

SAMPLE LOG

DRILL HOLE: Hiller # 17
PROP. OWNER: J. Hiller
DRILL CONTRACTOR: Lamampco
DRILL OPERATOR: Jim Millèr
DATE STARTED: 1-16-80
CASING LEFT IN HOLE:

LOC:
LOGGED BY: MRG
ELEV: 845.49
DATE COMPLETED: 1-17-80
TOTAL DEPTH: 300'

- 30 - 40 - Limestone, light gray, fossiliferous 50%; U.V. poor show; shale, black, trace of pyrite 50%
- 40 - 50 - Limestone, brown-gray, silty and massive, fossiliferous 100%; U.V. poor show
- 50 - 60 - Shale, black, silty 90%; limestone, gray, silty, locally carbonaceous 10%; U.V. poor show
- 60 - 70 - Siltstone, gray, trace of pyrite, locally carbonaceous 90%; limestone, tan, locally carbonaceous 10%
- 70 - 80 - Siltstone, gray, micaceous, carbonaceous 95%; limestone, tan 5%
- 80 - 90 - Shale, gray, silty, locally carbonaceous 65%; limestone, tan, fossiliferous 25% siltstone, gray, micaceous and carbonaceous 10%
- 90 - 130 - Shale, gray, silty 100%
- 130 - 140 - Shale, black, silty, very calcareous 60%; shale, gray, silty 40%
- 140 - 150 - limestone, gray, silty, locally fossiliferous 60%; shale, black, silty, calcareous 20%; shale, gray, silty 15%; siltstone, brown 5%
- 150 - 160 - Limestone, gray, silty 60%; shale, black, silty, calcareous 40%
- 160 - 170 - Limestone, gray, silty, brown crystalline 40%; shale, black, silty, calcareous 30%; shale, gray, silty 30%; sandstone, brown, fine grained, micaceous and carbonaceous trace
- 170 - 172 - Siltstone, gray, carbonaceous 50%; sandstone, brown, fine grained, micaceous and carbonaceous 50%; U.V. good show
- 172 - Sandstone, fine grained, brown, micaceous, locally carbonaceous 70%; U.V. good show; shale, gray, silty 30%

CORE # 1 - 173 - 191.7

- 173.0 - 191.7 - Sandstone, fine grained, brown, micaceous. Carbonaceous laminations (fine) 173.5 - 174.0, good oil ooze here; 175.5 - 176.4 oil and gas ooze here; 177.9 - 178.1 $\approx 85^\circ$ from core axis, oil and gas ooze here. Interlaminated shale, coal and sand 184.1 - 184.5, orientation nearly horizontal to 80° from core axis, slight oil ooze here. Carbonaceous laminations 182.8 - 183.2, good oil ooze here. Shale break 184.1 - 185.4. Upper contact regular 75° from core axis with few shale pebbles and carbonaceous laminations present. Lower contact micaceous parting $\approx 80^\circ$ from core axis. Shale pebbles 186.0 - 186.1, 1/8" by 1/8"; 186.7 - 186.9 1" by 1". Shale 1/2" at 189.7. Shale pebbles 190.7 - 191.0 2" by 1". Interlaminated shale and mica 191.3 - 191.7.

Interval oozes free oil 173.0 - 179.9. First presence of water on freshly broken surfaces (188.5). Pit show good cover of oil.

- 191 - 196 - Sandstone, fine grained, brown, micaceous, locally carbonaceous 70%; shale, gray, silty 10%; shale, black, silty 10%; limestone, buff 10%; U.V. fair show without fluid, good show with fluid
- 196 - 200 - Sandstone, fine grained, brown and gray, micaceous and carbonaceous 90%; U.V. fair show without fluid, good show with fluid; shale, black 5%; shale, gray, silty 5%

- 200 - 205 - Sandstone, fine grained, gray and brown, micaceous and carbonaceous 95%; U.V. poor show without fluid, good show with fluid; shale, gray, silty 5%
- 205 - 210 - Sandstone, fine grained, brown and gray, micaceous, locally very carbonaceous 90%; U.V. poor show without fluid, good show with fluid; siltstone, light gray, locally carbonaceous 10%
- 210 - 215 - Sandstone, fine grained, brown and gray, micaceous and locally very carbonaceous 95%; limestone, tan, locally carbonaceous 5%; U.V. poor show without fluid, good show with fluid
- 215 - 220 - Sandstone, fine grained, brown and gray, micaceous and carbonaceous 100%; U.V. fair show without fluid, good show with fluid
- 220 - 225 - Sandstone, fine grained, brown, micaceous and very carbonaceous 95%; U.V. fair show without fluid, good show with fluid; siltstone, brown 5%
- 225 - 230 - Sandstone, fine grained, brown and gray, micaceous and carbonaceous 80%; U.V. fair show; shale, gray, silty 20%
- 230 - 240 - Sandstone, gray, fine grained, micaceous and carbonaceous 60%; siltstone, gray, micaceous 40%
- 240 - 250 - Siltstone, gray, micaceous and carbonaceous 90%; sandstone, fine grained, gray, micaceous and carbonaceous 10%
- 250 - 260 - Shale, gray, silty, trace of pyrite 90%; shale, black, silty, calcareous 10%
- 260 - 270 - Limestone, gray, silty, local concentrations of well rounded, light brown, quartz grains 65%; shale, black, silty, calcareous 20%; chert, brown 15%
- 270 - 280 - Limestone, gray, silty, locally carbonaceous 65%; shale, black, silty, calcareous 20%; chert, brown 10%; coal fragments 5%
- 280 - 290 - Siltstone, light gray-greenish, local concentrations of sub-rounded, light brown, quartz grains 85%; shale, black, silty, calcareous 10%; chert, brown 5%
- 290 - 300 - Shale, light-dark gray, silty, carbonaceous 60%; siltstone, light gray, local concentrations of well-rounded, light brown quartz grains 30%; chert, brown 10%