

THE SHELL COMPANY OF AUSTRALIA LTD.

-----  
BOREHOLE LITHOLOGICAL DESCRIPTION  
-----

GRAY  
-----

GY 178AL  
-----

HOLE TYPE	CORE
EASTING	592,751 M AM GRID
NORTHING	5,401,656 M AM GRID
ELEVATION	506.38 M
TOTAL DEPTH DRILLED	145.90 M
DRILLING STARTED	30/11/82
DRILLING TIME	15 DAYS
CORE SIZE	100.0 MM
HOLE SIZE	170.0 MM
LENGTH CASSED	11.00 M
INITIAL WATER LEVEL	
WATER LEVEL AT GEOPHYSICAL LOGGING	
DRILLING FLUID	
DRILLING CONTRACTOR	H.J. STACPOOLE
GEOPHYSICAL LOGGING CONTRACTOR	
LITHOLOGICAL DESCRIPTION BY	P. SANSOM
INFORMATION AVAILABLE :	SAMPLES TAKEN ANALYTICAL DATA LITHOLOGICAL DESCRIPTION
PETROPHYSICAL WIRELINE LOGS RUN :	NIL

\*\*\* FRAME J05\*\*\*

-----  
BOREHOLE : GY 178AL  
-----

DEPTH TO BASE M	THICKNESS M	REC Z	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
13.30	13.30			100% DOLERITE	SCREE.
57.70	44.40			100% SEDIMENTARY ROCK	
*** CORE DESCRIPTION ***					
59.71	2.01	100		75% SANDSTONE, MEDIUM GRAINED 25% SANDSTONE, FINE GRAINED	MASSIVE, LIGHT GREY. BANDS, LIGHT GREY. UNWEATHERED, MODERATELY WEAK ROCK, VERY WIDE JOINT SPACING, JOINTS DIP 75 DEG., TIGHT PLANAR, ROUGH DISCONTINUITIES.
59.91	0.20	100		90% SANDSTONE, MEDIUM GRAINED 10% COAL	LIGHT GREY. FRAGMENTS, STREAKS, BLACK. UNWEATHERED, MODERATELY WEAK ROCK, WITH CARBONACEOUS WISPS.
60.75	0.84	100		100% SANDSTONE	MED.-FINE GRAINED, MASSIVE, LIGHT GREY, UNWEATHERED, MODERATELY WEAK ROCK.
60.80	0.05	100		55% SANDSTONE 45% COAL	MED.-FINE GRAINED, LIGHT GREY. FRAGMENTS, STREAKS, BLACK. UNWEATHERED, MODERATELY WEAK ROCK.
60.90	0.10	0		CORE LOSS	
61.56	0.66	100		98% SANDSTONE, MEDIUM GRAINED 2% COAL	LIGHT GREY. LAMINAE, BLACK. UNWEATHERED, MODERATELY WEAK ROCK, WITH CARBONACEOUS WISPS.
61.90	0.34	100		100% MUDSTONE	SILTY, GREY, UNWEATHERED, MODERATELY WEAK ROCK.
61.91	0.01	100		100% SANDSTONE, FINE GRAINED	BANDS, LIGHT GREY, UNWEATHERED, MODERATELY WEAK ROCK.
61.97	0.06	100		100% MUDSTONE	SILTY, GREY, UNWEATHERED, MODERATELY WEAK ROCK.
62.05	0.08	100		75% SANDSTONE, FINE GRAINED 25% SILTSTONE	INTERCALATIONS, SILTSTONE, LIGHT GREY. LAMINAE, LENSES, GREY. UNWEATHERED, MODERATELY WEAK ROCK.
62.32	0.27	100	T1	99% MUDSTONE 1% COAL	GREY. LAMINAE, BLACK. UNWEATHERED, MODERATELY WEAK ROCK.
62.38	0.06	100	T1	70% MUDSTONE 30% CARBONACEOUS MUDSTONE	GREY. BANDS, LAMINAE, BLACK. UNWEATHERED, MODERATELY WEAK ROCK.
TOP OF MT. NICHOLAS MIDDLE 1 : 444.00 M R.L.					
62.43	0.05	100	A1	95% CARBONACEOUS MUDSTONE 5% COAL, BRIGHT	BLACK. BANDS, BLACK. UNWEATHERED, MODERATELY WEAK ROCK.
62.44	0.01	100	A1	100% SILTSTONE	CARBONACEOUS, BROWN-BLACK, UNWEATHERED, MODERATELY WEAK ROCK.

DEPTH TO BASE M	THICKNESS M	REC %	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
62.50	0.06	100	A1	55% COAL, DULL 45% COAL, BRIGHT	BLACK. BANDS, BLACK. UNWEATHERED, MODERATELY WEAK ROCK.
62.53	0.03	100	A1	100% COAL, DULL WITH FEW BRIGHT BANDS	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
62.54	0.01	100	A1	100% COAL, BRIGHT	BLACK, WITH CALCITE ON CLEAT, UNWEATHERED, MODERATELY WEAK ROCK.
62.61	0.07	100	A1	100% COAL, DULL WITH FEW BRIGHT BANDS	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
62.62	0.01	100	A1	70% COAL, DULL WITH FEW BRIGHT BANDS 30% COAL, BRIGHT	BLACK. BANDS, BLACK. UNWEATHERED, MODERATELY WEAK ROCK.
62.65	0.03	100	A1	100% COAL, DULL WITH NUMEROUS BRIGHT BANDS	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
62.67	0.02	100	A1	100% COAL, DULL	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
62.71	0.04	100	A1	100% COAL, MID LUSTROUS	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
62.73	0.02	100	A2	100% MUDSTONE	CARBONACEOUS, DARK GREY, UNWEATHERED, MODERATELY WEAK ROCK.
62.75	0.02	100	A2	100% MUDSTONE	CLAYSTONE, GREY, UNWEATHERED, VERY WEAK ROCK.
62.76	0.01	100	A2	100% CLAYSTONE	CARBONACEOUS, DARK GREY, UNWEATHERED, VERY WEAK ROCK.
62.89	0.13	100	A2	100% CLAYSTONE	CREAM, UNWEATHERED, WEAK ROCK.
62.96	0.07	100	A3	100% CARBONACEOUS MUDSTONE	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
63.03	0.07	100	A3	100% COAL, DULL	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
63.08	0.05	0	A3	CORE LOSS	
63.15	0.07		A3	100% COAL, DULL	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
63.20	0.05	0	A3	CORE LOSS	
63.21	0.01	100	A3	100% COAL, DULL WITH NUMEROUS BRIGHT BANDS	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
63.22	0.01	100	A3	100% COAL, BRIGHT	BLACK, UNWEATHERED, WEAK ROCK.
63.24	0.02	100	A3	100% COAL, BRIGHT WITH NUMEROUS DULL BANDS	BLACK, UNWEATHERED, WEAK ROCK.
63.25	0.01	100	A3	100% COAL, DULL WITH NUMEROUS BRIGHT BANDS	BLACK, UNWEATHERED, WEAK ROCK.
63.26	0.01	100	A3	100% COAL, BRIGHT	BLACK, UNWEATHERED, WEAK ROCK.
63.27	0.01	100	A3	100% COAL, DULL WITH NUMEROUS BRIGHT BANDS	BLACK, UNWEATHERED, WEAK ROCK.
63.28	0.01	100	A3	100% COAL, BRIGHT	BLACK, UNWEATHERED, WEAK ROCK.
63.30	0.02	100	A3	100% COAL, DULL WITH NUMEROUS BRIGHT BANDS	BLACK, UNWEATHERED, WEAK ROCK.
63.32	0.02	100	A3	100% COAL, BRIGHT	BLACK, UNWEATHERED, WEAK ROCK.
63.35	0.03	100	A3	100% COAL, MID LUSTROUS	BLACK, UNWEATHERED, WEAK ROCK.
63.36	0.01	100	A3	100% CLAYSTONE	BROWN, UNWEATHERED, VERY WEAK ROCK.

DEPTH TO BASE M	THICKNESS M	REC %	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
*** CORE DESCRIPTION ***					
63.42	0.06	100	A3	100% COAL, DULL WITH FEW BRIGHT BANDS	BLACK, WITH FRAGMENTS OF PYRITE, UNWEATHERED, MODERATELY WEAK ROCK.
63.43	0.01	100	A3	100% TONSTEIN	GREY-BROWN, UNWEATHERED, MODERATELY WEAK ROCK.
63.57	0.14	100	A3	100% COAL, DULL	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
63.80	0.23	0	A3	CORE LOSS	
63.81	0.01	10	A3	100% COAL, DULL WITH FEW BRIGHT BANDS	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
64.09	0.28	100	A3	100% COAL, DULL WITH FEW BRIGHT BANDS	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
64.17	0.08	100	A3	100% COAL, DULL WITH NUMEROUS BRIGHT BANDS	BADLY BROKEN, BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
64.22	0.05	100	A3	100% COAL, MID LUSTROUS - BRIGHT	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
64.25	0.03	100	A3	100% CARBONACEOUS MUDSTONE	BROWN-BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
64.39	0.14	100	A3	100% MUDSTONE	GREY, UNWEATHERED, MODERATELY WEAK ROCK.
64.49	0.10	100	A3	100% COAL, HEAVY DULL	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
64.50	0.01	100	A3	100% MUDSTONE	BANDS, DARK GREY, UNWEATHERED, MODERATELY WEAK ROCK.
64.53	0.03	100	A3	100% COAL, HEAVY DULL	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
64.54	0.01	100	A3	100% COAL, DULL WITH NUMEROUS BRIGHT BANDS	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
64.58	0.04	100	A3	100% CARBONACEOUS MUDSTONE	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
64.70	0.12	100	A3	75% COAL, DULL 25% COAL, DULL WITH FEW BRIGHT BANDS	BLACK. BLACK. UNWEATHERED, MODERATELY WEAK ROCK, MODERATELY WIDE JOINT SPACING, JOINTS DIP 50 DEG., TIGHT, PLANAR, SMOOTH DISCONTINUITIES.

BASE OF MT. NICHOLAS MIDDLE 1 : THICKNESS= 2.32 M; SAMPLED THICKNESS= 2.32 M

65.00	0.30	100	T2	55% SILTSTONE 44% MUDSTONE 1% COAL	INTERCALATIONS, MUDSTONE, LIGHT GREY. BANDS, LAMINAE, GREY. STREAKS, LAMINAE, BLACK. UNWEATHERED, MODERATELY WEAK ROCK.
65.22	0.22	100		100% MUDSTONE	SILTY, GREY, UNWEATHERED, MODERATELY WEAK ROCK.
65.26	0.04	100		100% CARBONACEOUS MUDSTONE	DARK GREY, UNWEATHERED, MODERATELY WEAK ROCK.
65.28	0.02	100		100% COAL, DULL WITH FEW BRIGHT BANDS	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
65.31	0.03	100		100% TONSTEIN	GREY, UNWEATHERED, MODERATELY WEAK ROCK.
65.32	0.01	100		100% CARBONACEOUS MUDSTONE	DARK GREY, UNWEATHERED, MODERATELY WEAK ROCK.
65.39	0.07	100		100% COAL, DULL WITH FEW BRIGHT BANDS	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
65.42	0.03	100		100% COAL, HEAVY DULL	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.

DEPTH TO BASE M	THICKNESS M	REC X	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
*** CORE DESCRIPTION ***					
65.45	0.03	100		100X COAL, DULL	BADLY BROKEN, BLACK, UNWEATHERED, WEAK ROCK.
65.47	0.02			100X CARBONACEOUS MUDSTONE	DARK GREY, UNWEATHERED, WEAK ROCK.
65.70	0.23			75X COAL, DULL WITH FEW BRIGHT BANDS 20X COAL, INTERBANDED DULL AND BRIGHT 5X MUDSTONE	BLACK. BLACK. STREAKS, LENSES, GREY. UNWEATHERED, WEAK ROCK.
65.80	0.10	0		CORE LOSS	
*** CHIP DESCRIPTION ***					
72.60	6.80			100X SEDIMENTARY ROCK	UNWEATHERED, WEAK ROCK.
*** CORE DESCRIPTION ***					
73.03	0.43	100		100X MUDSTONE	MASSIVE, GREY, UNWEATHERED, WEAK ROCK, WITH PLANT REMAINS.
73.04	0.01	100		100X CLAYSTONE	BANDS, GREY-BROWN, UNWEATHERED, VERY WEAK ROCK.
73.15	0.11	100		100X MUDSTONE	MASSIVE, GREY, UNWEATHERED, WEAK ROCK, WITH PLANT REMAINS.
73.55	0.40	100	T3	100X MUDSTONE	MASSIVE, GREY, UNWEATHERED, WEAK ROCK, WITH PLANT REMAINS.
TOP OF MT. NICHOLAS MIDDLE 2 : 432.83 M R.L.					
73.64	0.09	100	A4	100X COAL, INTERBANDED DULL AND BRIGHT	BLACK, UNWEATHERED, WEAK ROCK.
73.67	0.03	100	A4	100X CARBONACEOUS MUDSTONE	BROWN-BLACK, UNWEATHERED, WEAK ROCK.
73.69	0.02	100	A4	100X CLAYSTONE	TUFFACEOUS, CREAM, UNWEATHERED, WEAK ROCK.
73.76	0.07	100	A4	100X COAL, DULL WITH FEW BRIGHT BANDS	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
73.82	0.06	100	A4	100X COAL, DULL	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
74.00	0.18	100	A4	100X COAL, DULL	BADLY BROKEN, BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
74.66	0.66	100	A4	60X COAL, DULL 40X COAL, DULL WITH FEW BRIGHT BANDS	BADLY BROKEN, BLACK. BADLY BROKEN, BLACK. UNWEATHERED, MODERATELY WEAK ROCK.
74.67	0.01	100	A4	60X TONSTEIN 40X COAL, DULL	WHITE. BLACK. UNWEATHERED, MODERATELY WEAK ROCK.
74.71	0.04	100	A4	100X COAL, DULL	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
74.72	0.01	100	A4	75X COAL, HEAVY DULL 25X MUDSTONE	BLACK. LENSES, STREAKS, GREY. UNWEATHERED, MODERATELY WEAK ROCK.
74.79	0.07	100	A4	100X COAL, HEAVY DULL	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.

DEPTH TO BASE M	THICKNESS M	REC %	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
*** CORE DESCRIPTION ***					
74.98	0.19	100	A4	75% COAL, MID LUSTROUS - DULL 25% COAL, BRIGHT	BLACK. BANDS, BLACK. UNWEATHERED, MODERATELY WEAK ROCK.
75.00	0.02	100	A4	100% CARBONACEOUS MUDSTONE	COALY, BANDS, BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
75.45	0.45	100	A4	50% COAL, MID LUSTROUS - DULL 30% COAL, DULL WITH FEW BRIGHT BANDS 20% COAL, DULL	BRIGHT COAL, LAMINAE, BLACK. BADLY BROKEN, BLACK. BADLY BROKEN, BLACK. UNWEATHERED, MODERATELY WEAK ROCK.
75.54	0.09	100	A4	100% COAL, MID LUSTROUS - DULL	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
75.62	0.08	100	A4	100% COAL, DULL WITH FEW BRIGHT BANDS	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
75.63	0.01	100	A4	55% COAL, DULL 45% COAL, BRIGHT	BLACK. BLACK. UNWEATHERED, MODERATELY WEAK ROCK.
75.74	0.11	100	A4	75% COAL, DULL WITH NUMEROUS BRIGHT BANDS 25% COAL, DULL	BLACK. BLACK. UNWEATHERED, MODERATELY WEAK ROCK.
75.75	0.01	100	A4	100% CARBONACEOUS MUDSTONE	DARK GREY, UNWEATHERED, MODERATELY WEAK ROCK.
75.82	0.07	100	A4	80% COAL, MID LUSTROUS - DULL 20% COAL, INTERBANDED DULL AND BRIGHT	BLACK. BLACK. UNWEATHERED, MODERATELY WEAK ROCK.
75.84	0.02	100	A4	100% COAL, BRIGHT WITH FEW DULL BANDS	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
75.85	0.01	100	A4	100% TONSTEIN	COALY, STREAKS, CREAM, UNWEATHERED, MODERATELY WEAK ROCK.
75.88	0.03	100	A4	100% COAL, BRIGHT WITH FEW DULL BANDS	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
75.89	0.01	100	A4	60% TONSTEIN 40% COAL, DULL WITH FEW BRIGHT BANDS	CREAM. BLACK. UNWEATHERED, MODERATELY WEAK ROCK.
75.91	0.02	100	A4	100% COAL, HEAVY DULL	BRIGHT COAL, STREAKS, BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
76.00	0.09	100	A4	100% COAL, BRIGHT WITH NUMEROUS DULL BANDS	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
76.08	0.08	100	A4	100% COAL, HEAVY DULL	BLACK, UNWEATHERED, WEAK ROCK.
76.10	0.02	100	A4	100% CARBONACEOUS MUDSTONE	BROWN-BLACK, UNWEATHERED, WEAK ROCK.
BASE OF MT. NICHOLAS MIDDLE 2 : THICKNESS= 2.55 M; SAMPLED THICKNESS= 2.55 M					
76.12	0.02	100	T4	100% CLAYSTONE	COALY, STREAKS, WHITE, UNWEATHERED, WEAK ROCK.
76.16	0.04	100	T4	100% MUDSTONE	GREY, UNWEATHERED, WEAK ROCK.
76.35	0.19	100	T4	100% MUDSTONE	MASSIVE, CARBONACEOUS, DARK GREY, UNWEATHERED, WEAK ROCK.
76.51	0.16	100	T4	100% MUDSTONE	MASSIVE, GREY, UNWEATHERED, WEAK ROCK.

DEPTH TO BASE M	THICKNESS M	REC X	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
77.10	0.59	100		100% MUDSTONE	MASSIVE, SILTSTONE, GREY, UNWEATHERED, WEAK ROCK, WITH PLANT REMAINS.
*** CORE DESCRIPTION ***					
132.20	55.10			100% SEDIMENTARY ROCK	UNWEATHERED, WEAK ROCK.
*** CORE DESCRIPTION ***					
133.21	1.01	75		70% MUDSTONE 30% SILTSTONE	SILTSTONE, MASSIVE, GREY. BANDS, LENSES, GREY. UNWEATHERED, WEAK ROCK, WITH PLANT REMAINS.
133.28	0.07	100		100% SANDSTONE, FINE GRAINED	LIGHT GREY, UNWEATHERED, WEAK ROCK.
133.79	0.51	100		100% SILTSTONE	MASSIVE, GREY, UNWEATHERED, WEAK ROCK.
133.91	0.12	100		100% SANDSTONE, FINE GRAINED	LIGHT GREY, UNWEATHERED, WEAK ROCK.
133.99	0.08	100		100% SILTSTONE	GREY, UNWEATHERED, WEAK ROCK.
134.52	0.53	100		100% SANDSTONE	MED.-FINE GRAINED, MASSIVE, LIGHT GREY, UNWEATHERED, WEAK ROCK.
134.74	0.22	100		100% SILTSTONE	CARBONACEOUS, LAMINAE, GREY, UNWEATHERED, WEAK ROCK.
135.20	0.46	100		100% SANDSTONE, MEDIUM GRAINED	MASSIVE, BADLY BROKEN, LIGHT GREY, UNWEATHERED, WEAK ROCK.
137.15	1.95	100		100% SANDSTONE, MEDIUM GRAINED	MASSIVE, LIGHT GREY, UNWEATHERED, WEAK ROCK, BEDS DIP 15 DEG., WITH CARBONACEOUS WISPS.
137.46	0.31	100		100% SANDSTONE, MEDIUM GRAINED	MASSIVE, CALCAREOUS, LIGHT GREY, UNWEATHERED, WEAK ROCK.
137.51	0.05	100		80% SANDSTONE, MEDIUM GRAINED 20% COAL	MASSIVE, LIGHT GREY. FRAGMENTS, STREAKS, LIGHT GREY. UNWEATHERED, WEAK ROCK.
142.35	4.84	100		75% SANDSTONE, MEDIUM GRAINED 23% SANDSTONE 2% COAL	MASSIVE, LIGHT GREY. MED.-FINE GRAINED, MASSIVE, LIGHT GREY. FRAGMENTS, STREAKS, BLACK. UNWEATHERED, WEAK ROCK, WITH CARBONACEOUS WISPS.
142.50	0.15	100		80% SANDSTONE, MEDIUM GRAINED 20% COAL	LIGHT GREY. FRAGMENTS, STREAKS, BLACK. UNWEATHERED, WEAK ROCK.
142.73	0.23	100	T5	98% SANDSTONE, MEDIUM GRAINED 2% COAL	MASSIVE, LIGHT GREY. FRAGMENTS, STREAKS, BLACK. UNWEATHERED, WEAK ROCK.
TOP OF MT. NICHOLAS LOWER 2 : 363.65 M R.L.					
142.77	0.04	100	A5	100% COAL, DULL	BADLY BROKEN, BLACK, UNWEATHERED, WEAK ROCK.

DEPTH TO BASE M	THICKNESS M	REC X	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
*** CORE DESCRIPTION ***					
142.78	0.01	100	A5	98% MUDSTONE 2% COAL	TUFFACEOUS, GREY-BROWN. STREAKS, BLACK. UNWEATHERED, WEAK ROCK.
142.79	0.01	100	A5	95% COAL, DULL 5% MUDSTONE	BLACK. STREAKS, GREY. UNWEATHERED, WEAK ROCK.
142.81	0.02	100	A5	100% MUDSTONE	CARBONACEOUS, DARK GREY, UNWEATHERED, WEAK ROCK.
142.82	0.01	100	A5	100% CARBONACEOUS MUDSTONE	BLACK, UNWEATHERED, WEAK ROCK.
142.87	0.05	100	A5	100% COAL, MID LUSTROUS - DULL	BLACK, UNWEATHERED, WEAK ROCK.
142.98	0.11	100	A5	100% COAL, DULL WITH FEW BRIGHT BANDS	BADLY BROKEN, BLACK, WITH FRAGMENTS OF PYRITE, UNWEATHERED, WEAK ROCK.
143.09	0.11	100	A5	100% COAL, MID LUSTROUS - DULL	BADLY BROKEN, BLACK, UNWEATHERED, WEAK ROCK.
143.17	0.08	100	A5	70% COAL, MID LUSTROUS - DULL 30% COAL, DULL WITH FEW BRIGHT BANDS	BADLY BROKEN, BLACK. BADLY BROKEN. UNWEATHERED, WEAK ROCK.
143.47	0.30	100	A5	50% COAL, DULL 30% COAL, DULL WITH FEW BRIGHT BANDS 20% COAL, MID LUSTROUS - DULL	BADLY BROKEN, BLACK. BADLY BROKEN. BLACK. UNWEATHERED, WEAK ROCK.
143.48	0.01	100	A5	100% CARBONACEOUS MUDSTONE	BLACK, UNWEATHERED, WEAK ROCK.
143.53	0.05	100	A5	100% COAL, INTERBANDED DULL AND BRIGHT	BLACK, UNWEATHERED, WEAK ROCK.
143.55	0.02	100	A5	75% COAL, DULL 25% MUDSTONE	BLACK. BANDS, GREY. UNWEATHERED, WEAK ROCK.
143.58	0.03	100	A5	100% COAL, DULL	BLACK, UNWEATHERED, WEAK ROCK.
143.62	0.04	100	A5	75% COAL, DULL 25% MUDSTONE	BLACK. BANDS, GREY. UNWEATHERED, WEAK ROCK.
143.67	0.05	100	A5	100% COAL, DULL WITH FEW BRIGHT BANDS	BLACK, UNWEATHERED, WEAK ROCK.
143.69	0.02	100	A5	100% COAL, HEAVY DULL	BLACK, UNWEATHERED, WEAK ROCK.
143.71	0.02	100	A5	100% MUDSTONE	GREY-BROWN, UNWEATHERED, WEAK ROCK.
143.75	0.04	100	A5	100% COAL, HEAVY DULL	BLACK, UNWEATHERED, WEAK ROCK.
143.85	0.10	100	A5	100% COAL, DULL	BADLY BROKEN, BLACK, UNWEATHERED, WEAK ROCK.
143.98	0.13	100	A5	100% COAL, INTERBANDED DULL AND BRIGHT	BLACK, UNWEATHERED, WEAK ROCK.
144.10	0.12	100	A5	60% COAL, DULL WITH FEW BRIGHT BANDS 40% COAL, MID LUSTROUS - DULL	BADLY BROKEN, BLACK. BLACK. UNWEATHERED, WEAK ROCK.
144.20	0.10	100	A5	100% COAL, MID LUSTROUS	BADLY BROKEN, BLACK, UNWEATHERED, WEAK ROCK.
144.54	0.34	0	A5	CORE LOSS	

DEPTH TO BASE M	THICKNESS M	REC %	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
*** CORE DESCRIPTION ***					
144.69	0.15	100	A5	100% COAL, DULL	BADLY BROKEN, BLACK, UNWEATHERED, WEAK ROCK.
144.72	0.03	100	A5	100% TONSTEIN	WHITE, UNWEATHERED, WEAK ROCK.
144.79	0.07	100	A5	100% COAL, DULL	BLACK, UNWEATHERED, WEAK ROCK.
144.83	0.04	100	A5	100% TONSTEIN	WHITE, UNWEATHERED, WEAK ROCK.
145.08	0.25	100	A5	100% COAL, DULL WITH NUMEROUS BRIGHT BANDS	BLACK, UNWEATHERED, WEAK ROCK.
145.12	0.04	100	A5	100% COAL, BRIGHT WITH FEW DULL BANDS	BLACK, UNWEATHERED, WEAK ROCK.
145.31	0.19	100	A5	100% COAL, DULL WITH FEW BRIGHT BANDS	BLACK, UNWEATHERED, WEAK ROCK.
145.37	0.06	100	A5	100% COAL, INTERBANDED DULL AND BRIGHT	BLACK, UNWEATHERED, WEAK ROCK.
145.53	0.16	100	A5	100% COAL, DULL WITH FEW BRIGHT BANDS	BLACK, UNWEATHERED, WEAK ROCK.
145.63	0.10	100	A5	100% COAL, DULL WITH NUMEROUS BRIGHT BANDS	BLACK, UNWEATHERED, WEAK ROCK.
145.77	0.14	100	A5	100% COAL, BRIGHT WITH NUMEROUS DULL BANDS	BLACK, UNWEATHERED, WEAK ROCK.
145.79	0.02	100	A5	100% MUDSTONE	BANDS, GREY, UNWEATHERED, WEAK ROCK.
145.84	0.05	100	A5	100% COAL, INTERBANDED DULL AND BRIGHT	BLACK, UNWEATHERED, WEAK ROCK.

BASE OF MT. NICHOLAS LOWER 2 : THICKNESS= 3.11 M; SAMPLED THICKNESS= 3.11 M

145.88	0.04	100		100% MUDSTONE	BADLY BROKEN, GREY, UNWEATHERED, WEAK ROCK.
145.89	0.01	100		100% CARBONACEOUS MUDSTONE	BROWN-BLACK, UNWEATHERED, WEAK ROCK.
145.90	0.01	100		100% MUDSTONE	GREY, UNWEATHERED, WEAK ROCK.