

SAMPLE LOG

DRILL HOLE: Devlin # 48
 PROP. OWNER: William Devlin
 DRILL CONTRACTOR: V.W.B.
 DRILL OPERATOR: Bill Billman
 DATE STARTED: 2-28-80
 CASING LEFT IN HOLE:

LOC:

 LOGGED BY: MRG
 ELEV: 837.74
 DATE COMPLETED: 3-4-80
 TOTAL DEPTH: 301'

30	-	40	<u>Limestone</u> , tan and grey, silty and massive crystalline, locally fossiliferous 70%; <u>U. V. - poor show</u> ; shale, dark grey-black silty, slightly calcareous, 30%
40	-	50	<u>Limestone</u> , tan, crystalline, fossiliferous favosities corals present 100%
50	-	60	<u>Limestone</u> , tan and grey, silty and crystalline 70%; shale, black 20%; siltstone, light grey, trace of pyrite poorly indurated 10%
60	-	70	Sandstone, fine grained and very fine grained, micaceous brown and grey 100%; <u>U. V. - poor show</u>
70	-	140	Shale, grey, very silty, carbonaceous 100%
140	-	150	Shale, black, silty, very calcareous 70%; shale grey 25%; shale brown 5%
150	-	160	Shale, black, silty, very calcareous 80%; shale, grey, 20%
160	-	170	Shale, grey, 45%; shale, black, silty, calcareous 30%; sandstone, light grey and brown, fine grained, micaceous 25%
170	-	175	Sandstone, fine grained, grey, micaceous and carbonaceous 100%
175	-	176	Sandstone, fine grained, grey micaceous and carbonaceous 100%; <u>U. V. - no show</u>

CORE # 1 (175-195)

175	-	175.7	Shale, grey wisps of grey sand throughout 175.7-177.3; alternating sand-shale- <u>limestone</u>
175.7	-	176.6	Sandstone brown, shaley, very slight oil ooze 176.6-176.9; sandy shale grey 176.9-177.3; <u>limestone</u> buff, shaley laminations throughout
177.3	-	191.6	Shale, grey wisps of sand 182.0-182.2, and 183.9-191.6; all approximately horizontal to core axis
191.6	-	195.0	Sandstone, fine grained, brown, micaceous; shale break $\frac{1}{4}$ " at 194.7; calcareous sand 194.7-195.0 silty pebbles 194.8-195.0, $\frac{3}{4}$ " by $\frac{1}{2}$ "; sand is shaley (197.5-197.8); interval <u>oozes free oil</u> 191.7 195.0; no presence of water; pit show rainbow to light cover

CORE # 2 (195-215.1)

195	-	196.4	Interlaminated shale, mica and sand (195-195.9) <u>very slight oil ooze</u> , 195.9-196.1, <u>limestone</u> , buff laminated with carbonaceous material and mica
196.5	-	197.1	Sandstone, grey calcareous fine grained, <u>no oil ooze here</u>

- 197.1 - 204.6 Interlaminated shale mica and sand; pure sand 200.5-201.9 numerous shale pebbles throughout; pure shale 201.9-203.1; sand 203.1-203.8; shale 203.8-204, sand 204.0-204.1; shale (204.1-204.2); sand 204.2-204.3); shale 204.3-204.6; all contacts regular and horizontal except bottom contact at 204.3 which ranges from nearly horizontal to approximately 70° from core axis
- 204.6 - 215.1 Sandstone, fine grained, grey, shaley sand (205-205.3); interlaminated shale mica and sand 208.9-211.1; calcareous sand 211.1-215.1 sand pebbles 3" by 1" at 206; 2" by 1/2" at 212.8; interlaminated mica and shale 215-215.1
core oozes no free oil; first water 201.5

CORE # 3 (215.1-235.1)

- 215.1 - 235.1 Sandstone, fine grained, grey; clean sand 215.1-221.9; calcareous sand 221.3-221.9; 223.7-225.2; 228.9-230.5; shale break 227.9-228.0; shaley sand 223.5-223.7; whisps of siltstone in sand 221.9-222.3; shaley sand 225.6-226.9 and 233.1-233.5; micaceous laminations 234.9-235.1
Interval oozes no free oil; core is water saturated
 Pit show unchanged

CORE # 4 (235.1-255.3)

- 235.1 - 237 Shale, grey, micaceous sand 235.1-235.7; sandy shale 235.9-236.2
- 237 - 238.6 Sandstone, dark grey, asphaltic and calcareous uniform throughout
- 238.6 - 239.6 Shale, grey, grading to limestone approximately 238.2 becoming limey
- 239.6 - 247 Sandstone, black, micaceous, carbonaceous, asphaltic and calcareous; shale break 241.2-241.7; contacts regular and horizontal; shale pebbles 242.0 3/4" by 1/2"; 245 2" by 1" shale rip-up clasts 246.6-247.0 2 1/2" by 1 1/2"; coal seams 243.9 and 244.0 approximately 1/8" thick and oriented 85° from core axis. Coal seams 241.9 irregular and discontinuous approximately 80° from core axis
- 247.0 - 255.3 Shale grey laminated with white siltstone or sand throughout everywhere, horizontal except 247.1-247.3, approximately 80° from core axis; brown sand occurs in lenses 247.1-247.6
 Core appears to be water saturated; no ooze of free oil; pit who improved, oil seepage over weekend?
- 275 - 280 Shale, grey 60%; shale, black, calcareous 20%; sandstone, fine grained, brown, micaceous and carbonaceous 20%; U. V. - no show

280 - 290 Shale, grey, 70%; shale, black, calcareous 20%;
limestone, buff 10%

290 - 300 Siltstone, grey-green local concentrations of
metal oxides sub angular brown 1-3mm hemetitic
75%; shale, black 25%