

THE SHELL COMPANY OF AUSTRALIA LTD.

BOREHOLE LITHOLOGICAL DESCRIPTION

GRAY

GY 32

HOLE TYPE	CORE
EASTING	598,900 M AM GRID
NORTHING	5,389,800 M AM GRID
ELEVATION	400.00 M
TOTAL DEPTH DRILLED	277.40 M
DRILLING STARTED	06/07/80
DRILLING TIME	
CORE SIZE	61.1 MM
HOLE SIZE	96.1 MM
LENGTH CASED	
INITIAL WATER LEVEL	
WATER LEVEL AT GEOPHYSICAL LOGGING	
DRILLING FLUID	
DRILLING CONTRACTOR	
GEOPHYSICAL LOGGING CONTRACTOR	
LITHOLOGICAL DESCRIPTION BY	
INFORMATION AVAILABLE :	SAMPLES TAKEN ANALYTICAL DATA LITHOLOGICAL DESCRIPTION
PETROPHYSICAL WIRELINE LOGS RUN :	

*** FRAME K01***

BOREHOLE : GY 32

DEPTH TO BASE M	THICKNESS M	REC X	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
9.98	9.98	0		CORE LOSS	
*** CORE DESCRIPTION ***					
10.06	0.08	100		100% CARBONACEOUS MUDSTONE	BLACK, COMPLETELY WEATHERED, MODERATELY WEAK ROCK.
10.13	0.07	100		100% MUDSTONE	DARK GREY, COMPLETELY WEATHERED, STRONG ROCK.
10.23	0.10	100		100% SANDSTONE, FINE GRAINED	DARK GREY, COMPLETELY WEATHERED, VERY STRONG ROCK.
10.26	0.03	100		100% MUDSTONE	BROWN, COMPLETELY WEATHERED, VERY WEAK ROCK.
10.32	0.06	100		100% CARBONACEOUS MUDSTONE	BLACK, HIGHLY WEATHERED, WEAK ROCK.
10.33	0.01	100		100% MUDSTONE	BROWN, COMPLETELY WEATHERED, VERY WEAK ROCK.
10.36	0.03	100		100% CARBONACEOUS MUDSTONE	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
10.42	0.06	100		100% SANDSTONE, FINE GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK, WITH PLANT REMAINS.
10.46	0.04	100		100% CARBONACEOUS MUDSTONE	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
10.51	0.05	100		100% SANDSTONE, FINE GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
10.70	0.19	100		100% MUDSTONE	CREAM, HIGHLY WEATHERED, VERY WEAK ROCK.
10.95	0.25	100		100% CARBONACEOUS MUDSTONE	MUDSTONE, BANDS, BLACK, MODERATELY WEATHERED, WEAK ROCK.
11.04	0.09	100		100% CARBONACEOUS MUDSTONE	GRADING TO, MUDSTONE, GREY, SLIGHTLY WEATHERED, MODERATELY WEAK ROCK.
11.58	0.54	100		100% MUDSTONE	GREY, HIGHLY WEATHERED, MODERATELY WEAK ROCK.
11.73	0.15	100		100% SANDSTONE	VERY FINE GRAINED, LIGHT GREY, SLIGHTLY WEATHERED, MODERATELY STRONG ROCK.
13.08	1.35	100		100% MUDSTONE	BUFF, MODERATELY WEATHERED, MODERATELY WEAK ROCK.
14.40	1.32	100		100% SANDSTONE, FINE GRAINED	CREAM, MODERATELY WEATHERED, MODERATELY STRONG ROCK.
15.00	0.60	100		100% SANDSTONE, FINE GRAINED	MUDSTONE, BANDS, GREY, SLIGHTLY WEATHERED, MODERATELY STRONG ROCK.
15.48	0.48	100		100% SANDSTONE, FINE GRAINED	GRADING TO, MUDSTONE, GREY, UNWEATHERED, MODERATELY WEAK ROCK.
15.63	0.15	100		100% SANDSTONE	MED.-FINE GRAINED, YELLOW-GREY, SLIGHTLY WEATHERED, MODERATELY STRONG ROCK.
15.72	0.09	100		100% SANDSTONE	VERY FINE GRAINED, GREY, UNWEATHERED, MODERATELY WEAK ROCK.
15.98	0.26	100		100% SANDSTONE	MED.-FINE GRAINED, YELLOW-GREY, SLIGHTLY WEATHERED, MODERATELY STRONG ROCK.
16.14	0.16	100		100% SANDSTONE, FINE GRAINED	GREY, SLIGHTLY WEATHERED, MODERATELY WEAK ROCK.

DEPTH TO BASE M	THICKNESS M	REC %	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
16.26	0.12	100		100% SANDSTONE	MED.-FINE GRAINED, YELLOW-GREY, SLIGHTLY WEATHERED, MODERATELY STRONG ROCK.
16.36	0.10	100		100% MUDSTONE	GREY, UNWEATHERED, MODERATELY WEAK ROCK.
16.93	0.57	100		100% SANDSTONE, FINE GRAINED	GREY, UNWEATHERED, MODERATELY STRONG ROCK.
17.04	0.11	100		100% SANDSTONE	MED.-FINE GRAINED, LIGHT GREY, UNWEATHERED, STRONG ROCK, WITH CARBONACEOUS WISPS.
21.99	4.95	100		95% SANDSTONE, FINE GRAINED 5% SANDSTONE	GREY. MED.-FINE GRAINED, LENSES, LIGHT GREY. UNWEATHERED, MODERATELY STRONG ROCK.
26.11	4.12	100		100% SANDSTONE, MEDIUM GRAINED	YELLOW-GREY, SLIGHTLY WEATHERED, STRONG ROCK.
26.80	0.69	100		90% SANDSTONE, MEDIUM GRAINED 10% MUDSTONE	COALY, FRAGMENTS, LIGHT GREY. PEBBLY, GREY. UNWEATHERED, STRONG ROCK.
28.85	2.05	100		100% SANDSTONE	MED.-FINE GRAINED, LIGHT GREY, UNWEATHERED, STRONG ROCK.
29.22	0.37	100		100% SANDSTONE, MEDIUM GRAINED	COALY, FRAGMENTS, LIGHT GREY, UNWEATHERED, STRONG ROCK, WITH CARBONACEOUS WISPS.
31.70	2.48	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, STRONG ROCK.
32.16	0.46	100		100% SANDSTONE, MEDIUM GRAINED	COALY, FRAGMENTS, LIGHT GREY, UNWEATHERED, STRONG ROCK.
32.54	0.38	100		100% MUDSTONE	DARK GREY, SLIGHTLY WEATHERED, WEAK ROCK.
32.56	0.02	100		100% CARBONACEOUS MUDSTONE	BLACK, SLIGHTLY WEATHERED, WEAK ROCK.
32.82	0.26	100		100% MUDSTONE	BLACK, SLIGHTLY WEATHERED, WEAK ROCK.
33.58	0.76	100		100% CARBONACEOUS MUDSTONE	BLACK, SLIGHTLY WEATHERED, MODERATELY WEAK ROCK.
33.72	0.14	100		100% MUDSTONE	LIGHT BROWN, SLIGHTLY WEATHERED, WEAK ROCK.
33.83	0.11	100		100% CARBONACEOUS MUDSTONE	COALY, LENSES, BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
33.94	0.11	100		100% MUDSTONE	CARBONACEOUS, BANDS, LIGHT BROWN, UNWEATHERED, MODERATELY WEAK ROCK.
34.02	0.08	100		100% COAL, DULL	MUDSTONE, BANDS, UNWEATHERED.
34.46	0.44	100		100% MUDSTONE	CARBONACEOUS, BANDS, LIGHT GREY, SLIGHTLY WEATHERED, WEAK ROCK.
34.62	0.16	100		100% COAL, DULL	UNWEATHERED.
34.63	0.01	100		100% MUDSTONE	LIGHT BROWN, MODERATELY WEATHERED, VERY WEAK ROCK.
34.74	0.11	100		100% COAL, DULL WITH NUMEROUS BRIGHT BANDS	UNWEATHERED.
35.03	0.29	100		100% MUDSTONE	KAOLINITIC, LIGHT GREY, UNWEATHERED, MODERATELY WEAK ROCK.
35.21	0.18	100		100% COAL, DULL	UNWEATHERED.

DEPTH TO BASE M	THICKNESS M	REC X	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
					*** CORE DESCRIPTION ***
35.26	0.05	100		100% MUDSTONE	LIGHT BROWN, UNWEATHERED, MODERATELY WEAK ROCK, WITH PLANT REMAINS.
35.53	0.27	100		100% COAL, DULL WITH FEW BRIGHT BANDS	UNWEATHERED.
35.67	0.14	100		100% SANDSTONE, MEDIUM GRAINED	CARBONACEOUS, BLACK, UNWEATHERED, STRONG ROCK.
35.79	0.12	100		100% COAL, DULL	
35.80	0.01	100		100% CARBONACEOUS MUDSTONE	BLACK, MODERATELY WEAK ROCK.
35.90	0.10	100		100% COAL, DULL	MUDSTONE, BANDS.
36.05	0.15	100		100% COAL, DULL	
36.14	0.09	100		100% MUDSTONE	LIGHT BROWN.
36.16	0.02	100		100% CARBONACEOUS MUDSTONE	BLACK, MODERATELY WEAK ROCK.
36.28	0.12	100		100% MUDSTONE	LIGHT BROWN, MODERATELY WEAK ROCK.
36.34	0.06	100		100% COAL, DULL	
36.37	0.03	100		100% SANDSTONE	VERY FINE GRAINED, LIGHT BROWN, MODERATELY STRONG ROCK.
36.39	0.02	100		100% TONSTEIN	BLACK, MODERATELY STRONG ROCK.
36.51	0.12	100		100% MUDSTONE	COALY, LENSES, LIGHT BROWN, MODERATELY WEAK ROCK.
36.70	0.19	100		100% COAL, DULL WITH FEW BRIGHT BANDS	
36.84	0.14	100		100% COAL, BRIGHT WITH NUMEROUS DULL BANDS	
36.99	0.15	100		100% MUDSTONE	LIGHT BROWN, MODERATELY WEAK ROCK.
37.12	0.13	100		100% COAL, DULL	
37.36	0.24	100		100% SANDSTONE, FINE GRAINED	LIGHT GREY, STRONG ROCK.
39.98	2.62	100		100% SANDSTONE	MED.-FINE GRAINED, LIGHT GREY, STRONG ROCK.
40.20	0.22	100		100% SANDSTONE, MEDIUM GRAINED	COALY, FRAGMENTS, LIGHT GREY, STRONG ROCK.
40.25	0.05	100		100% SANDSTONE, FINE GRAINED	GREY, UNWEATHERED, STRONG ROCK.
41.58	1.33	100		100% MUDSTONE	CARBONACEOUS, LENSES, GREY, UNWEATHERED, MODERATELY STRONG ROCK, WITH DISTURBED BEDDING.
42.85	1.27	100		100% MUDSTONE	GREY, UNWEATHERED, MODERATELY WEAK ROCK.
43.15	0.30	100		100% MUDSTONE	YELLOW-GREY, SLIGHTLY WEATHERED, MODERATELY WEAK ROCK.
43.35	0.20	100		100% SANDSTONE, MEDIUM GRAINED	MUDSTONE, PEBBLY, YELLOW-GREY, SLIGHTLY WEATHERED, STRONG ROCK.
46.11	2.76	100		100% SANDSTONE	MED.-FINE GRAINED, YELLOW-GREY, SLIGHTLY WEATHERED, STRONG ROCK.
48.06	1.95	100		100% SANDSTONE	MED.-COARSE GRAINED, YELLOW-GREY.

DEPTH TO BASE M	THICKNESS M	REC %	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION *** CORE DESCRIPTION ***
48.71	0.65	100		100% SANDSTONE, MEDIUM GRAINED	YELLOW-GREY, SLIGHTLY WEATHERED, STRONG ROCK.
50.49	1.78	100		100% SANDSTONE, MEDIUM GRAINED	COALY, FRAGMENTS, LIGHT GREY, UNWEATHERED, STRONG ROCK.
51.21	0.72	100		100% SANDSTONE, MEDIUM GRAINED	CARBONACEOUS, BLACK, MODERATELY WEATHERED, MODERATELY WEAK ROCK.
53.70	2.49	100		100% SANDSTONE	MED.-FINE GRAINED, LIGHT GREY, UNWEATHERED, STRONG ROCK, WITH CARBONACEOUS WISPS.
53.80	0.10	100		100% SANDSTONE, MEDIUM GRAINED	MUDSTONE, LENSES, LIGHT GREY, UNWEATHERED, STRONG ROCK.
59.10	5.30	100		95% SANDSTONE 5% COAL	MED.-FINE GRAINED, LIGHT GREY. FRAGMENTS. STRONG ROCK, WITH CARBONACEOUS WISPS.
59.42	0.32	100		100% MUDSTONE	GREY, MODERATELY WEAK ROCK.
59.45	0.03	100		100% CLAYSTONE	CREAM, WEAK ROCK.
59.48	0.03	100		100% CARBONACEOUS MUDSTONE	MUDSTONE, LENSES, BLACK, MODERATELY WEAK ROCK.
59.66	0.18	100		100% MUDSTONE	BADLY BROKEN, LIGHT GREEN, MODERATELY WEAK ROCK.
59.67	0.01	100		100% CARBONACEOUS MUDSTONE	BLACK, MODERATELY WEAK ROCK.
59.75	0.08	100		100% MUDSTONE	LIGHT GREEN, WEAK ROCK.
60.00	0.25	100		100% CARBONACEOUS MUDSTONE	BLACK, MODERATELY WEAK ROCK.
60.16	0.16	100		100% MUDSTONE	KAOLINITIC, LIGHT BROWN, WEAK ROCK.
60.24	0.08	100		100% CARBONACEOUS MUDSTONE	BLACK, MODERATELY WEAK ROCK.
60.31	0.07	100		100% MUDSTONE	KAOLINITIC, LIGHT BROWN, VERY WEAK ROCK.
60.67	0.36	100		100% CARBONACEOUS MUDSTONE	BLACK, MODERATELY WEAK ROCK.
60.86	0.19	100		100% MUDSTONE	LIGHT BROWN, WEAK ROCK.
61.01	0.15	100		100% CARBONACEOUS MUDSTONE	BLACK, MODERATELY WEAK ROCK.
61.12	0.11	100		100% MUDSTONE	LIGHT BROWN, MODERATELY WEAK ROCK.
61.32	0.20	100		100% CARBONACEOUS MUDSTONE	COALY, BANDS, BLACK, MODERATELY WEAK ROCK.
61.92	0.60	100		100% MUDSTONE	LIGHT GREY, WEAK ROCK.
62.35	0.43	100		100% CARBONACEOUS MUDSTONE	DARK GREY, MODERATELY WEAK ROCK.
62.44	0.09	100		100% COAL, HEAVY DULL	
62.78	0.34	100		100% MUDSTONE	COALY, BANDS, DARK BROWN, MODERATELY WEAK ROCK.
62.85	0.07	100		100% CARBONACEOUS MUDSTONE	BLACK, MODERATELY WEAK ROCK.
62.88	0.03	100		100% MUDSTONE	LIGHT BROWN, WEAK ROCK.
63.00	0.12	100		100% COAL, DULL	

DEPTH TO BASE M	THICKNESS M	REC %	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
*** CORE DESCRIPTION ***					
63.04	0.04	100		100% CARBONACEOUS MUDSTONE	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
63.13	0.09	100		100% MUDSTONE	BROWN, UNWEATHERED, WEAK ROCK.
63.26	0.13	100		100% CARBONACEOUS MUDSTONE	MUDSTONE, BANDS, BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
63.31	0.05	100		100% COAL, DULL	
63.48	0.17	100		100% MUDSTONE	CARBONACEOUS, LENSES, LIGHT BROWN, MODERATELY WEAK ROCK.
63.54	0.06	100		100% CARBONACEOUS MUDSTONE	BLACK, MODERATELY WEAK ROCK.
63.87	0.33	100		100% MUDSTONE	BUFF, WEAK ROCK.
63.92	0.05	100		100% MUDSTONE	DARK GREY, MODERATELY WEAK ROCK.
63.96	0.04	100		100% MUDSTONE	LIGHT GREY, WEAK ROCK.
64.10	0.14	100		100% COAL, HEAVY DULL	
64.70	0.60	100		100% SANDSTONE, FINE GRAINED	CARBONACEOUS, BANDS, BROWN, MODERATELY WEAK ROCK.
64.80	0.10	100		100% COAL, DULL	MUDSTONE, LENSES.
64.81	0.01	100		100% MUDSTONE	COALY, FRAGMENTS, LIGHT BROWN, WEAK ROCK.
64.86	0.05	100		100% COAL, DULL	
64.88	0.02	100		100% MUDSTONE	LIGHT BROWN, WEAK ROCK.
64.90	0.02	100		100% COAL, DULL	
64.96	0.06	100		100% COAL, DULL	
65.00	0.04	100		100% MUDSTONE	LIGHT BROWN, VERY WEAK ROCK.
65.18	0.18	100		100% SANDSTONE, FINE GRAINED	CARBONACEOUS, BLACK, MODERATELY WEAK ROCK.
65.42	0.24	100		100% MUDSTONE	CARBONACEOUS, BANDS, LIGHT BROWN, MODERATELY WEAK ROCK.
65.70	0.28	100		100% COAL, DULL	
65.77	0.07	100		100% MUDSTONE	LIGHT BROWN, VERY WEAK ROCK.
65.83	0.06	100		100% MUDSTONE	LIGHT GREY.
65.86	0.03	100		100% COAL, DULL	LIGHT BROWN.
65.87	0.01	100		100% MUDSTONE	WEAK ROCK.
66.11	0.24	100		100% COAL, HEAVY DULL	
66.12	0.01	100		100% MUDSTONE	LIGHT BROWN, VERY WEAK ROCK.
66.22	0.10	100		100% COAL, HEAVY DULL	
66.37	0.15	100		100% MUDSTONE	CARBONACEOUS, LENSES, DARK BROWN.
66.47	0.10	100		100% COAL, HEAVY DULL	

DEPTH TO BASE M	THICKNESS M	REC X	SAMPLE NUMBER	ROCK TYPE *** CORE DESCRIPTION ***	GEOLOGICAL DESCRIPTION
66.56	0.09	100		100% MUDSTONE	GREY, MODERATELY WEAK ROCK.
66.58	0.02	100		100% CARBONACEOUS MUDSTONE	BLACK, MODERATELY WEAK ROCK.
66.63	0.05	100		100% MUDSTONE	GREY, MODERATELY WEAK ROCK.
66.70	0.07	100		100% COAL, DULL	
67.27	0.57	100		100% SANDSTONE, FINE GRAINED	GREY, MODERATELY STRONG ROCK.
67.33	0.06	100		100% COAL, DULL	MUDSTONE, LENSES.
67.71	0.38	100		100% SANDSTONE, FINE GRAINED	LIGHT GREY, STRONG ROCK.
69.13	1.42	100		100% MUDSTONE	GREY, MODERATELY WEAK ROCK.
69.21	0.08	100		100% MUDSTONE	DARK GREY, MODERATELY WEAK ROCK.
70.00	0.79	100		100% MUDSTONE	GREY, MODERATELY WEAK ROCK.
70.55	0.55	100		100% MUDSTONE	DARK GREY, MODERATELY WEAK ROCK.
70.60	0.05	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, MODERATELY STRONG ROCK.
70.70	0.10	100		100% COAL, DULL WITH FEW BRIGHT BANDS	
70.88	0.18	100		100% MUDSTONE	BROWN, MODERATELY WEAK ROCK, WITH PLANT REMAINS.
71.55	0.67	100		100% SANDSTONE	MED.-FINE GRAINED, LIGHT GREY, STRONG ROCK.
72.64	1.09	100		100% MUDSTONE	GREY, MODERATELY WEAK ROCK.
73.95	1.29	100		100% SANDSTONE	VERY FINE GRAINED, GREY, MODERATELY STRONG ROCK.
73.97	0.04	100		100% MUDSTONE	CALCITIC, BUFF, MODERATELY WEAK ROCK.
74.22	0.25	100		100% MUDSTONE	GREY, MODERATELY WEAK ROCK, WITH PLANT REMAINS.
74.64	0.42	100		100% MUDSTONE	DARK GREY, MODERATELY WEAK ROCK, WITH PLANT REMAINS.
76.19	1.55	100		100% SANDSTONE	VERY FINE GRAINED, GREY, MODERATELY STRONG ROCK.
76.43	0.24	0		CORE LOSS	
76.60	0.17	100		100% SANDSTONE	VERY FINE GRAINED, GREY, MODERATELY STRONG ROCK.
77.01	0.41	100		100% CARBONACEOUS MUDSTONE	BLACK, MODERATELY WEAK ROCK.
77.12	0.11	100		100% MUDSTONE	LIGHT BROWN, WEAK ROCK.
77.15	0.03	100		100% CARBONACEOUS MUDSTONE	BLACK, MODERATELY WEAK ROCK.
77.27	0.12	100		100% COAL, DULL	
77.30	0.03	100		100% CARBONACEOUS MUDSTONE	BLACK, MODERATELY WEAK ROCK, WITH PLANT REMAINS.
77.32	0.02	100		100% MUDSTONE	LIGHT BROWN, MODERATELY WEAK ROCK.
77.38	0.06	100		100% CARBONACEOUS MUDSTONE	BLACK, MODERATELY WEAK ROCK, WITH PLANT REMAINS.
77.59	0.01	100		100% MUDSTONE	LIGHT BROWN, WEAK ROCK.

DEPTH TO BASE M	THICKNESS M	REC %	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
*** CORE DESCRIPTION ***					
77.57	0.18	100		100% CARBONACEOUS MUDSTONE	BLACK, MODERATELY WEAK ROCK.
77.68	0.11	100		100% MUDSTONE	LIGHT BROWN, WEAK ROCK.
77.73	0.05	100		100% CARBONACEOUS MUDSTONE	BLACK, MODERATELY WEAK ROCK.
77.75	0.02	100		100% MUDSTONE	LIGHT BROWN, WEAK ROCK.
77.78	0.03	100		100% CARBONACEOUS MUDSTONE	BLACK, MODERATELY WEAK ROCK.
77.81	0.03	100		100% MUDSTONE	LIGHT BROWN, WEAK ROCK.
79.01	1.20	100		100% CARBONACEOUS MUDSTONE	ARENACEOUS, LENSES, BLACK, MODERATELY WEAK ROCK.
79.03	0.02	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, STRONG ROCK.
79.05	0.02	100		100% COAL, BRIGHT WITH NUMEROUS DULL BANDS	
79.48	0.43	100		100% MUDSTONE	CARBONACEOUS, LENSES, BROWN, WEAK ROCK.
79.53	0.05	100		100% MUDSTONE	LIGHT GREY, WEAK ROCK.
80.20	0.67	100		100% CARBONACEOUS MUDSTONE	DARK GREY, MODERATELY WEAK ROCK.
80.45	0.25	100		100% SANDSTONE, FINE GRAINED	GRADING TO, SCREE, BLACK, MODERATELY STRONG ROCK.
80.66	0.21	100		100% SANDSTONE	VERY FINE GRAINED, CARBONACEOUS, DARK GREY, STRONG ROCK.
80.81	0.15	100		100% SANDSTONE, FINE GRAINED	LIGHT GREY, STRONG ROCK.
80.92	0.11	100		100% MUDSTONE	CALCITIC, LIGHT GREY, VERY WEAK ROCK.
81.23	0.31	100		100% CARBONACEOUS MUDSTONE	BLACK, MODERATELY WEAK ROCK.
82.06	0.83	100		100% SANDSTONE, FINE GRAINED	CARBONACEOUS, BLACK, STRONG ROCK.
82.17	0.11	100		100% COAL	FRAGMENTS, CALCITIC, BROWN-BLACK, MODERATELY STRONG ROCK.
82.40	0.23	100		100% SANDSTONE, FINE GRAINED	GREY, STRONG ROCK.
82.74	0.34	100		100% SANDSTONE, FINE GRAINED	COALY, LENSES, DARK GREY, STRONG ROCK.
82.84	0.10	100		100% MUDSTONE	LIGHT GREY, WEAK ROCK.
82.89	0.05	100		100% CARBONACEOUS MUDSTONE	BLACK, MODERATELY WEAK ROCK.
82.91	0.02	100		100% MUDSTONE	LIGHT GREY, MODERATELY WEAK ROCK.
83.31	0.40	100		95% SANDSTONE 5% COAL	MED.-FINE GRAINED, CARBONACEOUS, BLACK. FRAGMENTS. STRONG ROCK.
83.77	0.46	100		100% SANDSTONE, FINE GRAINED	GREY, STRONG ROCK, WITH PLANT REMAINS.
84.09	0.32	100		100% SANDSTONE	VERY FINE GRAINED, GREY, MODERATELY STRONG ROCK, WITH PLANT REMAINS.
84.59	0.50	100		100% MUDSTONE	DARK GREY, MODERATELY WEAK ROCK.

DEPTH TO BASE M	THICKNESS M	REC %	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
*** CORE DESCRIPTION ***					
84.88	0.29	100		95% SANDSTONE, MEDIUM GRAINED 5% COAL	MUDSTONE, BANDS, LIGHT GREY. FRAGMENTS. STRONG ROCK.
87.82	2.94	100		100% SANDSTONE, FINE GRAINED	GREY, MODERATELY STRONG ROCK.
88.01	0.19	100		100% SANDSTONE, MEDIUM GRAINED	COALY, FRAGMENTS, LIGHT GREY, STRONG ROCK.
89.69	1.68	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, STRONG ROCK.
90.03	0.34	100		100% SANDSTONE	MED.-COARSE GRAINED, LIGHT GREY, STRONG ROCK.
90.33	0.30	100		100% SANDSTONE, FINE GRAINED	COALY, BANDS, LIGHT GREY, STRONG ROCK, WITH POOR SORTING.
90.87	0.54	100		100% SANDSTONE	MED.-COARSE GRAINED, LIGHT GREY, STRONG ROCK, WITH CARBONACEOUS WISPS.
91.16	0.29	100		100% SANDSTONE, FINE GRAINED	LIGHT GREY, STRONG ROCK.
91.36	0.20	100		100% MUDSTONE	GREY, MODERATELY WEAK ROCK.
91.66	0.30	100		100% SANDSTONE, MEDIUM GRAINED	CONGLOMERATIC, LIGHT GREY, STRONG ROCK.
94.24	2.58	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, STRONG ROCK.
95.06	0.82	100		100% SANDSTONE, MEDIUM GRAINED	COALY, FRAGMENTS, LIGHT GREY, STRONG ROCK.
96.03	0.97	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, STRONG ROCK.
96.09	0.06	100		100% MUDSTONE	BROWN-BLACK, VERY WEAK ROCK.
96.15	0.06	100		100% SANDSTONE, FINE GRAINED	COALY, FRAGMENTS, LIGHT GREY, STRONG ROCK, WITH POOR SORTING.
96.82	0.67	100		100% SANDSTONE, COARSE GRAINED	COALY, FRAGMENTS, LIGHT GREY, STRONG ROCK.
97.00	0.18	100		100% SANDSTONE, FINE GRAINED	COALY, FRAGMENTS, LIGHT GREY, STRONG ROCK.
97.04	0.04	100		100% MUDSTONE	COALY, TRACES, DARK GREY, WEAK ROCK.
97.18	0.14	100		100% COAL, DULL	
97.30	0.12	100		60% COAL, DULL 40% MUDSTONE	BADLY BROKEN. BADLY BROKEN, BROWN. MODERATELY WEAK ROCK.
97.42	0.12	100		100% MUDSTONE	BROWN, WEAK ROCK.
97.70	0.28	100		100% SANDSTONE, FINE GRAINED	COALY, FRAGMENTS, LIGHT GREY, STRONG ROCK.
98.95	1.25	100		100% SANDSTONE	MED.-FINE GRAINED, LIGHT GREY, STRONG ROCK.
99.25	0.30	100		60% SANDSTONE 40% SANDSTONE	MED.-FINE GRAINED, LIGHT GREY. VERY FINE GRAINED, PEBBLY, LIGHT GREY. STRONG ROCK, WITH POOR SORTING.
100.44	1.19	100		100% SANDSTONE	MED.-FINE GRAINED, LIGHT GREY, STRONG ROCK, WITH CARBONACEOUS WISPS.
100.57	0.13	100		100% MUDSTONE	LIGHT GREY, MODERATELY WEAK ROCK.

DEPTH TO BASE M	THICKNESS M	REC %	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
					*** CORE DESCRIPTION ***
100.65	0.08	100		100% PEBBLE CONGLOMERATE	LIGHT GREY, STRONG ROCK.
102.82	2.17	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, STRONG ROCK.
103.70	0.88	100		100% SANDSTONE, MEDIUM GRAINED	COALY, FRAGMENTS, LIGHT GREY, STRONG ROCK.
113.47	9.77	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, STRONG ROCK.
113.64	0.17	100		100% SANDSTONE, MEDIUM GRAINED	PEBBLY, LIGHT GREY, STRONG ROCK.
113.89	0.25	100		100% CARBONACEOUS MUDSTONE	BLACK, MODERATELY STRONG ROCK.
114.10	0.21	100		100% SANDSTONE, MEDIUM GRAINED	CONGLOMERATIC, LIGHT GREY, STRONG ROCK.
116.40	2.30	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, STRONG ROCK.
116.53	0.13	100		100% SANDSTONE, MEDIUM GRAINED	PEBBLY, LIGHT GREY, STRONG ROCK.
116.68	0.15	100		100% MUDSTONE	GREY, MODERATELY WEAK ROCK.
117.04	0.36	100		100% SANDSTONE, MEDIUM GRAINED	GRADING TO, FINE GRAINED, LIGHT GREY, STRONG ROCK.
117.23	0.19	100		100% SANDSTONE, FINE GRAINED	LIGHT GREY, STRONG ROCK.
120.50	3.27	100		100% SANDSTONE	MED.-FINE GRAINED, LIGHT GREY, STRONG ROCK.
121.25	0.75	100		95% SANDSTONE 5% COAL	MED.-FINE GRAINED, LIGHT GREY. FRAGMENTS. STRONG ROCK.
121.49	0.24	100		100% SANDSTONE, FINE GRAINED	LIGHT GREY, STRONG ROCK.
127.34	5.85	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, STRONG ROCK.
128.85	1.51	100		100% SANDSTONE, MEDIUM GRAINED	COALY, FRAGMENTS, LIGHT GREY, STRONG ROCK.
132.06	3.21	100		100% SANDSTONE	MED.-FINE GRAINED, LIGHT GREY, STRONG ROCK.
132.26	0.20	100		100% PEBBLE CONGLOMERATE	LIGHT GREY, STRONG ROCK, WITH PEBBLE LINEATION.
132.44	0.18	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, STRONG ROCK.
132.52	0.08	100		100% PEBBLE CONGLOMERATE	LIGHT GREY, STRONG ROCK, WITH PEBBLE LINEATION.
134.10	1.58	100		100% SANDSTONE	MED.-COARSE GRAINED, LIGHT GREY, STRONG ROCK.
138.73	4.63	100		100% SANDSTONE	MED.-FINE GRAINED, LIGHT GREY, STRONG ROCK.
149.90	11.17	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, STRONG ROCK.
150.47	0.57	100		100% SANDSTONE, MEDIUM GRAINED	PEBBLY, LIGHT GREY, STRONG ROCK.
155.06	4.59	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, STRONG ROCK.
155.17	0.11	100		100% COAL, HEAVY DULL	
155.31	0.14	100		100% SANDSTONE, MEDIUM GRAINED	GRADING TO, COARSE GRAINED, LIGHT GREY, STRONG ROCK.
157.26	1.95	100		100% SANDSTONE	MED.-FINE GRAINED, LIGHT GREY, STRONG ROCK.
157.36	0.10	100		100% CARBONACEOUS MUDSTONE	DARK GREY, MODERATELY WEAK ROCK.

DEPTH TO BASE M	THICKNESS M	REC X	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
158.52	1.16	100		100% SANDSTONE	MED.-FINE GRAINED, LIGHT GREY, STRONG ROCK.
164.46	5.94	100		100% SANDSTONE, MEDIUM GRAINED	COALY, FRAGMENTS, LIGHT GREY, STRONG ROCK.
166.59	2.13	100		100% SANDSTONE	MED.-FINE GRAINED, LIGHT GREY, STRONG ROCK.
168.32	1.73	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, STRONG ROCK.
168.75	0.43	100		100% SANDSTONE	MED.-FINE GRAINED, LIGHT GREY, MODERATELY WEAK ROCK.
168.77	0.02	100		100% CARBONACEOUS MUDSTONE	BLACK, MODERATELY WEAK ROCK.
173.77	5.00	100		100% SANDSTONE	MED.-FINE GRAINED, LIGHT GREY, STRONG ROCK.
173.91	0.14	100		100% CALCRETE	BUFF, STRONG ROCK.
175.70	1.79	100		100% SANDSTONE	MED.-FINE GRAINED, LIGHT GREY, STRONG ROCK.
177.58	1.88	100		100% SANDSTONE	MED.-COARSE GRAINED, LIGHT GREY, STRONG ROCK.
177.90	0.32	100		100% CALCRETE	BUFF, STRONG ROCK.
178.51	0.61	100		100% SANDSTONE	MED.-COARSE GRAINED, LIGHT GREY, STRONG ROCK.
179.22	0.71	100		100% SANDSTONE	MED.-FINE GRAINED, LIGHT GREY, STRONG ROCK.
181.12	1.90	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, STRONG ROCK, THICKLY LAMINATED.
181.18	0.06	100		100% SANDSTONE, FINE GRAINED	GREY-GREEN, STRONG ROCK.
189.53	8.35	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, STRONG ROCK.
189.92	0.39	100		100% CALCRETE	BUFF, STRONG ROCK.
190.55	0.63	100		100% SANDSTONE, MEDIUM GRAINED	COALY, FRAGMENTS, GREY-GREEN, WITH KAOLINITE, STRONG ROCK.
190.70	0.15	100		50% SANDSTONE, MEDIUM GRAINED 50% CARBONACEOUS MUDSTONE	FINE GRAINED SANDSTONE, LENSES, LIGHT GREY. BLACK. MODERATELY STRONG ROCK, VERY THINLY BEDDED, BASAL CONTACT EROSIONAL.
190.74	0.04	100		100% MUDSTONE	SANDSTONE, LENSES, GREY, MODERATELY STRONG ROCK, WITH CARBONACEOUS WISPS.
190.86	0.12	100		100% CARBONACEOUS MUDSTONE	BLACK, MODERATELY STRONG ROCK, VERY WIDELY SPACED JOINTS.
191.76	0.90	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, VERY STRONG ROCK.
191.81	0.05	100		100% MUDSTONE	GREY, MODERATELY STRONG ROCK, WITH CARBONACEOUS WISPS.
191.85	0.04	100		100% CARBONACEOUS MUDSTONE	BLACK, MODERATELY STRONG ROCK, VERY WIDELY SPACED JOINTS.
191.95	0.10	100		100% SANDSTONE, MEDIUM GRAINED	COARSE GRAINED, FRAGMENTS, LIGHT GREY, VERY STRONG ROCK, WITH MUD PELLETS.
192.09	0.14	100		100% MUDSTONE	GRADING TO, SANDSTONE, GREY, MODERATELY STRONG ROCK.

DEPTH TO BASE M	THICKNESS M	REC X	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
192.34	0.25	100		100% SANDSTONE, MEDIUM GRAINED	COARSE GRAINED, FRAGMENTS, LIGHT GREY, VERY STRONG ROCK.
192.38	0.04	100		100% CARBONACEOUS MUDSTONE	BLACK, MODERATELY STRONG ROCK.
192.42	0.04	100		100% SANDSTONE, FINE GRAINED	MUDSTONE, FRAGMENTS, VERY STRONG ROCK.
192.54	0.12	100		100% SANDSTONE, FINE GRAINED	LIGHT GREY, VERY STRONG ROCK.
192.77	0.23	100		100% MUDSTONE	GREY, MODERATELY STRONG ROCK, WITH PLANT REMAINS.
193.25	0.48	100		50% MUDSTONE 50% SANDSTONE, FINE GRAINED	GREY. LIGHT GREY. STRONG ROCK.
193.70	0.45	100		100% MUDSTONE	FINE GRAINED SANDSTONE, BANDS, DARK GREY, STRONG ROCK.
194.63	0.93	100		100% MUDSTONE	FINE GRAINED SANDSTONE, LAMINAE, DARK GREY, STRONG ROCK.
194.91	0.28	100		60% MUDSTONE 40%	DARK GREY. MODERATELY STRONG ROCK.
194.96	0.05	100		100% SANDSTONE, FINE GRAINED	LIGHT GREY, VERY STRONG ROCK.
195.01	0.05	100		100% SANDSTONE, FINE GRAINED	SILTSTONE, BANDS, LIGHT GREY, VERY STRONG ROCK.
195.08	0.07	100		100% SANDSTONE, FINE GRAINED	LIGHT GREY, VERY STRONG ROCK.
195.49	0.41	100		100% SANDSTONE, FINE GRAINED	SILTSTONE, BANDS, LIGHT GREY, VERY STRONG ROCK.
196.18	0.69	100		100% SANDSTONE, FINE GRAINED	CARBONACEOUS, BANDS, LIGHT BROWN, VERY STRONG ROCK, WITH CARBONACEOUS WISPS.
196.91	0.73	100		100% SANDSTONE, MEDIUM GRAINED	CARBONACEOUS, LAMINAE, LIGHT GREY, VERY STRONG ROCK, WITH CARBONACEOUS WISPS.
196.97	0.06	100		100% SANDSTONE, MEDIUM GRAINED	CARBONACEOUS, LAMINAE, LIGHT GREY, VERY STRONG ROCK, WITH MUD PELLETS.
198.23	1.26	100		100% MUDSTONE	FINE GRAINED SANDSTONE, LAMINAE, GREY, STRONG ROCK, WITH PLANT REMAINS, VERY WIDELY SPACED JOINTS.
198.61	0.38	100		100% SANDSTONE, FINE GRAINED	MUDSTONE, LAMINAE, LIGHT GREY, STRONG ROCK.
199.56	0.95	100		100% MUDSTONE	GREY, MODERATELY STRONG ROCK.
199.59	0.03	100		100% CARBONACEOUS MUDSTONE	BLACK, MODERATELY STRONG ROCK, WITH PLANT REMAINS, VERY WIDELY SPACED JOINTS.

TOP OF DALMAYNE E : 200.41 M R.L.

199.88	0.29	100	1	100% COAL, DULL
199.92	0.04	100	1	100% COAL, HEAVY DULL
200.06	0.14	100	1	100% COAL, DULL

DEPTH TO BASE M	THICKNESS M	REC X	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
200.10	0.04	100	1	100% COAL, HEAVY DULL	
200.11	0.01	100	1	100% TONSTEIN	
200.13	0.02	100	1	100% COAL, HEAVY DULL	
200.15	0.02	100	1	100% TONSTEIN	
200.20	0.05	100	1	100% COAL, HEAVY DULL	
200.88	0.68	100	1	100% COAL, DULL	
200.93	0.05	100	1	100% COAL, HEAVY DULL	
201.10	0.17	100	2	100% COAL, DULL	
201.12	0.02	100	2	100% TONSTEIN	
201.14	0.02	100	2	100% COAL, DULL	
201.15	0.01	100	2	100% TONSTEIN	
201.43	0.28	100	2	100% COAL, DULL	
201.49	0.06	100	2	100% COAL, HEAVY DULL	
201.66	0.17	100	2	100% COAL, DULL	
201.68	0.02	100	2	100% COAL, HEAVY DULL	
201.71	0.02	100	2	100% TONSTEIN	
201.72	0.02	100	2	100% COAL, HEAVY DULL	
BASE OF DALMAYNE E : THICKNESS= 2.13 M; SAMPLED THICKNESS= 2.13 M					
202.03	0.31	100		100% MUDSTONE	MODERATELY WEAK ROCK, WITH PLANT REMAINS.
202.07	0.04	100		100% COAL, INTERBANDED DULL AND BRIGHT	
202.08	0.01	100		100% MUDSTONE	CALCITIC, MODERATELY WEAK ROCK.
202.10	0.02	100		100% COAL, INTERBANDED DULL AND BRIGHT	
202.70	0.60	100		100% SANDSTONE, FINE GRAINED	GREY, STRONG ROCK, WITH PLANT REMAINS.
203.38	0.68	100		80% SANDSTONE, MEDIUM GRAINED 20% SILTSTONE	LIGHT GREY. STRONG ROCK, VERY THINLY BEDDED.
203.80	0.42	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, STRONG ROCK, WITH MUD PELLETS.
204.43	0.63	100		100% SANDSTONE	VERY FINE GRAINED, GREY, STRONG ROCK.
204.53	0.10	100		100% COAL, DULL WITH FEW BRIGHT BANDS	
204.61	0.08	100		100% SANDSTONE	MED.-FINE GRAINED, BADLY BROKEN, LIGHT GREY, MODERATELY STRONG ROCK.

DEPTH TO BASE M	THICKNESS M	REC X	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
*** CORE DESCRIPTION ***					
204.89	0.28	100		100% SANDSTONE	VERY FINE GRAINED, BADLY BROKEN, GREY, MODERATELY STRONG ROCK.
205.20	0.31	0		CORE LOSS	
205.44	0.24	100		100% MUDSTONE	BADLY BROKEN, LIGHT GREY, MODERATELY WEAK ROCK.
205.70	0.26	100		100% MUDSTONE	FINE GRAINED SANDSTONE, BANDS, LIGHT GREY, MODERATELY WEAK ROCK.
206.22	0.52	100		100% MUDSTONE	GREY, MODERATELY WEAK ROCK.
206.25	0.03	100		100% MUDSTONE	CALCITIC, LIGHT GREEN, WEAK ROCK.
206.74	0.49	100		50% MUDSTONE 50% CARBONACEOUS MUDSTONE	GREY. BLACK. MODERATELY WEAK ROCK, THICKLY LAMINATED, LAMINATED.
206.91	0.17	100		100% MUDSTONE	GREY, MODERATELY WEAK ROCK.
TOP OF DALMAYNE E2 : 193.09 M R.L.					
206.92	0.01	100		100% COAL, DULL	
206.94	0.02	100		100% MUDSTONE	GREY, MODERATELY WEAK ROCK.
207.02	0.08	100		100% COAL, DULL WITH FEW BRIGHT BANDS	
207.43	0.41	100		100% COAL, HEAVY DULL	
207.53	0.10	100		100% COAL, DULL	
207.61	0.08	100		100% COAL, BRIGHT WITH FEW DULL BANDS	
BASE OF DALMAYNE E2 : THICKNESS= 0.70 M; SAMPLED THICKNESS= 0.00 M					
208.25	0.64	100		100% SANDSTONE	MED.-FINE GRAINED, LIGHT GREY, STRONG ROCK, WITH CARBONACEOUS WISPS, WITH TROUGH CROSS BEDDING.
208.35	0.10	100		100% CARBONACEOUS MUDSTONE	DARK GREY, MODERATELY WEAK ROCK, TIGHT PLANAR, ROUGH DISCONTINUITIES, WITH SLICKENSIDES.
208.66	0.31	100		100% SANDSTONE	VERY FINE GRAINED, GREY, MODERATELY STRONG ROCK, WITH PLANT REMAINS, TIGHT PLANAR, ROUGH DISCONTINUITIES, WITH SLICKENSIDES.
209.35	0.69	100		100% SANDSTONE, FINE GRAINED	MUDSTONE, LENSES, LIGHT GREY, STRONG ROCK.
209.37	0.02	100		100% COAL, BRIGHT	
209.40	0.03	100		100% SANDSTONE, FINE GRAINED	LIGHT GREY, STRONG ROCK.
209.41	0.01	100		100% COAL, BRIGHT	
209.82	0.41	100		100% SANDSTONE	VERY FINE GRAINED, GREY.
210.00	0.18	100		100% SANDSTONE	MED.-FINE GRAINED, LIGHT GREY.

DEPTH TO BASE M	THICKNESS M	REC %	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
212.26	2.26	100		100% SANDSTONE, FINE GRAINED	GREY, STRONG ROCK, WITH PLANT REMAINS.
212.99	0.73	100		50% SANDSTONE 50% SANDSTONE	LIGHT GREY. VERY FINE GRAINED, GREY. STRONG ROCK, THICKLY LAMINATED, LAMINATED.
214.16	1.17	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, STRONG ROCK.
214.70	0.54	100		100% SANDSTONE	VERY FINE GRAINED, GREY, STRONG ROCK, LAMINATED.
TOP OF DALMAYNE E3 : 185.30 M R.L.					
214.78	0.08	100		100% COAL, DULL	
214.79	0.01	100		100% MUDSTONE	BROWN, MODERATELY WEAK ROCK.
214.83	0.04	100		100% COAL, DULL	
BASE OF DALHAYNE E3 : THICKNESS= 0.13 M; SAMPLED THICKNESS= 0.00 M					
214.85	0.02	100		100% CARBONACEOUS MUDSTONE	BLACK, MODERATELY WEAK ROCK.
215.05	0.20	100		100% SANDSTONE, FINE GRAINED	GREY, STRONG ROCK.
215.14	0.09	100		100% SANDSTONE, FINE GRAINED	CARBONACEOUS, BLACK, STRONG ROCK.
215.48	0.34	100		100% CARBONACEOUS MUDSTONE	COALY, LENSES, BLACK, MODERATELY WEAK ROCK.
215.82	0.34	100		100% MUDSTONE	DARK GREY, MODERATELY STRONG ROCK, WITH PLANT REMAINS.
216.16	0.34	100		100% SANDSTONE, FINE GRAINED	DARK GREY, MODERATELY STRONG ROCK.
216.25	0.09	100		100% CARBONACEOUS SHALE	BLACK, MODERATELY STRONG ROCK.
216.42	0.17	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, STRONG ROCK, WITH CARBONACEOUS WISPS.
216.82	0.40	100		100% SANDSTONE	MED.-FINE GRAINED, LIGHT GREY, STRONG ROCK.
217.70	0.88	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, STRONG ROCK.
218.36	0.66	100		100% SANDSTONE	MED.-FINE GRAINED, LIGHT GREY, STRONG ROCK.
219.17	0.81	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, STRONG ROCK.
219.82	0.65	100		100% SANDSTONE, FINE GRAINED	LIGHT GREY, STRONG ROCK, LAMINATED.
219.88	0.06	100		100% CARBONACEOUS SHALE	BLACK, MODERATELY STRONG ROCK.
219.96	0.08	100		100% COAL, DULL	
220.00	0.04	100		100% MUDSTONE	COALY, TRACES, DARK BROWN, MODERATELY STRONG ROCK.
220.01	0.01	100		100% COAL, DULL	
220.59	0.58	100		100% MUDSTONE	FINE GRAINED SANDSTONE, LENSES, DARK GREY, MODERATELY WEAK ROCK.

DEPTH TO BASE M	THICKNESS M	REC %	SAMPLE NUMBER	ROCK TYPE *** CORE DESCRIPTION ***	GEOLOGICAL DESCRIPTION
220.72	0.13	100		100X CARBONACEOUS MUDSTONE	BLACK, MODERATELY WEAK ROCK.
220.83	0.11	100		100X CARBONACEOUS SHALE	BLACK, MODERATELY STRONG ROCK.
220.84	0.01	100		100X COAL, BRIGHT	
221.03	0.19	100		100X CARBONACEOUS SHALE	BLACK, MODERATELY STRONG ROCK.
221.29	0.26	100		100X SANDSTONE, FINE GRAINED	CARBONACEOUS, BANDS, DARK BROWN, MODERATELY STRONG ROCK.
221.60	0.31	100		100X CARBONACEOUS MUDSTONE	BLACK, MODERATELY WEAK ROCK.
222.77	1.17	100		100X SANDSTONE, MEDIUM GRAINED	CARBONACEOUS, LENSES, LIGHT GREY, STRONG ROCK.
224.23	1.46	100		100X SANDSTONE, MEDIUM GRAINED	LIGHT GREY, STRONG ROCK, WITH PLANT REMAINS.
224.58	0.35	100		100X SANDSTONE	MED.-FINE GRAINED, LIGHT GREY, STRONG ROCK.
224.69	0.11	100		100X SANDSTONE, MEDIUM GRAINED	LIGHT GREY, STRONG ROCK.
224.78	0.09	100		100X SANDSTONE	MED.-FINE GRAINED, LIGHT GREY, STRONG ROCK.
224.99	0.21	100		100X SANDSTONE, MEDIUM GRAINED	LIGHT GREY, STRONG ROCK.
227.57	2.58	100		100X SANDSTONE	MED.-FINE GRAINED, LIGHT GREY, STRONG ROCK.
229.76	2.19	100		100X SANDSTONE, MEDIUM GRAINED	LIGHT GREY, STRONG ROCK.
230.38	0.62	100		100X SANDSTONE, MEDIUM GRAINED	COALY, FRAGMENTS, LIGHT GREY, STRONG ROCK.
230.81	0.43	100		100X SANDSTONE, MEDIUM GRAINED	LIGHT GREY, STRONG ROCK, WITH MUD PELLETS.
230.88	0.07	100		100X SANDSTONE, MEDIUM GRAINED	LIGHT GREY, STRONG ROCK.
231.16	0.28	100		100X COAL, HEAVY DULL	WITH PYRITE ON FRACTURES.
231.41	0.25	100		100X CARBONACEOUS MUDSTONE	BLACK, MODERATELY WEAK ROCK.
233.08	1.67	100		100X SANDSTONE, FINE GRAINED	GREY, STRONG ROCK.
249.15	16.07	100		100X SANDSTONE	MED.-FINE GRAINED, LITHIC, LIGHT GREY, STRONG ROCK.
249.55	0.40	100		100X SANDSTONE, MEDIUM GRAINED	COALY, FRAGMENTS, LIGHT GREY, STRONG ROCK.
250.66	1.11	100		100X SANDSTONE, MEDIUM GRAINED	LIGHT GREY, STRONG ROCK.
250.92	0.26	100		100X PEBBLE CONGLOMERATE	LIGHT GREY, STRONG ROCK.
251.71	0.79	100		100X SANDSTONE, MEDIUM GRAINED	GRADING TO, FINE GRAINED, LIGHT GREY, STRONG ROCK.
251.98	0.27	100		100X SANDSTONE, MEDIUM GRAINED	COALY, FRAGMENTS, LIGHT GREY, STRONG ROCK.
252.21	0.23	100		100X SANDSTONE, MEDIUM GRAINED	LIGHT GREY, STRONG ROCK.
252.66	0.45	100		100X SANDSTONE, MEDIUM GRAINED	PEBBLY, LIGHT GREY, STRONG ROCK, WITH CARBONACEOUS WISPS.
252.74	0.08	100		100X CARBONACEOUS MUDSTONE	BLACK, MODERATELY WEAK ROCK.
253.68	0.94	100		100X SANDSTONE	MED.-FINE GRAINED, LIGHT GREY, STRONG ROCK, WITH CARBONACEOUS WISPS.

DEPTH TO BASE M	THICKNESS M	REC %	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
					*** CORE DESCRIPTION ***
253.81	0.13	100		100% COAL, DULL	MUDSTONE, BANDS.
253.92	0.11	100		100% SANDSTONE, FINE GRAINED	COALY, BANDS, GREY, STRONG ROCK.
253.95	0.03	100		100% CARBONACEOUS MUDSTONE	BLACK, MODERATELY WEAK ROCK.
254.31	0.36	100		100% MUDSTONE	DARK GREY, MODERATELY WEAK ROCK, WITH PLANT REMAINS.
254.44	0.13	100		100% SANDSTONE, MEDIUM GRAINED	POORLY SORTED, LIGHT GREY, STRONG ROCK.
255.67	1.23	100		100% SANDSTONE, FINE GRAINED	GREY, STRONG ROCK, WITH DISTURBED BEDDING.
255.99	0.32	100		100% SANDSTONE, MEDIUM GRAINED	CALCITIC, POORLY SORTED, BUFF, STRONG ROCK.
256.07	0.08	100		100% SANDSTONE, FINE GRAINED	LIGHT GREY, STRONG ROCK.
256.12	0.05	100		100% MUDSTONE	DARK BROWN, MODERATELY WEAK ROCK.
256.15	0.03	100		100% COAL, HEAVY DULL	
256.16	0.01	100		100% TONSTEIN	DARK BROWN, MODERATELY WEAK ROCK.
256.24	0.08	100		100% COAL, BRIGHT WITH FEW DULL BANDS	
257.15	0.91	100		85% MUDSTONE 15% SANDSTONE, FINE GRAINED	CARBONACEOUS, LENSES, GREY. LENSES, LIGHT GREY. STRONG ROCK.
257.69	0.54	100		100% SANDSTONE, FINE GRAINED	LIGHT GREY, STRONG ROCK.
257.73	0.04	100		100% MUDSTONE	BROWN, MODERATELY WEAK ROCK.
257.77	0.04	100		100% MUDSTONE	COALY, LENSES, BROWN, MODERATELY WEAK ROCK.
257.89	0.12	100		100% COAL, INTERBANDED DULL AND BRIGHT	
257.94	0.05	100		100% CARBONACEOUS MUDSTONE	DARK GREY, MODERATELY WEAK ROCK.
258.30	0.36	100		100% MUDSTONE	GREY, MODERATELY WEAK ROCK.
258.70	0.40	100		100% SANDSTONE, FINE GRAINED	MUDSTONE, LENSES, LIGHT GREY, MODERATELY STRONG ROCK.
259.56	0.36	100		100% MUDSTONE	FINE GRAINED SANDSTONE, LENSES, LIGHT GREY, MODERATELY WEAK ROCK.
262.86	3.30	100		50% SANDSTONE, FINE GRAINED 50% SANDSTONE	LIGHT GREY. VERY FINE GRAINED, GREY. STRONG ROCK, VERY THINLY BEDDED.
263.03	0.17	100		100% MUDSTONE	CARBONACEOUS, BANDS, GREY, MODERATELY WEAK ROCK.
263.05	0.02	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, STRONG ROCK, THICKLY LAMINATED.
263.08	0.03	100		100% MUDSTONE	GREY, MODERATELY WEAK ROCK.
263.14	0.06	100		100% COAL, BRIGHT WITH FEW DULL BANDS	
263.20	0.06	100		100% SANDSTONE, MEDIUM GRAINED	CARBONACEOUS, GREY, STRONG ROCK.
263.43	0.23	100		100% SANDSTONE, MEDIUM GRAINED	POORLY SORTED, LIGHT GREY, WITH CARBONACEOUS WISPS.

DEPTH TO BASE M	THICKNESS M	REC %	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
263.45	0.02	100		100X COAL, DULL	
263.50	0.05	100		100X MUDSTONE	LIGHT GREY.
263.66	0.16	100		100X SANDSTONE, MEDIUM GRAINED	CALCITIC, WHITE, STRONG ROCK.
263.77	0.11	100		100X CARBONACEOUS MUDSTONE	MUDSTONE, LENSES, BLACK.
264.00	0.23	100		100X SANDSTONE	VERY FINE GRAINED, GREY, STRONG ROCK.
264.16	0.16	100		100X SANDSTONE	MED.-FINE GRAINED, LIGHT GREY, STRONG ROCK.
264.19	0.03	100		100X MUDSTONE	GREY, MODERATELY WEAK ROCK.
264.24	0.05	100		100X CARBONACEOUS MUDSTONE	BLACK, MODERATELY WEAK ROCK.
265.65	1.41	100		100X SANDSTONE, FINE GRAINED	GREY, MODERATELY STRONG ROCK.
266.29	0.64	100		95% SANDSTONE 5% MUDSTONE	MED.-FINE GRAINED, LIGHT GREY. LENSES, GREY. STRONG ROCK.
266.68	0.39	100		100X SANDSTONE, MEDIUM GRAINED	LIGHT GREY, STRONG ROCK.
266.92	0.24	100		100X SANDSTONE, FINE GRAINED	GREY, STRONG ROCK.
266.93	0.01	100		100X CARBONACEOUS MUDSTONE	BLACK, MODERATELY WEAK ROCK.
267.10	0.17	100		100X SANDSTONE, FINE GRAINED	GREY, STRONG ROCK.
267.11	0.01	100		100X COAL, DULL	
267.12	0.01	100		100X SANDSTONE, FINE GRAINED	GREY, STRONG ROCK.
267.13	0.01	100		100X COAL, DULL	
267.15	0.02	100		100X SANDSTONE, FINE GRAINED	GREY, STRONG ROCK.
267.16	0.01	100		100X COAL, DULL	
267.19	0.03	100		100X SANDSTONE, FINE GRAINED	GREY, STRONG ROCK.
267.43	0.24	100		100X SANDSTONE, MEDIUM GRAINED	GREY, STRONG ROCK.
267.50	0.07	100		50% COAL, DULL 50% SANDSTONE, MEDIUM GRAINED	GREY. WITH DISTURBED BEDDING.
267.59	0.09	100		100X COAL, DULL	
267.72	0.13	100		100X SANDSTONE, FINE GRAINED	GREY, STRONG ROCK.
267.84	0.12	100		100X SANDSTONE, MEDIUM GRAINED	GREY, STRONG ROCK.
267.96	0.12	100		100X CARBONACEOUS MUDSTONE	BLACK.
267.97	0.01	100		100X MUDSTONE	WHITE, MODERATELY STRONG ROCK.
268.00	0.03	100		100X COAL, DULL WITH FEW BRIGHT BANDS	
268.01	0.01	100		100X MUDSTONE	BROWN, MODERATELY WEAK ROCK.

DEPTH TO BASE M	THICKNESS M	REC X	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
268.02	0.01	100		100X CARBONACEOUS MUDSTONE	BLACK, MODERATELY WEAK ROCK.
268.04	0.02	100		100X MUDSTONE	BROWN, MODERATELY WEAK ROCK.
268.09	0.05	100		100X CARBONACEOUS MUDSTONE	BLACK.
268.19	0.10	100		100X SANDSTONE, COARSE GRAINED	GRADING TO, FINE GRAINED, GREEN-BROWN, WITH GRANULAR QUARTZ, STRONG ROCK.
269.91	1.72	100		100X SANDSTONE	VERY FINE GRAINED, GREY, WITH GRANULAR QUARTZ, VERY STRONG ROCK.
277.40	7.49	100		100X SILTSTONE	VERY FINE GRAINED, GREY, WITH PEBBLY QUARTZ, VERY STRONG ROCK.