

SAMPLE LOG

DRILL HOLE: Hiller #28
PROP. OWNER: John Hiller
DRILL CONTRACTOR: Lamampco
DRILL OPERATOR: Jim Miller
DATE STARTED: 1-8-80
CASING LEFT IN HOLE:

LOC:

LOGGED BY: MRG
ELEV: 846.52
DATE COMPLETED: 1-10-80
TOTAL DEPTH: 300'

- 30 - 40 - Limestone, gray, silty 50%; U.V. poor show; shale, black, silty, trace of pyrite 50%
- 40 - 50 - Limestone, light gray, massive crystalline, fossiliferous, locally carbonaceous 100%; U.V. poor show
- 50 - 60 - Limestone, gray, silty, fossiliferous 80%; U.V. poor show; shale, black, silty, slightly calcareous 20%
- 60 - 70 - Shale, dark brown-black, silty, carbonaceous 90%; siltstone, gray, carbonaceous and micaceous 10%
- 70 - 80 - Siltstone, gray, carbonaceous and micaceous, trace of pyrite 95%; shale, black, silty ~~10%~~ 5%
- 80 - 90 - Shale, gray, silty, locally carbonaceous material being replaced by pyrite 100%
- 90 - 120 - Shale, gray, silty, carbonaceous
- 120 - 130 - Shale, gray, silty, carbonaceous 95%; siltstone, brown 5%
- 130 - 140 - Shale, black, silty, very calcareous, trace of pyrite 80%; shale, gray, silty 15%; coal fragments 5%
- 140 - 150 - Limestone, black, silty, fossiliferous 80%; shale, light gray, very silty, locally carbonaceous 20%
- 150 - 160 - Shale, black, silty 85%; limestone, gray-brown, silty, locally fossiliferous 15%
- 160 - 164 - Sandstone, brown-gray, fine grained, carbonaceous and micaceous, locally carbonaceous material being replaced by pyrite 80%; U.V. good show; shale, black, silty, very calcareous 20%

CORE #1 - 164 - 184

- 164.0 - 171.8 - Interlaminated shale, carbonaceous material and sandstone. Oil ooze in sand intervals 164.0 - 164.1, 164.3 - 165.9, 166.4 - 166.6, $\frac{1}{2}$ " at 166.9, 167.1 - 167.9, 168.4 - 168.9, 169.1 - 170.9, 171.1 - 171.8.
- 174.5 - 184.0 - Sandstone, fine grained, brown. Shale break 174.5 - 175.2. Shale rip clast 182.1 $3\frac{3}{4}$ " by $1\frac{1}{8}$ ", shale break 1" 183.7 - 183.8, $\frac{1}{2}$ " at 183.9. Shale rip clasts 183.8 1" by $3\frac{3}{4}$ " and 189.0 2" by $\frac{1}{2}$ ".

Core loss 171.8 - 174.5 ground in core barrel \approx 1" loss each foot 174 - 183. Interval oozes oil 175.1 - 184. No evidence of water on freshly broken surfaces. Pit show poor - rainbow-light cover.

CORE # 2 - 184 - 202.6

- 184.0 - 202.6 - Sandstone, fine grained, brown. Siltstone 184.0 - 185.5. Shaley carbonaceous sand 186.4 - 186.9, 187.5 - 188.4, 189.1 - 190.2, 192.7 - 194.2. All with slight oil ooze. Shale rip clasts 194.8 - 194.9 1" by 3.4". Dark carbonaceous sands 195.1 - 195.4, 196.3 - 197.5, 199.1 - 200.6, 200.1 - 202.6.

No oil ooze present in siltstone. Oil ooze in sand from 185.4 - 195.1. First presence of water on freshly broken surface 192.8. Pit show improved from Core #1, light film on all surface.

- 205 - 210 - Sandstone, fine grained, gray and brown, micaceous and carbonaceous 100%;
U.V. good show
- 210 - 215 - Sandstone, fine grained, gray and brown, micaceous and carbonaceous 100%;
U.V. without fluid poor show with good show
- 215 - 220 - Sandstone, fine grained, gray and brown, micaceous and carbonaceous 100%;
U.V. without fluid fair show with good show
- 220 - 225 - Sandstone, fine grained, gray and brown, micaceous and carbonaceous 100%;
U.V. fair show
- 225 - 230 - Siltstone, gray, micaceous and carbonaceous 95%; sandstone, fine grained,
brown, micaceous and carbonaceous 5%; U.V. poor show
- 230 - 240 - Siltstone, gray, micaceous locally very carbonaceous 75%; sandstone, fine
grained, brown, micaceous and carbonaceous 25%; U.V. fair show
- 240 - 250 - Shale, gray, very silty, carbonaceous 80%; sandstone, brown, fine grained,
micaceous and carbonaceous 20%; U.V. fair show
- 250 - 260 - Shale, gray, very silty, carbonaceous 100%
- 260 - 270 - Shale, black, silty, very calcareous, trace of pyrite 70%; shale, gray, silty,
25%; limestone, buff 5%
- 270 - 280 - Siltstone, greenish, carbonaceous 45%; shale, black, silty, very calcareous
35%; shale, gray, silty 15%; limestone, buff, fossiliferous 5%
- 280 - 290 - Siltstone, greenish, local concentrations of sub-rounded light brown quartz
grains (1-2MM) 80%; shale, black, silty, calcareous 15%; chert, brown,
locally carbonaceous 5%
- 290 - 300 - Siltstone, light gray-greenish, local concentrations of light brown, sub-
rounded quartz grains (1-3MM) 80%; shale, gray, silty 10%; shale, black,
silty, calcareous 10%