

166

206167

CORNWALL COAL MT NICHOLAS D.D.H. 21Location: Mt NicholasLogged by: C.G. LancasterAMG Co-ordinates: E 592 956.05Drilled by: Stacpoole Drilling

N 5398 404.83

(Max Harvey)

Collar R.L.: 400.9 mCommenced:Total Depth: 80.0 mCompleted:

	<u>Estimated Thickness (m)</u>	<u>Estimated Depth to Base of Stratum (m)</u>	<u>Remarks</u>
NOT CORED: tricone roller to 3.0 m	3.000	3.000	NQ Core to 80.0m
SANDSTONE, brown at top to light grey, medium to coarse, lithic, weathered to 9 m, sporadic carbonaceous wisps and lenses, minor silty horizons, bedding thin to thick, subparallel, blocky to massive	32.900	35.900	
SILTSTONE, grey to dark grey interbeds, carbonaceous in part, numerous sandy phases, sandy at base	1.150	37.050	
<u>COAL</u> , stony to dull with minor bright bands, broken	0.280	37.330	
CLAYSTONE, dark brown, soft, puggy	0.065	37.395	
SILTSTONE, grey, fretted from exposure, possible fracture at base, core crumbly	2.940	40.335	

167

2.

206168

CORNWALL COAL MT NICHOLAS D.D.H. 21

	<u>Estimated Thickness (m)</u>	<u>Estimated Depth to Base of Stratum (m)</u>	<u>Remarks</u>
<u>COAL</u> , stony	0.070	40.405	)
			)
CORE LOSS: probably in broken coal and claystone	1.000	41.405	) Thickness 1.370m
			)
<u>COAL</u> , dull, completely broken	0.300	41.705	)
			)
SILTSTONE, grey, numerous sandy phases, flaggy	1.275	42.980	)
			)
<u>COAL</u> , stony, broken throughout	0.520	43.500	)
			)
CORE LOSS	0.450	43.950	)
			)
CLAYSTONE, speckled light brown	0.030	43.980	) FENTON SEAM
			)
<u>COAL</u> , stony, broken	0.070	44.050	)
			)
CLAYSTONE, cream	0.040	44.090	)
			)
<u>COAL</u> , stony to dull, broken	0.240	44.330	) Thickness 2.245 m
			)
CLAYSTONE, speckled brownish-grey	0.040	44.370	)
			)
<u>COAL</u> , stony to dull with minor bright bands	0.510	44.880	)
, dull with numerous bright bands	0.090	44.970	)
, stony	0.065	45.035	)
, dull with minor bright bands	0.190	45.225	)
			)
MUDSTONE, grey, flaggy, broken throughout from exposure, numerous fine sandy phases, grades to under- lying sandstone	2.900	48.125	)

168

206169

3.

CORNWALL COAL MT NICHOLAS D.D.H. 21

	<u>Estimated Thickness (m)</u>	<u>Estimated Depth to Base of Stratum (m)</u>	<u>Remarks</u>
SANDSTONE, light grey, fine, lithic, bedding laminated to very thin, subparallel, flaggy, carbonaceous remains on partings	1.360	49.485	
SANDSTONE, brown, medium with minor coarse phases, lithic, blocky to massive	2.490	51.975	
SANDSTONE, as for 1.360 m unit above	0.895	52.870	
CORE LOSS, in broken stony coal	0.130	53.000	
<u>COAL</u> , stony, completely broken, disseminated pyrite	0.570	53.570	
CLAYSTONE, dark grey to black, carbonaceous	0.070	53.640	
SANDSTONE, light grey, medium, lithic, silty at top, blocky to massive	5.050	58.690	
CLAYSTONE, black, carbonaceous broken	0.230	58.920	
CLAYSTONE, light brown, fissile	0.050	58.970	
CLAYSTONE, dark grey to black, mostly carbonaceous	0.180	59.150	
CORE LOSS	0.160	59.310	
CLAYSTONE, dark grey to black, mostly carbonaceous	0.640	59.950	

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	<u>Estimated Thickness (m)</u>	<u>Estimated Depth to Base of Stratum (m)</u>	<u>Remarks</u>
CLAYSTONE, brown, fissile	0.040	59.990	
CLAYSTONE, black, carbonaceous	0.620	60.610	
SILTSTONE, grey, sporadic fine sandy phases, flaggy	4.575	65.185	
CLAYSTONE, black, carbonaceous to coaly	0.065	65.250	
SILTSTONE, as for 4.575 m unit above	1.660	66.910	
SANDSTONE, light grey, medium, lithic, blocky to massive	5.030	71.940	
SILTSTONE, grey, laminated, fissile to flaggy, carbonaceous at base	0.500	72.440	
CLAYSTONE, black, carbonaceous, laminated at top, coaly wisps in centre, sandstone blebs at base	1.000	73.440	
SANDSTONE, grey to light grey, medium, lithic, silty and carbonaceous lenses at top, closed subvertical fractures throughout	6.560	80.000	

BASE OF HOLE