

SAMPLE LOG

DRILL HOLE: R. Vilmer #5
PROP. OWNER: R. Vilmer
DRILL CONTRACTOR: J-J Drilling Co.
DRILL OPERATOR: Jim Jackson
DATE STARTED: 11/18/79
CASING LEFT IN HOLE:

LOC:
LOGGED BY: MRG
ELEV:
DATE COMPLETED: 12/1/79
TOTAL DEPTH: 300'

- 30 - 40 - Limestone, gray, silty, fossil fragments and Favosities coral 60%; shale, black, silty 20%; shale, gray, silty, calcareous 20%
- 40 - 50 - Shale, light gray, silty, trace of pyrite 90%; shale, black, silty, calcareous 10%
- 50 - 60 - Siltstone, light gray, trace of pyrite, slightly calcareous
- 60 - 70 - Shale, gray, silty, carbonaceous, trace of pyrite 80%; limestone, brown, fossil fragments 10%; sandstone, gray, carbonaceous; (U.V. - poor show)
- 70 - 120 - Shale, dark gray, silty, carbonaceous 100%
- 120 - 130 - Shale, gray, silty, carbonaceous 80%; shale, black, organic, highly calcareous, trace of pyrite, silty 20%
- 130 - 140 - Shale, black, limey, fossiliferous, locally shell fragments and carbonaceous material being replaced by pyrite 90%; shale, gray, silty, trace of pyrite 10%
- 140 - 150 - Shale, black, silty, trace of pyrite 40%; shale, gray, silty, trace of pyrite 30%; shale, black, limey, local replacement of shell fragments by pyrite 20%; limestone, brown, silty, some fossil fragments 10%
- 150 - 160 - Siltstone, carbonaceous, gray and greenish, trace of pyrite, calcareous 50%; shale, gray, silty, carbonaceous, trace of pyrite 35%; shale, black, silty, trace of pyrite 15%
- 160 - 170 - Shale, gray-black, silty, carbonaceous, trace of pyrite 90%; siltstone, light gray, carbonaceous, trace of mica 10%
- Bottom - 170 - Sandstone, gray and brown, micaceous, locally carbonaceous 90%; shale, gray, carbonaceous 10%

CORE #1 - 170 to 189.9

- 170 - 179 - Sandstone, fine grained, brown, micaceous, fine carbonaceous laminations (170 - 170.21 and 172 - 172.1) orientation 80° from core axis; shale pebbles 173.2 contorted; carbonaceous lamination 1/8" oriented 40° from core axis at 176.5
- 181 - 184.1 - Siltstone, gray-brown, micaceous shale interval 181-181.3; shale is gray with finely laminated carbonaceous material; fracture 50° from core axis at 182.5; carbonaceous parting and plant fragments at 183.9; carbonaceous laminations at 184.1
- 184.1 - 189.9 - Sandstone, fine grained, brown, micaceous; shale pebbles at 184.8 and 186.8; carbonaceous lense at 186.8; 186.9 carbonaceous break and plant fragments; micaceous partings at 188.4 and 188.5; sandstone oozes oil throughout interval; no water present

Note: approximately 2.1" lost in shale between 178.8 and 180.9.

CORE #2 - 190 - 208.25

- 190 - 208.25 - Sandstone, fine grained, brown, micaceous, carbonaceous, laminations and shale pebbles at 190.5 and 190.8; healed fracture at 191.2, approx. orientation 55° from core axis; at 191.4 carbonaceous and shale laminations 30° from core axis; finely laminated carbonaceous region at 198.0 - 198.4 oriented 20° from core axis; shaley and reworked carbonaceous area at 199.7; carbonaceous breaks containing plant fragments at 200.9 and 201.1; carbonaceous lenses and laminations at (202.2 - 202.6), 204.9, 205.1; unhealed fractures at 205 and 206.1 approximately horizontal; shale, gray ($1\frac{1}{2}$ " - 2") thick at 207.3; carbonaceous plant fragment at 208.2, $\frac{1}{2}$ " thick; core oozes free oil from 190 - 193; core appears to be water wet from 193 - 208.2--water beads on surface of core and on freshly broken surfaces
- 210 - 215 - Sandstone, fine grained, brown, micaceous and carbonaceous; (U.V. - fair show)
- 215 - 220 - Sandstone, fine grained, brown, micaceous and carbonaceous 99%; (U.V. - poor show); shale, gray, silty 1%
- 220 - 225 - Sandstone, fine grained, brown, micaceous and carbonaceous 85%; (U.V. - poor show); shale, gray, silty, locally carbonaceous 14.9%; siltstone, tan, trace
- 225 - 230 - Sandstone, fine grained, brown, micaceous and carbonaceous; (U.V. - poor show)
- 230 - 235 - Sandstone, fine grained, brown, micaceous and carbonaceous 99.9%; (U.V. - poor show); siltstone, gray, trace of pyrite, trace
- 235 - 240 - Sandstone, fine grained, brown, micaceous and carbonaceous 99.5%; shale, gray, silty and carbonaceous, trace
- 240 - 245 - Shale, gray, silty and carbonaceous 30%; siltstone, tan, locally carbonaceous, trace of pyrite 30%; sandstone, fine grained, brown, micaceous and carbonaceous 25%; shale, black, silty 15%
- 245 - 250 - Shale, gray, silty, trace of pyrite 95%; siltstone, tan 5%
- 250 - 255 - Shale, black, silty, calcareous, trace of pyrite 55%; shale, gray, silty, trace of pyrite 44.5%; limestone, tan, crystalline and silty, trace
- 255 - 260 - Shale, black, silty, calcareous, trace of pyrite 50%; coal, trace of pyrite 45%; siltstone, greenish, locally carbonaceous 5%
- 260 - 270 - Limestone, gray-tan, silty 80%; shale, black, silty 15%; shale, gray, silty 5%
- 270 - 280 - Shale, gray, silty, carbonaceous 40%; shale, black, silty, carbonaceous, trace of pyrite 30%; limestone, greenish, very silty 30%
- 280 - 290 - Siltstone, light gray-greenish, locally carbonaceous and glauconitic, local inclusions of sub-angular to sub-rounded light brown quartz grains (1-3 mm) 50%; shale, gray-black, silty, carbonaceous, trace of pyrite 50%
- 290 - 300 - Shale, dark gray-black, silty, carbonaceous 85%; siltstone, greenish, local inclusions of sub-rounded light brown quartz grains 15%
- T.D. @ 300'