

THE SHELL COMPANY OF AUSTRALIA LTD.

BOREHOLE LITHOLOGICAL DESCRIPTION

GRAY

GY 178BL

HOLE TYPE CORE  
EASTING 592,768 M AM GRID  
NORTHING 5,401,650 M AM GRID  
ELEVATION 506.38 M  
TOTAL DEPTH DRILLED 145.55 M  
DRILLING STARTED 08/01/83  
DRILLING TIME 5 DAYS  
CORE SIZE 100.0 MM  
HOLE SIZE 200.0 MM  
LENGTH CASED 12.00 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 I06\*\*\*

BOREHOLE : GY 178BL

DEPTH TO BASE M	THICKNESS M	REC X	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
12.00	12.00			100X DOLERITE	SCREE.
60.00	48.00			100X SEDIMENTARY ROCK	
*** CHIP DESCRIPTION ***					
60.35	0.35	100		100X MUDSTONE	SILTY, GREY, UNWEATHERED, MODERATELY WEAK ROCK.
60.44	0.09	100		95X MUDSTONE 5X CARBONACEOUS MUDSTONE	SILTY, GREY. LAMINAE, BLACK. UNWEATHERED, MODERATELY WEAK ROCK.
60.66	0.22	100		95X MUDSTONE 5X CARBONACEOUS MUDSTONE	SILTY, GREY. LAMINAE, STREAKS, BLACK. UNWEATHERED, MODERATELY WEAK ROCK, MODERATELY CLOSE JOINT SPACING, WITH SLICKENSIDES, JOINTS DIP 20 DEG., TIGHT, PLANAR, SMOOTH DISCONTINUITIES.
TOP OF MT. NICHOLAS MIDDLE 1 : 445.72 M R.L.					
60.69	0.03	100	A1	75X SILTSTONE 25X CARBONACEOUS MUDSTONE	CARBONACEOUS, GREY. BLACK. UNWEATHERED, MODERATELY WEAK ROCK.
60.90	0.21	100	A1	60X COAL, DULL WITH FEW BRIGHT BANDS 40X COAL, MID LUSTROUS	BLACK. BLACK. UNWEATHERED, MODERATELY WEAK ROCK.
60.99	0.09	100	A1	100X COAL, INTERBANDED DULL AND BRIGHT	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
61.03	0.04	100	A1	100X COAL, DULL	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
61.16	0.13	100	A1	100X CLAYSTONE	TUFFACEOUS, GREY, UNWEATHERED, VERY WEAK ROCK.
61.18	0.02	100	A1	100X CARBONACEOUS MUDSTONE	COALY, BLACK, UNWEATHERED, WEAK ROCK.
61.29	0.11	100	A1	70X COAL, DULL 30X CARBONACEOUS MUDSTONE	BLACK. BLACK. UNWEATHERED, WEAK ROCK.
61.38	0.09	100	A1	100X COAL, DULL WITH NUMEROUS BRIGHT BANDS	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
61.47	0.09	100	A1	100X CLAYSTONE	TUFFACEOUS, GREY, UNWEATHERED, VERY WEAK ROCK.
61.50	0.03	100	A1	100X COAL, DULL	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
61.62	0.12	100	A1	100X COAL, DULL WITH FEW BRIGHT BANDS	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
61.66	0.04	100	A1	100X CLAYSTONE	CARBONACEOUS, TUFFACEOUS, BROWN, UNWEATHERED, VERY WEAK ROCK.
61.77	0.11	100	A1	100X COAL, DULL	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
62.13	0.36	100	A1	100X COAL, DULL	BADLY BROKEN, BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
62.15	0.02	100	A1	100X COAL, BRIGHT	BANDS, BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
62.23	0.08	100	A1	100X COAL, MID LUSTROUS	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.

DEPTH TO BASE M	THICKNESS M	REC %	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
62.24	0.01	100	A1	100% COAL, BRIGHT	BANDS, BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
62.32	0.08	100	A1	100% COAL, DULL WITH FEW BRIGHT BANDS	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
62.34	0.02	100	A1	100% COAL, BRIGHT	BANDS, BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
62.42	0.08	100	A1	100% COAL, MID LUSTROUS	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
62.49	0.07	100	A1	70% COAL, MID LUSTROUS 30% COAL, MID LUSTROUS - BRIGHT	BADLY BROKEN, BLACK. BADLY BROKEN, BLACK. UNWEATHERED, MODERATELY WEAK ROCK.
62.63	0.14	100	A1	60% COAL, DULL 30% COAL, MID LUSTROUS - BRIGHT 10% COAL, BRIGHT	BLACK. BLACK. LAMINAE, STREAKS, BLACK. UNWEATHERED, MODERATELY WEAK ROCK.
62.73	0.10	100	A1	80% COAL, MID LUSTROUS - BRIGHT 20% COAL, BRIGHT	BADLY BROKEN, BLACK. BLACK. UNWEATHERED, MODERATELY WEAK ROCK.
62.76	0.03	100	A1	100% CARBONACEOUS MUDSTONE	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
62.88	0.12	100	A1	100% MUDSTONE	GREY, UNWEATHERED, MODERATELY WEAK ROCK.
62.90	0.02	100	A1	100% CARBONACEOUS MUDSTONE	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
62.96	0.06	100	A1	100% COAL, MID LUSTROUS - BRIGHT	BADLY BROKEN, BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
63.00	0.04	100	A1	90% MUDSTONE 10% COAL, BRIGHT	GREY. STREAKS, BLACK. UNWEATHERED, MODERATELY WEAK ROCK.
63.06	0.06	100	A1	70% COAL, DULL 30% COAL, MID LUSTROUS	BLACK. BLACK. UNWEATHERED, MODERATELY WEAK ROCK.
63.10	0.04	100	A1	60% CARBONACEOUS MUDSTONE 40% COAL, BRIGHT	BLACK. LAMINAE, BLACK. UNWEATHERED, MODERATELY WEAK ROCK.
63.19	0.09	100	A1	100% COAL, DULL WITH FEW BRIGHT BANDS	BADLY BROKEN, BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
63.20	0.01	100	A1	100% MUDSTONE	BROWN, UNWEATHERED, MODERATELY WEAK ROCK.
63.30	0.10	100	A1	55% COAL, DULL WITH FEW BRIGHT BANDS 25% CARBONACEOUS MUDSTONE 20% COAL, MID LUSTROUS	BADLY BROKEN, BLACK. BADLY BROKEN, BLACK. BADLY BROKEN, BLACK. UNWEATHERED, MODERATELY WEAK ROCK.

BASE OF MT. NICHOLAS MIDDLE 1 : THICKNESS= 2.64 M; SAMPLED THICKNESS= 2.64 M

63.35	0.05	100	T1	100% MUDSTONE	CARBONACEOUS, BROWN-BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
63.49	0.14	100	T1	100% SILTSTONE	LIGHT GREY, UNWEATHERED, MODERATELY WEAK ROCK, WITH CARBONACEOUS WISPS.

\*\*\* FRAME K06\*\*\*

BOREHOLE : GY 178BL

DEPTH TO BASE M	THICKNESS M	REC %	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
63.57	0.08	100		100% SILTSTONE	LIGHT GREY, UNWEATHERED, MODERATELY WEAK ROCK, WITH CARBONACEOUS WISPS.
63.65	0.08	100		100% SILTSTONE	CALCAREOUS, WHITE, UNWEATHERED, MODERATELY WEAK ROCK, WITH CARBONACEOUS WISPS.
63.70	0.05	100		100% SILTSTONE	CARBONACEOUS, GREY, UNWEATHERED, MODERATELY WEAK ROCK.
63.95	0.25	100		100% MUDSTONE	SILTY, GREY, UNWEATHERED, MODERATELY WEAK ROCK.
64.01	0.06	100		90% CARBONACEOUS MUDSTONE 10% COAL	CALCAREOUS, WHITE. FRAGMENTS, STREAKS, BLACK. UNWEATHERED, MODERATELY WEAK ROCK.
64.05	0.04	100		90% CARBONACEOUS MUDSTONE 10% COAL	DARK GREY. LAMINAE, BLACK. UNWEATHERED, MODERATELY WEAK ROCK.
64.08	0.03	100		100% COAL, DULL	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
64.09	0.01	100		75% CARBONACEOUS MUDSTONE 25% COAL	DARK GREY. LAMINAE, STREAKS, BLACK. UNWEATHERED, MODERATELY WEAK ROCK.
64.23	0.14	100		50% COAL, DULL WITH FEW BRIGHT BANDS 48% COAL, MID LUSTROUS 2% MUDSTONE	BLACK. BLACK. STREAKS, WHITE. UNWEATHERED, MODERATELY WEAK ROCK.
64.28	0.05	100		95% COAL, DULL 5% MUDSTONE	BLACK. PELLETAL, WHITE. UNWEATHERED, MODERATELY WEAK ROCK.
64.36	0.08	100		100% COAL, DULL WITH FEW BRIGHT BANDS	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
64.42	0.06	100		100% COAL, DULL WITH NUMEROUS BRIGHT BANDS	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
64.47	0.05	100		100% COAL, BRIGHT WITH NUMEROUS DULL BANDS	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
64.48	0.01	100		95% CARBONACEOUS MUDSTONE 5% COAL	BLACK. STREAKS, BLACK. UNWEATHERED, MODERATELY WEAK ROCK.
64.49	0.01	100		80% CARBONACEOUS MUDSTONE 20% COAL, BRIGHT	COALY, BLACK. STREAKS, BLACK. UNWEATHERED, MODERATELY WEAK ROCK.
64.52	0.03	100		100% SILTSTONE	TUFFACEOUS, GREY, UNWEATHERED, MODERATELY WEAK ROCK.
64.54	0.02	100		75% MUDSTONE 25% COAL	CARBONACEOUS, GREY. STREAKS, BLACK. UNWEATHERED, MODERATELY WEAK ROCK.
64.55	0.01	100		55% COAL, INTERBANDED DULL AND BRIGHT 45% CARBONACEOUS MUDSTONE	BLACK. BLACK. UNWEATHERED, MODERATELY WEAK ROCK.

DEPTH TO BASE M	THICKNESS M	REC X	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
*** CORE DESCRIPTION ***					
64.66	0.11	100		80% MUDSTONE 15% COAL 5% MUDSTONE	GREY. STREAKS, BLACK. CARBONACEOUS, BLACK. UNWEATHERED, MODERATELY WEAK ROCK, WITH CARBONACEOUS WISPS, WITH PLANT REMAINS.
64.72	0.06	100		100% COAL, BRIGHT WITH FEW DUL' BANDS	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
64.73	0.01	100		80% MUDSTONE 20% COAL	CARBONACEOUS, DARK GREY. STREAKS, BLACK. UNWEATHERED, MODERATELY WEAK ROCK.
64.74	0.01	100		100% COAL, BRIGHT WITH NUMEROUS DULL BANDS	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
64.75	0.01	100		100% MUDSTONE	GREY, UNWEATHERED, MODERATELY WEAK ROCK, WITH CARBONACEOUS WISPS.
64.81	0.06	100		100% COAL, BRIGHT WITH NUMEROUS DULL BANDS	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
64.82	0.01	100		100% MUDSTONE	CARBONACEOUS, DARK GREY, UNWEATHERED, MODERATELY WEAK ROCK.
64.96	0.14	100		55% COAL, INTERBANDED DULL AND BRIGHT 25% COAL, BRIGHT 20% COAL, DULL WITH FEW BRIGHT BANDS	BLACK. BLACK. BLACK. UNWEATHERED, MODERATELY WEAK ROCK.
*** CHIP DESCRIPTION ***					
71.50	6.54			100% SEDIMENTARY ROCK	UNWEATHERED, MODERATELY WEAK ROCK.
*** CORE DESCRIPTION ***					
71.94	0.44	100		100% MUDSTONE	MASSIVE, GREY, UNWEATHERED, WEAK ROCK.
71.95	0.01	100		60% MUDSTONE 40% COAL	GREY. BANDS, BLACK. UNWEATHERED, WEAK ROCK.
72.10	0.15	100		100% MUDSTONE	GREY, UNWEATHERED, WEAK ROCK.
72.34	0.24	100	T2	100% MUDSTONE	GREY, UNWEATHERED, WEAK ROCK.
TOP OF MT. NICHOLAS MIDDLE 2 : 434.04 M R.L.					
72.42	0.08	100	A2	100% COAL, MID LUSTROUS - BRIGHT	BADLY BROKEN, BLACK, UNWEATHERED, WEAK ROCK.
72.46	0.04	100	A2	100% CARBONACEOUS MUDSTONE	BLACK, UNWEATHERED, VERY WEAK ROCK.
72.49	0.03	100	A2	100% MUDSTONE	BROWN, UNWEATHERED, WEAK ROCK.
72.52	0.03	100	A2	100% CARBONACEOUS MUDSTONE	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
72.60	0.08	100	A2	100% COAL, DULL WITH FEW BRIGHT BANDS	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
72.63	0.03	100	A2	100% COAL, INTERBANDED DULL AND BRIGHT	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.

DEPTH TO BASE M	THICKNESS M	REC %	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
*** CORE DESCRIPTION ***					
72.87	0.24	100	A2	75% COAL, MID LUSTROUS 25% COAL, DULL WITH NUMEROUS BRIGHT BANDS	BLACK. BLACK. WITH FRAGMENTS OF PYRITE, UNWEATHERED, MODERATELY WEAK ROCK.
72.88	0.01	100	A2	100% COAL, BRIGHT	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
73.00	0.12	100	A2	90% COAL, MID LUSTROUS - DULL 10% COAL, DULL WITH FEW BRIGHT BANDS	BLACK. BLACK. UNWEATHERED, MODERATELY WEAK ROCK.
73.01	0.01	100	A2	98% MUDSTONE 2% COAL	BANDS, GREY. STREAKS, BLACK. UNWEATHERED, MODERATELY WEAK ROCK, WITH CARBONACEOUS WISPS.
73.06	0.05	100	A2	100% COAL, HEAVY DULL	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
73.10	0.04	100	A2	100% COAL, DULL WITH NUMEROUS BRIGHT BANDS	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
73.20	0.10	100	A2	100% COAL, DULL	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
73.25	0.05	100	A2	100% COAL, DULL	BADLY BROKEN, BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
73.26	0.01	100	A2	100% COAL, BRIGHT	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
73.33	0.07	100	A2	100% COAL, DULL WITH FEW BRIGHT BANDS	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
73.47	0.14	100	A2	100% COAL, DULL WITH FEW BRIGHT BANDS	BADLY BROKEN, BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
73.51	0.04	100	A2	100% COAL, BRIGHT WITH NUMEROUS DULL BANDS	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
73.58	0.07	100	A2	100% COAL, DULL WITH FEW BRIGHT BANDS	BADLY BROKEN, BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
73.71	0.13	100	A2	75% COAL, MID LUSTROUS - DULL 25% COAL, DULL WITH NUMEROUS BRIGHT BANDS	BLACK. BLACK. UNWEATHERED, MODERATELY WEAK ROCK.
73.82	0.11	100	A2	100% COAL, INTERBANDED DULL AND BRIGHT	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
73.83	0.01	100	A2	100% MUDSTONE	CALCAREOUS, WHITE, UNWEATHERED, MODERATELY WEAK ROCK, WITH CARBONACEOUS WISPS.
73.86	0.03	100	A2	100% CARBONACEOUS MUDSTONE	BROWN, UNWEATHERED, MODERATELY WEAK ROCK.
73.88	0.02	100	A2	100% COAL, INTERBANDED DULL AND BRIGHT	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
74.22	0.34	100	A2	70% COAL, MID LUSTROUS - DULL 30% COAL, DULL WITH FEW BRIGHT BANDS	BLACK. BLACK. UNWEATHERED, MODERATELY WEAK ROCK.
74.42	0.20	100	A2	100% COAL, DULL WITH FEW BRIGHT BANDS	BADLY BROKEN, BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
74.43	0.01	100	A2	100% MUDSTONE	TUFFACEOUS, LIGHT BROWN, UNWEATHERED, MODERATELY WEAK ROCK, WITH CARBONACEOUS WISPS.
74.48	0.05	100	A2	100% COAL, MID LUSTROUS	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.

DEPTH TO BASE M	THICKNESS M	REC X	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
*** CORE DESCRIPTION ***					
74.65	0.17	100	A2	100% COAL, DULL WITH NUMEROUS BRIGHT BANDS	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
74.66	0.01	100	A2	100% COAL, BRIGHT	BANDS, BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
74.89	0.23	100	A2	80% COAL, DULL WITH FEW BRIGHT BANDS 20% COAL, INTERBANDED DULL AND BRIGHT	BLACK. BLACK. UNWEATHERED, MODERATELY WEAK ROCK.
74.90	0.01	100	A2	100% COAL, BRIGHT	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
74.93	0.03	100	A2	70% CARBONACEOUS MUDSTONE 30% CARBONACEOUS MUDSTONE	BLACK. CALCAREOUS, WHITE. UNWEATHERED, MODERATELY WEAK ROCK.
75.00	0.07	100	A2	90% COAL, DULL 10% COAL, DULL WITH FEW BRIGHT BANDS	BLACK. BLACK. UNWEATHERED, MODERATELY WEAK ROCK.
75.03	0.03	100	A2	100% COAL, INTERBANDED DULL AND BRIGHT	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
75.13	0.10	100	A2	65% COAL, DULL 25% COAL, HEAVY DULL 10% COAL, BRIGHT	BLACK. BLACK. BLACK. UNWEATHERED, MODERATELY WEAK ROCK.

BASE OF MT. NICHOLAS MIDDLE 2 : THICKNESS= 2.79 M; SAMPLED THICKNESS= 2.79 M

75.18	0.05	100	T3	100% MUDSTONE	CARBONACEOUS, DARK GREY, UNWEATHERED, MODERATELY WEAK ROCK.
75.38	0.20	100	T3	99% MUDSTONE 1% COAL	GREY. STREAKS, BLACK. UNWEATHERED, MODERATELY WEAK ROCK.
75.46	0.08	100	T3	100% MUDSTONE	SILTY, GREY, UNWEATHERED, MODERATELY WEAK ROCK, WITH PLANT REMAINS.
76.50	1.04	100		100% MUDSTONE	SILTY, GREY, UNWEATHERED, MODERATELY WEAK ROCK, WITH PLANT REMAINS.
*** CHIP DESCRIPTION ***					
140.50	64.00			100% SEDIMENTARY ROCK	
*** CORE DESCRIPTION ***					
141.25	0.75	100		100% SANDSTONE, MEDIUM GRAINED	MASSIVE, LIGHT GREY, UNWEATHERED, WEAK ROCK, WITH CARBONACEOUS WISPS, VERY WIDE JOINT SPACING, JOINTS DIP 85 DEG., TIGHT, PLANAR, SMOOTH DISCONTINUITIES.
141.29	0.04	100		100% SANDSTONE, MEDIUM GRAINED	BADLY BROKEN, LIGHT BROWN, UNWEATHERED, VERY WEAK ROCK.
141.37	0.08	100	T4	80% SANDSTONE 20% COAL	MED.-COARSE GRAINED, LIGHT GREY. FRAGMENTS, STREAKS, BLACK. UNWEATHERED, WEAK ROCK, WITH CARBONACEOUS WISPS.

DEPTH TO BASE M	THICKNESS M	REC X	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
*** CORE DESCRIPTION ***					
141.45	0.08	100	T4	100% SANDSTONE	MED.-FINE GRAINED, LIGHT GREY, UNWEATHERED, WEAK ROCK.
141.55	0.10	100	T4	75% SANDSTONE, MEDIUM GRAINED 25% COAL	LIGHT GREY. FRAGMENTS, STREAKS, BLACK. UNWEATHERED, WEAK ROCK, EROSIONAL BASAL CONTACT, BEDS DIP 20 DEG., WITH CARBONACEOUS WISPS.
TOP OF MT. NICHOLAS LOWER 2 : 364.83 M R.L.					
142.20	0.65	100	A3	50% COAL 30% COAL, DULL 20% COAL, MID LUSTROUS	BADLY BROKEN, BLACK. BADLY BROKEN, BLACK. BADLY BROKEN, BLACK. UNWEATHERED, VERY WEAK ROCK.
142.21	0.01	100	A3	100% MUDSTONE	BANDS, BADLY BROKEN, BROWN, UNWEATHERED, MODERATELY WEAK ROCK.
142.98	0.77	100	A3	60% COAL, MID LUSTROUS 25% COAL, DULL 15% COAL, DULL WITH FEW BRIGHT BANDS	BADLY BROKEN, BLACK. BADLY BROKEN, BLACK. BADLY BROKEN, BLACK. UNWEATHERED, WEAK ROCK, MODERATELY CLOSE JOINT SPACING, JOINTS DIP 60 DEG., TIGHT, PLANAR, SMOOTH DISCONTINUITIES, INFILLED WITH CALCITE.
143.01	0.03	100	A3	100% TONSTEIN	WHITE, UNWEATHERED, MODERATELY WEAK ROCK, WITH CARBONACEOUS WISPS.
144.13	1.12	100	A3	45% COAL, DULL 30% COAL, DULL WITH FEW BRIGHT BANDS 25% COAL, MID LUSTROUS	BADLY BROKEN, BLACK. BADLY BROKEN. BADLY BROKEN, BLACK. UNWEATHERED, MODERATELY WEAK ROCK.
144.25	0.12	100	A3	100% COAL, DULL WITH FEW BRIGHT BANDS	BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
144.45	0.20	100	A3	50% COAL, INTERBANDED DULL AND BRIGHT 45% COAL, MID LUSTROUS - BRIGHT 5% COAL, BRIGHT	BLACK. BLACK. BLACK. UNWEATHERED, MODERATELY WEAK ROCK.
BASE OF MT. NICHOLAS LOWER 2 : THICKNESS= 2.90 M; SAMPLED THICKNESS= 2.90 M					
144.76	0.31	100	T5	100% MUDSTONE	GREY, UNWEATHERED, VERY WEAK ROCK, WITH PLANT REMAINS.
145.53	0.77	100		100% MUDSTONE	SILTY, GREY, UNWEATHERED, WEAK ROCK, WITH PLANT REMAINS.
145.55	0.02	100		100% CLAYSTONE	GREY, UNWEATHERED, VERY WEAK ROCK.