

THE SHELL COMPANY OF AUSTRALIA LTD.

BOREHOLE LITHOLOGICAL DESCRIPTION

GRAY

GY 23

HOLE TYPE	CORE
EASTING	602,100 M AM GRID
NORTHING	5,372,870 M AM GRID
ELEVATION	230.00 M
TOTAL DEPTH DRILLED	361.60 M
DRILLING STARTED	18/ 2/80
DRILLING TIME	
CORE SIZE	
HOLE SIZE	
LENGTH CASSED	
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 C09***

BOREHOLE : GY 23

DEPTH TO BASE M	THICKNESS M	REC X	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
*** CORE DESCRIPTION ***					
138.62	138.62			100% DOLERITE	SCREE.
138.92	0.30			100% SANDSTONE, MEDIUM GRAINED	YELLOW-BROWN, MODERATELY WEATHERED, WEAK ROCK.
139.21	0.29			100% SANDSTONE, MEDIUM GRAINED	YELLOW-GREY, MODERATELY WEATHERED, WEAK ROCK.
139.27	0.06			50% PEBBLE CONGLOMERATE 50% SANDSTONE, COARSE GRAINED	YELLOW-GREY. MODERATELY WEATHERED, WEAK ROCK.
139.46	0.19			75% SANDSTONE, COARSE GRAINED 25% PEBBLE CONGLOMERATE	YELLOW-GREY. MODERATELY WEATHERED, WEAK ROCK.
139.62	0.16			100% CARBONACEOUS MUDSTONE	GREY, MODERATELY WEATHERED, VERY WEAK ROCK, WITH CARBONACEOUS WISPS.
139.83	0.21			100% CARBONACEOUS SHALE	BLACK, WITH PYRITE ON JOINTS AND CALCITE ON JOINTS, SLIGHTLY WEATHERED, MODERATELY STRONG ROCK.
140.01	0.18			100% SHALE	LAMINAE, LIGHT BROWN, SLIGHTLY WEATHERED, VERY WEAK ROCK.
140.17	0.16			100% CARBONACEOUS SHALE	BROWN-BLACK, SLIGHTLY WEATHERED, MODERATELY WEAK ROCK, WITH PLANT REMAINS.
140.23	0.06			100% CARBONACEOUS SHALE	DULL COAL, BLACK, SLIGHTLY WEATHERED, MODERATELY WEAK ROCK.
140.25	0.02			100% SHALE	GREY-BROWN, SLIGHTLY WEATHERED, MODERATELY WEAK ROCK.
140.27	0.02			100% CARBONACEOUS SHALE	DULL COAL, BLACK, SLIGHTLY WEATHERED, MODERATELY WEAK ROCK.
140.29	0.02			100% SHALE	GREY-BROWN, SLIGHTLY WEATHERED, MODERATELY WEAK ROCK.
140.43	0.14			100% CARBONACEOUS SHALE	BLACK, SLIGHTLY WEATHERED, MODERATELY WEAK ROCK.
140.44	0.01			100% SHALE	GREY-BROWN, SLIGHTLY WEATHERED, MODERATELY WEAK ROCK.
140.51	0.07			100% CARBONACEOUS SHALE	BLACK, SLIGHTLY WEATHERED, MODERATELY WEAK ROCK.
140.53	0.02			100% SHALE	GREY-BROWN, SLIGHTLY WEATHERED, MODERATELY WEAK ROCK.
140.56	0.03			100% CARBONACEOUS SHALE	BLACK, SLIGHTLY WEATHERED, MODERATELY WEAK ROCK.
140.57	0.01			100% SHALE	GREY-BROWN, SLIGHTLY WEATHERED, MODERATELY WEAK ROCK.
140.62	0.05			100% CARBONACEOUS SHALE	BLACK, SLIGHTLY WEATHERED, MODERATELY WEAK ROCK.
140.73	0.11			100% SHALE	GREY-BROWN, SLIGHTLY WEATHERED, MODERATELY WEAK ROCK, WITH PLANT REMAINS.
140.75	0.02			100% CARBONACEOUS SHALE	DULL COAL, BLACK, SLIGHTLY WEATHERED, MODERATELY WEAK ROCK.

DEPTH TO BASE M	THICKNESS M	REC X	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
*** CORE DESCRIPTION ***					
140.81	0.06			100% SHALE	GREY-BROWN, SLIGHTLY WEATHERED, MODERATELY WEAK ROCK.
140.85	0.04			100% CARBONACEOUS SHALE	BRIGHT COAL, BANDS, BLACK, SLIGHTLY WEATHERED, MODERATELY WEAK ROCK.
140.90	0.05			100% SHALE	GREY-BROWN, SLIGHTLY WEATHERED, MODERATELY WEAK ROCK, WITH CARBONACEOUS WISPS.
140.95	0.05			100% CARBONACEOUS SHALE	DULL COAL, BLACK, SLIGHTLY WEATHERED, MODERATELY WEAK ROCK.
140.97	0.02			100% SHALE	GREY-BROWN, MODERATELY WEATHERED, WEAK ROCK, WITH PLANT REMAINS.
141.96	0.99			100% MUDSTONE	GREY, UNWEATHERED, MODERATELY STRONG ROCK, WITH CARBONACEOUS WISPS.
142.17	0.21			100% COAL, DULL WITH FEW BRIGHT BANDS	BLACK, UNWEATHERED, MODERATELY STRONG ROCK.
143.17	1.00			100% CARBONACEOUS SHALE	BLACK, UNWEATHERED, MODERATELY STRONG ROCK.
144.29	1.12			100% MUDSTONE	GREY, UNWEATHERED, MODERATELY STRONG ROCK, WITH CARBONACEOUS WISPS.
144.83	0.54			100% SANDSTONE, FINE-GRAINED	LIMONITIC, LIGHT GREY, STRONG ROCK.
145.26	0.43			100% MUDSTONE	COALY, TRACES, DARK GREY, MODERATELY STRONG ROCK, VERY CLOSE JOINT SPACING, WITH SLICKENSIDES, JOINTS DIP 45 DEG.
145.59	0.33			100% SANDSTONE, FINE GRAINED	GREEN-BROWN, MODERATELY WEAK ROCK, LAMINATED, VERY CLOSE JOINT SPACING, WITH SLICKENSIDES, JOINTS DIP 45 DEG.
146.24	0.65			50% SANDSTONE 50% SANDSTONE, FINE GRAINED	MED.-FINE GRAINED, LIGHT GREY. GREY. MODERATELY STRONG ROCK, WITH DISTURBED BEDDING.
146.42	0.18	100		100% MUDSTONE	FINE GRAINED SANDSTONE, BANDS, LIGHT GREY, MODERATELY WEAK ROCK.
148.23	1.81	100		75% SANDSTONE, FINE GRAINED 25% SANDSTONE	GREY. MED.-FINE GRAINED, INTERCALATIONS, LIGHT GREY. MODERATELY STRONG ROCK.
149.63	1.40	100		100% SANDSTONE, MEDIUM GRAINED	CREAM, MODERATELY STRONG ROCK.
150.03	0.40	100		90% SANDSTONE, FINE GRAINED 10% SANDSTONE	LAMINAE, DARK GREY. MED.-FINE GRAINED, LIGHT GREY. MODERATELY STRONG ROCK.
151.90	1.87	100		100% SANDSTONE	MED.-COARSE GRAINED, CREAM, MODERATELY STRONG ROCK.
151.94	0.04	100		100% SANDSTONE, FINE GRAINED	COALY, PARTINGS, DARK GREY, MODERATELY STRONG ROCK.
153.45	1.51	100		100% SANDSTONE, COARSE GRAINED	LIGHT GREY, MODERATELY STRONG ROCK, THICKLY LAMINATED.
153.54	0.09	100		100% SANDSTONE	MED.-FINE GRAINED, GREY, MODERATELY STRONG ROCK.
153.76	0.22	100		100% SANDSTONE, FINE GRAINED	LAMINAE, DARK GREY, MODERATELY STRONG ROCK.

DEPTH TO BASE M	THICKNESS M	REC X	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
*** CORE DESCRIPTION ***					
154.06	0.30	100		100% SANDSTONE	MED.-FINE GRAINED, LIGHT GREY, MODERATELY STRONG ROCK.
154.46	0.40	100		100% SANDSTONE, FINE GRAINED	LAMINAE, DARK GREY, MODERATELY STRONG ROCK.
154.77	0.31	100		70% SANDSTONE 30% SANDSTONE, FINE GRAINED	MED.-FINE GRAINED, LIGHT GREY. LAMINAE, DARK GREY. MODERATELY STRONG ROCK.
154.92	0.15	100		100% SANDSTONE, FINE GRAINED	LAMINAE, DARK GREY, MODERATELY STRONG ROCK.
155.27	0.35	100		70% SANDSTONE 30% SANDSTONE, FINE GRAINED	MED.-FINE GRAINED, LIGHT GREY. LAMINAE, DARK GREY. MODERATELY STRONG ROCK.
155.46	0.19	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, MODERATELY STRONG ROCK.
155.65	0.19	100		50% SANDSTONE 50% SANDSTONE, FINE GRAINED	MED.-FINE GRAINED, LIGHT GREY. LAMINAE, DARK GREY. MODERATELY STRONG ROCK.
156.59	0.94	100		100% PEBBLE CONGLOMERATE	COALY, LENSES, LIGHT GREY, MODERATELY STRONG ROCK, WITH POOR SORTING.
156.61	0.02	100		100% SANDSTONE, FINE GRAINED	CARBONACEOUS, DARK GREY, MODERATELY STRONG ROCK.
157.05	0.44	100		100% CARBONACEOUS MUDSTONE	BLACK, MODERATELY WEAK ROCK.
157.10	0.05	100		100% COAL, DULL	
157.13	0.03	100		100% COAL, DULL WITH FEW BRIGHT BANDS	
157.21	0.06	100		100% COAL, DULL WITH NUMEROUS BRIGHT BANDS	
157.22	0.01	100		100% MUDSTONE	COALY, PARTINGS, BROWN, MODERATELY WEAK ROCK.
157.24	0.02	100		100% COAL, DULL WITH NUMEROUS BRIGHT BANDS	
158.30	1.06	100		100% MUDSTONE	LIGHT GREY, MODERATELY WEAK ROCK.
159.70	1.40	100		100% MUDSTONE	LABILE, BANDS, CREAM, MODERATELY WEAK ROCK.
159.72	0.02	100		100% CLAY	LIGHT GREEN, STIFF.
160.04	0.32	100		100% CARBONACEOUS MUDSTONE	BLACK, WEAK ROCK.
160.64	0.60	100		100% MUDSTONE	GREY, MODERATELY WEAK ROCK, VERY CLOSE JOINT SPACING, WITH SLICKENSIDES, JOINTS DIP 50 DEG.
161.34	0.70	100		100% MUDSTONE	LIGHT GREEN, MODERATELY WEAK ROCK.
161.42	0.08	100		100% COAL, DULL	
161.55	0.13	100		100% COAL, DULL WITH FEW BRIGHT BANDS	
161.65	0.10	100		100% CARBONACEOUS MUDSTONE	BLACK, MODERATELY WEAK ROCK.
161.79	0.14	100		100% MUDSTONE	DARK GREY, MODERATELY WEAK ROCK.
162.18	0.39	100		70% MUDSTONE 30% SANDSTONE, FINE GRAINED	DARK GREY. LAMINAE, LIGHT GREY. MODERATELY WEAK ROCK.

DEPTH TO BASE M	THICKNESS M	REC %	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
*** CORE DESCRIPTION ***					
164.98	2.80	100		100% MUDSTONE	GREY, MODERATELY WEAK ROCK.
166.00	1.02	100		70% MUDSTONE 30% SANDSTONE, FINE GRAINED	DARK GREY. LAMINAE, LIGHT GREY. MODERATELY WEAK ROCK.
167.55	1.55	100		100% SANDSTONE, MEDIUM GRAINED	COALY, PARTINGS, LIGHT GREY, MODERATELY STRONG ROCK.
167.75	0.20	100		100% SANDSTONE, MEDIUM GRAINED	PEBBLY, LIGHT GREY, MODERATELY STRONG ROCK.
169.05	1.30	100		100% SANDSTONE, MEDIUM GRAINED	COALY, PARTINGS, LIGHT GREY, MODERATELY STRONG ROCK.
175.64	6.59	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, MODERATELY STRONG ROCK.
175.96	0.32	100		100% SANDSTONE, MEDIUM GRAINED	PEBBLY, LIGHT GREY, MODERATELY STRONG ROCK.
182.50	6.54	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, MODERATELY STRONG ROCK.
183.06	0.56	100		70% SANDSTONE, FINE GRAINED 30% SANDSTONE, FINE GRAINED	DARK GREY. LAMINAE, LIGHT GREY. MODERATELY STRONG ROCK, THICKLY LAMINATED.
183.29	0.23	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, MODERATELY STRONG ROCK.
183.85	0.56	100		100% SANDSTONE	NON-CLEATED, PEBBLY, LIGHT GREY, MODERATELY STRONG ROCK.
184.34	0.49	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, MODERATELY STRONG ROCK.
184.41	0.07	100		100% SANDSTONE, MEDIUM GRAINED	PEBBLY, LIGHT GREY, MODERATELY STRONG ROCK.
184.90	0.49	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, MODERATELY STRONG ROCK.
185.00	0.10	100		100% SANDSTONE, MEDIUM GRAINED	COALY, BANDS, LIGHT GREY, MODERATELY STRONG ROCK.
186.35	1.35	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, MODERATELY STRONG ROCK.
189.90	3.55	100		100% SANDSTONE	MED.-COARSE GRAINED, LIGHT GREY, MODERATELY STRONG ROCK.
189.98	0.08	100		100% COAL, DULL WITH FEW BRIGHT BANDS	
190.02	0.04	100		100% COAL, INTERBANDED DULL AND BRIGHT	
190.04	0.02	100		100% MUDSTONE	BROWN, MODERATELY WEAK ROCK.
190.12	0.08	100		100% CARBONACEOUS MUDSTONE	BLACK.
190.17	0.05	100		100% MUDSTONE	BROWN, MODERATELY WEAK ROCK.
190.19	0.02	100		100% CARBONACEOUS MUDSTONE	BLACK, MODERATELY WEAK ROCK.
190.21	0.02	100		100% COAL, DULL WITH FEW BRIGHT BANDS	
190.23	0.02	100		100% COAL, DULL	
190.35	0.12	100		100% COAL, DULL WITH FEW BRIGHT BANDS	
190.41	0.06	100		100% COAL, DULL	

DEPTH TO BASE M	THICKNESS M	REC X	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
190.49	0.08	100		100% COAL, INTERBANDED DULL AND BRIGHT	
190.64	0.15	100		100% COAL, DULL	
190.79	0.15	100		100% COAL, DULL WITH FEW BRIGHT BANDS	
190.84	0.05	100		100% COAL, BRIGHT	FRAGMENTED, TIGHT PLANAR, ROUGH DISCONTINUITIES, WITH SLICKENSIDES.
193.19	2.35	100		100% MUDSTONE	GREY, MODERATELY WEAK ROCK.
193.58	0.39	100		50% SANDSTONE, FINE GRAINED 50% SANDSTONE, FINE GRAINED	COALY, BANDS, LIGHT GREY. LAMINAE, GREY. MODERATELY STRONG ROCK.
194.00	0.42	100		100% CARBONACEOUS MUDSTONE	BLACK, MODERATELY WEAK ROCK.
194.09	0.09	100		100% COAL, DULL	
194.11	0.02	100		100% MUDSTONE	BROWN, UNWEATHERED, MODERATELY WEAK ROCK.
194.12	0.01	100		100% COAL, DULL	UNWEATHERED.
194.35	0.23	100		50% CARBONACEOUS MUDSTONE 50% MUDSTONE	BLACK. BROWN. UNWEATHERED, MODERATELY WEAK ROCK.
194.41	0.06	100		100% COAL, DULL	UNWEATHERED.
194.43	0.02	100		100% MUDSTONE	BROWN, UNWEATHERED, MODERATELY WEAK ROCK.
194.44	0.01	100		100% COAL, DULL	UNWEATHERED.
194.50	0.06	100		100% MUDSTONE	BROWN, UNWEATHERED, MODERATELY WEAK ROCK.
194.52	0.02	100		100% COAL, DULL	UNWEATHERED.
194.54	0.02	100		100% MUDSTONE	BROWN, UNWEATHERED, MODERATELY WEAK ROCK.
194.58	0.04	100		100% COAL, DULL	UNWEATHERED.
194.60	0.02	100		100% MUDSTONE	BROWN, UNWEATHERED, MODERATELY WEAK ROCK.
194.78	0.18	100		100% COAL, DULL	UNWEATHERED.
194.86	0.08	100		100% MUDSTONE	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
194.97	0.11	100		100% MUDSTONE	GREY, UNWEATHERED, MODERATELY WEAK ROCK.
195.15	0.18	100		100% COAL, DULL WITH FEW BRIGHT BANDS	UNWEATHERED.
195.19	0.04	100		100% CARBONACEOUS MUDSTONE	BROWN, UNWEATHERED, MODERATELY WEAK ROCK.
195.29	0.10	100		100% COAL, DULL WITH FEW BRIGHT BANDS	UNWEATHERED.
195.32	0.03	100		100% MUDSTONE	BROWN, UNWEATHERED, MODERATELY WEAK ROCK.
195.38	0.06	100		100% COAL, DULL	UNWEATHERED.
195.53	0.15	100		100% MUDSTONE	CREAM, UNWEATHERED, MODERATELY WEAK ROCK.
195.61	0.08	100		100% COAL, DULL	UNWEATHERED.

DEPTH TO BASE M	THICKNESS N	REC %	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
					*** CORE DESCRIPTION ***
195.63	0.02	100		100% CARBONACEOUS MUDSTONE	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
195.65	0.02	100		100% COAL, DULL	UNWEATHERED.
195.68	0.03	100		100% SILTSTONE	BROWN, UNWEATHERED, MODERATELY WEAK ROCK.
195.76	0.08	100		100% COAL, DULL WITH NUMEROUS BRIGHT BANDS	UNWEATHERED.
195.78	0.02	100		100% MUDSTONE	CARBONACEOUS, STREAKS, BROWN, UNWEATHERED, MODERATELY WEAK ROCK.
195.86	0.08	100		100% COAL, DULL WITH NUMEROUS BRIGHT BANDS	UNWEATHERED.
195.88	0.02	100		100% CARBONACEOUS MUDSTONE	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
199.62	3.80	100		50% SANDSTONE, FINE GRAINED 50% SILTSTONE	LIGHT GREY. LAMINAE, GREY. UNWEATHERED, MODERATELY WEAK ROCK.
199.72	0.04	100		100% MUDSTONE	LIMONITIC, DARK GREY, UNWEATHERED, MODERATELY WEAK ROCK, WITH MUD PELLETS, WITH POOR SORTING.
199.83	0.11	100		100% MUDSTONE	CREAM, UNWEATHERED, MODERATELY WEAK ROCK.
200.30	0.47	100		100% CARBONACEOUS MUDSTONE	UNWEATHERED, MODERATELY WEAK ROCK.
201.46	1.16	100		50% MUDSTONE 40% SANDSTONE, FINE GRAINED	GREY. LIGHT GREY. UNWEATHERED, MODERATELY STRONG ROCK.
201.78	0.32	100		100% SILTSTONE	GREY, UNWEATHERED, MODERATELY WEAK ROCK.
201.81	0.03	100		100% CLAY	CREAM, UNWEATHERED, STIFF.
204.14	2.33	100		100% MUDSTONE	GREY, UNWEATHERED, MODERATELY WEAK ROCK.
204.92	0.78	100		60% SILTSTONE 40% SANDSTONE	GREY. MED.-FINE GRAINED, LIGHT GREY. UNWEATHERED, MODERATELY WEAK ROCK.
205.77	0.85	100		100% MUDSTONE	GREY, UNWEATHERED, MODERATELY WEAK ROCK.
209.94	4.17	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, MODERATELY STRONG ROCK.
210.03	0.09	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, MODERATELY STRONG ROCK, WITH MUD PELLETS, WITH DISTURBED BEDDING.
210.07	0.04	100		100% MUDSTONE	CARBONACEOUS, BANDS, BROWN, UNWEATHERED, MODERATELY WEAK ROCK.
210.68	0.61	100		100% MUDSTONE	GREY, UNWEATHERED, MODERATELY WEAK ROCK.
212.09	1.41	100		100% SANDSTONE	MED.-FINE GRAINED, LIGHT GREY, UNWEATHERED, MODERATELY STRONG ROCK, WITH TROUGH CROSS BEDDING.
212.73	0.64	100		100% MUDSTONE	COALY, STREAKS, GREY, UNWEATHERED, MODERATELY WEAK ROCK.
212.89	0.16	100		100% CARBONACEOUS MUDSTONE	SILTSTONE, BANDS, BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
213.62	0.73	0		CORE LOSS	

DEPTH TO BASE M	THICKNESS M	REC %	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION *** CORE DESCRIPTION ***
214.04	0.42	100		100% MUDSTONE	GREY, UNWEATHERED, MODERATELY WEAK ROCK.
214.08	0.04	100		100% CARBONACEOUS MUDSTONE	COALY, BANDS, BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
214.33	0.25	100		100% SILTSTONE	GREY, UNWEATHERED, MODERATELY STRONG ROCK.
214.46	0.13	100		100% CARBONACEOUS MUDSTONE	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
214.54	0.08	100		100% MUDSTONE	BROWN, UNWEATHERED, MODERATELY WEAK ROCK.
214.60	0.06	100		100% SILTSTONE	GREY, UNWEATHERED, MODERATELY WEAK ROCK.
214.63	0.03	100		100% MUDSTONE	BROWN, UNWEATHERED, WEAK ROCK.
214.69	0.06	100		100% CARBONACEOUS MUDSTONE	BLACK, UNWEATHERED, MODERATELY STRONG ROCK.
214.76	0.07	100		100% MUDSTONE	BROWN, UNWEATHERED, WEAK ROCK.
215.55	0.79	100		100% CARBONACEOUS MUDSTONE	COALY, LENSES, BLACK, UNWEATHERED, WEAK ROCK.
215.64	0.09	100		100% MUDSTONE	BROWN, UNWEATHERED, MODERATELY WEAK ROCK.
215.87	0.23	100		100% CARBONACEOUS MUDSTONE	COALY, BANDS, BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
215.89	0.02	100		100% SILTSTONE	BROWN, UNWEATHERED, MODERATELY STRONG ROCK.
216.33	0.44	100		100% CARBONACEOUS MUDSTONE	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
216.35	0.02	100		100% MUDSTONE	BROWN, UNWEATHERED, WEAK ROCK.
216.46	0.11	100		100% CARBONACEOUS MUDSTONE	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
216.47	0.01	100		100% MUDSTONE	BROWN, UNWEATHERED, WEAK ROCK.
216.61	0.14	100		100% CARBONACEOUS MUDSTONE	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
216.94	0.33	100		100% CARBONACEOUS MUDSTONE	SANDSTONE, BANDS, BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
217.60	0.66	100		100% CARBONACEOUS MUDSTONE	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
217.99	0.39	100		70% SANDSTONE, COARSE GRAINED 30% CARBONACEOUS MUDSTONE	CARBONACEOUS, LENSES, LIGHT GREY. ARENACEOUS, BLACK. UNWEATHERED, MODERATELY STRONG ROCK, WITH POOR SORTING.
218.34	0.35	100		100% MUDSTONE	BROWN, UNWEATHERED, MODERATELY STRONG ROCK.
219.07	0.73	100		100% CARBONACEOUS MUDSTONE	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
219.16	0.09	100		100% MUDSTONE	CREAM, UNWEATHERED, WEAK ROCK.
219.71	0.55	100		100% CARBONACEOUS MUDSTONE	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
220.93	1.22	100		100% SILTSTONE	GREY, UNWEATHERED, MODERATELY WEAK ROCK, THICKLY LAMINATED.
222.60	1.67	100		100% SANDSTONE	MED.-FINE GRAINED, LIGHT GREY, UNWEATHERED, MODERATELY STRONG ROCK.

DEPTH TO BASE M	THICKNESS M	REC %	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
*** CORE DESCRIPTION ***					
223.35	0.75	100		100% MUDSTONE	GREY, UNWEATHERED, MODERATELY WEAK ROCK.
223.73	0.38	100		100% CARBONACEOUS MUDSTONE	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
223.84	0.11	100		100% SILTSTONE	LIGHT BROWN, UNWEATHERED, MODERATELY WEAK ROCK.
224.02	0.18	100		100% MUDSTONE	CREAM, UNWEATHERED, WEAK ROCK.
224.19	0.17	100		100% CARBONACEOUS MUDSTONE	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
224.22	0.03	100		100% MUDSTONE	CREAM, UNWEATHERED, WEAK ROCK.
224.36	0.14	100		100% COAL, DULL	
224.37	0.01	100		100% MUDSTONE	DARK BROWN, UNWEATHERED, MODERATELY WEAK ROCK.
224.51	0.14	100		100% COAL, DULL WITH FEW BRIGHT BANDS	
224.58	0.07	100		100% COAL, DULL WITH NUMEROUS BRIGHT BANDS	
224.59	0.01	100		100% SILTSTONE	BROWN, UNWEATHERED, MODERATELY WEAK ROCK.
224.61	0.02	100		100% COAL, DULL	
224.65	0.04	100		100% CARBONACEOUS MUDSTONE	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
224.75	0.10	100		100% COAL, DULL WITH NUMEROUS BRIGHT BANDS	
224.80	0.05	100		100% COAL, DULL	
225.08	0.28	100		100% COAL, DULL WITH FEW BRIGHT BANDS	
225.09	0.01	100		100% SILTSTONE	BROWN, UNWEATHERED, MODERATELY WEAK ROCK.
225.10	0.01	100		100% COAL, DULL	
225.14	0.04	100		100% SILTSTONE	BROWN, UNWEATHERED, MODERATELY WEAK ROCK.
225.19	0.05	100		100% COAL, DULL WITH FEW BRIGHT BANDS	
225.21	0.02	100		100% SILTSTONE	BROWN, UNWEATHERED, MODERATELY WEAK ROCK.
225.31	0.10	100		100% COAL, DULL	
225.37	0.06	100		100% CARBONACEOUS MUDSTONE	UNWEATHERED, MODERATELY WEAK ROCK.
225.41	0.04	100		100% COAL, DULL	
225.42	0.01	100		100% MUDSTONE	BROWN, UNWEATHERED, MODERATELY WEAK ROCK.
225.69	0.27	100		100% COAL, DULL	
226.60	0.91	100		100% MUDSTONE	GREY, UNWEATHERED, MODERATELY WEAK ROCK.
226.97	0.37	100		100% SANDSTONE, FINE GRAINED	LAMINAE, GREY, UNWEATHERED, MODERATELY STRONG ROCK.
229.41	2.44	100		100% SANDSTONE, MEDIUM GRAINED	GREY, UNWEATHERED, MODERATELY STRONG ROCK.
229.64	0.23	100		100% SANDSTONE, FINE GRAINED	LAMINAE, DARK GREY, UNWEATHERED, MODERATELY STRONG ROCK.
232.85	3.21	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, MODERATELY STRONG ROCK.

DEPTH TO BASE M	THICKNESS M	REC X	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION *** CORE DESCRIPTION ***
233.04	0.19	100		100% SANDSTONE, MEDIUM GRAINED	COALY, STREAKS, LIGHT GREY, UNWEATHERED, MODERATELY STRONG ROCK.
235.79	2.75	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, MODERATELY STRONG ROCK.
235.86	0.07	100		100% SANDSTONE, MEDIUM GRAINED	COALY, STREAKS, LIGHT GREY, UNWEATHERED, MODERATELY STRONG ROCK.
236.02	0.16	100		100% SANDSTONE, FINE GRAINED	LAMINAE, GREY, UNWEATHERED, MODERATELY STRONG ROCK.
236.28	0.26	100		100% SANDSTONE, MEDIUM GRAINED	COALY, STREAKS, LIGHT GREY, UNWEATHERED, MODERATELY STRONG ROCK.
236.33	0.05	100		100% MUDSTONE	GREY, UNWEATHERED, MODERATELY WEAK ROCK, EXTREMELY CLOSELY SPACED JOINTS, TIGHT PLANAR, ROUGH DISCONTINUITIES, WITH SLICKENSIDES.
236.45	0.12	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, MODERATELY STRONG ROCK.
237.21	0.76	100		50% SANDSTONE, FINE GRAINED 50% SANDSTONE, MEDIUM GRAINED	DARK GREY. LAMINAE, LIGHT GREY. UNWEATHERED, MODERATELY STRONG ROCK, WITH CONVOLUTED BEDDING.
237.73	0.52	100		100% SANDSTONE, MEDIUM GRAINED	COALY, BANDS, LIGHT GREY, UNWEATHERED, MODERATELY STRONG ROCK, BEDS DIP 50 DEG.
237.78	0.05	100		100% SANDSTONE, FINE GRAINED	GREY, UNWEATHERED, MODERATELY STRONG ROCK.
238.72	0.94	100		100% SANDSTONE	MED.-FINE GRAINED, LIGHT GREY, UNWEATHERED, MODERATELY STRONG ROCK.
238.77	0.05	100		100% CARBONACEOUS MUDSTONE	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
240.19	1.42	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, MODERATELY STRONG ROCK.
240.33	0.14	100		100% SILTSTONE	COALY, TRACES, GREY, UNWEATHERED, MODERATELY WEAK ROCK.
240.45	0.12	100		100% SANDSTONE, MEDIUM GRAINED	PEBBLY, POORLY SORTED, LIGHT GREY, UNWEATHERED, MODERATELY STRONG ROCK.
240.64	0.19	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, MODERATELY STRONG ROCK.
240.77	0.13	100		100% MUDSTONE	GREY, UNWEATHERED, MODERATELY WEAK ROCK.
240.82	0.05	100		100% COAL, CULL	
241.72	0.90	100		100% MUDSTONE	GREY, UNWEATHERED, MODERATELY WEAK ROCK.
243.60	1.88	100		100% SANDSTONE, MEDIUM GRAINED	GREY, UNWEATHERED, VERY STRONG ROCK, WITH CARBONACEOUS WISPS.
243.76	0.16	100		75% SANDSTONE, FINE GRAINED 25% MUDSTONE	GREY. PARTINGS, BLACK. UNWEATHERED, STRONG ROCK.
244.71	0.95	100		90% SANDSTONE, MEDIUM GRAINED 10% CARBONACEOUS MUDSTONE	GREY. RADIOACTIVE, BLACK. UNWEATHERED, VERY STRONG ROCK.

DEPTH TO BASE M	THICKNESS M	REC %	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
*** CORE DESCRIPTION ***					
244.83	0.12	100		60% SANDSTONE, FINE GRAINED 40% SANDSTONE, FINE GRAINED	CARBONACEOUS, LAMINAE, BLACK. LAMINAE, GREY. UNWEATHERED, STRONG ROCK.
245.54	0.71	100		60% SANDSTONE, FINE GRAINED 40% SANDSTONE, FINE GRAINED	CARBONACEOUS, BLACK. LAMINAE, GREY. UNWEATHERED, STRONG ROCK, WITH CARBONACEOUS WISPS.
246.28	0.74	100		80% CARBONACEOUS SHALE 20% SANDSTONE, FINE GRAINED	BLACK. LAMINAE, LIGHT GREY. UNWEATHERED, STRONG ROCK.
246.95	0.67	100		75% SANDSTONE, FINE GRAINED 25% CARBONACEOUS SHALE	COALY, LENSES, LIGHT GREY. COALY, LENSES, BLACK. UNWEATHERED, STRONG ROCK.
247.03	0.08	100		100% COAL, DULL WITH FEW BRIGHT BANDS	
247.14	0.11	100		100% CARBONACEOUS SHALE	BRIGHT COAL, BANDS, BLACK, UNWEATHERED, STRONG ROCK.
247.29	0.15	100		100% MUDSTONE	BRIGHT COAL, BANDS, YELLOW-BROWN, UNWEATHERED, WEAK ROCK.
247.51	0.22	100		100% COAL, DULL	
247.71	0.20	100		100% COAL, DULL WITH FEW BRIGHT BANDS	
248.48	0.77	100		100% CARBONACEOUS SHALE	BRIGHT COAL, BANDS, BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
248.50	0.02	100		100% MUDSTONE	LAMINAE, GREY, UNWEATHERED, MODERATELY STRONG ROCK.
248.79	0.29	100		50% CARBONACEOUS MUDSTONE 50% CARBONACEOUS SHALE	LAMINAE, BLACK. LAMINAE, BLACK. UNWEATHERED, MODERATELY STRONG ROCK.
254.87	6.08	100		100% MUDSTONE	SANDSTONE, LENSES, GREY, UNWEATHERED, MODERATELY STRONG ROCK, WITH PLANT REMAINS, VERY WIDELY SPACED JOINTS.
255.30	0.43	100		100% SANDSTONE, FINE GRAINED	GREY, UNWEATHERED, VERY STRONG ROCK, WITH PLANT REMAINS, WITH MUD PELLETS.
255.39	0.09	100		100% SANDSTONE, MEDIUM GRAINED	GREY, UNWEATHERED, STRONG ROCK.
255.57	0.18	100		100% SANDSTONE, MEDIUM GRAINED	GREY, UNWEATHERED, STRONG ROCK, WITH MUD PELLETS.
257.57	2.00	100		100% SANDSTONE, MEDIUM GRAINED	SILTY, STREAKS, GREY, UNWEATHERED, STRONG ROCK, WITH CARBONACEOUS WISPS.
257.68	0.11	100		100% SANDSTONE, MEDIUM GRAINED	GREY, UNWEATHERED, STRONG ROCK, WITH CARBONACEOUS WISPS.
258.27	0.59	100		100% SANDSTONE, MEDIUM GRAINED	GREY, UNWEATHERED, STRONG ROCK.
258.34	0.07	100		100% SANDSTONE, MEDIUM GRAINED	GREY, UNWEATHERED, STRONG ROCK, WITH CARBONACEOUS WISPS.
260.45	2.11	100		100% SANDSTONE, FINE GRAINED	GREY, UNWEATHERED, STRONG ROCK, WITH CARBONACEOUS WISPS.

DEPTH TO BASE M	THICKNESS M	REC X	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
*** CORE DESCRIPTION ***					
260.54	0.09	100		100% SANDSTONE, COARSE GRAINED	COALY, FRAGMENTS, GREY, UNWEATHERED, VERY STRONG ROCK.
261.13	0.59	100		100% SANDSTONE, MEDIUM GRAINED	GREY, UNWEATHERED, VERY STRONG ROCK, WITH CARBONACEOUS WISPS.
261.46	0.33	100		100% SANDSTONE, MEDIUM GRAINED	COALY, FRAGMENTS, GREY, UNWEATHERED, VERY STRONG ROCK, WITH CARBONACEOUS WISPS.
261.48	0.02	100		100% SANDSTONE, COARSE GRAINED	GREY, UNWEATHERED, VERY STRONG ROCK.
262.39	0.91	100		100% SANDSTONE, MEDIUM GRAINED	GREY, UNWEATHERED, VERY STRONG ROCK.
262.58	0.19	100		100% SANDSTONE, MEDIUM GRAINED	COALY, BANDS, GREY, UNWEATHERED, VERY STRONG ROCK, WITH CARBONACEOUS WISPS.
262.61	0.03	100		50% PEBBLE CONGLOMERATE 50% SANDSTONE, COARSE GRAINED	GREY. GREY. UNWEATHERED, VERY STRONG ROCK.
262.79	0.18	100		100% SANDSTONE	MED.-FINE GRAINED, GREY, UNWEATHERED, VERY STRONG ROCK.
262.88	0.09	100		100% SANDSTONE, MEDIUM GRAINED	COALY, FRAGMENTS, GREY, UNWEATHERED, VERY STRONG ROCK, WITH CARBONACEOUS WISPS.
263.29	0.41	100		100% SANDSTONE, MEDIUM GRAINED	GREY, UNWEATHERED, VERY STRONG ROCK.
263.36	0.07	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, HIGHLY WEATHERED, MODERATELY WEAK ROCK, VERY WIDELY SPACED JOINTS.
264.48	1.12	100		100% SANDSTONE, COARSE GRAINED	COALY, FRAGMENTS, GREY, UNWEATHERED, VERY STRONG ROCK.
265.27	0.79	100		100% SANDSTONE, MEDIUM GRAINED	COALY, FRAGMENTS, GREY, UNWEATHERED, VERY STRONG ROCK, WITH CARBONACEOUS WISPS.
266.52	1.25	100		75% SANDSTONE, MEDIUM GRAINED 15% SILT 10% SANDSTONE, FINE GRAINED	GREY. GREY. GREY. UNWEATHERED, VERY STRONG ROCK.
266.54	0.02	100		100% COAL, DULL WITH NUMEROUS BRIGHT BANDS	
266.88	0.34	100		75% SANDSTONE, MEDIUM GRAINED 25% SANDSTONE, COARSE GRAINED	COALY, FRAGMENTS. GREY. UNWEATHERED, WITH MUD PELLETS.
266.92	0.04	100		100% COAL, BRIGHT	MUDSTONE, LAMINAE.
266.98	0.06	100		100% MUDSTONE	GREY, UNWEATHERED, MODERATELY STRONG ROCK.
267.43	0.45	100		75% SANDSTONE, MEDIUM GRAINED 25% SANDSTONE, COARSE GRAINED	COALY, FRAGMENTS, GREY. SILTY, LAMINAE, GREY. UNWEATHERED, VERY STRONG ROCK, WITH MUD PELLETS, WITH CARBONACEOUS WISPS.
267.54	0.11	100		100% SANDSTONE, FINE GRAINED	PEBBLY, GREY, UNWEATHERED, VERY STRONG ROCK.
267.62	0.08	100		100% SANDSTONE, MEDIUM GRAINED	GREY, UNWEATHERED, VERY STRONG ROCK.

DEPTH TO BASE M	THICKNESS M	REC %	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
*** CORE DESCRIPTION ***					
267.75	0.13	100		60X SANDSTONE, FINE GRAINED 40X SANDSTONE, MEDIUM GRAINED	GREY. UNWEATHERED, VERY STRONG ROCK, WITH MUD PELLETS.
269.44	1.69	100		100X SANDSTONE	MED.-COARSE GRAINED, GREY, UNWEATHERED, VERY STRONG ROCK, WITH CARBONACEOUS WISPS.
270.01	0.57	100		100X SANDSTONE, COARSE GRAINED	COALY, FRAGMENTS, GREY, UNWEATHERED, VERY STRONG ROCK, WITH CARBONACEOUS WISPS.
271.60	1.59	100		100X SANDSTONE, MEDIUM GRAINED	GREY, UNWEATHERED, VERY STRONG ROCK.
277.62	6.02	100		100X SANDSTONE	MED.-COARSE GRAINED, GREY, UNWEATHERED, VERY STRONG ROCK, WITH CARBONACEOUS WISPS.
278.05	0.43	100		100X SANDSTONE, MEDIUM GRAINED	GREY, UNWEATHERED, VERY STRONG ROCK.
278.59	0.54	100		100X SANDSTONE, COARSE GRAINED	COALY, FRAGMENTS, GREY, UNWEATHERED, VERY STRONG ROCK, WITH CARBONACEOUS WISPS, WITH MUD PELLETS.
280.22	1.63	100		100X SANDSTONE	MED.-COARSE GRAINED, GREY, UNWEATHERED, VERY STRONG ROCK.
280.35	0.13	100		100X SANDSTONE, MEDIUM GRAINED	COALY, TRACES, GREY, UNWEATHERED, VERY STRONG ROCK, WITH CARBONACEOUS WISPS.
283.31	2.96	100		100X SANDSTONE, MEDIUM GRAINED	GREY, UNWEATHERED, VERY STRONG ROCK.
283.62	0.31	100		100X SANDSTONE, MEDIUM GRAINED	COALY, TRACES, GREY, UNWEATHERED, VERY STRONG ROCK, WITH CARBONACEOUS WISPS.
284.84	1.22	100		100X SANDSTONE, MEDIUM GRAINED	GREY, UNWEATHERED, VERY STRONG ROCK.
284.88	0.04	100		100X SANDSTONE, MEDIUM GRAINED	GREY, UNWEATHERED, VERY STRONG ROCK, WITH MUD PELLETS.
284.94	0.06	100		100X MUDSTONE	GREY, UNWEATHERED, MODERATELY STRONG ROCK.
285.20	0.26	100		100X SANDSTONE, MEDIUM GRAINED	GREY, UNWEATHERED, STRONG ROCK.
285.42	0.22	100		100X SANDSTONE, MEDIUM GRAINED	GREY, UNWEATHERED, STRONG ROCK, WITH MUD PELLETS.
287.79	2.37	100		100X SANDSTONE, MEDIUM GRAINED	GREY, UNWEATHERED, VERY STRONG ROCK.
288.33	0.54	100		100X SANDSTONE, MEDIUM GRAINED	GREY, UNWEATHERED, VERY STRONG ROCK, WITH MUD PELLETS.
290.99	2.66	100		100X SANDSTONE, MEDIUM GRAINED	GREY, UNWEATHERED, VERY STRONG ROCK, WITH CARBONACEOUS WISPS.
291.04	0.05	100		100X SANDSTONE, MEDIUM GRAINED	COALY, TRACES, GREY, UNWEATHERED, VERY STRONG ROCK.
291.46	0.42	100		100X SANDSTONE, MEDIUM GRAINED	GREY, UNWEATHERED, VERY STRONG ROCK, WITH CARBONACEOUS WISPS, WITH MUD PELLETS.
292.30	0.84	100		100X SANDSTONE, MEDIUM GRAINED	GREY, UNWEATHERED, VERY STRONG ROCK.
292.65	0.35	100		100X SANDSTONE, MEDIUM GRAINED	GREY, UNWEATHERED, VERY STRONG ROCK, WITH MUD PELLETS.
293.54	0.89	100		100X SANDSTONE, MEDIUM GRAINED	GREY, UNWEATHERED, VERY STRONG ROCK, WITH CARBONACEOUS WISPS.

DEPTH TO BASE M	THICKNESS M	REC X	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
*** CORE DESCRIPTION ***					
293.58	0.04	100		100% SANDSTONE, MEDIUM GRAINED	GREY, UNWEATHERED, VERY STRONG ROCK, WITH MUD PELLETS.
295.35	1.77	100		100% SANDSTONE, MEDIUM GRAINED	GREY, UNWEATHERED, VERY STRONG ROCK.
295.41	0.06	100		100% SANDSTONE, MEDIUM GRAINED	GREY, UNWEATHERED, VERY STRONG ROCK, WITH CARBONACEOUS WISPS.
296.97	1.56	100		100% SANDSTONE, MEDIUM GRAINED	GREY, UNWEATHERED, VERY STRONG ROCK.
297.20	0.23	100		100% SANDSTONE, MEDIUM GRAINED	COALY, TRACES, GREY, UNWEATHERED, VERY STRONG ROCK, WITH CARBONACEOUS WISPS.
301.33	4.13	100		100% SANDSTONE, MEDIUM GRAINED	GREY, UNWEATHERED, VERY STRONG ROCK.
301.49	0.16	100		100% SANDSTONE, MEDIUM GRAINED	COALY, TRACES, GREY, UNWEATHERED, VERY STRONG ROCK, WITH CARBONACEOUS WISPS.
301.78	0.29	100		100% SANDSTONE, MEDIUM GRAINED	GREY, UNWEATHERED, VERY STRONG ROCK.
301.87	0.09	100		100% SANDSTONE, FINE GRAINED	LIGHT BROWN, UNWEATHERED, STRONG ROCK.
303.55	1.68	100		100% SANDSTONE, MEDIUM GRAINED	GREY, UNWEATHERED, VERY STRONG ROCK.
303.58	0.03	100		100% SANDSTONE, FINE GRAINED	GREY, UNWEATHERED, STRONG ROCK.
303.91	0.33	100		100% SANDSTONE, MEDIUM GRAINED	COALY, TRACES, GREY, UNWEATHERED, VERY STRONG ROCK, WITH CARBONACEOUS WISPS.
304.37	0.46	100		100% SANDSTONE, MEDIUM GRAINED	GREY, UNWEATHERED, VERY STRONG ROCK, WITH CARBONACEOUS WISPS.
304.55	0.18	100		100% SANDSTONE, FINE GRAINED	GREY, UNWEATHERED, STRONG ROCK.
307.33	2.78	100		100% SANDSTONE, MEDIUM GRAINED	COALY, TRACES, GREY, UNWEATHERED, VERY STRONG ROCK, WITH CARBONACEOUS WISPS, WITH MUD PELLETS.
308.56	1.23	100		100% SANDSTONE, FINE GRAINED	GREY, UNWEATHERED, STRONG ROCK.
308.59	0.03	100		100% CARBONACEOUS SHALE	BLACK, UNWEATHERED, MODERATELY STRONG ROCK.
308.93	0.34	100		50% SANDSTONE 50% MUDSTONE	MED.-COARSE GRAINED, GREY. SANDSTONE LENSES, GREY. UNWEATHERED, STRONG ROCK, WITH MUD PELLETS.
318.52	9.59	100		100% SANDSTONE	MED.-COARSE GRAINED, GREY, UNWEATHERED, VERY STRONG ROCK, WITH CARBONACEOUS WISPS.
318.85	0.33	100		100% SANDSTONE, MEDIUM GRAINED	COALY, STREAKS, LIGHT GREY, UNWEATHERED, STRONG ROCK.
318.99	0.14	100		100% CARBONACEOUS MUDSTONE	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
319.17	0.18	100		100% SANDSTONE, MEDIUM GRAINED	COALY, STREAKS, LIGHT GREY, UNWEATHERED, MODERATELY STRONG ROCK.
319.32	0.15	100		100% SANDSTONE, MEDIUM GRAINED	PEBBLY, LIGHT GREY, UNWEATHERED, MODERATELY STRONG ROCK.
320.43	1.11	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, MODERATELY STRONG ROCK.

DEPTH TO BASE M	THICKNESS M	REC %	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
*** CORE DESCRIPTION ***					
320.49	0.06	100		100% SANDSTONE, MEDIUM GRAINED	PEBBLY, LIGHT GREY, UNWEATHERED, MODERATELY STRONG ROCK.
320.65	0.16	100		100% SANDSTONE	MED.-FINE GRAINED, LIGHT GREY, UNWEATHERED, MODERATELY STRONG ROCK, WITH CARBONACEOUS WISPS.
320.77	0.12	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, MODERATELY STRONG ROCK, THICKLY LAMINATED.
321.18	0.41	100		100% MUDSTONE	GREY, UNWEATHERED, MODERATELY WEAK ROCK, THICKLY LAMINATED, EXTREMELY CLOSELY SPACED JOINTS, WITH SLICKENSIDES.
326.27	5.09	100		100% SANDSTONE, MEDIUM GRAINED	COALY BANDS, LIGHT GREY, UNWEATHERED, MODERATELY STRONG ROCK.
326.56	0.29	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, MODERATELY STRONG ROCK.
327.41	0.85	100		100% SANDSTONE	MED.-COARSE GRAINED, LIGHT GREY, UNWEATHERED, MODERATELY STRONG ROCK.
328.95	1.54	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, MODERATELY STRONG ROCK.
329.01	0.06	100		100% SANDSTONE, MEDIUM GRAINED	COALY, FRAGMENTS, LIGHT GREY, UNWEATHERED, MODERATELY STRONG ROCK.
329.16	0.15	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, MODERATELY STRONG ROCK.
329.50	0.34	100		100% SANDSTONE, MEDIUM GRAINED	COALY, FRAGMENTS, LIGHT GREY, UNWEATHERED, MODERATELY STRONG ROCK.
330.77	1.27	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, MODERATELY STRONG ROCK.
330.99	0.22	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, WITH QUARTZ AND BIOTITE, UNWEATHERED, MODERATELY STRONG ROCK.
332.17	1.18	100		100%	UNWEATHERED, VERY STRONG ROCK.
332.33	0.16	100		100% MUDSTONE	GREY, UNWEATHERED, MODERATELY WEAK ROCK.
337.48	5.15	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, MODERATELY STRONG ROCK.
337.56	0.08	100	1	100% MUDSTONE	CREAM, UNWEATHERED, VERY WEAK ROCK.

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337.58	0.02	100	2	100% CARBONACEOUS MUDSTONE	DARK GREY, UNWEATHERED, MODERATELY WEAK ROCK.
337.60	0.02	100	2	100% COAL, HEAVY DULL	
337.73	0.13	100	2	100% COAL, DULL	
337.74	0.01	100	2	100% CARBONACEOUS MUDSTONE	UNWEATHERED, MODERATELY WEAK ROCK.
337.78	0.04	100	2	100% COAL, HEAVY DULL	
338.29	0.51	100	2	100% COAL, DULL	
338.36	0.07	100	2	100% MUDSTONE	BROWN, UNWEATHERED, WEAK ROCK.

DEPTH TO BASE M	THICKNESS M	REC X	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
*** CORE DESCRIPTION ***					
338.49	0.13	100	2	100% COAL, DULL	
338.55	0.06	100	2	100% COAL, HEAVY DULL	MUDSTONE, BANDS.
338.76	0.21	100	2	100% COAL, DULL WITH FEW BRIGHT BANDS	
BASE OF DALMAYNE D LOWER : THICKNESS= 1.20 M; SAMPLED THICKNESS= 1.20 M					
340.80	2.04	100		100% CARBONACEOUS MUDSTONE	DARK GREY, UNWEATHERED, MODERATELY WEAK ROCK.
340.85	0.05	100		100% COAL, HEAVY DULL	
341.04	0.19		3	100% MUDSTONE	GREY, MODERATELY WEAK ROCK.
341.05	0.01		3	100% CARBONACEOUS MUDSTONE	BLACK, MODERATELY WEAK ROCK.
TOP OF DALMAYNE D LOWER :-111.05 M R.L.					
341.09	0.04		4	100% COAL, HEAVY DULL	BRIGHT COAL, BANDS.
341.11	0.02		4	100% MUDSTONE	GREY, WITH LAMINAE OF CALCITE, MODERATELY WEAK ROCK.
341.14	0.03		4	100% COAL, BRIGHT	CARBONACEOUS, BANDS.
341.52	0.38		4	100% COAL, DULL	WITH CALCITE ON CLEAT.
341.57	0.05		4	100% MUDSTONE	GREY, MODERATELY WEAK ROCK.
341.66	0.09		4	100% COAL, DULL	
341.78	0.12		4	100% COAL, BRIGHT WITH NUMEROUS DULL BANDS	
341.99	0.21		4	100% COAL, DULL	
342.00	0.01		4	100% MUDSTONE	BROWN, MODERATELY WEAK ROCK.
342.11	0.11		4	100% COAL, DULL	
342.14	0.03		4	100% MUDSTONE	DARK BROWN, MODERATELY WEAK ROCK.
342.24	0.10		4	100% COAL, DULL WITH FEW BRIGHT BANDS	
BASE OF DALMAYNE D LOWER : THICKNESS= 1.19 M; SAMPLED THICKNESS= 1.19 M					
342.34	0.10			100% MUDSTONE	DARK BROWN, MODERATELY WEAK ROCK.
342.41	0.07			100% CARBONACEOUS MUDSTONE	BLACK, MODERATELY WEAK ROCK.
342.46	0.05			100% COAL, DULL	
342.68	0.22			100% MUDSTONE	GREY, MODERATELY WEAK ROCK.
343.91	1.23			100% SANDSTONE, FINE GRAINED	GRADING TO, MUDSTONE, GREY.
343.96	0.05			100% COAL, DULL	

DEPTH TO BASE M	THICKNESS M	REC %	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
*** CORE DESCRIPTION ***					
345.87	1.91			100% SANDSTONE, FINE GRAINED	GRADING TO, MUDSTONE, GREY.
346.60	0.73			100% SANDSTONE, FINE GRAINED	GREY.
348.11	1.51			100% SANDSTONE	MED.-FINE GRAINED, LIGHT GREY, MODERATELY STRONG ROCK, WITH CARBONACEOUS WISPS.
348.34	0.23			100% SANDSTONE, FINE GRAINED	GRADING TO, MEDIUM GRAINED, LIGHT GREY, STRONG ROCK, WITH CARBONACEOUS WISPS.
348.41	0.07			100% SANDSTONE, FINE GRAINED	GREY, VERY STRONG ROCK, WITH CARBONACEOUS WISPS.
351.25	2.84			100% SANDSTONE, MEDIUM GRAINED	GREY.
351.32	0.07			100% SANDSTONE	COALY, FRAGMENTS, GREY, WITH CARBONACEOUS WISPS.
351.70	0.38			100% SANDSTONE	MED.-COARSE GRAINED, GREY, WITH CARBONACEOUS WISPS.
351.83	0.13			100% SANDSTONE, MEDIUM GRAINED	COALY, LAMINAE, GREY.
352.02	0.19			100% SANDSTONE, MEDIUM GRAINED	GREY.
353.91	1.89			100% SANDSTONE	MED.-COARSE GRAINED, GREY.
356.59	2.68			100% MUDSTONE	GREY, STRONG ROCK, WITH PLANT REMAINS.
356.67	0.08			100% MUDSTONE	COALY, LAMINAE, GREY, STRONG ROCK, WITH CARBONACEOUS WISPS.
357.41	0.74	100		100% COAL, DULL WITH FEW BRIGHT BANDS	
357.47	0.06	100		100% CARBONACEOUS MUDSTONE	GREY, UNWEATHERED, STRONG ROCK.
358.86	1.39	100		90% MUDSTONE 10% SANDSTONE, FINE GRAINED	GREY. UNWEATHERED, STRONG ROCK.
359.22	0.36	100		60% MUDSTONE 40% SANDSTONE, FINE GRAINED	GREY. LIGHT GREY. UNWEATHERED, VERY STRONG ROCK.
359.59	0.37	100		100% SANDSTONE	MED.-FINE GRAINED, GREY, UNWEATHERED, VERY STRONG ROCK.
359.71	0.12	100		60% MUDSTONE 40% SANDSTONE, FINE GRAINED	GREY. LIGHT GREY. UNWEATHERED, VERY STRONG ROCK.
359.91	0.20	100		100% SANDSTONE	MED.-COARSE GRAINED, GREY, UNWEATHERED, VERY STRONG ROCK.
359.98	0.07	100		100% MUDSTONE	GREY, UNWEATHERED, STRONG ROCK.
360.05	0.07	100		100% SANDSTONE, MEDIUM GRAINED	MUDSTONE, BANDS, GREY, UNWEATHERED, VERY STRONG ROCK.
360.10	0.05	100		100% MUDSTONE	GREY, UNWEATHERED, STRONG ROCK.
360.12	0.02	100		100% SANDSTONE, MEDIUM GRAINED	GREY, UNWEATHERED, VERY STRONG ROCK.
360.15	0.03	100		100% MUDSTONE	GREY, UNWEATHERED, STRONG ROCK.

DEPTH TO BASE M	THICKNESS M	REC X	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
					*** CORE DESCRIPTION ***
360.16	0.01	100		100% SANDSTONE, MEDIUM GRAINED	GREY, UNWEATHERED, VERY STRONG ROCK.
360.33	0.17	100		100% MUDSTONE	SANDSTONE, LAMINAE, GREY, UNWEATHERED, VERY STRONG ROCK.
361.09	0.76	100		50% MUDSTONE 50% SANDSTONE, FINE GRAINED	GREY. LIGHT GREY. UNWEATHERED, VERY STRONG ROCK.
361.60	0.51	100		100% SANDSTONE, FINE GRAINED	MUDSTONE, LAMINAE, GREY, UNWEATHERED, VERY STRONG ROCK.