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CORNWALL COAL MT NICHOLAS D.D.H. 24Location: Mt. NicholasLogged by: J.H. BryanAMG Co-ordinates: E 595 924.5Drilled by: Stacpoole Drilling

N 5399 743.3

Collar R.L.: 603.6 mCommenced: 1.4.85Total Depth: 207.15 mCompleted: 22.4.85

	<u>Estimated Thickness (m)</u>	<u>Estimated Depth to Base of Stratum (m)</u>	<u>Remarks:</u>
DOLERITE - scree (non core)	18.50	18.50	
SANDSTONE, grey, lithic, soft	3.00	21.50	
SILTSTONE, grey, hard	0.40	21.90	
CLAYSTONE, grey, soft at top, (core loss due to hard siltstone grinding away the soft claystone), becoming harder and carbonaceous with grey/green mudstone bands	5.33	27.23	
SILTSTONE, grey, hard, grading to sandstone, medium - becoming white and greasy towards base - tuffaceous?	5.32	32.55	
CLAYSTONE, dark grey to black, carbonaceous throughout with minor buff coloured soft claystone interbeds	2.775	35.325	
<u>COAL</u> , dull with minor bright bands	0.50	35.825 )	
CLAYSTONE, grey to brown, hard	0.08	35.905 )	PLY 1 Thickness: 1.315m

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	<u>Estimated Thickness (m)</u>	<u>Estimated Depth to Base of Stratum (m)</u>	<u>Remarks</u>
<u>COAL</u> , dull with minor bright bands	0.735	36.64	) PLY 1
SILTSTONE, grey, hard	0.22	36.86	
CLAYSTONE, dark grey to black (coaly in part) with interbeds of soft buff coloured claystone - ?tuffaceous	11.74	48.60	
MUDSTONE, grey, laminated in part, with occasional silty and sandy phases	6.49	55.09	
SILTSTONE/CLAYSTONE INTERBEDDED, with minor coaly bands - dark grey to black mostly with soft buff claystone in units up to 0.25m	5.34	60.43	
MUDSTONE, grey, weak - breaks up readily on exposure to air	3.68	64.11	
SANDSTONE, grey, lithic, fine grained at top, becoming coarser towards base, coaly wisps and bands are sporadic but up to 0.30m thick	59.89	124.00	
MUDSTONE, grey to grey-green - occasional carbonaceous wisps, irregular joints and fractures show slickensides	1.930	125.93	

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3.

CORNWALL COAL MT NICHOLAS D.D.H. 24

	<u>Estimated Thickness (m)</u>	<u>Estimated Depth to Base of Stratum (m)</u>	<u>Remarks</u>
CLAYSTONE, black, grey and green/grey	0.085	126.015	
<u>COAL</u> , dull	0.315	126.330 )	
		)	
MUDSTONE, grey, hard, laminated	0.060	126.390 )	
		)	
<u>COAL</u> , dull	0.715	127.105 )	
, bright	0.060	127.165 )	
, dull	0.070	127.235 )	
		)	
CLAYSTONE, grey with carbonaceous bands	0.105	127.340 )	BLUE ?LOWER SEAM
		)	
<u>COAL</u> , dull with minor bright bands	0.040	127.380 )	PLY 2
		)	
CLAYSTONE, grey, hard	0.015	127.395 )	Thickness 2.58m
		)	
<u>COAL</u> , dull (core broken and crushed in part	0.935	128.330 )	
		)	
CLAYSTONE, grey, hard	0.025	128.355 )	
		)	
<u>COAL</u> , dull	0.145	128.500 )	
, bright	0.025	128.525 )	
, dull	0.070	128.595 )	
		)	
CLAYSTONE, grey/brown, carbonaceous	0.020	128.615	
MUDSTONE, grey	0.180	128.795	

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CORNWALL COAL MT NICHOLAS D.D.H. 24

	<u>Estimated Thickness (m)</u>	<u>Estimated Depth to Base of Stratum (m)</u>	<u>Remarks</u>
SANDSTONE, grey/brown, medium, lithic, slightly carbonaceous	0.195	128.990	
MUDSTONE, grey with sandstone phases	0.335	129.325	
<u>COAL</u> , bright	0.025	129.350	
MUDSTONE, mid to dark grey and carbonaceous to coaly throughout	0.670	130.020	
MUDSTONE, grey with minor sandy phases	1.780	131.800	
SANDSTONE, grey, fine grained, lithic, hard	1.100	132.900	
MUDSTONE, grey, soft	0.055	132.955	)
CLAYSTONE, black, carbonaceous	0.030	132.985	)
<u>COAL</u> , dull and bright	0.025	133.010	)
CLAYSTONE, black, carbonaceous	0.470	133.480	) CORNWALL ) SEAM
<u>COAL</u> , dull	0.650	134.130	) (not ) sampled)
CLAYSTONE, brown - ?tuffaceous	0.045	134.175	) Thickness: ) 4.10m
<u>COAL</u> , dull	0.240	134.415	)
CLAYSTONE, coaly	0.065	134.480	)

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CORNWALL COAL MT NICHOLAS D.D.H. 24

	<u>Estimated Thickness (m)</u>	<u>Estimated Depth to Base of Stratum (m)</u>	<u>Remarks</u>
<u>COAL</u> , dull with lenticular grey claystone band 0.005m thick	0.400	134.880	)
CORE LOSS in coal	0.420	135.300	)
<u>COAL</u> , dull, core badly broken up, very difficult to drill due to high pressure!?	0.265	135.565	)
, dull with occasional bands of coaly claystone	0.920	136.485	)
MUDSTONE, grey/green	0.050	136.535	)
<u>COAL</u> , dull to stony	0.070	136.605	)
CLAYSTONE, mid grey to black, carbonaceous to coaly in part	0.395	137.000	)
MUDSTONE, grey to grey/green, soft	1.390	138.390	)
SILTSTONE, grey, hard with minor claystone bands	1.340	139.730	)
CLAYSTONE, grey, soft, laminated	0.430	140.160	)
CLAYSTONE, black, carbonaceous to coaly	0.520	140.680	)
MUDSTONE, grey/green, laminated	0.295	140.975	)

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SEAM

CORNWALL COAL MT NICHOLAS D.D.H. 24

	<u>Estimated Thickness (m)</u>	<u>Estimated Depth to Base of Stratum (m)</u>	<u>Remarks</u>
MUDSTONE, dark grey to black, carbonaceous	0.100	141.075	)
<u>COAL</u> , dull to stony	0.210	141.285	) CULLENSWOO COAL MEMBE
CLAYSTONE, brown, carbonaceous, soft, fissile	0.040	141.325	) Thickness: 0.575m
CLAYSTONE, black, carbonaceous, coaly in part	0.225	141.550	)
SANDSTONE, grey, lithic, hard, fine grained at top with some siltstone bands, mostly medium grained sandstone with some coarser and finer phases throughout	15.23	156.780	)
MUDSTONE, grey to green/grey	0.550	157.330	)
<u>COAL</u> , dull	0.030	157.360	)
MUDSTONE, grey/green, laminated in part with minor fine grained sandstone interbeds	4.290	161.650	)
SANDSTONE, grey, fine grained, thickly bedded	1.400	163.050	)
SANDSTONE, grey, medium grained, lithic with occasional fine grained phases	4.730	167.780	)

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CORNWALL COAL MT NICHOLAS D.D.H. 24

	<u>Estimated Thickness (m)</u>	<u>Estimated Depth to Base of Stratum (m)</u>	<u>Remarks</u>
CLAYSTONE, grey, soft	0.070	167.850	
<u>COAL</u> , dull	0.060	167.910	
CLAYSTONE, brown, soft, laminated	0.020	167.930	
<u>COAL</u> , dull	0.090	168.020	
CLAYSTONE, black, carbonaceous	0.070	168.090	
SANDSTONE, fine grained, grey to dark grey and mostly carbonaceous	1.620	169.710	
MUDSTONE, grey to grey/green, soft with sandstone phases up to 0.4m thick	4.410	174.120	
SILTSTONE, grey, hard (competent unit)	0.550	174.670	
MUDSTONE, grey/green, soft	0.750	175.420	
SANDSTONE, grey, medium, lithic	1.160	176.580	
SILTSTONE, dark grey, hard	0.065	176.645	
SANDSTONE, grey, fine grained	0.080	176.725	
MUDSTONE, mid grey, hard	0.120	176.845	
<u>COAL</u> , dull	0.215	177.060	)
CLAYSTONE, black, coaly, carbonaceous throughout	0.440	177.500	) PLY 3 Thickness 1.235m

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CORNWALL COAL MT NICHOLAS D.D.H. 24

	<u>Estimated Thickness (m)</u>	<u>Estimated Depth to Base of Stratum (m)</u>	<u>Remarks</u>
<u>COAL</u> , dull with grey claystone pebbles (0.03m across)	0.210	177.710	)
CLAYSTONE, black, coaly throughout	0.270	179.980	) PLY 3
<u>COAL</u> , dull, core broken in part	0.100	178.080	)
MUDSTONE, grey to grey/green, hard, grading to sandstone unit below	0.150	178.230	)
SANDSTONE, grey, lithic, medium grained	1.030	179.260	)
MUDSTONE, grey/green, hard, abundant plant debris on bedding planes becoming sandy towards base	2.700	181.960	)
SANDSTONE, grey, lithic, fine grained at top becoming coarser towards base	1.880	183.840	)
<u>COAL</u> , dull to stony	0.250	184.090	)
CLAYSTONE, brown, soft - ?tuffaceous	0.030	184.120	) FENTON SEAM
<u>COAL</u> , dull	0.290	184.410	) PLY 4
CLAYSTONE, brown to buff, soft, waxy, ?tuffaceous	0.055	184.465	) Thickness 1.52m
<u>COAL</u> , dull	0.420	184.885	)

CORNWALL COAL MT NICHOLAS D.D.H. 24

	<u>Estimated Thickness (m)</u>	<u>Estimated Depth to Base of Stratum (m)</u>	<u>Remarks</u>
CLAYSTONE, grey	0.020	184.905	) FENTON SEAM
<u>COAL</u> , dull	0.455	185.360	) PLY 4
SANDSTONE, grey, lithic, fine to medium grained	1.300	186.660	
MUDSTONE, grey, laminated in part, becoming sandy towards base	2.275	188.935	
SANDSTONE, grey, lithic, fine grained, hard, becoming coarser towards base sandstone becomes thinly bedded at base	1.335	190.270	
MUDSTONE, grey/green, laminated (weak 'strata parts readily along bedding planes)	0.350	190.620	
<u>COAL</u> , dull to stony	0.370	190.990	)
CLAYSTONE, light grey, hard	0.035	191.025	)
<u>COAL</u> , dull	0.165	191.190	)
, dull and bright	0.030	191.220	)
, dull	0.270	191.490	) PLY 5
CLAYSTONE, black, coaly	0.320	191.810	) Thickness 1.28m
<u>COAL</u> , dull	0.090	191.900	)

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CORNWALL COAL MT NICHOLAS D.D.H. 24

	<u>Estimated Thickness (m)</u>	<u>Estimated Depth to Base of Stratum (m)</u>	<u>Remarks</u>
SANDSTONE, grey, lithic, fine grained, hard, carbonaceous in part, sub-vertical joints	0.540	192.440	
MUDSTONE, grey, laminated	1.010	193.450	
SILTSTONE, grey, hard (reasonably competent strata)	0.850	194.300	
MUDSTONE, grey, laminated, weak	0.760	195.060	
<u>COAL</u> , dull	0.280	195.340	
CLAYSTONE, buff, waxy, soft	0.050	195.390	
<u>COAL</u> , dull to stony, fissile in part	0.240	195.630	
CLAYSTONE, white to cream coloured	0.060	195.690	
MUDSTONE, dark grey to black, coaly in part and carbonaceous throughout	1.520	197.210	
MUDSTONE, grey to grey/green	0.530	197.740	
<u>COAL</u> , dull	0.120	197.860	
CLAYSTONE, black, carbonaceous	0.045	197.905	
<u>COAL</u> , dull	0.065	197.970	
CLAYSTONE, grey to black, carbonaceous	0.090	198.060	

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CORNWALL COAL MT NICHOLAS D.D.H. 24

	<u>Estimated Thickness (m)</u>	<u>Estimated Depth to Base of Stratum (m)</u>	<u>Remarks</u>
<u>COAL</u> , dull to stony	0.240	198.300	
CLAYSTONE, black, carbonaceous	0.100	198.400	
SILTSTONE, grey, hard, grading to fine sandstone (competent strata)	0.720	199.120	
MUDSTONE, grey, soft, fissile	0.120	199.240 )	
		)	
<u>COAL</u> , dull to stony	0.170	199.410 )	
		)	
CLAYSTONE, brown, hard, composed of claystone pellets	0.030	199.440 )	PLY 6 Thickness 1.825m
		)	
<u>COAL</u> , dull	0.600	200.040 )	
, stony	0.580	200.620 )	
		)	
CLAYSTONE, grey to black, carbonaceous	0.085	200.705 )	
		)	
<u>COAL</u> , stony	0.240	200.945 )	
		)	
CLAYSTONE, black, carbonaceous	0.060	201.005	
<u>COAL</u> , dull	0.050	201.055	
CLAYSTONE, black, carbonaceous to coaly	0.080	201.135	
MUDSTONE, grey, irregular bedding	1.055	202.190	

CORNWALL COAL MT NICHOLAS D.D.H. 24

	<u>Estimated Thickness (m)</u>	<u>Estimated Depth to Base of Stratum (m)</u>	<u>Remarks</u>
SANDSTONE, grey, lithic, medium grained	0.720	202.910	
CLAYSTONE, mid brown, massive, distinctive unit, different from all claystones above - becomes grey/brown or grey at about 205.0m	3.120	206.030	
CLAYSTONE, black to dark brown, carbonaceous throughout and coaly in part	0.220	206.250	
MUDSTONE, grey, laminated, hard	0.900	207.150	

BASE OF HOLE