SAMPLE LOG

DRILL HOLE: Devlin # 35
PROP. OWNER: W. Devlin
DRILL CONTRACTOR: V W & B Drilling
DRILL OPERATOR: Billman
DATE STARTED: 1-12-80
CASING LEFT IN HOLE:

LOC:

LOGGED BY: MRG
ELEV: 839.19
DATE COMPLETED: 1-15-80
TOTAL DEPTH: 300'

30 - 40 - Limestone, brown and gray, silty, fossiliferous, favosities coral, carbonaceous 100%
40 - 50 - Limestone, gray, silty, fossiliferous, locally carbonaceous 80%; shale, black, silty, calcareous 20%
50 - 60 - Siltstone, gray, locally carbonaceous, local inclusions of limestone 90%; shale, black, silty, calcareous 10%
60 - 70 - Siltstone, gray, carbonaceous, slightly calcareous 100%
70 - 80 - Siltstone, gray, carbonaceous 100%
80 - 130 - Shale, gray, very silty, carbonaceous 100%
130 - 140 - Shale, black, silty, limey, fossiliferous, very calcareous 90%; shale, gray, silty, carbonaceous 10%
140 - 150 - Shale, black, silty, very calcareous 70%; siltstone, gray, carbonaceous 30%
150 - 160 - Coal fragments 50%; shale, black, silty, very calcareous, locally fossiliferou 25%; siltstone, gray, locally carbonaceous, trace of pyrite, calcareous 25%
160 - 170 - Sandstone, gray, fine grained, micaceous and carbonaceous 75%; U.V. no show Siltstone, gray, locally carbonaceous, local concentration of light brown, sub-rounded quartz grains 25%
170 - 174 - Sandstone, very fine grained, gray, carbonaceous and micaceous 100%; U.V. no show
174 - Sandstone, fine grained, brown and gray, micaceous and carbonaceous, 100%; U.V. good show

CORE # 1 - 174 - 193.5

174.0 - 193.5 - Sandstone, fine grained, brown, micaceous, interlaminated shale, sand and mica 175.9 - 179.1, 181.9 - 182.0, 184.1 - 188.8, oozes less oil than pure sand sections. Shale pebbles 174.1, ½" by ¼"; 179.1 ½" by ½"; 191.3, ½" by 1/8". Micaceous partings 176.1, 177.3, 178.2, 179.1, 182.1, 183.9, 184.1, 184.5, 184.6, 185.4, 186.1, 186.6, 187.4, 188.1 and 191.4.

Entire core oozes free oil more so in sandy intervals. No presence of water on any freshly broken surfaces. Gas bubbles are present throughout core and on freshly broken surfaces. Pit show good entire pit covered with oil.

CORE # 2 - 193.5 - 213

193.5 - 213.0 - Sandstone, fine grained, brown, micaceous, carbonaceous laminations 193.9 - 194.0. No oil ooze here. 204.8 ½" thick with no oil ooze. Shale lense 195.1 4" by ½". Shale pebbles 199.5 - 200.9, largest 1" by ½"; 202.1 - 203.8, largest ½" by ¼". Shale break ¼" at 205.2. Silty shaley sand at 206.9 - 208.1. Micaceous partings 194.2, 206.1, 208.9, 209.1.

Core oozes some free oil throughout. First presence of water 199.1. Pit show slight improvement over first core run.

214 - 220 - Sandstone, 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 fluid
225 - 230 - Sandstone, fine grained, brown, micaceous and carbonaceous 99.9%; U.V. fair sho without fluid, good show with fluid; shale, gray, silty, trace
230 - 235 - Sandstone, brown, fine grained, micaceous and carbonaceous 100%; U.V. poor show without fluid, good show with fluid
235 - 240 - Sandstone, brown, fine grained, micaceous and very carbonaceous 100%; U.V. poor show without fluid, good show with fluid
240 - 245 - Sandstone, fine grained, brown, micaceous, very carbonaceous 100%; U.V. no show without fluid, good show with fluid
245 - 250 - Sandstone, fine grained, gray-brown, micaceous, very carbonaceous 100%; U.V. no show without fluid, good show with fluid
250 - 260 - Shale, gray, silty 40%; coal fragments, locally being replaced by pyrite 30%; siltstone, brown 25%; limestone, buff 5%
260 - 270 - Shale, black, silty, very calcareous 70%; shale, dark gray, silty, trace of pyrite 20%; siltstone, brown 10%
270 - 280 - Shale, gray, silty 60%; siltstone, light gray 29.9%; shale, black, silty, very calcareous 10%; siltstone, brown, trace
280 - 290 - Shale, gray, silty 35%; shale, black, silty 35%; siltstone, light gray, local concentration of sub-rounded, light brown, quartz grains 30%
290 - 300 - Siltstone, light gray, locally carbonaceous, local concentrations of light brown, sub-rounded quartz grains 85%; shale, dark gray-black, 14.9%; limestone, buff, trace