

SAMPLE LOG

DRILL HOLE: Long #19

PROP. OWNER: Long

DRILL CONTRACTOR: V-W-B Drilling

DRILL OPERATOR: Bill Billman

DATE STARTED: April 25, 1980

CASING LEFT IN HOLE:

LOC:

LOGGED BY: MRG

ELEV: 846.15'

DATE COMPLETED: April 28, 1980

TOTAL DEPTH: 301'

- 30 - 40 - Limestone, tan-gray, crystalline, fossiliferous 100%
- 40 - 50 - Shale, black, silty 70%
Limestone, tan, crystalline, fossiliferous Favosities Corals Present 20%
Shale, gray, silty, calcareous 10%
- 50 - 60 - Limestone, tan, crystalline, fossiliferous 95%
Shale, black, silty 5%
- 60 - 70 - Siltstone, light gray, locally carbonaceous, trace of pyrite crystals 70%
Shale, black, silty 30%
- 70 - 80 - Siltstone, light gray, poorly indurated, trace of pyrite crystals 90%
Limestone, brown, crystalline, massive 5%
Shale, gray silty 5%
- 80 - 140 - Shale, gray, silty 100%
- 140 - 150 - Shale, black, silty, very calcareous 80%
Shale, gray, poorly indurated 20%
- 150 - 160 - Shale, black, limey, silty 90%
Shale, clayey, poorly indurated 10%
- 160 - 170 - Shale, black, limey 75%
Shale, gray, clayey, poorly indurated 15%
Limestone, brown, crystalline, massive 10%
- 170 - 180 - Shale, gray, silty, poorly indurated, local concentrations of brown well-rounded metal oxides 1-2 mm 55%
Shale, black, limey, locally carbonaceous 40%
Limestone, red-orange 5%
- 180 - 186.5 Shale, gray, silty, locally carbonaceous 90%
Siltstone, tan 10%
- Bottoms 186.5 Sandstone, very fine grained-fine grained, gray & brown, micaceous 50%
Shale, gray, silty 50%
U. V. Good show

CORE # 1 186.5-206.7

- 186.5-206.7 - Sandstone, fine grained, brown, micaceous, carbonaceous, micaceous laminations 198.0-198.3 no oil ooze here. Shaley sand 205.7-206.0. Carbonate laminae 188.5-188.7. Micaceous partings 193.9, 193.95, 196.0. Sand very clean and uniform throughout. Sand become calcareous below 190.

Core oozes no free oil. First presence of water 187.4. Pit show rainbow only.

- 206 - 210 - Sandstone, fine grained, brown, micaceous, locally carbonaceous 90%
Shale, gray, silty 10%
U. V. Good show
- 210 - 215 - Sandstone, fine grained, gray-tan, micaceous & carbonaceous 100%
U. V. fair show without fluid, good with
- 215 - 220 - Sandstone, fine grained, gray, micaceous and carbonaceous 70%
Shale, black, silty 20%
Limestone, gray, crystalline, shell fragments 10%
U. V. Good show

- 220 - 225 - Limestone, dark gray, crystalline 50%
Shale, gray, poorly indurated 30%
Coal fragments 20%
- 225 - 230 - Shale, gray, silty poorly indurated, local inclusions of brown, well rounded
metal oxides 70%
Limestone, red-orange, crystalline 20%
Shale, dark gray, silty 10%
- 230 - 235 - Shale, gray, silty 90%
Sandstone, fine grained, brown-gray, micaceous & carbonaceous 10%
- 235 - 240 - Shale, gray, silty 75%
Sandstone, fine grained, gray-brown, locally carbonaceous 25%
- 240 - 245 - Siltstone, to very fine grained, sandstone, tan & gray carbonaceous 70%
Shale, gray, silty, 30%
- U. V. Poor show
- 245 - 250 - Siltstone, light gray, locally carbonaceous 80%
Shale, gray, silty, carbonaceous 20%
- 250 - 260 - Shale, gray, silty, carbonaceous 100%
- 260 - 270 - Shale, medium-dark gray, silty 95%
Siltstone, brown, well indurated 5%
- 270 - 280 - Shale, black, silty, calcareous 60%
Shale, greenish poorly indurated 25%
Shale, gray, silty 10%
Limestone, tan, crystalline 5%
- 280 - 290 - Shale, greenish, local inclusions of light brown well rounded metal oxides
1-3 mm 70%
Shale, black, silty 30%
- 290 - 300 - Siltstone, gray-greenish, local concentrations of light brown sub-rounded
metal oxides 85%
Shale, dark gray-black, silty 15%