

SAMPLE LOG

DRILL HOLE: Long # 24
PROP. OWNER: Long
DRILL CONTRACTOR: Lamampco
DRILL OPERATOR: Jim Miller
DATE STARTED: May 14, 1980
CASING LEFT IN HOLE:

LOC:
LOGGED BY: MRG
ELEV: 848.67'
DATE COMPLETED: May 15, 1980
TOTAL DEPTH: 310'

- 41 - 50 - Limestone, gray & tan, silty & crystalline, fossiliferous 100%
50 - 60 - Limestone, tan, crystalline, massive, locally fossiliferous 75%
Limestone, gray, silty 25%
60 - 70 - Shale, black, silty 85%
Limestone, gray, silty & crystalline 15%
70 - 80 - Limestone, gray & tan, crystalline, massive, locally fossiliferous 100%
80 - 90 - Shale, black, silty, trace of pyrite 50%
Limestone, gray, very silty 50%
90 - 100 - Siltstone, light gray, carbonaceous, trace of pyrite crystals 80%
Sandstone, fine grained, gray & brown, locally micaceous and carbonaceous 15%
Shale, black silty, 5%
100 - 110 - Siltstone, light gray, carbonaceous, trace of pyrite 85%
Sandstone, fine grained, brown, locally carbonaceous 15%
110 - 120 - Shale, light gray, silty, poorly indurated 50%
Shale, gray, silty 95%
120 - 130 - Shale, gray, silty 95%
Siltstone, light gray, trace of pyrite crystals 5%
130 - 160 - Shale, gray, silty 100%
160 - 170 - Shale, gray, silty 50%
Shale, black, silty, calcareous, trace of pyrite 40%
Coal fragments 10%
170 - 180 - Shale, black, limey, locally fossiliferous 40%
Limestone, brown, crystalline 35%
Shale, gray, silty 25%
180 - 189 - Shale, black, silty, calcareous 40%
Shale, gray, silty 40%
Sandstone, fine grained limey, brown 20%
U. V. good show without fluid No mobil oil with

CORE # 1 189 - 209.6

- 189 -191.7 Sandstone, fine grained, brown, calcareous, shaley. Limestone 189-189.7 & 191.5-191.7. Contact 189.7 gradational. Interval oozes some free oil
191.7-195.8 Limestone, shale & sand. 191.7-192, shale gray top contact regular 80 degree from core axis bottom contact gradational to sand thru 192.1, 192.1-192.4 Lime sandy. Top contact regular and horizontal, bottom contact irregular. 192.4-192.7 Sandstone brown, shale pebble 192.6 1/4" by 1/4". 192.7-194.1 Shale, gray sandy inclusions 193.3-193.4, 193.6, 193.9, 194.0 All about 2" by 2". 194.1-195.7 Limestone, gray, sandy inclusions 194.1-194.2 & 194.2-194.7, 194.8-195.1.
195.7-206.0 Sandstone, fine grained, brown, finely laminated with shale, mica and carbonaceous material throughout. Shale and Mica laminations 203.6-203.9 & 204.2-205.1. Mostly shaley mica 205.3-205.7 sand occurs here in lenses. Interval oozes slight amount of oil in sand.
206.0-209.6 Interlaminated shale, mica and sand. All occur in lenses and whisps. Mostly sand 207.4-208.4. calcareous. No free oil ooze here.

First presence of water undertermined. Pitshow rainbow only.

- 209 - 215 - Sandstone, fine grained, brown, micaceous, locally carbonaceous 80%
Limestone, gray, silty 10%
Shale, black, silty 10%
U. V. Good Show
- 215 - 220 - Sandstone, fine grained, brown, micaceous & carbonaceous 100%
U. V. good show
- 220 - 225 - Sandstone, fine grained, brown, micaceous & carbonaceous 70%
Coal fragments 30%
U. V. Good show
- 225 - 230 - Sandstone, fine grained, gray micaceous, carbonaceous, becoming asphaltic 80%
Shale, gray, locally carbonaceous, poorly indurated 15%
Limestone, gray crystalline 5%
U. V. fair show without fluid, poor show with fluid
- 230 - 240 - Shale, gray, silty 45%
Shale, black 40%
Limestone, tan, crystalline 10%
Shale, brown 5%
- 240 - 250 - Shale, gray, silty, locally carbonaceous 40%
Limestone, dark gray, crystalline 35%
Shale, black, silty 25%
- 250 - 253 - Shale, gray silty 75%
Sandstone, fine grained, brown micaceous 20%
- Bottoms 253 Sandstone, fine grained, gray and brown, micaceous and carbonaceous 50%
Shale, gray, silty 50%
U. V. poor show without fluid good with

CORE # 2 253-271.3

- 253 -271.3- Shale, gray, silty. Pure brown sand 253-253.4. No oil ooze here. Interlaminated shale and sand 254.0-w54.2, 255.5-256.8 No oil ooze here. Pure shale 256.8-258.4 Irregular silty lenses & laminations ranging from 55 degree from core axis to nearly horizontal at 258.4-258.6. Interlaminated shale & silty 258.6-254.0 Shale becomes uniform below 254.0.
- 270 -280 - Shale, gray, silty 50%
Siltstone, gray, locally carbonaceous, local hemititic stains 50%
- 280 - 290 - Shale, gray, silty 55%
Shale, black, silty calcareous 35%
Limestone, brown silty & crystalline 10%
- 290 - 300 - Shale, light gray, poorly indurated 35%
Shale, black, silty, calcareous 35%
Shale, gray silty 30%
- 300 - 310 - Shale, light gray, silty, poorly indurated 50%
Shale, black, silty, trace of pyrite 30%
Shale, gray, silty 20%