

SAMPLE LOG

DRILL HOLE: Devlin # 21
PROP. OWNER: W. Devlin
DRILL CONTRACTOR: J-J Drilling
DRILL OPERATOR: Guy
DATE STARTED: 12-8-79
CASING LEFT IN HOLE:

LOC:
LOGGED BY: CRR & MRG
ELEV: 839'
DATE COMPLETED: 12-11-79
TOTAL DEPTH: 302'

30 - 40 - Limestone, tan 80%; shale, black 20%
40 - 50 - Siltstone, gray 30%; shale, black 40%; limestone, tan 30%; trace pyrite
50 - 60 - Siltstone, gray 70%; limestone, tan, coarse grain 30%
60 - 70 - Siltstone, dark gray; trace pyrite
70 - 120 - Siltstone, dark gray
120 - 130 - Siltstone, gray 60%; shale, black, calcareous 30%; limestone, tan 10%; trace pyrite
130 - 140 - Shale, black, calcareous 40%; limestone, tan 30%; siltstone, gray 30%; trace pyrite
140 - 150 - Limestone, tan 50%; shale, black 25%; siltstone, gray 25%; trace pyrite
150 - 160 - Siltstone, gray 65%; coal 35%
160 - 170 - Siltstone, gray 60%; shale, black 35%; limestone, tan 5%; trace pyrite
170 - 172 - Siltstone, gray 90%; sandstone, brown, very fine grained 10%; poor oil show
172 - Siltstone, gray 60%; sandstone, brown, very fine grained 40%; fair oil show

CORE # 1 - 172 - 192

172.0 - 192.0 - Sandstone, fine grained, brown, micaceous, irregular coal fragments 173.8. Reworked carbonaceous material and lenses surrounding sand 174.7 - 174.8, carbonaceous streamers 175.0 - 175.1, carbonaceous laminations 1/16 - 1/8" thick 179.0 - 179.1. Micaceous partings 180.0. Coal pebbles 180.1. Carbonaceous fragments and laminations 180.9 - 181.1, 181.7 - 182.0. Shale rip clasts 182. Carbonaceous banding $\approx 45^\circ$ from core axis 182.1. Micaceous partings 190.5, 190.6. Entire interval oozes free oil with no presence of water droplets on freshly broken surfaces.

CORE # 2 - 192 - 212

192.0 - 212.0 - Sandstone, fine grained, brown, micaceous. Carbonaceous laminae 192.0 - 192.2. Shaley sand finely laminated with carbonaceous material 196.2 - 196.9; sand becomes carbonaceous 196.9 - 197.8. Estimated one foot core loss 200 and 202 (gnarled core). Horizontal frac (fresh) at 203.1. Carbonaceous laminations 205.6 - 206.3. Shaley sand finely laminated with carbonaceous material 208.0 - 208.5. Finely laminated carbonaceous material 209.9 - 210.5. Shale pebbles at 210.5 1/4" x 1/4". Entire interval oozes some free oil. Interval is water wet below 196 with many water beads on freshly broken surfaces.

213- 220 - Sandstone, brown, very fine grained 70%; siltstone, gray 20%; coal 10%; good oil show
220 - 230 - Sandstone, brown, very fine grained 90%; shale, black 10%; trace coal; good oil show
230 - 240 - Sandstone, brown, very fine grained; trace coal
240 - 250 - Sandstone, brown, very fine grained 60%; siltstone, gray 10%; shale, black 30%
250 - 260 - Siltstone, gray 70%; shale, black 15%; limestone, tan 5%; sandstone, brown 10%
260 - 270 - Shale, black 70%; siltstone, gray 30%; trace pyrite
270 - 280 - Siltstone, light-dark gray 90%; shale, black 10%; trace hematite
280 - 290 - Siltstone, light gray 90% with 10% replaced by hematite; shale, black 10%
290 - 302 - Siltstone, light-dark gray with 10% replaced by hematite