightly carbonaceous with trace carbonaceous plant fragments, homogenous			R3	2
	0.24						Shale, as above, broken				
	0.09	1.50	1.53	98			Shale, as above not broken				
36.12											
	1.47	1.47	1.52	97			Shale, medium to light grey, few carbonaceous plant fragments, silty and increasing toward base homogenous, iron staining on joint near base, transitional below		1/20 1/32	R3	1
37.64											
	0.20						Siltstone medium to light grey, shaly, slightly carbonaceous, homogenous			R4	4
Box 8											

DIAMOND F CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 107 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.36						Siltstone, as above becoming more shaly and carbonaceous toward base, iron staining along joints, transitional below		1/10, 1/48		7
	0.94	1.50	1.68	89			Shale, medium grey, slightly carbonaceous with trace carbonaceous plant fragments in middle, slightly silty, iron staining along joint, homogenous		1/37	R3	
39.32											
	1.50	1.50	1.52	99			Shale, as above, increasingly carbonaceous toward base		1/10 1/55	R3	3
40.84											
	1.34						Shale, dark grey, carbonaceous with trace carbonaceous plant fragments, iron staining on joints and fractures		2/58 1/0	R3	7
Box 9											
	0.19	1.53	1.53	100			Shale, as above		1/45		
42.37											
	1.18						Shale, dark grey to black, carbonaceous, slightly silty, iron staining along joints and fractures, homogenous		1/51 1/80 2/24 1/0 1/70 2/58	R3	13
	0.19	1.37	1.52	90			Shale, as above, broken, weathered		1/34		
43.89											
	0.47						Shale, as above, abrupt below		1/54 1/0	1/45	6
	0.83						Siltstone, medium to light grey, with some very fine grain sandstone interbeds, carbonaceous towards base, iron oxide staining on joints		1/75 1/0	R3	
	0.22	1.52	1.53	99			Shale, medium-dark grey, carbonaceous, slightly silty, homogenous				
45.42											
	0.40	0.40	0.60	67			Shale, as above with trace plant fragments		1/85	R3	2
46.02											
Box 10	0.34						Shale, medium grey, silty, slightly carbonaceous				

DIAMOND D CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 107 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.67						Shale, as above becoming silty, towards base, iron oxide staining along joints, abrupt below		1/47	R 3	1
	0.34	1.35	1.53	88			Siltstone medium light grey, calcareous with iron oxide (FeO) staining along joints		1/02	R 4	2
47.55											
	1.45	1.45	1.52	95		48	Siltstone medium dark grey with some very fine grain sandstone units (.005 - .01 m thick), slightly carbonaceous with trace plant fragments, iron staining on joints slight weathering on joints near top		1/30 1/45 1/48 1/42 2/85 1/60	R 4	7
49.07											
	0.16	0.16	0.61	26			Siltstone as above, broken, more carbonaceous and shaly				
49.68											
	1.37	1.37	1.53	90			Shale, medium dark grey, carbonaceous trace carbonaceous plant fragments slightly silty few siltstone at top (.01 - .02 m thick) one coaly stringer near top iron staining on joints		5/35 1/25 1/65 1/27 1/20 1/70 1/30 1/41	1/60 1/00 1/78	14
51.21 Box 11											
	0.89	0.89	0.91	98		50	Shale as above with .06 broken zone near top, siltstone unit in middle		1/25 1/80 1/90 1/58 1/50 1/00	R 3 2/42 1/85	12
52.12											
	0.16						Shale, as above trace coal wisps, broken			R 3	
	0.08						Shale not broken, abundant coal wisps			R 3	
	0.07						Shale as above broken			R 3	
	0.34	0.65	0.92	71			Shale as above not broken		1/70	R 3	
53.04											
	0.82	0.82	0.91	90		65	Shale as above with siltstone unit near base		1/10 1/30 1/63 1/55	R 3 1/47	10 1/72
53.95											

DIAMOND D CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 107 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.96	0.96	1.22	79			Shale as above .08 badly weathered shale zone crumpled, in middle		1/40 1/53 2/80 2/17 1/59 1/50	R 3 1/45	14
55.17	0.1						Shale as above			R 3	
Box 12	0.59						Shale as above with coal wisps and stringers at base		3/65 1/85 1/56 1/08	1/23	10
	0.17						Shale as above broken				
	.10	0.96	0.91	105			Shale as above not broken		1/67		
56.08	0.13						Shale as above			R 3	2
	1.44	1.57	1.53	103		43	Interbedded Shale/Siltstone medium-light grey, slightly carbonaceous, some (2) calcite filled fractures and trace plant fragments near top			R 3	
57.61	1.25						Siltstone with some shaly bands at top and base medium grey, slightly carbonaceous with trace carbonaceous plant fragments one slick in middle (pyrite (FeS) stained) Iron staining on joint, abrupt below		1/27	R 4	1
	0.30	1.55	1.52	102			Shale medium to dark grey, carbonaceous, with carbonaceous plant fragments, slightly silty				
59.13	.10						Shale as above			R 3	
Box 13	0.78						Shale as above abrupt below			R 3	
	0.61	1.49	1.83	81			Siltstone light grey, slightly carbonaceous, calcareous iron staining on joint		1/04	R 4	1
60.96	0.17						Siltstone as above			R 4	

DIAMOND D CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 107 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.91						Shale, medium-dark grey carbonaceous with carbonaceous plant debris slightly silty one slick at top with pyrite (FeS) stain, and 1 minor calcite filled fracture near slick			R3	1
	0.47	1.55	1.52	102			Sandstone, very fine grain medium-light grey, numerous coaly wisps calcareous, slick, pyrite fillings, poorly bedded with some ripple beds			R 4	1
62.48	1.90						Laminated Shale/Siltstone medium-dark grey, carbonaceous with carbonaceous plant fragments, more carbonaceous to base, slightly calcareous		1/55	R 3	3
Box14	0.24	2.14	2.14	100			Siltstone medium to dark grey, carbonaceous, with trace plant fragments at top, increasinly carbonaceous toward base			R 4	
64.62	0.23						Shale, medium to dark grey, carbonaceous with abundant carbonaceous plant fragments, silty, numerous coaly wisps and stringers (.005 m thick), pyrite stains on coaly fragments			R 3	4
	0.79					65	Shale, as above but without coal stringers and has some well defined siltstone interbeds in middle, some minor calcite filled fractures throughout		1/12		4
	0.32	1.34	1.22	110			Shale, as above with .01 m thick clay filling near base				
65.84	0.58						Shale as above, becoming less carbonaceous toward base		1/10 1/50 1/15	R3	3
	0.93	1.51	1.40	108			Shale, medium to light grey, silty, slightly carbonaceous				
67.24	0.66						Shale as above with calcareous fracture near base				1

DIAMOND / CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 107 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.14						Shale, medium to dark grey, carbonaceous, with some carbonaceous plant fragments, slightly silty			R3	} 1
Box 15											
	0.62	1.42	1.58	90			Shale as above, becoming less carbonaceous toward base				} 1
68.82											
	1.58	1.58	1.28	123			Shale as above		1/9		0
70.10											
	1.57	1.57	1.80	87		50	Shale, as above with few more plant fragments in middle		1/44 1/38		2
71.90									1/30		
	0.36						Shale, as above with on slick at top				
Box 16											
	0.88						Shale as above				
	0.21	1.45	1.56	93			Shale as above broken with iron staining along joint and fracture		1/11		
73.46											
	1.53	1.53	1.52	101			Shale as above with trace coaly wisps with pyrite stains, iron staining along joints and fractures		1/6 1/71	R 3	3
74.98									1/22		
	1.39					55	Shale, as above, more carbonaceous toward base with coaly stringer (.01 m) thick, pyrite stains on plant fragments, iron stins on joints, slick at coal stringer, few siltstone bands at top		1/16		2
Box 17											
	0.08	1.47	1.52	97			Shale as above				
76.50											
	1.46	1.46	1.53	95			Shale, as above with coal stringer .005 m thick in middle		1/60 1/0		3
78.03									1/50		

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 107 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	1.16					70	Shale, as above with iron staining along joints and fractures, slightly calcareous, toward base, some minor calcite filled fracture near top		1/5 1/42 1/52 1/10		6
	0.17	1.33	1.52	88			Shale, as above broken, slicks		1/0		
79.55	1.13						Shale, as above iron stains on joints and fractures pyrite stains on coaly areas, coal wisp at base		1/2 1/38 1/60 1/53		3
Box 18	0.26						Shale as above				
	0.07						Shale, as above, broken				
	0.07	1.53	1.53	100			Shale as above not broken				
81.08	0.29						Shale as above, trace pyrite stains on plant fragments				3
	0.13						Shale, as above, broken, rubble zone				
	0.87	1.29	1.52	85		56	Shale, as above with gypsum felled fragment and one slick in middle		1/63		
82.60	0.17						Shale, as above, broken				
	0.36						Shale, as above, not broken		1/54 1/66		6
	0.08						Shale, as above, broken slicks				
	0.06						Clay with some weathered shale			S1	
	0.07						Shale, as above, broken to powdery				
	0.71	1.45	1.52	95			Shale, as above, siltier toward base			R 3	
84.12	0.64						Shale as above				1
	0.77	1.41	1.53	92			Shale, as above, some iron and pyrite staining on joint		1/54		1
85.65	0.94					50	Shale, medium to dark grey, carbonaceous with trace carbonaceous plant fragments silty with some inter-bedded siltstone units in middle R4 in hardness			R3	0

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 107 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.14						Shale, as above, more carbonaceous and less silty				
	0.04						Coal, dull broken				
	0.44	1.56	1.52	103			Shale, as above				
87.17											
	0.30						Shale, as above, iron staining along joint		1/29		
	0.07						Shale, as above broken, rubble zone				
	1.1						Shale, as above with iron staining along joints, one slick at top		1/48 1/35		6
	0.15	1.62	1.53	106			Siltstone, medium grey slightly carbonaceous, with trace carbonaceous plant fragment iron staining along joints			R 4	
88.7											
	0.24						Siltstone as above		1/10		
Box 20											
	1.31	1.55	1.52	102		68	Siltstone as above with some very fine grain sandstone interbeds, ripple bedded		1/5 1/3		
90.22											
	0.32						Siltstone as above				
	0.39						Siltstone weathered red brown, calcareous in part due to leaching, an ironstone band .005m thick in middle			R2	
	0.52						Siltstone medium grey to a weahtered red brown in part calcareous at base		1/6 1/0 1/46		4
	0.40	1.63	1.52	107			Siltstone medium grey, slightly calcareous with one calcite fracture near base, iron staining along joint, becoming shaly toward base		1/49	R4	
91.74											
	1.46	1.46	1.53	95			Siltstone as above, shaly at top, one calcite filled fracture near bottom, some interbedded very fine grain sandstone beds at bottom				0
Box 21											
93.27											

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 107 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	1.12					68	Siltstone interbedded with some very fine grain sandstone, slightly calcareous, slightly carbonaceous with trace carbonaceous plant fragments, one minor calcite filled fracture in middle transitional below		1/65 1/56	R 4	1
	0.48	1.60	1.52	105			Sandstone very fine to fine grain, some interbedded siltstone units .01-.02 m thick, medium grey ripple bedded with some cross-bedding, slightly calcareous iron staining along joint		1/64	R 5	3
94.79	1.51	1.51	1.53	99		70	Sandstone as above, minor calcite filled fracture throughout becomes more silty and carbonaceous toward base		1/2	R 5	0
96.32	0.09						Sandstone as above				
	1.03					72	Siltstone medium to dark grey, few interbedded units of very fine grain sandstone .01-.02 m thick, slightly carbonaceous with trace carbonaceous plant fragment, patchly calcareous		1/65	R 3	1
Box22	0.45	1.57	1.52	103		73	Sandstone very fine grain light to medium grey some interbedded siltstone units, slightly carbonaceous with trace carbonaceous plant fragments slightly calcareous poor to moderately bedded			R 5	2
97.84	0.41						Sandstone as above, abrupt below				
	1.09	1.50	1.52	99		65	Sandstone medium grain, salt and pepper, light and dark grey, bedding well defined, few coaly wisps near base, iron staining along joints		1/16 1/8 1/50	R 5	3
99.36	1.46	1.46	1.53	95			Sandstone, coarse grain, salt and pepper light and dark grey, moderate to poorly bedded, some ripple		1/0 1/66 1/56	R 5	5

bedded, some small scale cross-bedding, few coaly wisps stringers throughout, iron staining along joints, slightly

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 107 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
100.89	0.36						Sandstone, as above, more coaly wisps				3
	0.10						Sandstone, as above, broken				3
	0.18					64	Sandstone as above not broken				3
Box23	0.85	1.49	1.52	98			Sandstone as above, with coal stringer .01m thick near top		1/60 1/40		4
102.41	0.12						Sandstone as above broken				
	0.07						Conglomerate with sandstone matrix, coaly wisp, abundant abrupt below			R 5	
	1.07	1.26	1.53	82			Shale, dark grey to black, carbonaceous with carbonaceous plant fragments, silty, a .10 siltstone band is in middle, slightly calcareous iron staining along joints and fractures, pyrite discs on coaly fragment		1/10		2
103.94	1.50	1.50	1.52	99			Shale, dark grey to black, carbonaceous with carbonaceous plant fragments, slightly silty 1 slick in middle		1/3 1/60 1/66	R 3	2
105.46	0.34						Shale as above				
Box24	0.80						Shale as above		1/10 1/80		
	0.27	1.41	1.52	93			Shale as above, broken				
106.98	0.10						Shale as above, broken				
	0.33						Shale as above not broken, abrupt below			R 4	
	0.82					61	Siltstone with some interbedded very fine grain sandstone calcareous medium grey ripple bed and cross-bedding poorly defined, some calcareous filled fracture		1/10		2
	0.16	1.41	1.53	92			Shale, medium to dark grey, carbonaceous, silty				
108.51											

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 107 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.09						Shale, as above				
	0.45					62	Interbedded siltstone, very fine grain sandstone and silty shale, calcareous, cross-bedded, ripple bedded			R 5	
	0.95	1.49	1.52	98			Shale, medium to dark grey, carbonaceous, with carbonaceous plant fragments pyrite stains on plant fragments, slightly silty, slicks at base, trace coaly wisps		1/50	R 3	
Box25 110.03											
	1.46	1.46	1.53	95			Shale, medium dark grey, carbonaceous with carbonaceous plant fragments slightly silty, pyrite on joint 2 slicks at top, few coaly wisps		1/61 1/63 1/40	R 3	3
111.56											
	1.54	1.54	1.52	101		61	Shale as above with some siltstone bands (.005 - .01 m thick) near top		1/67	R 3	1
113.08											
	0.78	0.78	1.52	51			Shale as above broken pieces with some minor calcite filled fractures			R 3	
114.60											
	0.23						Shale, as above not broken with some very thin calcareous siltstone bands			R 3	
Box26											
	0.83						Shale as above with some siltstone bands (calcareous) near base			R 3	
	0.42	1.48	1.53	97			Shale as above iron staining on fractures, broken			R 3	
116.13											
	0.15						Shale as above very carbonaceous, broken			R 3	
	0.12						Shale, as above coaly				
	0.05						Coal, dull broken stick				
	0.43						Shale as above, slicks				
	0.1						Shale as above, broken				

DIAMOND / CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 107 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.06						Coal shaly broken				
	0.19						Coal dull with bright powdered				
	0.04	1.14	1.52	75			Shale as above broken				
117.65											
	0.07						Shale as above				
	0.19						Coal dull with bright bands stick				
	0.11						Shale as above rubble zone				
	0.16						Shale as above stick				
	0.29	0.82	1.37	60			Shale as above broken, rubble zone				
119.02											
	0.21						Shale, as above rubble zone				
	0.21						Shale as above broken stick				
Box27											
	0.66						Shale medium-dark grey, carbonaceous, carbonaceous plant fragments slightly silty with some minor calcite filled fractures with some pyrite on joint broken above joints, slightly calcareous		1/16	R3	
	0.39	1.47	1.53	96			Shale as above not broken				
120.58											
	1.52	1.52	1.52	100			Shale as above with very calcareous zone in middle		1/6 1/14 1/20	R 3	3
122.07											
	1.10					66	Shale with some interbedded siltstone units, medium dark grey, silty, carbonaceous, carbonaceous plant fragments, siltstone very calcareous, shale slightly calcareous minor calcite filled fractures, pyrite on joints		1/00		2
	0.37	1.47	1.53	96			Shale as above broken				
Box28											
123.6											
	1.64	1.64	1.52	108		69	Shale as above		1/00		3
125.12											

DIAMOND [CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 107 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	1.53	1.53	1.52	101			Shale as above calcite filling along joints		1/5 1/64		2
126.64	0.68						Shale as above		1/52		1
Box29											
	0.86	1.54	1.62	95			Shale as above with few coal wisps at base				
128.26											
	1.44	1.44	1.43	101			Shale as above with few silty bands at base		1/05 1/64	R 3	2
129.69											
	0.80	0.80	1.25	64			Shale as above slightly more carbonaceous, broken		1/10		1
130.94											
	0.24						Shale as above broken rubble zone				
	0.48	.72	.43	167		68	Shale as above stick with siltstone bands (.005 - .01) homogeneous				
Box30											
131.37											
	1.20	1.20	1.22	98			Shale medium to dark grey, carbonaceous, with trace carbonaceous plant fragments toward base, slightly calcareous, with calcite filling along fractures near base, some pyrite stains along fractures		1/43	R 3	1
132.59											
	0.95	0.95	0.94	101			Shale as above with more carbonaceous plant fragments a .06 m thick dirt band at top		2/60 1/66	R 3	3
133.53											
	1.57	1.57	1.65	95		65	Shale as above with few siltstone bands in middle (.005 m. thick)		1/48 1/50		2
135.18											
	0.28						Shale as above		1/52		
	0.03				136.06		Coal - dull, broken SEAM #8				
Box31								99			
	0.22						Coal, dull with bright broken stick, some slicks				
	0.26	1.51	1.52	99			Shale, carbonaceous, coaly stringers, stick				
	0.10				136.56		Coal, shaly stringers, broken	99			

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 107 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.18						Coal, dull and bright, broken stick				
	0.15				41.54		Shale, carbonaceous, slicks	101	140.96		
	0.12						Shale, carbonaceous (sampled by Golder)				
	0.36				42.16		Coal, dull, broken - powdery	141.42			
142.04											
	0.50						Coal, dull, broken stick	102			
	0.30	1.10	1.52	72			Coal, dull with bright broken stick		143.15		
	0.30						Coal, dull, broken - powdery				
143.56								103			
	0.35						Coal, dull, broken				
	0.25	1.02	1.07	95			Coal, dull, broken - powdery				
	0.42						Coal, dull, broken stick				
Box 33											
144.63											
	0.20	1.03	1.03	100			Coal, dull, broken				
	0.20						Coal, dull with bright, broken				
	0.50						Coal, dull, broken				
	.13						Coal, dull with bright, broken				
145.66											
	0.30	0.46	0.95	48			Coal, dull, broken				
	0.16						Coal, dull, broken - powdery				
146.61											
	0.16						Coal, dull, broken				
	0.39	0.98	1.28	77			Coal, dull with bright, sheared				
	0.43						Coal, dull, broken				
147.89											
	0.13						Coal, dull and bright, broken				
	0.20						Coal, broken stick				
	0.07	1.08	0.94	115			Ironstone, very coaly, spheroidal texture, slicks stick				
	0.16						Coal, dull, stick	103			
	0.40						Coal, dull with bright, broken stick				

DIAMOND / CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 107 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.12						Coal, very shaley with slicks, broken				
148.83											
	0.14				149.54		Shale, carbonaceous, broken stick				
	0.10	0.84	0.83	101			Coal, dull with bright, broken - powdery				
	0.10						Shale, carbonaceous, stick				
Box 34											
	0.50						Shale medium to dark grey, carbonaceous with trace carbonaceous plant fragments, slightly silty, one slick near base				
149.66											
	1.46	1.46	1.52	96			Shale as above with few coaly wisps and stringers (.01 m thick stringer), few silty bands becoming increasingly silty toward base, slicks in upper 1/2				
151.18											
	1.22	1.22	1.52	80			Shale as above but a light to medium grey in color				
152.70											
	0.09						Shale as above				
	0.81						Shale, medium grey, very silty, with few very thin siltstone bands near base (.003 m thick), slightly carbonaceous				
Box 35											
	0.72	1.62	1.53	106			Shale as above				
154.23											
	1.53	1.53	1.52	101			Shale, as above with few siltstone bands in middle, also some minor calcite filled joints in middle				
155.75											
	1.17						Shale, as above 1 slick at top, abrupt below				
	0.36	1.53	1.53	100			Siltstone, light to medium grey, few very thin, very fine grain sandstone bands through out, some minor calcite filled fractures at top				
157.28											
	0.29					60	Siltstone as above				

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 107 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
Box36											
	0.67					58	Siltstone as above				
	0.58	1.54	1.52	101			Sandstone very fine grain, light to medium grey, ripple bedding, cross-bedded, trace of carbonaceous plant fragments, slightly calcareous bedding poorly defined				
158.80											
	1.50	1.50	1.52	99		62	Sandstone with interbedded siltstone and very fine shale, medium to dark grey, carbonaceous with trace carbonaceous plant fragments, one coaly stringer in middle, one slick near base				
160.32											
	0.80					60	Sandstone, very fine to fine grain, medium to dark grey, some coaly wisps and stringers, carbonaceous, breaks along the coal units, 2 shale bands .01 - .02 m. thick in middle, slightly calcareous, abrupt below				
	0.57					62	Shale very dark grey, carbonaceous with trace carbonaceous plant fragment silty, few very fine grain sandstone bands throughout, 2 calcite filled fractures one' at top, one at bottom, abrupt below				
	0.12	1.49	1.53	97			Siltstone, medium grey, slightly carbonaceous, few very silty shale interbeds, ripple bedding				
Box37											
161.85											
	0.53					60	Siltstone as above, 1 slick with calcite filling abrupt below				
	0.24					58	Shale, medium to dark grey, carbonaceous with trace carbonaceous plant fragments, coaly wisps at base with minor calcite filled fracture also at base, abrupt below				

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 107 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.37						Siltstone, medium grey, carbonaceous with trace carbonaceous plant fragments, one coaly wisp in middle, slicked at base, abrupt below				
	0.35	1.49	1.52	98			Shale, medium grey, carbonaceous with trace carbonaceous plant fragments, silty slightly calcareous				
163.37	0.04						Shale, as above abrupt below				
	1.13						Siltstone medium grey, few silty shale interbeds, carbonaceous, with trace carbonaceous plant fragments upper 2/3 very calcareous while bottom 1/3 is not calcareous abrupt below				
	0.35	1.52	1.53	99			Shale, dark grey, carbonaceous with trace carbonaceous plant fragment, silty, slightly calcareous				
164.90	0.27						Shale, as above, abrupt below				
	0.95					58	Siltstone interbedded with some very silty shale medium to light grey, slightly calcareous, homogenous				
Box38	0.21						Siltstone as above, abrupt below				
	0.09	1.52	1.52	100			Shale, dark grey, carbonaceous with trace carbonaceous plant fragment, silty, slightly calcareous small amount of iron staining on base				
166.42	0.16						Shale, as above, abrupt below				
	0.99					61	Siltstone with some interbedded silty shale, carbonaceous with carbonaceous plant fragment, calcareous abrupt below				
	0.42	1.57	1.52	103			Shale, medium to dark grey, carbonaceous, with trace carbonaceous plant fragments, silty, calcareous				
167.94	0.62						Shale as above, abrupt below				

DIAMOND / CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 107 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.83	1.45	1.53	95			Sandstone, medium to coarse grain, salt and pepper light and dark grey, numerous coaly wisps throughout, massive				
169.47	0.89						Sandstone as above with slicks along coaly wisps and stringers				
Box 39	0.60	1.49	1.52	98		56	Sandstone, medium to coarse grain, salt and pepper, light and dark grey, coaly wisps throughout, bedding poorly defined, cross-bedded				
170.99	1.46	1.46	1.53	95		66	Sandstone as above, with slicks along broken coaly wisps				
172.52	1.29					70	Sandstone as above but becoming medium grain in bottom half, abrupt below				
	0.29	1.58	1.52	104			Shale, dark grey, carbonaceous with carbonaceous plant fragments, slightly silty, slicked at top				
174.04	0.56						Shale, as above with trace siltstone to very fine grain sandstone interbeds .005-.01 m thick near base slightly calcareous				
Box 40	0.96	1.52	1.52	100			Shale, as above with some sandstone (medium to coarse grain) interbedded units .01-.02 m thick in middle				
175.56	0.3						Shale, as above, abrupt below				
	1.07					72	Interbedded fine grain sandstone and silty shale, carbonaceous with carbonaceous plant fragments, few coaly wisps near base, slightly calcareous, abrupt below				

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 107 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.09	1.46	1.53	95			Sandstone, medium grain, medium to light grey, slightly calcareous, massive				
177.09											
	0.07					69	Sandstone, as above, abrupt below				
	0.08						Shale, dark grey, carbonaceous, slightly calcareous with very thin bands of siltstone				
	0.46						Interbedded very fine grain sandstone and silty shale very carbonaceous with carbonaceous plant fragments bedding very irregular, abrupt below				
	0.22						Sandstone, medium grain, medium and dark grey, salt and pepper, numerous coaly wisps and stringers throughout, calcareous fracture in middle, slightly calcareous				
	0.45						Interbedded very fine grain sandstone and silty Shale carbonaceous with carbonaceous plant fragments coaly wisps at top, moderately calcareous, with a .03 m thick medium grain sandstone unit at base abrupt below				
	0.07	1.35	1.52	89			Shale medium to dark grey, carbonaceous with carbonaceous plant fragments, slightly silty, slightly calcareous				
178.61											
	0.25						Shale as above				
Box 41											
	0.34						Shale, as above with few very thin sandstone beds near base, abrupt below				
	0.80	1.39	1.53	91		66	Sandstone, medium to coarse grain, salt and pepper light and dark grey numerous carbonaceous wisps and stringers throughout, moderately bedded, slightly calcareous, with calcite filling along joints slicked along wisps				
180.14											

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 107 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	1.52	1.52	1.52	100		68	Sandstone as above				
181.66											
	1.54	1.54	1.52	101		65	Sandstone, coarse grain, salt and pepper light and dark grey, bedding well defined, calcareous filling along joints, two carbonaceous wisps at base				
Box42 183.18											
	0.17						Shale, dark grey, carbonaceous with trace carbonaceous plant fragments broken stick, abrupt above and below				
	0.31					73	Sandstone, coarse grain, light and dark grey salt and pepper, moderately bedded, carbonaceous wisps at base				
	1.00	1.48	1.53	97			Sandstone, coarse grain, salt and pepper, light and dark grey, massive, trace carbonaceous wisp at top				
184.71											
	1.62	1.62	1.52	107			Sandstone as above with 2 coaly wisps in middle				
186.23											
	0.50						Sandstone as above gradational below, coal wisp at base				
	0.44					74	Sandstone coarse grain, salt and pepper, light and dark grey, moderately bedded, abrupt below				
	0.15						Interbedded very fine grain sandstone and silty shale, carbonaceous with abundant carbonaceous plant fragments, bedding very irregular and broken, calcareous, numerous coaly wisps				
	0.09						Sandstone, coarse grain, salt and pepper medium and dark grey, coaly wisps at top and base, very calcareous with calcite filling along joint, abrupt above and below				
Box43											

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 107 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.33	1.51	1.53	99			Shale, dark grey to black, carbonaceous with abundant carbonaceous plant fragments, slightly silty, slicks				
87.76											
	1.50	1.50	1.52	99			Shale, medium to dark grey, silty with siltstone bands throughout, carbonaceous with trace carbonaceous plant fragments, slightly calcareous, slicks throughout, beds are irregular				
89.28											
	0.18						Shale, as above				
	0.17						Shale, dark grey, very carbonaceous with abundant carbonaceous plant fragments, abrupt above and below				
	0.18						Siltstone medium grey, trace carbonaceous plant fragments, slightly calcareous abrupt below				
	0.94	1.47	1.52	97			Shale, medium to dark grey, carbonaceous with trace carbonaceous plant fragments silty, few coaly wisps and stringers toward base, increasingly carbonaceous and less silty toward base, slicks along coaly wisps				
90.80											
	0.03						Coal, bright, broken				
	0.03						Shale, carbonaceous, plant fragments, slicked, coaly wisps				
	0.04						Coal, dull and bright, broken stick				
	0.04						Shale, carbonaceous, broken stick				
	0.04						Coal, dull, broken stick				
	0.15	1.41	1.53	92			Shale, carbonaceous, slicks, broken stick				
	0.35					191.84	Coal, dull with bright, broken stick SEAM #9		191.16		
	0.10						Coal, dull, broken stick				
Box 44											
	0.15						Coal, dull with bright, broken stick		104		
	0.01						Shale, carbonaceous				

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 107 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.12						Coal, dull, broken				
	0.23						Coal, dull with bright, broken				
	0.12						Coal, dull, broken				
192.33											
	0.05						Coal, dull with bright, broken				
	0.16	0.67	1.52	44			Coal, dull, sheared and broken		192.81		
	0.15				193.00		Shale, carbonaceous, broken stick, slicks	105			
	0.08						Shale, carbonaceous, coaly stringers, soft and mixed		193.33		
	0.23				193.52		Coal, dull, broken - powdery				
193.85								106			
	0.30	0.45	0.61	74			Coal, dull, sheared, broken		194.26		
	0.15				195.00		Shale, carbonaceous, coaly stringers, sheared				
194.46								107			
	0.30						Shale, carbonaceous, broken, slicks				
	0.55	0.85	0.98	87	195.54		Coal, dull, broken, trace pyrite discs on cleat		194.80		
195.44											
	0.10						Coal, dull and bright, broken stick				
	0.20						Coal, dull broken stick	108			
	0.30	0.95	1.10	86			Coal, dull with bright, broken - powdery				
	0.10						Coal, dull, broken				
	0.05						Shale, very carbonaceous, broken stick				
	0.20						Coal, dull, broken - powdery				
196.54											
Box 45											
	0.12						Coal, dull with bright, sheared in part, broken				
	0.15				197.42		Shale, carbonaceous, stick	109			
	0.02						Coal, bright, stick				
	0.01						Shale, carbonaceous stick				
	0.02						Coal, bright, stick				
	0.02	1.47	1.67	88			Shale, carbonaceous, stick				
	0.02						Shale, sheared				
	0.20						Shale, broken stick, sheared in part				

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 107 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.02						Coal, bright stick				
	0.22						Shale, carbonaceous, stick				
	0.02						Coal, bright, stick, sheared in part				
	0.33						Shale, carbonaceous, coaly stringers, stick				
	0.02						Coal, bright, broken - powdery				
	0.22						Shale, carbonaceous, stick				
	0.63						Coal, bright, broken - powdery				
	0.05						Shale, carbonaceous, stick				
198.21											
	0.30						Shale, carbonaceous, coaly stringers, broken				
	1.10	1.60	1.62	99			Shale as above, stick, transitional below				
	0.20					90	Sandstone, medium-fine grained, coarseing down, moderately bedded with shaley interbeds, and occasional mud clasts, abrupt below stick				
199.83											
	0.80	1.50	1.58	95			Sandstone as above				
	0.70						Siltstone, shaley with occasional fine sandstone stringers, poorly bedded, some disturbance, transitional below, stick				
201.41											
	1.53	1.53	1.53	100			Siltstone as above				
202.94											
	1.55	1.55	1.58	98			Siltstone as above				
204.52											
	0.40	1.52	1.52	100			Siltstone as above				
	1.12					70	Siltstone, with interbedded shaley zones, poorly bedded with some disturbances, occasional sandy layers, occasional minor calcite filled fractures transitional below, stick				
206.04											
	1.53	1.53	1.53	100			Siltstone as above				
207.57											

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 107 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	1.52	1.52	1.52	100			Siltstone as above				
209.09											
	1.13						Siltstone as above				
	0.40	1.53	1.53	100			Shale, silty, carbonaceous in part, stick, transitional below				
210.62											
	1.07	1.45	1.52	95			Shale, silty in part, minor coaly stringers, calcite filled fractures, occasional, stick				
	0.35						Shale as above, sheared and broken, abrupt below	211.75			
	0.03				212.80		Coal, dull, broken SEAM # 10B				
212.14								109			
	0.20						Coal, dull with bright, broken				
	0.08						Coal, dull, broken		212.51		
	0.07	0.92	1.22	75	213.20		Shale, carbonaceous, stick				
	0.12						Shale, carbonaceous, powdery	110			
	0.05						Shale, carbonaceous, stick				
	0.20						Shale, carbonaceous, broken - powdery				
	0.20				213.84		Coal, dull, broken		213.09		
213.36											
	0.14						Coal, dull with bright				
	0.20						Coal, dull broken				
Box 49											
	0.15						Coal, dull, broken and slicked	111			
	0.40	1.52	1.52	100			Coal, dull, broken stick				
	0.01						Shale, carbonaceous, stick				
	0.62						Coal, dull with bright, broken stick				
214.88											
	0.35	0.70	1.53	46			Coal, dull, broken stick, slicks in part				
	0.35						Coal, dull, broken - powdery				
216.41											
	0.15						Coal, sheared, dull, broken				
	0.33	0.72	0.91	79			Coal, dull, broken stick				

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 107 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.12						Coal, dull, sheared and broken				
	0.12						Coal, dull sheared, broken stick				
217.32					218.17						
	0.06						Shale, carbonaceous, coaly stringers, slicks				
	0.53	1.12	1.22	92			Shale, silty zones, occasional minor calcite veins				
	0.53					55	Siltstone, shaley, poorly bedded, disturbed bedding stick, abrupt below				
218.54											
Box50											
	1.15	1.15	1.24	93			Shale, carbonaceous, minor coaly wisps abrupt below				
219.78											
	0.63	1.49	1.50	99			Shale as above				
	0.86					78	Shale, with silty zones, poorly bedded and disturbed stick				
221.28											
	1.40						Shale as above				
	0.15					70	Shale as above with minor calcite filled fractures and slicks				
Box51											
	0.73					68	Shale dark grey, carbonaceous, slightly silty, slightly calcareous			R 3	3
	0.05	2.84	3.05	93			Shale, as above broken				
	0.15				224.48		Coal, powder, dull				
	0.28						Coal, dull, broken stick			R 1	
	0.08						Coal, dull with bright, broken stick				
224.33											
	0.2						Coal, dull, broken				
	0.44						Coal, dull, broken stick				
	0.09	1.37	1.53	90			Coal, dull with bright, broken stick				
	0.42						Coal, dull, broken stick				
	0.22						Coal, dull with bright, broken stick				
225.86											

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 107 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.47						Coal, dull, broken stick				
	0.07						Coal, dull with bright broken stick				
	0.24	1.48	1.52	97			Coal, dull, broken stick				
	0.51						Coal, dull with bright, some slicks, broken stick				
	0.14						Coal, dull, slicked, broken stick				
Box52											
	0.05						Coal, dull, sandy, broken stick				
227.38											
	1.59	1.59	1.52	104	228.09		Sandstone, salt and pepper, abundant coaly wisps, medium grain			R 5	1
						70	Sandstone salt and pepper, some dark grey wisps beds medium grain				
228.90											
	1.53	1.53	1.53	100			Sandstone as above trace of pebble conglomerate near base				
230.43											
	1.16					59-62	Sandstone, as above two pebble conglomerate bands .05 near top and .02 near base				
Box53											
	0.34	1.50	1.52	99		68	Sandstone as above, .03 pebble conglomerate in middle				
231.95											
	1.56	1.56	1.53	102		68	Sandstone as above .02 thick pebble conglomerate in middle and at base				5
233.48											
	0.3						Sandstone medium grain, salt and pepper, a few shaly bands		1/19 1/31	R 5	
	1.19	1.49	1.52	98			Sandstone salt and pepper, pebbles throughout, poorly bedded, medium grey and light grey beds, medium to coarse grain				
235.0											
	0.88						Sandstone as above				

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 107 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
Box 54											
	0.09	1.27	1.52	84			Sandstone as above				
	0.24						Coal, dull, some slicks, broken stick			R 1	
	0.06						Shale, dark grey, carbonaceous			R 3	
236.52											
	1.54	1.54	1.53	101			Sandstone, salt and pepper, massive, medium grain 2 carbonaceous slicks		1/10 1/18	R 5	1
238.05											
	1.52	1.54	1.52	101			Sandstone as above 3 slicks		3/20 1/15	R 5	1
239.57											
	0.64	1.54	1.53	101			Sandstone as above		1/0	R 5	
Box 55											
	0.90						Sandstone as above			R 5	
241.10											
	0.52						Sandstone as above, abrupt below				
	0.39	1.50	1.52	99			Shale, black, carbonaceous, carbonaceous plant fragments, slicks, broken stick to broken				
	0.11						Coal, dull slicked, broken stick				
	0.48						Sandstone, medium to coarse grain, salt and pepper massive			R 5	
242.62											
	1.46	1.46	1.52	96			Sandstone as above		1/22	R 5	
244.14											
	1.55	1.55	1.53	101			Sandstone as above				0
245.67											
	1.48	1.48	1.52	97		68	Sandstone as above with some dark grey beds		1/68		1
247.19											
							T.D. - 247.19				

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC-108 SHEET No: 1

DATE BEGUN: _____ DEPTH: _____ BEARING: _____ U.T.M. _____

DATE FINISHED: _____ ELEV. COLLAR: _____ TOTAL DEPTH: _____ COAL LICENSE: _____

LAT.: _____ HOLE ANGLE: _____ LOGGED BY: T.H. CORE SIZE: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	JOINTING	HARDNESS	FRACT. FREQ.
Box 1	0.07					73°	Sandstone - medium grain grading down to coarse grain at bottom - slightly shaley, coal wisps in bottom half		R 4	2
11.58	0.43	0.43	0.92	48		66°	Sandstone - coarse grain, as above, broken, light grey	30°	R 4	
12.50	0.91	1.0	1.22	82			Sandstone as above, increasing coal wisps towards bottom - rubble at top, broken stick below		R 4	
13.72	0.09						Siltstone - dark grey			
	0.06						Rubble			
	0.36	1.33	1.52	88			Shale - silty, wisps of very coarse sandstone, dark grey		R 3	
	0.91					90°	Interbedded sandstone, siltstone, shale & sandstone - fine grain, medium grey - small scale crossbedded, siltstone and shale - dark grey	29°	R 3	1
15.24	0.35	1.42	1.52	93		75°	Sandstone, Siltstone, Shale as above			
Box 2	1.07						Shale - minor fine grain sandstone near bottom, dark grey broken at top, stick in lower half, iron stain	70°, 43°	R 3	3
16.76	0.12						Shale as above			
	0.84	1.47	1.53	90			Sandstone fine grain, light-medium (interbedded, small scale crossbedded bioherms & worm burrows)		R 4	
	0.51					61°	Shale & minor sandstone, very minor coal wisps		R 3	
Box 3	0.46	1.48	1.52	97			Shale as above, sandstone lenses more prominent at bottom			
19.81	0.86						Sandstone with minor shale stringers, light-medium grain top grading down to rubble (iron stain) at bottom, fine grain irregular bedding, minor calcite infilling on bedding planes.		R 3	1

OMI

DIAMOND DRILL CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC-108 SHEET No: 2

DATE BEGUN: _____ DEPTH: _____ BEARING: _____ U.T.M. _____

DATE FINISHED: _____ ELEV. COLLAR: _____ TOTAL DEPTH: _____ COAL LICENSE: _____

LAT.: _____ HOLE ANGLE: _____ LOGGED BY: T.W.H. CORE SIZE: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	JOINTING	HARDNESS	FRACT. FREQ.
	0.16						Siltstone dark grey Iron stain on fracture	1/20	R 3	
21.33										
	0.43						Siltstone dark grey broken	1/45	R 3	
	0.10	1.21	1.23	98			Siltstone - rubble		R 3	
	0.68					67°	Siltstone - as above broken stick		R 3	
22.56										
	0.32						Siltstone as above		R 3	
	0.48	0.80	0.66	121			Shale dark grey, calcite filling on fracture	1/44	R 3	
23.22										
Box 4	1.20	1.20	1.47	82		74	Shale as above minor sandstone lens (.01 m thick), stick			
24.69										
	0.71						Shale as above			
	0.24						Sandstone with minor siltstone interbeds, sandstone fragment, irregular bedding		R 3	0
	0.45	1.54	1.52	101		74	Siltstone with minor sandstone interbeds calcite filled fracture	1/30	R 3	2
	0.08						Sandstone, shaly, irregular bedding, fine grain, medium grey			
	0.06						Shale silty, dark grey			
26.21										
	0.34						Shale as above iron stained fracture	1/29		
	0.30	1.39	1.53	91			Shale broken to rubble			
	0.21						Shale dark grey iron stained broken stick	1/03		
	0.25						Shale broken, dark grey			
	0.29						Shale dark grey broken stick, slick, iron stain	1/66		
27.74										
	0.39						Shale dark grey	1/73	R 3	2
Box 5										
	0.44						Shale as above iron stain on 21° fracture	1/57 1/21	R 3	1
	0.11						Shale as above			
	0.12	1.23	1.40	88			Coal shaly, broken ("MARKER BED")			

DIAMOND DR CORE LOG
(ALL ANGLES MEAS. FROM CORE AXIS)

HOLE No: LC 108 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	JOINTING	HARDNESS	FRACT. FREQ.
	0.12						Coal bright and dull banded broken stick			
	0.02						Shale medium grey			
	0.03						Coal broken			
29.14										
	0.19						Shale, coal stringers, carbonaceous			
	0.02						Rubble (coal and shale)			
	0.10						Shale carbonaceous coal wisps, pyrite			
	0.08	1.29	1.64	79			Rubble (mostly coal)			
	0.34						Shale dark grey, slicks iron staining, carbonaceous material	1/30		
	0.06						Rubble and powder (coal and shale)			
	0.50						Shale black, coal wisps, iron stain on bedding plane		R 3	
30.78										
	0.90					77°	Siltstone dark grey minor sandstone stringers		R 3	1
	0.06	1.37	1.53	90			Soft zone silt		S 4	
	0.41						Shale dark grey, calcite filled fractures, iron stained, slicks	1/58 1/70		
32.31									R 3	4
	0.25						Shale as above			
Box 6										
	0.30						Shale as above		R 3	
	0.07						Broken shale, coaly, coal stringer near top			
	0.34	1.71	1.52	112?			Shale coaly, coal wisps, broken stick, dark grey		R 3	
	0.10						Shale as above broken			
	0.30						Shale as above broken stick		R 3	
	0.35						Shale as above broken	29° 39°		
33.83										
	1.48	1.48	1.53	97		76°	Shale silty, minor sandstone beds (0.02), iron stain, calcite on joints	18° 48° x2	R 3	2
35.36										
	0.07						Shale as above			

DIAMOND D CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 108 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	1.19	1.52	1.52	100			Interbedded shale and sandstone - shale-silty, dark grey - sandstone - fine grain, irregular bedding, worm burrows		55°	R 4	1
	0.13						Shale dark grey				
Box 7	0.13						Shale as above				
36.88											
	1.47	1.47	1.52	97			Shale as above, iron stain on joints		24° 59' x2 54° 32'	R 3	3
38.40											
	1.51	1.51	1.53	99			Shale as above		32x2 61°	21° R3	3
39.93											
	1.08	1.57	1.52	103			Shale clean grading down to siltstone at bottom, minor sandstone stringers in lower half				
Box 8											
	0.49						Siltstone dark grey, iron stain on joints, broken		10° 10°	R 3	4
41.45											
	0.04						Siltstone - as above				
	0.40						Shale - dark grey, stick				
	0.15						Coal - shaley, iron stain on joints and cleat				
	0.025	1.485	1.53	97			Shale carbonaceous, iron stain				
	0.06						Coal - shaley				
	0.27					41.86	Shale - dark grey, coal wisps	42 44			
	0.06					41.86	Coal - powder SEAM #8				
	0.48						Coal dull with bright bands, broken to broken stick				
42.98								113			
	0.10						Coal - broken				
	0.38						Coal dull with bright bands, thin shale bands near bottom (0.005), iron stain on cleat, broken stick				
	0.03						Shale, black, carbonaceous, coal wisps, pyrite				
	0.11	1.39	1.52	91			Coal, bright and dull banded				
	0.04						Shale dark grey, coal wisps, iron stain, pyrite				

DIAMOND D CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 108 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE:	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.37						Coal - dull, broken stick				
	0.01						Shale, dark grey				
	0.35						Coal, dull with bright bands				
44.5	0.10						Coal, broken	114			
	0.025	0.845	1.52	56			Shale, dark grey				
	0.04						Coal, broken				
	0.29						Coal, dull with bright bands, stick				
Box 9	0.39						Coal as above				
46.02	0.03						Rubble, caved				
	0.36						Coal, dull with bright bands, stick				
	0.69	1.47	1.53	96			Coal, dull, broken stick				
	0.30						Coal broken				
	0.09					47.50	Shale, dark grey, coal wisps broken		47 46		
47.55								115			
	0.83	1.43	1.52	94			Shale, as above, coal stringers, broken		48 40		
	0.60					48.53	Coal, dull with bright bands, broken stick to broken				
49.07								116			
	0.41						Coal - dull				
	0.29	1.06	1.53	69			Coal - rubble to powder				
Box 10	0.29						Coal - rubble to powder (as above)				
	0.07						Coal - dull	117			
50.6											
	0.50						Coal - dull, broken				
	0.05						Coal - powder				
	0.40	1.36	1.52	90			Coal - dull, broken stick				
	0.18						Coal - dull with bright bands, broken				
	0.10						Coal - dull, stick				
	0.09						Coal - dull with bright bands, stick				
	0.04						Coal - dull				

DIAMOND D CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 108 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
52.12											
	0.38						Coal - dull, stick and broken stick				
	0.13	1.27	1.52	84			Coal - powder				
	0.57						Coal - dull with bright bands, broken stick	117			
	0.19						Coal - powder				
53.64											
	0.13						Coal - powder				
	0.39						Coal - broken				
	0.14						Coal - dull				
	0.20						Coal - dull with bright bands, broken stick				
	0.09	1.38	1.53	90			Coal - dull, broken stick				
Box 11											
	0.09						Coal - dull, broken				
	0.14						Coal - dull with bright bands				
	0.18						Coal - dull				
	0.02						Coal - shaley, "golitic" texture				
55.17											
	0.03						Coal as above				
	0.11						Shale - coaly, "golitic" texture, iron stain				
	0.12						Coal - dull				
	0.07	1.16	1.22	95			Coal - dull with bright bands				
	0.16						Coal - broken, 2 thin (0.01) shale bands				
	0.20						Coal and shale interbedded, broken	55.89			
	0.13					55.89	Shale - dark grey, iron stain on joint		48°		
	0.13						Coal - rubble				
	0.21						Shale - dark grey, coal wisps, stick, carbonaceous			R 3	
56.39											
	1.27	1.27	1.52	84			Shale dark grey, thin coal stringer in middle (0.01) - slick and iron staining on joints		12° 32° 62° 54° 50°	R 3	5
57.91											
	1.26	1.67	1.37	122			Shale slightly silty, dark grey, carbonaceous, bedding indistinct		1/5	R 3	1

DIAMOND D/ CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 108 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
Box12											
	0.41						Shale as above becoming more silty, less carbonaceous			R 3	
59.28											
	1.58	1.58	1.53	1.03			Siltstone medium-dark grey with sandy (very fine grain to fine grain) laminae increasing in frequency to base, bedding disturbed to indistinct		1/25 1/66 1/68	R 3	2
60.81											
	0.22						Siltstone/sandstone as above with more sandstone		1/36	R 3	} 3
	0.16						Sandstone fine-medium grain light grey ripple bedded			R 4	
	0.43	1.47	1.61	91			Shale/Sandstone unit grades from carbonaceous shale at top to fine grain sandstone at base		1/67 1/38	R 3	
	0.66						Siltstone with laminae of carbonaceous shale and fine grain sand		1/74 1/48	R 3	
62.42											
	0.49						Siltstone as above with more carbonaceous shale, several coarsening up sequences, one joint quartz filled (@ 79)		1/79 1/31 1/21	R 3	} 4
	0.25	1.58	1.44	110			Sandstone medium grain, light grey, with shale rip up clasts near top		1/22	R 3	
Box13											
	0.84						Siltstone as above		1/32 1/31 1/22 1/32	R 3	5
63.86											
	1.13					70	Shale/Sandstone interlaminated, silty, crossbedding in fine grain sandstone, shale is carbonaceous, slick		1/58 1/43 1/83	R 3	} 3
	0.37	1.50	1.52	99			Siltstone carbonaceous, dark grey with disturbed sandstone (very fine grain) clasts in upper 1/4		1/77 1/69		
65.38											
	1.54	1.54	1.55	99			Siltstone dark grey, carbonaceous, homogeneous at top with increasing very fine grain sandstone laminae near base plant fragments present		1/10 1/21 1/72	R 3	2

DIAMOND D' CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 108 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
66.93	0.23						Sandstone/siltstone very fine grain sandstone grading into dark grey carbonaceous siltstone			R 3	4
Box14	0.26	1.6	1.62	99		Siltstone continuation of above unit		1/71	R 3		
	1.11				70-72	Sandstone fine to medium grain small scale ripple bedding medium grey broken zone near top, minor quartz filled fractures		1/78 1/72 1/69 1/17 1/00	R 3		
68.55	0.20					Sandstone as above broken, abundant iron stained fractures					
	1.23	1.43	1.55	92		Sandstone very fine grain-fine grain, carbonaceous in part, minor quartz filled fractures near top		1/54 1/22 1/73 1/51	R 3	3	
70.10	1.45	1.58	1.53	103		Sandstone as above low angle crossbedding		1/38	R 3	5	
Box15	0.13					Sandstone as above					
71.63	0.96	1.48	1.52	97		70 Sandstone/Siltstone carbonaceous dark grey siltstone grading up into a medium grain medium grey sandstone fractures calcite filled				5	
	0.52					70 Sandstone medium-coarse grained medium grey, carbonaceous laminae slightly calcareous		1/25 1/59	R 3		
73.15	1.50	1.50	1.62	93		Siltstone/sandstone interlaminated very fine grain fine grain sandstone and carbonaceous siltstone calcite filled fractures, intense iron stain on fractures		1/44 1/72 1/42 1/75 1/62 1/53 1/87	R 3		
74.77	0.93	1.56	1.52	103		Sandstone/Siltstone as above with more sandstone laminae		1/69 1/55	R 3		

DIAMOND D¹ CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 108 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.31						Sandstone as above, coal wisps, coal and slick on joints		59° 62°		6
	0.74	1.05	1.13	93			Sandstone very coarse, broken stick, iron stain on joints		15°		2
94.64											
	1.53	1.53	1.37	112			Sandstone as above		15° 10° 10°		2
96.01											
	0.57	1.08	1.37	79			Sandstone as above, shale clast in middle				
Box 21											
	0.51						Sandstone coarse to medium grain, stick				
97.38											
	0.08						Rubble - sandstone				
	0.29	1.48	1.53	97			Sandstone medium grain, broken, iron stain		23° x 2 15°	R 4	
	0.45						Sandstone medium grain, coal wisps at bottom, stick			R 4	
	0.67						Sandstone coarse grain, coal wisps, stick			R 4	
98.91											
	0.54						Sandstone as above, stick			R 4	0
	0.33	1.51	1.67	90			Sandstone as above broken			R 4	0
	0.64						Sandstone medium and coarse grain, coal wisps at top and bottom, stick			R 4	1
100.58											
	0.97						Sandstone medium-coarse grain, stick				
	0.09	1.55	1.53	101			Conglomerate, light grey, quartz, pebbles				
	0.49						Sandstone medium coarse, stick				
102.11											
	1.29						Sandstone as above	103.4			
	0.05	1.56	1.52	103	103.52		Coal - bright				
	0.11						Coal - powder				
	0.02						Shale dark grey, coaly material				
	0.09						Coal - rubble	118			
103.63											
	0.06						Coal - bright, rubble				
	0.05						Carbonaceous Shale - powder				
	0.05						Shale - carbonaceous				

DIAMOND D CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 108 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.13						Coal - dull with bright bands				
	0.04	1.55	1.53	101			Coal - rubble				
	0.14						Coal - bright and dull bnads				
	0.86						Coal - dull with bright bands, broken stick to broken				
	0.06						Shale - dark grey, carbonaceous				
	0.08						Coal dull, pyrite				
	0.01						Shale carbonaceous				
	0.07						Coal - rubble				
105.16											
Box23	0.11						Coal - rubble				
	0.20						Coal - dull - stick				
	0.07						Coal - powder				
	0.50	1.35	1.52	89			Coal - dull with bright bands, broken sick		106.15		
	0.10				106.28		Shale carbonaceous, coaly material				
	0.09						Shale - rubble	119			
	0.05						Shale - clay				
	0.23						Rubble - mostly shale, some coal		105.68		
106.68											
	0.07				106.76		Coal - rubble (caved?)				
	0.83						Coal dull with bright bands, pyrite, broken stick				
	0.10						Shale - carbonaceous, coaly material				
	0.05	1.46	1.52	96			Rubble - coal and shale	120			
	0.15						Coal - rubble				
	0.10						Coal - dull with bright bands				
	0.08						Coal - powder				
	0.08						Coal - dull with bright bands		108.2		
108.20											
	0.34				108.46		Shale - carbonaceous wisps and lenses, broken				
	0.06	0.60	0.61	98			Coal - dull with bright bands				
	0.20						Shale - carbonaceous, rubble				
108.8											
	0.28						Shale carbonaceous, coal wisps, broken				

DIAMOND D CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 108 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.40						Shale - dark grey, coal lenses in middle (0.01), stick				
Box24											
	0.23						Shale; silty, carbonaceous with plant debris and slicks; broken at top			R 2	
	0.33	1.24	1.22	102			Siltstone; carbonaceous; medium-dark grey; with plant debris			R 3	
110.03											
	0.45	1.51	1.53	99			Siltstone as above, with coal stringers becoming sandy to base			R 3	
	1.06						Siltstone sandy; with very fine grain sand; medium grey			R 3	
111.56											
	0.74	1.54	1.52	101			Siltstone as above with occasional calcite filled fractures				
	0.80					67-70	Sandstone; fine grain, medium grey; calcareous with carbonaceous laminated			R 3	
113.08											
	0.62	1.55	1.52	102			Siltstone/Sandstone interlaminated			R 3	
Box25											
	0.93						Siltstone; dark grey; with slicks, coaly stringers, calcite filled fractures		1/46 1/73 1/68	R 3	3
114.60											
	1.47	1.47	1.53	96			Siltstone as above with very fine grain sandstone wisps			R 3	
116.13											
	1.57	1.57	1.52	112			Siltstone as above with slicks		1/20	R 3	1
117.65											
	0.23						Siltstone sandy, medium-dark grey				
Box26											
	0.52						Siltstone as above		1/08	R 3	
	0.49	1.50	1.53	98			Sandstone very fine grain; medium grey, interlaminated with carbonaceous siltstone, disturbed, ripple, crossbedding				

DIAMOND DF CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 108 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.93						Shale as above, slightly calcareous			R 3	
131.37	0.44						Shale dark grey, stick		20° 30° 53°		
	0.17						Shale as above - broken - rubble				
	0.07	1.48	1.52	97			Powder - coal and shale				
	0.46						Rubble and powder - shale				
	0.11						Powder - coal and shale	132.65			
	0.23				133.04		Coal - Rubble SEAM #10B				
132.89											
	0.20						Coal - dull; rubble				
	0.05	1.51	1.53	99			Coal - powder				
	1.26						Coal - dull with bright bands, broken, minor shale bands (0.01) in upper half	121			
134.42											
Box30	1.25	1.25	1.52	82			Coal - powder and broken				
135.94											
	0.55						Coal - powder and broken				
	0.55	1.19	1.52	78			Coal as above with thin shale splits (0.01)				
	0.09						Shale dark grey, broken				
137.46								122			
	0.08						Coal and Shale, powder		137.55		
	0.25	1.45	1.54	94	137.90		Shale dark grey, broken stick, slick on joints		25°		
	1.12						Shale as above, stick		60° 45°	R 3	2
139.00											
	0.25						Shale as above				
Box31											
	1.24	1.49	1.51	97			Shale as above				
140.51											
	0.67						Shale as above		50° 73°		
	0.18						Shale as above, broken				
	0.06						Shale as above, powder				
	0.10						Shale as above, broken				
	0.35	1.36	1.53	89			Shale as above, rubble-powder				

DIAMOND DR CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 108 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
142.04								142.04			
	0.05				142.57		Coal - Rubble SEAM 10A				
	0.42						Coal - dull with bright bands, broken stick				
	0.50						Coal - dull, broken				
	0.09						Coal - dull with bright bands				
	0.38	1.44	1.52	95							
143.56								123			
Box32	1.02						Coal - dull, broken				
	0.15						Coal - dull with bright bands, broken				
	0.28	1.45	1.52	95			Coal - powder				
145.08											
	0.10				145.80		Coal - dull with bright bands		145.18		
	0.03	1.45	1.53	95			Sandstone medium grain with coal stringers				
	1.32						Sandstone medium grey medium-dark grey, carbonaceous bedding indistinct				
146.61											
	1.39	1.57	1.52	103		70	Sandstone as above with slicks, gypsum stained		1/201/531/58		2
Box33											
	0.18					70-78	Sandstone as above with small pebbles (2mm)				
148.13											
	1.52	1.52	1.53	99			Sandstone as above with occasional pebble band		1/66 1/71		1.5
149.66											
	0.74						Sandstone as above		1/78		1
	0.14	1.54	1.52	101			Sandstone as above, broken				
	0.66						Sandstone as above, not broken		1/85		.5
151.18											
	0.95	1.49	1.52	98			Sandstone as above minus pebbles				
Box33											
	0.54						Sandstone as above, low angle planar crossbedding		1/53		2
152.7											
	1.55	1.55	1.53	101		69-84	Sandstone as above with 2 bands of large (10mm) rounded pebbles and coarse to medium grained at base				0

DIAMOND F CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 110 SHEET No: 1

DATE BEGUN: _____ DEPTH: _____ BEARING: _____ U.T.M. _____

DATE FINISHED: _____ ELEV. COLLAR: _____ TOTAL DEPTH: _____ COAL LICENSE: _____

LAT.: _____ HOLE ANGLE: _____ LOGGED BY: _____ CORE SIZE: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
Boxl											
10.36	0.16						Shale, medium grey, silty broken to powdered, badly weathered				
	0.13	0.29	1.15	25			Clay, black carbonaceous, powdered, some minor weathering				
11.51							LOST CORE				
19.81	0.16	0.16	3.96	4			Sandstone, very fine grain-fine grain, medium grey, ripple cross-bedding, calcareous broken to broken stick, rubble zone				
23.77	0.32						Sandstone, fine grain, medium grey, some carbonaceous wisps throughout ripple cross-bedding, calcareous bedding poorly defined, abrupt below				
	0.08						Rubble zone, broken				
	0.08						Shale, dark grey, weahtered, friable, moulded in fingers				
	0.10	0.58	0.61	95			Clay, light grey to brown broken to powdered hardness S1				
24.38	0.29						Sandstone, very fine grain, fine grain, light-medium grey, calcareous, broken, rubble zone				
	0.47						Siltstone, dark grey carbonaceous with carbonaceous plant fragments very fine grain sandstone bands at top (.05m thick) abundant calcite filled fractures, calcareous, abrupt below				
	0.07						Shale, medium grey to weathered brown, weathered broken to powder				
	0.11						Shale, as above, very frable broken stick				
	0.38	1.32	1.53	86			Shale, medium grey, very silty, calcareous, trace carbonaceous plant fragments and wisps, numerous calcite filled fractures, iron stain on joint				

DIAMOND P 1 CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 110 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
25.91	0.08						Sandstone, broken, rounded, sluffed?				
	0.78						Shale, medium dark grey, silty, carbonaceous with carbonaceous plant fragments, calcite filled fractures .02 calcite vein near top, red brown weathered shale surrounds calcite fractures, very calcareous				
Box2	0.44	1.30	1.52	86			Shale, as above, with weathered zone (.01) at base				
27.43	0.26						Shale, weathered, red-brown, calcareous hardness S5				
	1.22	1.48	1.53	97			Shale, dark grey, silty, carbonaceous with carbonaceous plant fragments, calcareous, numerous calcite filled fractures, weathered red brown around fractures, .05 fissile zone in middle				
28.96	0.27						Shale, as above				
	0.22						Shale, as above, but has (numbeorus) multicolored weathered bands.				
	0.16						Claystone, medium grey to light brown, carbonaceous with abundant carbonaceous plant fragments, varved, calcareous with calcite filled fractures				
	0.03						Shale, black, very carbonaceous, very calcareous				
	0.19					66	Siltstone, with interbedded very fine grain sandstone, light to dark grey calcareous, calcite filled fractures, carbonaceous				
	0.21	1.08	1.52	71			Siltstone, as above, weathered red-brown				
30.48	0.03						Siltstone, as above				
	0.71						Shale, light to dark grey, carbonaceous with trace carbonaceous plant fragments, calcareous, calcite filled fractures silty, red-brown weathering along fractures				

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 110 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
Box3											
	0.23						Shale, as above				
	0.55	1.52	1.37	111			Shale, light brown to black, very fissile, S5, clay-rich, carbonaceous, very calcareous, weathered				
31.85											
	0.74					78	Shale, silty with siltstone interbeds, carbonaceous with carbonaceous plant, very calcareous, ripple and cross-bedding in siltstone, red-brown weathering throughout				
	0.12						Shale, light brown to black, very fissile, S 5 clay, rich, carbonaceous, very calcareous, weathered				
	0.40	1.26	1.53	82			Shale, dark grey to black, carbonaceous with carbonaceous plant fragments, calcareous, few carbonaceous wisps throughout				
33.38											
	0.07						Shale, as above, rubble sluffed?				
	0.11						Shale, light brown to black, fissile, carbonaceous weathered, abrupt below				
	0.45						Shale with silty laminae, carbonaceous with trace carbonaceous plant fragments, with a .06 weathered zone near base, calcareous				
	0.09						Shale, light brown to black broken to powdered				
	0.35						Shale, dark grey to black, carbonaceous with carbonaceous plant fragments, calcareous				
	0.1	1.17	1.37	85			Shale, as above, rubble zone				
34.75											
	0.1						Shale, as above, rounded, sluffed				
	0.24						Shale, as above, very carbonaceous and fissile at base				
	0.16	1.21	1.52	80	35.22		Coal dull broken to powdered	SEAM #4u	35.05		
Box4									137		

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 110 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.43						Coal, dull, broken, sheared				
	0.28						Coal, dull and bright, broken stick, sheared in part	137			
36.27	0.55	1.05	1.53	69			Coal, dull and bright, broken stick				
	0.30						Coal, dull, broken stick				
	0.20						Coal, dull, broken powdery				
37.80	0.14				38.20		Coal, dull with bright broken stick	137			
	0.17						Shale, dark grey to black, carbonaceous, iron staining throughout, clay near top, broken to powdered	137			
	0.43						Shale, dark grey to black carbonaceous with trace carbonaceous plant fragments with iron staining along fractures, silty with .01 carbonaceous stringer near top				
	0.55	1.29	1.52	85			Shale, with interlaminated siltstone units (.01 thick) carbonaceous with trace carbonaceous plant fragments, irregular bedding, iron stain along fractures				
39.32	0.78						Sandstone, very fine grain with some siltstone interbeds bedding poorly defined with some ripple cross-bedding intense iron staining, calcareous in part shaly at base				
Box 5	0.28						Shale, carbonaceous with coaly layers, transitional below, stick	40.35			
	0.23	1.40	1.52	92	40.54		Coal, dull, broken stick SEAM #4L				
	0.03						Shale, carbonaceous, broken, stick				
	0.05						Coal, dull and bright, stick				
	0.03						Coal, dull, broken stick	138			
40.84											

DIAMOND P CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 110 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.15						Coal, dull with bright, broken stick				
	0.22	0.82	1.53	53			Coal, dull, broken stick				
	0.45						Shale, carbonaceous, plant material, broken stick				
42.37											
	0.24						Coal, dull and bright, broken stick	137			
	0.12						Shale, carbonaceous, coaly stringers, slicks				
	0.05						Coal, dull and bright, stick				
	0.07				42.80		Shale, carbonaceous, broken			43.06	
	0.33	1.04	1.52	68	40.54		Coal, dull with bright, minor shaley stringers broken			43.55	
	0.23						Shale, carbonaceous, broken stick				
43.89											
	0.87						Siltstone, shaley, poorly bedded, carbonaceous with part with some slicks, stick				
	0.10						Coal and clay mixed, soft				
Box 6											
	0.38	1.35	1.53	88			Shale, medium-dark grey silty calcareous carbonaceous with trace plant fragments, coaly wisps at top, iron stain along fractures				
45.42											
	0.16						Shale, as above, broken				
	0.10						Shale, black, coaly slightly weathered stick				
	0.32	0.84	1.46	58			Shale, coaly, powdered to broken abrupt below				
	0.16						Shale, dark grey, carbonaceous, silty very calcareous iron staining along fractures				
	0.10						Shale, as above rubble zone				
46.88											
	0.39	0.69	0.82	84			Siltstone, medium dark grey, carbonaceous plant fragments throughout, irregular bedding, very calcareous, iron stain along fractures				
	0.30						Shale, silty, broken to powdered				
47.70											

DIAMOND D CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC110 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.78						Sandstone, very fine-fine grain medium and dark grey ripple and cross-bedding trace carbonaceous plant fragments, very calcareous, with calcite filled fractures near top with .1 shale unit at top				
	0.02						Clay, dark grey, S1			51	
	0.07						Shale, dark grey to black, carbonaceous, with trace carbonaceous plant fragments				
	0.06						Shale, coaly, powdered				
	0.10	1.03	1.07	96			Shale, medium-dark grey trace carbonaceous plant fragments broken				
48.77											
	0.71						Shale, medium grey with sandstone units near base, carbonaceous, calcareous .01 coaly stringer near top, iron staining on fractures				
Box7											
	0.77	1.48	1.52	97			Siltstone, medium dark grey carbonaceous, very calcareous homogeneous				
50.29											
	0.44						Siltstone, as above, with some very fine grain sandstone laminae abrupt below				
	0.97	1.41	1.53	92			Shale, dark grey, carbonaceous silty, with carbonaceous plant fragments with siltstone laminae near base, very calcareous with minor calcite filled fractures in middle with .06 coaly shale band at top				
51.82											
	1.53	1.53	1.52	101			Shale, as above				
53.34											
	0.15						Shale, as above				
	0.07						Coal, dull, powdered				
	0.09						Shale, medium grey, carbonaceous with carbonaceous plant fragments silty, calcareous, broken stick				

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 110 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
Box8											
	1.08	1.39	1.52	91			Shale, as above, with coaly wisps throughout with .10 broken zone at top with .2 broken zone in middle iron stain on fractures				
54.86	1.19						Shale, as above, carbonaceous at base, less calcareous to base	54.20			
	0.17	1.36	1.53	89	56.12		Coal, dull, broken, powdered SEAM #5				
56.39	0.05						Coal, as above	151			
	0.10						Coal, dull, stick				
	0.11						Coal, dull, broken stick				
	0.23						Coal, dull with bright, stick				
	0.03						Coal, dull with bright, powdered				
	0.11						Coal, dull with bright, stick				
	0.08						Coal, dull, powder				
	0.23						Coal, dull with bright broken to powdered				
	0.11						Coal, dull with bright powder				
	0.10	1.15	1.52	76			Shale, black, carbonaceous iron stain along fractures				
57.91	0.03					58.20	Coal, dull, shaly				
	0.10						Shale, black carbonaceous iron staining along fractures	57.46			
Box9	0.40						Shale, as above, broken				
	0.05	0.58	0.92	63			Coal, dull and powdered				
58.83	0.45						Shale, dark grey, carbonaceous with carbonaceous plant fragments slightly silty, iron staining along joints and fractures, one slick, broken stick				
	0.08	0.53	0.91	58			Shale, as above, broken				
59.74											

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 110 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.96	0.96	1.22	79			Shale, dark grey to black, carbonaceous with plant fragments some silty laminae in middle (calcareous) iron staining on joints and fractures, broken zones throughout				
60.96	0.30						Shale, as above, stick				
	0.04						Coal, dull, powdered				
	0.79						Shale, as above, broken stick, calcareous throughout				
	0.25	1.38	1.83	75			Shale, as above, broken to powdered				
62.79											
Box10											
	0.39						Shale, as above, broken				
	0.83	1.22	1.52	80			Shale, medium-dark grey carbonaceous with trace carbonaceous plant fragments, few silty laminae, in middle, very calcareous, mottled, iron stain on fractures .02 coal stringer at base				
64.31											
	0.87	1.43	1.52	94			Shale, as above				
	0.56						Shale, as above, weathered red brown				
65.83											
	0.34						Shale, as above, not weathered				
	0.33						Shale, as above, weathered				
	0.52	1.49	1.53	97			Shale, as above, weathered, broken				
	0.22						Shale, as above, not weathered, stick				
Box11											
	0.08						Shale, as above				
67.36											
	0.90	1.53	1.52	101			Shale, medium dark grey, carbonaceous trace carbonaceous plant fragments, silty, minor calcite filled fractures very calcareous, iron stain on fractures broken at top				
	0.20						Shale, as above, broken				

DIAMOND E CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 110 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.43						Shale, as above, not broken				
68.88											
	0.56						Shale, as above, weathered along fractures, abrupt below				
	0.79						Shale, dark grey to black, very carbonaceous, trace carbonaceous plant fragments, iron-stain				
	0.10	1.45	1.53	95			Shale, medium grey, carbonaceous plant fragments, silty, iron stain along joints				
70.41											
	0.22						Shale, as above				
	0.10						Coal, dull, broken				
	0.26						Shale, dark grey to black, carbonaceous, coal wisps throughout, iron staining on joints				
	0.16						Coal, dull with bright stick, shaly at top				
Box 12											
	0.07						Coal, dull, powdered				
	0.48	1.32	1.52	87			Shale, medium dark grey carbonaceous plant fragments slightly silty with some siltstone laminae in middle iron staining on joints				
	0.03						Coal, dull with bright broken to powdered				
71.93											
	0.07						Coal, dull with bright, stick				
	0.30						Shale, medium grey, carbonaceous carbonaceous plant fragments slightly silty, broken				
	0.42						Shale, as above, stick slick at bottom				
	0.09						Shale, as above				
	0.08						Coal, dull, and powdered				
	0.07	1.03	1.53	67			Shale, as above, broken				
73.46											
	0.45q						Shale, as above, with numerous coal wisps and slicks with pyrite stain				
	0.04						Coal, dull with bright				

DIAMOND P CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 110 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.62	1.11	1.52	73			Shale, as above, broken				
74.98	0.20						Shale, as above				
	0.50	0.70	0.76	92			Shale, as above, not broken				
Box13											
75.74											
	1.48	1.48	1.68	88			Shale, medium to dark grey, carbonaceous with trace carbonaceous plant fragments, 2 interbedded siltstone bands .02 m thick towards base a .14 broken zone near top				
77.42											
	1.52	1.52	1.52	100			Shale, as above, with some minor calcite filled fractures in middle and siltstone bands at top (.01 m thick)				
78.94											
	0.10						Coal and shale, broken, powdery				
	1.30					70	Shale with silty interbeds, moderately bedded, becoming more shaly below, transitional below				
	0.10	1.50	1.53	98			Shale, as above, broken				
80.47											
Box14											
	0.10						Shale, rounded, sluff				
	0.27	0.37	1.52	24	81.00		Coal, dull, sheared, broken SEAM #6u?	3144?			
81.99											
	0.05						Coal, dull, broken				
	0.18						Coal, dull and bright, stick				
	0.10	0.33	0.61	54			Coal, dull with bright, broken	191			
82.60											
	0.12						Coal, dull, sheared, broken				
	0.60						Coal, dull, sheared, broken stick, some iron staining on slicks				
	0.12						Coal, dull, very sheared				

DIAMOND D CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 110 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.10	0.94	1.01	93			Coal, dull, stick				
83.61											
	0.05						Shale, carbonaceous, broken	141			
	0.10						Coal, dull, broken-powdery				
	0.15				84.45		Coal, dull with bright, stick				
	0.10	0.40	0.67	60			Shale, carbonaceous and slicked, broken	84.11			
84.28											
	0.21						Shale, as above				
	0.88	1.09	1.06	103			Shale, silty, carbonaceous with occasional coaly wisps				
85.34											
Box 15											
	1.38	1.38	1.53	90			Shale, dark grey to black, carbonaceous with trace carbonaceous plant fragments, trace coaly stringers .005 m thick in middle, iron staining along joints and fractures, trace pyrite stains.				
86.87											
	1.35	1.35	1.52	89			Shale, as above with .20 broken zone in middle and a .01 m thick coaly stringer in base of broken zone				
88.39											
	1.46						Shale, as above, pyrite stains more abundant				
Box 16											
	0.07	1.53	1.53	100			Shale, as above, broken				
89.92											
	1.24	1.24	1.52	82			Shale, as above not broken, coaly in middle with .03 coal stringer, few pyrite stains, broken (.08m) at bottom				
91.44											
	1.52	1.52	1.52	100			Shale, as above with coaly stringers (.01 - .02 m thick) throughout, slicks at top broken at base				
92.96											

DIAMOND Γ CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 110 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	1.10	1.10	1.53	72			Shale, as above, little more silty, a .18 broken zone in middle				
94.49 Box17											
95.55	0.40						Shale, as above, broken, redrilled, rounded, caved?				
	0.10	0.50	0.77	65			Shale, as above, not broken				
96.32	0.15						Shale, as above, broken, redrilled, rounded, caved				
	0.68						Shale, as above, not broken, more carbonaceous, less silty				
	0.11	0.94	1.22	77	97.80		Coal, dull with bright, powdery				
97.54	0.47						Shale, black, very carbonaceous, numerous slicks throughout with pyrite staining on the slicks				
	0.16	0.63	1.52	41			Coal, dull with bright bands, broken stick				
99.06	0.13				99.28		Coal, dull and bright, broken stick				
	1.12	1.25	1.42	88			Shale, medium to dark grey, carbonaceous with carbonaceous plant fragments, slightly silty at top increasing toward base, pyrite staining, decreasing as move toward base				
100.48	0.59						Shale, as above, with no pyrite stains				
Box18	1.00	1.59	1.62	98			Shale, as above with .10 badly weathered zone in middle with red-brown clay and iron staining along fractures very silty at base				
102.10	1.53	1.53	1.53	100			Shale, medium grey, carbonaceous with trace carbonaceous plant fragments, silty, homogenous				
103.63											

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 110 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	1.53	1.53	1.53	100			Shale, as above with some iron stains on joints and fractures, some silty units in middle which are irregularly bedded				
105.16											
Box19	0.11						Shale, as above				
	1.43	1.54	1.52	101			Shale, as above, slightly broken at base				
106.68											
	1.60	1.60	1.83	87		72	Shale, as above with some soft sediment of formation and bioturbated in bottom half.				
108.51											
	1.22						Shale, medium to dark grey, carbonaceous with trace carbonaceous plant fragments, silty, slightly calcareous at top and base, some soft sediment deformation at base, iron stained along joints and fractures				
Box20											
	0.29	1.51	1.52	99			Shale, as above				
110.03											
	0.88	0.88	1.53	58			Siltstone, light to medium grey, trace carbonaceous plant fragments, very calcareous, a .13 weathered red-brown zone in middle, few worm burrows, iron staining on fractures and joints				
111.56											
	1.50	1.50	1.52	99			Interbedded siltstone and silty shale, siltstone very calcareous while shale is not calcareous, slightly carbonaceous with carbonaceous plant fragments, some iron staining on joint, some minor ripple bedding and cross-bedding				
113.06											
	1.25						Siltstone/Shale as above, with shale becoming more prominent, a .08 broken zone near base				

DIAMOND 1 CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 110 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
Box21	0.28	1.53	1.52	101			Shale, medium to dark grey, carbonaceous with trace carbonaceous plant fragments, silty to very silty in parts, calcareous at base, some iron staining along joints				
114.60	1.43	1.43	1.53	93			Shale, as above				
116.13	1.50	1.50	1.52	99			Shale, medium to dark grey, few light grey very silty bands, carbonaceous with trace plant fragments calcareous, some minor sediment deformation, iron staining along joints and fractures, 2 small broken zones (.02-.04) m near top				
117.65	0.78						Shale, as above				
Box22	0.63	1.41	1.53	92			Siltstone with some shale interbeds, carbonaceous with carbonaceous plant fragments, soft sediment deformation in shale and siltstone contacts, patchy calcareous, iron stains along joints and fractures				
119.13	1.46	1.46	1.52	96			Siltstone as above, transitional below				
120.7	1.47	1.47	1.53	96			Shale, with some siltstone interbeds, carbonaceous with carbonaceous plant fragments, disturbed bedding, patchy calcareous, few coaly wisps and stringers in bottom half, trace pyrite stains.				
122.23	0.45						Shale, as above				
Box23	1.05	1.50	1.52	99			Shale, as above, becoming more carbonaceous and less silty toward base				

DIAMOND / 1 CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 110 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
123.75	1.50	1.50	1.52	99			Shale, as above, fairly homogenous				
125.27	1.53	1.53	1.53	100			Shale, medium to dark grey, carbonaceous with carbonaceous plant fragments, slightly silty, some pyrite staining, iron stains along joints and fractures				
Box24 126.80	1.26	1.26	1.52	83			Shale, as above, broken at base (.15 m) 1 slick in middle, pyrite stains very infrequent more carbonaceous				
128.32	0.56	0.56	0.76	74			Shale, as above, no pyrite stains				
129.08	0.09						Shale, as above, broken to powdery				
	0.03						Coal, dull with bright, powdery				
	0.04						Shale, as above, powdery				
	0.12						Coal, dull with bright, powdery				
	0.03	0.31	0.46	67			Shale, carbonaceous broken				
129.54	0.40	0.40	.30	133			Shale, dark grey to black, carbonaceous with trace plant fragments numerous coal wisps and staingers throughout				
129.84	0.62						Shale, as above, with .02 coal stringer at top				
	0.20						Coal, dull with bright powdery				
	0.28						Shale, as above with .05 powdered coaly zone in middle				
Box25	0.30	1.40	1.53	92			Shale, as above, broken, slicked				
131.37											

DIAMOND 1 CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 110 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.10						Shale, as above, not broken				
	0.04						Coal, dull, powder				
	0.13						Shale, as above, broken				
	0.04						Coal, dull, powdery				
	1.07	1.38	1.52	91			Shale, dark grey to black, carbonaceous with carbonaceous plant fragments silty at base, slightly calcareous at base, few coaly stringers at base				
132.89											
	0.33						Siltstone, shale, poorly bedded, disturbed, abrupt below, stick				
	0.05						Coal, bright, broken-powdery				
	0.36						Shale, silty, minor coaly stringers, stick				
	0.03						Coal, bright, broken-powdery				
	0.08						Shale, silty, carbonaceous, stick				
	0.04						Shale and coal mixed broken, powdery				
	0.27						Shale, silty, carbonaceous, stick				
	0.08						Coal, dull, broken				
	0.07						Shale, silty, carbonaceous, stick				
	0.12	1.43	1.53	93			Coal, dull, shaley in part, stick				
134.42											
	0.30						Shale, carbonaceous, silty, coaly stringers and wisps				
	0.06						Shale and coal mixed broken to powdery	134.29			
	0.03					134.65	Coal, dull, sheared, broken				
	0.26	1.49	1.52	98			Coal, dull, slicked along bedding surfaces, broken stick	143			
Box 26	0.06						Coal, dull, shaley, pyritic discs on cleat, stick				
	0.20						Coal, dull, broken				
	0.20						Coal, dull, sheared and broken				
	0.23						Coal, dull, stick				
	0.15						Coal, dull and bright, sheared, broken				
135.94											
	0.07						Coal, dull with bright stick				

DIAMOND P L CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 110 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.02	1.19	1.53	78			Shale, carbonaceous, stick				
	0.30						Coal, dull with bright broken stick				
	0.15						Coal, dull and bright with stick				
	0.04					136.53	Coal, dull and bright powdery		136.67		
	0.17						Shale, silty carbonaceous, stick				
	0.06						Coal and shale, mixed broken to powdery	144			
	0.33						Shale, silty carbonaceous, broken stick				
	0.05						Coal, dull, sheared broken				
137.47								144			
	0.12						Shale, carbonaceous with numerous coal wisps slicked stick				
	0.10					137.63	Shale, as above, broken		137.73		
	0.22	1.30	1.52	86			Coal, dull, sheared in part broken to powdery				
	0.23						Coal, dull sheered				
	0.15						Shale, very carbonaceous, broken stick				
	0.20						Coal, dull, broken	145			
	0.28						Coal, dull with bright broken to powdery				
138.99											
	0.02						Shale, carbonaceous, broken stick				
	0.10						Coal, dull with bright broken to powdery				
	0.09						Shale, carbonaceous, broken stick				
	0.03						Coal, dull broken to powdery				
	0.07	1.35	1.52	89			Shale, carbonaceous with coaly stringers				
	0.12						Coal, and shale mixed broken to powdery sheered				
	0.15						Coal, dull trace pyrite on cleat broken stick				
	0.03						Shale, carbonaceous, slicked				
Box 27	0.28						Coal, bright and dull stick				
	0.17						Coal, dull sheered broken stick				
	0.07						Coal, dull with bright broken				
	0.20						Coal, dull pyrite discs on cleat stick				
	0.02						Shale, carbonaceous, stick				
140.51											

DIAMOND P CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC110 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.06						Coal, dull and bright broken stick				
	0.07						Coal, dull broken stick with trace pyrite				
	0.18						Coal, some minor shaley parting, broken				
	0.10						Coal, dull, stick				
	0.15						Coal, dull broken stick	145			
	0.03	1.22	1.22	100			Coal, bright broken stick				
	0.12				141.20		Coal, dull broken stick		141.22		
	0.21						Shale, carbonaceous with numerous coaly stringers broken stick				
	0.10						Coal and shale mixed broken				
	0.20						Shale, carbonaceous with numerous coal wisps stick				
141.7B											
	0.33	1.33	1.53	87			Shale, silty carbonaceous with coaly stringer and wisps coming more silty to base, transitional below				
	1.00						Siltstone shaley with minor coaly wisps some slicks				
143.25											
Box28	0.43	0.43	1.52	28			Siltstone as above				
144.7B											
	0.84						Siltstone as above				
	0.63	1.47	1.52	97		77	Sandstone very fine grain moderately bedded poorly developed ripple bedding calcareous, becoming finer to base transitional below				
146.3											
	0.15						Sandstone as above				
	0.33						Shale, silty carbonaceous in part with some slicks transitional below, homogenous				
	1.0	1.48	1.53	97			Shale, carbonaceous with numerous coaly stringers and wisps occasional minor silty layers give in part bedding transitional below				
147.8B											
Box29	1.3	1.30	1.52	86			Shale, as above				
149.35											

DIAMOND T CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 110 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.60						Shale, as above				
	1.14	1.74	1.53	114			Siltstone shaley no bedding homogeneous occasional calcareous veins.				
150.88											
	0.20						Siltstone, as above				
	0.80						Siltstone, calcareous, carbonaceous but general homogeneous transitional below				
	0.61	1.61	1.83	88			Shale, silty some disturbance very poorly defined bedding				
152.71											
	0.44					68	Shale, silty with minor sandy layer, some disturbance with moderate bedding when weathered yellow brown calcareous				
Box30											
	1.09	1.53	1.52	101			Shale, dark grey to black, carbonaceous with plant fragments, silty with siltstone bands at top, disturbed, siltstone is calcareous, .1 m weathered zone at top, iron stains on joints and fractures, less silty at base, transitional below				
154.23											
	1.29	1.29	1.52	85			Shale, as above, trace slick				
155.75											
	0.74	0.74	0.92	80			Shale, as above				
156.67											
	0.59						Shale, as above				
Box31											
	0.97	1.56	1.52	103			Shale, as above with some disturbed bedding possibly due to change in current speed during deposition?				
158.19											
	0.36						Shale as above silty at base abrupt below				
	0.52						Siltstone, medium grey, trace carbonaceous plant fragments, some sandy interbeds, bedding disturbed				

DIAMOND D CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 110 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.70	1.58	1.53	103			calcareous, trace iron stains, abrupt below Shale, dark grey, carbonaceous with plant fragments silty, iron stains on joints, some weathering in middle, broken stick in middle				
159.72	1.25	1.25	1.43	87			Shale, as above with minor calcite filled fractures at base and coaly stringer near top				
161.15	0.21						Shale, as above				
Box32	1.30	1.51	1.46	103			Shale, as above, with few dirty lamina in middle which are calcareous, 2 pyritic nodules at base, .05 m broken zone in middle				
162.61	1.25	1.25	1.07	117			Shale with some silty and sandy interbeds, carbon- aceous with trace plant fragments, disturbed beds				
163.68	0.03						Shale, as above, abrupt below				
	1.13	1.16	1.22	95			Siltstone with few shale and sandy interbeds, very calcareous, carbonaceous with few plant fragments fairly homogenous				
164.90	0.04						Siltstone, as above, abrupt below				
	0.49						Shale, dark grey to black, carbonaceous with carbon- aceous plant fragments, silty, iron staining on joints and fractures				
Box33	0.91	1.44	1.52	95			Shale, as above with coaly wisps and stringers at base .005 - .02 m in thickness				
166.42	1.42	1.42	1.52	93			Shale, as above, without coaly material and a .10m weathered zone at base				

DIAMOND D CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 110 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
167.94	1.53	1.53	1.53	100			Shale, as above, with weathering at top, few silty calcareous veins around weathered zones, weathering very calcareous, abrupt below				
169.47	0.25						Siltstone, shaly medium grey, slightly carbonaceous with trace plant fragments, some iron stains along joints and fractures, transitional below				
Box34	0.68						Siltstone as above abrupt below				
	0.62	1.55	1.52	102			Shale, carbonaceous with abundant plant fragments, silty, calcareous upper half, trace coal wisps near base, few minor calcite fill veins throughout, transitional below				
170.99	1.51	1.51	1.53	99			Shale, as above, but not calcareous except where calcite veins are				
172.52	0.67						Shale, medium to dark grey, carbonaceous with trace plant fragments, silty with few siltstone bands .01-.02 m thick toward base, moderately calcareous, trace iron stains.				
	0.05						Coal, dull, shaly, broken to powdery				
	0.68						Shale, as above, not calcareous, some disturbed bedding				
Box35	0.08	1.48	1.52	98			Shale, as above				
174.04	1.32	1.32	1.52	87			Shale, light to dark grey, slightly silty, becomes carbonaceous toward base with trace plant fragments iron staining and weathering along joints and fractures broken stick				

DIAMOND Γ CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: Lc 110 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
175.56	0.25						Shale, medium to dark grey, carbonaceous with plant fragments, slightly silty, a few worm bourghs at top iron stains and weathering along joints and fractures				
	0.14						Shale, as above, broken to powdered, red-brown				
	0.93	1.32	1.53	86			Shale, as above not broken				
177.09	0.31						Shale, as above				
	0.16						Shale, as above, broken to powdered weathered red-brown				
	0.56	1.03	1.22	84			Shale, as above, not broken				
Box36											
178.31	0.08						Shale, broken, rubble, sluff				
	0.89	0.97	1.52	65			Shale, medium to dark grey, carbonaceous with trace plant fragments, silty, iron stains on joints and fractures, some small weathering near base, broken to broken stick, calcareous at base				
179.83	0.28						Shale, as above, calcareous at top only				
	0.10						Shale, dark grey to weathered red - brown, extreme weathering, trace bioturbated, broken				
	0.10	0.48	0.21	229			Shale, dark grey, carbonaceous with trace plant fragments, silty, iron stain on joints				
180.04	1.48	1.48	1.93	77			Shale, dark grey to black, carbonaceous with trace plant fragments, slightly silty, trace slicks, few calcite veins near base, some iron stains at base, fairly homogenous				
181.97											

DIAMOND T CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 110 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.75						Shale, as above, with few coaly wisps				
Box37	0.31	1.06	1.52	70			Shale, as above				
183.49	0.88						Shale, as above, becoming silty with few very silty bands at base				
	0.30						Shale, medium grey with red brown weathering very silty a .10 calcareous unit at base, trace plant fragments				
	0.37	1.55	1.52	102			Shale, medium to dark grey, carbonaceous with trace plant fragments, trace coaly wisps, silty with few very silty bands, iron stains on joints and fractures				
185.01	1.40	1.40	1.53	92		78	Shale, with some interbedded very silty beds throughout, medium to dark grey, carbonaceous with plant fragments, trace coaly wisps, some soft sediment deformation, cross-bedded, trace iron staining, calcareous in middle with minor calcite filled fractures throughout, transitional below				
186.54	0.90					80	Shale, as above				
Box38	0.65	1.55	1.52	102			Shale, as above				
188.06	1.02	1.02	1.53	67			Shale, as above, with more iron staining and a .12 weathered zone near base and a few quartz crystals in fracture near base, patchly calcareous				
189.59											

DIAMOND D' CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 110 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	1.55	1.55	1.52	102		82	Shale, with silty interbeds, carbonaceous with trace plant fragments, silty, trace iron stains, trace pyrite stains, patchly calcareous, some soft sediment deformation, cross-bedding, trace calcite filled fractures.				
191.11	0.92						Shale, as above with trace coaly wisps and 1 minor calcite vein near base (.004 m) no pyrite stains				
Box39	0.64	1.56	1.52	103			Shale, as above				
192.63	1.53	1.53	1.53	100		70	Shale, as above more minor calcite veins through-out, patchly calcareous				
194.16	1.44	1.44	1.52	95			Shale, as above becoming less silty and more carbonaceous				
195.68	0.48						Shale, medium to dark grey, carbonaceous with plant fragments, silty, one minor calcite filled fracture near base, slightly calcareous				
Box40	1.00						Shale, silty, mediu-dark grey, carbonaceous with carbonaceous plant fragments, with occasional silty very fien grain sand laminae, 2 small calcite filled fractures and iron staining on joints.				
	0.04	1.52	1.53	99			Pyrite or Maragasite interlaminated with carbonaceous rich laminae, with coal stringer at base				
197.21	0.46	1.39	1.52	91			Shale, as above, broken stick with intense iron staining on fractures				

DIAMOND D CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 110 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.93						Shale, as above stick, lacking fractures and staining becoming dark grey (more carbonaceous) at base				
198.73	0.05						Shale, as above				
	0.03	1.74	1.52	114			Brecciated shale with malable, soft, yellow mineral fused drill bit				
	1.45						Shale, as above, dark grey, carbonaceous				
	0.21						Shale/Sandstone interlaminated dark-medium grey Shale (carbonaceous) and very fine grain medium grey sandstone, disturbed cross-bedding				
200.25											
Box41											
	1.21	1.21	1.54	79			Shale/Sandstone, as above				
201.79											
	0.69	.69	0.60	115			Shale/Sandstone, as above, broken and shaly at base				
202.39											
	0.12						Shale, dark grey black, slightly silty, carbonaceous, broken to powdered				
	0.13						Shale, as above, clay rich, waxy luster, broken stick				
	0.12	1.39	1.52	91			Shale, as above, powdered fissile				
	0.63						Shale, dark medium grey, silty, carbonaceous abundant iron stained fractures, broken to broken stick				
	0.39						Shale, as above stick				
203.91											
	0.67						Shale, as above				
Box42											
	0.66	1.33	1.53	87			Shale, black, very slightly silty, clay rich, homogeneous, iron oxide stain on joints, broken stick, carbonaceous				

carbonaceous

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 110 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
205.44	1.11	1.11	1.52	73			Shale, as above, with no silt, abundant iron oxide stain broken to powdered very carbonaceous with 3 powdered coaly bands (.02 and 0.07 thick)				
206.96	0.53						Shale, as above, slightly silty broken stick with thin coal wisps throughout				
	0.20	1.48	1.52	97			Shale, as above, broken				
	0.75						Shale, as above, becoming dark grey, less carbonaceous with silty wisps				
208.48	0.13						Shale, as above				
Box43	1.12	1.56	1.53	102			Shale, silty, medium-dark grey, carbonaceous, iron oxide stain on fractures and joints, occasional calcite filled fractures and occasional thin silty laminae, silty laminae are generally calcareous				
	0.31						Shale, as above, broken				
210.01	0.36	0.36	0.91	40			Shale, as above, broken				
210.92	0.77	0.77	1.53	50			Shale, as above, broken stick				
212.45	0.98						Shale, as above				
	0.30	1.28	1.52	84			Shale, as above, broken				
Box44											
213.97	0.58	0.58	0.61	95			Shale, as above, broken stick				
214.58	1.37	1.37	1.52	90			Shale, as above				
216.10											

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 110 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.32	0.60	0.61	98			Shale, as above becoming predominantly, less silty more carbonaceous, dark grey to black, broken				
	0.28						Shale, as above, broken				
216.71											
Box45	1.18	1.44	1.53	94			Shale, as above				
	0.26						Shale, as above, becoming less carbonaceous (medium grey) and siltier				
218.24											
	1.58	1.58	1.52	104			Shale, as above				
219.76											
	1.52	1.52	1.52	100			Shale, as above				
221.28											
	0.55						Shale, as above				
Box46											
222.50											
	0.46	0.46	0.92	50			Shale, dark grey, broken to rubble				
223.42											
	0.15	0.44	1.22	36			Shale, as above, rubble				
	0.29						Shale, as above, broken stick, iron stain on joints				
224.64											
	1.28	1.37	1.52	90			Shale, as above, broken down to broken stick	224.06			
	0.09				224.73		Coal, dull with bright bands, broken SEAM #8				
226.16											
	0.29	0.29	0.61	48			Coal, powder and rubble	159			
226.77											
	0.18						Coal, powder				
	0.10	0.99	1.22	81			Coal, rubble	227.12			
	0.15						Coal, dull with bright bands				
	0.56						Coal, powder and rubble				
227.99											
Box47											

DIAMOND I CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 110 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.35						Coal, powder and rubble				
	0.25	0.86	1.22	70			Coal, dull with bright bands, broken				
	0.16						Coal, powder	160			
	0.10						Coal, dull with bright bands, broken				
229.21											
	0.08						Coal, powder				
	0.15	0.43	0.61	70			Coal, rubble				
	0.20						Coal, powder and rubble, dull with bright bands				
229.82											
	0.05				229.74		Coal, rubble, caved				
	0.12	1.09	1.53	71			Coal, powder, shaley sampled by Golder				
	0.03				229.95		Coal, powder		230.04		
	0.16						Coal, dull				
	0.04						Coal, powder	161			
	0.13						Coal, dull with bright bands				
	0.10						Coal, broken		230.7		
	0.46						Coal, dull with bright bands				
231.35											
	0.06						Coal, rubble, caved?				
	0.10	1.05	1.52	69			Coal, broken				
	0.37						Coal, powder				
	0.52						Coal, dull, broken stick				
232.87											
	0.21						Coal, rubble	162			
Box48											
	0.19						Coal, dull with bright bands, broken stick				
	0.14	1.34	1.52	88			Coal, dull, broken stick				
	0.14						Coal, powder				
	0.41						Coal, dull with bright bands				
	0.15						Coal, "oolitic" texture - sandy?				
	0.10						Coal, dull with bright bands				
234.39											

DIAMOND P CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 110 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.12						Coal, broken				
	0.25	1.04	1.53	68			Coal, broken				
	0.13						Coal, dull with bright bands, broken				
	0.14						Coal, broken				
	0.40						Coal, powder to broken				
235.92											
	0.12						Coal, rubble				
	0.22				236.79		Coal, broken		236.28		
	0.08	0.88	1.21	73			Sandstone, carbonaceous, medium grain				
	0.07						Siltstone, carbonaceous				
	0.09						Shale, coaly, powdery				
	0.30						Shale, dark grey, stick				
237.13											
	0.44						Shale, dark grey, silty at bottom, stick and broken stick				
Box49											
	0.56	1.00	1.53	65			Siltstone, medium grey, carbonaceous bedding indistinct more or less homogeneous				
238.66											
	0.53	.53	.61	87			Siltstone, as above				
239.27											
	1.55	1.55	1.52	102			Siltstone, as above, stick				
240.79											
	0.84						Siltstone/Shale becoming less silty, more carbonaceous (black) to base				
	0.19	1.49	1.53	97			Shale, coaly black, slicks, grading into underlying, Shale				
	0.46						Shale, silty dark grey, carbonaceous				
242.32											
Box50											
	1.35	1.35	1.52	89			Shale, medium to dark grey, carbonaceous with plant fragments, silty with some very silty bands.				

DIAMOND / CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 110 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
							some soft sediment deformation, few coaly wisps at top				
243.84	1.51	1.51	1.52	99			Shale, as above, no silty bands				
245.36	1.3	1.52	1.83	83			Shale, as above, trace of slicks at top				
Box51	0.22						Shale, as above				
247.19	1.49	1.49	1.53	97			Shale, as above, with calcite filled fracture at top, medium silty and slightly calcareous near top trace coaly wisps in middle				
248.72	0.64	0.64	0.91	70			Shale, medium grey, slightly carbonaceous, silty, 2 slicks at base				
249.63	0.65	0.87	0.61	143			Shale, as above, 3 slicks				
	0.22						Shale, medium grey, very silty, slightly carbonaceous				
250.24	0.28						Shale, as above, with some calcareous filled fractures at top				
	0.57	1.51	1.83	83			Shale, medium to dark grey, carbonaceous slightly at top				
Box52	0.66						Shale, as above				
252.07	0.63	1.58	1.42	104			Shale, as above, 1 slick at top, some calcareous filled fractures at top				
	0.95						Sandstone, very fine grain with two silty shale interbeds (.1m, .2m) sandstone is medium calcareous, abrupt below				
253.59											

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 110 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	1.53	1.53	1.53	100			Shale, medium to dark grey, carbonaceous with trace plant fragments, slightly silty, 1 slick near base				
255.12	0.28						Shale, as above, with calcareous filled fracture at base				
Box 53	0.19						Shale, medium grey, silty, abundant calcite filled fractures, 2 slicks, abrupt below				
	0.45					72	Sandstone, very fine to fine grain, some interbedded shale bands .02 - .04 m thick, disturbed bedding, moderately calcareous, abrupt below				
	0.56	1.48	1.52	98			Shale, medium to dark grey, slightly carbonaceous with trace plant fragments, very silty, transitional below				
	(842')										
		1.52	1.53	99			Shale, with interbedded siltstone and very fine grain, sandstone, light to dark grey, bedded beds, moderately calcareous, pale in upper middle shale is carbonaceous with plant fragments transitional below				
258.17	0.12	1.47	1.52	97			Shale/Siltstone as above				
259.69	1.57	1.57	1.52	103			Sandstone as above with few fine grain sandstone				
261.21	1.45	1.45	1.53			85	Predominantly Shale with numerous siltstone bands .01 - .02 m thick, some bed deformation carbonaceous with trace plant fragments, siltstone bands are slightly calcareous				
262											

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 110 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	1.17						Shale, as above but few siltstone bands, and more carbonaceous with coal wisps at top, Shale is slightly silty				
Box55											
	0.34	1.51	1.52	99			Shale, as above, with more silty laminations at base				
264.26											
	1.54	1.54	1.53	101			Predominantly Shale but with interbedded siltstone and very fine grain sandstone, medium to dark grey disturbed beds, sandstone is slightly calcareous transitional below				
265.79											
	0.10						Shale, as above				
	1.05						Interbedded Silty shale and very fien grain sandstone .05-.06 m thick, laminated, sandstone is slightly calcareous, 1 slick at top with calcite on face, calcite filled fractures in bottom half, shale is carbonaceous, abrupt below				
	0.28	1.43	1.52	94		76	Sandstone fine to very fine grain light and dark grey bedding moderatly defined with some disturbance at top, moderatly calcareous, one minor calcite filled fracture at top				
267.31											
	0.73					80	Sandstone, as above with calcite filled fracture running total length, abrupt below				
	0.27						Shale, silty, with few siltstone bands, bedding disturbed, carbonaceous with plant fragments				
Box56											
	0.52	1.52	1.52	100			Shale, as above with 2 minor calcite filled fractures near base.				
268.83											

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 110 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.51						Shale, as above, abrupt below				
	1.03	1.54	1.53	101		77	Sandstone, fine grain salt and pepper, light and dark grey, slightly carbonaceous with trace plant fragments at base, slightly calcareous with calcareous fracture at top, quartz filling in middle, bedding faintly visible, some cross-bedding				
270.36											
	1.52	1.52	1.52	100		73	Sandstone, as above, becoming fine to medium grain not calcareous few minor calcite filled fractures throughout, ripple beds				
271.88											
	0.36					75	Sandstone, as above				
Box 57											
	1.15	1.51	1.53	99		82	Sandstone, as above, bedding becoming more visible				
273.41											
	1.39	1.39	1.52	91		78	Sandstone, as above				
274.93											
	1.58	1.58	1.53	104		77	Sandstone, as above, trace coaly wisps at base				
Box 58											
276.45											
	0.08						Sandstone, fine grained, carbonaceous with shaley fragments, abrupt below				
	0.50	0.71	0.92	77			Shale, carbonaceous, slicked, broken core				
	0.03						Coal, dull, sheared				
	0.10						Shale, coaly, broken				
277.37											
	0.02					277.53	Coal, bright, stick	277.17			
	0.01						Shale, carbonaceous, stick				
	0.05	0.29	0.61	48			Coal, dull, stick				
	0.13						Coal, dull, sheared				
	0.03						Shale, carbonaceous, stick				
	0.05						Coal, dull with bright, broken	171			

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 110 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
277.98											
	0.04						Shale, carbonaceous, sheared				
	0.04						Coal, dull, stick				
	0.03						Shale, carbonaceous, stick				
	0.03	0.88	0.61	1.44			Shale, carbonaceous, with interbedded coal, stick				
	0.23						Coal, dull, sheared, broken stick				
	0.03						Shale, carbonaceous, stick				
	0.05						Coal, dull and bright, broken stick				
	0.40						Coal, dull with bright, sheared in part, broken				
	0.03						Shale, carbonaceous, stick				
278.59											
	0.04						Shale, carbonaceous, stick				
	0.10						Coal, dull, sheared, broken stick				
	0.02						Shale, carbonaceous, stick				
	0.14						Coal, dull with bright, stick				
	0.12						Coal, dull powder				
	0.10						Coal, dull, stick				
	0.04						Coal, bright broken stick				
	0.11						Coal, dull broken				
	0.17	1.38	1.52	91			Coal, dull, shaley, sheared				
	0.16						Coal, dull with bright broken stick				
	0.12						Coal, dull, broken	171			
	0.26						Coal, dull, sheared broken to powdery				
280.11											
	0.07						Coal, bright stick				
	0.04	0.43	0.92	47	280.78		Coal, dull, slicked broken stick				
	0.06						Shale, carbonaceous, stick				
Box59											
	0.26						Shale, carbonaceous slicked in part				
281.08											

DIAMOND Γ CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 110 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	1.52	1.52	1.52	100			Shale, dark grey to black, carbonaceous with trace plant fragments, slightly silty, slicks throughout fairly homogenous				
282.55											
	1.10	1.10	1.22	90			Shale, as above, without slicks				
283.77											
	0.20						Shale, as above with .01 coal stringer in middle slick at base				
	0.35					284.30	Coal, dull with bright, broken stick	284.02			
	0.05						Coal, dull, powdery				
	0.12						Coal, dull with bright, stick	181			
	0.03						Coal, dull, powdery				
	0.06						Shale, black, coaly				
	0.15	0.96	1.22	79			Coal, dull with bright, broken stick				
284.99								284.99			
Box60											
	0.11					285.7	Shale, dark grey to black, carbonaceous with carbonaceous plant fragments, broken stick				
	0.24						Shale, dark grey to black, carbonaceous with numerous carbonaceous plant fragments, coaly in part, slick at base				
	0.05						Coal, dull with bright, broken to powdery				
	0.91	1.31	1.52	86			Shale, dark grey to black, carbonaceous with plant fragments, slicked throughout, coal wisps at base				
286.51											
	1.49	1.49	1.83	81			Shale, as above, with a .05 coaly split in middle, coal wisps are near top.				
288.34											
	1.30						Shale, medium to dark grey, carbonaceous with carbonaceous plant fragments, some very silty interbeds showing disturbed bedding .01 m thick silty bands are slightly calcareous while Shale				

DIAMOND 1 CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 110 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
							becomes silty and moderately calcareous at base				
Box61	0.25	1.55	1.83	85			Shale, as above, becoming less silty more carbonaceous to base				
290.17	1.49	1.49	1.52	98			Shale, medium grey, few silty interbeds, slightly carbonaceous with trace plant fragments silty beds disturbed, and are calcareous				
291.69	1.11						Shale, as above, becoming siltier towards base abrupt below				
	0.39	1.50	1.53	98			Siltstone, dark grey, carbonaceous with plant fragments, calcareous, some shaley laminae and disturbed bedding,				
293.22	0.99						Siltstone as above				
Box62	0.52	1.51	1.52	99		85	Interbedded silty shale and siltstone, .005 - .02m thick, carbonaceous with trace plant fragments, moderately calcareous with calcite filled fracture running from base to upper middle, some ripple bedding, some deformed beds.				
294.74	1.41	1.41	1.53	92		81	Shale, siltstone, as above, more shaley				
296.27	1.27					81	Shale, siltstone, as above, becoming very calcareous at base				
	0.33	1.60	1.52	105			Shale, medium to dark grey, silty with few siltstone interbeds .01 m thick, carbonaceous with plant fragments, very calcareous some sediment deformation				
297.79											

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 110 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.74						Shale, as above not as calcareous (moderately calcareous)				
Box63											
	0.30						Shale, as above, abrupt below				
	0.49	1.53	1.52	101			Predominantly siltstone with some interbedded Shale bands .005-.01 m thick, ripple bedded, cross-beds, very calcareous, slightly carbonaceous with trace plant fragments, transitional below				
299.31											
	1.58	1.58	1.53	103		79	Siltstone, as above, becoming shaly in middle, some sediment deformation in lower half, minor calcite filled fracture at base				
300.84											
	0.75						Siltstone, as above, abrupt below				
	0.33						Shale, dark grey to black, carbonaceous with abundant plant fragments, abrupt below				
	0.31	1.39	1.52	91		86	Interbedded shale, siltstone, dark grey to black, very carbonaceous, ripple beds, cross-beds, one worm bough in middle, very calcareous transitional below				
302.36											
	0.31						Shale, siltstone, as above, abrupt below				
	0.95	1.56	1.53	102			Shale, dark grey to black, carbonaceous with carbonaceous plant fragments, silty with trace siltstone lamina showing some deformation, moderately calcareous in upper 2/3 becoming slightly calcareous at base abrupt below				
	0.30						Shale, dark grey, carbonaceous with trace plant fragments, slightly silty, homogenous, transitional below				
303.89											

DIAMOND [] CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 110 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.64	0.94	1.22	77		85	Shale, dark grey, silty in part, abrupt below, becoming carbonaceous below				100%
	0.18				305.54		Coal, dull, sheared - broken stick SEAM 10B	304.72			0
	0.12						Shale, dark grey, silty in part, abrupt below	172			0
305.11											
	0.04						Shale, red-brown, conchoidal fracture, broken		305.76		0
	0.03						Coal, dull, broken stick				↓
	0.02						Coal, bright, stick				↓
	0.16						Coal, dull, broken stick, slicks				↓
	0.23	1.25	1.52	82			Coal, dull, sheared, broken				↓
	0.02						Coal, bright, broken				↓
	0.23						Coal, dull, sheared - broken				↓
	0.36						Coal, dull with bright, broken stick				↓
	0.16						Coal, dull, broken stick	173			↓
306.68											
	0.20						Coal, dull, broken stick				0
	0.10	0.79	1.22	65			Coal, dull and bright, broken stick				↓
	0.17						Coal, dull, broken stick				↓
	0.32						Coal, dull, sheared broken				↓
307.85											
	0.07				308.88		Coal, sheared				0
	0.13						Shale, carbonaceous, stick	307.93			0
	0.34	1.41	1.52	93			Shale, silty, stick				100%
	0.87					80	Shale, with silty sandy zones, poorly bedded with disturbance, stick				100%
309.37											
	1.35	1.35	1.61	84			Shale, with interbedded siltstones, carbonaceous with plant fragments, silty, poorly bedded with some disturbed beds,				
310.98											
	0.76	0.76	0.83	92			Shale, as above, slightly calcareous at base				
311.81											

DIAMOND Γ CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 110 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
Box66	0.76	0.76	0.92	83			Shale, as above becoming more silty and calcareous toward base				
312.73	0.02						Shale, as above, abrupt below				
	0.99					83	Interbedded siltstone and silty shale in .03-.05 m thick units, disturbed beds, carbonaceous with plant fragments, siltstone very calcareous while shale is moderately calcareous, coarsening downward abrupt below				
	0.48	1.49	1.52	98			Shale, medium to dark grey, carbonaceous with carbonaceous plant fragments slightly silty, homogenous, transitional below				
314.25	1.39	1.39	1.52	91			Shale, as above				
315.77	0.46						Shale, dark grey silty, homogenous, abrupt below				
	0.11					316.40	Coal, dull, stick SEAM 10A	174			100
	0.23	1.23	1.22	101			Coal, dull with bright, stick	174			0
Box67	0.13						Shale, carbonaceous, broken stick		316.69		
	0.20						Coal, dull with bright, slicks in part				
	0.10						Coal, dull, broken stick				
316.99	0.03						Shale, carbonaceous, stick				
	0.20	0.37	0.61	61			Coal, dull, broken stick				
	0.10						Coal, dull, broken, sheared, with some clay and stringers mixed in				
	0.04						Coal, dull with bright, stick				
317.60	0.15						Coal, dull with bright, broken stick	175			
	0.07						Coal, dull, broken stick				
	0.06	0.58	1.53	38			Coal, dull with bright, stick				

DIAMOND 7 CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 110 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.05						Coal, dull, broken				
	0.25						Coal, dull, broken stick				
319.13											
	0.14						Coal, sheared, broken				
	0.18						Coal, sheared, broken - powdery				
	0.06					319.87	Coal, dull, stick				
	0.20	1.23	1.52	81			Sandstone, medium grained, poorly to not bedding carbonaceous with coaly stringers transitional below	319.60			100%
	0.65						Sandstone, medium grained, no bedding stick, transitiona below				100%
320.65											
Box68	0.70	1.31	1.52	86			Sandstone as above				
	0.61						Sandstone, medium grained, poorly bedded, clean with occasional coarse well rounded pebbles scattered throughout, transitional below				
322.17											
	1.25	1.25	1.22	102			Sandstone, as above				
323.39											
	0.23					80	Sandstone as above				
	0.05	1.53	1.53	100			Sandstone with scattered pebbles				
	1.25						Sandstone as above				
324.92											
	0.74						Sandstone as above becoming carbonaceous with moderatly defined bedding				
	0.09	1.67	1.67	100			Sandstone, as above				
Box69											
	0.84					87	Sandstone medium fine carbonaceous in part moderately defined bedding				
326.59											
	0.74	1.47	1.68	88		82	Sandstone very fine well defined laminar bedding with minor cross-bedding units minor shaley stringers				

DIAMOND D CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 110 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.73						Sandstone, medium grain with minor fine sandstone interbeds, carbonaceous layers define poor bedding				
328.27											
	0.35						Sandstone, as above				
	0.12						Coal, dull, slicks, broken				
	0.07						Shale, carbonaceous slicks broken				
	0.08						Sandstone, medium carbonaceous coaly wisps broken				
	0.05	0.79	0.91	87			Coal, very sheared and broken				
	0.12						Shale, carbonaceous slicked broken stick				
329.18											
	0.53	0.53	0.61	87			Sandstone medium to fine carbonaceous very poorly bedded				
329.79											
	1.50	1.50	1.53	98			Sandstone, medium to fine bedding moderate to poorly defined by carbonaceous layers, shaley interale with occasional coaly wisps, with large scale cross-beds transitional below				
331.32											
	1.50	1.50	1.52	99			Sandstone as above				
332.84											
	0.88						Sandstone, medium grained, with minor coaly wisps, poorly bedded occasional well rounded pebbles (.02 pebble layer .28 from top)				
	0.16	1.18	1.22	97			Coal, dull, broken to powdery				
	0.14						Shale, carbonaceous, coaly wisps slicked, broken stick				
334.06											
	0.10						Shale, as above				
	0.07	1.37	1.52	90			Sandstone medium very carbonaceous with numerous coaly wisps transitional below				
	1.20					85	Sandstone, medium grained poorly bedded abrupt below				
335.58											

DIAMOND / CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 110 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.12						Sandstone as above showing numerous small burrows giving mottled appearance transitional below				
	0.84	1.45	1.53	95			Sandstone, as above becoming increasingly well bedded towards base no burrowing				
	0.15						Sandstone as above, poorly bedded with numerous small burrows transitional below				
	0.34						Sandstone, as above moderately bedded with large scale cross-bedding				
337.1							T.D.				

DIAMOND [] CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 111 SHEET No: 1

DATE BEGUN: _____ DEPTH: _____ BEARING: _____ U.T.M. _____

DATE FINISHED: _____ ELEV. COLLAR: _____ TOTAL DEPTH: _____ COAL LICENSE: _____

LAT.: _____ HOLE ANGLE: _____ LOGGED BY: _____ CORE SIZE: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
Box 1								2.55			
	0.05						Coal, dull, iron stained, broken				BC
2.60											
	0.10						Coal as above	142		S 5	BC
	0.53						Coal, dull and bright, iron stained, broken stick				BC
	0.10	0.73	1.97	37			Coal, dull, powdery		4.57		BC
4.57											
	0.03				5.1		Shale carbonaceous broken stick			S 3	BC
	0.23	0.26	0.92	28			Clay with some coal mixed			S 1	BC
5.49											
	0.75						Siltstone, shaley, red brown staining on joints, broken			R 3	BC
	0.07						Clay			S 1	BC
	0.10	0.92	0.91	101			Shale, silty, poorly bedded, transitional below, broken with iron staining and some slick on joints		73° 0°	x2 60x2 R 3	12
6.40											
	1.25	1.25	3.66	34			Shale as above				
10.06											
	0.12						Shale as above				
	1.48	1.60	1.52	105			Siltstone, shaley, homogeneous throughout, abrupt below stick		50°	6°x2 R 3	3
Box 2											
11.58											
	0.62						Sandstone, fine grained, poorly bedded, homogeneous transitional below			R 3	0
	0.10						Sandstone as above iron stained on joints				BC
	0.73	1.45	1.71	85		60°	Sandstone, fine grained, medium-poor bedding, occasionally disturbed, some zones of red weathered sands to base transitional below joints iron stained		60°	30° R 4	5
13.29											
	0.86	0.86	1.34	64			Sandstone as above		68°	54° 57°	
14.63											
	0.60	0.60	0.91	66			Sandstone as above		15°		

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 111 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.15						Shale as above				
Box 6											
	1.25	1.40	1.52	92			Siltstone shaley with several fine sandstone zones sandstone weathers red brown patchy calcareous, some disturbance joints iron stained		10,35,63,50	R 4	5
29.26									50,50,05	R 4	5
	1.7						Siltstone as above		05,70,25		
	0.22						Siltstone as above, broken core, weathered red brown		5° x 3	R 4	
	1.3	3.22	3.05	106			Siltstone shaley with carbonaceous fragments poorly bedded with minor coarse grained zone showing disturbance transitional below, occasional carbonaceous stringers		60,52,50,05,65	R 3	3
32.31											
Box 7	1.56	1.56	1.52	103			Siltstone as above		64,60,56	R 3	3
33.83											
	0.05						Siltstone as above			R 3	3
						63	Siltstone shaly with fine grain sandstone interbedded carbonaceous with planty fragments some disturbance, patchy calcareous moderate bedding		70 x 2	R 3	3
	0.94	0.99	1.53	65			Shale-silty with numours well preserved planty fragments poorly bedded with silty zones, occasional coal stringers and wisps, iron stained joints transitional below		35,54,70	R 3	8
35.36									64,70,65		
	1.54	1.54	1.52	101			Shale as above		60	R 3	6
36.88											
Box 8	1.55	1.55	1.52	102		60	Shale as above		55, 85	R 3	4
38.40											
	0.20						Shale as above broken core		60, 70	R 3	
	1.3	1.50	1.53	98			Shale as above		05,80,65	R 3	4
39.93											
	0.50						Shale as above		55	R 3	4
	0.10						Coal bright with dull				
	0.10						Shale as above			R 3	4

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 111 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.32						Shale as above broken core		80, 50	R 3	
Box 9	0.20						Shale as above		50, 15	R 3	4
	0.20	1.42	1.52	93			Shale as above broken core		40, 50	R 3	
41.45											
	0.20						Shale as above broken core				
	1.02	1.22	1.53	80			Shale as above		50, 15, 15, 55	R 3	6
42.98											
	0.30						Shale as above broken core, slied			R 3	
	0.85						Shale as above		60x2, 70	R 3	4
	0.50	1.65	2.52	65			Siltstone, shaley, no bedding, mildly carbonaceous, some showing disturbed coaly wisps, occasional coaly/carby stringers, trace slicks on joints which are iron stained, transitional below		35 ⁰	R 3	2
Box 10											
45.5											
	1.50	1.50	0.52	288			Siltstone as above		26x4, 78	R 3	2
46.02									60, 48 x2		
	1.50	1.50	1.53	98		60 ⁰	Siltstone as above		25 x 2	R 3	2
47.55											
	1.34						Siltstone as above		48 ⁰ , 23 ⁰ , 10 ⁰	R 3	2
	0.10						Siltstone as above broken core, iron stained with slicks			R 3	
Box 11	0.05	1.49	1.52	98			Siltstone as above			R 3	2
49.07											
	0.26						Siltstone as above			R 3	2
	0.94					68 ⁰	Siltstone, shaley, with occasional very fine grained sandstone intervals poorly bedded, some cross bedding disturbed, occasionally carby with well preserved planty fragments, transitional below		25, 45, 15	R 3	4
	0.15						Siltstone as above broken core, weathered			R 1	
	0.25	1.60	0.99	162		63 ⁰	Siltstone as above			R 3	4
50.06											
	1.43	1.43	2.06	69			Siltstone as above		80x2, 60 ⁰	R 4	3
52.12											
	1.20						Siltstone as above			R 4	0

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC111 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.35	1.55	1.53	101		65°	Sandstone, very fine grain, carbonaceous defined bedding throughout, moderate bedding, occasional shaley intervals trace disturbance, transitional below			R 4	0
Box 12											
53.65											
	0.20						Sandstone as above			R 4	0
	0.15						Sandstone as above broken core, iron stained on joints		20°, 78°	R 4	
	0.30						Sandstone as above			R 4	0
	0.25						Sandstone as above broken core, iron stained on joints coaly on joints		20° 70°	R 4	
	0.50	1.40	1.52	92			Sandstone as above			R 4	0
55.17											
	0.90					62°	Sandstone as above		62	R 4	4
	0.72	1.62	1.52	107		50	Sandstone very fine grain, very well developed bedding by carbonaceous layers nearly cissile, carbonaceous, transitional below		55° x 18	R 3	18
									ALL BEDDING		
56.69	1.40	1.40	1.53	92			Sandstone, medium-coarse grained, becoming coarser to base, very carbonaceous with numerous coaly stringers wisps poorly bedded as sediments seam disturbed abrupt below		55,60,55 58,58,85 75°	R 3	10
58.22											
	1.43						Sandstone as above joints to be undulating 0.03 coal at 1.0 m		60° 60°	R 3	10
	0.10	1.53	1.52	101			Siltstone, shaley, with fine sandstone interbeds, poorly bedded with some disturbance, pa calcareous, carby in part, transitional below			R 3	1
59.74											
	1.50	1.50	1.52	99			Siltstone as above		10°	R 3	1
61.26											
	1.50	1.50	1.53	98			Siltstone as above		74°	R 3	1
62.79											
	0.90						Siltstone as above		76°	R 3	1

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 111 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.50	1.50				60°	Sandstone, fine grained, well bedded, weathered red brown, calcareous abrupt above and below broken core		15°, 10°	R 2	
	0.16										
	0.15	1.71	1.52	113			Siltstone, shaley, with zones occasional very fine grained sandstone interbeds, patchily calcareous poorly bedded with some cross bedding and showing some disturbance transitional below			R 4	2
64.31											
	1.53	1.53	1.53	100			Siltstone as above		0, 78, 60	R 3	10
65.84									72x2, 74, 10		
	1.52	1.52	1.52	100			Siltstone as above		10°, 30°, 10°	R 3	2
67.36											
	1.53	1.53	1.53	100			Siltstone as above		80° 65°	R 3	2
68.89											
Box16	1.52	1.52	1.52	100			Siltstone as above		70°	R 3	3
70.41											
	3.05	3.05	3.05	100		70°	Siltstone as above		10°, 70°	R 3	1
73.46											
	0.84						Siltstone as above			R 3	0
	0.65	1.49	1.52	98			Shale, silty with very fine sandstone interbeds, sharp boundaries, giving moderate bedding, some disturbance and bioturbation abrupt below, calcareous in part		70° 30°	R 3	3
Box17											
74.98											
	1.50	1.50	1.52	99		70°	Shale as above		75° 70°x2	R 3	4
76.5											
	0.60						Shale as above		30°, 70°, 70°	R 3	4
	0.12					70	Shale, silty, with occasional minor silty partings giving poor bedding, basicly very homogoreous, trace carby material, becoming more carby to base abrupt below			R 2	4
	0.10	0.82	1.10	75			Shale as above, broken core		70 x 2	R 2	
77.6											
	0.10						Shale as above, broken core			R 2	

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 111 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
Box18	1.35	1.45	1.53	95			Shale as above		70, 65, 30	R 2	4
79.13									25		
	1.20						Shale as above		62, 70, 10,	R 2	8
									65, 65, 10		
	0.40	1.60	1.49	107	80.50		Coal, dull, red brown staining on joints broken-powdery			S 4	
80.62											
	0.10						Coal as above			S 4	
	0.10	0.20	0.64	31			Shale very carby, with numerous coaly stringers, slicked below			R 4	
81.26											
	1.32	1.32	1.34	99			Shale, carbonaceous, with well preserved plant fragments transitional below		50, 85, 45	R 3	10
									5		
82.60											
	1.10						Shale, silty, homogenous, transitional below, no bedding		36, 70	R 2	8
Box19	0.23	1.33	1.53	87			Siltstone, shaley, bedding poorly developed, with some cross bedding, abrupt below			R 3	4
84.13											
	0.74						Siltstone as above		20, 40, 64	50	4
	0.85	1.59	1.52	105		60	Shale, silty, carby with plant fragments in part, minor siltstone, zones giving very poor bedding abrupt below		60, 45	R 3	4
85.65											
	0.54						Shale as above		85, 80	R 3	2
	0.30						Siltstone, homogenous no bedding defined, abrupt below			R 4	0
	0.60	1.44	1.52	95			Shale, silty, very homogenous with occasional minor silty layers defining bedding iron stained on joints transitional below		50, 70	R 3	3
87.17											
	0.64						Shale as above		50, 80	R 3	3
	0.40						Shale as above broken core		50	R 3	
Box20	0.20						Shale as above			R 3	4

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 111 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
88.7	0.30	1.54	1.53	101			Shale as above broken core		10° 80°	R 3	
89.92	1.30	1.30	1.22	107			Shale as above		50° 80°	R 3	3
91.44	1.50	1.50	1.52	99			Shale as above		70° 75° 10°	R 3	3
Box21 92.96	1.50	1.50	1.52	99			Shale as above		5° x 2 70°	R 3	3
94.49	1.50	1.50	1.53	98			Shale as above		10° 6° 65°	R 3	3
Box22 96.32	1.50	1.50	1.83	82		60°	Shale as above		72° x 2	R 3	3
	1.42					70°	Shale, silty, with occasional siltstone layers, giving moderate bedding, carby in part with some plant fragments, joints iron stained, contact with coal shows minor faulting		70° x 3	R 3	3
97.84	0.15	1.57	1.52	103		97.34 97.94	Coal dull with bright, broken SEAM #8	97.69			
	0.05						Shale, carby, broken stick				
	0.06						Coal, dull with bright, broken stick				
	0.10						Shale, carby with coaly stringers, broken stick, iron stained on joints with some slicks	146			
	0.35						Coal dull some shearing, brokne, some pyrite discs on cleat				
	0.10						Coal, dull with bright, broken stick				
	0.02	1.34	1.53	88			Coal, bright broken stick				
	0.07						Coal, dull, broken stick				
	0.03						Coal, dull with bright, broken stick				
	0.05						Coal, dull, broken stick	97.72			
	0.03						Shale, carby, broken stick				
	0.03						Coal, dull, and bright stick				
	0.01						Shale, carby, stick				

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 111 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.14						Coal, dull, stick				
	0.18						Coal, dull with bright, stick				
	0.12						Coal, dull, stick	147			
99.37											
	0.02						Coal, dull, broken				
	0.03						Shale, carby, stick				
	0.09						Coal, dull with bright stick				
	0.02						Coal, dull, stick				
	0.07						Coal, dull with bright, stick, trace pyrite discs				
	0.12	1.47	1.52	97			Coal, bright and dull, stick				
	0.18						Coal, dull with bright, broken stick				
	0.04						Coal, bright with dull, stick				
	0.18						Coal, dull with bright, stick				
	0.06						Coal, bright, stick				
	0.20						Coal, dull stick				
	0.10						Coal, dull and bright stick				
	0.14						Coal, dull, stick				
	0.22						Coal, dull with bright, stick				
100.89											
	0.04						Coal, dull, stick				
	0.13						Coal, bright with dull, stick				
	0.04						Coal, dull, stick				
	0.10						Coal, bright with dull, stick				
	0.18	1.48	1.53	97			Coal, dull with bright, stick				
	0.04						Coal, dull, stick				
	0.03						Coal, bright, stick				
	0.06						Coal, dull, stick				
	0.02						Coal, bright, stick				
	0.06						Coal, dull with bright stick				
	0.06						Coal, bright, stick	147			
	0.23						Coal, dull, stick				
	0.15						Coal dull and bright, stick				

DIAMOND F CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 111 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.01						Shale, carby, stick				
	0.22						Coal, dull with bright, stick				
	0.09						Coal, dull, stick				
	0.02						Coal, dull and bright, stick				
102.42											
	0.26	0.83	0.91	91			Coal, dull, broken stick				
	0.35						Coal sheared, broken, trace pyrite discs				
	0.22						Shale, carbonaceous and coaly, slicked, broken stick				
103.33											
	0.44						Shale, carbonaceous, with coaly stringers, sheared in part				
	0.03						Coal, sheared, broken				
	0.08						Coal, bright with dull, stick				
	0.14						Coal, dull, broken stick				
	0.03						Coal, bright, broken				
	0.02						Coal, dull, broken				
	0.01						Shale, carby, stick				
	0.12	1.44	1.52	95			Coal, dull, broken stick (charcoaly-fusain?)				
	0.21						Coal, dull, with bright broken stick				
	0.12						Coal, dull, broken stick				
	0.24						Coal, dull, sheared in part, broken				
104.85											
	0.33						Coal, dull with bright, sheared, broken				
	0.03						Coal, dull, charcoaly broken stick				
	0.30						Coal, dull, broken stick				
	0.02	1.52	1.56	97			Shale, carby, stick				
	0.12						Coal, dull with bright, broken stick				
	0.09						Coal, dull, broken stick				
	0.11						Coal, dull and bright broken stick				
	0.28						Coal, dull, broken				
	0.04						Coal, bright, broken, stick				
	0.20						Coal, dull, stick				

DIAMOND F CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 111 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
106.41											
	0.08						Coal, dull stick				
	0.16						Coal, dull and bright, broken stick				
	0.33						Coal, dull with bright broken stick				
	0.27						Coal, dull, broken stick				
	0.08	1.46	1.57	93			Coal, dull with bright, broken stick				
	0.24						Coal, dull, broken stick				
	0.07						Coal, dull and bright, broken stick				
	0.12						Coal, dull, broken stick				
	0.11						Coal, dull with bright broken stick				
107.98											
	0.12						Coal, dull with bright, broken stick				
	0.10						Coal, dull, broken				
	0.17	1.16	1.50	77			Coal, sheared, broken				
	0.01						Shale, carby, broken				
	0.19						Coal, sheared, broken				
	0.12						Coal, powdery				
	0.07						Coal, sheared, broken-powdery				
	0.16						Coal, powdery				
	0.22						Coal, dull sheared, broken				
109.48											
	0.20						Coal, dull, broken				
	0.06						Coal, dull with bright, broken stick				
	0.05						Coal, dull, broken stick				
	0.04	1.40	1.53	92			Coal, dull with bright, broken stick				
	0.18						Coal, dull, broken stick				
	0.03						Coal, dull with bright, broken stick				
	0.15						Coal, dull, broken	150			
	0.04						Coal, dull with bright, broken stick				
	0.10						Coal, dull, broken stick'				
	0.16						Coal, dull, broken, pellitic texture				
	0.11						Coal, dull with bright, broken				

DIAMOND F CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 111 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.	
	1.10						Shale, as above with abundant soft sediment deformation occurring at top and smaller scale deformation throughout abrupt below				}	
	0.23						Sandstone very fine grain interbedded with silty shale, poorly bedded, cross-bedded slightly carbonaceous abrupt below			R 4		0
	0.30	1.63	1.53	107			Shale, silty, carbonaceous with trace carbonaceous plant fragments, trace irregular bedding			R 3		
120.4	1.03						Shale, medium to dark grey, carbonaceous with carbonaceous plant fragments, silty with siltstone interbeds, ripple bedded crossbedded, trace coaly wisps abrupt below				}	
	0.42						Sandstone very fine to fine grain medium to dark grey, carbonaceous with carbonaceous plant fragments, ripple beds, cross-beds			R 5		0
Box 28	0.07	1.52	1.52	100			Sandstone as above with some very carbonaceous shale at base					
121.92	0.13						Sandstone, as above abrupt below					
	1.04						Shale medium to dark grey, carbonaceous with carbonaceous plant fragments, silty with few very silty lamina, showing some iron staining on fracture abrupt below		4°	R 3	}	
	0.34	1.51	1.52	99			Sandstone salt and pepper, light and dark grey, irregular bedding, cross-bedding, some iron staining on fracture abrupt below			R 5		1
123.44	0.38					74	Shale, with some very silty lamina, ripple bed and cross-bedding trace slicks, iron stains on joints abrupt below		74, 34	R 3	}	
	0.45					77	Sandstone very fine grain with some silty carbonaceous shale laminations, some soft sediment deformation, cross-bedding, iron stains, on joints, abrupt below		61° 73° 70°	R 4		4

DIAMOND 1 CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 111 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.30						Shale, dark grey to black, silty, carbonaceous, with trace plant fragments, trace slick, iron stain on joints abrupt below		71		
	0.38	1.51	1.53	99			Sandstone, fine grain, salt and pepper, light and dark grey, bedding moderate to poor with some ripple beds and cross-bedding slightly carbonaceous with trace plant fragments			R 4	
124.97											
	0.06						Sandstone as above				
	0.96						Shale, dark grey with some sandstone lamina, at top and at base, fairly homogenous through middle carbonaceous with carbonaceous plant fragments, silty, iron stain on joint, 1 slick at top and 1 at base, .07 sandstone unit near top		76° 73°	R 3	2
Box 29											
	0.50	1.52	1.52	100			Shale as above				
126.49											
	1.52	1.52	1.53	99			Shale with interbedded silty and sandy layers, some ripple and cross-beds, carbonaceous with trace plant fragments, iron stains on joints and fractures, broken stick near base, slightly calcareous toward base with some minor calcite filled fractures		58, 3, 16	R 3	6
128.02											
	0.11						Shale as above abrupt below		72		
	1.42	1.53	1.67	92		74	Sandstone fine to medium grain, few silty interbeds, slightly carbonaceous with trace plant fragments, salt and pepper, moderately calcareous some ripple and cross-bedded near top, bedding moderate to 600 iron stain on joints		67	R 5	2
129.69											
	0.54					74	Sandstone as above medium grain, few carbonaceous wisps at top		10		4
Box 30											
	1.00	1.54	1.62	95		66	Sandstone as above with a .18 carbonaceous shale unit at base		73, 81, 87		

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 111 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	1.49	1.49	1.53	97			Sandstone, as above with a .10 broken zone near base no coaly wisps		24,0,3	R 5	4
142.04											
	0.91					78	Sandstone as above, but bedding is faintly visible		20, 11	R 5	} 3
Box33											
	0.59	1.50	1.52	99			Sandstone, as above, becoming massive at base		10		
143.56											} 2
	0.75						Sandstone as above, carbonaceous wisps at base, massive				
	0.76	1.51	1.52	99			Sandstone as above with numerous coaly wisps throughout		78		} 2
145.08											
	0.67					55	Sandstone as above coaly wisps at top, abrupt below, bedding faintly visible, coarse grain at base		52, 56		} 4
	0.81	1.48	1.53	97		54	Sandstone fine to very fine grain, salt and pepper, light and dark grey, bedding poorly developed, some ripple bed, some cross-bedding, slightly calcareous			R 4	
							0.11 silty, carbonaceous shale at top		2/53		
146.61											
	0.63					54	Sandstone as above		68	R 4	
Box34											
	0.83	1.46	1.52	96		60	Sandstone fine grain to very fine grain, ripple laminated light and medium grey, iron stain on joints .06 brown weathered zone in middle is very calcareous, unweathered zone is moderately calcareous, shaly at base		3/60 1/16	R 5	
148.13											
	0.38						Shale, silty, medium to dark grey, carbonaceous in lower half, plant fragments weathered throughout to brown, weathered areas very calcareous				
	1.0	1.38	1.53	90			Sandstone light grey, fine grain with mottled to irregular medium grey shale bedding, some plant debris in shale, shale grades to siltstone, in places.			R 5	

Sandstone is slightly calcareous

DIAMOND / CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 111 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.34						Shale as above, not sandy but slightly silty, very carbonaceous				0
	0.61						Shale, dark grey, carbonaceous, carbonaceous plant debris abundant coaly stringers, coaly at base, trace of slicks where broken with hammer			R 3	
	0.46				158.25		Coal - dull, stick, trace of slicks SEAM #9	158.31		R 1	
	0.05						Shale dark grey, carbonaceous, carbonaceous plant debris			R 3	
	0.53						Coal - dull with bright, stick			R 1	
	0.14						Coal - powdered				
	0.1	2.23	2.45	91			Coal - dull with bright, broken stick			R 1	
159.72					159.69					R 1	
	0.12				159.72		Shale black, carbonaceous, slicked, pyrite stain discs on slicks	159.72		R 3	
	0.07				159.93		Clay - black, very carbonaceous, very soft			R 1	51
	0.31				159.99		Coal - dull with bright, stick	159.99			
Box37											
	0.17						Coal - dull with bright stick	152			
	0.01						Shale - dark grey, carbonaceous				
	0.22						Coal - dull with bright stick				
	0.10						Coal - bright and dull, stick				
	0.16						Coal - dull with bright stick				
	0.12						Coal - powdered				
	0.12	1.40	1.52	92			Coal - dull				
161.24											
	0.10						Coal - dull, stick				
	0.13						Coal - powdered				
	0.32						Coal - dull, stick				
	0.67						Coal - dull with bright stick				
	0.05						Coal - dull with 2 thin shale bands				
	0.12	1.39	1.52	91			Coal - dull with bright, stick			R 1	
162.76											
	0.19						Coal - dull with bright stick				

DIAMOND 1 CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 111 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	1.49	1.49	1.49	100		45	Shale as above with a few light grey siltstone beds .01, some plant fossils (ferns)			R 3	0
172.52											
	0.92					57	Shale/Siltstone interbedded dark grey, silty, carbonaceous shale and light grey siltstone, trace carbonaceous plant debris, calcareous, 1 slick along bedding joint			R 4	1
Box40											
	0.16						Siltstone/Shale as above			R 5	
	0.45	1.53	1.52	101		50	Sandstone light grey, very fine grain to fine grain abundant wispy carbonaceous beds calcareous			R 5	
174.04											
	1.42	1.49	1.52	98			Sandstone as above but becoming very fine grain with a few traces carbonaceous plant debris		1/55 1/0	R 5	3
	0.07					68	Siltstone dark grey, carbonaceous, abundant carbonaceous plant debris			R 5	
175.56											
	0.02						Siltstone as above		1/7, 1/39		3
	1.06						Sandstone salt and pepper, medium grain at top grading to medium to coarse grain below, abundant coaly wisps, massive, calcareous			R 5	
	0.21						Shale, dark grey, carbonaceous silty			R 3	
	0.10	1.39	1.53	91			Sandstone, very fine grain, medium to dark grey, carbonaceous, iron stain of fracture			R 4	
177.09											
	0.38						Shale dark grey, carbonaceous, plant debris, slightly silty		1/21	R 3	1
Box41											
	0.89	1.46	1.52	96		178.52	Shale as above	178.4	1/8		
	0.19						Coal - dull, broken to powder SEAM #10B				
178.6											
	0.14						Coal - dull broken				

DIAMOND P CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 111 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	1.49	1.49	1.52	98		70	Shale dark grey, carbonaceous, massive, slightly silty at base			R 3	1
189.28											
	0.47				190.06		Shale very dark grey, carbonaceous	89.87		R 3	
	0.44	1.22	1.52	80	190.66		Coal - dull with bright, stick, some slicks SEAM #10				
	0.31						Coal - broken to powder, dull				
190.80											
	0.33	1.33	1.53	87			Coal - dull with bright broken stick				
Box 44								156			
	1.00						Coal - dull with bright broken stick, .01 shale band at top				
192.33											
	0.09						Coal - broken dull, slicked				
	0.17	1.42	1.52	93	192.80		Coal - dull with bright, broken stick				
	1.16				192.80		Sandstone salt and pepper medium grained, massive	192.60		R 5	0
193.85											
	1.46	1.53		95		65	Sandstone as above with faint bedding traces			R 5	0
195.38											
	0.38	1.54	1.52	101			Sandstone as above			R 5	0
Box 45											
	1.16						Sandstone as above with few scattered chert pebbles with trace carbonaceous blebs			R 5	0
196.9											
	1.51	1.51	1.52	99		50-60	Sandstone as above with 2 pebble bands (.04) at middle, 2 approximately .03 near top			R 5	0
198.42											
	0.49					65	Sandstone as above with thin dark grey carbonaceous beds .04 pebble conglomerate in middle			R 5	0
	0.85					55	Sandstone salt and pepper, light grey matrix, pyrite stain on joint (@ 19) broken by hammer, one slick @ 55 (@ 55) bedding poorly defined, medium-coarse grain	1/55		R 5	1

DIAMOND 1 CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 111 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.19	1.53	1.53	100			Sandstone salt and pepper, medium grey matrix, medium grain			R 5	0
199.95											
	0.13						Sandstone as above			R 5	0
Box46											
	1.4	1.53	1.52	101		68	Sandstone as above with some thin wispy carbonaceous beds, trace carbonaceous plant debris in middle			R 5	1
201.47											
	0.74	1.69	1.53	110			Sandstone as above			R 5	0
	0.95						Sandstone as above becoming medium to coarse grain			R 5	0
203.0											
	0.11						Coal - dull broken stick			R 1	
	0.04						Shale very dark grey, carbonaceous coal wisps, slicked			R 3	
	0.1	1.50	1.52	99			Shale dark grey, carbonaceous, abundant plant debris			R 3	
	1.25						Sandstone salt and pepper, medium grain, medium grey matrix, irregular carbonaceous wisps at base	1/11		R 5	1
Box47											
204.52	(671)										
	1.54	1.54	1.52	101			Sandstone as above few coaly wisps throughout with few chert pebbles			R 5	0
206.04											
	1.52	1.52	1.53	99		65	Sandstone as above, with .005 Calcite filled fracture			R 5	1
207.57											
	0.38						Sandstone as above			R 5	
	0.24						Shale, very dark grey very carbonaceous, slicks brokne sticks, few coal wisps			R 3	
	0.07	1.46	1.52	96			Coal - dull with bright broken to powdered			R 1	
	0.16						Shale very dark grey very carbonaceous, few coal wisps			R 3	
	0.03						Sandstone medium grian, carbonaceous, light to very dark grey				
	0.31						Sandstone salt and pepper, trace carbonaceous material 1 slick, massive	2/55			1

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 111 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
Box48	0.27						Sandstone medium grain, salt and pepper, medium grey matrix				
209.09	1.52	1.52	1.53	99			Sandstone as above				
210.62	0.87						Sandstone as above becoming medium to coarse grained			R 5	
	0.23	1.52	1.52	100			Sandstone as above with abundant wispy carbonaceous filled fractures			R 5	
	0.42					56-65	Sandstone medium to coarse grain, salt and pepper medium to dark grey bedding			R 5	
212.14	0.94						Sandstone as above some cross-bedding			R 5	
Box49	0.54	1.48	1.52	97			Sandstone as above			R 5	
213.66 (701')	1.52	1.52	1.53	99			Sandstone as above			R 5	
215.19	1.57	1.57	1.52	103		65	Sandstone as above			R 5	
216.71	0.72					65	Sandstone as above			R 5	
Box50	0.53	1.36	1.53	89			Sandstone as above bedding very poorly defined small chert pebbles throughout				
	0.11						Shale very dark grey, carbonaceous, slightly silty one slick			R 3	
218.24 716'							END OF HOLE				

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC-112 SHEET No: 1
 DATE BEGUN: 78/8/11 DEPTH: _____ BEARING: _____ U.T.M. _____
 DATE FINISHED: _____ ELEV. COLLAR: _____ TOTAL DEPTH: _____ COAL LICENSE: _____
 LAT.: _____ HOLE ANGLE: _____ LOGGED BY: B. Noland CORE SIZE: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
Box 1	.83					69-72	Siltstone-shale, interlaminated, medium to dark grey carbonaceous, calcareous, two coal stringers near base, calcite filled fractures				
10.06	1.39	1.39	1.52	91			Siltstone-shale-as above but more carbonaceous, dark grey				
11.58	.98	.98	1.22	80			Siltstone-shale, as above, becoming less carbonaceous medium grey, broken stick				
12.80	.90						Siltstone-shale, as above calcite filled fractures and iron oxide stain on joints				
Box 2	.57	1.55	1.53	101			Shale-siltstone, as above becoming more carbonaceous and shaly at base				
	.08						Shale-carbonaceous to coaly, powdered, not calcareous				
14.33	1.11	1.32	1.52	87			Siltstone-shale, as above, calcareous				
	.21						Shale-black, clay rich, abundant coal stringers, non calcareous				
15.85	.27	1.50	1.52	99			Shale-as above becoming silty near base				
	1.23						Siltstone-shale as above, calcareous				
17.37	.78					70°	Siltstone-shale, as above, broken stick				
Box 3	0.56	1.34	1.53	88			Shale-silty with minor siltstone interbeds, stick				
18.9	0.70						Shale-as above, stick				
	0.14	.84	.91	92			Shale-carbonaceous, coal wisps and lenses, slick-n-sides, broken				

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC-112 SHEET No: 2

DATE BEGUN: _____ DEPTH: _____ BEARING: _____ U.T.M. _____

DATE FINISHED: _____ ELEV. COLLAR: _____ TOTAL DEPTH: _____ COAL LICENSE: _____

LAT.: _____ HOLE ANGLE: _____ LOGGED BY: B. Noland CORE SIZE: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
19.81	0.45	.45	.62	73			Shale-carbonaceous, coaly wisps and lenses, slick-n-sides, calcity filled fractures, broken stick and broken				
20.43	.20	.39	.60	65			Coal-dull broken				
	.19						Coal-bright with dull broken				
21.03	.41						Shale-black, coaly with coal stringers, slick-n-sides				
		.68	.92	74			broken				
	.27						Shale-carbonaceous, black with coal wisps and stringers				
21.95	.44					68-72	Shale-as above with medium grey siltstone laminae, stick				
	.12	1.61	1.52	106			Shale-as above with abundant coal stringers, broken				
	.39						Shale-as above, stick				
Box 4	.66						Shale-dark grey to black, slightly silty, carbonaceous abundant coal wisps and stringers				
23.47	1.53	1.53	1.52	101			Shale-siltstone, medium grey, interlaminated, dark grey carbonaceous shale and medium grey siltstone (calcareous) calcite filled fractures, iron oxide stain on fractures				
24.99	.83						Shale-siltstone, as above, with 2 coal stringers, grading into underlying unit				
	.71	1.54	1.53	101			Siltstone-shale, medium grey calcareous silt to very fine grain sand and dark grey carbonaceous shale disturbed bedding				
26.52											

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC-112 SHEET No: 3

DATE BEGUN: _____ DEPTH: _____ BEARING: _____ U.T.M. _____

DATE FINISHED: _____ ELEV. COLLAR: _____ TOTAL DEPTH: _____ COAL LICENSE: _____

LAT.: _____ HOLE ANGLE: _____ LOGGED BY: B. Noland CORE SIZE: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	.49						Siltstone-shale, as above				
Box 5		1.48	1.57	94							
	.99						Siltstone-shale, as above with one .01 m calcite vein near top				
28.09											
	.36						Siltstone-shale, as above				
	1.12	1.48	1.48	100			Shale-siltstone, as above inter laminated, shale is dominant				
29.57											
	1.51	1.51	1.52	99			Shale-siltstone, as above, broken near base				
31.09											
	.12						Shale-siltstone, as above				
Box 6		1.56	1.52	103							
	1.44						Shale-dark grey, carbonaceous, silty with one disturbed siltstone band near base				
32.61											
	1.41	1.41	1.53	92			Shale-as above, grading in to siltstone near base iron oxide stain on fractures and quartz vein and calcite filled fracture				
34.14											
	1.06						Siltstone-medium grey, calcareous with many chalcidong and calcite filled fractures with similar orientation with one .02 band of breccia of country rock in a vuggy matrix of quartz crystals (many terminated on both ends) and calcite (MINOR FAULT)				
	.02						Breccia-quartz and calcite matrix as above slick-n-sides (MINOR FAULT)				
	.39						Shale-siltstone, dark grey, carbonaceous with siltstone wisps that are calcareous, sharp change in litholog with overlying siltstone				

DIAMOND CORE LOG

(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC-112 SHEET No: 4

DATE BEGUN: _____ DEPTH: _____ BEARING: _____ U.T.M. _____

DATE FINISHED: _____ ELEV. COLLAR: _____ TOTAL DEPTH: _____ COAL LICENSE: _____

LAT.: _____ HOLE ANGLE: _____ LOGGED BY: B. Noland CORE SIZE: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
Box 7											
	.07	1.54	1.52	101			Shale-siltstone, as above				
35.66											
	1.55	1.55	1.53	101			Shale-silty, dark grey, carbonaceous, mainly homogeneous with occasional siltstone wisps, broken at base.				
37.19											
	0.71	1.50	1.52	99			Shale-as above				
	.79						Shale-slightly silty, black, carbonaceous plant debris and coal wisps throughout				
38.71											
	.97					68-73	Shale-siltstone, interlaminated, dark grey, carbonaceous shale and medium grey calcareous silt to very fine grain sand				
Box 8											
	.46	1.43	1.52	94			Shale-siltstone, as above with one .10 siltstone very fine grain sandstone band near top with disturbed ripple cross bedding, thinly laminated and carbonaceous near base				
40.23											
	1.42	1.42	1.53	93			Shale-siltstone, as above, broken and very carbonaceous near top				
41.76											

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC-112 SHEET No: 5

DATE BEGUN: _____ DEPTH: _____ BEARING: _____ U.T.M. _____

DATE FINISHED: _____ ELEV. COLLAR: _____ TOTAL DEPTH: _____ COAL LICENSE: _____

LAT.: _____ HOLE ANGLE: _____ LOGGED BY: T. Hannah CORE SIZE: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
Box 8											
41.76											
	0.13					74°	Shale-dark grey, minor sandstone, lenses near top				
	0.05						Shale-as above; rubble and dull shaley coal	41.96			
	0.30						Coal-dull, shaley, pyrite, broken to rubble	157			
		.98	1.52	64			Coal-powder and rubble, sampled by Goldetz				
	0.20						Coal-dull with bright bands, broken stick				
	0.25						Coal-as above, broken, carbonaceous shale in middle (0.01)				
	0.05						Coal-powder				
43.28											
	0.05						Coal-dull with bright bands				
	0.40	1.20	1.53	78			Coal-rubble, shale band in middle (0.01)				
	0.54						Coal-dull, broken				
Box 9											
	0.21						Coal-rubble				
44.81											
	0.40						Coal-powder	158			
	0.50	.90	1.21	74			Coal-broken, dull with bright bands				
46.02											
	0.71	.71	.92	77			Coal-dull with bright bands, broken stick				
46.94											
	0.15						Coal-broken, rubble				
	0.37	.81	.91	89			Coal-dull				
	0.29						Coal-dull with bright bands				
47.85											
	0.08						Shale-carbonaceous, grey to brown				
	0.36	.44	.92	48			Coal-dull				
48.77											
	0.44						Shale-dark grey, coal wisps, stick	48.77			
	0.07						Coal-and shale interbedded				
	0.38						Shale-dark gray, coal wisps, calcareous filled				

DIAMOND / CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC-112 SHEET No: 6

DATE BEGUN: _____ DEPTH: _____ BEARING: _____ U.T.M. _____

DATE FINISHED: _____ ELEV. COLLAR: _____ TOTAL DEPTH: _____ COAL LICENSE: _____

LAT.: _____ HOLE ANGLE: _____ LOGGED BY: T. Hannah CORE SIZE: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
							fractures, stick				
Box 10	0.57	1.46	1.52	96		73°	Shale-dark gray, stick, minor siltstone beds near top (0.01)				
50.29	0.68						Shale-dark grey, stick				
	0.40	1.08	.92	117			Shale-carbonaceous, coal wisps and lenses, broken stick, slick-n-sides				
51.21	0.35						Shale-dark gray, coal wisps, slick-n-side, broken stick				
	0.03						Coal-powder				
	0.55	.93	1.22	76			Shale-dark gray, calcareous on slick-n-sides and fractures, broken stick				
52.43	0.41						Shale-dark gray, silty, minor coal wisps, stick				
	0.03						Shale-coaly				
	0.38	1.36	1.52	89			Shale-dark gray, stick to broken				
	0.54						Shale-black, 3 coal lenses (0.01) (Top and middle) broken stick				
53.95	0.05						Shale-dark gray, coal wisp, carbonaceous				
Box 11	.69						Shale-as above, broken stick				
	.03						Coal-powdered				
	.18	1.32	1.52	87			Shale-as above				
	.08						Coal-dull with bright, broken				
	.29						Shale-as above				
55.47	.20						Shale-clay rich, black, carbonaceous broken with .01 coal string at base.				
	.22						Shale-slightly silty, dark grey, carbonaceous				
	.04						Coal-shaley bright coal finely interlaminated with shale				

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC-112 SHEET No: 8

DATE BEGUN: _____ DEPTH: _____ BEARING: _____ U.T.M. _____

DATE FINISHED: _____ ELEV. COLLAR: _____ TOTAL DEPTH: _____ COAL LICENSE: _____

LAT.: _____ HOLE ANGLE: _____ LOGGED BY: T. Hannah CORE SIZE: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
Box 12											
con't											
61.57											
	0.43						Shale-black, coal wisps near top, stick 7u			62.00	
	0.09	1.46	1.52	96			Coal-dull, broken				
	0.08						Coal-powder				
	0.60						Coal-dull, broken	163			
	0.26						Coal-powder and rubble				
Box 13											
63.09											
	0.56						Coal-dull with bright bands, minor shale bands (0.01), pyrite on slick-n-sides			63.71	
		0.71	0.80	89							
	0.15						Shale-dark grey, coal wisps, slick-n-sides with calcareous				
63.89											
	0.34						Shale-as above				
	0.03	0.55	0.73	75			Coal-powder				
	0.18						Shale-dark gray, coal wisps, stick				
64.62											
	0.35						Shale-as above				
	0.09						Shale-coaly, powder				
	0.12						Shale-dark gray, coal wisps, broken				
	0.02						Shale-coaly, powder				
	0.05	1.08	1.52	71			Shale-carbonaceous, coal wisps				
	0.17						Coal-dull, broken stick 7L			65.51	
	0.28						Coal-powder to broken, "oolitic" texture at bottom				
66.14											
	0.28						Coal-dull with bright bands, shale bands (0.01) throughout				
								164			
	0.06						Shale-carbonaceous, slick-n-sides				
	0.37	0.98	1.53	64			Coal-dull, broken				
	0.04						Coal-powder				
	0.08						Shale-coaly				

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC-112 SHEET No: 9

DATE BEGUN: _____ DEPTH: _____ BEARING: _____ U.T.M. _____

DATE FINISHED: _____ ELEV. COLLAR: _____ TOTAL DEPTH: _____ COAL LICENSE: _____

LAT.: _____ HOLE ANGLE: _____ LOGGED BY: T. Hannah CORE SIZE: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.15						Coal-powder				
67.67											
	0.16						Shale-coaly grading down to carbonaceous, stick				
	0.30						Coal-dull with bright bands, minor shale bands (0.01), broken	68.51			
Box 14											
	0.08						Sandstone-coaly, fine grain				
	0.07	0.66	1.21	55			Coal-dull.				
	0.05						Shale-dark gray				
68.88											
	0.26	0.26	0.31	84			Shale-as above, broken, slick-n-sides				
69.19											
	0.15						Shale-as above, broken stick				
	0.67	1.49	1.52	98			Shale-silty, grading down to siltstone, stick				
	0.67						Shale-silty, dark gray, slick-n-sides and calcite filled fractures near bottom				
70.71											
	0.17						Shale-as above				
	0.31						Coal-powder	74	165	2094	
	0.15	0.91	1.22	75			Coal-broken and powder				
	0.22						Shale-dark gray, broken			71.45	
	0.06						Shale-powder				
71.93											
	0.10						Shale-broken				
	0.23	0.87	1.22	71			Shale-powder, trace slick-n-sides, coaly				
	0.37						Coal-broken, slick-n-side	76		72.39	
	0.17						Coal-powder				
73.09											
Box 15											
	0.32						Coal-shale, rubble and powder, some may be caved material	166			
	0.10						Coal-dull with bright bands				
	0.20	0.93	1.53	61			Coal-"Oolitic" texture (sandy?)				

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC-112 SHEET No: 10

DATE BEGUN: _____ DEPTH: _____ BEARING: _____ U.T.M. _____

DATE FINISHED: _____ ELEV. COLLAR: _____ TOTAL DEPTH: _____ COAL LICENSE: _____

LAT.: _____ HOLE ANGLE: _____ LOGGED BY: T. Hannah CORE SIZE: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.21						Coal-broken				
	0.10						Coal-powder				
74.62											
	0.12						Coal-broken and powder				
	0.16						Coal-sheared				
	0.05	0.56	1.12	50			Shale-dark gray				
	0.09						Coal-with minor shale, powder				
	0.14						Coal-dull				
75.74	0.06						Shale-rubble, caved?	166			
	0.04						Coal-powder				
	0.09						Coal-broken				
	0.02	0.42	1.07	39			Shale-dark gray				
	0.21						Coal-dull, sheared at bottom				
76.81											
	0.06						Coal-rubble, caved?				
	0.34	0.81	1.22	66			Shale-sheared, rubble and powder (FAULT?)				
	0.34						Shale-dark gray, coal wisps and lenses, broken, stick and broken				
	0.07						Shale-broken, slick-n-sides				
78.03											
	0.04						Coal-rubble				
	0.50						Coal-dull, sheared, slick-n-side, broken and broken stick	167			
	0.08	0.85	0.91	93			Shale-coaly, broken				
	0.23						Shale-and coal, powder				
Box 16											
78.94											
	0.06						Coal-rubble				
	0.07	0.38	0.92	41			Coal-dull, sheared				
	0.25						Shale-dark gray, slick-n-side, broken stick & broken				
79.86											

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC-112 SHEET No: 11

DATE BEGUN: _____ DEPTH: _____ BEARING: _____ U.T.M. _____

DATE FINISHED: _____ ELEV. COLLAR: _____ TOTAL DEPTH: _____ COAL LICENSE: _____

LAT.: _____ HOLE ANGLE: _____ LOGGED BY: T. Hannah CORE SIZE: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
79.86	0.39						Shale-dark gray, fracture at 5° is filled with coal which has irregular thickness and is sheared (0.01) abundant slick-n-side, broken stick				
	0.41	0.8	1.16	69			Shale-and minor coal, powder				
81.02	0.64						Shale-dark gray, slick-n-side with coal and calcite filling, coal wisps near bottom				
	0.07						Coal-sheared				
	0.28						Shale-dark gray, coal wisps, broken stick, coal filled fracture with slick-n-side				
	0.05	1.22	1.46	84			Shale-and coal, powder				
	0.06						Shale-dark gray, coal wisps				
	0.12						Shale-and coal, powdered				
	0.26						Shale-dark gray, coal filled fracture with slick-n-side				
	0.22						Shale-dark gray, broken stick				
	0.09						Shale-interbedded, dark gray, powder bands consisting of shale and shale, dark gray, slick-n-side, coal sheared				
	0.09						Coal-rubble				
	0.17						Coal-sheared				
Box 17											
84.00	0.18						Coal-and shale, contact 40° to core axis-FAULT				
	0.68	0.98	1.52			40°	Coal-interbedded shale, slick-n-side, some coal injected into fracture.				
	0.12						Shale-and coal, powder				
85.53	0.10						Coal-rubble				

OUT

DESCRIPTION
MISSING FOR
154-25

DIAMOND DRILL CORE LOG
(ALL ANGLES MEAS NOM CORE AXIS)

HOLE No: LC 112 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
82.48											
	0.06						Shale, dark grey, coal filled fracture, sheared, slick				
	0.26						Shale, dark grey, broken stick				
	0.22						Interbedded dark grey Shale and powder bands consisting				
							of Shale and coal (sheared)				
	0.15						Shale, dark grey, slick with coal, broken stick				
	0.25	1.29	1.52	85			Interbedded Shale and coal - shale, dark grey, slick				
							Coal, sheared				
	0.09						Coal, rubble, sheared				
	0.09						Coal, dull				
	0.17						Coal, powder, sheared				
Box17											
84.00											
	0.18						Coal, dan shale, contact at 10° to core axis - FAULT				
	0.68	0.98	1.53	64		40°	Coal, interbedded shale, sheared, slick-n-side, some				
							coal injected into fracture				
	0.12						Shale, and coal, powder				
85.53											
	0.10						Coal, rubble				

72
168
8553

DIAMOND CORE LOG
 (ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC-112 SHEET No: 12
 DATE BEGUN: _____ DEPTH: _____ BEARING: _____ U.T.M. _____
 DATE FINISHED: _____ ELEV. COLLAR: _____ TOTAL DEPTH: _____ COAL LICENSE: _____
 LAT.: _____ HOLE ANGLE: _____ LOGGED BY: T. Hannah CORE SIZE: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.09						Coal-powder				
	0.18						Coal-sheared				
	0.09	1.31	1.58	83			Coal-powder	168			
	0.58						Coal-dull?, sheared, stick				
	0.23					38°	Shael-dark gray, sheared coal lenses, coal wisps		86.84		
	0.04						Shale-and coal, powder				
87.11											
	0.71						Coal-sheared, powder at bottom	169	87.11		
	0.07	1.01	1.53	66			Sandstone-coaly, fine grain		88.16		
	0.23						Coal-and shale, rubble and powder				
88.64											
	0.12						Coal-interbedded with shale, thin bedded				
	0.10						Coal-powder		88.71		
Box 18								170			
	0.92						Coal-sheared, minor shale bands (0.01)				
	0.14	1.28	1.58	81			Shale-dark gray, slick-n-side and calcite filled fracture, coal wisps, broken		90.08		
90.22											

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC-112 SHEET No: 13

DATE BEGUN: _____ DEPTH: _____ BEARING: _____ U.T.M. _____

DATE FINISHED: _____ ELEV. COLLAR: _____ TOTAL DEPTH: _____ COAL LICENSE: _____

LAT.: _____ HOLE ANGLE: _____ LOGGED BY: B. Noland CORE SIZE: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	.25					53°	Shale-slightly silty, dark grey to black, carbonaceous abundant coal wisps to stringers, broken slick-n-sides				
	1.25	1.50	1.52	99			Shale-slightly silty, dark grey; carbonaceous with irregular coal wisps and blebs throughout, stick				
91.74											
	1.52	1.52	1.53	99			Shale-as above with 3 zones of more carbonaceous (black) shale with coal stringers .10 thick that are broken				
93.27											
	.19						Shale-as above				
Box 19											
	.29						Shale-as above, grading into underlying siltstone				
	.44						Siltstone-medium grey, bedding indistinct, carbonaceous grading into underlying shale				
		1.52	1.52	100							
	.60						Shale-slightly silty, dark grey to black, carbonaceous with coal stringers.				
94.79											
	.59						Shale-as above, silty, dark grey, broken in middle				
	.09						Coal-bright with dull crushed				
	.13	1.44	1.53	94			Shale-as above				
	.07						Coal-dull, stick				
	.56					70°	Shale-siltstone-interlaminated, bedding disturbed near top				
96.32											
	.23						Shale-silty, dark grey, carbonaceous				
	.20	.59	1.22	48			Siltstone-medium grey, ripple crossbedding				
	.16						Shale-as above				
97.54											
	.49	.49	.61	80			Shale-slightly silty, dark grey to black, carbonaceous with coal stringers, broken				
98.15											

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC-112 SHEET No: 14
 DATE BEGUN: 78/9/12 DEPTH: _____ BEARING: _____ U.T.M. _____
 DATE FINISHED: _____ ELEV. COLLAR: _____ TOTAL DEPTH: _____ COAL LICENSE: _____
 LAT.: _____ HOLE ANGLE: _____ LOGGED BY: B. Noland CORE SIZE: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	.22						Shale-as above				
Box 20											
	.66						Shale-as above with occasional coal stringers and wisps, stick				
		1.35	1.52	89							
	.47						Shale-as above black with abundant coal stringers broken stick				
99.67											
	.21						Shale-as above				
	1.16	1.37	1.52	90			Shale-as above with occasional coal stringers, broken stick				
101.19											
	1.48	1.48	1.53	97			Shale-as above lacking coal stringers, stick				
102.72											
	.11										
Box 21		1.49	1.52	98							
	1.38						Shale-silty, medium dark grey, homogeneous carbonaceous, broken stick				
104.24											
	.62						Shale-as above				
	.16	.94	1.53	61			Shale-as above, broken, re worked				
	.16						Shale-as above, stick				
105.77											
	1.32	1.32	1.52	87			Shale-as above				
107.29											
	.39						Shale-as above				
Box 22		1.45	1.52	95							
	1.06						Shale-as above				
108.81											
	1.49	1.49	1.53	97			Shale-as above				
110.34											
	1.53	1.53	1.52	101		68°	Shale-as above, faint bedding				
Box 23											
111.86											

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC-112 SHEET No: 15

DATE BEGUN: _____ DEPTH: _____ BEARING: _____ U.T.M. _____

DATE FINISHED: _____ ELEV. COLLAR: _____ TOTAL DEPTH: _____ COAL LICENSE: _____

LAT.: _____ HOLE ANGLE: _____ LOGGED BY: B. Noland CORE SIZE: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	1.57	1.57	1.53	103		55-65	Shale-as above with minor siltstone laminae				
113.39											
	1.51	1.51	1.52	99			Shale-as above				
114.91											
	.93					63°	Shale-as above with one bedding plane slick-n-side with calcite and pyrite filling (@ 63)				
Box 24		1.43	1.52	94							
	.50						Shale-as above, broken zone in middle				
116.43											
	1.50	1.50	1.53	98			Shale-medium grey silty, slightly calcareous				
117.96											
	1.52	1.52	1.52	100		42-55	Siltstone-sandstone, calcareous, very fine grain sand alternating light silt and sand laminae and dark carbonaceous laminae, planer low angle crossbedding and soft sedimentary deformation present				
119.48											
	.53						Siltstone-sandstone, as above, abundant calcite filled fractures near base, slightly brecciated, slick-n-side at base				
	.17						Shale-silty, dark grey, disturbed, calcite and pyrite filled small fractures, sharp upper and lower contact at 40° (breccia?) (possible FAULT)				
	1.47	1.53	96								
	.77					59-75	Siltstone-shale, disturbed by minor calcite filled faults, interlaminated, calcareous, one minor fault appears to be reverse with .01 m displacement (fault @ 15°)				
121.01											
	1.49	1.49	1.52	98		68-70	Siltstone-shale 1:1, dark grey, bedding faint occasional calcite filled fractures, carbonaceous				
122.53											
	1.48	1.48	1.52	97			Shale-siltstone, as above but shale is dominant calcite fractures near base				

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC-112 SHEET No: 16

DATE BEGUN: _____ DEPTH: _____ BEARING: _____ U.T.M. _____

DATE FINISHED: _____ ELEV. COLLAR: _____ TOTAL DEPTH: _____ COAL LICENSE: _____

LAT.: _____ HOLE ANGLE: _____ LOGGED BY: B. Noland CORE SIZE: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
124.05	.22						Shale-siltstone, as above				
Box 26	1.28	1.50	1.55	97		67-55	Siltstone-shale, medium to dark grey planar, bedding carbonaceous.				
125.6	1.50	1.50	1.50	100			Siltstone-shale, as above				
127.10	1.46	1.46	1.53	95		45-65	Siltstone-sandstone, medium dark grey, siltstone with (in SST) .50m zone of very fine grain ripple crossbedding sandstone in middle				
128.63	1.52	1.52	1.52	100		55-60	Siltstone-medium grey, carbonaceous with very fine grain sandstone wisps, soft sedimentary deformation present				
Box 27	1.51	1.51	1.52	99			Siltstone-sandstone, siltstone as above with very fine grain sandstone zone in middle (.20 thick)				
130.15	.35						Siltstone-sandstone, as above				
131.67	.88						Sandstone-medium grey, alternating light (sandy) & dark (carbonaceous) laminae, crossbedded calcareous carbonaceous with zones of shale clasts calcite filled joints, medium grained				
Box 28	.23	1.46	1.53	95			Sandstone-as above, with irregular coal stringers & wisps				
133.20	1.46	1.46	1.52	96			Sandstone-as above with .70 zone in middle with no coal stringers or wisps coaly zones are general broken with calcite fillings of fractures.				

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC-112 SHEET No: 17

DATE BEGUN: _____ DEPTH: _____ BEARING: _____ U.T.M. _____

DATE FINISHED: _____ ELEV. COLLAR: _____ TOTAL DEPTH: _____ COAL LICENSE: _____

LAT.: _____ HOLE ANGLE: _____ LOGGED BY: B. Noland CORE SIZE: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
134.72	.54						Sandstone-as above, with abundant coal stringers and wisps and pyrite, coal stringers occasionally cut bedding (coal filled fractures) abundant slick-n-sides, broken				
	.94	1.48	1.53	97			Sandstone-as above lacking coal stringers, calcite filled fractures and slick-n-sides abundant				
136.25	.34						Sandstone-as above with coal stringers, at top, coarse grained, abrupt contact with underlying shale @ 70° appears to be base of fining up sequence				
	.49	1.51	1.52	99			Shale-silty, medium to dark grey, carbonaceous				
Box 29	.68						Shale-as above				
137.77	1.56	1.56	1.52	103			Shale-as above becoming dark grey and very carbonaceous midway to base				
139.29	.17						Sandstone-medium grained, abundant coal and shale stringers, slick-n-sides				
	.94						Siltstone-sandstone, medium grey, interlaminated very fine to medium grained sandstone, sharp contact with underlying shale				
	.34	1.45	1.53	95			Shale-black carbonaceous homogeneous				
140.82	.16						Shale-as above with irregular sharp contact with underlying siltstone				
	.39						Siltstone-sandstone, medium grey, interlaminated very fine grain to fine grain sandstone and carbonaceous siltstone				
		1.49	1.52	98							
Box 30											

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC-112 SHEET No: 18

DATE BEGUN: _____ DEPTH: _____ BEARING: _____ U.T.M. _____

DATE FINISHED: _____ ELEV. COLLAR: _____ TOTAL DEPTH: _____ COAL LICENSE: _____

LAT.: _____ HOLE ANGLE: _____ LOGGED BY: B. Noland CORE SIZE: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	.94						Sandstone-siltstone, as above, but grading downward into predominantly sandstone				
142.34											
	1.44	1.44	1.53	94		45-75	Sandstone-medium grey, medium to coarse grain, carbonaceous crossbedded with coal stringers in coarse grained zones, stringers are irregular and cut bedding, large variance of bedding, angle, coaly zones are broken, calcite filled fractures				
143.87											
	1.47	1.47	1.53	96			Sandstone-as above				
145.40											
	.25						Sandstone-as above				
Box 31		.54	.60	90							
	.29						Sandstone-as above				
146.00											
	.58	.58	.91	64			Sandstone-as above lacking coal stringers				
146.91											
	1.42	1.42	1.50	95			Sandstone-as above, with shale at base				
148.41											
	1.52						Sandstone-as above coarsening downward				

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC-112 SHEET No: 19

DATE BEGUN: _____ DEPTH: _____ BEARING: _____ U.T.M. _____

DATE FINISHED: _____ ELEV. COLLAR: _____ TOTAL DEPTH: _____ COAL LICENSE: _____

LAT.: _____ HOLE ANGLE: _____ LOGGED BY: B. Noland CORE SIZE: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
Box 32	1.46					47-66	Sandstone-medium to coarse grained, medium to dark grey, carbonaceous, with irregular coal and occasionally carbonaceous shale wisps and stringers throughout, shale clasts common above shale zones, abundant calcite and/or coal filled fractures, joints and slick-n-sides, bedding disturbed to high angle, crossbedding, sequence seems to fine upward (3 major sequences in sandstone unit), coaly areas are generally broken.				
		2.98	3.08	97							
151.49	1.08	1.23	1.52	81			Sandstone-as above, bedding very disturbed				
	0.15						Sandstone-broken				
153.01	.06						Sandstone-as above				
	.65	.96	1.52	63			Sandstone-as above, broken stick				
	.25						Sandstone-as above, broken				
Box 33											
154.53	.20						Sandstone-as above				
	1.26	1.46	1.53	95			Sandstone-as above, broken stick				
156.06	1.51	1.51	1.52	99		22-35	Sandstone-as above				
157.58	1.02						Sandstone-as above				
Box 34											
	.38	1.46	1.53	95		42-55	Sandstone-as above, truncated shale clasts by slick-n-side				
	.06						Coal-sheared, powdered				
159.11	.08					0?	Sandstone-Shale, coal, sheared with slick-n-sides and bedding? @ 0°				

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC-112 SHEET No: 20

DATE BEGUN: _____ DEPTH: _____ BEARING: _____ U.T.M. _____

DATE FINISHED: _____ ELEV. COLLAR: _____ TOTAL DEPTH: _____ COAL LICENSE: _____

LAT.: _____ HOLE ANGLE: _____ LOGGED BY: B. Noland CORE SIZE: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	.45						Sandstone-shale-coal, interbedded intermixed sheared and slick-n-sided bedding 70-80° (POSSIBLE FAULT, between this and above unit)				
		1.51	1.52	99							
	.98						Sandstone-as described above, disturbed sandstone, shale, coal zone				
160.63											
	.33						Sandstone-as above with abundant shale clasts at base, this is base of one fining up sequence, broken stick				
		1.53	1.52	101							
	1.20						Shale-sandstone, dark grey carbonaceous shale grading down into a medium grain, dark grey ripple cross-bedded unit.				
1.62.15											
	.45						Sandstone-see Box 32 for description, coarsening down from medium grain to coarse grained with abundant coal stringers at base in Box 36.				
		1.47	1.53	96							
Box 35											
	1.02					35-65	Sandstone-as above				
163.68											
	1.52	1.52	1.52	100			Sandstone-as above				
165.20											
	1.52	1.52	1.53	99			Sandstone-as above				
166.71											
	.05						Sandstone-as above				
Box 36											
	.94						Sandstone-as above, very coarse grained base of fining up sequence, sharp contact at 75°				
							NOTE: a) 3 fining up sequences: 167.7 to 161.0 161.0 to 136.6, 136.6 to 115				
							b) high sheared and disturbed nature of sandstone between 156 and 160 suggests faulting.				
		1.46	1.52	96							

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC-112 SHEET No: 21

DATE BEGUN: _____ DEPTH: _____ BEARING: _____ U.T.M. _____

DATE FINISHED: _____ ELEV. COLLAR: _____ TOTAL DEPTH: _____ COAL LICENSE: _____

LAT.: _____ HOLE ANGLE: _____ LOGGED BY: B. Noland CORE SIZE: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	.47						Shale-silty, dark grey, carbonaceous, homogeneous				
168.25	1.53	1.53	1.52	101			Shale-as above with few silty very fine grain sand wisps near base				
169.77	1.13						Shale-as above with occasional silty and sand wisps				
		1.47	1.53	96			minor calcite fractures				
Box 36	.34					62°	Shale-siltstone, interlaminated				
171.30	1.52	1.52	1.52	100			Shale-siltstone, as above				
172.82	.70						Shale-siltstone, grading into underlying shale				
	.21						Shale-clay rich, black, carbonaceous, waxy luster with thin coal wisps throughout, slick-n-sides				
	.05						Coal-shaley interlaminated				
	.12	1.48	1.53	97			Shale-as above				
	.07						Coal-shaley as above				
	.33						Shale-as above				
174.35	.75						Shale-as above, broken stick				
Box 38		1.18	1.52	78							
	.43						Shale-as above with powdered coaly zones				
175.87	1.15	1.15	1.52	76			Shale-as above, broke and reworked at top, stick below				
177.39	.86						Shale-becoming silty and lighter in colour to a dark grey, faint bedding				
	.10						Breccia-rounded, diffuse dark grey shale clasts in a light brown grey matrix with calcite filled fractures and round blobs of finely crystalline				

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC-112 SHEET No: 22

DATE BEGUN: _____ DEPTH: _____ BEARING: _____ U.T.M. _____

DATE FINISHED: _____ ELEV. COLLAR: _____ TOTAL DEPTH: _____ COAL LICENSE: _____

LAT.: _____ HOLE ANGLE: _____ LOGGED BY: B. Noland CORE SIZE: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
		1.43	1.53	93			pyrite or marcasite, bottom contact is difuse and approximately parallel bedding below				
	.47					50°	Shale-as above				
178.92											
	.75						Shale-as above, broken stick				
Box 39											
	.49						Shale-as above				
	.04						Breccia-angular shale framework in a calcite matrix top and bottom contact approximately parallel bedding				
		1.51	1.52	99							
	.23					50°	Shale-as above				
180.44											
	1.46	1.46	1.53	95			Siltstone-shale, medium to dark grey, interlaminated gradational contact above and below				
181.97											
	.51						Shale-siltstone, dark grey, interlaminated				
	.82	1.45	1.52	95			Shale-silty, dark grey, carbonaceous with some silty wisps throughout, broken zones, generally having abundant calcite filled fractures and occasionally coal stringers where the above mentioned calcite fractures are absent in stick core				
	.12						Shale-as above, broken				
183.49											
	.46						Shale-as above, broken to broken stick				
Box 40		1.33	1.52	88							
	.87						Shale-as above				
185.01											
	1.43	1.43	1.53	93			Shale-as above, broken stick to stick				
186.54											
	1.35	1.35	1.52	89		50°	Shale-as above				
188.06											
	.22						Shale-as above				

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC-112 SHEET No: 23

DATE BEGUN: _____ DEPTH: _____ BEARING: _____ U.T.M. _____

DATE FINISHED: _____ ELEV. COLLAR: _____ TOTAL DEPTH: _____ COAL LICENSE: _____

LAT.: _____ HOLE ANGLE: _____ LOGGED BY: B. NoLand CORE SIZE: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
Box 41		1.52	1.53	99							
	1.30						Shale-as above				
189.59											
	1.47	1.47	1.52	97			Shale-as above				
191.11											
	1.47	1.47	1.52	97			Shale-as above				
192.63											
	.03						Shale-as above				
Box 42											
	.44						Shale-as above				
	.13	1.42	1.53	93			Shale-as above, slick-n-sided, sheared, broken		4/20		
	.82						Shale-as above, broken stick to stick				
194.16											
	.23						Shale-as above, broken				
	1.19	1.42	1.52	93			Shale-as above, broken stick				
195.68											
	.40	.40	.61	66			Shale-as above, broken, abundant slick-n-sides, sheared		2/05		
196.29											
	.69						Shale-as above, broken stick, bedding indistinct, NOTE: possible faulting in above sheared zones				
Box 43											
	.21	.90	.92	98			Shale-dark to medium grey, silty, carbonaceous bedding faint to indistinct, broken zone generally corre- spond to zones of abundant coal and/or calcite filled fractures and slick-n-sides, Boxes 43 to 50 show evidence of faulting.				
197.21											
	1.49	1.49	1.52	98			Shale-as above, with abundant slicks and one con- tinuous carbonaceous slicked joint at 5° bordered by calcite filled breccia 1 m. long				
198.73											

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC-112 SHEET No: 24

DATE BEGUN: _____ DEPTH: _____ BEARING: _____ U.T.M. _____

DATE FINISHED: _____ ELEV. COLLAR: _____ TOTAL DEPTH: _____ COAL LICENSE: _____

LAT.: _____ HOLE ANGLE: _____ LOGGED BY: B. Noland CORE SIZE: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	1.90	1.90	2.01	95			Shale-as above, broken stick				
200.74	.29					20°	Shale-as above				
Box 44		1.06	1.04	102							
	.77						Shale-as above				
201.78	.67						Shale-as above				
	.20						Shale-as above, broken, few slick-n-sides, little calcite filling				
		1.52	1.52	100							
	.20						Shale-as above, slick-n-side				
	.05						Shale-abundant calcite filled slick-n-sides, broken				
	.40						Shale-as above, slick-n-sides				
203.3											
	1.49	1.49	1.53	97		20?	Shale-as above, broken stick, occasional calcite filled slick-n-sides, soft sedimentary deformation				
204.83											
	.27						Shale-as above				
Box 45											
	1.24	1.51	1.52	99			Shale-becoming less silty, more carbonaceous and clay rich, dark grey to black stick				
206.35											
	1.52	1.52	1.52	100			Shale-as above, bedding faint, slick-n-sides, broken stick				
207.87											
	1.52	1.52	1.53	99			Shale-as above, homogeneous, stick				
209.4											
Box 46											
	.67					20°	Shale-as above, faint, bedding				
	.77	1.44	1.52	95			Shale-as above, abundant coaly slick-n-sides lacking calcite, broken to broken stick				
210.92											
	.66						Shale-as above not broken lacking slick-n-sides				

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC-112 SHEET No: 25

DATE BEGUN: _____ DEPTH: _____ BEARING: _____ U.T.M. _____

DATE FINISHED: _____ ELEV. COLLAR: _____ TOTAL DEPTH: _____ COAL LICENSE: _____

LAT.: _____ HOLE ANGLE: _____ LOGGED BY: B. Noland CORE SIZE: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	.85	1.51	1.53	99			Shale-as above, abundant coaly slick-n-sides, broken to broken stick, bedding very disturbed				
212.45											
	.74						Shale-as above lacking slick-n-sides, stick, disturbed bedding with irregular coal filled fractures and more regular continuous calcite filled fractures				
	.26						"Brecciated" zone-abundant calcite filled fractures in light brown to grey matrix with pyrite and marcasite blobs, sharp fault contact with upper although shale above has some pyrite and marcasite blobs and lighter coloured areas near base.				
Box 47											
	.48					30?	Shale-bedoming silty and medium to dark grey, carbonaceous, slick-n-sides, 2 calcite filled breccia bands bedding disturbed.				
		1.48	1.52	97							
213.97											
	1.52	1.52	1.52	100			Shale-as above, 2 brecciated bands with slick-n-sides (.05 and .20 thick) near top and bottom				
215.49											
	1.52	1.52	1.22	125			Shale-as above with one calcite fracture zone in middle				
216.71											
	.18						Shale-coaly black fissile, slick-n-sided, broken				
	.30						Shale-as above, not coaly, stick				
	.10	1.46	1.83	80			Shale-coaly, black, broken to powdered				
Box 48							Shale-silty, medium to dark grey, carbonaceous				
	.88						Shale-as above, broken stick				
218.54											
	1.08					30°	Shale-as above, slick-n-sided at base				
	.40	1.48	1.22	121			"Fault Breccia" light grey brown (pyrite staining?) slick-n-sides approximately parallel to bedding thin calcite and coal filled fractures, stick, one true calcite filled breccia band at base bordered				

DIAMOND CORE LOG
 (ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC-112 SHEET No: 26

DATE BEGUN: _____ DEPTH: _____ BEARING: _____ U.T.M. _____

DATE FINISHED: _____ ELEV. COLLAR: _____ TOTAL DEPTH: _____ COAL LICENSE: _____

LAT.: _____ HOLE ANGLE: _____ LOGGED BY: B. Noland CORE SIZE: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
							by slick-n-sides				
19.76	.42	1.57	1.83	86			As above-with two .03m coal and pyrite filled vugs with a light tan "halo" surrounding them, more abundant coal and calcite filled fractures than above pyrite and marcasite "blobs"				
	1.15					20°	Shale-as above				
21.59	.31						Shale-as above				
Box 49	.66					28-30	Shale-as above with minor small calcite filled fractures				
		1.49	1.52	98							
	.52						Shale-as above with 3 calcite filled braccia bands (.01 to .05) approximately parallel to bedding broken				
23.11	1.52	1.52	1.53	99			Shale-as above lacking slick-n-sides and fractures broken stick				
24.64	1.48	1.48	1.52	97		20-30	Shale-as above				
26.16	.06					2	Shale-as above				

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LG-112 SHEET No: 27

DATE BEGUN: _____ DEPTH: _____ BEARING: _____ U.T.M. _____
 DATE FINISHED: _____ ELEV. COLLAR: _____ TOTAL DEPTH: _____ COAL LICENSE: _____
 LAT.: _____ HOLE ANGLE: _____ LOGGED BY: B. Noland CORE SIZE: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
Box 50	1.46	1.52	1.53	99		20°	Shale-medium to dark grey, silty, carbonaceous, slightly disturbed bedding, broken stick				
227.69	1.48	1.48	1.52	97			Shale-as above with slick-n-side at base filled with sheared, slick-n-sided coal approximately parallel to bedding				
229.21	1.37	1.49	1.52	98			Shale-as above with some calcite and coal filled fractures and slick-n-sides				
Box 51	.12						Shale-as above, broken				
230.73	.80	.80	1.07	75			Shale-as above less silty, broken to broken stick abundant slick-n-sides lacking calcite				
231.80	.30						Shale-as above				
	.09						Coal-very sheared and slick-n-sided, top contact at 23° bottom @ 57°		1/23 1/57		
	.25	1.13	1.55	73			Shale-as above abundant slick-n-sides, broken				
	.49					32°	Shale-as above, fewer slick-n-sides, broken stick				
233.35	1.45	1.45	1.50	97		30-38	Siltstone-shale interlaminated with occasional fine grain sandstone laminae, bedding slightly disturbed, occasional calcite filled fractures throughout				
234.85	.10						Siltstone-shale, as above				
Box 52	1.58	1.52	1.04								
	1.48						Shale-siltstone, as above, shale is predominant more fractured than above, slick-n-sides along bedding				
236.37											

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC-112 SHEET No: 28

DATE BEGUN: _____ DEPTH: _____ BEARING: _____ U.T.M. _____

DATE FINISHED: _____ ELEV. COLLAR: _____ TOTAL DEPTH: _____ COAL LICENSE: _____

LAT.: _____ HOLE ANGLE: _____ LOGGED BY: B. Noland CORE SIZE: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	.20						Shale-silty, medium to dark grey with some silty laminae, broken				
		1.58	1.53	103							
	.71						Shale-as above, broken stick				
	.67						Shale-as above with abundant calcite filled fractures with some brecciation of shale, slick-n-sides becoming light grey brown near base, calcareous near base				
237.90											
	.46						Shale-as above, light grey brown brecciated with abundant calcite filled fractures, slick-n-sides at base				
							Fault (Calcite may cause lighting of shales near faults)				
	.47					28?	Sandstone-medium grain, medium to dark grey, abundant calcite and coal filled fractures at top of which several are truncated by overlying shale, Shale-sandstone contact is irregular but approximately planar @ 34°, abundant coal filled slick-n-sides throughout, bedding tectonically disturbed, broken stick.				
		1.48	1.52	97							
Box 53											
	.55						Sandstone-as above coarse grain, irregular coal and calcite filled fractures and slick-n-sides, massive bedding indistinct				
239.42											
	1.47	1.47	1.55	95		30°	Sandstone-as above becoming medium to coarse grain near base				
240.97											
	1.52	1.52	1.53	99		30-40	Sandstone-as above with some irregular shale bands (fracture fillings?) throughout				
242.5											
	.24					50°	Sandstone-as above				

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC-112 SHEET No: 29

DATE BEGUN: _____ DEPTH: _____ BEARING: _____ U.T.M. _____

DATE FINISHED: _____ ELEV. COLLAR: _____ TOTAL DEPTH: _____ COAL LICENSE: _____

LAT.: _____ HOLE ANGLE: _____ LOGGED BY: B. Noland CORE SIZE: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
Box 54	0.82	1.06	1.04	102			Sandstone-as above coarse grain, massive bedding, faint to indistinct with abundant coal and calcite filled fractures, bedding disturbed				
243.54	.76	.76	.91	84		15°	Sandstone-as above				
244.45	1.51	1.51	1.52	99			Sandstone-as above				
245.97	.76						Sandstone-as above				
Box 55	1.51	1.51	1.53	99							
	.75					35°	Sandstone-becoming medium grain and lacking coal stringers and infillings, calcite filled fractures present as above				
			1.52	93			Shale-silty, dark grey, possible fault with overlying sandstone, slick-n-side calcite filled fractures at contact calcite filled fractures throughout				
TYPE DESCRIPTION											
For. 22 IS MISSING											
249.02	.61						Sandstone-as above silty, abundant calcite filled fractures				
	.15	1.42	1.53	93			Sandstone-as above, broken				
	.61						Sandstone-as above, broken stick				
	.05						Breccia-silty as above in a calcite vein matrix slick-n-sides at contact with above sandstone @ approximately 30°				
250.55	.39						Breccia-as above				
Box 56							Brecciated zone, sandstone and shale interbedded with thin (.01 to .02) breccia bands that are calcite filled				

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC-112 SHEET No: 30

DATE BEGUN: _____ DEPTH: _____ BEARING: _____ U.T.M. _____

DATE FINISHED: _____ ELEV. COLLAR: _____ TOTAL DEPTH: _____ COAL LICENSE: _____

LAT.: _____ HOLE ANGLE: _____ LOGGED BY: B. Noland CORE SIZE: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
		1.29	1.52	85			filled, abundant slick-n-sides, slick-n-sides at base				
	.11						Shale-dark grey, silty, carbonaceous, slightly brecciated (Fault contact with above unit?)				
252.07											
	1.46	1.46	1.52	96			Shale-as above, abundant slick-n-sides, bedding indistinct, broken stick				
253.59											
	1.46	1.46	1.53	95			Shale-as above				
255.12											
	.18						Shale-as above				
Box 57											
	.84						Shale-as above				
	.10						Shale-coaly, black, broken				
	.08	1.28	1.52	84			Coal-shaley, stick				
	.08						Shale-dark grey, slightly silty, carbonaceous				
256.64											
	1.43	1.43	1.53	93		45 ^o	Shale-as above with silty wisps and occasional coal wisps, slick-n-sides throughout				
258.17											
							END OF HOLE				

DIAMOND / CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 113 SHEET No: 1

DATE BEGUN: Aug. 20/78 DEPTH: _____ BEARING: _____ U.T.M. _____

DATE FINISHED: _____ ELEV. COLLAR: _____ TOTAL DEPTH: _____ COAL LICENSE: _____

LAT.: _____ HOLE ANGLE: _____ LOGGED BY: T. Cole CORE SIZE: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
Box 1											
	0.45						Sandstone, medium to coarse grain, light grey with some dark grey wispy beds, weathered to orange in part, carbonaceous filled fractures, calcareous				
	0.88					48	Shale, medium to dark grey, a few silty beds at top (light grey) Shale carbonaceous in lower half, broken stick				
4.66											
	0.45						Shale as above				
	0.96	1.41	1.59	89			Shale, dark grey, carbonaceous, slightly silty				
6.25											
	1.08						Shale, as above, .02 sandy bed in middle				
Box 2											
	0.42	1.5	1.52	99			Shale, as above, silty to sandy at top				
7.77											
	0.90					45	Shale, as above, a few medium grey silty beds				
	0.05						Shale, dark grey, carbonaceous				
	0.06						Shale, dark grey, carbonaceous, iron stained, crumbled				
	0.49	1.5	1.53	98			Shale, dark grey, carbonaceous, some iron stain, broken				
9.30											
	0.50	0.50	0.45	1.11			Shale, as above, broken				
9.75											
	0.40	0.40	0.49	82			Shale, medium to dark grey, slightly silty, slightly carbonaceous				
10.24											
	0.65						Shale, as above				
Box 3											
	0.52	1.17	1.25	94		49	Shale, dark grey, carbonaceous, some silty beds near top, siltstone is calcareous, broken		1/0 ^o		
11.49											

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 113 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.10					49	Shale, medium to dark grey, carbonaceous, iron stained				
	0.88	0.98	1.01	97			Sandstone-Shale, interbedded, medium grey shale, light grey fine grain sandstone, slightly calcareous				
12.50											
	0.58	0.58	0.62	94			Sandstone/Shale, as above				
13.12											
	0.63					50	Sandstone/Shale, as above				
	0.65						Shale, dark grey, carbonaceous, trace plant debris				
	0.10	1.38	1.51	91			Sandstone/Shale, interbedded, light grey sandstone, fine grain, and medium to dark grey Shale, slightly ripple bedded, sandstone is slightly calcareous				
14.63											
	0.23						Sandstone/Shale, as above				
Box 4											
	0.70	0.93	1.22	76		45-50	Sandstone, fine grain, medium grey, ripple cross-bedded with interbedded dark grey silty shale, broken stick, slightly calcareous				
15.85											
	0.31	0.31	0.30	103			Sandstone, as above				
16.15											
	0.37						Shale, dark grey to black, carbonaceous, coaly at base, broken to broken stick				
	0.15					16.60	Coal, dull with bright, broken stick				
	0.08						Coal, dull, powdered				
	0.09	0.69	1.47	47			Coal, dull with bright, powdered				
17.62											
	0.12						Coal, dull, broken				
	0.06						Shale, black, coaly				
	0.06						Coal, shaly, black, broken				
	0.07						Coal, dull, earthy, powdered				
	0.06						Coal, dull, powdered				

CORE DESCRIPTION IS REVERSED WRT GEP MY. 106.

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 113 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
18.59	0.16	0.53	0.97	55	17.88		Shale, dark grey, carbonaceous, clay rich, broken				
19.20	0.55	0.55	0.61	90			Shale, as above with abundant iron staining				
	0.25						Shale, as above				
	0.20						Shale, carbonaceous, very fissile				
	0.14					50	Shale, dark grey, carbonaceous with silty lamina throughout, broken stick				
Box 5											
20.36	0.41	1.00	1.16	86			Shale, as above				
21.88	1.38	1.38	1.52	91		40	Shale, as above				
	1.24						Shale, as above				
	0.27	1.51	1.59	95			Shale, dark grey to black, soft, broken, very carbonaceous				
23.47											
	0.21						Shale, dark grey, carbonaceous, silty				
	0.22						Shale, dark grey to black, carbonaceous, fissile, abundant iron stains, soft, broken				
Box 6											
	1.00	1.43	1.52	94			Shale, dark to medium grey, with abundant calcareous silty lamina, broken stick				
24.99											
	1.50	1.50	1.53	98		44	Shale, as above with weathered zone .1 m thick brown in color, near top. iron stain on joints				
26.52											
	0.82	0.82	0.85	96		48	Shale, as above				
27.37											
	0.50						Shale, as above				
Box 7											

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 113 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.96	1.46	1.59	92			Shale, as above but lacking silty lamina, broken at top and bottom				
28.96	0.10						Shale, as above, broken				
	0.08						Concretion medium brown to grey with orange brown sideritic filled fractures, occasional calcite filled fractures, pyrite blebs				
	0.10						Shale, as above, broken				
	0.17	0.45	0.61	74			Shale, as above, stick				
29.57	0.91						Shale, as above, broken				
	0.49	1.40	1.52	92			Shale, as above, broken stick				
31.09	0.45						Shale, as above				
Box 8	0.94	1.39	1.52	91			Shale, as above with silty laminae increasing in frequency near base				
32.61	0.10					50	Shale, as above abrupt below				
	0.68						Sandstone, fine to medium grain, light grey weathered to brownish orange, carbonaceous lamina throughout, calcareous, abrupt below				
	0.64	1.42	1.53	93			Interbedded very fine grain to fine grain calcareous sandstone with silty carbonaceous Shale, broken stick				
34.14	1.52	1.52	1.52	100		50	Sandstone/Shale, as above				
35.66											
Box 9	1.43	1.43	1.53	93			Sandstone/Shale, as above, shaly at base				
37.19											

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 113 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	1.12						Shale, with occasional siltstone and sandstone lamina, carbonaceous, with plant fragments, iron stains on joints and fractures				
	0.30	1.42	1.52	93			Clay, light grey, powdery, probably due to break-down of Shale, S1 in hardness				
38.71											
	0.68						Shale, dark grey to black, carbonaceous, silty, abundant iron stains on joints and fractures				
	0.14	0.82	0.91	90			Clay, light grey, S1 in hardness, powdered				
39.62											
	0.41						Shale, dark grey, carbonaceous, trace plant fragments silty, slightly calcareous, iron staining on joints and fractures				
Box 10											
	0.74	1.15	1.22	94		48	Shale, as above with few very silty bands .01 m thick and a .17 rubble zone at base				
40.84											
	1.10	1.10	1.22	90			Shale, dark grey to black, carbonaceous, slightly silty, 3 very fine grain sandstone bands .03 - .05 m thick in upper half, abundant iron staining throughout, broken stick				
42.06											
	0.49					46	Shale, silty, dark grey-black, homogenous, iron stained on joints, slicks below				
	0.05				42.42		Coal, dull, powdery	42.42			25
	0.06	0.96	1.22	79			Coal, dull, stick				
	0.10						Coal, bright, sheared, broken stick				
	0.10						Coal, dull, broken stick	176			
	0.10						Coal, dull with bright, stick, iron stained on joints				
	0.06						Coal, dull broken - powdery				
43.28											
	0.20						Coal, dull, slicked, iron stained, broken				

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 113 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.06						Coal, dull, stick	42.65			26
	0.07					Coal, bright with dull, stick					
	0.11	1.09	1.53	71			Coal, dull, stick				
	0.06						Coal, bright, broken - powdery				
	0.23						Coal, dull, stick				
	0.03						Shale, carbonaceous, coaly stringers, broken				
	0.20						Coal, dull with bright, stick				
	0.03						Coal, bright, stick				
Box 11 4.81	0.10						Coal, dull and bright, broken stick	177			
	0.20						Coal, dull and bright, broken stick				40
	0.10						Shale, carbonaceous, broken stick				
	0.33	1.52	1.52	100			Coal, dull, broken stick				
	0.33						Coal, dull and bright, broken stick, iron stained on joints				
	0.50						Coal, dull, sheared				
	0.06						Coal, dull, broken				
6.33											
	0.12						Coal, dull, broken iron stained on joints				
	0.09						Coal, bright, broken stick				30
	0.11						Coal, dull, pyrite discs show iron staining				
	0.04						Coal, bright, broken				
	0.12						Coal, dull with bright, iron stained on joints, broken stick				
	0.06	1.17	1.40	84			Coal, dull, broken				
	0.20						Coal, dull, broken stick				
	0.31						Coal, dull and bright, stick	177			
	0.12						Coal, dull, broken stick				
47.73											
	0.15						Coal, dull, broken				60
	0.10	1.25	1.53	82			Coal, dull and bright, broken stick				

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 113 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.45						Coal, dull, broken stick, iron stained on joints				
	0.55						Coal, dull with bright, broken stick, irridescant and iron stained on joints				
49.26											
	0.18						Coal, dull and bright, broken		49.48		
	0.44	0.66	0.82	81	49.32		Shale, carbonaceous with coaly stringers, broken stick, iron stained on joints				21
	0.04						Shale, coaly, broken, iron stained on joints	178			
50.08											
	0.30						Shale, carbonaceous with numerous plant fragments, coaly stringers, broken iron stained on joints		50.46		17
	0.07				50.35		Coal, bright, broken stick				
	0.01						Coal, shaley, broken stick				
	0.04	0.73	0.91	80			Coal, dull and bright, stick	179			
	0.01						Coal, shaley, broken				
	0.04						Coal, bright stick				
	0.06						Shale, carbonaceous, stick				
	0.20						Coal, dull and bright, stick, iron stained on joints				
50.99											
	0.05						Coal, bright, stick				28
	0.35						Coal, dull, stick, iron stained on joints		51.66		
	0.05						Coal, bright, stick				
	0.32	0.87	1.44	60			Coal, dull, broken stick				
	0.07						Coal, dull, stick				
	0.03						Coal, and clay mixed				
52.43											
	0.10						Coal, sheared, broken				26
	0.06						Coal, dull, broken				
	0.02						Shale, carbonaceous, iron stained	180			
	0.03	0.82	1.06	77			Coal, dull, broken				
	0.03						Coal, bright, broken				
	0.30						Coal, dull, broken				

DIAMOND / CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 113 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.25						Coal, dull with bright, broken-stick				
	0.03						Coal, dull, stick				
53.49											0
	0.03						Coal, dull, broken stick				
	0.15	0.63	1.5	42			Coal, dull with bright, broken				
Box13											
	0.45						Coal, dull, broken iron stained on joints				
54.99											
	0.24						Coal, dull, broken stick				37
	0.02						Coal, shaley, stick				
	0.36	0.91	0.82	111			Coal, dull with bright, broken stick				
	0.24						Coal, dull and bright, broken stick				
	0.05						Coal, dull, powdery				
55.81											
	0.11	0.23	0.82	28			Coal, dull, broken				0
	0.12						Coal, dull, powdery				
56.63											
	0.30						Coal, dull, broken				
	0.10						Coal, dull with bright, broken				
	0.28	0.68	0.92	74			Coal, dull, broken stick				0
57.55											
	0.31						Coal, dull with bright, broken stick				31
	0.22	0.88	0.97	91			Coal, dull and bright, stick				
	0.35						coal, dull with bright, broken stick, trace iron staining on joints				
58.52								180			
	0.13						Coal, dull, stick				16
	0.13						Coal, bright, stick				
	0.14	0.93	1.22	76			Coal, dull, stick				
	0.16						Coal, with large % of iron ooliths, stick, 50% carbonaceous material 50% iron and shales				
	0.22						Coal, dull with bright stick				

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 113 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.15						Coal, dull, powdery-broken				
59.74								59.74			
	0.27				59.72		Shale, carbonaceous, broken-powdery				
	0.10	0.88	1.07	82			Coal, dull, powdery				14
	0.35						Shale, carbonaceous, iron stained on joints, stick				
	0.16						Shale, carbonaceous, broken				
60.81											
Box15											
	1.29	1.29	1.58	82			Shale, very dark grey, carbonaceous, iron staining on some joints, a few coaly sp				
62.39											
	1.48	1.48	1.62	91			Shale, as above, dark grey				
64.01											
	0.72						Shale, as above, slightly silty				
	0.50					52	Shale, dark grey, carbonaceous with interbeds of medium to light grey siltstone				
Box16											
	0.19	1.41	1.52	93			Shale, as above				
65.53											
	1.10						Shale, dark grey, carbonaceous, silty, bedding poorly defined				
	0.42	1.52	1.53	99			Shale, very silty, medium to dark grey, carbonaceous poorly defined bedding				
67.06											
	1.47	1.47	1.52	97		50	Shale, medium to dark grey with interbeds of siltstone to very fine grain sandstone, light grey, beds are .005 to .05 m thick				
68.58											
	0.98					48-59	Shale, dark grey, carbonaceous silty with some light grey silty beds .003m thick, siltstone beds are wispy				
Box17											

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 113 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.62	1.60	1.52	105			Shale, as above				
70.10											
	1.51	1.51	1.53	99		45	Shale, as above with 2 minor calcite filled fractures				
71.63											
	0.59					35	Shale, as above				
	0.23						Shale, medium to dark grey, silty, abundant irregular calcite filled fractures, appears to have been broken and recemented with calcite				
	0.76	1.58	1.52	104		49	Shale, dark grey, carbonaceous, silty, few very dark grey poorly defined carbonaceous beds, some iron staining along bedding				
73.15											
	0.36						Shale, as above				
Box 18											
	1.26	1.62	1.53	106			Shale, medium to dark grey, silty, slightly carbonaceous				
74.68											
	1.53	1.53	1.52	101			Sandstone, very fine to fine grain, light grey, with few silty zones also shaly in part				
76.20											
	1.42					44	Sandstone, fine grain, medium grey, with some dark grey siltstone beds, iron stains on joints, few minor calcite filled fractures				
Box 19											
	0.09	1.51	1.52	99			Sandstone, as above				
77.72											
	0.36						Sandstone, as above				
	0.52						Siltstone, dark grey, carbonaceous				
	0.65	1.53	1.59	96		47	Siltstone/Sandstone, medium to dark grey siltstone interbedded with light grey fine grain sandstone				
79.31											
	1.55	1.55	1.61	96		46	Siltstone/Sandstone, as above with some cross-bedding sandstone slightly calcareous ^s				

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 113 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.52						Sandstone, as above				
	0.12	1.44	1.53	94			Siltstone, medium to very dark grey, iron staining coaly beds, calcareous filled fractures, broken, slicked				
90.53											
	0.42						Siltstone, as above, broken stick				
	0.10						Shale, dark grey, silty, carbonaceous				
	0.68	1.20	1.52	79			Siltstone to very fine grain sandstone, sandstone is light grey, siltstone is medium grey, ripple bedded, some very thin coaly beds, iron stains on top				
92.05											
	0.23						Sandstone/Siltstone, as above				
	0.37					45	Shale, silty, dark grey with light grey silty bands, a few thin coaly stringers				
	0.52						Sandstone, medium grain, light grey matrix salt and pepper, abundant elongated coal wisps upto .05 m. length				
	0.39	1.51	1.52	99			Sandstone, as above with just a few coaly wisps				
93.57											
	0.37						Sandstone, medium to coarse grain, very light grey matrix with some poorly defined medium grey beds, 1 thin coaly stringer .005 m thick near base				
Box23											
	0.22						Sandstone, as above				
	0.92	1.51	1.53	99			Sandstone, light grey matrix, salt and pepper, some medium grey beds few elongated coaly wisps at top and base, fine to medium grain				
95.10											
	0.84					44	Sandstone as above coaly wisp at base				
	0.20						Shale, very dark grey, carbonaceous				
	0.49	1.53	1.52	101			Sandstone, medium grain, light grey, matrix salt and pepper, coaly wisps throughout, large Shale clast (.26 m) at base				

DIAMOND / CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 113 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
96.62											
	0.18						Sandstone, as above				
	0.09						Shale, very dark grey, carbonaceous				
	1.26	1.53	1.53	100			Sandstone, very light grey, matrix, salt and pepper some orange grains throughout, massive, slightly calcareous, medium to coarse grain.				
98.15 Box24											
	1.58	1.58	1.52	104		53	Sandstone, as above with some poorly defined medium grey beds				
99.67											
	1.59	1.59	1.52	105			Sandstone, as above				
101.19											
	0.51						Sandstone, as above broken stick in lower 1/2, some coal blebs, coarse grain at base, some iron staining				
	0.25						Shale, medium grey, silty				
	0.36						Interbedded very fine grain light grey Sandstone and medium grey silty shale, poorly bedded				
Box25											
	0.30	1.42	1.52	93			Sandstone/Shale, as above Shale medium to dark grey				
102.71											
	0.85						Shale, dark grey carbonaceous, some wispy calcite filled fractures, 1 .001 m calcite filled bedding fracture near base				
	0.67	1.52	1.53	99			Sandstone, very fine grain, medium to light grey, medium grey beds are poorly bedded				
104.24											
	0.21						Sandstone, as above predominantly medium to dark grey				
	0.47					51	Interbedded light and medium grey very fine grain Sandstone				

DIAMOND F CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 113 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.36						Sandstone, light grey matrix salt and pepper, fine to medium grain, some medium grey wispy beds, some cross-bedding				
	0.39	1.43	1.53	93			Sandstone, fine to very fine grain, medium to light grey, poorly bedded				
105.77											
	0.16						Sandstone, very fine grain, medium to dark grey, few wispy carbonaceous beds				
	0.75						Shale, dark grey, carbonaceous, plant fragments, silty, calcareous				
Box26											
	0.06						Shale, silty, medium grey, stick				
	0.47	1.44	1.52	95			Sandstone, very fine, medium to light grey, small scale crossbeds, poorly bedded, stick				
107.29											
	0.70					45	Sandstone, as above except medium bedding iron stain along fractures, stick				
	0.20						Shale, silty, gradational contact, medium grey stick, plant debris				
	0.26						Siltstone, interbedded very fine grain sandstone, medium to light grey, stick, medium bedding				
	Q.30	1.46	1.52	96			Sandstone, very fine grain, interbedded siltstone, medium bedding, stick, light and medium grey				
108.81											
	0.60						Sandstone, as above				
	0.30					73	Sandstone, very fine grain, medium bedding, light grey some iron stain small dark bands, finely laminated, stick, small scale cross-bedding, slick @ lower contact, iron stain				
	0.16						Shale, silty, dark grey, broken stick, grading to Siltstone				

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 111 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.16						Sandstone, very fine grain, medium to light grey, poorly bedded, stick, slick @ base iron stain				
							minute shale break				
110.34	0.18	1.41	1.53	92			Sandstone, as above				
Box27	0.45						Sandstone, fine, light grey, medium bed, stick				
	0.16						Sandstone, as above, fracture zone, iron stain, broken stick				
111.86	0.80	1.41	1.52	93			Shale, dark grey, with some coaly partings, broken stick, some silty intervals				
111.85	0.18						Shale, silty, carbonaceous, slicked at base				
	0.02						Coaly stringer, sheared, broken				
	0.37						Shale, with silty zones, carbonaceous, numerous coaly stringers, slicked in part				
	0.07	1.41	1.22	116			Coal, bright, with shale interbeds, sheared				
	0.28						Shale, silty, carbonaceous with plant fragments, slicked				
	0.18						Coal, dull with bright, broken, iron stained on cleat				
	0.11						Shale, carbonaceous, with numerous coaly stringers broken stick				
	0.20				112.86		Coal, dull with bright, iron stained on cleat	SEAM #9	112.85 112.87		
113.08	0.05						Coal, dull, broken stick				
	0.05						Shale, carbonaceous, sheared, iron stained				
	0.14						Coal, dull with bright, stick	189			
	0.22						Coal, bright with dull, broken stick				
	0.06						Coal, dull, broken stick				
	0.15	1.44	1.83	79			Coal, bright and dull, stick				
	0.11						Coal, dull, broken stick, iron stained, on cleats				

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 113 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.12						Coal, dull with bright, broken stick				
	0.04						Shale, carbonaceous, iron stained				
	0.25						Coal, dull and bright banded, broken stick				
	0.15						Coal, dull, broken stick				
	0.07						Coal, dull with bright, broken stick				
	0.03						Coal, dull, broken stick				
114.91											
	0.07						Coal, dull with bright, broken stick				
Box 28											
	0.08						Coal, dull with bright, stick, iron stained on cleat				
	0.04						Coal, bright, stick	189			
	0.18						Coal, dull, sheared, broken stick				
	0.07	1.23	1.52	81			Coal, dull and bright, stick				
	0.07						Coal, dull, broken stick				
	0.18				115.50		Shale, carbonaceous, broken stick		115.51		
	0.10						Shale, coaly (sampled by GOLDER)				
	0.08						Shale, very carbonaceous and coaly, iron stained on joint	190			
	0.08						Coal, dull, broken				
	0.06						Shale, carbonaceous with coaly stringers, iron stained on joint		116.09		
	0.07				116.10		Coal, dull with bright, broken stick, iron stained on joints				
	0.10						Coal, dull, broken stick	191			
	0.10						Coal, dull with bright, stick				
	0.02						Shale, carbonaceous with coaly stringers, stick				
116.43											
	0.15						Coal, shaly, slick, iron stained on joints, broken stick				
	0.04						Coal, dull, stick				
	0.14						Coal, dull and bright, stick				
	0.20						Coal, dull, stick				

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 113 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.23						Coal, dull, broken stick				
	0.04						Coal, sheared, dull				
	0.17						Coal, dull, broken stick, trace pyrite on cleat				
	0.16						Coal, dull, sheared, stick, trace pyrite on cleat				
	0.10	1.33	1.53	87			Coal, dull, broken stick				
	0.10						Coal, dull, broken stick				
117.95											
	0.04						Coa, bright, broken				
	0.05						Coal, dull, sheared, broken				
	0.02						Shale, carbonaceous, iron stained				
	0.20	1.32	1.52	87			Coal, dull, sheared, broken stick				
	0.15						Coal, dull with bright, broken				
	0.25						Coal, dull, broken stick				
	0.23						Coa, dull and bright, stick				
	0.26						Coal, dull, broken stick				
Box29											
	0.12						Coal, dull, broken stick	191			
119.48											
	0.14						Coal, dull and bright, stick				
	0.07						Coal, dull, stick				
	0.05						Coal, bright stick				
	0.18						Coal, dull, stick				
	0.08						Coal, dull and bright, stick				
	0.07	1.34	1.53	88			Coal, dull, broken stick				
	0.08						Coal, dull and bright, stick				
	0.12						Coal, dull with bright, broken stick				
	0.02						Shale, carbonaceous, coaly, slick				
	0.09						Coal, shaly, slicked, broken stick, iron stained on joint				
	0.10						Coal, dull, stick				
	0.14						Coal, dull, with bright, broken stick				
	0.20						Coal, dull, and bright, broken stick				

DIAMOND / CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 113 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.93	1.53	1.53	100			Sandstone, as above except no coal, siltstone near base				
128.63											
	1.41	1.41	1.52	93			Shale, dark grey, slightly silty near top, stick				
130.15											
	1.30						Shale, as above, except some silty sections				
	0.25	1.55	1.52	102			Siltstone, grading to very fine grain sandstone				
131.67											
	0.30						Sandstone, very fine grain, medium grey, small scale cross-beds some carbonaceous partings, stick				
	0.50						Sandstone, as above, fractured with iron staining due to weathering, broken stick				
Box32											
	0.06						Sandstone, as above, rather sharp contact between sandstone and iron stained sandstone				
	0.59					65	Sandstone, very fine - fine grain, medium-grey, small scale cross-bedding, laminar bedding, sediment deformation, with dark mineral bands, stick				
	0.04	1.49	1.53	97			Sandstone, as above, except highly weathered, iron stained, numerous calcite filled fractures some, slicks, broken				
133.2											
	0.58						Sandstone, as above				
	0.50	1.08	1.40	77		55	Sandstone, very fine grain, laminar and cross-beds, medium grey, broken stick, dark mineral bands, sharp contact with above weathered zone				
134.60											
	0.56						Sandstone, as above, stick, sediments deformation near base				
	0.56						Sandstone, as above, with carbonaceous partings, slightly iron stained, small lenses of medium grain sand, sediments deformation dominant.				

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 113 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.45	1.57	1.58	99			Sandstone, very fine grain to silty, medium grey, broken stick, small amount of weathering along fracture, poorly bedded, more weathering near base				
136.13	0.56						Sandstone, as above, laminar bedding, broken stick				
Box33	0.29						Sandstone, as above, weathering along fractures, small medium grain lenses, cross-bedding				
	0.15					52	Sandstone-Shale transition zone, soft sediment deformation, stick				
	0.37						Shale, dark grey, poorly bedded, stick				
	0.13	1.50	1.59	94			Shale, as above with slick, broken				
137.77	0.55						Shale, dark grey, with plant matter, poorly bedded broken stick, weathered along fractures				
	0.20						Shale, dark grey, highly carbonaceous with coal partings broken stick and broken near bottom				
	0.56	1.31	1.49	88	138.38		Coal, dull, stick and broken stick (10B)	183			
139.25	0.58	0.86	1.19	72	139.12		Shale, carbonaceous with coal partings, iron staining along fracture, broken at top, broken stick near bottom, coaly near base	184			
	0.28				139.75		Coal, powdery and rubble				
140.45	0.50						Coal, dull with bright bands, broken and broken stick				
Box34	0.12	1.22	1.40	87			Coal, dull, broken stick	185			
	0.38						Coal, dull with bright bands, stick				
	0.22						Coal, powder and broken				
141.85	0.03						Shale, dark grey, slightly carbonaceous - broken				
	0.41						Coal, dull with bright bands, broken stick and broken				

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 113 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.63					48	Shale, silty and sandstone finely interbed, stick				
	0.48	1.11	1.04	107			Shale, dark grey, with small sandstone bands				
153.01											
	0.91						Shale, dark grey, poorly bedded, stick				
	0.16						Shale, as above, broken				
Box37											
	0.35	1.42	1.52	93			Shale, carbonaceous, dark grey to black, coal stringers				
154.53											
	0.10				154.65		Rubble coal and minor shale (partially caved Mat.)	SEAM #10A	154.53		
	0.01						Shale, light grey				
	0.06						Coal, dull, stick				
	0.44	1.31	1.53	86%			Coal, dull with bright bands, broken stick				
	0.20						Coal, dull, broken stick and broken				
	0.04						Coal, dull with bright bands				
	0.05						Coal, powder				
	0.07						Coal, dull, stick				
	0.34						Coal, dull with bright bands, stick				
156.06									182		
	0.18						Coal, dull with bright bands, stick				
	0.33						Coal, dull, broken stick				
	0.11						Coal, dull with bright bands, broken				
	0.02	1.44	1.52	95			Shale, medium grey, carbonaceous				
	0.41						Coal, dull, broken stick and broken				
	0.39						Coal, dull with bright bands, broken stick				
157.58											
	0.35						Coal, dull with bright bands, broken stick and broken				
	0.025						Coal, sandy				
	0.20	1.45	1.53	95	158.14		Sandstone, medium grain, medium grey, coal wisps near top		157.98		

COAL-BEARING MD.

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC113 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
Box38	0.88						Sandstone, medium grain, salt and pepper, well sorted, massive				
159.11	1.52	1.52	1.52	100			Sandstone, as above, disseminated pyrite and minor pebbles, stick				
160.63	1.49	1.49	1.52	98		45	Sandstone, as above, some dark mineral bands, some fracturing near base, stick				
162.15	0.38						Sandstone, as above, iron staining along fractures broken stick, small pebble lense at top				
Box39	1.14	1.52	1.53	99			Sandstone, as above, numerous pebbly lenses, iron stained along fractures, small carbonaceous layer, stick				
163.68	1.1					52	Sandstone, medium grey, medium to fien grain, finely laminated dark, light bands, stick, lenses of medium grain, sandstone near base				
	0.38	1.48	1.52	97			Sandstone, medium to coarse with pebbles, carbonaceous layers, massive to poorly bedded, salt and pepper				
165.20	1.68						Sandstone, as above, stick				
Box40	0.18						Sandstone, medlum grain, medium-dark grey, carbonaceous bedding indistinct slicked base				
	0.015						Shale, dark grey-black, carbonaceous				
	0.02					46	Sandstone, fine to medium grain				
	0.02						Shale, dark grey, black, carbonaceous, slicked base				

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 113 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.26						Sandstone/conglomerate, medium grain sandstone grading downward to coarse grain sandstone, grading to pebble conglomerate at base, erosional contact with underline unit				
	0.75	2.925	3.05	96			Sandstone, fine-medium grain becoming coarse with occasional pebbles at base, iron staining at joints				
168.25											
	0.88	0.88	1.4	63			Sandstone, medium-fine grain confined toward base				
169.65											
	0.16						Shale, dark grey-black, carbonaceous with coaly wisps grading into underlining sandstone				
	1.38	1.54	1.59	97			Sandstone, fine-medium grain, medium-dark grey, carbonaceous massive to poorly laminated occasional coaly wisps				
171.24											
	0.38						Sandstone, as above				
Box41											
	1.16	1.54	1.58	97			Sandstone, as above				
172.82											
	1.52	1.52	1.53	99			Sandstone, as above				
174.35											
	0.90						Sandstone, as above, abrupt below				
	0.19						Shale, black, very carbonaceous, with thin pyrite laminae, with slicks broken stick				
	0.07						Coal, bright with dull, stick				
	0.15	1.50	1.52	99			Coal, dull with bright, broken stick to broken				
	0.19						Shale, coaly, black, with small pyrite grains throughout				
175.87											
	0.09						Coal, shaly with pyrite grains				
	0.05						Coal, shaly, and sandy, powder				
Box42											

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 113 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	1.43	1.57	1.52	103			Sandstone, medium grain, medium-dark grey, carbonaceous, massive with occasional coal wisps				
177.39											
	1.51	1.51	1.53	99			Sandstone, as above				
178.92											
	0.78						Sandstone, as above, burrowed				
	0.63					51	Sandstone, as above, lacking burrows, faint cross-bedding present				
Box43											
	.135	1.55	1.52	102			Sandstone, as above, stick, no coal wisps				
180.44											
	1.51	1.51	1.53	99			Sandstone, as above, stick				
181.97											
	1.56	1.56	1.52	103		45	Sandstone, as above, with pyrite along fractures, faint cross-bedding				
183.49											
	1.04						Sandstone, as above, carbonaceous, fragments along fracture cross-bedding present near top, dark mineral banding near bottom				
Box44											
	0.38						Sandstone, as above, dark mineral banding				
	0.05	1.47	1.52	97			Sandstone, as above, except dark grey, sharp contact with sandstone above				
185.01											
	0.04						Sandstone, as above, sharp contact with sandstone below				
	1.30	1.51	1.53	99			Sandstone, as above, faint cross-bedding, coaly fragments along fracture, dark mineral bands grading to pebbly near bottom				
	0.11						Sandstone, as above, few pebbles, slightly coarser grain				

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 113 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.06						Sandstone, as above, except dark grey-black, numerous carbonaceous stringers, carbonaceous fragments along fracture, fracture has polished surface				
186.54											
	0.23						Sandstone, as above, grading to larger pebbles near bottom				
	0.13						Sandstone, as above, very pebbly				
	0.04						Shale, silty, gradational, contact with sandstone above dark grey, black, one thin sandstone band, fractured with slick and pyrite along fracture, broken				
	0.17						Sandstone, as above, finer near top, shaly filling along fracture, slightly pyritic near top				
	0.67					56	Sandstone, as above, pebbly near bottom				
	0.12						Sandstone, as above, nine carbonaceous and coaly fractures, slick				
	0.13						Sandstone, as above, slightly pebbly and cross-bedded near bottom, one shale clast rip up from below				
	0.03						Conglomerate - lensed in, gradational contact above sharp contact below				
	0.13						Sandstone, fine-medium grain, medium-dark grey many carbonaceous, coaly slick fractures				
	0.10						Sandstone, as above, grading to pebbly near bottom				
	0.02	2.06	2.13	97			Sandstone, as above, very pebbly, sharp irregular erosional contact below				
	0.29						Sandstone, fine-medium grain, medium-dark grey, numerous thin dark mineral bands, cross-bedding near bottom				
188.67											
	0.18						Sandstone, as above, more numerous dark mineral bands carbonaceous and slick along fracture				

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 113 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.04						Sandstone, as above, broken				
	0.02						Sandstone, sharp contact below, silty				
	0.01						Sandstone, as above, not silty				
	0.01						Shale, black				
	0.04						Sandstone, dark grey, fine-medium grain, slick				
	0.04						Shale, black				
	0.01						Sandstone, as above				
	0.05						Shale, black, slick, sharp irregular contact below				
	0.11	1.47	1.52	97			Conglomerate, medium sized pebbles, shale clast near middle				
	0.21						Sandstone, fine-medium grain, medium grey coal wisps				
	0.04						Shale, black, slick				
	0.03						Conglomerate, grading to Sandstone near bottom				
	0.40						Sandstone, as above, faint cross-bedding near bottom				
Box 46											
	0.46					35	Sandstone, as above				
193.24											
	0.15						Sandstone, as above, medium-coarse grain				
	0.21						Sandstone, as above, coarse grain,				
	0.57	1.55	1.68	92			Sandstone, medium grain, coarser near top, carbonaceous and slick conglomerate fractures, some cross-bedding				
	0.30						Sandstone, as above, grading to conglomerate near bottom				
	0.04						Conglomerate, sharp contact on bottom				
	0.17						Sandstone, coarse, pebbly, pyrite along bottom contact				
	0.11						Shale, black, silty, some calcareous along bottom contact				
194.92											
	0.21						Shale, as above, sharp contact below				

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 113 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	1.61	1.61	1.65	98			Sandstone, as above, with dark mineral band near bottom				
209.34											
	1.08	1.58	1.58	100			Sandstone, as above, cross-bedding near middle, carbonaceous slick on fracture				
Box50											
	0.08						Shale, sandy, broken rubble				
	0.42					54	Sandstone, as above				
210.92											
	0.55						Sandstone, as above, few coaly wisps, carbonaceous slick on fracture				
	0.20						Shale, silty, black, calcareous on upper contact				
	0.20						Sandstone, as above				
	0.05						Shale, silty, dark grey-black				
	0.93	1.93	1.53	126			Sandstone, as above				
212.45											
	1.02						Sandstone, as above				
	0.18	1.45	1.52	95			Sandstone, fine grain, cross-bedding near bottom slick on upper contact				
	0.25					57	Sandstone, fine-medium grain, dark mineral bands				
213.97											
	0.73						Sandstone, as above, medium grey				
Box51											
	0.24	1.59	1.52	105			Sandstone, as above				
	0.62						Sandstone, as above, medium-dark grey				
215.49											
	1.50	1.5	1.53	98			Sandstone, as above				
217.02											
	0.45						Sandstone, as above, lower contact pyritic				
	0.10	1.53	1.52	101			Sandstone, as above, very pyritic, lower contact pyritic				
	0.975						Sandstone, as above, no pyrite, one thin pebble' ban in middle				

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 113 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
218.54											
	0.28	1.48	1.53	96			Sandstone, as above				
	1.195					52	Sandstone, as above				
220.07											
	1.51	1.51	1.52	99			Sandstone, as above, calcareous filling along fractures numerous long fractures				
221.59											
	1.50	1.50	1.52	99			Sandstone, as above, no calcareous on fractures				
223.11											
	0.16						Sandstone, as above, no calcareous filling on fractures				
Box53											
	1.39	1.55	1.53	101			Sandstone, as above, calcareous on fractures				
224.64											
	1.45						Sandstone, as above				
	0.025	1.48	1.52	97			Shale, black, pyrite specks				
226.16											
	0.12	1.56	1.53	102			Shale, as above, sharp contact on bottom				
	1.32						Sandstone, as above, cross-bedding				
Box54											
	0.12						Sandstone, as above				
227.69											
	1.48	1.48	1.52	97			Sandstone, as above, no cross-bedding				
229.21											
	1.53	1.53	1.52	101			Sandstone, as above, cross-bedding				
230.73											
	1.22						Sandstone, as above				
Box55											
	0.28	1.50	1.53	98		60	Sandstone, medium grey, fine grain, laminar bedding stick				
232.26											
	1.58	1.58	1.52	104			Sandstone, as above, minor shale blebs, calcite on fracture				

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 113 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
233.7B											
	0.75						Sandstone, as above				
	0.22						Shale split, dark grey some carbonaceous, broken stickfinely banded, with thin sandstone's				
	0.46	1.43	1.53	93			Sandstone, as above				
235.31											
	0.73						Sandstone, as above, some pyrite along fractues				
	0.19						Sandstone, Shale, finely interbedded (80% Sandstone)				
Box56											
	0.54	1.46	1.52	96		65	Sandstone, Shale, thickly interbedded (50% Shale) (Sandstone - fine grain) gradational contact above				
236.8B											
	1.31						Sandstone, Shale, as above, burrows near bottom				
	0.22	1.53	1.52	101			Sandstone, medium grey, fine grain, dark mineral banding calcite filled fracture				
238.35											
	1.56	1.56	1.53	102			Sandstone, as above, banding less defined, near base				
239.8B											
	0.56					56	Sandstone, as above				
Box57											
	0.94	1.50	1.52	99			Sandstone, poorly bedded, fine grain, calcite filled fractures medium grey, stick				
241.4D											
	0.25						Sandstone, as above				
	0.38						Sandstone, fine grain, thickly interbedded shale (.04) (70% Sandstone)				
	0.67						Shale split, gradual contact above and below broken stick, dark grey, fine Sandstone (10%)				
	0.18	1.48	1.53	97			Sandstone, finely banded, with shale (5%)				
242.9B											

PASSAGE
 MUDSE
 MB
 BEAS

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 113 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.74						Shale, as above				
box75											
	0.78	1.52	1.52	100			Shale, as above				
317.60											
	1.45	1.45	1.53	95			Shale, as above				
319.13											
	1.51	1.51	1.52	99			Shale, as above				
320.65											
	0.39						Shale, as above				
Box76											
	1.10	1.49	1.52	98			Shale, as above				
322.17											
	1.46	1.46	1.53	95			Shale, as above				
323.70											
	1.53	1.53	1.52	101			Shale, as above				
325.22											
Box77											
	1.48	1.48	1.53	97			Shale, as above				
326.75											
	1.41	1.41	1.52	93			Shale, as above				
328.27											
	1.25						Shale, as above				
Box78											
	0.33	1.58	1.52	104			Shale, as above				
329.79											
	1.56	1.56	1.53	102			Shale, as above				
331.32											
	0.10						Shale, as above				
	0.11						Shale, badly crumbled, slicks, weathered (FAULT?)				
	1.18	1.39	1.52	91			Shale, dary grey to black, slightly silty, trace plant fragments, slightly calcareous				
332.84							END OF HOLE T.D.				

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 114 SHEET No: 1

DATE BEGUN: _____ DEPTH: _____ BEARING: _____ U.T.M. _____

DATE FINISHED: _____ ELEV. COLLAR: _____ TOTAL DEPTH: _____ COAL LICENSE: _____

LAT.: _____ HOLE ANGLE: _____ LOGGED BY: _____ CORE SIZE: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No	JOINTING	HARDNESS	FRACT. FREQ.
Box 1											
17.07	0.03						Coal, broken to powdered shaly				
	0.03						Shale, black carbonaceous fissile broken				
	0.86	0.92	1.83	50			Shale, silty, carbonaceous, medium-dark grey with occasional coal stringers and plant fragments, slickes, iron staining broken to broken stick, bedding indistinct				
18.9	1.17	1.17	1.52	77			Shale, as above, broken stick				
20.42	1.39	1.39	1.52	91			Shale, as above becoming silty to base rare coal stringers				
21.95	0.13						Shale, as above				
Box 2											
	0.42						Shale, as above, slightly calcareous				
	0.07						Shale, black very carbonaceous, with abundant plant fragments and calcareous veins throughout				
	1.35						Shale, very silty medium-dark grey, calcareous in part iron staining on fracture and joints bedding indistinct broken stick				
	0.42					80	Shale/Siltstone interlaminated calcareous				
	0.35						Shale, silty medium grey weathered orange/brown in places, carbonaceous				
	0.1	2.84	3.04	93			Shale, as above, broken				
24.99	0.56						Shale, silty, medium-dark grey with calcareous filled fractures, carbonaceous				
	0.22						Shale, dark grey to black slightly silty, carbonaceous, fissile, broken				

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 114 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.30						Siltstone, medium grey slightly carbonaceous with small orange concretions				
Box 3											
	0.47	1.55	1.53	101		80	Siltstone, as above, hacking concretions, calcareous bedding slightly disturbed				
26.52											
	0.2						Sandstone/Siltstone, interlaminated very fine grain sandstone and carbonaceous siltstone, slightly disturbed ripple bedding				
	0.08						Sandstone/Siltstone, as above, broken				
	0.73						Sandstone/Siltstone, as above, broken stick weathered a faint orange/brown				
	0.22	1.23	1.52	81			Sandstone/Siltstone, as above intensely weathered orange/brown soft and broken				
28.04											
	0.15						Coal, shaly, fissile, broken to powdery				
	0.14						Shale, dark grey, carbonaceous with plant fragments iron staining				
	0.10						Shale, coaly black, fissile broken to powder				
	0.30						Shale, medium-dark grey, clay rich, carbonaceous iron staining on fractures, broken stick				
	0.05						Shale, as above, no carbonaceous powder				
	0.12						Coal, bright with dull, broken stick				
	0.08						Coal, powder, bright with dull				
	0.16	1.1	1.53	72			Shale, silty medium-dark grey, carbonaceous, with plant fragments broken stick				
29.57											
	0.72					80	Sandstone/Shale, interlaminated, light-medium grey carbonaceous, slightly disturbed bedding, broken to broken stick				

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 114 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
Box4	0.31						Sandstone, fine grain, medium grey, thin interbeds of shale, irregular bed, carbonaceous wisps, calcareous filled fragments, broken stick, iron stain				
	0.14	1.17	1.52	77			Sandstone, as above, rubble				
31.09	0.40						Sandstone, fine-medium grain, iron stain on fracture and slick, shale and carbonaceous wisps, broken to rubble, calcareous, filled fracture				
	0.27						Sandstone, as above, broken stick, small scale cross-bedding and irregular bed				
	0.20						Sandstone, as above, broken and rubble				
	0.25	1.12	1.52	74			Sandstone, as above, broken stick				
32.61	0.77						Interbedded Sandstone and Shale, fine grain, irregular bed, some small scale cross-bedding, Shale, silty, dark grey, bioturbated, coal wisps, broken stick				
	0.16						Sandstone/Shale, as above, broken and rubble				
	0.10	1.03	1.53	67			Sandstone/Shale, as above, broken stick				
34.14	0.63						Sandstone/Shale, as above, broken stick				
Box5	0.93	1.56	1.52	103		60	Interbedded Shale, Siltstone, Sandstone, predominately Siltstone, irregular bedding, calcareous filled fractures, small displacements along sandstone, bioturbated, coal wisps, broken stick				
35.66	0:65						Sandstone/Shale, as above, broken stick, iron stain near top				
	0.20						Sandstone, medium grain, shaly, carbonaceous at bottom				
	0.08						Shale, silty, dark grey, broken				
	0.20						Sandstone, medium grain, carbonaceous, coal wisps,				

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 114 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
37.19	0.13	1.26	1.53	82			Sandstone, as above, broken and rubble				
	0.07						Sandstone, as above, rubble				
	0.32					62	Siltstone and Sandstone, interbedded, Sandstone fine grain, medium grey, Siltstone, dark grey, disturbed bedding, calcareous filled fractures, broken stick				
	0.44					62	Siltstone and Sandstone, as above, stick, calcareous filled fractures, showing displacement of 0.02				
	0.12						Siltstone and Sandstone, as above, numerous calcareous filled fractures, forming breccia, iron stain, broken, (FAULT)				
	0.23	1.18	1.52	78		0	Siltstone and Sandstone, as above, broken stick				
	0.7						Siltstone, and Sandstone, as above, stick Shale, silty, minor sandstone interbedded, calcareous filled fractures (increasing frequency down) slick and iron stain in upper half				
40.23	0.09	1.50	1.52				Sandstone and Shale, interbedded, Sandstone fine grain, irregular bed, dark grey				
	0.16						Sandstone and Shale, as above, calcareous filled fractures, iron stain				
	0.05						Sandstone and Shale, as above, rubble				
	1.22	1.43	1.53	93			Siltstone, interbedded shaley and sandy, dark grey, broken stick				
41.76	0.54						Siltstone, as above				
	0.26						Rubble				
Box 7		0.56	1.52	89			Sandstone and Shale, interbedded, Sandstone fine grain, medium grey, irregular bed, Shale, dark grey, calcareous filled fracture				

TYPE
DESCRIBE
M.S.S. 11/16
-222

DIAMOND DRILL CORE LOG
(ALL ANGLES MEAS. FROM CORE AXIS)

HOLE No: LC 114 SHEET No: 4A

DATE BEGUN: _____ DEPTH: _____ BEARING: _____ U.T.M. _____

DATE FINISHED: _____ ELEV. COLLAR: _____ TOTAL DEPTH: _____ COAL LICENSE: _____

LAT.: _____ HOLE ANGLE: _____ LOGGED BY: _____ CORE SIZE: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
38.71											
	0.45						Siltstone, and Sandstone, as above, stick				
Box6											
	0.22						Siltstone, and Sandstone, as above, stick				
	0.74						Shale, silty, minor sandstone interbeds, calcareous filled fractures (increasing frequency down) slick and iron stain in lower half, broken stick				
	0.09	1.50	1.52	99			Sandstone and Shale, interbedded, Sandstone fine grain, irregular bed, Shale dark grey				
40.23											
	0.16						Sandstone and Shale, as above, calcareous filled fracture, iron stain				
	0.05						Sandstone and Shale, as above, rubble				
	1.22	1.43	1.53	93			Siltstone, iterbedded shaley and sandy, dark grey broken stick				
41.76											
	0.54						Siltstone, as above				
	0.26						Rubble				
Box7											
	0.56	1.36	1.52	89			Sandstone and Shale, interbedded, Sandstone fine grain medium grey, irregular bed, Shale, silty, dark grey, calcareous filled fracture				

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC- 114 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
43.28	1.49					77	Shale and Sandstone, as above, bioturbated sandstone stick and broken stick				
	0.08	1.57	1.53	103			Sandstone, fine-medium grain, iron stain				
44.81	0.15						Sandstone, broken, some iron stain				
	0.84						Sandstone, and Siltstone, interbedded, irregular bed minor coal wisps and calcareous filled fractures, iron stain at bottom, stick and broken stick				
	0.05						Rubble				
	0.06						Shale, silty, dark grey, slick				
	0.24						Sandstone with thin shale interbeds, iron stain and slick on top, broken stick broken				
	0.26	1.60	1.52	105		65	Sandstone, with shale laminae, iron stained calcareous in fracture				
46.33	0.70					65	Sandstone, as above, stick				
Box 8	0.62					60	Sandstone and Siltstone, interbedded, medium-dark grey, irregular bed, calcareous filled fracture				
	0.13	1.45	1.52	95			Sandstone with siltstone, interbeds, disturbed bed				
47.85	0.05						Sandstone, redrilled				
	0.27					55	Sandstone, fine grain, Shale, laminae, calcareous filled fracture, broken stick				
	0.05						Sandstone, rubble				
	0.08						Sandstone with shale laminae, calcareous, filled fracture, at top				
	0.72						Sandstone, fine grain, with Shale interbeds and laminae, calcareous filled fracture, small scale cross-bedding				

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 114 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.20						Sandstone, as above, fault, disturbed bed, slick, calcareous, filled fracture				
	0.12	1.49	1.53	97		57	Sandstone, fine grain with shale laminae, irregular bed, calcareous filled fracture, carbonaceous matter on slick				
49.38											
	0.11						Sandstone, rubble				
	1.26					60	Sandstone, fine grain, siltstone interbeds and laminae, coal wisps, several calcareous filled fractures, iron stain at top and bottom, broken stick				
	0.16	1.53	1.52	101			Sandstone, broken and rubble				
50.90											
Box 9											
	0.37						Sandstone and Shale, interbed. Sandstone fine grain irregular bed, bioturbated, iron stain				
	0.21						Shale, dark grey, coal wisps, calcareous filled fracture, disturbed bed. (FAULT?)				
	0.06						Rubble				
	0.10						Sandstone, fine medium grain, carbonaceous, coal wisps				
	0.07						Rubble				
	0.20						Sandstone, fine grain, siltstone interbeds, coal wisps disturbed bed (soft-sediment deformation)				
	0.36	1.37	1.53	90			Sandstone and Siltstone, dark grey, massive, fractures with calcareous filling and iron stain				
52.43											
	0.67						Siltstone, dark grey, calcareous filled fracture, broken stick				
	0.25						Sandstone, rubble				
	0.58	1.50	1.52	99		75	Sandstone, fine grain, Shale laminae, small scalee cross-bedding, calcareous filled fracture				
53.95											
	0.13						Siltstone, dark grey, broken stick				

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 114 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.10						Sandstone, fine grain, with Shale laminae, light grey gradational lower contact				
	0.45						Sandstone, dark grey, shaley, gradual lower contact				
	0.29						Sandstone, fine grain, with Shale laminae, calcareous filled fracture, carbonaceous stringers at bottom				
Box 10											
	0.13						Sandstone, fine-medium grain, medium grey, slightly weathered, with carbonaceous laminae				
	0.08						Shale, silty, dark grey, carbonaceous abrupt below				
	0.04	1.22	1.52	80			Fault gouge, sheared slab as above, Clay-like (POSSIBLE FAULT - 25°)				
55.47											
	0.64						Sandstone, as above, low angle cross-bedding, broken stick, abrupt below				
	0.10						Shale, silty, dark grey, carbonaceous				
	0.17						Sandstone, as above				
	0.26	1.17	1.53	76			Shale, silty, dark grey, carbonaceous with orange concretions, calcareous filled fractures				
57.0											
	1.06						Siltstone, medium-dark grey, carbonaceous, mottled, bedding disturbed to indistinct, gradational below broken stick				
	0.44	1.50	1.52	99			Shale, silty, dark grey, carbonaceous, broken stick				
58.52											
	0.75						Shale, as above, broken stick, abundant iron staining				
Box 11											
	0.63	1.38	1.52	91			Shale, as above, broken stick				
60.04											
	0.54						Shale, as above, broken with intense iron staining				
	0.14						Shale, as above, stick, gradational below				
	0.43					72	Sandstone, fine-medium grain, medium grey, slightly weathered, cross-bedded, gradational below				

DIAMOND D CORE LOG
(ALL ANGLES MEAS. FROM CORE AXIS)

HOLE No: LC 114 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.43	1.54	1.53	101			Shale, silty, medium-dark grey, carbonaceous, with occasional sandy wisps, broken stick				
61.57											
	0.80	0.80	0.91	88			Shale, as above				
62.48											
	0.77						Shale, as above, lacking sandstone wisps				
Box12											
	0.12						Shale, as above				
	0.10	1.21	1.52	80			Shale, as above, broken-powder				
	0.22						Shale, as above, broken				
64.0											
	0.92	1.00	1.53	65			Shale, slightly silty, dark grey-black, carbonaceous				
	0.08						Coal/Shale/Clay (mud?) intermixed				
65.53											
	0.43	0.43	1.22	35			Coal, dull with bright with pyrite specks broken-powder				
66.75											
	0.31	0.31	0.31	100			Coal/Shale, interbedded and interlaminated, broken				
67.06											
	0.14						Shale, black, carbonaceous, broken, rubble				
	0.15						Shale, as above, broken stick				
	0.11	0.73	1.22	60			Coal, dull with bright, stick				
	0.33						Coal/Shale, broken to powder, intermixed				
68.28											
	0.28	0.54	1.82	30			Shale, black, carbonaceous, coaly, broken				
Box13											
	0.26						Shale, as above				
70.10											
	0.43	0.43	1.53	28			Shale/Coal, intermixed, powdered				
71.63											
	0.25						Shale, as above				

SEAM #6?

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 114 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.21	0.46	1.22	38			Shale, silty, medium-dark grey, carbonaceous, abundant iron staining, broken				
72.85	0.28						Shale, as above				
	0.20	0.55	1.22	45			Shale, black, carbonaceous, coaly, intensely, weathered, powdered				
	0.07						Shale, silty, medium-dark grey, carbonaceous, iron staining				
74.07	0.82						Shale, as above, broken stick				
	0.23	1.05	1.52	69			Shale, dark grey-black, carbonaceous coaly, broken to powder				
75.59	0.22	0.56	2.22	25			Shale, as above				
	0.34						Shale, as above				
77.81	0.28	0.91	0.52	175			Shale, as above, with intense iron staining, broken				
	0.63					70	Sandstone, fine-medium grain, medium-dark grey, slightly weathered, interlaminated with carbonaceous laminae, ripple cross-bedding, broken stick				
78.33	0.49	0.49	1.53	32			Shale, silty, medium-dark grey, carbonaceous, abundant iron staining, broken to powdered				
79.86	0.50	0.50	1.22	41			Shale, as above with .05 crushed coal in middle				
81.08	0.46	0.46	0.61	75			Shale, as above				
81.69											
Box15	0.55	0.55	0.61	90			Shale, dark grey, silty, carbonaceous, abundant iron staining, broken				

DIAMOND D CORE LOG
(ALL ANGLES MEAS. FROM CORE AXIS)

HOLE No: LC 114 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.98	0.98	1.52	64			Shale, as above, interbedded with coaly shale, broken stick to broken to powder, slick (POSSIBLE FAULT ZONE???)				
95.10	0.85					45	Shale, dark grey, silty, with silty laminae through-out, slick, slightly calcareous				
	0.20	1.14	1.52	75			Shale, coaly, black, broken to powdered				
	0.09					42	Shale, dark grey, silty, slightly calcareous				
96.62	0.68					67	Shale, dark grey, black, carbonaceous, slightly silty with coal filled inclusions slicks, broken stick				
Box19	0.29	0.97	1.53	63		78	Shale, medium to dark grey, carbonaceous, slightly silty, with three siltstone bands (.01 m) at top, trace plant fragments, few coaly wisps at top				
98.15	0.61						Shale, dark grey to black, carbonaceous, numerous coaly wisps and stringers, few sticks, pyrite discs on slicks				
	0.06					99.22	Coal, dull with bright, powder SEAM #7	78.76			
	0.04						Coal, dull, powder				
	0.10						Coal, dull with bright, powder				
	0.11	0.92	1.52	61			Coal, dull, powder				
99.67	0.11						Coal, dull with bright, broken stick	186			
	0.05						Shale, coaly, broken stick				
	0.07						Coal, dull with bright, broken stick				
	0.09						Coal, dull, broken				
	0.10						Coal, dull, powder				
	0.25						Coal, dull, broken stick				
	0.05						Coal, dull, with bright, broken stick				
	0.08						Coal, dull, with bright, broken to powder				
										100.23	

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 114 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.16	0.96	1.22	79	100.80		Shale, carbonaceous, slick, broken stick				
100.89	0.07						Shale, as above, broken stuff?				
	0.15						Shale, black carbonaceous, slick with pyrite stain on slick	187			
	0.05						Coal, dull with bright, stick				
	0.05						Shale, carbonaceous, broken, slicked		191.21		
	0.18				101.48		Coal, dull, powder				
	0.09						Coal, dull with bright, some pyrite stains, stick	188			
	0.10						Coal, dull with bright, broken to powder				
	0.03						Shale, coaly, broken stick				
	0.06						Coal, dull with bright, powder				
	0.05						Coal, dull, broken stick				
	0.09						Shale, coaly, broken stick				
	0.04						Coal, dull with bright, broken				
	0.06	1.02	1.52	67			Shale, coaly, broken	188			
Box20											
102.41	0.07						Shale, coaly, with some pyrite stains, stick				
	0.05						Coal, dull with bright, broken stick				
	0.05						Shale, coaly, broken stick				
	0.04						Coal, dull, broken				
	0.07						Coal, dull, shaley, broken				
	0.29	0.57	1.22	47			Coal, dull with bright, trace pyrite stains, broken stick				
103.63											
	0.05						Shale, carbonaceous, with plant fragments, broken stick				
	0.04						Coal, dull, broken stick				
	0.03						Shale, carbonaceous, coaly broken stick				
	0.03						Coal, dull, broken stick				
					105.41				104.37		

DIAMOND D CORE LOG
(ALL ANGLES MEAS. TO FROM CORE AXIS)

HOLE No: LC 114 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.18	0.33	0.92	36			Shale, dark grey to black, carbonaceous, slicked with pyrite stains on slicks, broken stick				
104.55	0.22						Shale, dark grey to black, carbonaceous, few coaly wisps at base, 1 minor calcite filled fracture at base, broken stick				
	0.94	1.16	1.52	76			Shale, medium to dark grey, silty, slightly carbonaceous with trace plant fragments, 2 minor calcite fractures near base				
106.07	1.13	1.13	1.22	93			Shale, silty, medium grey, slightly calcareous at top, with calcite vein (.005 m) near top, stick, minor calcite filled fractures throughout				
107.29	0.29						Shale, as above				
Box21	1.34	1.63	1.83	89			Shale, with interbedded Siltstone in middle, medium to dark grey, carbonaceous at base, with trace plant fragments, some disturbed bedding, some iron staining along joints at base				
109.12	1.54	1.54	1.52	101			Shale, as above, no siltstone, more carbonaceous at base				
110.64	0.89						Shale, as above, slicks near top				
Box22	0.11						Shale, as above				
	0.15						Shale, dark grey to black, abundant orange red weathering, broken to powder				
	0.17						Shale, medium grey, slightly carbonaceous, with many minor calcite filled fractures, iron staining along fractures, stick				

DIAMOND DRILL CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 114 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.13	1.45	1.83	79			Shale, as above, broken to powder				
112.47											
	1.50	1.50	2.44	61			Shale, medium to dark grey, silty, slightly carbonaceous abundant calcite filled fractures and veins, iron staining throughout, broken near base				
114.91											
	0.26						Shale, as above, no calcite				
	1.27	1.53	1.52	101			Shale, medium to dark grey, carbonaceous, plant fragments, slightly silty, fairly homogeneous				
116.48 Box23											
	1.56	1.56	1.53	102			Shale, medium-dark grey, carbonaceous, slightly silty broken at top, iron stain on fractures, fairly homogeneous				
117.96											
	1.45	1.45	1.50	97			Shale, as above, with plant fragments and few minor calcite filled fractures throughout				
119.46											
	0.93						Shale, with some interbedded siltstone (.005 - .01 m thick) minor calcite filled fractures throughout, slightly carbonaceous, slightly silty, carbonaceous plant fragments, silty towards base				
	0.27						Predominantly Shale with some interbedded siltstone and very fine grain sandstone (calcareous), numerous calcite filled fractures at top, ripple and cross-bedding				
Box24											
	0.41	1.61	1.55	104			Shale/Siltstone/Sandstone as above				
121.01											
	0.77						Shale/Siltstone/Sandstone, as above, with iron staining on fractures at base, abrupt below				

DIAMOND D CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 114 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.60	1.63	1.52	107			Shale, medium to dark grey, carbonaceous with plant fragments, silty, one minor calcite filled fracture in middle.				
139.29											
	0.90						Shale, as above, becomes more silty at base				
	0.58	1.48	1.53	97			Interbedded silty, carbonaceous Shale and Siltstone Siltstone is slightly calcareous, trace plant fragments, iron staining along joint near base, some cross-bed, some disturbed beds at base				
140.82											
	0.10						Shale, Siltstone, as above				
	0.20						Shale, dark grey to black, carbonaceous with plant fragments, slightly silty, one minor calcite filled fracture at top				
Box29											
	1.27	1.57	1.52	103			Shale, as above, with some very silty bands .005 m. thick in middle, one minor calcite filled fracture near base, iron staining on joint at base				
142.34											
	1.51	1.51	1.53	99			Shale, as above, ironstaining on joints				
143.87											
	1.41	1.41	1.49	95			Shale, as above				
Box30 box3											
145.36											
	1.52	1.52	1.55	98			Shale, as above, 1 slick at top with some calcite in fill.				
146.91											
	1.52	1.52	1.53	99			Shale, as above with some calcite veins .002 m thick near top silty calcareous at becoming more silty and very calcareous at base				
148.44											
	1.10						Shale, as above, not calcareous, 1 calcite filled				

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 114 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
Box31											
	0.30						Shale, medium grey, very silty, trace plant fragments, transitional below				
	0.12	1.52	1.52	100			Siltstone, light to medium grey, trace plant fragments, massive				
149.96											
	1.57	1.57	1.53	103			Siltstone, as above with few carbonaceous Shale bands .01-.02 m thick, throughout				
151.49											
	1.40	1.40	1.52	92			Siltstone, shaly, carbonaceous, slicked in part, some calcite filling on slick in middle, breaks along shale zones, transitional below				
153.01											
	0.68						Shale, silty, ine coaly wisps with some calcite fill-in around it in middle, carbonaceous, fairly homogenous, transitional below.				
	0.06						Siltstone, medium grey, slightly carbonaceous				
Box32											
	0.83	1.57	1.52	103			Siltstone, medium grey, slightly carbonaceous, becoming shaly and more carbonaceous in lower half, coaly wisps and stringers at base, a .05m fine grain sandstone unit at base				
154.53											
	0.67						Siltstone, medium grey, carbonaceous with plant fragments, shaly at top, transitional below				
	0.75	1.43	1.53	93			Sandstone, fine grain, salt and pepper, light and dark grey, few carbonaceous shale bands .01 m thick, massive				
156.06											
	0.30					79	Sandstone, as above, but some cross-bedding, transitional below				
	1.23	1.53	1.52	101		75	Siltstone, with some shale interbeds .01-.03 m thick, slightly carbonaceous 2 minor calcite veins one near				

DIAMOND D CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 114 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
157.5B	0.29						Siltstone, as above, with no calcite veins				
Box33	1.17	1.46	1.53	95			Siltstone, as above, with some minor calcite filled fractures throughout, calcareous in middle, transitional below				
159.1L	0.60						Siltstone, as above, with .10 carbonaceous shale unit at top				
	0.85	1.45	1.52	95			Shale, medum to dark grey, carbonaceous, trace plant fragments, silty, one minor calcite filled fracture at top, iron staining on joint at base, broken stick at base.				
160.6B	1.37	1.37	1.52	90			Shale, medium-dark grey, carbonaceous with trace plant fragments, slightly silty, becoming more silty at base calcareous at base, calcite filling along fracture at base				
162.1B	0.08						Shale, as above				
Box34	1.45	1.53	1.53	100			Shale, as above, with few silty calcareous bands				
163.6B	1.42	1.42	1.52	93			Shale, as above, with some iron staining along joints one minor calcite filled fracture at base				
165.2	1.41	1.41	1.53	92			Shale, as above, with some minor calcite filled fractures throughout, 1 slick in middle				
Box35											
166.7B	0.50						Shale, as above, broken stick				

DIAMOND DRILL CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 114 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	1.57	1.57	1.53	103			Shale, dark grey to black, carbonaceous with abundant plant fragments, few minor calcite filled fractures slicked in part				
Box38											
178.92											
	1.41	1.41	1.52	93			Shale, with some very fine grain sandstone interbeds, carbonaceous, with plant fragments, slightly silty slightly calcareous at top, Sandstone is very calcareous 2 minor calcite filled fractures in middle				
180.44											
	1.36					63	Shale, as above, becoming more silty toward base				
	0.20	1.56	1.53	102			Sandstone, very fine grain, with shaley interbeds, medium to dark grey, cross-bedding, ripple beds carbonaceous with plant fragmenss				
181.97											
Box39	1.47	1.47	1.52	97			Sandstone/Shale, as above, transitional below				
183.49											
	1.54	1.54	1.52	101		73	Siltstone with some very fine grain and Shale interbeds, medium to dark grey, carbonaceous with plant fragments, 1 minor calcite filled fracture at top, shaley at base, transitional below				
185.01											
	1.45	1.45	1.53	95		62	Shale, very dark grey to black, very carbonaceous, abundant plant fragments, 2 small coal stringers at top (.005 and .01 m) few coaly wisps at top, slightly silty at base				
186.54											
	0.75						Shale, as above				
Box40											
	0.68	1.43	1.52	94		73	Siltstone, dark grey, with a few very fine grain sandstone stringers, light grey				
188.06											
	1.19	1.19	1.53	78			Shale, very dark grey, carbonaceous				

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 114 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
189.59	0.39	0.39	0.61	64			Shale, very dark grey to black, carbonaceous to coaly at base, slicks, pyrite discs on some joints				
190.20	1.02	1.40	2.42	58			Shale, dark grey, carbonaceous, silty in part, a few ver thin calcareous filled fractures.				
Box41	0.38						Shale, very dark grey, carbonaceous, slightly silty, plant fragments				
192.62	1.57	1.57	1.54	102		69	Shale, as above, with abundant thin siltstone beds				
194.16	0.93	1.58	1.52	1.03			Siltstone, dark grey, carbonaceous, a few dark grey shaly beds throughout				
	0.65						Shale, dark grey, carbonaceous, silty, plant fragments				
195.68	0.51	1.56	1.53	102			Siltstone, dark grey, carbonaceous, silty, plant fragments				
Box42	1.05						Shale, as above				
197.21	1.45	1.45	1.52	95			Shale, as above				
198.73	1.52	1.52	1.52	100			Shale, as above, but less silty more carbonaceous, abundant plant debris				
200.25											
Box43	1.60	1.60	1.53	105		73	Shale, medium to dark grey, carbonaceous, slightly silty with few very silty bands, trace plant fragments and some pyrite stains at base. A .07 broken zone near base				
201.78											

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 114 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	1.48	1.48	1.52	97			Shale, as above with slicks at base, some calcite on fractures near base				
203.30	0.83						Shale, as above, slicks with calcite filling in upper 1/2, more carbonaceous with more plant fragments at base, no pyrite stains.				
Box 44	0.70	1.53	1.53	100			Shale, as above, plant fragments at top, homogenous at base				
204.83	1.04	1.04	1.52	68			Shale, silty homogenous stick				
206.35	0.22						Shale, as above, abrupted below becoming carbonaceous to base, stick				
	0.22				206.08		Coal, dull with bright broken stick SEAM #8	206-57			
	0.02						Coal, dull broken to sheared				
	0.10						Coal, dull with bright broken stick				
	0.07						Coal, dull stick	199			
	0.02						Shale, carbonaceous stick				
	0.03	1.33	1.52	88			Coal, dull stick				
	0.02						Shale, carbonaceous broken stick				
	0.16						Coal, dull stick				
	0.03						Coal, dull and bright broken stick				
	0.05						Coal, dull, broken				
	0.13						Coal, dull, stick				
	0.06						Coal, dull with bright stick				
	0.20						Coal, dull with bright broken	200			
207.87	0.10						Coal, dull and bright stick				
	0.03						Shale, carbonaceous stick slicked				
	0.05						Coal, dull with bright broken stick				
	0.15						Coal, dull and bright stick				

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 114 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.13						Coal, dull with bright stick				
	0.27	1.23	1.53	80			Coal, dull, broken stick				
	0.12						Coal, dull with bright broken stick				
	0.05						Coal, dull, and bright stick				
	0.18						Coal, dull with bright broken stick				
	0.15						Coal, dull sheered				
209.40											
	0.16						Coal, dull sheered				
	0.07						Coal, dull and bright sheered				
	0.07						Coal, dull sheered				
	0.16						Coal, dull, broken stick				
	0.10						Coal, dull with bright stick	200			
	0.10	1.35	1.02	1.32			Coal, dull stick				
	0.33						Coal, dull with bright stick				
	0.36						Coal, dull stick				
210.42											
	0.12						Coal, dull with bright stick				
	0.12						Coal, bright with dull broken stick				
	0.07						Coal, dull and bright broken stick				
	0.12						Coal, dull, stick				
	0.20						Coal, dull with bright stick				
	0.16	1.23	2.03	61			Coal, dull stick				
	0.03						Coal, shaly				
	0.23						Coal, dull and bright broken stick				
	0.08				211.72		Shale, carbonaceous, stick	212.15			
	0.03						Shale, sheered broken to powdered	201			
	0.07						Shale, carbonaceous broken stick	212.45			
212.45											
	0.07				212.48		Coal, dull, broken				
	0.25						Coal, dull with bright broken stick	202			
	0.14	0.95	1.52	63			Coal, dull, sheered				
	0.30						Coal, dull, broken stick				

DIAMOND F CORE LOG
(ALL ANGLES MEAS D FROM CORE AXIS)

HOLE No: LC 114 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.12						Coal, dull and bright, broken stick				
	0.07						Coal, dull, stick		213.86		
213.97											
	0.05						Coal, dull and bright stick				
	0.10						Coal, dull stick				
	0.21						Coal, dull with bright broken stick sheered in part				
	0.15						Coal, dull sheered broken stick				
	0.05						Coal, dull, broken				
	0.26						Coal, dull and bright stick				
	0.20						Coal, dull broken				
	0.13						Coal, dull with bright broken				
	0.14	1.36	1.47	93			Coal, dull with bright powdery				
	0.07						Coal, dull with bright broken stick				
215.44								203			
	0.15						Coal, dull, broken				
	0.10						Coal, dull broken stick				
	0.15						Coal, dull, broken slicked				
	0.30	1.30	1.58	82			Coal, dull with bright broken slicked in part				
	0.30						Coal, dull and bright sheered				
	0.30						Coal, dull sheered				
217.02											
	0.06						Coal, dull and bright broken stick				
	0.30						Coal, dull sheered in part broken				
	0.20						Coal, bright and dull sheered broken'				
	0.30						Coal, dull, sheered, broken				
	0.10	1.31	1.52	86			Coal, dull, broken stick				
	0.06						Coal, bright stick				
	0.14						Coal, dull and bright broken stick				
	0.15						Coal, dull, stick				
218.54											
	0.30						Coal, dull, broken stick pyrite discs on cleat				
	0.12						Coal, dull, and bright broken stick				

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 114 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.20	0.89	1.53	58			Coal, dull, (shaly?) broken				
	0.06						Coal, dull with bright broken stick	203			
	0.06						Coal, dull, stick				
	0.07						Coal, bright broken				
	0.08				220.12		Shale, carbonaceous with coaly stringers	2197			
220.07	1.40					75	Shale, silty carbonaceous with numerous coaly stringers occasional calcareous filled joints				
Box 48	0.22	1.62	1.52	107			Shale, dark grey carbonaceous with plant fragments has some siltstone interbeds at base, few minor calcite filled fractures at base				
221.59	1.26	1.26	1.52	83			Shale, as above with siltstone interbeds throughout .01-.04 m thick, some coaly wisps and stringers at base				
223.11	1.50	1.50	1.53	98		72	Shale, as above, no coaly wisps				
224.64	0.91										
Box 49	0.54	1.45	1.52	95			Shale, as above				
226.15	1.56	1.56	1.53	102			Shale, as above, siltstone slightly calcareous, a minor flame structure near base				
227.69	1.13					68	Shale, as above transitional below				
	0.24	1.37	1.52	90			Siltstone, medium grey shaly, trace plant fragments				
229.21	0.50						Siltstone, as above				
Box 50	1.10	1.60	1.52	105			Siltstone, as above, some cross-bedding				

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 114 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
230.73	1.49	1.49	1.63	91		61	Siltstone, as above				
232.36	1.35						Siltstone, as above, with some dark grey carbonaceous shale interbeds transitional below				
	0.18	1.53	1.42	108		40	Sandstone, fine grain salt and pepper light and dark grey, monderate bedding, slicked at base very calcareous				
233.78											
Box51	0.89					46	Sandstone, fine grained salt and pepper, calcite filled fracture at top bedding monderatly developed abrupted below				
	0.60	1.49	1.53	97			Shale, dark grey carbonaceous with plant fragments silty				
235.31	1.49	1.49	1.52	98			Shale, as above with few silty bands .02 m thick				
236.83	0.23						Shale, as above, calcite filled fracture at base, transitional below				
	0.91						Siltstone, medium grey some very fine grain sandstone beds at base some shale ripple up clasts near top 1 coal wisp at top some disturbed bedding trace plant fragment throughout				
Box52	0.36	1.50	1.52	99			Siltstone, as above no coaly wisps no shale clasts				
238.35	0.60						Siltstone, as above				
	0.24						Sandstone, fien to medium grain salt and peper calcareous				
	0.70	1.54	1.53	101			Siltstone with some interbedded very fine grain sandstone, medium grey few plant fragments some minor cross-bedding silty calcareous				

minor cross-bedding silty calcareous

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 114 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
239.88											
	0.38						Siltstone as above				
	0.45						Sandstone, fine grained with some siltstone interbeds cross-bed plant fragment throughout poorly bedded				
	0.62	1.45	1.52	95			Siltstone, medium to dark grey silty carbonaceous trace plant fragment silty calcareous				
241.40											
	0.69						Siltstone, as above, with few very fine grain sandstone beds				
Box53											
	0.78	1.47	1.53	96			Shale, medium to dark grey carbonaceous with plant fragments silty some very fine grain sandstone, lamina at base some coaly wisps throughout sandstone is very calcareous 1 slick at base				
242.93											
	1.05	1.05	1.52	69			Shale, as above, slick at base fewer sandstone lamina				
244.45											
	0.59						Shale, as above more carbonaceous no slicks abrupted below				
	0.91	1.50	1.52	99			Sandstone, fine to medium grained salt and pepper coaly wisps throughout plant fragments throughout massive shaley at base				
245.97											
	0.45						Sandstone, as above, shaley at top				
Box54											
	1.05	1.50	1.53	98			Sandstone, as above slick in part medium grained light grey matrix				
247.50											
	0.10						Sandstone as above, becoming very shaley				

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 114 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	1.42	1.52	1.52	100		68	Shale, medium grey with some very fine grain sandstone lamina silty carbonaceous slick at top, sandstone is calcareous				
249.02	1.29						Shale, as above with .09 fine grain sandstone band near top abrupted below				
	0.08	1.37	1.53	90			Sandstone, fine grained salt and pepper with light grey matrix some coaly wisps at top				
Box55 250.55	0.07						Sandstone, as above				
	0.12						Shale, dark grey, carbonaceous silty				
	1.07	1.26	1.52	83			Siltstone, with some interbedded very grain sandstone and silty shale, few coaly wisps throughout silty carbonaceous plant fragments throughout two slick near base				
252.07	0.91						Siltstone, sandstone, shale, as above, abrupted below				
	0.52	1.43	1.52	94		70	Sandstone, fine grained salt and peper, with light grey matrix silty carbonaceous moderately bedded silty calcareous				
253.59	0.27						Sandstone, as above				
	0.63						Sandstone with some interbed silty carbonaceous shale, medium to dark grey				
	0.46						Sandstone, fine to medium grained salt and pepper light and dark grey few carbonaceous wisps at top massive				
Box56											

DIAMOND CORE LOG
(ALL ANGLES MEAS. FROM CORE AXIS)

HOLE No: LC 114 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.12	1.48	1.53	97			Sandstone, fine-medium grain, low angle cross-bedding stick				
255.12	1.55	1.55	1.52	102		74	Sandstone, as above				
256.64	1.90	1.90	1.53	124		78	Sandstone, as above, becoming medium-coarse grain near top				
258.17	0.05						Rubble, shaley, reworked				
	0.47	1.49	1.52	98			Sandstone, as above with few coal stringers near base				
Box 57	0.97					79	Sandstone, as above, with coaly wisps near top				
259.69	1.20	1.35	1.52	89			Sandstone, as above, with coaly indesion and wisps near base, abrupt below				
	0.15						Shale, black, carbonaceous, with coaly wisps, throughout, slicks				
261.21	0.43						Shale, as above, stick				
	0.3				261.75		Coal, bright and dull sheered, powdery SEAM #9	261.64			
	0.05	1.53	1.53	100			Coal, dull with bright broken stick				
	0.11						Coal, dull				
	0.06						Coal, dull and bright stick	204			
	0.03						Shale, carbonaceous, broken stick				
	0.07						Coal, dull with bright broken				
	0.06						Shale, carbonaceous, with coal stringer				
	0.08						Coal, bright with dull stick				
	0.11						Coal, dull, broken stick				
	0.03						Coal, dull and bright stick				
	0.2						Coal, dull with bright broken				
Box 58											

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 114 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
262.74											
	0.05						Coal, dull and bright broken				
	0.06						Coal, dull, broken				
	0.03						Shale, carbonaceous, stick				
	0.06	1.06	1.72	62			Coal, dull and bright stick				
	0.07						Coal, dull, stick				
	0.1						Shale, carbonaceous, broken stick				
	0.09						Coal, bright and dull broken stick				
	0.18						Coal, dull, stick				
	0.18						Coal, dull with bright broken stick				
	0.2						Coal, dull stick				
	0.04						Coal, dull and bright broken stick				
264.46											
	0.05						Coal, dull and bright broken				
	0.12						Coal, dull, stick				
	0.05						Coal, dull and bright stick				
	0.23	1.39	1.33	105			Coal, dull broken stick, slicked	204			
	0.11						Coal, dull with bright, stick				
	0.11						Coal, dull, stick				
	0.13						Coal, dull and bright, broken stick				
	0.59						Shale, carbonaceous with coal stringers stick, slicks				
265.79											
	0.07						Shale, as above	205			
	0.07						Coal, dull broken stick				
	0.02						Shale, carbonaceous				
	0.14						Coal, dull with bright stick	206			
	0.15						Coal, dull, stick				
	0.1						Coal, dull and bright stick				
	0.08						Coal, dull and bright stick				
	0.2						Coal, dull stick				
	0.15						Coal, dull with bright stick				

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 114 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.04						Coal, shaley, stick				
	0.16	1.41	1.52	93			Coal, dull with bright stick				
	0.08						Coal, dull, broken				
	0.05						Coal, dull and bright, broken stick				
	0.1						Coal, dull broken to powder	206			
267.31											
	0.25						Shale, carbonaceous with coal stringers broken				
	0.03						Coal, stick		CORE NOT IN PROPER ORDER		
	0.36	0.86	1.22	70			Shale, carbonaceous, stick				
	0.11						Coal, dull with bright stick				
	0.11				268.13		Shale, carbonaceous broken stick	268.13 268.37			
268.53											
	1.25	1.25	1.52	82			Shale, carbonaceous with coal stringers, homo., plant fragments transitional below				
270.05											
	0.2						Shale, as above				
	0.4	1.55	1.53	101		87	Shale, silty with very fine grain sandstone zones transitional below, poorly bedded				
	0.7						Shale, carbonaceous, with occasional coaly interbeds				
Box60											
	0.25						Shale/Siltstone, dark grey, carbonaceous, inter-laminated				
271.58											
	1.51	1.51	1.52	99			Shale/Siltstone, as above, stick				
273.10											
	1.50	1.50	1.52	99		75	Siltstone/Shale, with some very fine grain sand laminae near base, interlaminated				
274.62											
	0.71						Siltstone/Shale, as above with very fine grain sand, laminae, throughout				
Box61											
	0.84	1.55	1.53	101			Siltstone/Shale, as above				

DIAMOND CORE LOG
(ALL ANGLES MEAS. FROM CORE AXIS)

HOLE No: LC 114 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
276.15	1.58	1.58	1.52	104			Siltstone/Shale, as above				
277.67	1.52	1.52	1.53	99		75	Siltstone/Shale, as above				
279.20	0.23	1.53	1.52	101			Siltstone/Shale, as above				
Box62	1.30						Siltstone/Shale, as above with calcite filled fractures broken stick				
280.72	1.52	1.52	1.52	100			Siltstone/Shale, as above lacking fractures, broken at top, stick throughout				
282.24	1.15	1.15	1.21	95			Siltstone/Shale, as above				
Box63											
283.45	0.32	0.32	0.32	100			Shale, dark grey, stick				
283.77	1.12						Shale, as above				
	0.25	1.53	1.52	101			Coal, dull, broken stick				
	0.09						Shale, dark grey, some carbonaceous, broken				
	0.07						Shale, dark grey, stick				
285.29	0.08	0.08	0.31	26			Shale, as above Shale, dark grey, some carbonaceous, broken				
285.60	0.07						Shale, as above, more carbonaceous				
	0.11				285.25		Coal, dull with bright, broken SEAM #10B	285.69			
	0.01						Shale, dark grey, carbonaceous				
	0.15	0.92	1.22	75			Coal, dull, broken stick, some slick	218			
	0.10						Coal, dull, broken stick				
	0.06						Coal, dull with bright, broken stick				

DIAMOND CORE LOG
(ALL ANGLES MEAS. D FROM CORE AXIS)

HOLE No: LC 114 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.07						Coal, dull with bright, stick				
	0.07						Coal, dull, broken stick				
	0.28						Coal, dull, stick				
286.82											
	0.15						Coal, dull, broken stick				
	0.16						Coal, dull, stick				
	0.10						Coal, dull with bright, stick				
	0.08						Coal, dull, stick				
	0.05						Coal, dull with bright stick				
	0.17						Coal, dull stick				
Box 64											
	0.04						Coal, dull broken				
	0.08	1.31	1.52	86			Coal- dull with bright broken sheared				
	0.16						Coal, dull, stick				
	0.04						Coal, dull with bright stick	218			
	0.28						Coal, dull stick				
288.34											
	0.05						Coal, dull, broken				
	0.08						Coal, dull with bright stick				
	0.07						Coal, dull, stick				
	0.10						Coal, dull, broken stick sheared				
	0.18	1.21	0.92	132			Coal, dull, stick				
	0.10						Coal, as above, sheared				
	0.20						Coal, dull stick				
	0.01						Shale, coaly				
	0.21						Coal, dull, stick				
	0.21						Coal, dull, stick, sheared				
289.26											
	0.07						Coal, dull with bright				
	0.05	0.12	0.91	13	290.45		Shale, coaly	289.33			
290.17											

DIAMOND CORE LOG
(ALL ANGLES MEAS D FROM CORE AXIS)

HOLE No: LC 114 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	1.58	1.58	1.52	104		70	Shale, dark grey, silty, carbonaceous				
291.69	0.12	1.19	1.22	98			Shale, as above				
Box65	1.07						Shale, Siltstone interlaminated with occasional very fine grain sand laminae				
292.91	1.45	1.45	1.53	95		73	Siltstone/Shael, interlaminated with very fine grain sand zones				
294.44	1.56	1.56	1.52	103			Shale/Siltstone, interlaminated				
295.96	0.17						Shale/Siltstone, as above				
Box66	0.69	1.07	1.37	78			Shale, carbonaceous with coaly wisps to base abrupt below, stick, slicked				
	0.08				297.32		Coal, dull with bright, stick SEAM #10A	297.97			
	0.02						Coal, shaley, stick				
	0.11						Coal, dull, stick				
297.33	0.10						Coal, dull with bright, broken stick				
	0.08						Coal, dull, stick				
	0.28						Coal, dull, stick				
	0.06						Coal, dull and bright, stick				
	0.20	1.02	1.37	74			Coal, dull, stick				
	0.24						Coal, dull, sheared, broken stick	219			
	0.06						Coal, shale, carbonaceous, slicked				
298.70	0.05						Coal, dull, broken				
	0.13						Coal, dull with bright stick				
							Coal, dull, broken-powdery				
	0.10						Coal, dull, stick				

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 114 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.06						Coal, bright, stick				
	0.23	0.84	1.38	61			Coal, dull with bright, stick				
	0.08						Coal, dull, sheared, powdery				
	0.10						Coal, dull and bright, stick				
	0.09				300.50		Sandstone (Basal)	299.99			
300.08											
	0.66						Sandstone (Basal)				
Box67											
	0.27	0.93	0.91	102			Sandstone, no bedding, medium grain, salt and pepper, trace carbonaceous material, stick				
300.99											
	1.35	1.35	1.37	99			Sandstone, as above, transitional below				
302.36											
	0.36						Sandstone, as above				
	1.18	1.54	1.53	101			Sandstone, moderately bedded with zones of fine sub-angular pebbles, carbonaceous along bedding, well developed cross-bed, abrupt below				
303.89											
Box64	1.24	1.24	1.52	82		85	Sandstone, as above				
305.41											
	1.48	1.48	1.52	97			Sandstone, as above				
306.93											
	1.53	1.53	1.53	100			Sandstone, as above				
308.46											
	0.05					80	Sandstone, as above				
	0.02						Shale, silty carbonaceous, abrupt below				
	0.82						Sandstone, medium grain, carbonaceous stringers, some slicks along bedding, abrupt below				
	0.02						Coal, dull, stick (core loss 1st split)				
Box69											
	0.46	1.37	1.52	90			Sandstone, medium grain, massive, salt and pepper minor carbonaceous wisps				

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 114 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
309.98											
	0.37						Sandstone, as above				
	1.25	1.62	1.53	106			Sandstone, moderatley to well bedded with occasional sub-angular pebbles, trace carbonaceous material on bedding, cross-bedded				
311.51											
	1.50	1.50	1.52	99			Sandstone, as above, becoming more pebbly and carbonaceous toward base				
313.08											
Box70											
	0.94						Sandstone, as above, abrupt below				
	0.20	1.14	1.52	75			Shale, carbonaceous with minor coaly wisps, numerous slicks, broken				
314.55											
	0.12						Shale, as above, slicked below				
	1.12	1.24	1.53	81			Sandstone, medium grain, poorly bedded to massive, carbonaceous, wisps, transitional below				
316.08											
	1.00						Sandstone, as above				
	0.55	1.55	1.52	102		80	Sandstone, medium grain, moderatley bedded, cross-bed, salt and pepper, carbonaceous material on bedding becoming increasingly cross-bedded at base				
317.60											
Box71	1.53	1.53	1.53	100			Sandstone, as above				
319.13											
	1.55	1.55	1.52	102			Sandstone, as above				
320.65											
	1.50	1.50	1.52	99			Sandstone, as above				
322.17							END OF HOLE LC 114				
							T.D.				

DIAMOND HILL RE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 115 SHEET No: 1

DATE BEGUN: _____ DEPTH: _____ BEARING: _____ U.T.M. _____

DATE FINISHED: _____ ELEV. COLLAR: _____ TOTAL DEPTH: _____ COAL LICENSE: _____

LAT.: _____ HOLE ANGLE: _____ LOGGED BY: _____ CORE SIZE: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
Box 1	0.37						Siltstone, medium grey, slightly carbonaceous, iron stains along joints and fractures, transitional below, broken stick				
3.35	0.36						Sandstone, very fine grain, with carbonaceous Shale interbeds (.01 m thick) iron staining along joints and fractures, broken stick				
	1.06	1.42	1.53	93			Sandstone-Sahel, as above, more iron staining, broken to broken stick				
4.88	0.52	0.52	0.79	66			Sandstone-Shale, as above, moderate iron staining				
5.67	0.38	0.38	1.34	28			Sandstone-Shale, as above, broken				
7.01							TRICONE				
9.14	0.20						Shale, dark grey, carbonaceous, with trace plant fragments, silty, transitional below				
	0.07						Siltstone, , weathered red brown, very calcareous				
	0.59						Siltstone, medium grey to weathered red-brown, moderately calcareous, weathering, is very calcareous, two iron stains concretions - 1 near base and 1 in middle, becoming sandy at base and not calcareous				
Box 2	0.69	1.55	1.92	81		85	Sandstone, fine to medium grain, salt and pepper, light and dark grey, few plant fragments, poor to moderately bedded, iron staining along joints and fractures				
11.06	0.93						Sandstone, as above, transitional below				

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 115 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.51						Siltstone, medium to dark grey, carbonaceous, iron staining along joints and fractures, slightly calcareous				
12.41	0.08	1.52	1.35	113			Shale, very dark grey, carbonaceous, broken to powder				
	0.25						Shale, as above broken to broken stick				
	0.12						Sandstone, fine grain, carbonaceous, iron staining along joints				
	0.17						Siltstone, medium to dark grey, slightly carbonaceous, iron stained along joints and fractures, transitional below				
	1.08	1.62	1.59	102		84	Interbedded, very fine grain sandstone and silty shale, some cross-bedding, ripple beds, deformed bedding shale is carbonaceous, broken near base				
14.00											
Box3											
	0.13						Sandstone-Shale, as above, broken				
	0.97						Sandstone, medium grain, interbedded with dark grey silty, carbonaceous shale, cross-bedding, disturbed beds, calcareous, in middle, abundant iron staining on joints and fractures				
	0.29						Sandstone, medium grain, salt and pepper light and dark grey, plant fragments, poor to moderately bedded				
	0.04	1.43	1.54	93			Shale, black to weathered red-brown, very carbonaceous, broken				
15.54											
	0.09						Shale, dark grey, carbonaceous with trace plant fragments, silty, abrupt below				
	1.40	1.49	1.53	97			Sandstone, medium grain, salt and pepper, light and dark grey, trace plant fragments, bioturbated in lower half, slicked in part, abundant iron staining on joints and fractures, broken stick				

DIAMOND / LL RE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 115 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
17.07	0.80					80	Sandstone, as above, with no bioturbations, few minor calcite filled fractures throughout, trace coaly wisps, stick				
Box4	0.66	1.46	1.52	96			Sandstone, as above, broken at base				
18.59	2.70						Sandstone, as above				
	0.13	2.83	3.05	93			Sandstone, coarse grain, salt and pepper light and dark grey, carbonaceous few coaly wisps, iron stains along fractures and joints, massive				
21.64	0.23						Sandstone, as above, broken				
	0.27						Sandstone, as above not broken, with a .02 m thick dull coaly stringer at top				
Box5	0.81	1.31	1.52	86			Sandstone, as above with no coal stringer but more coaly wisps at top a .06 broken zone near base				
23.16	0.34						Sandstone, as above, broken, rubble zone				
	0.43	0.77	1.22	63			Sandstone, as above, stick, abrupt below				
24.38	1.42	1.42	1.53	93		65	Shale, dark grey to black, carbonaceous with plant fragments, silty with a few very silty bands, few minor calcite filled fractures in middle, some iron staining along joints and fractures				
25.91	0.61						Shale, as above, siltier at base, abrupt below rubble zone at base				
	0.21						Sandstone, medium to coarse grain, salt and pepper light and dark grey, trace plant fragments, iron staining throughout, broken stick				

DIAMOND LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: J.C 115 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
Box 6											
	0.32	1.14	1.37	83			Sandstone, as above, broken to broken stick				
27.28											
	0.45	0.45	0.76	59			Sandstone, as above, trace calcite on fracture				
28.04											
	0.51	0.51	0.49	104			Sandstone, as above				
28.53											
	0.23						Sandstone, as above, abrupt below				
	0.24	0.47	0.73	64			Shale, dark grey to black, carbonaceous, slightly silty, broken at base				
29.26											
	0.13						Clay, light grey to brown, S2 in hardness, powdered				
	0.71	0.84	1.22	69			Shale, medium to dark grey, carbonaceous, with trace plant fragments, silty red-brown weathering, along joints and fractures, 1 sandstone band near base				
30.48											
	0.15						Shale as above, abrupt below				
	0.36						Sandstone medium to coarse grain, salt and pepper light and dark grey coaly wisps moderatley calcareous, some calcite along fracture some iron staining abrupt below				
	0.08	0.59	0.91	65			Shale, silty, medium grey, carbonaceous, broken				
31.39											
	0.20						Siltstone, medium grey, slightly carbonaceous, trace plant fragments, slightly calcareous				
Box 7											
	0.30						Siltstone, as above, more shaley abrupt below				
	0.33					62	Sandstone, medium grain, salt and pepper, light and dark grey, abundant coaly wisps at top bedding faintly visible, Abrupt below				

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 115 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.36	1.19	1.22	98			Shale, dark grey to black, carbonaceous, silty, with a few very silty bands, few minor calcite filled fractures				
32.61	0.27						Shale, as above				
	0.15						Sandstone, redrilled, sluffed (?)				
	0.79	1.21	1.22	99		58	Shale, with some very fine grain sandstone lamini; carbonaceous, silty, iron stains along joints, 1 calcite filled fracture in middle slightly calcareous throughout				
33.83	0.12						Shale, as above				
	0.08						Shale, dark grey to weathered red-brown numerous calcite filled fractures, very calcareous, abrupt below				
	0.14	0.34	0.61	56			Sandstone, medium grain, salt and pepper, light and dark grey, carbonaceous, plant fragments, broken to broken stick				
34.44	0.08						Sandstone, as above, broken				
	0.62	0.70	0.79	89			Sandstone, as above, broken stick with iron staining along fractures and joints abrupt below				
35.23	0.26						Shale, medium to dark grey, carbonaceous with plant fragments, silty, 1 sandstone band near top some iron staining along fracture near top				
Box 8	1.11	1.37	1.35	101			Siltstone, medium grey, with numerous rip up clasts of medium to dark grey Shale and silty Shale, sandy in part, calcite filling and iron staining along fractures, slick				
36.58											

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 115 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.41	0.41	1.03	40			Sandstone, medium to dark grey with iron stained weathered zones, calcite and iron staining along fractures, fine to medium grain				
37.61	1.43	1.43	1.56	92			Sandstone, as above, with a few coaly wisps, cross-bedding near top				
39.17	0.80	0.80	0.76	105			Sandstone, as above, more coal wisps, carbonaceous and some plant debris along fractures				
39.93											
Box 9	0.76						Sandstone, medium to dark grey, fine to medium grain, some cross-bedding and ripple bedding, calcite and iron staining along fractures, dark grey near bottom, slightly silty near bottom				
	0.20	0.96	1.22	79			Sandstone, medium to coarse grain, badly weathered and iron stained, badly broken to crumbled, medium grey in color, slightly carbonaceous				
41.15	0.17						Sandstone, as above, increasingly carbonaceous along fractures, broken near top to broken stick near bottom, Sharp Contact Below				
	0.93						Shale, slightly silty, medium to dark grey with rip up clasts of medium grey very fine grain sandstone, iron stain and calcite along fractures SHARP CONTACT BELOW				
Box 9	0.16						Sandstone, medium to dark grey, fine to medium grain, numerous thin silty dark grey bands, SHARP contact below				
	0.17	1.43	1.61	89			Shale, slightly silty, dark grey, erosional contact with sandstone near bottom				

DIAMOND P L CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 115 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
42.76	0.26					74	Sandstone, medium to dark grey, fine to medium grain, numerous dark shaley bands and a few coaly wisps near bottom, calcite and iron stained along fractures near bottom, Sharp Contact Below				
	1.24	1.50	1.59	94			Shale, slightly silty, with iron staining and calcite along fractures, (.12 medium grain sandstone near middle)				
44.35	0.08						Shale, as above, with some plant debris				
Box 10	0.17						Shale, dark grey, silty, with a few thin very fine grain sandstone beds, calcite and iron staining and some plant debris along fractures, slick, grades into siltstone near base, sharp below				
	0.64						Sandstone, medium grey, medium grained, numerous shaley wisps throughout, badly weathered, iron stained and broken near top, erosional contact below				
	0.08						Silty Shale, dark grey, sharp below				
	0.26	1.23	1.52	81			Interbedded, sandstone, silty shale, sandstone is fine to medium grain, medium grey, siltstone is medium to dark grey, sandstone is iron stained and badly weathered near top, whole section is broken				
45.87	1.25						Sandstone, very fine grain, medium to dark grey, numerous coaly wisps near center, poorly bedded, iron staining and calcite along fractures				
	0.11	1.36	1.62	84			Sandstone, very fine grain, grading to siltstone medium to dark grey, sharp below				
47.49											

DIAMOND F L RE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LG 115 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	1.03						Sandstone, fine to medium grained, poorly bedded medium grey, coaly wisps, carbonaceous and pyrite along fractures, broken to broken stick badly weathered near top, grades into siltstone near base				
Box 11	0.20						Shale, very silty, medium to dark grey, iron staining along fractures, grades down into a very fine grain sandstone				
	0.15	1.38	1.58	87			Sandstone, fine to medium grain, interbedded siltstone, dark grey				
49.07	0.34						Sandstone, as above				
	0.87						Sandstone (fine to very fine grain) very badly weathered, iron stained some calcite along fractures (weathered sections) broken				
	0.28	1.49	1.53	97			Sandstone, very fine grain to fine grain, grading to siltstone near base, disturbed bedding				
50.6	0.84						Shale, medium to dark grey, silty, grades to siltstone near bottom				
	0.07						Sandstone, very fine grain to fine grain, medium grey, transitional above sharp below				
Box 11	0.37						Shale, dark grey to black, iron staining and calcite along fractures, slightly silty near base, Sharp below				
	0.26	1.54	1.52	101			Sandstone, very fine grain, medium to dark grey, few thin shaley beds				
52.12	0.76						Sandstone, as above, with more numerous shaley beds, disturbed and ripple beds, iron staining along fractures				

DIAMOND RE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 115 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
Box 12	0.47						Siltstone and silty shale, iron staining and calcite along fractures, slick, broken at top Sharp Below				
	0.26	1.49	1.53	97			Sandstone, fine to medium grain, medium to dark grey rip up clasts of dark Shale near base, iron stained, calcite along fractures				
53.65	0.25						Sandstone, as above, rip up clasts near top Sharp below				
	0.30						Siltstone, medium to dark grey, slightly sandy in places, sharp below				
	0.33						Sandstone, medium grain, medium to dark grey, iron staining and calcite along fractures, erosional surface below with rip up clasts of dark grey siltstone				
	0.28						Sandy Siltstone, iron staining along fractues sharp below				
	0.09						Sandstone, fine to medium grain, weathered red along bottom contact, medium grey				
	0.09						Siltstone, iron staining, and calcite along fractures sharp below				
	0.10	1.44	1.52	95			Sandstone, fine to medium grain, medium grey with dark grey interbedded siltstone's and slightly shale				
55.17	1.36	1.36	1.83	74			Sandstone, as above, with iron staining and calcite along fractures, slick, becoming more silty near base, disturbed bedding and some plant fragments near base				
57.00	0.58						Sandstone, as above, becoming more silty				

DIAMOND [] LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 115 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
Box13	Bo										
	0.05						Sandstone, as above, sharp below				
	0.90	1.53	1.22	125			Siltstone, and interbedded very fine grain sandstone, Siltstone dark grey, Sandstone medium grey becomes more silty near base				
58.22											
	0.24						Siltstone, as above, becoming shaley near base, coaly along bottom contact, slick				
	0.22						Sandstone, fine grain, medium to dark grey, some iron staining, iron staining and calcite along fractures, sharp below				
	0.86						Shale, dark grey to black, silty in places iron staining and calcite along fractures (.18 fine grain sandstone near base) sharp below				
	0.15	1.47	1.83	80			Sandstone, fine grain, medium to dark grey, silty in places, weathers to a light reddish				
60.05											
	0.36						Sandstone, as above, iron staining and some calcite along fractures, sharp below				
	1.02	1.38	1.21	114			Interbedded, silty Shale and Siltstone, dark grey coaly wisps near base, iron staining and calcite along fractures, slicks, broken stick to broken becomes more shaley near bottom				
61.26											
	0.21						Silty Shale, dark grey to black, slicks broken stick				
Box14											
	0.79	1.00	1.83	55			Shale, medium to dark grey, carbonaceous, silty, plant fragments, few coaly wisps at top, slicked in part, slightly calcareous at base				
63.09											

DIAMOND F L CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 115 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	1.20	1.20	1.22	98			Shale, as above, more carbonaceous and less silty at base, slightly calcareous in upper half				
64.31											
	0.23	0.23	0.49	47			Shale, as above, broken				
64.80											
	0.28	0.28	0.61	46			Shale, as above, broken, slicked				
65.41											
	0.06	0.06	1.34	45	65.80		Coal, dull, broken stick				
66.75											
	0.02						Clay, dark brown, soft, S1 in hardness				
	0.07				67.26		Coal, dull, powdery				
	0.68						Shale, dark grey to black, carbonaceous, iron staining on joint near top, trace coaly stringers near top, slicked at top				
Box15											
	0.60	1.37	1.67	82			Shale, medium to dark grey, carbonaceous with carbonaceous plant fragments, some iron staining at top, slightly calcareous at base				
68.42											
	0.27						Shale, as above, transitional below				
	1.25	1.52	1.59	96		81	Siltstone wit some interbedded very fine grain sandstone and silty carbonaceous shale, medium grey ripple bedding, cross-bedding, very calcareous				
70.01											
	1.44	1.44	1.56	92		82	Siltstone/Sandstone/Shale, as above, bedding very disturbed at base, calcite filled fractures at base				
71.57											
	0.37						Siltstone, Sandstone, Shale, as above, broken				
Box16											

DIAMOND F L CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 115 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.60	0.97	1.58	61			Siltstone, Sandstone, Shale, as above not broken, iron staining on joints				
73.15											
	1.01	1.01	1.07	94			Siltstone with some interbedded very fine grain to fine grain sandstone beds, light to medium grey very calcareous, sandy at base, .2 rubble zone in middle				
74.22											
	0.30	0.30	1.09	28			Siltstone, as above, with iron stains on joints and fractures				
75.31											
	0.88	0.88	1.19	74			Siltstone, medium to dark grey, shaly, slightly carbonaceous with trace plant fragments at top some fine grain sandstone lamina at top, iron staining on joints show weathering in surrounding siltstone, calcareous				
76.50											
	0.59						Siltstone, as above, transitional below				
	0.20					80	Sandstone, fine grain, salt and pepper, light and dark grey, some silty carbonaceous lamina, red brown weathering along iron stained joints, cross-beds, ripple beds, moderately calcareous				
	0.09						Shale, dark grey, silty, carbonaceous, trace plant fragments, iron staining on joints				
Box 17											
	0.07	0.95	1.53	62			Shale, as above				
78.03											
	0.11						Shale, as above, broken				
	0.11					86	Shale, as above, transitional below				
	0.52						Sandstone, fine to medium grain, light and dark grey, salt and pepper, abundant interbedded carbonaceous lamina, few plant fragments, coaly wisps at base				

slicked in part, iron staining throughout, calcareous

DIAMOND F L RE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 115 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.38	1.12	1.37	82			Sandstone, as above, broken, rubble zone				
79.40	0.93						Sandstone, as above, not broken at top, bedding deformed, disturbed, broken with calcite filling at base				
	0.55	1.48	1.62	91		11	Sandstone, fine to medium grain, salt and pepper, light and dark grey, few shaly carbonaceous bands abundant iron staining on joints, cross-beds, ripple beds, very calcareous NOTE: Fault zone begins at 80.88 m sheared, broken zones and litho changes are described as appear				
81.02	0.92						Sandstone, as above, with abundant calcite filled fractures, slicked throughout, broken stick				
Box 18	0.42	1.34	1.58	85			Sandstone, as above, broken				
82.60	0.61	0.61	0.94	65			Sandstone, as above, broken				
83.54	0.64	0.64	0.28	229			Siltstone, medium grey, trace plant fragments, a few thin very fine grain sandstone, beds, iron staining along joints, bedding, disturbed, calcareous				
83.82	1.47	1.47	1.71	86		22	Siltstone, with interbedded very fine grain sandstone and silty carbonaceous Shale, cross-bedding, ripple beds, disturbed bedding, abundant calcite filled fractures moderately calcareous, trace coaly wisps at base, iron staining throughout, slicked throughout				
85.53	0.53						Siltstone, Sandstone, Shale, as above				

~~NOTE: FAULT ZONE~~

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 115 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
Box19											
	0.47	1.00	1.03	97			Siltstone, Shale, Sandstone, as above transitional below				
86.56											
	0.43						Sandstone, fine grain, medium grey, disturbed bedding, abundant calcite filled fractures, iron staining on joints, calcareous, slicked				
	0.71	1.14	1.44	79			Sandstone, as above, but weathered red-brown along joints, some leached out calcite filled pockets, very calcareous				
88.0											
	0.05						Sandstone, as above, abrupt below				
	0.44					23	Shale, silty, carbonaceous, few very fine grain sandstone bands, slicked throughout abundant iron staining, calcareous with some calcite filled fractures, disturbed bedding at base.				
	0.34						Sandstone, fine grain, medium grey, carbonaceous silty shale lamina, some shale fragments inbedded into sandstone, few minor calcite filled fractures, very calcareous with iron staining				
	0.11	0.94	0.70	134			Core is 1/2 silty carbonaceous shale and 1/2 fine grain medium grey sandstone, sandstone has shale fragments inbedded into it, both are calcareous, iron stained, reason for 1/2 and 1/2 is probably due to hole being drilled on bedding contacts				
88.70											
	1.39					3	Sandstone, Shale, as above bedding very irregular				
Box20											
	0.16	1.55	1.52	102			Shale, with some interbedded fine grain sandstone bands, carbonaceous, very silty, calcareous, disturbed bedding				
90.222											

DIAMOND E L CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 115 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.41						Shale, as above, few minor calcite filled fractures, iron stains on joints				
	0.90	1.31	1.52	86		21	Sandstone, fine grain with some interbedded silty, carbonaceous Shale, some Shale fragments inbedded into Sandstone, Shale is monderately calcareous while Sandstone is very calcareous, iron staining on joints and fractures, slicked in part				
91.74	0.82						Sandstone, Shale, as above				
	0.67	1.49	1.53	97		7	Core 1/2 slightly carbonaceous siltstone and 1/2 fine grain, sandstone, irregularly bedded, siltstone moderatley calcareous sandstone very calcareous, few minor calcite filled fractures at base feason for 1/2 and 1/2 due to hole being drilled along bedding contact				
93.27	0.99						Sandstone, siltstone as above, siltstone becoming shaly				
Box21	0.52	1.51	1.52	99			Sandstone, fien to medium grain, shaly fragments are inbedded into sandstone, deformed bedding salt and pepper, light and dark grey, very calcarerous with few minor calcite filled fractures at base				
94.79	1.44	1.44	1.53	94		8	Sandstone, as above, silty in middle, broken stick and slicked in middle, calcite filled fractures throughout becoming more abundant at base				
96.32	0.85						Sandstone, as above, broken stick abundant calcite filled fractures, slicked throughout abrupt below				
	0.37	1.22	1.22	100			Shale, dark grey, slightly carbonaceous silty, slightly calcareous, broken to broken stick				

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 115 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
97.54	0.45	0.45	0.61	74			Shale, as above				
98.15	0.28						Interbedded fine grain Sandstone and silty carbonaceous shale, broken stick, slicks				
Box22	0.05	0.33	0.61	54			Sandstone, Shale, as above				
98.76	0.13						Sandstone, Shale, as above, broken				
	0.40					0	Core 1/2 fine grain sandstone and 1/2 dull stick coal slicked along contact, coal powered at top				
	0.15	0.68	0.91	75			Sandstone, fine grain with some carbonaceous shale fragments inbedded into the sandstone, calcareous, slicked				
99.67	0.42						Sandstone, fine grain light and medium to dark grey ripple bedded, calcareous, slicks, some cross-bedding minor calcareous filled fractures				
	0.15	0.57	0.63	90			Sandstone, as above, broken				
100.3	0.18						Sandstone, as above, broken				
	0.16	0.34	0.28	120			Sandstone, as above				
100.58	1.46	1.46	1.53	95			Sandstone, as above				
102.11	0.48						Sandstone, as above				
Box23	1.05	1.53	1.52	101			Sandstone, as above				
103.63	1.54	1.54	1.53	101		0	Sandstone, as above				
105.16	1.56	1.56	1.61	97		6	Sandstone, as above				

DIAMOND [] L [] RE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 115 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
106.77											
Box24	1.44	1.44	1.59	91		15	Sandstone, fine grain, medium and dark grey, some shaly bands, cross-beds, ripple beds, moderately calcareous, 1 slick near top				
108.36	0.25						Sandstone, as above, transitional below				
	1.24	1.49	1.52	98		16	Shale, medium to dark grey, silty, few interbedded very fine grain sandstone bands, minor calcite filled fractures near top, slightly calcareous, some disturbed bedding at top				
109.88	0.75						Shale, as above, slicks and calcite filled fractures at base, abrupt below				
	0.30					2	Sandstone, fine to medium grain, salt and pepper, some very dark grey sandstone lamina, pyrite stains along slicks, some irregular bedding				
Box25	0.31	1.36	1.49	91			Sandstone, as above				
111.37	0.84	0.84	1.04	81			Sandstone, as above, coaly wisps throughout, slicked throughout, abundant calcite filled fractures, moderately calcareous, broken stick				
112.41	1.50	1.50	1.59	94			Sandstone, as above, disturbed bedding				
114.0	0.58	0.58	0.73	79			Sandstone, as above, broken				
114.73	0.52						Sandstone, salt and pepper, light and dark grey, fine grain trace plant fragments, slicked throughout massive				
Box26											

DIAMOND [] LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 115 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.81	1.33	1.4	95			Sandstone, as above				
116.13	1.5	1.50	1.52	99			Sandstone, as above, disturbed bedding at base, with some shale fragments imbedded in sandstone				
117.65	1.53	1.53	1.53	100			Sandstone, as above, slicked, with calcite filled fractures at base, 1 calcite filled fracture at top				
119.18	0.19						Sandstone, as above				
Box27	1.21	1.40	1.52	92			Sandstone, as above, some disturbed bedding				
120.70	1.43	1.43	1.52	94			Sandstone, as above				
122.22	0.23						Sandstone, as above, abrupt below				
	0.69						Siltstone, medium grey, with some fine grain sandstone bands at top, TRANSITIONAL BELOW				
	0.56						Sandstone, fine grain, with some interbedded silty Shale, bands, medium grey, some disturbed bedding near top				
Box28	0.10	1.58	1.53	103			Sandstone, as above, silty				
123.75	1.31	1.31	1.52	86			Siltstone, medium grey with some fine grain sandstone interbeds minor calcite filled fractures, throughout breaks along calcite filled fractures, broken stick				
125.27	1.53	1.53	1.53	100			Siltstone, as above, shaley at base				
126.80											

DIAMOND LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 115 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.65						Shale, medium-dark grey, slightly carbonaceous, trace plant fragments, silty, abundant calcite filled fractures in middle, broken and slicked in middle				
Box29	0.32						Shale, as above, broken, abundant slicks shear zone				
	0.24						Shale, as above				
128.32	0.18	1.39	1.52	91			Shale, as above, stick, more carbonaceous				
	0.10						Shale, as above, broken, slicked				
	1.30						Shale, dark grey to black, carbonaceous, minor sandstone lamini in middle, slicked throughout, slightly silty, abundant calcite filled fractures				
129.84	0.17	1.57	1.52	103			Shale, as above, broken slicked				
130.58	0.63	0.63	0.74	85			Shale, as above, broken at base, slicked throughout				
131.37	0.77	0.77	0.79	97			Shale, as above, not broken, slicked along joints				
Box30	0.18						Shale, as above				
132.89	1.25	1.43	1.52	94			Shale, as above, silty at top, slicked along joints				
	1.04						Shale, as above, few minor calcite filled fractures at top				
Box30	0.20						Shale, as above, broken, no calcite filled fractures				
134.42	0.23	1.47	1.53	96			Shale, as above, not broken				
Box31	1.04					17	Shale, as above, with some minor calcite filled fractures at base, some silty bands				
	0.44	1.48	1.52	97			Shale, as above, no silty bands				

DIAMOND DRILL CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 115 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
135.94	1.39	1.39	1.52	91			Shale, as above, with minor calcite filled fractures throughout				
137.46	0.42						Shale, as above, no calcite filled fractures, some silty bands				
	0.25	0.67	0.71	94			Shale, as above, broken				
138.17	0.12						Shale, as above, broken, slicked				
	1.04	1.16	1.22	95			Shale, as above, slicked along joints, not broken a few very fine grain sandstone lamini				
139.39	0.15						Shale, as above				
Box32	0.56	0.71	0.82	87			Shale, medium-dark grey, carbonaceous, trace plant fragments, with some sandstone interbeds, disturbed bedding, few coaly wisps slicked slightly calcareous with minor calcite filled fractures				
140.21	0.41						Shale, as above				
	0.56	0.97	0.91	107			Shale, as above, broken, slicked				
141.12	0.08						Shale, as above				
Box32	0.87	0.95	1.22	78			Shale, medium-dark grey, carbonaceous, has some very fine grain sandstone along fractures, some pyrite staining along fractures, slicks				
142.34	0.19						Shale, medium-dark grey, slightly carbonaceous, slightly silty, slicked, calcite filling along slicks				
	0.08						Shale, as above, broken, rubble zone				

DIAMOND [L RE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 115 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.71						Shale, dark grey to black, carbonaceous, slightly silty trace plant fragments, minor calcite filled fractures throughout, slicked in part				
Box33											
	0.71	1.69	1.77	95			Shale, as above, slicks throughout				
144.11											
	1.1	1.10	1.22	90			Shale, as above				
145.33											
	1.14	1.14	1.28	89			Shale, as above, slicks on all joints				
146.61											
	0.68						Shale, as above, no calcite filled fractures				
Box34											
	0.80	1.48	1.52	97			Shale, as above				
148.13											
	1.39						Shale, as above				
	0.10	1.49	1.53	97			Shale, as above, broken				
149.66											
	0.39						Shale, as above				
	0.91	1.30	1.52	86			Shale, as above, not broken, with 0.03 coal stringer at base				
151.18											
	0.25						Shale, as above, no coaly stringers				
Box35											
	0.40	0.65	0.85	76			Shale, dark grey to black, very carbonaceous, slicked in part, with some dull coaly stringers throughout broken to powdered				
152.03											
	0.50						Shale, dark grey to black, carbonaceous, slicked throughout, broken stick				
	0.92	1.42	1.59	89			Shale, dark grey to black, carbonaceous, plant fragments, slicked at base				
153.62											

DIAMOND DRILL RE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 115 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	1.48	1.48	1.52	97			Shale, as above, with 0.02 dull coaly shale stringer in middle				
155.14	0.53	0.83	1.53	54			Shale, silty, slicked, with minor calcite veins, stick				
	0.30						Shale, silty, numerous listric surface, broken				
156.67	0.05				157.12		Coal, dull, sheared, broken	156.67			
	0.30	0.92	1.61	57			Coal, dull with bright sheared, broken stick				
	0.27						Coal, dull, sheared in part, stick				
	0.30						Coal, dull, broken, sheared				
158.28	0.15						Coal, dull, broken sheared	192			
	0.54	1.29	1.53	84			Coal, dull, broken stick				
	0.20						Coal, dull, broken to powdery, sheared				
	0.40				159.80	20	Shale, silty, with minor calcite filled joints, slick in part, poorly bedded stick	159.41			
159.81	1.00	1.56	1.58	99			Shale, as above				
Box 37	0.56						Shale, as above				
161.39	1.50	1.50	1.62	93			Shale, as above				
163.01	1.50	1.50	1.58	95			Shale, as above				
164.59	0.90						Shale, as above with several slick surfaces, calcite filled, becoming carbonaceous towards base, abrupt below, stick				
	0.28	1.18	2.14	55	166.1		Coal, dull, broken stick, sheared in part	165.49			
166.73	0.80	0.80	1.21	66			Coal, dull, broken	193			

DIAMOND D L RE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 115 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
167.94	0.52						Coal, dull, sheared, broken stick	193			
	0.13	0.95	1.22	78			Coal, sheared, broken, fault contact below				
	0.15						Shale, carbonaceous, stick, slick	168.77			
	0.15				167.42		Coal, dull, broken				
169.16	1.00					40	Shale, silty, carbonaceous in part, with calcite filled veins				
Box 39	0.70	1.70	1.83	93			Shale, dark grey, carbonaceous, a few calcareous filled fractures				
170.99	0.87	0.87	1.36	64			Shale, as above				
172.35	0.67						Shale, as above, coaly at base	173.02			
	0.76	1.43	1.69	85	173.76		Coal, dull, slicked, broken				
174.04	0.78						Coal, dull, stick, 1 shale split at base	194			
Box 40	0.1	0.88	1.22	72			Coal, crushed, dull, slicked				
175.26	0.31	0.31	0.73	42	175.94		Shale, very dark grey, carbonaceous, slicks, broken	175.26			
175.99	1.21	1.21	1.1	110			Shale, very dark grey, carbonaceous, a few coaly wisps				
177.09	0.43						Shale, as above, broken, slicks				
	0.14						Shale, as above, stick				
	0.07						Shale, as above, broken				
	0.18	0.82	1.22	67			Shale, dark grey, carbonaceous, silty, carbonaceous plant debris, slightly calcareous				
178.31	0.98	1.20	1.22	98			Shale, as above				

DIAMOND .ILL RE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 115 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
Box41	0.22						Shale, as above, slicks				
179.53	0.81	0.81	0.91	89			Shale, as above, slicks				
180.44	1.58	1.58	1.47	107			Shale, as above, slicks, some calcareous filled Fractures				
181.91	0.97	0.97	1.27	76			Shale, very dark grey, carbonaceous, calcareous Filled fractures in middle, slightly silty				
183.18	0.15						Shale, as above				
Box42	0.36						Coal, dull, slightly shaly, slicked, broken	195			
	0.25						Shale, dark grey, carbonaceous, coaly wisps				
	0.30	1.06	1.22	87			Coal, dull, shaly, slicked, crushed with a .03 shale split near base	196			
184.40	0.47	0.47	1.53	31			Shale, dark grey, carbonaceous, slicks, calcareous filled fractures				
185.93	0.30	0.30	0.30	100			Shale, as above, broken				
186.23	1.05						Shale, as above, stick	187.28			
	0.37	1.42	1.52	93	182.76		Coal, dull, stick, slicks				
187.75	0.40	0.40	1.53	26			Coal, dull, slicked, broken stick				
189.28	0.07						Coal, crushed, dull, slicked	197			
Box43	1.00	1.07	1.52	70			Coal, dull, slicked, broken stick				
190.80											

DIAMOND HILL RE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 115 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.18						Coal, dull with bright, broken stick				
	0.20						Coal, dull, slicked, broken				
	0.14					50	Shale, very dark grey, carbonaceous, coaly				
	0.38						Coal, dull, broken stick				
	0.08						Coal, dull, powdered				
	0.12						Coal, dull, broken stick	197			
	0.13						Coal, dull, shaly, broken stick, slicked				
	0.03	1.26	1.53	82			Coal, dull, broken, slicked				
192.33											
	0.30						Coal, dull, slicks, broken stick				
	0.96	1.26	1.52	83	193.12		Shale, medium to dark grey, carbonaceous, slicks throughout	192.63			
193.85											
	0.18					54	Shale, as above				
Box44											
	1.36	1.54	1.54	100			Shale, as above, slightly silty				
195.38											
	1.51	1.51	1.52	99			Shale, as above				
196.90											
	0.26						Shale, as above				
	0.02						Shale, dary grey, very carbonaceous	197.68			
	0.08					197.70	Coal, dull with bright				
	0.81	1.17	1.52	77			Coal, dull, slicks, stick				
198.42											
Box45											
	0.35						Coal, dull, slicks, broken stick				
	0.19	0.54	1.53	35			Coal, dull, slicked, broken	198			
199.95											
	0.06						Coal, dull, slicked broken				
	1.15	1.21	1.52	80			Coal, dull, slicks, broken stick				
201.47											
	0.34						Coal, dull, broken stick				

DIAMOND HILL RE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 115 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.12				202.42		Shale, ver dark grey, carbonaceou, slicks				
	0.09						Shale, as above, broken				
	0.42	0.97	1.53	63			Shale, medium to dark grey, carbonaceous to coaly broken stick				
203.00											
	0.70						Shale, as above, slightly silty				
Box46											
	0.68	1.38	1.52	91			Shale, as above, a few slicks				
204.52											
	1.53	1.53	1.52	101			Shale, as above, a few calcareous filled fractures				
206.04											
	0.92					31	Shale, as above, with a few light grey silty beds at base				
	0.57					41	Shale, Sandstone, Siltstone, interbedded medium to dark grey carbonaceous shale and light grey very fine grain sandstone to siltstone				
	0.33	1.82	1.53	119							
207.57											
	0.33						Shale, Sandstone, Siltstone, as above, with a few minor calcareous filled fracture				
Box47											
	0.41						Shale, Siltstone, as above with a few minor calcareous filled fractures				
	0.19	0.93	1.16	80			Shale, dark grey, carbonaceous, slightly silty, slicked at top				
208.73											
	1.52	1.52	1.58	96		50-58	Sandstone/Siltstone medium grey siltstone, interbedded with very fine grain light grey sandstone, calcareous some cross-bedding, poorly bedded				
210.31											
	1.55	1.55	1.53	103			Sandstone/Siltstone, as above with a .2 m siltstone bed in middle, medium grey				

DIAMOND CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 115 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
211.84	0.15						Sandstone/Siltstone, as above				
Box 48	1.35	1.50	1.52	99		66	Sandstone/Siltstone, as above				
213.36	0.42						Sandstone, very fine grain, light grey with a few medium grey shale beds, calcareous filled fractures				
	0.15						Shale, medium to dark grey, carbonaceous, silty				
	0.21						Sandstone, medium to light grey, fine grain abundant carbonaceous shaly wisps and a few calcareous filled fractures, calcareous				
	0.57	1.35	1.52	89			Siltstone medium grey, with a .1 m sand unit in middle very fine grain with suspended shale fragments calcareous				
214.88	0.12						Sandstone, light grey very fine grain with a few silty bands medium grey, calcareous				
	1.06					47	Siltstone, medium to dark grey, with a few light grey very fine grain sandstone beds and 6 calcareous filled fractures, siltstone is very calcareous				
	0.12						Sandstone, light grey matrix, salt and pepper, medium grained, abundant carbonaceous shale wisps, medium grey shale fragments and calcareous filled fractures				
	0.16	1.46	1.71	85			Siltstone, medium to dark grey, calcareous				
216.59											
Box 49	1.36						Siltstone, as above				
	0.06	1.42	1.53	93			Shale, medium to dark grey, carbonaceous, slightly silty				
218.11											
	0.58						Shale, as above, becoming more silty toward base, calcareous				

DIAMOND WELL CORE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 115 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.78						Siltstone, medium to dark grey, becoming sandy at base, very fine grain calcareous				
	0.12	1.48	1.53	97			Sandstone, very fine grain slightly silty, medium to light grey, minor calcareous filled fractures, calcareous				
219.64											
	0.12						Sandstone, as above, more silty at base				
	1.13					54	Siltstone, medium to dark grey, a few light grey very fine grain sandstone beds, poorly defined, calcareous				
Box50											
	0.28	1.53	1.58	97			Siltstone, as above				
221.22											
	1.5	1.50	1.53	98		50	Siltstone, as above, a few dark grey slightly carbonaceous beds at base				
222.75											
	0.28						Sandstone, light grey with a few medium grey, carbonaceous beds, very fine grain, calcareous filled fractures calcareous filled joint				
	1.20	1.48	1.58	94			Siltstone, medium to dark grey, becoming more shaly toward base				
224.33											
0.73	0.73						Siltstone, as above, shaly at top				
	0.26					58	Siltstone/Shale, medium grey siltstone and light grey very fine grain sandstone, poorly bedded				
Box51											
	0.52	1.51	1.53	99			Siltstone/Sandstone as above, predominantly siltstone in lower 1/2, calcareous				
225.86											
	0.06						Siltstone, medium grey, sandy very fine grain calcareous				

DIAMOND ILL RE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 115 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.10						Sandstone, very fine grain, light grey with minute carbonaceous wisps, 1 calcite filled fracture, calcareous				
	0.15						Shale, very dark grey, carbonaceous, calcareous				
	0.81						Sandstone, medium grain, salt and pepper, few calcite filled fractures, calcareous, few poorly defined slightly carbonaceous beds				
	0.08					58	Siltstone, medium to dark grey, few light grey very fine grain sandstone bands, slicked at top and bottom				
	0.20	1.40	1.52	92			Sandstone, light grey matrix, salt and pepper, medium grain, few carbonaceous beds				
227.38											
	0.34						Sandstone, as above with few calcite filled fractures calcareous				
	0.57						Siltstone, medium to dark grey, few calcite filled fractures, calcareous				
	0.19					55	Sandstone, fine grain, carbonaceous wisps, calcareous with few calcite filled fractures				
	0.47	1.57	1.52	103			Siltstone medium to dark grey, few light grey very fine grain sandstone beds, shaly toward base				
228.90											
	0.67						Shale, medium to dark grey, silty with few very thin very fine grain, light grey, sandstone beds at top, few minor calcite filled fractures at top, calcareous				
Box 52											
	0.85	1.52	1.53	99		58	Shale, with silty laminae, moderate bedding, occasional minor calcite filled fractures				
230.43											
	1.40	1.40	1.22	115			Shale, as above				
231.65											
	0.66	1.26	1.83	69			Shale, as above				
	0.30						Shale, carbonaceous with coaly stringers slicked below	33.05			
	0.30				33.68		Coal, dull, broken-powdery SEAM #8 OVERTHICK	307			

DIAMOND HILL RE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 115 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
233.48											
	0.25						Coal, dull with bright, broken, slicked				
	0.16	0.86	1.52	57			Coal, dull, broken	207			
	0.22						Coal, dull with bright, broken stick				
	0.23						Coal, dull, broken - powdery slicked				
235.00											
	0.66						Coal, dull with bright, slicked, broken stick	235			
	0.06	0.72	1.52	47			Coal, sheared				
236.52											
	0.05						Coal, dull, sheared broken	208			
	0.05						Shale, carbonaceous, broken				
	0.35	0.73	1.53	48			Coal, dull, sheared broken				
	0.28						Coal, dull, powdery				
238.05								238.05			
	0.06	0.06	1.52	4	338.88		Shale, carbonaceous, slicked, broken				
239.57								239.57			
	0.05						Coal, dull with bright, broken				
	0.35	0.63	1.53	41			Coal, dull, broken stick				
	0.23						Coal, dull, broken to powdered	209			
241.10											
	0.04						Coal, dull, broken				
	0.43						Coal, dull broken stick				
	0.25						Coal, shaley, powdery				
	0.15	0.87	1.52	57			Coal, dull, broken stick				
242.62								242.62			
	0.12						Coal, dull, broken stick				
Box 54											
	0.1						Coal, dull, sheared broken stick	210			
	0.28						Coal, dull, sheared broken to powdery				
	0.48	1.06	1.52	70			Coal, dull with bright broken stick				
	0.08						Coal, dull, broken to powdery				
244.14											

DIAMOND ILL RE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 115 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.2						Coal, dull, broken sheared				
	0.15						Coal, dull, sheared powdery				
	0.08						Coal, dull, broken stick, sheared	210			
	0.10	0.60	1.53	39			Coal, dull, powdery				
	0.07						Coal, dull, broken				
245.67								245.67			
	0.11						Coal, dull, broken				
	0.32						Coal, sheared, broken stick				
	0.15	0.64	1.52	42			Coal, powdery				
	0.06						Coal, dull, broken sheared	211			
247.19											
	0.72	0.92	1.53	60			Coal, completely sheared and convoluted, broken				
	0.20						Coal, dull, broken to powdery				
248.72								248.72			
	0.10						Coal, broken to powdery				
	0.36	0.86	1.52	57			Coal, dull, broken stick				
	0.10						Coal, dull, broken to powdery sheared				
	0.30						Coal, dull, broken stick				
250.24											
	0.1						Coal, dull, sheared broken	212			
	0.03						Shale, carbonaceous, broken stick				
	0.22						Coal, dull, broken to powdery				
	0.10	0.62	1.52	41			Coal, dull broken stick				
	0.05						Coal, powdery				
	0.12						Coal, dull broken				
251.76								251.76			
	0.1						Coal, dull, broken				
	0.16	0.89	1.53	58			Coal, sheared, broken				
	0.63						Coal, dull, sheared broken	213			
253.29											
	0.26						Coal, sheared				
	0.30	0.56	1.52	37			Coal, dull and bright broken to powdery				

DIAMOND ILL RE LOG
(ALL ANGLES MEASURED FROM CORE AXIS)

HOLE No: LC 115 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
254.81	0.02	0.02	1.50	1			Shale, carbonaceous, broken				
256.31	0.05	0.05	1.55	3			Coal, dull, sheared broken				
257.86	0.2						Coal, dull sheared, broken stick	25786			
	0.16	0.42	1.52	28			Coal, dull, shaley sheared broken to powdered				
	0.06						Shale, carbonaceous sheared and slicked				
259.38	0.13						Coal, dull, broken sheared	214			
	0.20	0.33	1.53	22			Coal, as above				
260.91	0.34						Coal, dull sheared, broken stick	26091			
	0.10	0.54	1.52	36			Shale, carbonaceous, oolitic texture	215			
	0.10						Coal, dull with bright				
262.43	0.33						Shale, carbonaceous, sheared	26243			
	0.15	0.48	1.22	39			Siltstone, shaley carbonaceous with coal stirngers				
263.65	0.05						Siltstone, as above				
	0.50	0.58	1.22	48			Shale, silty carbonaceous with numerous sheared surfaces				
	0.03						Siltstone, very carbonaceous oolitic texture				
264.87	0.10						Coal, sheared, broken to powdery				
	0.13	0.29	0.61	48			Shale, silty carbonaceous with oolitic texture, stick				
	0.06						Shale, as above, broken				
265.48	0.23						Coal, dull, broken stick	26548			
	0.16						Coal, sheared powdery to broken				
	0.18						Coal, powdery	216			
	0.05	0.79	1.52	52			Coal, dull sheared stick				

DIAMOND DRILL CORE LOG
(ALL ANGLES MEASURED ON CORE AXIS)

HOLE No: LC 115 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: _____

MARKER BLOCKS	UNIT THICK.	RECOVD. THICK.	ACTUAL THICK.	% REC.	FINAL TOPS	BEDDING ANGLE	LITHOLOGY, ROCK TYPE, GRAIN SIZE, COLOUR, WEATHERING, GOUGE & SLICKS, BROKEN CORE.	SAMPLE No.	JOINTING	HARDNESS	FRACT. FREQ.
	0.15						Coal, dull, powdery tobrken				
	0.02						Siltstone, shaley carbonaceous "oolitic" texture, stick				
267.00								216			
	0.14						Siltstone, as above				
	0.15						Coal, shaley sheared broken to powdery				
	0.05	0.51	1.53	33			Coal, as above				
	0.17						Shale, carbonaceous, slicked, broken stick	268.01			
268.53											
	1.31	1.31	1.52	86			Shale, silty, poorly bedded, occasional calcite vein, coal stringers slicked in part				
270.05											
	0.96	0.99	1.53	65			Shale, as above	270.53			
	0.03						Coal, shaley, slicked sheared				
271.58											
	0.5						Coal, sheared, broken				
	0.08						Coal, shaley, sheared broken				
	0.15						Coal, sheared, broken				
	0.05						Coal, dull, sheared and broken				
	0.26						Shale, carbonaceous, sheared broken				
Box58								217			
	0.10						Shale, as above				
	0.07	1.36	3.04	45			Coal, sheared				
	0.05						Shale, carbonaceous				
	0.10						Coal, sheared broken to powdery				
274.62											
	0.03						Shale, carbonaceous, broken				
	0.16						Coal, shaley, sheared and broken				
	0.30	0.75	1.53	49			Coal, dull sheared powdery to broken				
	0.26				274.72		Coal, dull sheared powdery	276.15			
276.15											
							T.D.				

K-SHEW-LINE CREEK
HORSE HEAD (DOR)
419
COAL QUANTITY
1926

419

CROWS NEST RESOURCES ANALYSIS REPORT

AREA: Line Creek

HOLE NO. LC 100

DATE: July 6, 1978

ANALYST: Ken McCullough

LAB NO.	SAMPLE NO.	SEAM	INTERVAL (METRES)	FRACTION	% AIR DRY MOIST	% RESID. MOIST.	% ASH d.b.	% V.M.	% F.C.	F.S.I.	% YIELD
78-7	7	10B	133.26 - 137.92	RAW		1.35	26.99	19.33		2	47.45
				1.4 FLOAT		1.50	5.84			6½	47.45
				1.4 SINK							52.55
				1.5 FLOAT		1.50	8.30			4½	63.96
				1.5 SINK							36.04
				1.6 FLOAT		1.50	9.27			4½	70.90
				1.6 SINK							29.10
78-8	8	10A	145.64 - 148.46	RAW		1.46	21.82	19.74		1½	27.92
				1.4 FLOAT		1.50	7.38			2½	27.92
				1.4 SINK							72.08
				1.5 FLOAT		1.50	12.25			1½	62.87
				1.5 SINK							37.13
				1.6 FLOAT		1.50	14.36			1½	80.67
				1.6 SINK							19.33
				RAW							19.33
				1.4 FLOAT							
				1.4 SINK							
				1.5 FLOAT							
				1.5 SINK							
				1.6 FLOAT							

CROWS NEST RESOURCES ANALYSIS REPORT

AREA: LINE CREEK

HOLE NO. LC-101

DATE: JULY 24, 1978

ANALYST: Ken McCullough

LAB NO.	SAMPLE NO.	SEAM	INTERVAL (METRES)	FRACTION	% AIR DRY MOIST	% RESID. MOIST.	% ASH d.b.	% V.M.	% F.C.	F.S.I.	% YIELD
78-14	13	6	29.44 - 31.45	RAW		1.50	20.28			0	X
				1.4 FLOAT		1.50	4.27	25.44		½	59.72
				1.4 SINK							40.28
				1.5 FLOAT		1.50	5.50	25.01		½	70.19
				1.5 SINK							29.81
				1.6 FLOAT		1.50	5.67	24.36		½	71.91
				1.6 SINK							28.09
78-15	14	7 (Upper)	53.75 -- 56.10 2.35	RAW		1.50	23.79			4½	X
				1.4 FLOAT		1.50	5.03	24.34		7½	53.37
				1.4 SINK							46.63
				1.5 FLOAT		1.50	6.91	23.90		6½	60.53
				1.5 SINK							39.47
				1.6 FLOAT		1.50	9.55	23.02		5½	67.99
				1.6 SINK							32.01
						8.68					
78-16	15	7 (Split)	56.10 - 56.67 avg.	RAW		1.50	81.84			0	X
				1.4 FLOAT							
				1.4 SINK							
				1.5 FLOAT							
				1.5 SINK							
				1.6 FLOAT							
				1.6 SINK							

CROWS NEST RESOURCES ANALYSIS REPORT

AREA: LINE CREEK

HOLE NO. LC-101 DATE: JULY 24, 1978

ANALYST: Ken McCullough

LAB NO.	SAMPLE NO.	SEAM	INTERVAL (METRES)	FRACTION	% AIR DRY MOIST	% RESID. MOIST.	% ASH d.b.	% V.M.	% F.C.	F.S.I.	% YIELD
78-17	16	7 (Lower)	56.67 - 61.97 5.3.	RAW		1.50	22.17			7	
				1.4 FLOAT		1.50	7.86	25.26		8	53.13
				1.4 SINK							46.87
				1.5 FLOAT		1.50	9.47	24.79		7	64.21
				1.5 SINK							35.79
				1.6 FLOAT		1.50	11.74	24.10		7	73.20
				1.6 SINK							26.80
78-23	19	10A	243.8 - 244.0	RAW		1.50	40.85			1	
				1.4 FLOAT							0.0
				1.4 SINK							100.0
				1.5 FLOAT							0.0
				1.5 SINK							100.0
				1.6 FLOAT							
				1.6 SINK							
78-24	20	10A	244.0 - 247.9	RAW		1.50	19.09			7	
				1.4 FLOAT		1.50	8.33			8	41.63
				1.4 SINK							58.37
				1.5 FLOAT		1.50	12.43			7	75.63
				1.5 SINK							24.37
				1.6 FLOAT							
				1.6 SINK							

CROWS NEST RESOURCES ANALYSIS REPORT

AREA: LINE CREEK

HOLE NO. LC-101

DATE: JULY 24, 1978

ANALYST: Ken McCullough

LAB NO.	SAMPLE NO.	SEAM	INTERVAL (METRES)	FRACTION	% AIR DRY MOIST	% RESID. MOIST.	% ASH d.b.	% V.M.	% F.C.	F.S.I.	% YIELD
78-25	24	9	228.69 - 206.4	RAW		1.50	25.12			6½	XXXX
				1.4 FLOAT		1.50	5.45	23.62		7½	55.79
				1.4 SINK							44.21
				1.5 FLOAT		1.50	7.04	23.45		7½	66.71
				1.5 SINK							33.29
				1.6 FLOAT		1.50	8.47	23.05		7	67.86
				1.6 SINK							32.14
78-26	26	10B (Upper)	227.45 - 228.3 .85 Ave.	RAW		1.50	14.84			7½	XXXX
				1.4 FLOAT		1.50	2.83			8	72.97
				1.4 SINK							27.03
				1.5 FLOAT		1.50	2.98			7	75.64
				1.5 SINK							24.36
				1.6 FLOAT							
				1.6 SINK							
						8.92					
78-27	27	10B (Split)	228.3 - 228.77	RAW		1.50	73.24			0	XXXX
				1.4 FLOAT							
				1.4 SINK							
				1.5 FLOAT							
				1.5 SINK							
				1.6 FLOAT							
				1.6 SINK							

CROWS NEST RESOURCES ANALYSIS REPORT

AREA: LINE CREEK

HOLE NO. LC-101

DATE: JULY 24, 1978

ANALYST: Ken McCullough

LAB NO.	SAMPLE NO.	SEAM	INTERVAL (METRES)	FRACTION	% AIR DRY MOIST	% RESID. MOIST.	% ASH d.b.	% V.M.	% F.C.	F.S.I.	% YIELD
78-28	28	10B (Lower)	228.77 - 232.39 <i>3.62.</i>	RAW		1.50	19.49			7	XXXX
				1.4 FLOAT		1.50	7.48	23.70		8	51.47
				1.4 SINK							48.53
				1.5 FLOAT		1.50	10.31	22.92		7½	68.99
				1.5 SINK							31.01
				1.6 FLOAT		1.50	11.95	22.16		7½	77.23
				1.6 SINK							22.77
78-29	29	8 (Upper)	157.91 - 159.18 <i>1.21</i>	RAW		1.50	23.63			1½	XXXX
				1.4 FLOAT		1.50	5.37			3½	37.78
				1.4 SINK							62.22
				1.5 FLOAT		1.50	8.28			2½	53.76
				1.5 SINK							46.24
				1.6 FLOAT							
				1.6 SINK							
78-30	30	8 (Upper)	159.18 - 162.60 <i>3.42</i>	RAW		1.50	16.07			4½	XXXX
				1.4 FLOAT		1.50	5.92			6½	52.14
				1.4 SINK							47.86
				1.5 FLOAT		1.50	8.54			5½	79.91
				1.5 SINK							20.09
				1.6 FLOAT							
				1.6 SINK							

CROWS NEST RESOURCE ANALYSIS REPORT

AREA: LINE CREEK

HOLE NO. LC-101

DATE: JULY 24, 1978

ANALYST: Ken McCullough

LAB NO.	SAMPLE NO.	SEAM	INTERVAL (METRES)	FRACTION	% AIR DRY MOIST	% RESID. MOIST.	% ASH d.b.	% V.M.	% F.C.	F.S.I.	% YIELD		
78-31	31	8 (Split)	162.6 - 162.93	RAW		1.50	70.55			1	X		
				1.4 FLOAT									
				1.4 SINK									
				1.5 FLOAT									
				1.5 SINK									
				1.6 FLOAT									
				1.6 SINK									
							comp.			7.91			
78-32	32	8 (Lower)	162.93 - 164.25	RAW		1.50	12.55			3	X		
				1.4 FLOAT		1.50	5.37		4	71.42			
				1.4 SINK						28.58			
				1.5 FLOAT		1.50	5.94		3½	83.75			
				1.5 SINK						16.25			
				1.6 FLOAT									
				1.6 SINK									
							avg.			7.58			
78-33	33	8 (Lower)	164.25 - 170.70	RAW		1.50	14.30			4½	X		
				1.4 FLOAT		1.50	5.53		4	70.84	(6 F.S.I.		
				1.4 SINK						29.16	were done)		
				1.5 FLOAT		1.50	7.91		4½	82.60			
				1.5 SINK						17.40			
				1.6 FLOAT									
				1.6 SINK									
							645						

CROWS NEST RESOURCES ANALYSIS REPORT

AREA: LINE CREEK

HOLE NO. LC-102

DATE: July 11, 1978

ANALYST: Ken McCullough

LAB NO.	SAMPLE NO.	SEAM	INTERVAL (METRES)	FRACTION	% AIR DRY MOIST	% RESID. MOIST.	% ASH d.b.	% V.M.	% F.C.	F.S.I.	% YIELD
78-12	12	8L	88.3 - 92.8 <i>4.5</i>	RAW		1.50	15.19			2	64.72
				1.4 FLOAT		1.50	6.80			2½	64.72
				1.4 SINK							35.28
				1.5 FLOAT		1.50	8.98			2	84.17
				1.5 SINK							15.83
				1.6 FLOAT							
				1.6 SINK							
			<i>avg.</i>				<i>8.56</i>				
78-13	17	9	133.24 - 138.50	RAW		1.50	19.17			5	65.72
				1.4 FLOAT		1.50	6.27	21.17		7	65.72
				1.4 SINK							34.28
				1.5 FLOAT		1.50	8.59	21.54		7	81.00
				1.5 SINK							19.00
				1.6 FLOAT		1.50	9.58	20.91		7	84.29
				1.6 SINK							15.71
78-18	18	Extra Small Stringer	183.57 - 185.02	RAW		1.50	17.28			8	65.43
				1.4 FLOAT		1.50	8.60			9	65.43
				1.4 SINK							34.57
				1.5 FLOAT		1.50	10.27			9	79.26
				1.5 SINK							20.74
				1.6 FLOAT							

CROWS NEST RESOURCES ANALYSIS REPORT

AREA: LINE CREEK

HOLE NO. LC-103

DATE: August 14, 1978

ANALYST: Ken McCullough

LAB NO.	SAMPLE NO.	SEAM	INTERVAL (METRES)	FRACTION	% AIR DRY MOIST	% RESID. MOIST.	% ASH d.b.	% V.M.	% F.C.	F.S.I.	% YIELD
78-62	62	6 U	3.07 - 6.10	RAW		1.50	19.31			0	X
				1.4 FLOAT		1.50	5.16			0	42.74
				1.4 SINK							57.26
				1.5 FLOAT		1.50	7.42			0	66.99
				1.5 SINK							33.01
				1.6 FLOAT							
				1.6 SINK							
8-63	63	6 (SPAIT)	6.10 - 7.62	RAW		1.50	61.23			0	X
				1.4 FLOAT		1.50	7.11			1/2	5.93
				1.4 SINK							94.07
				1.5 FLOAT		1.50	11.73			1/2	13.48
				1.5 SINK							86.52
				1.6 FLOAT							
				1.6 SINK							
8-64	64	6 L	7.62 - 8.64 1.02	RAW		1.50	14.43			0	X
				1.4 FLOAT		1.50	4.03			1/2	51.37
				1.4 SINK							48.63
				1.5 FLOAT		1.50	5.02			1/2	74.28
				1.5 SINK							25.72
				1.6 FLOAT							
				1.6 SINK							

CROWS NEST RESOURCES ANALYSIS REPORT

AREA: LINE CREEK

HOLE NO. LC-103

DATE: AUGUST 14, 1978

ANALYST: Ken McCullough

LAB NO.	SAMPLE NO.	SEAM	INTERVAL (METRES)	FRACTION	% AIR DRY MOIST	% RESID. MOIST.	% ASH d.b.	% V.M.	% F.C.	F.S.I.	% YIELD
3-65	65	6L	8.64 - 8.86 .22	RAW		1.50	87.47			0	X
				1.4 FLOAT						0	
				1.4 SINK						100	
				1.5 FLOAT							
				1.5 SINK							
				1.6 FLOAT							
				1.6 SINK							
				avg.			5.60				
3-66	66	6L	8.86 11.19 2.33	RAW		1.50	24.34			0	X
				1.4 FLOAT		1.50	4.02		½	33.47	
				1.4 SINK						66.53	
				1.5 FLOAT		1.50	5.85		½	57.23	
				1.5 SINK						42.77	
				1.6 FLOAT							
				1.6 SINK							
3-67	67	7	30.57 - 32.20 1.63	RAW		1.50	26.83			3	X
				1.4 FLOAT		1.50	5.89		6½	43.47	
				1.4 SINK						56.53	
				1.5 FLOAT		1.50	8.23		4½	56.56	
				1.5 SINK						43.44	
				1.6 FLOAT							
				1.6 SINK							

32.20 - 32.93
1.73

CROWS NEST RESOURCES ANALYSIS REPORT

AREA: LINE CREEK

HOLE NO. LC-103

DATE: AUGUST 14, 1978

ANALYST: Ken McCullough

LAB NO.	SAMPLE NO.	SEAM	INTERVAL (METRES)	FRACTION	% AIR DRY MOIST	% RESID. MOIST.	% ASH d.b.	% V.M.	% F.C.	F.S.I.	% YIELD
8-68	68	7	32.93 - 34.01 1.08	RAW		1.50	29.51			4	X
				1.4 FLOAT		1.50	8.64		8	35.92	
				1.4 SINK						64.08	
				1.5 FLOAT		1.50	12.29		7½	54.23	
				1.5 SINK						45.77	
				1.6 FLOAT							
				1.6 SINK							
				avg.			9.73				
8-69	69	7	34.01 - 34.26 .25	RAW		1.50	56.28			0	X
				1.4 FLOAT						0	
				1.4 SINK						100	
				1.5 FLOAT							
				1.5 SINK							
				1.6 FLOAT							
				1.6 SINK							
8-70	70	7	34.26 - 35.66 1.4	RAW		1.50	25.03			2	X
				1.4 FLOAT		1.50	6.53		3½	45.21	
				1.4 SINK						54.79	
				1.5 FLOAT		1.50	9.50		3	63.62	
				1.5 SINK						36.38	
				1.6 FLOAT							

CROWS NEST RESOURCES ANALYSIS REPORT

AREA: LINE CREEK

HOLE NO. LC-103

DATE: AUGUST 14, 1978

ANALYST: Ken McCullough

LAB NO.	SAMPLE NO.	SEAM	INTERVAL (METRES)	FRACTION	% AIR DRY MOIST	% RESID. MOIST.	% ASH d.b.	% V.M.	% F.C.	F.S.I.	% YIELD
8-77	77	8U	133.2 - 134.29 <i>1.09</i>	RAW		1.50	43.51			2	XXXX
				1.4 FLOAT		1.50	7.05			7½	38.69
				1.4 SINK							61.31
				1.5 FLOAT		1.50	9.05			7	45.96
				1.5 SINK							54.04
				1.6 FLOAT							
				1.6 SINK							
			<i>avg</i>			8.51					
8-78	78	8U	134.29 - 138.8 <i>4.51</i>	RAW		1.50	17.80			6	XXXX
				1.4 FLOAT		1.50	5.98			7½	60.21
				1.4 SINK							39.79
				1.5 FLOAT		1.50	8.38			6	78.70
				1.5 SINK							21.30
				1.6 FLOAT							
				1.6 SINK							
			<i>comp.</i>			8.10					
8-79	79	8S	138.8 - 139.46	RAW		1.50	76.35			½	XXXX
				1.4 FLOAT							
				1.4 SINK							
				1.5 FLOAT							
				1.5 SINK							
				1.6 FLOAT							
				1.6 SINK							

CROWS NEST RESOURCES ANALYSIS REPORT

AREA: LINE CREEK

HOLE NO. LC-103

DATE: AUGUST 14, 1978

ANALYST: Ken McCullough

LAB NO.	SAMPLE NO.	SEAM	INTERVAL (METRES)	FRACTION	% AIR DRY MOIST	% RESID. MOIST.	% ASH d.b.	% V.M.	% F.C.	F.S.I.	% YIELD
8-83	83	9	196.71 - 197.74	RAW		1.50	80.16			0	X
				1.4 FLOAT							
				1.4 SINK							
				1.5 FLOAT							
				1.5 SINK							
				1.6 FLOAT							
				1.6 SINK							
8-84	84	9	197.74 199.48 1.74 avg	RAW		1.50	17.00			6½	X
				1.4 FLOAT		1.50	5.70			7½	63.73
				1.4 SINK							36.27
				1.5 FLOAT		1.50	7.37			7	76.81
				1.5 SINK							23.19
				1.6 FLOAT							
				1.6 SINK							
						7.92.					
8-85	85	10B (Upper)	216.29 - 216.60 2)	RAW		1.50	13.63			6	X
				1.4 FLOAT		1.50	4.76			6½	76.44
				1.4 SINK							23.56
				1.5 FLOAT		1.50	5.54			6½	81.53
				1.5 SINK							18.47
				1.6 FLOAT							
				1.6 SINK							

CROWS NEST RESOURCES ANALYSIS REPORT

AREA: LINE CREEK

HOLE NO. LC-103

DATE: AUGUST 14, 1978

ANALYST: Ken McCullough

LAB NO.	SAMPLE NO.	SEAM	INTERVAL (METRES)	FRACTION	% AIR DRY MOIST	% RESID. MOIST.	% ASH d.b.	% V.M.	% F.C.	F.S.I.	% YIELD
8-86	86	10B (Split)	216.60 - 217.07	RAW		1.50	71.18			0	
				1.4 FLOAT							
				1.4 SINK							
				1.5 FLOAT							
				1.5 SINK							
				1.6 FLOAT							
				1.6 SINK							
8-87	87	10B (Lower)	217.07 - 221.22	RAW		1.50	14.65			6	
				1.4 FLOAT		1.50	7.90			6½	70.01
				1.4 SINK							29.99
				1.5 FLOAT		1.50	10.18			6½	83.93
				1.5 SINK							16.07
				1.6 FLOAT							
				1.6 SINK							
			avg.			9.86					
8-88	88	10-A	227.94 - 231.52	RAW		1.50	18.13			6	
				1.4 FLOAT		1.50	7.84			6½	45.88
				1.4 SINK							54.12
				1.5 FLOAT		1.50	11.98			7	79.23
				1.5 SINK							20.77
				1.6 FLOAT							
				1.6 SINK							

CROWS NEST RESOURCES ANALYSIS REPORT

AREA: LINE CREEK

HOLE NO. LC-104

DATE: AUGUST 8/78

ANALYST: Ken McCullough

LAB NO.	SAMPLE NO.	SEAM	INTERVAL (METRES)	FRACTION	% AIR DRY MOIST	% RESID. MOIST.	% ASH d.b.	% V.M.	% F.C.	F.S.I.	% YIELD	
78-46	46	8 (Upper)	101.79 - 102.72 <i>.93</i>	RAW		1.50	36.89				1½	XXXX
				1.4 FLOAT		1.50	8.04			6	33.93	
				1.4 SINK							66.07	
				1.5 FLOAT		1.50	11.69			5	51.31	
				1.5 SINK							48.69	
				1.6 FLOAT								
				1.6 SINK								
							<i>avg</i>			<i>8.83</i>		
78-47	47	8 (Upper)	102.72 - 107.41 <i>A.69</i>	RAW		1.50	18.96				5	XXXX
				1.4 FLOAT		1.50	5.60			7	58.37	
				1.4 SINK							41.63	
				1.5 FLOAT		1.50	8.26			7	76.41	
				1.5 SINK							23.59	
				1.6 FLOAT								
				1.6 SINK								
							<i>comp.</i>			<i>8.49</i>		
78-48	48	8 (Lower)	108.67 - 109.48 <i>.81</i>	RAW		1.50	15.23				1½	XXXX
				1.4 FLOAT		1.50	6.39			2½	65.91	
				1.4 SINK							34.09	
				1.5 FLOAT		1.50	7.58			2½	74.39	
				1.5 SINK							25.61	
				1.6 FLOAT								
				1.6 SINK								

CROWS NEST RESOURCES ANALYSIS REPORT

AREA: LINE CREEK

HOLE NO. LC-104

DATE: AUGUST 8/78

ANALYST: Ken McCullough

LAB NO.	SAMPLE NO.	SEAM	INTERVAL (METRES)	FRACTION	% AIR DRY MOIST	% RESID. MOIST.	% ASH d.b.	% V.M.	% F.C.	F.S.I.	% YIELD
78-52	52	10B (Upper)	186.54-187.00	RAW		1.50	20.53			1½	61.06
				1.4 FLOAT		1.50	4.64			1½	61.06
				1.4 SINK							38.94
				1.5 FLOAT		1.50	5.22			1½	70.09
				1.5 SINK							29.91
				1.6 FLOAT							
				1.6 SINK							
			<i>avg.</i>			9.65					
78-53	53	10B (Split)	187.00-187.86	RAW		1.50	70.61			0	61.06
				1.4 FLOAT							
				1.4 SINK							
				1.5 FLOAT							
				1.5 SINK							
				1.6 FLOAT							
				1.6 SINK							
78-54	54	10B (Lower)	187.86-191.43	RAW		1.50	18.13			7	61.06
				1.4 FLOAT		1.50	7.99			8	57.46
				1.4 SINK							42.54
				1.5 FLOAT		1.50	10.22			7½	77.70
				1.5 SINK							22.30
				1.6 FLOAT							
				1.6 SINK							

CROWS NEST RESOURCES ANALYSIS REPORT

AREA: LINE CREEK

HOLE NO. LC-104

DATE: AUGUST 8/78

ANALYST: Ken McCullough

LAB NO.	SAMPLE NO.	SEAM	INTERVAL (METRES)	FRACTION	% AIR DRY MOIST	% RESID. MOIST.	% ASH d.b.	% V.M.	% F.C.	F.S.I.	% YIELD	
78-57	57	10A (?) Was not marked on sample	202.34- 206.05	RAW		1.50	19.17				6	XXXX
				1.4 FLOAT		1.50	8.36	21.77		8	40.20	
				1.4 SINK							59.80	
				1.5 FLOAT		1.50	11.99	21.26		7½	66.90	
				1.5 SINK							33.10	
				1.6 FLOAT		1.50	15.38	20.39		5½	84.11	
				1.6 SINK							15.89	
				RAW							XXXX	
				1.4 FLOAT								
				1.4 SINK								
				1.5 FLOAT								
				1.5 SINK								
				1.6 FLOAT								
				1.6 SINK								
				RAW							XXXX	
				1.4 FLOAT								
				1.4 SINK								
				1.5 FLOAT								
				1.5 SINK								
				1.6 FLOAT								
				1.6 SINK								

CROWS NEST RESOURCES ANALYSIS REPORT

AREA: LINE CREEK

HOLE NO. LC-105

DATE: JULY 28, 1978

ANALYST: Ken McCullough

LAB NO.	SAMPLE NO.	SEAM	INTERVAL (METRES)	FRACTION	% AIR DRY MOIST	% RESID. MOIST.	% ASH d.b.	% V.M.	% F.C.	F.S.I.	% YIELD	
78-35	35	8 (Upper)	62.57 - 63.57 1.0	RAW		2.98	40.11				0	
				1.4 FLOAT		1.50	5.03			1½	14.59	
				1.4 SINK							85.41	
				1.5 FLOAT		1.50	9.41			1½	34.71	
				1.5 SINK							65.29	
				1.6 FLOAT								
				1.6 SINK								
										7.92		
78-36	36	8 (Upper)	63.57 - 68.06 4.49	RAW		2.04	16.16				1½	
				1.4 FLOAT		1.50	4.93			2	53.89	
				1.4 SINK							46.11	
				1.5 FLOAT		1.50	7.59			2	75.77	
				1.5 SINK							24.23	
				1.6 FLOAT								
				1.6 SINK								
										7.96		
78-37	37	8 (Split)	68.06 - 68.74	RAW			82.71				0	
				1.4 FLOAT								
				1.4 SINK								
				1.5 FLOAT								
				1.5 SINK								
				1.6 FLOAT								
				1.6 SINK								

avg

comp.

CROWS NEST RESOURCES ANALYSIS REPORT

AREA: LINE CREEK

HOLE NO. LC-105

DATE: JULY 28, 1978

ANALYST: Ken McCullough

LAB NO.	SAMPLE NO.	SEAM	INTERVAL (METRES)	FRACTION	% AIR DRY MOIST	% RESID. MOIST.	% ASH d.b.	% V.M.	% F.C.	F.S.I.	% YIELD
78-41	41	10B (Upper)	139.3 - 139.97 67	RAW		1.50	12.46			2	X
				1.4 FLOAT		1.50	3.61		2½	67.91	
				1.4 SINK						32.09	
				1.5 FLOAT		1.50	4.21		2	78.16	
				1.5 SINK						21.84	
				1.6 FLOAT							
				1.6 SINK							
				avg.			9.37				
78-42	42	10B (Split)	139.97 - 140.27	RAW			81.87			0	X
				1.4 FLOAT							
				1.4 SINK							
				1.5 FLOAT							
				1.5 SINK							
				1.6 FLOAT							
				1.6 SINK							
78-43	43	10B (Lower)	140.27 - 144.64 4.37	RAW		1.50	16.56			7	X
				1.4 FLOAT		1.50	7.52	22.78	8	60.03	
				1.4 SINK						39.97	
				1.5 FLOAT		1.50	10.16	21.97	7½	80.26	
				1.5 SINK						19.74	
				1.6 FLOAT			10.46		7		
				1.6 SINK							

CROWS NEST RESOURCES ANALYSIS REPORT

AREA: LINE CREEK

HOLE NO. JC-105

DATE: JULY 28, 1978

ANALYST: Ken McCullough

LAB NO.	SAMPLE NO.	SEAM	INTERVAL (METRES)	FRACTION	% AIR DRY MOIST	% RESID. MOIST.	% ASH d.b.	% V.M.	% F.C.	F.S.I.	% YIELD
78-44	44	10A	153.66 - 156.66	RAW		1.50	19.73			5	39.92
				1.4 FLOAT		1.50	-	20.96		7	39.92
				1.4 SINK							60.08
				1.5 FLOAT		1.50	12.78	20.40		6½	73.91
				1.5 SINK							26.09
				1.6 FLOAT		1.50	15.15	19.90		5	83.62
				1.6 SINK							16.38
				RAW							39.92
				1.4 FLOAT							
				1.4 SINK							
				1.5 FLOAT							
				1.5 SINK							
				1.6 FLOAT							
				1.6 SINK							
				RAW							39.92
				1.4 FLOAT							
				1.4 SINK							
				1.5 FLOAT							
				1.5 SINK							
				1.6 FLOAT							
				1.6 SINK							

CROWS NEST RESOURCES ANALYSIS REPORT

AREA: LINE CREEK

HOLE NO. LC-106

DATE: AUGUST 22, 1978

ANALYST: Ken McCullough

LAB NO.	SAMPLE NO.	SEAM	INTERVAL (METRES)	FRACTION	% AIR DRY MOIST	% RESID. MOIST.	% ASH d.b.	% V.M.	% F.C.	F.S.I.	% YIELD
78-34	34	?	33.8 - 36.4	RAW		3.18	36.01			0	X
				1.4 FLOAT		1.50	5.19			1½	43.36
				1.4 SINK							56.64
				1.5 FLOAT		1.50	6.78			1½	52.51
				1.5 SINK							47.49
				1.6 FLOAT							
				1.6 SINK							
78-55	55	3 UPPER	78.08 - 82.91	RAW		1.50	35.83			7	X
				1.4 FLOAT		1.50	4.30			7½	46.44
				1.4 SINK							53.56
				1.5 FLOAT		1.50	6.77			8	51.37
				1.5 SINK							48.63
				1.6 FLOAT							
				1.6 SINK							
78-56	56	3 LOWER	90.28 - 93.14	RAW		1.50	32.11			7	X
				1.4 FLOAT		1.50	5.19			8½	48.74
				1.4 SINK							51.26
				1.5 FLOAT		1.50	6.95			8	51.28
				1.5 SINK							48.72
				1.6 FLOAT							
				1.6 SINK							

CROWS NEST RESOURCES ANALYSIS REPORT

AREA: LINE CREEK

HOLE NO. LC-106

DATE: August 22, 1978

ANALYST: Ken McCullough

LAB NO.	SAMPLE NO.	SEAM	INTERVAL (METRES)	FRACTION	% AIR DRY MOIST	% RESID. MOIST.	% ASH d.b.	% V.M.	% F.C.	F.S.I.	% YIELD
78-45	45	4 UPPER	133.20 - 134.57	RAW		1.50	7.61			8	81.76
				1.4 FLOAT		1.50	3.96			8	81.76
				1.4 SINK							18.24
				1.5 FLOAT		1.50	5.32			8	91.27
				1.5 SINK							8.73
				1.6 FLOAT							
				1.6 SINK							
78-58	58	6 UPPER	192.02 - 193.63 1.61 avge	RAW		1.50	7.95			7½	77.34
				1.4 FLOAT		1.50	4.20			6	77.34
				1.4 SINK							22.66
				1.5 FLOAT		1.50	5.33			7½	91.73
				1.5 SINK							8.27
				1.6 FLOAT							
				1.6 SINK							
78-59	59	6 LOWER	196.92 - 199.18 2.26	RAW		1.50	15.39			6½	72.15
				1.4 FLOAT		1.50	5.33			7½	72.15
				1.4 SINK							27.85
				1.5 FLOAT		1.50	5.86			7½	79.69
				1.5 SINK							20.31
				1.6 FLOAT							
				1.6 SINK							

CROWS NEST RESOURCES ANALYSIS REPORT

AREA: LINE CREEK

HOLE NO. LC-106

DATE: AUGUST 22, 1978

ANALYST: Ken McCullough

LAB NO.	SAMPLE NO.	SEAM	INTERVAL (METRES)	FRACTION	% AIR DRY MOIST	% RESID. MOIST.	% ASH d.b.	% V.M.	% F.C.	F.S.I.	% YIELD
78-72	72	8U	315.90- 319.43 3.53	RAW		1.50	14.79			3	X
				1.4 FLOAT		1.50	6.01			3½	66.45
				1.4 SINK							33.55
				1.5 FLOAT		1.50	7.87			3½	81.83
				1.5 SINK							18.17
				1.6 FLOAT							
				1.6 SINK							
				avg					8.29		
78-73	73	8S	319.43- 319.78 35	RAW		1.50	74.21			0	X
				1.4 FLOAT							
				1.4 SINK							
				1.5 FLOAT							
				1.5 SINK							
				1.6 FLOAT							
				1.6 SINK							
				comp.					8.24		
78-74	74	8L	319.78- 320.48 10	RAW		1.50	40.20			1	X
				1.4 FLOAT		1.50	7.20			7	19.78
				1.4 SINK							80.22
				1.5 FLOAT		1.50	11.85			3½	38.93
				1.5 SINK							61.07
				1.6 FLOAT							
				1.6 SINK							

CROWS NEST RESOURCES ANALYSIS REPORT

AREA: LINE CREEK

HOLE NO LC-106

DATE: AUGUST 22, 1978

ANALYST: Ken McCullough

LAB NO.	SAMPLE NO.	SEAM	INTERVAL (METRES)	FRACTION	% AIR DRY MOIST	% RESID. MOIST.	% ASH d.b.	% V.M.	% F.C.	F.S.I.	% YIELD
78-75	75	8L	320.48- 326.53 6.05	RAW		1.50	17.19			3	XXXX
				1.4 FLOAT		1.50	5.54			3½	60.53
				1.4 SINK							39.47
				1.5 FLOAT		1.50	7.59			4	76.72
				1.5 SINK							23.28
				1.6 FLOAT							
				1.6 SINK							
			avg			8.15					
78-76	76	8L	326.53- 327.05 .52	RAW		1.50	63.78			0	XXXX
				1.4 FLOAT		1.50	7.03			9	11.05
				1.4 SINK							88.95
				1.5 FLOAT		1.50	9.73			7½	16.29
				1.5 SINK							83.71
				1.6 FLOAT							
				1.6 SINK							
78-89	89	9	360.01- 361.56 1.55	RAW		1.50	49.78			2½	XXXX
				1.4 FLOAT		1.50	5.84			8	22.94
				1.4 SINK							77.06
				1.5 FLOAT		1.50	8.86			8	30.14
				1.5 SINK							69.86
				1.6 FLOAT							
				1.6 SINK							

CROWS NEST RESOURCES ANALYSIS REPORT

AREA: LINE CREEK

HOLE NO. LC-106

DATE: AUGUST 22, 1978

ANALYST: Ken McCullough

LAB NO.	SAMPLE NO.	SEAM	INTERVAL (METRES)	FRACTION	% AIR DRY MOIST	% RESID. MOIST.	% ASH d.b.	% V.M.	% F.C.	F.S.I.	% YIELD
78-97	97	103	448.81 460.81	RAW		1.50	16.80			7	
				1.4 FLOAT		1.50	6.15			7½	61.05
				1.4 SINK							38.95
				1.5 FLOAT		1.50	8.65			8	74.66
				1.5 SINK							25.34
				1.6 FLOAT							
				1.6 SINK							
78-98	98	104	463.77- 466.88	RAW		1.50	19.35			4½	
				1.4 FLOAT		1.50	7.82			8½	40.52
				1.4 SINK							59.48
				1.5 FLOAT		1.50	11.89			7	69.63
				1.5 SINK							30.37
				1.6 FLOAT							
				1.6 SINK							
				RAW							
				1.4 FLOAT							
				1.4 SINK							
				1.5 FLOAT							
				1.5 SINK							
				1.6 FLOAT							
1.6 SINK											

CROWS NEST RESOURCES ANALYSIS REPORT

AREA: LINE CREEK

HOLE NO. LC-103¹⁰⁶

DATE: AUGUST 14, 1978

ANALYST: Ken McCullough

LAB NO.	SAMPLE NO.	SEAM	INTERVAL (METRES)	FRACTION	% AIR DRY MOIST	% RESID. MOIST.	% ASH d.b.	% V.M.	% F.C.	F.S.I.	% YIELD
78-92	92	-9	367.94 - 369.42 1.48	RAW		1.50	32.13			3½	X
				1.4 FLOAT		1.50	5.23			7½	41.72
				1.4 SINK							58.28
				1.5 FLOAT		1.50	7.20			7½	46.98
				1.5 SINK							53.02
				1.6 FLOAT							
				1.6 SINK							
				RAW							X
				1.4 FLOAT							
				1.4 SINK							
				1.5 FLOAT							
				1.5 SINK							
				1.6 FLOAT							
				1.6 SINK							
				RAW							X
				1.4 FLOAT							
				1.4 SINK							
				1.5 FLOAT							
				1.5 SINK							
				1.6 FLOAT							
				1.6 SINK							

CROWS NEST RESOURCES ANALYSIS REPORT

AREA: LINE CREEK

HOLE NO. LC-107

DATE: August

ANALYST: Ken McCullough

LAB NO.	SAMPLE NO.	SEAM	INTERVAL (METRES)	FRACTION	% AIR DRY MOIST	% RESID. MOIST.	% ASH d.b.	% V.M.	% F.C.	F.S.I.	% YIELD
78-99	99	8 (Upper)	135.46- 136.68 <i>1.22</i>	RAW			86.80			2	X
				1.4 FLOAT			6.85		7	41.60	
				1.4 SINK						58.40	
				1.5 FLOAT			8.86		7	51.26	
				1.5 SINK						48.74	
				1.6 FLOAT							
				1.6 SINK							
							<i>avg</i>			8.71	
8-100	100	8 (Upper)	136.68- 140.96 <i>4.28</i>	RAW			19.97			4	X
				1.4 FLOAT			6.12		6½	59.64	
				1.4 SINK						40.36	
				1.5 FLOAT			8.67		5½	75.12	
				1.5 SINK						24.88	
				1.6 FLOAT							
				1.6 SINK							
							<i>comp.</i>			8.41	
8-101	101	8 (Split)	140.96- 141.42	RAW			78.61			½	X
				1.4 FLOAT							
				1.4 SINK							
				1.5 FLOAT							
				1.5 SINK							
				1.6 FLOAT							
				1.6 SINK							

CROWS NEST RESOURCES ANALYSIS REPORT

AREA: LINE CREEK

HOLE NO. LC-107

DATE: AUGUST 28, 1978

ANALYST: Ken McCullough

LAB NO.	SAMPLE NO.	SEAM	INTERVAL (METRES)	FRACTION	% AIR DRY MOIST	% RESID. MOIST.	% ASH d.b.	% V.M.	% F.C.	F.S.I.	% YIELD	
78-102	102	8 (Lower)	141.42 143.15 <i>1.73</i>	RAW			18.29				2	
				1.4 FLOAT			5.71			3	64.26	
				1.4 SINK							35.74	
				1.5 FLOAT			7.45			2½	75.08	
				1.5 SINK							24.92	
				1.6 FLOAT								
				1.6 SINK								
							<i>avg.</i>			8.19		
8-103	103	8 (Lower)	143.15- 148.83 <i>5.68</i>	RAW			15.55				3½	
				1.4 FLOAT			6.58			3½	63.91	
				1.4 SINK							36.09	
				1.5 FLOAT			8.42			3½	81.07	
				1.5 SINK							18.93	
				1.6 FLOAT								
				1.6 SINK								
8-104	104	9	191.16- 192.81 <i>1.65</i>	RAW			14.31			7	 	
				1.4 FLOAT			4.90			8	64.44	
				1.4 SINK							35.56	
				1.5 FLOAT			6.79			7½	82.74	
				1.5 SINK							17.26	
				1.6 FLOAT								
				1.6 SINK								

CROWS NEST RESOURCES ANALYSIS REPORT

AREA: LINE CREEK

HOLE NO. LC-107

DATE: AUGUST 28, 1978

ANALYST: Ken McCullough

LAB NO.	SAMPLE NO.	SEAM	INTERVAL (METRES)	FRACTION	% AIR DRY MOIST	% RESID. MOIST.	% ASH d.b.	% V.M.	% F.C.	F.S.I.	% YIELD	
8-105	105	9	192.81 193.33	RAW			73.37			0	X	
				1.4 FLOAT								
			1.4 SINK									
			1.5 FLOAT									
			1.5 SINK									
			1.6 FLOAT									
			1.6 SINK									
						<i>avg</i>				7.94		
8-106	106	9	193.33- 194.26	RAW			18.34			7½	X	
				1.4 FLOAT			8.23			8	64.02	
			1.4 SINK							35.98		
			1.5 FLOAT			10.22			7½	74.77		
			1.5 SINK							25.23		
			1.6 FLOAT									
			1.6 SINK									
			<i>93</i>									
8-107	107	9	194.26- 194.8	RAW			78.12			0	X	
				1.4 FLOAT								
			1.4 SINK									
			1.5 FLOAT									
			1.5 SINK									
			1.6 FLOAT									
			1.6 SINK									

CROWS NEST RESOURCES ANALYSIS REPORT

AREA: LINE CREEK

HOLE NO. LC-107

DATE: AUGUST 28, 1978

ANALYST: Ken McCullough

LAB NO.	SAMPLE NO.	SEAM	INTERVAL (METRES)	FRACTION	% AIR DRY MOIST	% RESID. MOIST.	% ASH d.b.	% V.M.	% F.C.	F.S.I.	% YIELD
78-108	108	9	194.8- 196.68 <i>1.88</i>	RAW			14.30			4½	
				1.4 FLOAT			5.47			6	66.35
				1.4 SINK							33.65
				1.5 FLOAT			7.81			5	83.43
				1.5 SINK							16.57
				1.6 FLOAT							
				1.6 SINK							
8-109	109	10B	211.75- 212.51 <i>.76</i>	RAW			6.91			7	
				1.4 FLOAT			4.76			7	89.58
				1.4 SINK							10.42
				1.5 FLOAT			4.86			7	88.05
				1.5 SINK							11.95
				1.6 FLOAT							
				1.6 SINK							
			<i>avge</i>			9.45					
8-110	110	10B (Split)	212.51- 213.62	RAW			69.09			0	
				1.4 FLOAT							
				1.4 SINK							
				1.5 FLOAT							
				1.5 SINK							
				1.6 FLOAT							
				1.6 SINK							

CROWS NEST RESOURCES ANALYSIS REPORT

AREA: LINE CREEK

HOLE NO. LC-107

DATE: AUGUST 28, 1978

ANALYST: Ken McCullough

LAB NO.	SAMPLE NO.	SEAM	INTERVAL (METRES)	FRACTION	% AIR DRY MOIST	% RESID. MOIST.	% ASH d.b.	% V.M.	% F.C.	F.S.I.	% YIELD
8-111	111	10B	213.62 217.32 3.7	RAW			14.62			7½	XXXX
				1.4 FLOAT			7.40			8	59.15
				1.4 SINK							40.85
				1.5 FLOAT			10.39			7½	84.90
				1.5 SINK							15.10
				1.6 FLOAT							
				1.6 SINK							
8-112	112	10A	223.78- 227.38	RAW			18.27			5½	XXXX
				1.4 FLOAT			8.30			8	44.30
				1.4 SINK							55.70
				1.5 FLOAT			12.24			6½	73.82
				1.5 SINK							26.18
				1.6 FLOAT							
				1.6 SINK							
				RAW							XXXX
				1.4 FLOAT							
				1.4 SINK							
				1.5 FLOAT							
				1.5 SINK							
				1.6 FLOAT							
1.6 SINK											

CROWS NEST RESOURCES ANALYSIS REPORT

AREA: LINE CREEK

HOLE NO. LC-108

DATE: AUGUST 23, 1978

ANALYST: Ken McCullough

LAB NO.	SAMPLE NO.	SEAM	INTERVAL (METRES)	FRACTION	% AIR DRY MOIST	% RESID. MOIST.	% ASH d.b.	% V.M.	% F.C.	F.S.I.	% YIELD	
78-119	119	9	106.21-106.68	RAW			68.05			0	 	
				1.4 FLOAT								
				1.4 SINK								
				1.5 FLOAT								
				1.5 SINK								
				1.6 FLOAT								
				1.6 SINK								
				avg.						7.58		
78-120	120	9	106.68-108.2 1.52.	RAW			16.82			7	 	
				1.4 FLOAT			6.25			8	64.42	
				1.4 SINK							35.58	
				1.5 FLOAT			8.43			7½	78.98	
				1.5 SINK							21.02	
				1.6 FLOAT								
				1.6 SINK								
78-121	121	10B	132.66-137.37	RAW			18.28			7½	 	
				1.4 FLOAT			7.14			8	62.89	
				1.4 SINK							37.11	
				1.5 FLOAT			9.04			8	60.59	
				1.5 SINK							39.41	
				1.6 FLOAT								
				1.6 SINK								

CROWS NEST RESOURCES ANALYSIS REPORT

AREA: LINE CREEK

HOLE NO. LC-108

DATE: AUGUST 23, 1978

ANALYST: Ken McCullough

LAB NO.	SAMPLE NO.	SEAM	INTERVAL (METRES)	FRACTION	% AIR DRY MOIST	% RESID. MOIST.	% ASH d.b.	% V.M.	% F.C.	F.S.I.	% YIELD	
78-122	122	10B	137.37-137.54	RAW			65.23			1	XXXX	
				1.4 FLOAT								
				1.4 SINK								
				1.5 FLOAT								
				1.5 SINK								
				1.6 FLOAT								
				1.6 SINK								
78-123	123	10A	142.04-145.18	RAW			17.11			5	XXXX	
				1.4 FLOAT			8.59			8	44.31	
				1.4 SINK							55.69	
				1.5 FLOAT			12.42			7	74.13	
				1.5 SINK							25.87	
				1.6 FLOAT			14.66			6	86.75	
				1.6 SINK							13.25	
				RAW							XXXX	
				1.4 FLOAT								
				1.4 SINK								
				1.5 FLOAT								
				1.5 SINK								
				1.6 FLOAT								
				1.6 SINK								

CROWS NEST RESOURCES ANALYSIS REPORT

AREA: LINE CREEK

HOLE NO. LC-109

DATE: SEPT. 7, 1978

ANALYST: Ken McCullough

LAB NO.	SAMPLE NO.	SEAM	INTERVAL (METRES)	FRACTION	% AIR DRY MOIST	% RESID. MOIST.	% ASH d.b.	% V.M.	% F.C.	F.S.I.	% YIELD
78-124	124	8 U	67.36- 68.53	RAW		1.50	24.81			3	X
				1.4 FLOAT		1.50	6.50			7	43.39
				1.4 SINK							56.61
				1.5 FLOAT		1.50	10.21			5½	64.89
				1.5 SINK							35.11
				1.6 FLOAT							
				1.6 SINK							
			<i>avg</i>			9.05					
78-125	125	8 U	68.53- 72.33	RAW		1.50	17.57			4	X
				1.4 FLOAT		1.50	6.44			7	55.05
				1.4 SINK							44.95
				1.5 FLOAT		1.50	8.69			5	73.72
				1.5 SINK							26.28
				1.6 FLOAT							
				1.6 SINK							
			<i>comp.</i>			7.98					
78-128	128	8 (Split)	72.33- 73.25	RAW		1.50	73.25			0	X
				1.4 FLOAT							
				1.4 SINK							
				1.5 FLOAT							
				1.5 SINK							
				1.6 FLOAT							
				1.6 SINK							

CROWS NEST RESOURCES ANALYSIS REPORT

AREA: LINE CREEK

HOLE NO. Lc-109

DATE: SEPT.7, 1978

ANALYST: Ken McCullough

LAB NO.	SAMPLE NO.	SEAM	INTERVAL (METRES)	FRACTION	% AIR DRY MOIST	% RESID. MOIST.	% ASH d.b.	% V.M.	% F.C.	F.S.I.	% YIELD
78-130	130	9	131.83-132.09	RAW		1.50	71.92			0	
				1.4 FLOAT							
				1.4 SINK							
				1.5 FLOAT							
				1.5 SINK							
				1.6 FLOAT							
				1.6 SINK							
78-131	131	9	132.09-133.92 1.83	RAW		1.50	14.43			4½	
				1.4 FLOAT		1.50	6.08			6	63.67
				1.4 SINK							33.33
				1.5 FLOAT		1.50	8.29			5	80.30
				1.5 SINK							19.70
				1.6 FLOAT							
				1.6 SINK							
			avg.			6.98					
78-132	132	9	133.92-134.57 .65	RAW		1.50	64.67			2½	
				1.4 FLOAT		1.50	4.09			9	17.30
				1.4 SINK							82.70
				1.5 FLOAT		1.50	4.52			9	17.16
				1.5 SINK							82.84
				1.6 FLOAT							

CROWS NEST RESOURC ANALYSIS REPORT

AREA: LINE CREEK

HOLE NO. LC-109

DATE: SEPT. 8, 1978

ANALYST: Ken McCullough

LAB NO.	SAMPLE NO.	SEAM	INTERVAL (METRES)	FRACTION	% AIR DRY MOIST	% RESID. MOIST.	% ASH d.b.	% V.M.	% F.C.	F.S.I.	% YIELD
78-136	136	10A	163.94-167.03	RAW		1.50	20.94			4½	XXXX
				1.4 FLOAT		1.50	9.06			8	33.08
				1.4 SINK							66.92
				1.5 FLOAT		1.50	13.65			6	65.77
				1.5 SINK							34.23
				1.6 FLOAT		1.50	15.42			4½	76.71
				1.6 SINK							23.29
				RAW						XXXX	
				1.4 FLOAT							
				1.4 SINK							
				1.5 FLOAT							
				1.5 SINK							
				1.6 FLOAT							
				1.6 SINK							
				RAW						XXXX	
				1.4 FLOAT							
				1.4 SINK							
				1.5 FLOAT							
				1.5 SINK							
				1.6 FLOAT							
				1.6 SINK							

CROWS NEST RESOURCES ANALYSIS REPORT

AREA: LINE CREEK

HOLE NO. LC 110

DATE: SEPT 15, 1978

ANALYST: KEN McCULLOUGH

LAB NO.	SAMPLE NO.	SEAM	INTERVAL (METRES)	FRACTION	% AIR DRY MOIST	% RESID. MOIST.	% ASH d.b.	% V.M.	% F.C.	F.S.I.	% YIELD
78-148	137	4 UPPER	35.05 - 37.97 2.92	RAW		1.50	13.87			1½	X
				1.4 FLOAT		1.50	3.74			1½	69.03
				1.4 SINK							30.97
				1.5 FLOAT		1.50	5.17			1½	80.00
				1.5 SINK							20.00
				1.6 FLOAT							
				1.6 SINK							
78-149	138	SPLIT	40.38 - 41.52 1.14 comp.	RAW		1.50	25.98			1½	X
				1.4 FLOAT		1.50	10.69			1½	42.96
				1.4 SINK							57.04
				1.5 FLOAT		1.50	13.32			1½	61.94
				1.5 SINK							38.06
				1.6 FLOAT							
				1.6 SINK							
78-150	139	4 LOWER	41.52 - 43.06 1.54	RAW		1.50	72.75			0	X
				1.4 FLOAT		1.50	6.81			1	12.28
				1.4 SINK							87.72
				1.5 FLOAT		1.50	10.37			1	15.16
				1.5 SINK							84.84
				1.6 FLOAT							
				1.6 SINK							

CROWS NEST RESOURCES ANALYSIS REPORT

AREA: LINE CREEK

HOLE NO. LC-110

DATE: SEPT 15, 1978

ANALYST: KEN McCULLOUGH

LAB NO.	SAMPLE NO.	SEAM	INTERVAL (METRES)	FRACTION	% AIR DRY MOIST	% RESID. MOIST.	% ASH d.b.	% V.M.	% F.C.	F.S.I.	% YIELD
8-151	140	4 LOWER	43.06 - 43.55	RAW		1.50	27.17			1½	XXXX
				1.4 FLOAT		1.50	6.26			2	83.67
				1.4 SINK							66.33
				1.5 FLOAT		1.50	10.30			1½	46.97
				1.5 SINK							53.03
				1.6 FLOAT							
				1.6 SINK							
78-162	151	5	56.2 - 57.96	RAW		1.50	23.35			2	XXXX
				1.4 FLOAT		1.50	5.60			3	48.59
				1.4 SINK							51.41
				1.5 FLOAT		1.50	7.81			3	63.13
				1.5 SINK							36.87
				1.6 FLOAT							
				1.6 SINK							
78-152	141	6	81.64 - 84.11	RAW		1.50	17.04			4½	XXXX
				1.4 FLOAT		1.50	5.46			5	60.43
				1.4 SINK							39.57
				1.5 FLOAT		1.50	6.32			4½	74.55
				1.5 SINK							25.45
				1.6 FLOAT							
				1.6 SINK							

CROWS NEST RESOURCE ANALYSIS REPORT

AREA: LINE CREEK

HOLE NO. LC-110

DATE: SEPT 15, 1978

ANALYST: KEN McCULLOUGH

LAB NO.	SAMPLE NO.	SEAM	INTERVAL (METRES)	FRACTION	% AIR DRY MOIST	% RESID. MOIST.	% ASH d.b.	% V.M.	% F.C.	F.S.I.	% YIELD
78-170	159	8U	226.07- 227.12 <i>1.05</i>	RAW		1.50	19.34			3	XXXX
				1.4 FLOAT		1.50	7.64			5½	52.66
				1.4 SINK							47.34
				1.5 FLOAT		1.50	11.02			4½	70.02
				1.5 SINK							29.98
				1.6 FLOAT							
				1.6 SINK							
			<i>avg</i>			<i>8.59</i>					
78-171	160	8U	227.12- 229.89 <i>2.77</i>	RAW		1.50	12.63			5	XXXX
				1.4 FLOAT		1.50	6.12			5½	59.82
				1.4 SINK							40.18
				1.5 FLOAT		1.50	7.67			5	75.70
				1.5 SINK							24.30
				1.6 FLOAT							
				1.6 SINK							
			<i>comp</i>			<i>8.77</i>					
78-172	161	8L	230.06- 230.70 <i>64</i>	RAW		1.50	29.42			2	XXXX
				1.4 FLOAT		1.50	5.32			3	56.33
				1.4 SINK							43.67
				1.5 FLOAT		1.50	6.09			3	61.48
				1.5 SINK							38.52
				1.6 FLOAT							
				1.6 SINK							
			<i>avg</i>			<i>8.87</i>					

CROWS NEST RESOURCES ANALYSIS REPORT

AREA: LINE CREEK

HOLE NO. LC-110

DATE: SEPT 15, 1978

ANALYST: KEN McCULLOUGH

LAB NO.	SAMPLE NO.	SEAM	INTERVAL (METRES)	FRACTION	% AIR DRY MOIST	% RESID. MOIST.	% ASH d.b.	% V.M.	% F.C.	F.S.I.	% YIELD	
78-223	181	9 LOWER	284.02- 284.99 .97	RAW		1.50	14.60			5	71.27	
				1.4 FLOAT		1.50	4.54			6½	71.27	
				1.4 SINK						28.73		
				1.5 FLOAT		1.50	6.54			5½	83.01	
				1.5 SINK						16.99		
				1.6 FLOAT								
				1.6 SINK								
				RAW						71.27		
				1.4 FLOAT								
				1.4 SINK								
				1.5 FLOAT								
				1.5 SINK								
				1.6 FLOAT								
				1.6 SINK								
				RAW							71.27	
				1.4 FLOAT								
				1.4 SINK								
				1.5 FLOAT								
				1.5 SINK								
				1.6 FLOAT								
				1.6 SINK								

CROWS NEST RESOURCES ANALYSIS REPORT

AREA: Line Creek

HOLE NO. LC-111

DATE: Sept. 21/78

ANALYST: Ken McCullough

LAB NO.	SAMPLE NO.	SEAM	INTERVAL (METRES)	FRACTION	% AIR DRY MOIST	% RESID. MOIST.	% ASH d.b.	% V.M.	% F.C.	F.S.I.	% YIELD
78-159	148	SPLIT	103.09 - 103.79	RAW		1.50	79.76			0	
				1.4 FLOAT						0	
				1.4 SINK					100		
				1.5 FLOAT							
				1.5 SINK							
				1.6 FLOAT							
				1.6 SINK							
				comp			8.51				
78-160	149	B LOWER	103.79 - 104.85 1.06	RAW		1.50	15.16			3	
				1.4 FLOAT		1.50	5.74		4	65.31	
				1.4 SINK						34.69	
				1.5 FLOAT		1.50	7.37		3	76.91	
				1.5 SINK						23.09	
				1.6 FLOAT							
				1.6 SINK							
				avg			8.36				
78-161	150	LOWER B	104.85 - 111.06 6.21	RAW		1.50	12.27			3½	
				1.4 FLOAT		1.50	6.18		5½	59.29	
				1.4 SINK						40.71	
				1.5 FLOAT		1.50	8.53		4	80.66	
				1.5 SINK						19.34	
				1.6 FLOAT							

CROWS NEST RESOURCES ANALYSIS REPORT

AREA: Line Creek

HOLE NO. LC - 111

DATE: Sept. 21, 1978

ANALYST: Ken McCullough

LAB NO.	SAMPLE NO.	SEAM	INTERVAL (METRES)	FRACTION	% AIR DRY MOIST	% RESID. MOIST.	% ASH d.b.	% V.M.	% F.C.	F.S.I.	% YIELD
8-163	152	9	158.22 - 163.92 5.7	RAW		1.50	18.49			5	XXXX
				1.4 FLOAT		1.50	5.67			7	61.24
				1.4 SINK							38.76
				1.5 FLOAT		1.50	8.22			5½	77.75
				1.5 SINK							22.25
				1.6 FLOAT							
				1.6 SINK							
				avg	a		8.23				
8-164	153	9 (Floor)	163.92 - 164.43 .51	RAW		1.50	55.21			4	XXXX
				1.4 FLOAT		1.50	5.98			9	20.42
				1.4 SINK							79.58
				1.5 FLOAT		1.50	8.30			8½	27.36
				1.5 SINK							72.64
				1.6 FLOAT							
				1.6 SINK							
8-165	154	10 B	178.42 - 183.27 4.85	RAW		1.50	24.80			5½	XXXX
				1.4 FLOAT		1.50	6.39			8	43.30
				1.4 SINK							56.70
				1.5 FLOAT		1.50	9.40			5½	63.39
				1.5 SINK							36.61
				1.6 FLOAT							
				1.6 SINK							

CROWS NEST RESOURCES ANALYSIS REPORT

AREA: Line Creek

HOLE NO. LC-111

DATE: Sept. 21/78

ANALYST: Ken McCullough

LAB NO.	SAMPLE NO.	SEAM	INTERVAL (METRES)	FRACTION	% AIR DRY MOIST	% RESID. MOIST.	% ASH d.b.	% V.M.	% F.C.	F.S.I.	% YIELD	
78-166	155	10B	183.27 - 183.47	RAW		1.50	40.10			5½	XXXX	
				1.4 FLOAT		1.50	8.99			8½	21.36	
			.2	1.4 SINK								78.64
				1.5 FLOAT		1.50	15.66			8	39.27	
				1.5 SINK							60.73	
				1.6 FLOAT								
				1.6 SINK								
				avg			9.65					
78.167	156	10A	189.87 - 191.17	RAW		1.50	20.08			5	XXXX	
				1.4 FLOAT		1.50	7.96			5½	37.32	
			1.4 SINK							62.68		
			1.5 FLOAT		1.50	12.83			5½	65.75		
			1.5 SINK							34.25		
			1.6 FLOAT									
			1.6 SINK									
				RAW							XXXX	
				1.4 FLOAT								
				1.4 SINK								
				1.5 FLOAT								
				1.5 SINK								
				1.6 FLOAT								
				1.6 SINK								

REV 17342

CROWS NEST RESOURCES ANALYSIS REPORT

AREA: LINE CREEK

HOLE NO. LC-112

DATE: Sept. 21/78

ANALYST: Ken McCullough

LAB NO.	SAMPLE NO.	SEAM	INTERVAL (METRES)	FRACTION	% AIR DRY MOIST	% RESID. MOIST.	% ASH d.b.	% V.M.	% F.C.	F.S.I.	% YIELD
78-168	157	6	41.94 - 42.24	RAW		1.50	57.69			1	X
				1.4 FLOAT						0	
				1.4 SINK					100		
				1.5 FLOAT							
				1.5 SINK							
				1.6 FLOAT							
				1.6 SINK							
78-169	158	6	42.36 - 48.77	RAW		1.50	13.19			5½	X
				1.4 FLOAT		1.50	5.31		7	66.56	
				1.4 SINK					33.44		
				1.5 FLOAT		1.50	6.64		6½	78.08	
				1.5 SINK					21.92		
				1.6 FLOAT							
				1.6 SINK							
78-188	163	7u	62.0 - 63.71 1.71	RAW		1.50	24.37			5½	X
				1.4 FLOAT		1.50	5.11		7	45.39	
				1.4 SINK					75.09		
				1.5 FLOAT		1.50	7.99		5½	59.72	
				1.5 SINK					40.28		
				1.6 FLOAT							

CROWS NEST RESOURCES ANALYSIS REPORT

AREA: Line Creek

HOLE NO. LC-112

DATE: Sept. 21/78

ANALYST: Ken McCullough

LAB NO.	SAMPLE NO.	SEAM	INTERVAL (METRES)	FRACTION	% AIR DRY MOIST	% RESID. MOIST.	% ASH d.b.	% V.M.	% F.C.	F.S.I.	% YIELD
78-189	164	7L	65.51-68.51 3.0	RAW		1.50	29.64			4½	35.72
				1.4 FLOAT		1.50	6.00			6	35.72
				1.4 SINK							64.28
				1.5 FLOAT		1.50	9.04			5½	50.28
				1.5 SINK							49.72
				1.6 FLOAT							
				1.6 SINK							
				avg.			9.03			5.36	
78-190	165	7u?	70.94-71.45 .51	RAW		1.50	43.93			3	30.58
				1.4 FLOAT		1.50	5.89			6	30.58
				1.4 SINK							69.42
				1.5 FLOAT		1.50	9.38			6	41.06
				1.5 SINK							58.94
				1.6 FLOAT							
				1.6 SINK							
78-191	166	7L	72.39-76.90 4.51	RAW		1.50	14.65			3	63.00
				1.4 FLOAT		1.50	5.87			3½	63.00
				1.4 SINK							37.00
				1.5 FLOAT		1.50	8.27			3½	77.01
				1.5 SINK							22.99
				1.6 FLOAT							
				1.6 SINK							

CROWS NEST RESOURCES ANALYSIS REPORT

AREA: Line Creek

HOLE NO. LC-112

DATE: Sept. 21/78

ANALYST: Ken McCullough

LAB NO.	SAMPLE NO.	SEAM	INTERVAL (METRES)	FRACTION	% AIR DRY MOIST	% RESID. MOIST.	% ASH d.b.	% V.M.	% F.C.	F.S.I.	% YIELD
78-192	167	7L	78.03- 78.61 .58	RAW		1.50	25.48			5½	XXXX
				1.4 FLOAT		1.50	7.93			8½	29.05
				1.4 SINK							70.95
				1.5 FLOAT		1.50	12.70			7½	58.34
				1.5 SINK							41.66
				1.6 FLOAT							
				1.6 SINK							
78-193	168	7L	85.53- 86.84 1.31	RAW		1.50	17.25			7	XXXX
				1.4 FLOAT		1.50	6.90			7½	56.39
				1.4 SINK							43.61
				1.5 FLOAT		1.50	8.77			7½	71.90
				1.5 SINK							28.10
				1.6 FLOAT							
				1.6 SINK							
78-194	169	7L	87.11- 88.18 1.07	RAW		1.50	25.98			5½	XXXX
				1.4 FLOAT		1.50	6.64			8½	33.18
				1.4 SINK							66.82
				1.5 FLOAT		1.50	11.44			6½	49.56
				1.5 SINK							50.44
				1.6 FLOAT							
				1.6 SINK							

CROWS NEST RESOURCES ANALYSIS REPORT

AREA: Line Creek

HOLE NO. LC-112

DATE: Sept. 21/78

ANALYST: Ken McCullough

LAB NO.	SAMPLE NO.	SEAM	INTERVAL (METRES)	FRACTION	% AIR DRY MOIST	% RESID. MOIST.	% ASH d.b.	% V.M.	% F.C.	F.S.I.	% YIELD
78-195	170	7L	88.78-90.08 1.30.	RAW		1.50	20.42			5½	XXXX
				1.4 FLOAT		1.50	6.50			7½	49.04
				1.4 SINK							50.96
				1.5 FLOAT		1.50	9.55			7	64.27
				1.5 SINK							35.73
				1.6 FLOAT							
				1.6 SINK							
				RAW							XXXX
				1.4 FLOAT							
				1.4 SINK							
				1.5 FLOAT							
				1.5 SINK							
				1.6 FLOAT							
				1.6 SINK							
				RAW							XXXX
				1.4 FLOAT							
				1.4 SINK							
				1.5 FLOAT							
				1.5 SINK							
				1.6 FLOAT							
				1.6 SINK							

CROWS NEST RESOURCES ANALYSIS REPORT

AREA: LINE CREEK

HOLE NO. LC-113

DATE: Sept 25/78

ANALYST: Ken McCullough

LAB NO.	SAMPLE NO.	SEAM	INTERVAL (METRES)	FRACTION	% AIR DRY MOIST	% RESID. MOIST.	% ASH d.b.	% V.M.	% F.C.	F.S.I.	% YIELD	
78-201	176	8 (Upper)	42.68 - 43.65 97	RAW		1.50	28.54				1	X
				1.4 FLOAT		1.50	6.07				1	29.47
				1.4 SINK								70.53
				1.5 FLOAT		1.50	10.01				1	54.10
				1.5 SINK								45.90
				1.6 FLOAT								
				1.6 SINK								
							<i>avg.</i>			8.36		
78-202	177	8 (Upper)	43.65 - 49.48 5.83	RAW		1.50	14.99				1	X
				1.4 FLOAT		1.50	5.95				1½	59.88
				1.4 SINK								40.12
				1.5 FLOAT		1.50	8.09				1½	75.89
				1.5 SINK								24.11
				1.6 FLOAT								
				1.6 SINK								
							<i>comp.</i>			7.51		
78-203	178	8 (Split)	49.48 - 50.46	RAW		We didn't do any tests					X	
				1.4 FLOAT		sample was rock						
				1.4 SINK								
				1.5 FLOAT								
				1.5 SINK								
				1.6 FLOAT								
				1.6 SINK								

CROWS NEST RESOURCES ANALYSIS REPORT

AREA: LINE CREEK

HOLE NO: LC-113

DATE: Sept. 25/78

ANALYST: Ken McCullough

LAB NO.	SAMPLE NO.	SEAM	INTERVAL (METRES)	FRACTION	% AIR DRY MOIST	% RESID. MOIST.	% ASH d.b.	% V.M.	% F.C.	F.S.I.	% YIELD
78-204	179	8 (Lower)	50.46 - 51.56 <i>1.10.</i>	RAW		1.50	18.76			1½	X
				1.4 FLOAT		1.50	5.68			2	54.80
				1.4 SINK							45.20
				1.5 FLOAT		1.50	7.16			2	68.92
				1.5 SINK							31.08
				1.6 FLOAT							
				1.6 SINK							
78-205	180	8 (Lower)	51.56 - 59.74 <i>8.18</i>	RAW		1.50	13.88			0	X
				1.4 FLOAT		1.50	4.74			0	49.83
				1.4 SINK							50.17
				1.5 FLOAT		1.50	6.85			0	78.05
				1.5 SINK							21.95
				1.6 FLOAT							
				1.6 SINK							
78-224	182	10A	154.53- 157.95 <i>avg.</i>	RAW		1.50	17.13			3½	X
				1.4 FLOAT		1.50	7.58			7	38.96
				1.4 SINK							61.04
				1.5 FLOAT		1.50	12.22			4	72.97
				1.5 SINK							27.03
				1.6 FLOAT							
				1.6 SINK							

CROWS NEST RESOURCES ANALYSIS REPORT

AREA: Line Creek

HOLE NO. LC-113

DATE: Sept. 25/78

ANALYST: Ken McCullough

LAB NO.	SAMPLE NO.	SEAM	INTERVAL (METRES)	FRACTION	% AIR DRY MOIST	% RESID. MOIST.	% ASH d.b.	% V.M.	% F.C.	F.S.I.	% YIELD
78-231	189	9	112.88-115.51 2.63	RAW		1.50	18.99			1	
				1.4 FLOAT		1.50	4.99			2	58.31
				1.4 SINK							16.69
				1.5 FLOAT		1.50	6.70			2	72.45
				1.5 SINK							27.55
				1.6 FLOAT							
				1.6 SINK							
			avg			8.09					
78-232	190	9	115.51-116.09 .58	RAW		1.50	49.51			0	
				1.4 FLOAT		1.50	6.22			1	20.42
				1.4 SINK							79.58
				1.5 FLOAT		1.50	9.50			1	30.56
				1.5 SINK							69.44
				1.6 FLOAT							
				1.6 SINK							
78.233	191	9	116.09-121.21 5.12	RAW		1.50	14.30			2½	
				1.4 FLOAT		1.50	6.39			2½	67.37
				1.4 SINK							32.63
				1.5 FLOAT		1.50	8.65			2½	83.61
				1.5 SINK							16.39
				1.6 FLOAT							
				1.6 SINK							

CROWS NEST RESOURCES ANALYSIS REPORT

AREA: Line Creek

HOLE NO. LC-114

DATE: Oct. 2/78

ANALYST: Ken McCullough

LAB NO.	SAMPLE NO.	SEAM	INTERVAL (METRES)	FRACTION	% AIR DRY MOIST	% RESID. MOIST.	% ASH d.b.	% V.M.	% F.C.	F.S.I.	% YIELD
78-228	186	7	98.76-100.73	RAW		1.5	24.58			4	X
				1.4 FLOAT		1.5	4.87			5½	46.30
				1.4 SINK							53.70
				1.5 FLOAT		1.5	7.19			5	56.03
				1.5 SINK							43.97
				1.6 FLOAT							
				1.6 SINK							
				avg					8.79		
78-229	187	7 (SPHIT)	100.73-101.21	RAW		1.5	79.53			½	X
				1.4 FLOAT							0
				1.4 SINK							100
				1.5 FLOAT							
				1.5 SINK							
				1.6 FLOAT							
				1.6 SINK							
78-230	188	7	101.21-103.63	RAW		1.5	48.79			1½	X
				1.4 FLOAT		1.5	6.27			7½	17.64
				1.4 SINK							82.36
				1.5 FLOAT		1.5	10.10			5½	27.59
				1.5 SINK							72.41
				1.6 FLOAT							
				1.6 SINK							

CROWS NEST RESOURCES ANALYSIS REPORT

AREA: Line Creek

HOLE NO. LC-114

DATE: Oct. 2/78

ANALYST: Ken McCullough

LAB NO.	SAMPLE NO.	SEAM	INTERVAL (METRES)	FRACTION	% AIR DRY MOIST	% RESID. MOIST.	% ASH d.b.	% V.M.	% F.C.	F.S.I.	% YIELD
78-289	199	8 UPPER	206.57- 207.37 :80	RAW		1.5	22.70			5	X
				1.4 FLOAT		1.5	6.40			7	44.09
				1.4 SINK							55.91
				1.5 FLOAT		1.5	9.87			6	60.36
				1.5 SINK							39.64
				1.6 FLOAT							
				1.6 SINK							
							avg			8.09	
78-290	200	8 UPPER	207.37- 212.15 4.78	RAW		1.5	14.45			5½	X
				1.4 FLOAT		1.5	6.07			7	54.42
				1.4 SINK							45.58
				1.5 FLOAT		1.5	7.79			6½	70.98
				1.5 SINK							29.02
				1.6 FLOAT							
				1.6 SINK							
							comp.			7.53	
78-291	201	SPLIT	212.15- 212.45	RAW		No tests were run				X	
				1.4 FLOAT		sample was rock					
				1.4 SINK							
				1.5 FLOAT							
				1.5 SINK							
				1.6 FLOAT							
				1.6 SINK							

CROWS NEST RESOURCES ANALYSIS REPORT

AREA: Line Creek

HOLE NO. LC-114

DATE: Oct 2/78

ANALYST: Ken McCullough

LAB NO.	SAMPLE NO.	SEAM	INTERVAL (METRES)	FRACTION	% AIR DRY MOIST	% RESID. MOIST.	% ASH d.b.	% V.M.	% F.C.	F.S.I.	% YIELD	
78-295	205	SPLIT	265.20-265.86	RAW		No tests were run						X
				1.4 FLOAT		sample was rock						
				1.4 SINK								
				1.5 FLOAT								
				1.5 SINK								
				1.6 FLOAT								
				1.6 SINK								
78-296	206	9 LOWER	265.86-268.42 2.56.	RAW		1.5	19.71			6	X	
				1.4 FLOAT		1.5	5.13			8	46.05	
				1.4 SINK							53.95	
				1.5 FLOAT		1.5	7.66			7½	57.50	
				1.5 SINK							42.50	
				1.6 FLOAT								
				1.6 SINK								
			avg.			7.99						
78-297	218	10B	285.69-289.33	RAW		1.5	15.63			7	X	
				1.4 FLOAT		1.5	6.77			7½	62.11	
				1.4 SINK							37.89	
				1.5 FLOAT		1.5	8.94			7	81.98	
				1.5 SINK							18.02	
				1.6 FLOAT								
				1.6 SINK								

ELEV 1866.7

CROWS NEST RESOURCES ANALYSIS REPORT

AREA: LINE CREEK

HOLE NO. LC-115

DATE: Oct. 10/78

ANALYST: KAM

LAB NO.	SAMPLE NO.	SEAM	INTERVAL (METRES)	FRACTION	% AIR DRY MOIST	% RESID. MOIST.	% ASH d.b.	% V.M.	% F.C.	F.S.I.	% YIELD
-254	192		156.67 - 159.41	RAW		1.50	16.42			7½	XXXX
				1.4 FLOAT		1.50	3.16			8	67.10
				1.4 SINK							32.90
				1.5 FLOAT		1.50	4.64			8	76.42
				1.5 SINK							23.58
				1.6 FLOAT							
				1.6 SINK							
-255	193		165.49 - 168.77	RAW		1.50	22.80			4½	XXXX
				1.4 FLOAT		1.50	5.46			5½	54.11
				1.4 SINK							45.89
				1.5 FLOAT		1.50	7.96			5	68.47
				1.5 SINK							31.53
				1.6 FLOAT							
				1.6 SINK							
-257	194		173.02 - 175.26	RAW		1.50	21.49			5	XXXX
				1.4 FLOAT		1.50	5.93			7	52.74
				1.4 SINK							47.26
				1.5 FLOAT		1.50	8.48			6	69.47
				1.5 SINK							30.53
				1.6 FLOAT							
				1.6 SINK							

CROWS NEST RESOURCES ANALYSIS REPORT

AREA: Line Creek HOLE NO. LC-115 DATE: Oct. 10/78 ANALYST: KAM

LAB NO.	SAMPLE NO.	SEAM	INTERVAL (METRES)	FRACTION	% AIR DRY MOIST	% RESID. MOIST.	% ASH d.b.	% V.M.	% F.C.	F.S.I.	% YIELD
78-258	195		183.33 - 183.69	RAW		1.50	34.46			1	X
				1.4 FLOAT		1.50	8.91			2	31.50
				1.4 SINK							68.50
				1.5 FLOAT		1.50	12.12			1	53.51
				1.5 SINK							46.49
				1.6 FLOAT							
				1.6 SINK							
8-259	196		183.94 - 184.24	RAW		1.50	53.51			1	X
				1.4 FLOAT		1.50	8.86			6	14.21
				1.4 SINK							85.79
				1.5 FLOAT		1.50	13.62			3	29.99
				1.5 SINK							70.01
				1.6 FLOAT							
				1.6 SINK							
8-260	197		187.28 - 192.62	RAW		1.50	20.29			6	X
				1.4 FLOAT		1.50	4.61			7½	42.37
				1.4 SINK							57.63
				1.5 FLOAT		1.50	7.11			6	54.65
				1.5 SINK							45.35
				1.6 FLOAT							
				1.6 SINK							

CROWS NEST RESOURCES ANALYSIS REPORT

AREA: Line Creek

HOLE NO. LC-115

DATE: Oct. 10/78

ANALYST: KAM

LAB NO.	SAMPLE NO.	SEAM	INTERVAL (METRES)	FRACTION	% AIR DRY MOIST	% RESID. MOIST.	% ASH d.b.	% V.M.	% F.C.	F.S.I.	% YIELD
78-261	198		197.18 - 201.81	RAW		1.50	10.95			7½	
				1.4 FLOAT		1.50	3.67			8	71.35
				1.4 SINK							28.65
				1.5 FLOAT		1.50	5.16			8	78.41
				1.5 SINK							21.59
				1.6 FLOAT							
				1.6 SINK							
78-278	207		233.05 - 235.0	RAW		1.50	12.79			6	
				1.4 FLOAT		1.50	7.42			7½	59.12
				1.4 SINK							40.88
				1.5 FLOAT		1.50	10.60			6	87.11
				1.5 SINK							12.89
				1.6 FLOAT							
				1.6 SINK							
8-279	208		235.0 - 238.05	RAW		1.50	19.97			5½	
				1.4 FLOAT		1.50	8.48			7	47.39
				1.4 SINK							52.61
				1.5 FLOAT		1.50	11.48			6½	77.34
				1.5 SINK							22.66
				1.6 FLOAT							
				1.6 SINK							

CROWS NEST RESOURCES ANALYSIS REPORT

AREA: LINE CREEK

HOLE NO. LC-115

DATE: Oct. 10/78

ANALYST: KAM

LAB NO.	SAMPLE NO.	SEAM	INTERVAL (METRES)	FRACTION	% AIR DRY MOIST	% RESID. MOIST.	% ASH d.b.	% V.M.	% F.C.	F.S.I.	% YIELD
78-283	212	X	248.72 - 251.76	RAW		1.50	11.50			6½	XXXX
				1.4 FLOAT		1.50	5.11			8	69.26
				1.4 SINK							30.74
				1.5 FLOAT		1.50	6.65			7	87.34
				1.5 SINK							12.66
				1.6 FLOAT							
				1.6 SINK							
78-284	213	X	251.76 - 254.81	RAW		1.50	9.83			6½	XXXX
				1.4 FLOAT		1.50	6.90			7½	77.99
				1.4 SINK							22.01
				1.5 FLOAT		1.50	8.91			6½	95.23
				1.5 SINK							4.77
				1.6 FLOAT							
				1.6 SINK							
8-285	214	O	257.86 - 260.91	RAW		1.50	15.99			6½	XXXX
				1.4 FLOAT		1.50	5.46			7½	62.42
				1.4 SINK							37.58
				1.5 FLOAT		1.50	7.80			7	79.98
				1.5 SINK							20.02
				1.6 FLOAT							
				1.6 SINK							

CROWS NEST RESOURCES ANALYSIS REPORT

AREA: Line Creek

HOLE NO. LC-115

DATE: Oct. 10/78

ANALYST: KAM

LAB NO.	SAMPLE NO.	SEAM	INTERVAL (METRES)	FRACTION	% AIR DRY MOIST	% RESID. MOIST.	% ASH d.b.	% V.M.	% F.C.	F.S.I.	% YIELD
78-286	215	0	260.91 - 262.43	RAW		1.50	16.63			6½	XXXX
				1.4 FLOAT		1.50	5.87			9	56.56
				1.4 SINK							43.44
				1.5 FLOAT		1.50	7.02			8	71.24
				1.5 SINK							28.76
				1.6 FLOAT							
				1.6 SINK							
8-287	216	0	265.48 - 268.04	RAW		1.50	27.62			5½	XXXX
				1.4 FLOAT		1.50	6.91			9	45.47
				1.4 SINK							54.53
				1.5 FLOAT		1.50	8.60			8½	55.93
				1.5 SINK							44.07
				1.6 FLOAT							
				1.6 SINK							
-288	217	X	271.53 - 276.15	RAW		1.50	33.88			5	XXXX
				1.4 FLOAT		1.50	8.48			8½	45.92
				1.4 SINK							54.08
				1.5 FLOAT		1.50	11.40			8	62.08
				1.5 SINK							37.92
				1.6 FLOAT							

TABLE 4-1
Geotechnical Core Logging*

<u>Hole No.</u>	<u>Depths (m)</u>		<u>Remarks</u>
LC-103	3.05	252.07	oriented
LC-104	9.16	215.49	oriented after 85 m (summary above)
LC-106	297.4	491.8	only orientable joints logged
LC-107	26.3	247.19	oriented logging from No. 8 seam; only orientable joints above
LC-108	148.13	173.74	oriented logging Basal Sandstone
LC-109	6.7	198.42	only orientable joints to 62.79 m, oriented logging below
LC-110	10.36	337.11	oriented
LC-112	9.30	258.17	oriented
LC-113	3.14	332.84	oriented
LC-114	17.07	322.17	oriented
LC-115	2.90	276.15	oriented (except detailed logging through major fault zone)

Total logged: 2571.64 m

* In addition to the above geotechnical logging which was performed by GA, all remaining holes or partial holes in the 1978 drilling program were summary logged by CNRL personnel.

TABLE 4-2Piezometer and Standpipe Installations

<u>Hole No.</u>	<u>Filter Zone Depth Interval (m)</u>	<u>Type of Installation</u>
LC-101	0 - 194.6	standpipe (open hole)
LC-103	239.3 - 250.8	standpipe
LC-107	235.0 - 247.2	standpipe
LC-108	0 - 90.5	standpipe (open hole)
	91.3 - 99.4	upper piezometer
	160.9 - 173.7	lower piezometer
LC-109	189.0 - 198.4	standpipe
LC-110	0 - 164.3	standpipe (open hole)
LC-111	0 - 137.7	standpipe (open hole)
	208.1 - 216.1	piezometer
LC-112	0 - 26.1	standpipe (open hole)
	52.4 - 61.2	upper piezometer
	240.9 - 258.2	lower piezometer
LC-113	166.2 - 172.7	standpipe
	319.1 - 332.8	piezometer
LC-114	273.8 - 283.0	standpipe
	314.3 - 322.2	piezometer

TABLE 8-1
Packer Test Results

Hole - Test No.	Depth Interval (m)	Rock Type	Stratigraphic Location	Piezometric Surface Elevation (m)	Permeability (cm/sec)
LC 103-1	166.2 - 177.4	sandstone	#8 - #9 interseam	1696.1	2×10^{-4}
-2	225.0 - 229.2	shale and coal	#10B - #10A interseam	1722.2	2×10^{-4}
-3A	240.6 - 252.1	sandstone	Basal Sandstone	1711.9	2×10^{-4}
-3B	240.6 - 252.1	sandstone	Basal Sandstone	1712.3	2×10^{-4}
LC 104-1	173.3 - 184.0	shale with minor sandstone	#9 - #10B interseam	1743.7	1×10^{-5}
-2A	208.9 - 215.5	sandstone	Basal Sandstone	1767.5	7×10^{-5}
-2B	211.9 - 215.5	sandstone	Basal Sandstone	1768.8	2×10^{-4}
LC 107-1	163.1 - 177.1	interbedded shale and sandstone	#8 - #9 interseam	1794.6	$*4 \times 10^{-6}$
-2	200.8 - 209.1	siltstone	#9 - #10B interseam	1800.3	$*1 \times 10^{-5}$
-3	234.5 - 247.2	sandstone	Basal Sandstone	1801.6	5×10^{-6}
LC 109-1	189.5 - 198.4	sandstone	Basal Sandstone	1888.6	5×10^{-6}
LC 112-1	239.0 - 248.4	sandstone	Faulted hole - stratigraphy uncertain	1689.4	2×10^{-4}
-2A	149.7 - 159.1	sandstone		1693.8	8×10^{-5}
-2B	149.7 - 159.1	sandstone		1693.7	1×10^{-4}
-3	94.8 - 104.2	shale		1709.4	1×10^{-4}
-4	52.1 - 61.6	shale		1707.4	6×10^{-5}
LC 113-1	307.6 - 317.0	shale	Fernie Shale	1840.3	1×10^{-5}
-2	176.3 - 185.8	sandstone	Basal Sandstone	1847.8	9×10^{-6}
-3	158.0 - 167.5	sandstone	Basal Sandstone	1839.1	6×10^{-6}
LC 114-1	305.1 - 314.6	sandstone	Basal Sandstone	1808.8	9×10^{-6}
-2	244.1 - 253.6	interbedded sandstone and shale	#8 - #9 interseam	1822.0	4×10^{-6}
-3	152.7 - 162.2	interbedded sandstone and shale	#7 - #8 interseam	1814.9	7×10^{-6}
LC 115-1	203.6 - 213.1	shale and sandstone			Indeterminate
-2A	100.0 - 109.4	sandstone	Faulted hole - stratigraphy uncertain	1579.1	9×10^{-5}
-2B	100.0 - 109.4	sandstone		1579.1	1×10^{-4}

* Test performed with drilling mud in hole, permeability value will be less than actual, formation head unaffected.

RHUR DILATOMETER DATA

Dilatation

Ti - Soft Temp.	C	0	
Tii - Max. Cont. Temp.	C	0	
Tii - Max. Dil. Temp.	C	0	
Contraction	%	0.0	
Dilatation	%	0.0	

PETROGRAPHIC DATA

VITRINOID TYPES

TYPE	PERCENT
09	0.0
10	3.6
11	16.9
12	35.1
13	4.8
14	0.0
15	0.0
16	0.0
17	0.0

PETROGRAPHIC COMPOSITION

REACTIVE COMPONENTS	VOLUME %
Total Vitrinoid	60.4
Reactive Semi-Fus.	10.0
Exinoid+Resinoid	0.0
Total Reactive Comp.	70.4

PETROGRAPHIC INDICES

Mean Reflectance	1.2
Balance Index	1.6
Strength Index	4.7
Stability Index	56.0

INERT COMPONENTES

Inert Semi-Fus.	10.1
Micrinoids	5.7
Fusinoids	8.7
Mineral Matter	5.1
Total Inert Comp.	29.6

*

W. J. ...

COMMERCIAL COAL SURVEY

MINE OPERATOR : CROWS NEST RES. LTD.
 MINE LOCATION : LINE CREEK RIDGE
 NAME OF MINE OR COAL : LINE CREEK RIDGE
 DATE SAMPLED : 03-01-79
 WEIGHT SAMPLED :
 SIZE - MINE DESIGNATION : DRILL HOLE S.G. 1.60 (Seam 6)
 SCREEN OPENING :
 E.R.L. LABORATORY NUMBER : 2114-79

	AS REC'D	DRY
	-----	---
PROXIMATE ANALYSIS		
Moisture.....%	1.43	0.00
Ash.....%	8.89	9.02
Volatile Matter....%	24.87	25.23
Fixed Carbon.....%	64.81	65.75

ULTIMATE ANALYSIS		
Carbon.....%	69.94	70.75
Hydrogen.....%	4.17	4.23
Sulphur.....%	0.55	0.56
Nitrogen.....%	1.22	1.24
Ash.....%	8.89	9.02
Oxygen (BY DIFF.)..%	13.80	14.00

CALORIFIC VALUE		
Btu/lb.....	12665	12949

ASH FUSIBILITY	
Initial Temp.....F	2340
Spheroidal.....F	2700+
Hemispherical.....F	+
Fluid Temp.....F	+

GRINDABILITY INDEX (HARDGROVE)	
	91
FREE SWELLING INDEX (ASTM)	
	N/A

ASH ANALYSIS

SiO2	56.76
Al2O3	27.81
Fe2O3	1.87
TiO2	1.88
P2O5	1.71
CaO	5.04
MgO	1.87
SO3	2.22
Na2O	0.03
K2O	0.79

GIESELER PLASTICITY

Start	C	0
Fusion Temp.	C	0
Max. Fluid Temp.	C	0
Final Fluid Temp.	C	0
Solidification	C	0
Melting Range	C	0
Max. Fluid dd/w	C	0.0
Torque g.in	C	0

RHUR DILATOMETER DATA

Dilatation

Ti	- Soft Temp.	C	0
Tii	- Max. Cont. Temp.	C	0
Tii	- Max. Dil. Temp.	C	0
Contraction		%	0.0
Dilatation		%	0.0

PETROGRAPHIC DATA

VITRINOID TYPES

TYPE	PERCENT
09	0.0
10	0.0
11	0.0
12	12.8
13	24.8
14	5.2
15	0.0
16	0.0
17	0.0

PETROGRAPHIC COMPOSITION

REACTIVE COMPONENTS	VOLUME %
Total Vitrinoid	42.8
Reactive Semi-Fus.	17.8
Exinoid+Resinoid	0.0
Total Reactive Comp.	60.6

PETROGRAPHIC INDICES

Mean Reflectance	1.3
Balance Index	3.3
Strength Index	4.6
Stability Index	36.0

INERT COMPONENTES

Inert Semi-Fus.	17.9
Micrinoids	6.2
Fusinoids	9.9
Mineral Matter	5.4
Total Inert Comp.	39.4

*

J. Montgomery

COMMERCIAL COAL SURVEY

MINE OPERATOR : CROWS NEST RES. LTD.
MINE LOCATION : LINE CREEK RIDGE
NAME OF MINE OR COAL : LINE CREEK RIDGE (SEAM 8)
DATE SAMPLED : 03-01-79
WEIGHT SAMPLED :
SIZE - MINE DESIGNATION : COMPOSITE (3 HOLES) S.G. 1.60
SCREEN OPENING :
E.R.L. LABORATORY NUMBER : 2115-79

	AS REC'D	DRY
	-----	----
PROXIMATE ANALYSIS		

Moisture.....%	0.59	0.00
Ash.....%	9.49	9.55
Volatile Matter....%	21.37	21.50
Fixed Carbon.....%	68.55	68.95

ULTIMATE ANALYSIS		

Carbon.....%	67.64	68.04
Hydrogen.....%	4.46	4.49
Sulphur.....%	0.40	0.40
Nitrogen.....%	1.02	1.03
Ash.....%	9.49	9.55
Oxygen (BY DIFF.)..%	16.40	16.49

CALORIFIC VALUE		

Btu/lb.....	13520	13600

ASH FUSIBILITY	

Initial Temp.....F	2700+
Spherical.....F	+
Hemispherical.....F	+
Fluid Temp.....F	+

GRINDABILITY INDEX (HARDGROVE)	

78	
FREE SWELLING INDEX (ASTM)	

1	

ASH ANALYSIS

SiO2	56.77
Al2O3	31.57
Fe2O3	4.09
TiO2	1.79
P2O5	1.27
CaO	2.94
MgO	0.43
SO3	0.70
Na2O	0.00
K2O	0.45

GIESELER PLASTICITY

Start	C	0
Fusion Temp.	C	0
Max. Fluid Temp.	C	0
Final Fluid Temp.	C	0
Solidification	C	0
Melting Range	C	0
Max. Fluid dd/m	C	0.0
Torque s.in	C	0

LOF NG LABORATORIES LTD

CERTIFICATE of COAL TESTING

SAMPLE NO.	IDENTIFICATION	SAMPLE TYPE	% RECOVERY		REC'D % H ₂ O	% H ₂ O	% VCL MATTER	% ASH	% FIXED CARBON	% S	BTU /LB.	F.S.I.	
			SINK	FLOAT									
LC #104													
X# #6		Raw Coal			As Received	4.49	-	18.82	18.42	58.27	.38	11790	-
					Air Dried	-	0.47	19.61	19.20	60.72	.40	12286	5 1/2
					Dry Basis	-	-	19.70	19.29	61.01	.40	12344	-
		-1.40 fl		69.22	Air Dried	-	0.71	21.85	11.51	65.93	.40	13499	6 1/2
					Dry Basis	-	-	22.01	11.59	66.40	.40	13596	-
78-51	C.W.R. LAB CNR TEST ON AIRING PULD	1.4 FLOAT		60.13	AIR DRIED	-	1.50	22.17	6.31	-	-	-	7 1/2
					AIR DRIED	-	0.0	-	11.68	-	-	-	5 1/2
		1.40x1.50		11.62	Air Dried	-	0.57	19.21	16.00	64.22	.38	12734	2 1/2
					Dry Basis	-	-	19.32	16.09	64.59	.38	12807	-
		1.50 x 1.60		5.83	Air Dried	-	0.57	18.04	26.00	55.39	.34	11162	1 1/2
					Dry Basis	-	-	18.14	26.15	55.71	.34	11226	-
		+1.60 Sink	13.33		Air Dried	-	0.68	12.62	60.05	26.65	.26	6332	1
					Dry Basis	-	-	12.71	60.46	26.83	.26	6375	-
78-51	CNR REWUN OF TEST FROM RESERVE	1.40 FLOAT		57.85	AIR DRIED	-	0.0	-	6.03	-	-	-	6

Edm. Adams

SAMPLE NO.	IDENTIFICATION	SAMPLE TYPE	% RECOVERY		REC'D % H ₂ O	% H ₂ O	% VCL MATTER	% ASH	% FIXED CARBON	% S	BTU /LB.	F.S.I.
			SINK	FLOAT								
LC # 104												
SAME Pulp # 1 # 4 78-47 PULP # 1	PULP (I SENT) SENT - 1/4" COAL LORING MADE PULP CNR LAB. CNR LAB - RUN ON LORING PULP.	Raw Coal	LINE CREEK SEAM # 8 (UPPER)	Air Dried	-	0.68	20.53	17.46	61.33	.34	12458	4 1/2
		RAW COAL		Dry Basis	-	-	20.67	17.58	61.75	.34	12543	-
		RAW COAL		AIR DRIED	.46	21.33	14.85	63.36	.36	12986	6 1/2	
		RAW		AIR DRIED	1.50	17.73	18.96	-	-	-	5	
												← AUG. 8/78
												← Sept 21/78
SAME Pulp # 2 # 5 78-49 PULP # 2	PULP (I SENT) SENT - 1/4" COAL LORING MADE PULP CNR LAB. CNR LAB - RUN ON LORING PULP	Raw Coal	LINE CREEK SEAM # 8 (LOWER)	Air Dried	-	0.77	20.33	15.47	63.43	.32	12808	3 1/2
		RAW COAL		Dry Basis	-	-	20.49	15.59	63.92	.32	12907	-
		RAW COAL		AIR DRIED	.39	20.55	16.41	62.65	.32	12584	3 1/2	
		RAW		AIR DRIED	1.50	15.50	-	-	-	-	3 1/2	
												← Aug 8
												← Sept 21
SAME Pulp # 3 # 6 78-51 PULP # 3	PULP (I SENT) SENT - 1/4" COAL LORING MADE PULP CNR LAB. CNR LAB - RUN ON LORING PULP	Raw Coal	LINE CREEK SEAM # 9	Air Dried	-	0.66	19.06	19.97	60.31	.40	12204	3 1/2
		RAW COAL		Dry Basis	-	-	19.19	20.10	60.71	.40	12285	-
		RAW COAL		AIR DRIED	.47	19.61	19.20	60.72	.40	12286	5 1/2	
		RAW		AIR DRIED	1.50	21.38	-	-	-	-	5	
												← Aug 8
												← Sept 21

ed m. Anac

SAMPLE NO.	IDENTIFICATION	SAMPLE TYPE	% RECOVERY		REC'D % H ₂ O	% H ₂ O	% VCL MATTER	% ASH	% FIXED CARBON	% S	BTU /LB.	F.S.I.		
			SINK	FLOAT										
LC #104														
#4		Raw Coal			As Received 1.19	-	21.17	14.74	62.90	.36	12891	-		
					Air Dried -	0.46	21.33	14.85	63.36	.36	12986	6½		
					Dry Basis -	-	21.43	14.92	63.65	.36	13046	-		
#78-47	CNR LAB CNR TEST ON LORING PULP	-1.40 fl		67.49	Air Dried -	0.40	22.36	6.37	70.87	.37	14455	7		
		1.4 FLOAT		58.37	Dry Basis -	-	22.45	6.40	71.15	.37	14513	7		
		-1.40 fl			AIR DRIED 1.50			5.60					6	
		1.40x1.50		15.72	AIR DRIED 0.0			6.22					2	
					Air Dried -	0.41	19.26	17.34	62.99	.31	12470		-	
					Dry Basis -	-	19.34	17.41	63.25	.31	12521		-	
				1.50 x 1.60		6.18	Air Dried -	0.44	18.74	27.04	53.78	.29	10779	1
							Dry Basis -	-	18.82	27.16	54.02	.29	10827	-
#78-47	CNR RERUN OF TEST FROM RESERVE	+1.60 Sink	10.61		Air Dried -	0.39	16.79	56.99	25.83	.24	5251	1		
					Dry Basis -	-	16.86	57.21	25.93	.24	5272	-		
		1.4 FLOAT		55.53	AIR DRY -	0.0	-	6.14	-	-	-	5		

LOKING LABORATORIES LTD

CERTIFICATE of COAL TESTING

SAMPLE NO.	IDENTIFICATION	SAMPLE TYPE	% RECOVERY			REC'D	%	%	%	%	%	BTU /LB.	F.S.I.			
			SINK	FLOAT		% H ₂ O	% H ₂ O	VCL MATTER	ASH	FIXED CARBON	S					
LC #104 #5 78-49	CNR LAB CNR TEST ON LOKING PULP	Raw Coal				As Received	1.57	-	20.31	16.21	61.91	.31	12435	-		
						Air Dried	-	0.39	20.55	16.41	62.65	.32	12584	3 1/2		
						Dry Basis	-	-	20.63	16.47	62.90	.32	12633	-		
				-1.40 fl	65.98											
				1.40 float	63.08										5	
				-1.40 fl											4 1/2	
				1.40x1.50	16.64										4	
															2	
				1.50 x 1.60		5.91									1	
															-	
				+1.60 Sink	11.47										1	
															-	

edmcg