

SAMPLE LOG

DRILL HOLE: Long # 18
PROP. OWNER: Long
DRILL CONTRACTOR: Lamampco
DRILL OPERATOR: Jim Miller
DATE STARTED: 4-28-80
CASING LEFT IN HOLE:

LOC:
LOGGED BY: MRG
ELEV: 847.76'
DATE COMPLETED: 4-29-80
TOTAL DEPTH: 301'

- 30 - 40 - Limestone, tan, crystalline, fossiliferous 75%
Shale, gray, silty, calcareous 25%
- 40 - 50 - Shale, black, silty 70%
Limestone, tan, crystalline 20%
Shale, gray silty, calcareous 10%
- 50 - 60 - Limestone, tan, crystalline, fossiliferous, Favosities Corals present 90%
Shale, gray, silty & limey 10%
- 60 - 70 - Shale, black, silty 65%
Siltstone, light gray, trace of pyrite crystals poorly indurated 35%
- 70 - 80 - Siltstone, light gray, poorly indurated, trace of pyrite crystals calcareous 100%
- 80 - 90 - Siltstone, light gray poorly indurated, trace of pyrite crystals, calcareous 40%
Shale, gray, silty 35%
Sandstone, very fine grained, tan, calcareous 25%
- 90 - 140 - Shale gray, silty 100%
- 140 - 150 - Shale, gray, silty 70%
Shale, black, limey 25%
Siltstone, brown, crystalline 5%
- 150 - 160 - Limestone, black, crystalline, fossiliferous 45%
Shale, black, silty, limey 45%
Shale, gray 10%
- 160 - 170 - Shale, black, limey silty 70%
Shale, gray poorly indurated 20%
Limestone, black, crystalline, fossiliferous 10%
- 170 - 180 - Limestone, black, silty, very calcareous 75%
Siltstone, light gray, poorly indurated, calcareous 25%
- 180 - 190 - Shale, black, silty & sandy 45%
Siltstone, light gray, trace of pyrite crystals, calcareous 30%
Shale, gray, silty carbonaceous 15%
Limestone, black, crystalline, fossiliferous 10%
- BOTTOMS 190 - Sandstone, fine grained, gray & brown, micaceous, locally carbonaceous 60%
Shale, gray, silty 40%
U. V. Good Show

CORE # 1 190 - 209.8

190 -209.8 Sandstone, fine grained, gray, micaceous. Micaceous and carbonaceous laminations 192.0-192.3. Micaceous partings 194.1. Carbonaceous laminae 194.7-194.8 oozing oil; 208.7-209.1. Shale pebbles 203.1 1/8" by 1/8". Sand is asphaltic 207.1-208.8, and calcareous throughout. Core oozes oil top 3" & 200.3-200.9. First presence of water 192.6. Pit show rainbow to light cover.

- 210 - 215 - Sandstone, fine grained, brown, micaceous & carbonaceous 95%
Shale, gray, silty 5%
U. V. Good show
- 215- 220 - Sandstone, fine grained, brown, micaceous and carbonaceous 100%
U. V. Good show
- 220 - 225 - Sandstone, fine grained, brown, micaceous, very carbonaceous 95%
Coal fragments 5%
U. V. Fair show
- 225 - 227 - Shale, light gray, silty, poorly indurated, local inclusions of light brown, well rounded metal oxides 1-3 mm 95%
Limestone, tan, crystalline 5%

CORE # 2 (227-238.8)

- 227 -230.4 Shale, gray, silty horizontal cracks thru 288.8. Coal (228.8-229) silty rip-up clasts and horizontal laminations, slightly calcareous 229-230.4.
- 230.4 -232.5 Sandstone, fine grained, brown, micaceous sand is tight oozes oil slowly. Sand grades to shale 232.02-232.5.
- 232.5 -238.8 Shale, gray. Sandy laminations (brown no oil ooze). 232.5-234.2, & 237.1-238.8. Shale sand 236.3-236.6 & 237.0-237.1. Silty laminations white 235.1-238.8.

No presence of water in sand
Pit show light cover

- 239 - 250 - Siltstone, to very fine grained sandstone, gray-tan, carbonaceous locally asphaltic & micaceous 80%
Shale, gray silty 20%
U. V. poor show
- 250 - 260 - Shale, gray, silty 90%
Siltstone, gray, carbonaceous 10%
- 260 - 270 - Shale, black, calcareous silty 50%
Shale gray silty 50%
- 270 - 280 - Shale, black, silty, calcareous, trace of pyrite 65%
Shale, gray, poorly indurated 35%
- 280 - 290 - Siltstone, light gray, poorly indurated, calcareous 50%
Shale, black 30%
Shale, gray silty 20%
- 290 - 300 - Siltstone, light gray, local concentrations of light brown, sub rounded metal oxides 85%
Shale, black, silty 10%
Shale, gray 5%

28 330 NICE HANCOCK

Log #18 HCO #165

Core # (190-209.8)

190-209.8

Sandstone, fine, gray, micaceous

Micaceous & carbonaceous laminae

192.0-192.3, Micaceous partings

194.1, Carbonaceous laminae 194.7-

194.8 oozing oil, 208.7-209.1,

Shale pebbles 203.1 1/8", 1/8". Sand is

asphaltic 207.1-208.8, &

calcareous throughout. Core

oozes oil top 3" 200.3-200.9

First presence of water 192.6.

Pit show rainbow to light
cover

End Core #1
HCO #165

HCO #165

Core #2 (227-238.8)

227-230.4

Shale, grey, silty horizontal cracks thru 228.8. Coal (228.8-229)

Silty rip-up clasts and horizontal laminations, slightly calcareous

229-230.4

230.4-232.5

Sandstone, fine, brown, micaceous sand is tight & oozes oil slowly.

Sand grades to shale 232.2-232.5

232.5-236.8

Shale, grey, sandy laminations (brown no oil ooze) 232.5-234.2, + 237.1-

238.8. Shaly sand. 236.3-236.6 +

237.0-237.1 Silty laminations white

235.1-238.8

No presence of water in sand.

Pit shows light color

End Core #2

HCO #165