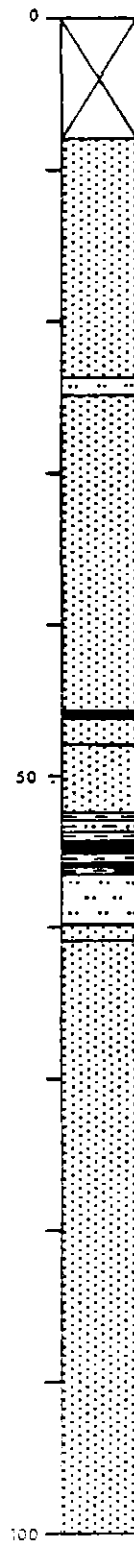


CORNWALL COAL COMPANY N.L.

St Pauls River

DDH 9

740008



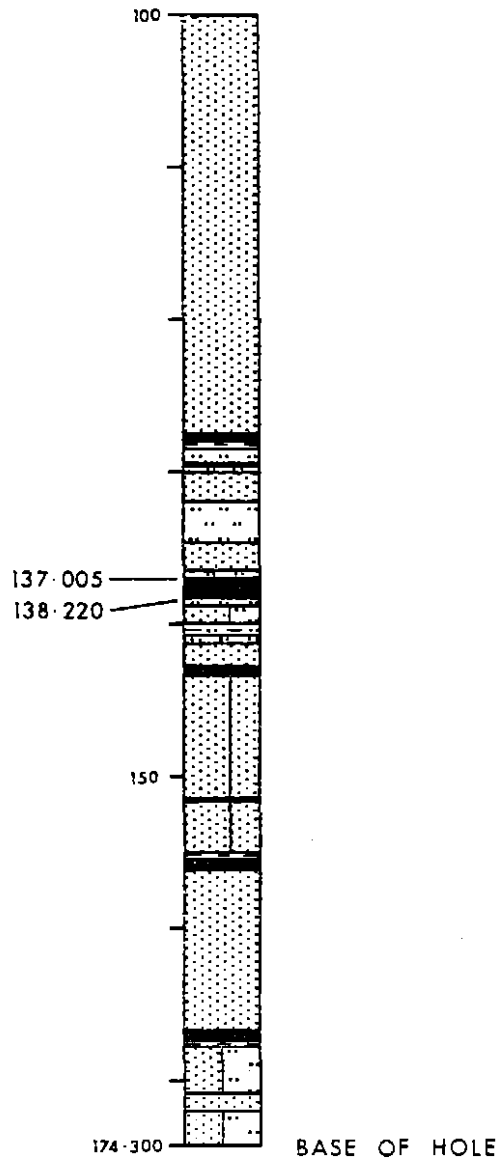
5 cm

CORNWALL COAL COMPANY N.L.

St Pauls River

DDH 9

740009



5 cm

CORNWALL COAL ST PAULS RIVER DDH 9Location: Mt St John SouthLogged by: C.G. LancasterAMG Co-ordinates: E 586 400Drilled by: Stacpoole Drilling

N 5370 000

Collar R.L.: 340 m approx.Commenced: 24.10.84Total Depth: 174.300 mCompleted: 30.10.84

	<u>Estimated Thickness (m)</u>	<u>Estimated Depth to Base of Stratum (m)</u>	<u>Remarks</u>
NOT CORED:open hole to 7.90 m	7.900	7.900	
SANDSTONE, light grey, mostly medium to coarse with minor very coarse phases and bands, lithic, numerous carbonaceous and coaly partings and laminae at top some planar others wavy, bedding very thin to thick, parallel to wavy, fissile to blocky, broken in places (thinner breaks may be related to weathering), sorting moderate to good	15.810	23.710	
SILTSTONE, grey to dark grey, sporadic irregular coaly laminae, carbonaceous and plant remains throughout, relatively soft, weathering induced dessication features, friable, grades to sandstone at base, bedding wavy to irregular	1.080	24.790	

CORNWALL COAL ST PAULS RIVER DDH 9

740011

	<u>Estimated Thickness (m)</u>	<u>Estimated Depth to Base of Stratum (m)</u>	<u>Remarks</u>
SANDSTONE, light grey, medium to coarse, lithic, minor silty horizons, sporadic irregular carbonaceous and coaly wisps and blebs and planar laminae, several well rounded pebbles in top 0.050 m, bedding thin to thick, massive in basal 6 m, parallel to wavy, mostly blocky with some slabby and flaggy sections in the centre (possibly weathering induced), abrupt basal contact, sorting mostly good	21.075	45.865	
<u>COAL</u> , dull with minor bright bands, sporadic calcite veinlets	0.235	46.100	
SANDSTONE, grey, fine, numerous very fine and silty interbeds, lithic, abundant silty matrix, moderately soft, core broken and fretted (weathering), bedding laminated to very thin, parallel to wavy, fissile and flaggy	1.850	47.950	
SANDSTONE, light grey to grey, fine to medium, lithic, grades to coarse at base, siltstone band 0.230 m thick in centre, core surface fretted and soft, bedding thin to medium, parallel to sub-parallel, blocky to massive	4.280	52.230	

CORNWALL COAL ST PAULS RIVER DDH 9

740012

	<u>Estimated Thickness</u> (m)	<u>Estimated Depth to Base of Stratum</u> (m)	<u>Remarks</u>
SANDSTONE, light grey, fine to very fine, numerous silty laminae, lithic, soft and fretted (weathering), sporadic carbonaceous partings, bedding laminated, wavy to sub-parallel	0.440	52.670	
CLAYSTONE, brownish-grey, completely fretted and friable, grades to underlying unit	0.300	52.970	
SILTSTONE, grey, soft and friable, fretted at top 0.500 m, minor very fine sandy phases, laminated, grades to underlying unit	0.740	53.710	
CLAYSTONE, dark brown to black, carbonaceous in part, soft and friable, grades to underlying unit	0.170	53.880	
CLAYSTONE, grey, friable and crumbly, soft (weathering), core completely shattered in places	0.510	54.390	
<u>COAL</u> , dull to stony, soft puggy claystone band (0.015 m thick)			
at top	0.375	54.765	
, bright	0.025	54.790	
, stony to dull with minor bright bands, thin carbonaceous claystone laminae at base	0.110	54.900	

CORNWALL COAL ST PAULS RIVER DDH 9

740013

	<u>Estimated Thickness (m)</u>	<u>Estimated Depth to Base of Stratum (m)</u>	<u>Remarks</u>
CLAYSTONE, grey to black, carbonaceous in part, soft and crumbly at top half	0.080	54.980	
<u>COAL</u> , dull with minor bright bands , bright	0.040 0.035	55.020 55.055	
CLAYSTONE, dark grey to black, carbonaceous in part, thin coaly wisps, soft, crumbly	0.055	55.110	
CLAYSTONE, grey to black, carbonaceous bands in places, soft and completely crumbly, friable (weathering)	0.610	55.720	
<u>COAL</u> , dull with minor bright bands	0.085	55.805	
CLAYSTONE, speckled grey-brown	0.020	55.825	
<u>COAL</u> , stony to dull with minor bright bands, broken in basal half	0.130	55.955	
CLAYSTONE AND <u>COAL</u> INTERBEDDED, ratio 70:30. Claystone, dark grey- black, carbonaceous in part; coal, dull, core broken and friable in places	0.440	56.395	
SILTSTONE, grey, soft, crumbly and friable, very fine sandy phases at base	3.370	59.765	

740014

CORNWALL COAL ST PAULS RIVER DDH 9

	<u>Estimated Thickness (m)</u>	<u>Estimated Depth to Base of Stratum (m)</u>	<u>Remarks</u>
SANDSTONE, light grey to grey, fine to very fine, lithic, numerous silty phases at top, bedding laminated to thin, wavy to parallel, soft and crumbly	1.125	60.890	
SANDSTONE, light grey, medium to coarse, lithic, minor irregular siltstone and carbonaceous inclusions particularly 86.00 - 92.50 m and 116.50 - 118.00 m, bedding mostly massive, wavy to parallel, splitting mostly massive with some sporadic crumbly flaggy sections at 86.00 - 92.50 m, hard and competent basal 10.00 m	66.620	127.510	
<u>COAL</u> , dull with minor bright bands, stony at top	0.090	127.600	
CLAYSTONE, dark grey to black, carbonaceous in part, moderately hard	0.225	127.825	
<u>COAL</u> , dull to stony	0.065	127.890	
CLAYSTONE, black, carbonaceous to coaly	0.040	127.930	
<u>COAL</u> , dull to stony	0.265	128.195	
SANDSTONE, light grey, medium, lithic	0.035	128.230	

740015

CORNWALL COAL ST PAULS RIVER DDH 9

	<u>Estimated Thickness (m)</u>	<u>Estimated Depth to Base of Stratum (m)</u>	<u>Remarks</u>
CLAYSTONE, dark grey to black, carbonaceous to coaly in part at top and base	0.290	128.520	
CLAYSTONE, grey, carbonaceous at base	0.080	128.600	
<u>COAL</u> , stony to dull with minor bright bands	0.035	128.635	
SILTSTONE, grey, plant remains on partings, core broken and crumbly near base, fissile to flaggy	0.890	129.525	
<u>COAL</u> , dull, broken	0.130	129.655	
SILTSTONE, grey, numerous carbonaceous remains on laminations, fissile at top, sandy at base, grades to underlying unit	0.515	130.170	
SANDSTONE, light grey, fine at top, grading to medium at base, lithic, sporadic irregular carbonaceous and coaly inclusions	1.880	132.050	
CORE LOSS	0.300	132.350	
SILTSTONE, grey to dark grey, carbonaceous in places, numerous fine sandy phases, core broken in places, minor irregular coaly laminae	2.420	134.770	

740016

CORNWALL COAL ST PAULS RIVER DDH 9

	<u>Estimated Thickness (m)</u>	<u>Estimated Depth to Base of Stratum (m)</u>	<u>Remarks</u>
SANDSTONE, light grey, fine, lithic, sporadic silty phases and laminae, bedding very thin to medium, wavy to subparallel, slabby to blocky	1.765	136.535	
SILTSTONE, grey, minor subhorizontal slickensided surfaces, carbonaceous parting(0.020 m thick) near base, flaggy to fissile and crumbly at base, slickensided surface 45° dip 0.100 m from base	0.470	137.005	
<u>COAL</u> , dull	0.020	137.025	
CLAYSTONE, brown, fissile	0.020	137.045	
<u>COAL</u> , stony to dull, slickensided surface near top	0.530	137.575)
CLAYSTONE, speckled brown	0.015	137.590)
<u>COAL</u> , dull	0.025	137.615)
CLAYSTONE, speckled brown	0.015	137.630) PLY 1
<u>COAL</u> , dull with minor bright bands , mainly dull	0.050 0.130	137.680 137.810) 1.175m
, dull with minor bright bands	0.115	137.925)
, dull	0.105	138.030)
, dull with numerous bright bands, broken in part	0.080	138.110)
, dull	0.080	138.190)
, dull with numerous bright bands	0.030	138.220)

CORNWALL COAL ST PAULS RIVER DDH 9

740017

	<u>Estimated Thickness (m)</u>	<u>Estimated Depth to Base of Stratum (m)</u>	<u>Remarks</u>
CLAYSTONE, black, carbonaceous	0.095	138.315	
SILTSTONE, grey to dark grey, carbonaceous near base, fissile and crumbly, grades to underlying unit	0.455	138.770	
SANDSTONE AND SILTSTONE LAMINITE, ratio 70:30. Sandstone, light grey, fine, lithic; siltstone, grey, bedding parallel to subparallel, planar and smooth, bioturbation in places, minor small scale faulting and other small scale sedimentary deformation	1.300	140.070	
SILTSTONE AND CARBONACEOUS SHALE LAMINITE: ratio 70:30. Siltstone, grey to dark grey; carbonaceous shale, black, bedding wavy to subparallel, fissile in places	0.830	140.900	
SILTSTONE, grey, grades to very fine sandstone at base, minor bioturbation, grades to underlying unit	0.485	141.385	
SANDSTONE, light grey to grey, fine to very fine, lithic, numerous silty phases, bedding laminated to thin, wavy to subparallel, flaggy, carbonaceous in part at base	1.475	142.860	

CORNWALL COAL ST PAULS RIVER DDH 9

740018

	<u>Estimated Thickness</u> (m)	<u>Estimated Depth to Base of Stratum</u> (m)	<u>Remarks</u>
CLAYSTONE, coaly	0.070	142.930	
<u>COAL</u> , stony	0.100	143.030	
, dull with minor bright bands	0.300	143.330	
SANDSTONE AND SILTSTONE INTERBEDDED, ratio 60:40. Sandstone, light grey to grey, fine to very fine, lithic; siltstone, grey to dark grey, carbonaceous near base of unit, bedding laminated to thin, wavy to subparallel, mostly flaggy at top to slabby at base	8.200	151.530	
<u>COAL</u> , stony to dull with minor bright bands	0.150	151.680	
SANDSTONE AND SILTSTONE INTERBEDED, ratio as for 8.200 m unit above	3.515	155.195	
CLAYSTONE, grey to dark grey, carbonaceous in part, numerous siltstone nodules	0.335	155.530	
CLAYSTONE, brown to dark brown	0.035	155.565	
CLAYSTONE, carbonaceous to coaly	0.075	155.640	
CLAYSTONE, brown	0.015	155.655	
<u>COAL</u> , dull with minor bright bands, broken	0.150	155.805	

CORNWALL COAL ST PAULS RIVER DDH 9

740019

	<u>Estimated Thickness (m)</u>	<u>Estimated Depth to Base of Stratum (m)</u>	<u>Remarks</u>
<u>COAL</u> , dull with numerous bright bands, broken	0.280	156.085	
, dull with minor bright bands	0.195	156.280	
SILTSTONE, grey, grades to underlying unit, flaggy	0.380	156.660	
SANDSTONE, light grey, grading from fine at top to coarse at base, lithic, bedding thin to thick, sub- parallel, thin laminite section in centre, sorting very good, blocky to massive	10.085	166.745	
<u>COAL</u> , dull	0.670	167.415	
CLAYSTONE, speckled dark brown to brown, carbonaceous at top	0.040	167.455	
CLAYSTONE, carbonaceous to coaly	0.180	167.635	
SANDSTONE AND SILTSTONE LAMINITE, ratio 50:50. Sandstone, light grey to grey, fine to medium, lithic; siltstone, grey to dark grey, bedding subparallel to wavy, subplanar, flaggy to slabby	2.600	170.235	
SANDSTONE, light grey, medium to coarse, lithic, numerous irregular siltstone lenticles and wisps	0.225	170.460	

CORNWALL COAL ST PAULS RIVER DDH 9

740020

	<u>Estimated Thickness (m)</u>	<u>Estimated Depth to Base of Stratum (m)</u>	<u>Remarks</u>
SANDSTONE AND SILTSTONE LAMINITE, as for 2.600 m unit above	0.320	170.780	
SANDSTONE, light grey, coarse, lithic, bedding thin, subparallel, blocky to massive	1.180	171.960	
SANDSTONE AND SILTSTONE LAMINITE, ratio 50:50. Sandstone, light grey to grey, fine to coarse, lithic; siltstone, grey to dark grey, carbonaceous in part, bedding wavy to subparallel, flaggy to slabby	2.340	174.300	

BASE OF HOLE