

SAMPLE LOG

DRILL HOLE: Hiller # 21
PROP. OWNER: J. Hiller
DRILL CONTRACTOR: Lamampco
DRILL OPERATOR: Jim Miller
DATE STARTED: 12-29-79
CASING LEFT IN HOLE:

LOC:

LOGGED BY: MRG
ELEV: 844.42
DATE COMPLETED: 1-3-80
TOTAL DEPTH: 300'

- 30 - 40 - Shale, black, silty, slightly calcareous 60%; limestone, light gray, silty, fossiliferous 40%
- 40 - 50 - Limestone, light gray, silty 80%; shale, black, silty, calcareous 20%;
U.V. poor show
- 50 - 60 - Limestone, light gray, silty and crystalline, locally fossiliferous 99.9%; shale, black, trace
- 60 - 70 - Shale, black, silty, slightly calcareous 80%; limestone, light gray, silty 20%
- 70 - 80 - Shale, black, silty, locally micaceous, slightly calcareous, trace of pyrite 60%; limestone, gray, silty, micaceous 40%
- 80 - 90 - Shale, dark gray, silty 70%; limestone, gray, silty, micaceous 30%
- 90 - 100 - Shale, dark gray, silty, micaceous 100%
- 100 - 110 - Shale, gray, silty, micaceous, trace of pyrite 100%
- 110 - 130 - Shale, gray, silty 100%
- 130 - 140 - Shale, gray, silty 70%; shale, black, silty, very calcareous 30%
- 140 - 150 - Limestone, black, shaley, fossiliferous, trace of pyrite 80%; shale, gray, silty 20%
- 150 - 160 - Limestone, gray, silty and crystalline, fossiliferous 65%; shale, black, silty, very calcareous 35%
- 160 - 170 - Shale, black, silty, very calcareous 70%; siltstone, light gray, trace of pyrite, calcareous 30%
- 170 - 178 - Siltstone, light gray, micaceous, slightly calcareous 50%; shale, black, silty, calcareous 50%
- 178 - Sandstone, fine grained, brown, micaceous, locally carbonaceous 55%;
U.V. good show; siltstone, light gray, micaceous, slightly calcareous 45%

CORE # 1 - 178 - 198

- 178.0 - 198.0 - Sandstone, fine grained, brown and gray, micaceous. Carbonaceous laminations 179.2 - 179.3, 180.2 - 181.1, 182.3, 187.7, 191.0 - 191.2, 191.5 - 192.3, 194.1 - 194.2, 195.6 - 195.9; all laminations nearly horizontal to 80° from core axis. Shale pebbles 183.7, 1" by ½"; 185.3, ¾" by ½". Shale break ¾" thick at 186.2. Shale pebble 186.5, 1½" by 1½". Sand becomes carbonaceous 194.2 - 195.1. Micaceous parting 196.2.

Entire interval oozes no free oil. No presence of water beads on freshly broken surfaces at bottom of core. Pit show rainbow, poor. No presence of oil show while coring.

CORE # 2 - 198.5 - 219

- 198.5 - 219.0 - Sandstone, fine grained, gray, micaceous and carbonaceous. Shale pebbles 202.0 1" by ½"; 202.8 ¾" by ½"; 214.8 - 214.9 ½" by ½"; carbonaceous clasts 218.0 - 218.5 3" by 1" irregular (reworked). Sand is carbonaceous 199.3 - 204.7, 206.2 - 209.0, 211.5 - 212.5, 213.1 - 215.6 and 218.7 - 219.0. Shaley sand 204.8 - 204.9 and 209.8 - 210.2, 212.95 - 213.17 and 217.4 - 217.5. Carbonaceous laminations 205.8 - 206.1, 209.0 - 209.1, 210.6 - 210.8, 217.5 - 217.8. Approximately 1" core loss for each foot from 199 - 211, 213-215; 3" loss 215-216 and 216-217.

Entire interval is water wet with no ooze of free oil. Pit unchanged.

CORE # 3 - 219 - 228.5

219.0 - 225.2 - Sandstone, gray-black, fine grained, carbonaceous and shale rip clasts
219.7 - 220.1. Irregular orientations (reworking?) largest 2" by 1".
Shale break 220.3 - 221.3; coal seam 221.3 - 221.6; shale 221.6 - 221.9.
Interlaminated shale, carbon and sandstone 221.9 - 222.2, 223.8 - 224.0.
Carbonaceous sand 223.1 - 223.8, 225.2 - 228.55. Sandy, carbonaceous
shale, finely laminated throughout. Slight oil show in sand.

No oil ooze in core. It is water wet. Pit show poor - unchanged from
Core # 2.

230 - 240 - Shale, gray, silty, carbonaceous 70%; sandstone, fine grained, gray-brown,
micaceous and carbonaceous 30%; U.V. fair show.
240 - 250 - Shale, grading to siltstone, micaceous and carbonaceous 100%; U.V. fair show
250 - 260 - Shale, light gray, micaceous and carbonaceous, calcareous 50%; shale, dark gray
45%; siltstone, brown, calcareous 5%
260 - 270 - Shale, medium-dark gray, silty 85%; coal fragments 10%; siltstone, brown,
trace of pyrite 5%
270 - 280 - Shale, gray, silty 40%; shale, black, silty, trace of pyrite 40%; siltstone,
light gray-greenish, micaceous 20%.
280 - 290 - Siltstone, light gray, micaceous 45%; shale, gray, silty 40%; sandstone,
light gray, very fine grained, micaceous 15%
290 - 300 - Siltstone, light gray-greenish, local concentrations of light brown, sub-
rounded, quartz grains 80%; shale, black, silty 10%; sandstone, light gray,
very fine grained, micaceous 10%