

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:

LOC:

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 $\frac{3}{4}$ " by $\frac{1}{4}$ ", 190.8 $\frac{1}{2}$ " by $\frac{3}{8}$ ", 193.9 2" by $\frac{3}{4}$ ", 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%