

# SAMPLE LOG

DRILL HOLE: Hiller #9

LOC:

PROP. OWNER: John Hiller

DRILL CONTRACTOR: Lamampco

DRILL OPERATOR: Jim Miller

LOGGED BY: MRG

DATE STARTED: 1-4-80

ELEV: 842.67

CASING LEFT IN HOLE:

DATE COMPLETED: 1-7-80

TOTAL DEPTH: 300'

- 30 - 40 - Limestone, light gray, fossiliferous, locally carbonaceous 50%; shale, black, silty, calcareous 50%
- 40 - 50 - Shale, black, silty 100%
- 50 - 60 - Siltstone, limey, fossiliferous, very calcareous, trace of pyrite 55%; shale, black, silty, trace of pyrite 45%
- 60 - 70 - Siltstone, gray, carbonaceous 100%
- 70 - 80 - Shale, silty, gray, carbonaceous 100%
- 80 - 90 - Siltstone, gray, carbonaceous 60%; shale, gray, silty, carbonaceous 40%
- 90 - 120 - Shale, gray, silty, carbonaceous 100%
- 120 - 130 - Shale, gray, silty, carbonaceous 90%; shale, black, calcareous, trace of pyrite 10%
- 130 - 140 - Shale, black, silty, calcareous, trace of pyrite 35%; coal fragments 35%; shale, gray, silty, trace of pyrite 30%
- 140 - 150 - Shale, black, silty, limey, very calcareous 85%; limestone, gray, silty 15%
- 150 - 160 - Limestone, gray, fossiliferous, trace of pyrite 80%; shale, black, limey, very calcareous 15%; siltstone, gray, local concentrations of well rounded light brown quartz grains 5%
- 160 - 164 - Siltstone, gray, carbonaceous 90%; sandstone, fine grained, brown, micaceous, locally carbonaceous 10%; U.V. good show
- 164 - Sandstone, fine grained, brown, micaceous and carbonaceous 100%; U.V. good show

CORE # 1 - 165 - 185.3

- 165.0 - 170.7 - Sandstone, fine grained brown, micaceous. Shale break  $\frac{1}{2}$ " thick 167.2, 167.7 - 167.8. Tight sand or siltstone 168.5 - 169.5 laminated with carbonaceous material. No oil ooze here.
- 170.7 - 178.5 - Shale, gray. Sand breaks 174.7 - 175.0, 175.4 - 175.8, 176.5 - 177.1. Oil oozes in all sand breaks.
- 178.5 - 185.3 - Sandstone, fine grained, brown, micaceous. Shale break 179.8 - 180.0. Shaley sand, 180.5 - 180.6 evidence of cross bedding in carbonaceous material; cross beds  $75^{\circ}$  from core axis. Sand in interval is clean & uniform. Free oil oozes throughout sand. No presence of water on freshly broken surfaces. Pit show poor.

CORE # 2 - 185.3 - 206.4

- 185.3 - 206.4 - Sandstone, brown and dark gray, micaceous. Carbonaceous laminations 189.6 - 189.7  $\approx 85^{\circ}$  from core axis, 190.9 - 191.4  $\approx 70^{\circ}$  from core axis, 200.7 - 201.1  $\approx$  horizontal interlaminated shale and carbonaceous material 202.05 - 202.2  $80^{\circ}$  from core axis. Shale pebbles 203.0 - 203.1 largest  $1\frac{1}{2}$ " by  $\frac{3}{4}$ ". Carbonaceous sand 191.9 - 195.1, 199.3 - 200.4. Hard tight sand 195.7 - 196.9, 197.6 - 199.5.

Sand oozes oil from 185.3 - 189.0. First presence of water on freshly broken surface at 189.1. Sand below appears to be water wet. Pit show improved now light.