

SAMPLE LOG

DRILL HOLE: Long # 23
PROP. OWNER: Long
DRILL CONTRACTOR: Lamampco
DRILL OPERATOR: Jim Miller
DATE STARTED: May 19, 1980
CASING LEFT IN HOLE:

LOC:

LOGGED BY: MRG
ELEV: 848.98 ft
DATE COMPLETED: May 20, 1980
TOTAL DEPTH: 301 ft

- 30 - 40 - Limestone, light to dark gray, crystalline, locally fossiliferous 100%
- 40 - 50 - Limestone, light gray-tan, crystalline, fossiliferous 75%
Shale, black, silty 15%
Limestone, gray, silty 10%
- 50 - 60 - Limestone, tan, crystalline, locally fossiliferous 50%
Shale, black, silty 50%
- 60 - 70 - Limestone, gray and tan, silty & crystalline 75%
Shale, black, silty 25%
- 70 - 80 - Shale, black, silty 85%
Clay, gray 10%
Siltstone, light gray, poorly indurated 5%
- 80 - 90 - Siltstone, gray, carbonaceous, trace of pyrite 100%
- 90 - 100 - Siltstone, gray, carbonaceous, trace of pyrite (crystals, calcareous 80%
Shale, gray, silty 20%
- 100 - 110 - Siltstone, gray, carbonaceous 90%
Shale, gray, silty 10%
- 110 - 120 - Shale, gray, very silty 95%
Siltstone, gray 5%
- 120 - 140 - Shale, gray, very silty 95%
Siltstone, gray 5%
- 140 - 150 - Shale, gray, silty 90%
Shale, black, silty, calcareous 10%
- 150 - 160 - Shale, black, limey 60%
Shale, gray, silty, trace of pyrite 40%
- 160 - 170 - Shale, black, limey, trace of pyrite 95%
Shale, gray, silty 5%
- 170 - 180 - Shale, black, limey 50%
Shale, gray, silty 39%
Coal fragments 5%
Limestone, gray, crystalline, trace of pyrite 5%
Marcasite fragments 1%
- 180 - 188 - Shale, gray, silty, carbonaceous 90%
187 Shale, black, silty 5%
Coal fragments 3%
Sandstone, fine grained, brown, locally carbonaceous 2%
U. V. good show
- Bottom 188 Sandstone, fine grained, brown, locally carbonaceous, micaceous 70%
184 Shale, gray, silty, carbonaceous 25%
Shale, black, silty 4%
Coal fragments 1%
U. V. good show

CORE # 1 188-208.4

188 -208.4-Sandstone, fine grained, brown, calcareous, throughout. Micaceous laminations
 193-193.8 about 80 degrees from core axis; 201.9-202.0 about 80 degree from
 core axis, 204.1-204.2 about horizontal

Core is clean and uniform throughout. Oil oozes 189-189.1. First presence
 of water 191.3. Sand above appears to have lost oil during coring process.

Pitshow rainbow to light cover.

- 208 - 210 - Sandstone, fine grained, brown, micaceous, locally carbonaceous 95%
 Shale, black 5%
U. V. fair show without fluid good with
- 210 - 215 - Sandstone, fine grained, brown, micaceous, carbonaceous 100%
- 215 - 220 - Sandstone, fine grained, brown, micaceous, carbonaceous 100%
U. V. good show
- 220 - 225 - Sandstone, fine grained, brown-black, carbonaceous, micaceous 90%
 Sandstone, fine grained, brown-black, asphaltic, micaceous 10%
U. V. good show
- 225 - 230 - Sandstone, fine grained, brown-black, micaceous, very asphaltic 95%
 Sandstone, fine grained, brown micaceous and carbonaceous 5%
U. V. fair show without fluid, good with
- 230 - 235 - Sandstone, fine grained, brown, micaceous and carbonaceous 90%
 Sandstone, fine grained, brown-black, micaceous & asphaltic 10%
U. V. fair show with fluid, good with
- 235 - 240 - Sandstone, fine grained, brown, micaceous and carbonaceous 80%
U. V. good show
 Sandstone, fine grained, brown-black, micaceous & asphaltic 20%
- 240 - 245 - Sandstone, fine grained, brown, micaceous, slightly asphaltic 100%
U. V. good show
- 245 - 250 - Sandstone, fine grained, brown-black micaceous and asphaltic 100%
U. V. good show
- 250 - 255 - Sandstone, fine grained, brown-black, micaceous, very asphaltic 80%
Coal fragments 20%
U. V. good show
- 255 - 260 - Shale, gray, silty & sandy 85%
 Sandstone, fine grained, gray micaceous and asphaltic 15%
U. V. fair show without fluid, good with

CORE # 2 262 - 270.5

- 262 -270.5 Shale, gray, silty. Irregular silty lenses 265.7-265.8. Large silty
 pebbles, calcareous 265.9. Elsewhere uniform gray shale.
- 271 - 280 - Shale, gray, silty 90%
Limestone, tan, crystalline 5%
 Shale, brown 5%
- 280 - 290 - Shale, black, silty, calcareous 85%
 Shale, gray, silty 5%
 Shale, brown 5%
Coal fragments 5%
- 290 - 301 - Shale, black, silty, calcareous 60%
 Shale, gray & greenish, clayey 35%
Limestone, gray, crystalline 5%