

SAMPLE LOG

DRILL HOLE: McGown # 13
PROP. OWNER: McGown
DRILL CONTRACTOR: V-W-B Drilling
DRILL OPERATOR: Bill Billman
DATE STARTED: April 9, 1980
CASING LEFT IN HOLE:

LOC:
LOGGED BY: MRG
ELEV: 836.91'
DATE COMPLETED: April 11, 1980
TOTAL DEPTH: 300'

- 30 - 40 - Limestone, gray-tan, silty and crystalline 80%
Shale, black, silty, trace of pyrite 20%
- 40 - 50 - Limestone, tan, silty & crystalline 99%
Shale, black, silty, trace of pyrite 1%
- 50 - 60 - Limestone, tan, crystalline, trace of pyrite 45%
Limestone, gray, silty 35%
Shale, black, silty 20%
- 60 - 70 - Siltstone, light gray, trace of pyrite crystals 75%
Shale, gray, silty 25%
- 70 - 80 - Shale, gray, very silty 90%
Siltstone, gray 10%
- 80 - 90 - Shale, gray, silty 100%
- 90 - 100 - Shale, gray, silty 90%
Siltstone, light gray, calcareous 10%
- 100 - 140 - Shale, gray silty 100%
- 140 - 150 - Limestone, black, crystalline & silty, trace of pyrite locally fossiliferous 80%
Shale, gray, poorly indurated 20%
- 150 - 160 - Limestone, tan, crystalline 50%
Shale, gray 25%
Shale, black, silty, calcareous 25%
- 160 - 170 - Shale, black, silty, calcareous 75%
Shale, gray, poorly indurated 20%
Limestone, gray crystalline 5%
- 170 - 180 - Shale, dark gray, silty & sandy 95%
Limestone, tan, crystalline 5%
- 180 - 186 - Limestone, orange-red, crystalline 60%
Shale, gray poorly indurated 20%
Shale, black 15%
Sandstone, fine grained, gray, micaceous and carbonaceous 5%

CORE # 1 186-206.1

- 186 -190.9 Shale Gray, silty. Carbonate laminate ¼' 186.4; 1/8" at 188.8, 189.1, 189.7, 189.8, 189.9, & (190.1-190.0)
- 190.9 -199.1 Sandstone, fine grained, gray, micaceous & calcareous throughout. Carbonate laminations 193.7-194.2 ranging from about 80 degrees from core axis to horizontal (light oil ooze here). Carbonate laminate about 80 degree from core axis 198.1-198.2. No oil ooze here.

- 1 - 201 - Shale, Gray fissel. Irregular sand inclusion 199.2-199.6 Sandy laminations and whisps 2005.-201.0 brown color here.
- 201 -203.2 Sandstone fine grained, gray, micaceous. Inter laminated shale and sand 202.7-203-.2 slight brown color here.
- 203.2 - 206 - Interlaminated limey sand and mica. mica occurs as whisps, lenses and laminae. Interval oo. slight amount of oil. 203.4-205.1 Shaley sand & mica. 205.3-206.1 no oil ooze here. Vertical frags 204.4-205.5. Core oozes slight amount of free oil. 203.4-205.1 appears water saturated elsewhere. Pitshow very slight rainbow only.
- 207 - 210 - Sandstone, fine grained, brown, micaceous, locally shaley 85%
Shale grey, silty 15%
U.V. fair show without fluid, good with
- 210 - 215 - Sandstone, fine grained, brown, micaceous, locally carbonaceous 100%
U.V. fair show without fluid, good with
- 215 - 220 - Sandstone, fine grained, brown, micaceous, locally carbonaceous 100%
U.V. fair show without fluid, good with
- 220 - 225 - Sandstone, fine grained, brown, micaceous and carbonaceous 100%
U.V. fair show without fluid, good with
- 225 - 230 - Sandstone, fine grained, brown, micaceous and very carbonaceous 100%
U.V. poor show without fluid, good with
- 230 - 235 - Sandstone, fine grained, brown, micaceous & carbonaceous becoming asphaltic 100%
U.V. poor show without fluid, good with
- 235 - 240 - Sandstone, fine grained, brown micaceous, carbonaceous slightly asphaltic 95%
U.V. poor show without fluid good with
Limestone, tan crystalline 5%
- 240 - 245 - Sandstone, fine grained, brown, micaceous, carbonaceous 55%
Limestone, tan, crystalline 45%
U.V. poor show without fluid, good with
- 245 - 250 - Shale, gray, silty, locally carbonaceous 95%
Sandstone, crystalline, brown 5%
- 250 - 260 - Shale, gray, silty 100%
- 260 - 270 - Shale, black, silty, calcareous 60%
Shale, grey, silty 35%
Siltstone, brown, crystalline 5%
- 270 - 280 - Shale, black, silty calcareous 60%
Siltstone, light gray, trace of pyrite crystals 25%
Coal fragments 15%
- 280 - 290 - Shale, black, silty 50%
Shale, gray, silty, poorly indurated 35%
Siltstone, light grey 15%
- 290 - 300 - Siltstone, light gray, local concentrations of light brown well rounded metal oxides 95%
Shale, black, silty 5%