

SAMPLE LOG

DRILL HOLE: Devlin # 46
 --PROP. OWNER: William Devlin
 DRILL CONTRACTOR: V.W.B.
 DRILL OPERATOR: Bill Billman
 DATE STARTED: 2/13/80
 CASING LEFT IN HOLE:

LOC:
 LOGGED BY: MRG
 ELEV: 838.45
 DATE COMPLETED: 2/15/80.
 TOTAL DEPTH: 301'

30	-	40	Limestone, brown and grey, silty, and fossiliferous 60%; shale, black, silty 40%
40	-	50	Limestone, brown and grey fossiliferous and silty 80%; shale, black, silty 20%; <u>U. V. - good show</u>
50	-	60	Siltstone, light grey, trace of pyrite 70%; shale, black, silty 20%; <u>Limestone</u> , brown silty 10%
60	-	70	Siltstone, grey, carbonaceous 70%; Shale, light grey, silty 25%; Sandstone, grey brown, very fine grained micaceous, trace of feldspar? 5%
70	-	80	Shale grey, very silty carbonaceous 80%; siltstone, grey, micaceous and carbonaceous 20%
80	-	90	Shale, grey, silty, carbonaceous, locally plant fragments being replaced by pyrite 100%
90	-	100	Shale, grey, silty, carbonaceous 100%
100	-	110	Shale grey silty, carbonaceous 80%; siltstone grey, micaceous and carbonaceous 20%
110	-	120	Shale grey silty carbonaceous trace of pyrite 100%
120	-	130	Shale, grey silty 100%
130	-	140	Shale, grey, silty 60%; shale, black, silty, very calcareous 40%
140	-	150	Shale, grey, silty, locally carbonaceous 80%; shale black silty, very calcareous 20%
150	-	160	Shale, black silty very calcareous 40%; <u>limestone</u> , grey locally fossiliferous 35%; shale, grey, silty 25%
160	-	170	<u>Limestone</u> , grey, silty 40%; shale, grey silty, locally carbonaceous 30%; shale, black, very calcareous trace of pyrite 20%; sandstone, grey, fine grained, micaceous 10%; <u>U. V. - poor show</u>
170	-	171	Sandstone, fine grained, grey and brown, micaceous and carbonaceous 90%; <u>U. V. - good show</u> ; shale, grey-black, silty 10%

CORE # 1 171-187.7

171	-	175.4	Interlaminated shale, carbonaceous material, and sand. <u>fair oil ooze (171-172.1) slight oil ooze thru rest of interval.</u> Laminations approximately horizontal; shale and carbonaceous material more prevalent than sand
175.4	-	178.6	Sandstone, fine grained micaceous brown; shale break 175.8-176.0; $\frac{1}{2}$ " at 177.2; lime specks throughout; <u>good oil ooze</u>
178.6	-	182.5	Shale grey, sandy $\frac{1}{4}$ " at 179.0; (179.5-180.0) <u>good oil ooze here (181.5-181.9) fair oil ooze here</u>

- 182.5 - 185.9 Sandstone, fine grained, brown, interlaminated shale and carbonaceous material (183.0-183.1); shale pebbles (184.8-185.2) 2" by 3/4"; shale break (185.5-185.6)
- 185.9 - 187.1 Shale grey, sandy (186.1-186.2); (186.3-187.1) fair oil ooze here
- 187.1 - 187.7 Sandstone, fine grained, brown micaceous; all sand ooze oil; no presence of water on freshly brown surfaces; pit show light cover

CORE # 2 (188 - 207.4)

- 188 - 195.6 Sandstone, fine grained, brown micaceous, interlaminated shale sand and carbonaceous material (188-188.7); slight oil ooze here; shale break 193.95-194.2; contacts irregular and angular; shale pebble 194.4-194.6, 1" by 1"; good oil ooze
- 195.6 - 198.6 Interlaminated shale carbonaceous material and sand laminations approximately 80° from core axis to horizontal very slight oil ooze
- 198.6 - 202.1 Shale grey, finely laminated with carbonaceous material; laminations horizontal to 85° from core axis
- 202.1 - 207.1 Sandstone, grey and brown, fine grained micaceous specks of lime in sand throughout; shale breaks 203.2-203.7; (205.2-206.9) top contacts regular and horizontal; bottom contacts gradational shale pebbles 203.8 1/4" by 1/4"; 206.3 1/2" by 1/4"; top sand oozes oil 188.194.9; first presence of water 193.1 mixed with oil; pit show fair
- 210 - 215 Sandstone, fine grained, brown, micaceous and carbonaceous 100%; U. V. - good show
- 215 - 220 Sand stone, fine grained, brown, micaceous and carbonaceous 100%; U. V. - good show
- 220 - 225 Sandstone, fine grained, brown, micaceous and carbonaceous 100%; U. V. - fair show without fluid. good show with
- 225 - 230 Sandstone, fine grained, brown, micaceous and carbonaceous 100%; U. V. - good show
- 230 - 235 Sandstone, fine grained, brown, micaceous and carbonaceous 100%; U. V. - good show
- 235 - 240 Sandstone, fine grained, black micaceous; U. V. - good show
- 240 - 245 Sandstone, fine grained, black, micaceous 95%; shale, black silty 5%; U. V. - good show
- 245 - 250 Sandstone, fine grained, brown, micaceous and carbonaceous 100%; U. V. - fair show without fluid. good show with
- 250 - 260 Coal fragments 50%; sandstone, fine grained brown, micaceous 35%; limestone light grey, massive 10%; shale, black, silty 5% U. V. - poor show without fluid good show with
- 260 - 270 Sandstone, medium grained brown locally carbonaceous; very calcareous 60%; shale, black, silty 30%; shale, grey silty 5%; coal fragments 5%; U. V. - poor show without fluid. fair show with
- 270 - 280 Shale, black, silty, trace of pyrite 80%; limestone, light grey to brown, silty 15%; coal fragments 3%; shale, grey silty, slightly calcareous 2%
- 280 - 290 Shale, light grey-greenish 90%; limestone, buff, massive 10%
- 290 - 300 Siltstone, greyish, micaceous local concentrations of light brown, sub rounded, quartz grains (1-2mm); slightly calcareous 70%; shale, grey, silty 25%; shale, black, silty 5%