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CORNWALL COAL MT NICHOLAS D.D.H. 13

<u>Location:</u> Mt Nicholas	<u>Logged by:</u> J.H. Bryan
<u>AMG Co-ordinates:</u> E 594 091	<u>Drilled by:</u> Stacpoole Drilling
N 5400 830	
<u>Collar R.L.:</u> 582.2 m	<u>Commenced:</u> 10.11.84
<u>Total Depth:</u> 171.72 m	<u>Completed:</u> 19.11.84

	<u>Estimated Thickness (m)</u>	<u>Estimated Depth to Base of Stratum (m)</u>	<u>Remarks</u>
NON CORE (DOLERITE SCREE)	22.00	22.00	
MUDSTONE, grey with minor fine grained sandstone interbeds	3.72	25.72	
CLAYSTONE, buff coloured, very soft, swelling clays present resulting in rapid break-up	0.15	25.87	
MUDSTONE, black	0.02	25.89	
CLAYSTONE, buff coloured as shown	0.42	26.31	
MUDSTONE, black, coaly in part	0.21	26.52	
CLAYSTONE, dark brown, soft	0.17	26.69	
MUDSTONE, grey and grey/brown	0.14	26.83	
CLAYSTONE, buff, soft with swelling clays	1.00	27.83	
CLAYSTONE, dark brown	0.06	27.89	
MUDSTONE, black, carbonaceous	0.28	28.17	

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	<u>Estimated Thickness (m)</u>	<u>Estimated Depth to Base of Stratum (m)</u>	<u>Remarks</u>
CLAYSTONE, buff coloured, soft (as above)	0.150	28.320	
<u>COAL</u> , dull with minor bright bands	0.070	28.390	
MUDSTONE, black, carbonaceous	0.465	28.855	
<u>COAL</u> , dull to stony	0.390	29.245	
MUDSTONE, dark grey to black, carbonaceous in part with some mid brown claystone bands	1.780	31.025	
MUDSTONE, light to mid grey with minor sandstone interbeds, carbonaceous in part	5.815	36.840	
CLAYSTONE, buff, tuffaceous ? with swelling clays	0.310	37.150	
MUDSTONE, dark grey to black, carbonaceous	1.580	38.730	
CLAYSTONE, buff, tuffaceous ?	0.380	39.110	
CLAYSTONE, black, carbonaceous	0.150	39.260	
CLAYSTONE, light brown, ? tuffaceous	0.210	39.470	
CLAYSTONE, black, soft	0.040	39.510	
CLAYSTONE, brown, soft	0.045	39.555	

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CORNWALL COAL MT NICHOLAS D.D.H. 13

	<u>Estimated Thickness (m)</u>	<u>Estimated Depth to Base of Stratum (m)</u>	<u>Remarks</u>
MUDSTONE, grey to black, coaly in part	0.430	39.985	
<u>COAL</u> , dull	0.070	40.055	
CLAYSTONE, brown to grey	0.050	40.105	
MUDSTONE, black	0.080	40.185	
<u>COAL</u> , dull	0.170	40.355	
MUDSTONE, black	0.070	40.425	
MUDSTONE, grey	0.850	41.275	
<u>COAL</u> , dull and bright with minor carbonaceous claystone bands	0.100	41.375	
CLAYSTONE, carbonaceous, hard	0.030	41.405	
MUDSTONE, grey, soft except for minor fine grained sandstone or siltstone interbeds	3.530	44.935	
MUDSTONE, black	0.400	45.335	
<u>COAL</u> , dull and bright	0.160	45.495	
MUDSTONE, black and grey/brown claystone interbedded in units up to 0.20m (25% claystone/ 75% black mudstone)	3.920	49.415	Very poor roof

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CORNWALL COAL MT NICHOLAS D.D.H. 13

	<u>Estimated Thickness (m)</u>	<u>Estimated Depth to Base of Stratum (m)</u>	<u>Remarks</u>
<u>COAL</u> , dull	0.140	49.555)
, dull and bright	0.030	49.585)
, dull	0.210	49.795)
)
CLAYSTONE, brown, hard	0.030	49.825)
)
<u>COAL</u> , dull with minor bright bands	0.110	49.935	) PLY 1
)
CLAYSTONE, brown, hard	0.040	49.975	) Thickness
			) 0.88 m
<u>COAL</u> , dull	0.035	50.010)
)
CLAYSTONE, grey, hard	0.010	50.020)
)
<u>COAL</u> , dull with minor bright bands	0.275	50.295)
)
CLAYSTONE, dark grey/black, carbonaceous	0.170	50.465	
MUDSTONE, grey with minor fine grained sandstone interbeds	3.90	54.365	
SANDSTONE, grey, fine grained, lithic, becoming coarser towards base with coaly fragments and claystone bands up to 0.7 m thick	24.140	78.505	
CLAYSTONE, black, carbonaceous	0.060	78.565	
<u>COAL</u> , dull	0.120	78.685	
CLAYSTONE, grey, soft	0.220	78.905	

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CORNWALL COAL MT NICHOLAS D.D.H. 13

	<u>Estimated Thickness (m)</u>	<u>Estimated Depth to Base of Stratum (m)</u>	<u>Remarks</u>
<u>COAL</u> , dull	0.035	78.940	
MUDSTONE, dark grey at top, remainder grey to green/grey, soft, parts readily along bedding planes	2.030	80.970	
<u>COAL</u> , dull	0.065	81.035)
)
CLAYSTONE, brown, soft, carbonaceous in part - ? tuffaceous	0.050	81.085)
)
<u>COAL</u> , dull with minor bright bands	0.330	81.415)
)
CLAYSTONE, brown, soft, - ? tuffaceous	0.065	81.480)
)
<u>COAL</u> , dull with minor bright bands	0.040	81.520)
)
CLAYSTONE, grey/brown, soft	0.025	81.545)
)
<u>COAL</u> , dull	0.365	81.910	) BLUE
			) UPPER
			) SEAM
CLAYSTONE, brown, soft, - ? tuffaceous	0.090	82.000)
)
<u>COAL</u> , dull with minor bright bands	0.175	82.175	) Thickness
			) 3.025 m
)
CLAYSTONE, grey/brown, soft, ? tuffaceous	0.035	82.210)
)
<u>COAL</u> , dull with minor bright bands	0.145	82.355)
)
CLAYSTONE, grey, hard	0.020	82.375)
)
<u>COAL</u> , dull with minor bright bands	1.00	83.375)

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CORNWALL COAL MT NICHOLAS D.D.H. 13

	<u>Estimated Thickness (m)</u>	<u>Estimated Depth to Base of Stratum (m)</u>	<u>Remarks</u>
CLAYSTONE, grey, hard, grey/brown, carbonaceous	0.070	83.445)
<u>COAL</u> , dull	0.020	83.465)
CLAYSTONE, grey to buff, soft - with numerous coaly flecks	0.030	83.495)
CLAYSTONE, black, coaly in part	0.150	83.645	) BLUE UPPER SEAM
<u>COAL</u> , dull and bright	0.025	83.670	) Thickness
CLAYSTONE, grey	0.015	83.685	) 3.025 m
<u>COAL</u> , dull with minor bright bands	0.310	83.995)
CLAYSTONE, dark grey/black, carbonaceous in part with minor coaly wisps and penny bands	0.200	84.195)
SILTSTONE, grey, hard	0.205	84.400)
MUDSTONE, grey, soft, with some siltstone interbeds and minor carbonaceous bands - sporadic coaly inclusions, slickensided fracture planes towards top	5.165	89.565)
CLAYSTONE, black, carbonaceous	0.020	89.585)
<u>COAL</u> , dull and bright	0.015	89.600)

CORNWALL COAL MT NICHOLAS D.D.H. 13

	<u>Estimated Thickness (m)</u>	<u>Estimated Depth to Base of Stratum (m)</u>	<u>Remarks</u>
CLAYSTONE, black, fissile, carbonaceous	0.030	89.630	
CLAYSTONE, grey	0.020	89.650	
CLAYSTONE, black, coaly in part	0.030	89.680	
<u>COAL</u> , dull and bright	0.025	89.705	
CLAYSTONE, black, fissile	0.010	89.715	
<u>COAL</u> , dull with minor bright bands	0.215	89.930	
MUDSTONE, grey, soft with a band of buff coloured carbonate at 93.0 m, carbonaceous in part (very poor roof - breaks up very easily on exposure to air)	2.890	92.820	
<u>COAL</u> , dull	1.090	93.910)
MUDSTONE, black, carbonaceous	0.140	94.050)
CLAYSTONE, mid grey, hard	0.040	94.090)
<u>COAL</u> , dull	0.050	94.140	) BLUE
CLAYSTONE, dark grey, soft	0.125	94.265	) LOWER
<u>COAL</u> , dull with minor bright bands	0.040	94.305) SEAM
CLAYSTONE, dark grey to brown/black	0.150	94.455) Thickness:
) 2.275 m

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CORNWALL COAL MT NICHOLAS D.D.H. 13

	<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	0.450	94.905)
)
CLAYSTONE, grey, hard	0.007	94.912)
)
<u>COAL</u> , dull with minor bright bands	0.183	95.095)
CLAYSTONE, black to grey, coaly in part	0.190	95.285	
MUDSTONE, grey, soft	0.370	95.655	
<u>COAL</u> , dull	0.250	95.905	
CLAYSTONE, black, carbonaceous to coaly	0.035	95.940	
<u>COAL</u> , bright	0.015	95.955	
, dull	0.025	95.980	
MUDSTONE, grey (includes some siltstone bands up to 0.3m)	2.910	98.890	
MUDSTONE, black	0.060	98.950	
<u>COAL</u> , dull to stony	0.360	99.310	
CLAYSTONE, dark grey, soft, with carbonaceous and coaly phases	1.970	101.280	
MUDSTONE, grey, soft	1.800	103.080	
SANDSTONE, grey, lithic, fine grained	0.570	103.650	

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CORNWALL COAL MT NICHOLAS D.D.H. 13

	<u>Estimated Thickness (m)</u>	<u>Estimated Depth to Base of Stratum (m)</u>	<u>Remarks</u>
CLAYSTONE, grey, carbonaceous at base	0.100	103.750	
<u>COAL</u> , dull and bright	0.040	103.790	
CLAYSTONE, black, coaly in part	0.445	104.235	
<u>COAL</u> , dull and bright	0.060	104.295)	
, dull	0.445	104.740)	
, dull with minor bright bands	0.170	104.910)	CORNWALL
			) SEAM
CLAYSTONE, grey/brown, carbonaceous	0.040	104.950)	Thickness:
			) 0.885 m
<u>COAL</u> , dull with minor bright bands	0.170	105.120)	
CLAYSTONE, black, fissile, carbonaceous	0.050	105.170	
MUDSTONE, grey, soft, with hard grey siltstone interbeds	0.850	106.020	
MUDSTONE, grey	0.400	106.420	
SANDSTONE, medium, grey, lithic, occasional claystone bands and mudstone clasts	35.690	142.110	
MUDSTONE, grey to green/grey	3.410	145.520	
SANDSTONE, fine, grey, lithic	2.780	148.300	
MUDSTONE, grey to grey/green	0.270	148.570	

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CORNWALL COAL MT NICHOLAS D.D.H. 13

	<u>Estimated Thickness (m)</u>	<u>Estimated Depth to Base of Stratum (m)</u>	<u>Remarks</u>
CLAYSTONE, black to dark brown, coaly to carbonaceous	0.360	148.930	
SANDSTONE/MUDSTONE INTERBEDS, grey, soft mudstone and hard fine grained sandstone	8.140	157.070	
SANDSTONE, grey, fine grained, hard, (strong roof)	0.490	157.560	
MUDSTONE, grey to grey/green, soft	0.200	157.760	
SANDSTONE, grey, fine grained, hard - strong roof with occasional carbonaceous partings	0.560	158.320	
CLAYSTONE, grey (moderately strong unit)	0.050	158.370	
<u>COAL</u> , dull	0.250	158.620	
MUDSTONE, black, carbonaceous, hard	0.190	158.810	
<u>COAL</u> , dull	0.350	159.160)	
)	
CLAYSTONE, black, coaly	0.040	159.200)	
		)	FENTON
<u>COAL</u> , dull to stony	0.180	159.380)	SEAM
, dull and bright	0.280	159.660)	Thickness
, dull	0.265	159.925)	3.085m

CORNWALL COAL MT NICHOLAS D.D.H. 13

	<u>Estimated Thickness (m)</u>	<u>Estimated Depth to Base of Stratum (m)</u>	<u>Remarks</u>
CLAYSTONE, light grey, hard	0.020	159.945)	
)	
<u>COAL</u> , dull	0.070	160.015)	
)	
CLAYSTONE, light grey, hard	0.020	160.035)	
)	
<u>COAL</u> , dull	0.015	160.050)	
)	
CLAYSTONE, dark grey/black	0.025	160.075)	
		)	FENTON
<u>COAL</u> , dull	0.290	160.365)	SEAM
		)	Thickness
CLAYSTONE, light grey, hard	0.040	160.405)	3.085 m
)	
<u>COAL</u> , dull with minor bright bands	1.050	161.455)	
)	
MUDSTONE, grey/brown, hard at top grading to grey/green - becoming soft	5.165	166.620	
SANDSTONE, grey, fine grained at top, grading to medium at end of hole, massive	5.100	171.720	

BASE OF HOLE