

SAMPLE LOG

DRILL HOLE: Hiller #22
PROP. OWNER: John Hiller
DRILL CONTRACTOR: Lamampco
DRILL OPERATOR: Jim Miller
DATE STARTED: 12-12-79
CASING LEFT IN HOLE:

LOC:
LOGGED BY: CRR & MRG
ELEV:
DATE COMPLETED: 12-14-79
TOTAL DEPTH: 302'

30 - 40 - Limestone, tan 90%; shale, black 10%; fair oil show
40 - 50 - Limestone, tan 85%; shale, black 15%; trace pyrite; poor oil show
50 - 70 - Siltstone, gray 85%; shale, black 15%
70 - 80 - Siltstone, gray 90%; limestone, tan 10%
80 - 90 - Siltstone, gray 95%; limestone, tan 5%
90 - 120 - Siltstone, gray
120 - 130 - Siltstone, gray; trace pyrite
130 - 140 - Shale, black, calcareous 40%; coal 30%; siltstone, gray 20%; limestone, dark tan 10%
140 - 150 - Shale, black, calcareous 40%; limestone, tan 40%; siltstone, gray 20%
150 - 160 - Shale, black 40%; siltstone, gray 30%; limestone, tan 30%
160 - 170 - Siltstone, gray 60%; shale, black, silty 10%; trace pyrite
170 - 174 - Siltstone, gray; trace quartz, coal
174 - Sandstone, brown, very fine grained, carbonaceous 45%; siltstone, gray 45%; shale, black 10%; good oil show

CORE # 1 - 175 - 194.9

175.0 - 194.9 - Sandstone, fine grained, brown, micaceous, shale lenses 176.2 1½" by ½". Shaley carbonaceous zone with vug like character 178.5 - 178.6; carbonaceous laminations 180.2 - 181.4 nearly horizontal to 75° from core axis. Carbonaceous streaks 185.0 - 185.1. Carbonaceous laminations 191.9 - 192.8 nearly horizontal to 45° at 192.1. Core oozes free oil from 175.0 - 183.7. Sand appears to be washed of free oil below 183.7 it is grey on surface and brown within with no presence of water beads on freshly broken surfaces

CORE # 2 - 195 - 215.25

195.0 - 215.25- Sandstone, fine grained, gray-black, carbonaceous. Shale pebbles 196.9 - 197.3 3/8" by 1/8". Shale lamination 197.7 ¼" thick. Carbonaceous laminations 196.6 - 200.6, 202.5 - 203.6, 207.0 - 208.2, 209.8 - 212.5. Sand is very carbonaceous from 201.2 - 202.6 and 204.5 - 207.0. Shale rip clasts 208.3 - 209.2 largest 3/4" by ½". Entire said section is waterwet - no oozing of oil.

CORE # 3 - 215.25 - 235

215.25- 235.0 - Sandstone, fine grained, gray, micaceous and carbonaceous. Shaley sand and finely laminated carbonaceous material 215.25 - 216.1. Shale break 219.2 ½" thick. Shale pebbles 224.1 - 224.3 horizontal to core axis, largest ½" by 3/8", shale pebbles 224.9 ½" by 3/8". Shale, brown, 230 broken - approximately 6" core loss between 229 and 230. Coal break 230 - ? - approximately 6" core loss from 230 - 231. Plant fragments 231.0, 231.9, 232.3. Coal seam 234.9 3/4" thick. Sand becomes more carbonaceous from 226.8 - 233.0. Sand becomes shaley 234.5 - 234.9. No presence of free oil. Sand appears to be water saturated.

CORE # 4 - 235 - 240

235.0 - 237.7 - Sandstone, fine grained, gray-black, carbonaceous. Coal break 235.7 - 235.8. Coal pebbles and lenses, irregular orientation 236.8 - 237.1. Carbonaceous laminations 237.1 - 237.7. No presence of oil ooze appears to be water wet.

237.7 - 240.0 - Shale, gray, cross bedding 237.9- 238.0.

240 - 250 - Siltstone, gray 90%; sandstone, brown, carbonaceous, micaceous 10%; trace coal; fair oil show

250 - 260 - Shale, gray 60%; shale, black 40%; trace pyrite

260 - 270 - Shale, black, calcareous 45%; siltstone, gray 55%

270 - 280 - Siltstone, gray 70%; shale, black 30%; trace pyrite, hematite

280 - 290 - Siltstone, light gray with quartz grains 90%; shale, black 10%

290 - 302 - Siltstone, light gray-medium gray 80%; shale, black 20%; trace pyrite