

SAMPLE LOG

DRILL HOLE: Hiller #18
PROP. OWNER: John Hiller
DRILL CONTRACTOR: Lamampco
DRILL OPERATOR: Jim Miller
DATE STARTED: 1-17-80
CASING LEFT IN HOLE:

LOG:

LOGGED BY: MRG
ELEV: 848.71
DATE COMPLETED: 1-19-80
TOTAL DEPTH: 300'

30 - 40 - Limestone, light gray, fossiliferous, silty 90%; shale, black, silty 10%
40 - 50 - Limestone, light-gray-brown, fossiliferous and silty, locally carbonaceous 100%
50 - 60 - Siltstone, gray, carbonaceous, trace of pyrite 70%; shale, black, silty, trace of pyrite 30%
60 - 70 - Shale, black, silty, trace of pyrite 80%; shale, gray, silty 20%
70 - 80 - Shale, gray, silty 80%; shale, black, silty, trace of pyrite 20%
80 - 110 - Shale, gray, very silty, locally carbonaceous
110 - 120 - Shale, gray, very silty, carbonaceous 95%; siltstone, brown 5%
120 - 130 - Shale, gray, silty 100%
130 - 140 - Shale, gray, silty, trace of pyrite 90%; shale, black, silty, very calcareous 10%
140 - 150 - Shale, black, silty, limey, very calcareous 80%; limestone, brown, crystalline 10%; siltstone, gray, carbonaceous 10%
150 - 160 - Shale, black, silty, very calcareous 60%; siltstone, gray, carbonaceous 35%; limestone, brown, crystalline 4%; sandstone, grey and brown, micaceous and carbonaceous, fine grained 1%
160 - 170 - Sandstone, gray, fine grained, locally micaceous and carbonaceous 85%; shale, gray, silty, carbonaceous 15%
170 - 180 - Sandstone, gray, locally brown, fine grained, micaceous and carbonaceous 75%; U.V. good show; siltstone, gray, carbonaceous 25%
180 - Sandstone, fine grained, gray and brown, micaceous and carbonaceous 100%; U.V. good show

CORE # 1 - 181 - 199.9

181.0 - 199.9 - Sandstone, fine grained, brown, interlaminated shale carbonaceous material and sand 185.5 - 186.3, 186.6 - 187.0. 191.5 - 194.0. All ooze oil. Shale break $\frac{1}{2}$ " at 184.6, $\frac{1}{4}$ " at 184.9, 194.4 - 195.0 contacts regular Shale pebbles 197.95 $\frac{1}{2}$ " by $\frac{1}{2}$ ", 189.1 3/4" by $\frac{1}{4}$ ", 190.8 $\frac{1}{2}$ " by 3/8", 193.9 2" by 3/4", carbonaceous. Sand becomes carbonaceous \approx 197.6 - 199.9. Oil oozes from 185.5 - 197.3 upper sand 181 - 185.5 appears to be washed free of oil. First presence of water 196.2. Pit show light cover.

200 - 205 - Sandstone, fine grained, brown, micaceous and carbonaceous 70%; shale, black, silty, calcareous 20%; shale, gray, silty 10%; U.V. good show
205 - 210 - Sandstone, gray and brown, fine grained, micaceous, locally very carbonaceous 70%; U.V. fair show without fluid; good show with fluid; shale, black, silty, calcareous 15%; shale, gray, silty 10%; limestone, tan, silty and crystalline 5%
210 - 215 - Sandstone, fine grained, gray and brown, micaceous, very carbonaceous 90%; shale, black, silty 3%; shale, gray, silty, trace of pyrite 4%; limestone, tan 3%; U.V. fair show without fluid; good show with fluid
215 - 220 - Sandstone, fine grained, brown, micaceous and carbonaceous 90%; U.V. fair show without fluid; good show with fluid; shale, black 5%; shale, gray, silty 5%
220 - 225 - Sandstone, gray and brown, fine grained, micaceous, very carbonaceous 90%; U.V. poor show without fluid; good show with fluid; shale, gray, silty, carbonaceous 5%; limestone, tan 5%

225 - 230 - Sandstone, fine grained, gray and brown, micaceous and carbonaceous 90%; U.V. poor show; shale, gray, silty, slightly calcareous 5%; siltstone, brown 5%

230 - 240 - Sandstone, fine grained, gray, carbonaceous 80%; U.V. poor show; shale, gray silty 20%

240 - 250 - Siltstone, gray, carbonaceous 50%; shale, gray, carbonaceous, trace of pyrite 50%

250 - 260 - Shale, gray, carbonaceous, silty 70%; siltstone, gray, carbonaceous 20%; shale, brown 10%

260 - 270 - Shale, black, calcareous, silty, trace of pyrite 70%; siltstone, light gray, trace of pyrite 20%; coal fragments 5%; shale, brown 5%

270 - 280 - Siltstone, gray, carbonaceous, calcareous 80%; limestone, brown, crystalline 10%; shale, black, silty 10%; chert, red, trace

280 - 290 - Siltstone, gray-greenish, carbonaceous, local concentrations of sub-rounded, light brown quartz grains 85%; shale, dark gray-black, silty, trace of pyrite 15%; chert, orange-red, trace

290 - 300 - Siltstone, gray, carbonaceous, local concentrations of sub-rounded, light brown quartz grains (1-3MM) 80%; shale, black, silty, trace of pyrite 15%; siltstone, brown 5%