

Drill Hole: Long # 25
Date Started: 5-22-80
Date Completed: 5-23-80
Logged by: MRG

Casing Elev. 848.65'
Total Depth: 300'
Contractor: Lamampco
Driller: Jim Miller

- 30 - 40 - Limestone, gray, crystalline, massive trace of pyrite 45%
Shale, gray, silty, calcareous 40%
Limestone, tan, crystalline 15%
- 40 - 50 - Limestone, tan, crystalline, fossiliferous Favosities & Horn Corals present 100%
- 50 - 60 - Limestone, tan, crystalline 65%
Shale, black, 25%
Shale, gray, silty, calcareous 10%
- 60 - 70 - Limestone, grayish, crystalline 95%
Shale, black, Calcareous 5%
- 70 - 80 - Limestone, tan, crystalline 60%
Shale, black, trace of pyrite 30%
Shale, gray, silty 10%
U. V. poor show without fluid good with
- 80 - 90 - Shale, black, silty & sandy, calcareous 75%
Shale, black 20%
Siltstone, light gray, micaceous 5%
- 90 - 100 - Shale, light gray, poorly indurated 75%
Siltstone, light gray, locally carbonaceous 25%
- 100 - 110 - Shale, gray, silty 65%
Siltstone, gray, local concentrations of nodular pyrite crystals 35%
- 110 - 150 - Shale, gray silty 100%
- 150 - 160 - Limestone, black, crystalline and silty 70%
Shale, gray, clayey 20%
Shale, brownish clayey 10%
- 160 - 170 - Limestone, tan, crystalline, locally fossiliferous 70%
Shale, dark gray 20%
Shale, gray, clayey 10%
- 170 - 179 - Shale, black, 65%
Shale, black, calcareous 20%
Limestone, tan, crystalline 10%
Shale, light gray, poorly indurated trace of pyrite crystals 5%
- Bottoms 179 Sandstone, fine grained, brown, locally carbonaceous 45%
Shale, light gray, poorly indurated 35%
Shale, black 15%
U. V. good show
Limestone, buff crystalline 5%

CORE # 1 179-199.5

- 179 -185.5- Shale, gray, silty. Lime rip-up clasts 179.5, 180.1 & 180.3-185.
Sandstone fine grained, brown, oozing oil 180.3-180.7 & 180.9-181.0
contacts regular, horizontal distinct. Carbonaceous laminae 182.7-
183.7 about horizontal. Shaley sand 185.0-185.2 & 185.4 - 185.5
horizontal. 186 186.5
- 185.5 -199.5- Sandstone, fine grained, brown, micaceous, slightly calcareous throughout.
Horizontal frac 190.7. Limey pebble 199.3 Sand is very uniform throughout.
Sand oozes oil 188.5-186 & slight amount of free oil slowly 187.3-188.5.
First presence of water 188.5

Pit show rainbow to very light cover over ½ of pit.

- 199 - 205 - Sandstone, fine grained, brown, micaceous and carbonaceous 90%
Sandstone, very fine grained, light gray, calcareous 5%
Shale, black 5%
U. V. good show
- 205 - 210 - Sandstone, fine grained, brown, micaceous, locally carbonaceous 95%
Shale, dark gray 5%
U. V. good show
- 210 - 215 - Sandstone, fine grained, brown, micaceous 100%
U. V. good show
- 215 - 220 - Sandstone, fine grained, brown, micaceous, locally slightly carbonaceous 100%
U. V. good show
- 220 - 225 - Sandstone, fine grained, brown and gray micaceous locally carbonaceous, becoming asphaltic 100%
U. V. fair show with^{out} fluid, good show with
- 225 - 230 - Sandstone, fine grained, brown, micaceous, asphaltic, locally shaley 100%
U. V. fair show without fluid, good with
- 230 - 235 - Sandstone, fine grained, brown, micaceous, asphaltic 100%
U. V. fair show without fluid, good with
- 235 - 240 - Sandstone, fine grained, brown, micaceous and asphaltic 100%
U. V. fair show without fluid, good with
- 240 - 245 - Sandstone, fine grained, brown-black, micaceous very asphaltic 95%
Limestone buff, sandy 5%
U. V. fair show without fluid, good with
- 245 - 250 - Sandstone, fine grained, brown-black micaceous very asphaltic
U. V. poor show without fluid, good with
- 250 - 255 - Sandstone, fine grained, black, micaceous, very asphaltic 100%
U. V. poor show without fluid, good with
- 255 - 260 - Sandstone, fine grained, black, micaceous, very asphaltic 95%
Shale, gray, silty 5%
U. V. poor show without fluid, good with
- 260 - 265 - Sandstone, fine grained, black, micaceous, very asphaltic 65%
Siltstone, brown, crystalline 25%
U. V. poor show without fluid, fair with
- 265 - 270 - Sandstone, fine grained, black, micaceous, very asphaltic 70%
Shale, brown, well indurated 20%
Shale, black, trace of pyrite, very calcareous 5%
Coal fragments 5%
U. V. poor show without fluid, fair show with
- 270 - 280 - Shale, gray, silty 95%
Sandstone, fine grained, black, very asphaltic 5%
U. V. poor show without fluid, fair show with
- 280 - 290 - Shale, black, trace of pyrite, calcareous 50%
Shale, gray, silty 40%
Coal fragments, locally replaced by pyrite 5%
Shale, brown, well indurated 5%
- 290 - 300 - Shale, light gray, poorly indurated 50%
Shale, black, calcareous 40%
Shale, gray, silty 10%