

SAMPLE LOG

DRILL HOLE: Long # 20
PROP. OWNER: Long
DRILL CONTRACTOR: V-W-B Drilling
DRILL OPERATOR: Bill Billman
DATE STARTED: April 28, 1980
CASING LEFT IN HOLE:

LOC:
LOGGED BY: MRG
ELEV: 848.35'
DATE COMPLETED: April 29, 1980
TOTAL DEPTH: 301'

- 30 - 40 - Limestone, tan, crystalline, locally fossiliferous 100%
40 - 50 - Limestone, tan, crystalline, locally carbonaceous 75%
Shale, black, 15%
Limestone, gray, silty 10%
50 - 60 - Limestone, gray, crystalline, locally carbonaceous 100%
60 - 70 - Limestone, gray, crystalline fossiliferous, locally carbonaceous 75%
Shale, black, trace of pyrite 25%
70 - 80 - Shale, light gray, poorly indurated locally carbonaceous 85%
Siltstone, gray, locally carbonaceous 15%
80 - 90 - Shale, gray, very silty, locally carbonaceous 90%
Siltstone, gray, locally carbonaceous 100%
90 - 100 - Shale, gray, silty, trace of pyrite 100%
100 - 140 - Shale, gray, silty 100%
140 - 150 - Shale, gray, silty 95%
Shale, brown, silty, well indurated 5%
150 - 160 - Shale, dark gray - black, limy, locally fossiliferous 90%
Shale, gray 5%
Coal fragments 5%
160 - 170 - Limestone, dark gray, crystalline 45%
Shale, black, limy locally fossiliferous 40%
Shale, gray, poorly indurated 15%
170 - 182 - Shale, gray, poorly indurated 60%
Shale, black, silty, calcareous 38%
Coal fragments 2%

CORE # 1 182 - 202.3

- 182 - 186.4 - Shale, gray, silty. Carbonaceous streaks 183.1 1/8" and 184.8 1/8",
Carbonate whisps 185.1-186.2.
186.4 - 195.7 - Sandstone, fine grained, brown, micaceous shaley sand (186.8-187.2),
(187.9-188.7) Sand is calcareous throughout and appears clean and
uniform. Interval oozes oil 186.5-187.8. First presence of water
189.1
195.5 - 197.7 - Limestone, light gray, crystalline. Sandy lime 196.4-196.7 slight oil
ooze here.
197.8 - 202.3 - Sandstone, fine grained, brown, micaceous shale pebbles 201.9-202.0.
1" by 1/4" Sand is calcareous throughout, appears clean and uniform.
Interval oozes no oil and is water saturated throughout.
202 - 205 - Sandstone, fine grained, brown, locally micaceous and carbonaceous 90%
U. V. good show
Limestone, black, silty 10%

- 105 - 210 - Sandstone, fine grained, brown, locally micaceous and carbonaceous 95%
Limestone, black, crystalline 5%
U. V. good show
- 210 - 215 - Sandstone, fine grained, brown, micaceous, becoming asphaltic 100%
U. V. fair show without fluid, good with
- 215 - 220 - Sandstone, fine grained brown, micaceous, asphaltic 85%
Coal fragments 15%
U. V. fair show without fluid, good with
- 220 - 225 - Shale, gray, poorly indurated 60%
 Shale, black 30%
 Shale, gray, well indurated, local inclusions of light brown well rounded
 metal oxides 1-2 mm 5%
 Sandstone, fine grained, tan, micaceous and asphaltic 5%
- 225 - 230 - Limestone, dark gray-black, crystalline trace of pyrite 80%
 Shale, black, silty calcareous 20%
- 230 - 235 - Shale, gray, poorly indurated, local concentrations of light brown sub-rounded
 metal oxides 80%
Limestone, tan, silty 20%
- 235 - 240 - Shale, gray, silty 50%
 Sandstone, fine grained, brown, micaceous and carbonaceous 50%
U. V. Fair show without fluid, no mobil oil with fluid
- 240 - 245 - Shale, gray, silty, locally carbonaceous 65%
 Sandstone, fine grained, brown, micaceous, and carbonaceous 30%
Limestone, tan crystalline 5%
U. V. poor show without fluid, no mobil oil with fluid
- 245 - 250 - Siltstone, to very fine grained sandstone, tan and light gray, micaceous
 locally carbonaceous 100%
- 250 - 260 - Siltstone, gray, locally carbonaceous 70%
 Shale, gray, silty, carbonaceous 30%
- 260 - 270 - Shale, gray, silty, trace of pyrite 95%
 Shale, brown, well indurated 5%
- 270 - 280 - Shale, black, silty, calcareous 85%
Limestone, brown, crystalline 10%
 Shale, gray green, poorly indurated 5%
- 280 - 290 - Shale, gray green 60%
 Shale, black, calcareous 35%
Limestone, tan, crystalline 5%
- 290 - 301 - Siltstone, greenish local concentrations of sub-rounded brown, metal oxides
 95%
Limestone, tan, crystalline 2%
Shale, black 3%

p 28 . 50

long # 20

v.w.B

HCO# 166

Core # 1 (182-202.3)

182-186.4

Shale, grey silty. Carbonaceous streaks 183.1 1/8" + 184.8 1/8"

Carb whisps 185.1-186.2.

186.4-195.7

Sandstone, fng, brown, micaceous

Shaly sand (186.8-187.2), (187.9-

188.7) Sand is calcareous

throughout + appears clean + uniform Interval coze oil

186.5-187.8 First presence

of water 189.1

195.5-197.7

Limestone, light grey crystalline

Sandy lime 196.4-196.7 slight

oil coze here.

197.8-202.3

Sandstone, fng, brown, micaceous

Shaly pebbles 201.9-202.0 1" by 1/4"

Sand is calcareous throughout, appears

clean uniform. Interval coze

no oil + 1 sample interval throughout

End Cor # 1

HCO# 166