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CORNWALL COAL MT NICHOLAS D.D.H. 22

<u>Location:</u>		<u>Logged by:</u>	J.H. Bryan
<u>AMG Co-ordinates:</u>	E 592 319.1	<u>Drilled by:</u>	Stacpoole Drilling
	N 5399 451.8		
<u>Collar R.L.:</u>	612.1 m	<u>Commenced:</u>	
<u>Total Depth:</u>	242.0 m	<u>Completed:</u>	7.1.85

	<u>Estimated Thickness (m)</u>	<u>Estimated Depth to Base of Stratum (m)</u>	<u>Remarks</u>
DOLERITE - scree (broken and slightly weathered throughout - core not retained. Water loss in scree - frequent cementing required to enable drilling from 49.5 to 69.5 m	69.500	69.500	
MUDSTONE, green/grey with numerous joints and fractures - breaks up on exposure to air	4.540	74.040	
MUDSTONE, grey, hard	1.180	75.220	
SANDSTONE, grey, medium grained, lithic, massive - with occasional thin bands of black mudstone pellets and some coaly claystone lenses, sandstone becoming clayey towards base and more friable	16.410	91.630	
MUDSTONE, grey and grey/green with some laminite phases and occasional hard siltstone bands	6.810	98.440	

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	<u>Estimated Thickness (m)</u>	<u>Estimated Depth to Base of Stratum (m)</u>	<u>Remarks</u>
SILTSTONE, grey, hard, with numerous dark grey carbonaceous bands - becoming coarser towards the base, gradational into the sandstone below	6.320	104.760	
SANDSTONE, grey, lithic, medium grained, with sporadic coaly wisps and lenses	5.080	109.840	
<u>COAL</u> , dull	0.020	109.860	
MUDSTONE, dark grey, core broken	0.160	110.020	
MUDSTONE, grey, hard, with clayey sandstone interbeds	3.200	113.220	
CLAYSTONE, black, coaly in part	0.180	113.400	
CLAYSTONE, buff, soft	0.030	113.430	
<u>COAL</u> , dull to stony	0.100	113.530	
MUDSTONE, grey/green, soft	0.225	113.755	
CLAYSTONE, black, carbonaceous	0.135	113.890	
MUDSTONE, grey, soft with some dark grey laminite bands	3.420	117.310	
CLAYSTONE, grey/brown, hard interbedded with black carbonaceous mudstone and grey/buff claystones in units up to 0.3 m	1.970	119.280	

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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	0.020	119.300	
MUDSTONE, black, carbonaceous	0.600	119.900	
MUDSTONE, grey, hard	0.590	120.490	
CLAYSTONE, buff, hard	0.740	121.230	
MUDSTONE, black (coaly in part) with grey and grey/brown claystone interbeds	5.100	126.330	
<u>COAL</u> , dull	0.170	126.500	
CLAYSTONE, black, carbonaceous	0.070	126.570	
CLAYSTONE, grey/brown	0.320	126.890	
CLAYSTONE, black, carbonaceous	0.040	126.930	
<u>COAL</u> , dull	0.205	127.135	
CLAYSTONE, black, carbonaceous to coaly	0.075	127.210	
<u>COAL</u> , dull with minor bright bands	0.330	127.540	
MUDSTONE, black, carbonaceous (coaly in part) with interbeds of buff claystone	7.020	134.560	

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	<u>Estimated Thickness</u> (m)	<u>Estimated Depth to Base of Stratum</u> (m)	<u>Remarks</u>
MUDSTONE, light to mid grey, laminated in part, with minor carbonaceous claystone bands and occasional buff coloured claystone interbeds, claystone pellets abundant in lower 0.3m of unit	7.430	141.990	
CLAYSTONE, black, carbonaceous	0.440	142.430	
<u>COAL</u> , dull	0.240	142.670	
CLAYSTONE, black and coaly stone	0.420	143.090	
MUDSTONE, light to mid grey	0.880	143.970	
<u>COAL</u> , dull with minor bright bands	0.100	144.070	
MUDSTONE, grey, laminated in part	2.090	146.160	
SANDSTONE, grey, fine grained, lithic	0.220	146.380	
MUDSTONE, grey	1.310	147.690	
CLAYSTONE, black, carbonaceous	0.105	147.795	
<u>COAL</u> , dull to stony	0.230	148.025	
CLAYSTONE, buff to brown, soft, core loss	0.245	148.270	

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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 to stony with minor claystone bands	0.440	148.710	
MUDSTONE, black, carbonaceous with soft brown ? tuffaceous claystone interbeds up to 0.3m thick (core loss - grey mudstone as below)	1.790	150.500	
MUDSTONE, grey	1.980	152.480	
CLAYSTONE, black with some light grey bands	0.325	152.805	
<u>COAL</u> , dull to stony	0.160	152.965	
CLAYSTONE, black, carbonaceous	0.080	153.045	
CLAYSTONE, grey/brown, hard, ? tuffaceous	0.160	153.205	
<u>COAL</u> , dull	0.090	153.295	
CLAYSTONE, black, carbonaceous	0.120	153.415	
CLAYSTONE, grey, hard	0.035	153.45	
<u>COAL</u> , dull to stony	0.025	153.475	
CLAYSTONE, grey, hard	0.050	153.525	
CLAYSTONE, black, carbonaceous with occasional coaly bands	0.360	153.885	

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	<u>Estimated Thickness (m)</u>	<u>Estimated Depth to Base of Stratum (m)</u>	<u>Remarks</u>
CLAYSTONE, dark grey, waxy	0.155	154.040	
MUDSTONE, grey to green/grey, hard	0.960	155.000	
SANDSTONE, grey, fine grained, lithic	0.300	155.300	
SILTSTONE, grey, hard, cross bedded, grading to fine sandstone	3.330	158.630	
SANDSTONE, grey, fine grained, lithic, hard	4.130	162.760	
SANDSTONE, grey, lithic, medium grained with occasional coaly inclusions and mudstone clasts	13.860	176.620	
CORE LOSS (core loss 1.38m possibly in coal, one piece broken coal core)	1.380	178.000	? BLUE UPPER
MUDSTONE, grey - interbedded siltstone and claystone with numerous partings and fractures, breaks up on exposure to air	6.270	184.270	
SANDSTONE, medium grained, grey, lithic, massive	4.000	188.270	
<u>COAL</u> , dull	0.015	188.285	
MUDSTONE, grey, soft, broken up on exposure to air	0.090	188.375	

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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	0.040	188.415	
SANDSTONE, grey, lithic, medium grained	0.140	188.555	
CLAYSTONE, coaly	0.035	188.590	
MUDSTONE, grey, with several coaly or carbonaceous bands	0.500	189.090	
CLAYSTONE, black, carbonaceous with minor coaly bands	0.120	189.210	
CLAYSTONE, grey with carbonaceous interbeds	0.140	189.350	
<u>COAL</u> , dull with minor bright bands	0.150	189.500	
, dull	0.600	190.100	
CLAYSTONE, mid grey to black, carbonaceous	0.310	190.410	
MUDSTONE, grey	0.170	190.580	
<u>COAL</u> , dull	0.015	190.595	
MUDSTONE, soft, mid grey with occasional dark grey carbonaceous bands	0.560	191.155	
SANDSTONE, grey, lithic, medium grained with numerous coaly inclusions	1.705	192.860	

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	<u>Estimated Thickness (m)</u>	<u>Estimated Depth to Base of Stratum (m)</u>	<u>Remarks</u>
MUDSTONE, grey/green, soft - becoming carbonaceous towards base	0.110	192.970	
CLAYSTONE, black, coaly in part - carbonaceous throughout	0.165	193.135	
<u>COAL</u> , dull	0.185	193.320	
CLAYSTONE, mid to dark grey, carbonaceous	0.120	193.440	
<u>COAL</u> , dull	0.550	193.990	
CLAYSTONE, mid grey/brown, carbonaceous	0.150	194.140	
SILTSTONE, grey, hard	0.610	194.750	
CLAYSTONE, grey/brown, carbonaceous in part	0.550	195.300	
SANDSTONE, grey, lithic, fine grained at top, becoming medium grained toward base, coaly wisps and mudstone clasts occur towards base	11.620	206.920	
<u>COAL</u> , dull	0.085	207.005	)
CLAYSTONE, black, carbonaceous	0.030	207.035	)
<u>COAL</u> , dull	0.020	207.055	)
			) CORNWALL SEAM Thickness: 0.465m

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	<u>Estimated Thickness (m)</u>	<u>Estimated Depth to Base of Stratum (m)</u>	<u>Remarks</u>
CLAYSTONE, dark brown, carbonaceous	0.050	207.105 )	
		)	
CLAYSTONE, grey/brown, soft, waxy	0.080	207.185 )	CORNWALL
		)	
<u>COAL</u> , dull	0.105	207.290 )	SEAM
, dull with numerous bright		)	
bands	0.095	207.385 )	
CLAYSTONE, dark brown, carbonaceous	0.050	207.435	
CLAYSTONE, grey/brown, waxy, breaks up on exposure to air	0.195	207.630	
SILTSTONE/CLAYSTONE INTERBEDDED, ratio 70:30. Grey to grey/green, siltstone grading to fine lithic sandstone towards base	3.320	210.950	
SANDSTONE, grey, lithic, medium grained, massive - occasional coaly partings and mudstone clasts	31.050	242.000	

BASE OF HOLE

(Hole unable to be  
continued after rods  
broken and barrel  
unable to be recovered)