

CORNWALL COAL MT NICHOLAS D.D.H. 20

<u>Location:</u> Mt Nicholas	<u>Logged by:</u> C.G. Lancaster
<u>AMG Co-ordinates:</u> E 593 342.87 N 5398 621.5	<u>Drilled by:</u> Stacpoole Drilling
<u>Collar R.L.:</u> 443.1 m	<u>Commenced:</u> 22.11.84
<u>Total Depth:</u> 91.00 m	<u>Completed:</u> 5.12.84

	<u>Estimated Thickness (m)</u>	<u>Estimated Depth to Base of Stratum (m)</u>	<u>Remarks</u>
NOT CORED: tricone roller to 10.50m	10.500	10.500	NQ Core to 91.0 m
CORE LOSS, in broken dolerite	1.595	12.095	
<u>COAL</u> , stony to dull with minor bright bands, core broken	0.570	12.665)
)
CLAYSTONE, dark brown, waxy, compact	0.015	12.680)
)
<u>COAL</u> , stony, minor bright wisps	0.060	12.740)
)
CLAYSTONE, speckled dark grey, crumbly and fissile in part, mostly compact	0.060	12.800	) BLUE UPPER SEAM
)
<u>COAL</u> , dull with minor bright bands	0.200	13.000	) Thickness 2.925 m
)
CLAYSTONE, brown, speckled, carbonaceous remains in places, broken	0.025	13.025)
)
<u>COAL</u> , dull with minor bright bands to stony	0.145	13.170)

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CLAYSTONE, brown to black, carbonaceous in part	0.025	13.195)
<u>COAL</u> , dull, minor bright wisps	0.065	13.260)
CLAYSTONE, brown	0.010	13.270)
<u>COAL</u> , dull and bright, calcite on cleat , stony to dull with minor bright bands, sporadic very thin claystone bands, core broken in centre	0.050 0.400	13.320 13.720))))
, dull and bright	0.075	13.795)
, dull with numerous bright bands	0.420	14.215)
CLAYSTONE, dark grey to grey, grades to carbonaceous claystone at top and base, fissile and crumbly	0.110	14.325	) BLUE) UPPER) SEAM
CLAYSTONE, black, carbonaceous, sporadic coaly wisps, broken at base	0.095	14.420)
CLAYSTONE, grey, fissile and soft, numerous carbonaceous remains	0.100	14.520)
<u>COAL</u> , stony, minor bright wisps	0.205	14.725)
, dull with numerous bright bands, sporadic thin claystone partings	0.295	15.020)
SILTSTONE, grey to dark grey, fissile and crumbly, fine sandy phases in places, sporadic carbonaceous laminations	0.440	15.460	

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	<u>Estimated Thickness (m)</u>	<u>Estimated Depth to Base of Stratum (m)</u>	<u>Remarks</u>
CORE LOSS	0.540	16.000	
SILTSTONE, as for 0.440m unit above	0.080	16.080	
CORE LOSS, in broken and crumbly coal	0.300	16.380	
SILTSTONE, grey to dark grey, numerous plant remains, fissile and crumbly	0.670	17.050	
<u>COAL</u> , dull with minor bright bands	0.105	17.155	
SILTSTONE, grey, fretted, fissile and crumbly in part, plant remains throughout	1.370	18.525	
<u>COAL</u> , stony to dull with minor bright bands	0.110	18.635)
, dull with numerous bright bands, broken	0.130	18.765)
CLAYSTONE, carbonaceous, broken	0.100	18.865	) BLUE LOWER) SEAM
<u>COAL</u> , stony, minor bright wisps and laminae	0.860	19.725	) Thickness) 3.395 m
CLAYSTONE, dark grey, carbonaceous at top and base, compact	0.040	19.765)
<u>COAL</u> , dull with minor bright bands	0.205	19.970)

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	<u>Estimated Thickness (m)</u>	<u>Estimated Depth to Base of Stratum (m)</u>	<u>Remarks</u>
SILTSTONE, grey to dark grey, fretted, fissile in part, carbonaceous in places, plant remains throughout, coaly wisps at base	0.590	20.560))))
CLAYSTONE, white to cream, numerous carbonaceous wisps	0.025	20.585)))
<u>COAL</u> , stony to dull with minor bright bands, fine disseminated pyrite throughout	0.495	21.080)))
CLAYSTONE, carbonaceous	0.040	21.120	) BLUE LOWER SEAM)
<u>COAL</u> , stony to dull with minor bright bands, fine disseminated pyrite throughout	0.800	21.920)))
CLAYSTONE, dark brownish-grey to black, carbonaceous at top, thin coaly laminae at top, grades to underlying unit	0.220	22.140)
SILTSTONE, grey, fissile to flaggy	0.285	22.425)
SANDSTONE, light grey, fine at top grading to medium and coarse at base, lithic, bedding thin to thick, subparallel, blocky to massive, numerous irregular carbonaceous and coaly laminae and blebs at base	13.745	36.170)

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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, broken	0.040	36.210	
CLAYSTONE, black, carbonaceous	0.260	36.470	
<u>COAL</u> , stony, ironstaining and calcite on fracture surfaces, core broken throughout	0.570	37.040)))
SILTSTONE, grey, plant remains in places, slickensided basal contact dipping at 45°	0.065	37.105)))
CLAYSTONE, dark grey to black, carbonaceous in part	0.105	37.210	) CORNWALL) SEAM
<u>COAL</u> , dull and bright, broken	0.055	37.265	) Thickness) 2.865m
SILTSTONE, grey to dark grey, carbonaceous in part, numerous lighter claystone laminae	0.210	37.475)))
<u>COAL</u> , dull with minor bright bands	0.120	37.595))
CLAYSTONE, speckled yellowish brown, carbonaceous at top and base	0.025	37.620))
CLAYSTONE, black, carbonaceous	0.055	37.675))
<u>COAL</u> , stony to dull with minor bright bands, sporadic thin claystone laminae, broken in places , dull with numerous bright bands	1.470 0.190	39.145 39.335))))

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	<u>Estimated Thickness (m)</u>	<u>Estimated Depth to Base of Stratum (m)</u>	<u>Remarks</u>
CLAYSTONE, dark grey to black, carbonaceous and coaly bands throughout	0.220	39.555	
SILTSTONE, grey, fretted	0.170	39.725	
CLAYSTONE, grey to black, carbonaceous to coaly in part	0.110	39.835	
SILTSTONE, grey, fretted and broken throughout, grades to underlying unit	2.025	41.860	
SANDSTONE, light grey, fine to very fine, lithic, numerous silty laminae, bedding laminated to thin, wavy to subparallel, flaggy	2.380	44.240	
CLAYSTONE, black, carbonaceous to coaly, sporadic bright lenses	0.205	44.445	
SANDSTONE, as for 2.380 m unit above	2.515	46.960	
CLAYSTONE, dark grey, broken	0.240	47.200	
<u>COAL</u> , dull, broken	0.450	47.650	
SANDSTONE, light grey, fine at top to medium and coarse, lithic, claystone at top 0.100 m	2.595	50.245	
CLAYSTONE, off-white, puggy	0.070	50.315	

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SANDSTONE, light grey, medium to coarse, lithic, minor carbonaceous wisps, bedding thin to very thick, subparallel, blocky to massive	17.195	67.510	
SILTSTONE, grey, bedding laminated to very thin, parallel to wavy, sporadic carbonaceous remains, mostly slabby	2.205	69.715	
SANDSTONE, light grey, medium, lithic, broken 73m - 74 m, mostly blocky to massive	3.155	72.870	
CORE LOSS: probably in broken sandstone	0.930	73.800	
SANDSTONE, as for 3.155 m unit above	2.340	76.140	
SILTSTONE, dark brownish grey, carbonaceous in part, soft and crumbly	0.560	76.700	
CARBONACEOUS SHALE AND SANDSTONE LAMINITE: ratio 70:30. Carbonaceous shale, black, plant remains on partings; sandstone, grey, medium, lithic, bedding wavy, fissile to flaggy	2.645	79.345	
SANDSTONE, light grey, fine to medium, lithic, sporadic plant remains on partings	1.170	80.515	

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	<u>Estimated Thickness (m)</u>	<u>Estimated Depth to Base of Stratum (m)</u>	<u>Remarks</u>
MUDSTONE, light grey to grey, sporadic carbonaceous lenses and wisps, soft and silty in places, flaggy	2.670	83.185	
<u>COAL</u> , dull with minor bright bands, broken in part	0.680	83.865	) PLY 8
CLAYSTONE, dark brown to black, carbonaceous	0.060	83.925	) ) MILLBROOK
<u>COAL</u> , stony	0.085	84.010	) COAL) MEMBER
CLAYSTONE, interbanded grey, dark brown and black, mostly carbonaceous minor bright coaly laminae	0.430	84.440	) ) ) PLY 9
<u>COAL</u> , stony	0.195	84.635)
, dull and bright	0.110	84.745))
CLAYSTONE, speckled brown	0.015	84.760))
<u>COAL</u> , dull with minor bright bands	0.030	84.790)
SILTSTONE, grey to dark grey, carbonaceous at base, laminated to thin bedding, flaggy to slabby	2.235	87.025	
<u>COAL</u> , stony	0.140	87.165) PLY 10
, dull	0.290	87.455)

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CLAYSTONE, speckled greyish brown	0.020	87.475)
)
<u>COAL</u> , dull	0.035	87.510)
)
CLAYSTONE, speckled cream to brown, soft and puggy in part	0.090	87.600) FENTON) SEAM
)
<u>COAL</u> , dull	0.165	87.765)
, dull with minor bright bands	0.180	87.945	) PLY 10
)
CLAYSTONE, brownish grey	0.035	87.980)
)
<u>COAL</u> , dull with minor bright bands	0.380	88.360)
, stony	0.135	88.495)
, dull with minor bright bands	0.180	88.675)
, dull with numerous bright bands	0.190	88.865)
SANDSTONE, light grey, fine, lithic, sporadic coaly wisps and laminae, numerous silty phases, bedding laminated to thin, subparallel to wavy, slabby	2.135	91.000	

BASE OF HOLE