

SAMPLE LOG

DRILL HOLE: W. Devlin #14
PROP. OWNER: William Devlin
DRILL CONTRACTOR: J-J Drilling Company
DRILL OPERATOR: Guy
DATE STARTED: 10/19/79
CASING LEFT IN HOLE:

LOC: Sec. 3, T31S, R21E; 495 FNL,
2145 FEL; 330' S and 330' W of
Devlin 11; Labette County
LOGGED BY: MRG, DRK
ELEV: 845'
DATE COMPLETED: 10/20/79
TOTAL DEPTH: 305'

- 40 - 50 - Limestone, medium gray, crystalline, massive, trace of pyrite, fossiliferous, (Favosities) 90%; shale, black, organic?, silty, calcareous 5%; shale, gray, silty, calcareous 5%
- 50 - 60 - Shale, black, slightly calcareous, silty 60%; shale, light gray, silty, calcareous, local concentrations of pyrite crystals 20%; limestone, dark gray, silty, trace of pyrite 20%
- 60 - 70 - Shale, dark gray, silty, slightly calcareous, micaceous 60%; shale, light gray, silty, trace of pyrite, locally carbonaceous 40%
- 70 - 80 - Shale, dark gray, silty, calcareous, locally pyritic
- 80 - 90 - Shale, dark gray, silty, calcareous, locally pyritic and carbonaceous
- 90 - 100 - Shale, dark gray, silty, calcareous, locally carbonaceous
- 100 - 110 - Shale, dark gray, silty, calcareous, locally pyrite replacing carbonaceous material
- 110 - 120 - Shale, dark gray, silty
- 120 - 130 - Shale, dark gray, silty, slightly calcareous
- 130 - 140 - Shale, dark gray, silty, slightly calcareous 80%; shale, black, silty, very calcareous 20%
- 140 - 150 - Shale, dark gray, silty, slightly calcareous 60%; shale, black, silty, very calcareous, trace of pyrite 30%; coal fragments 10%
- 150 - 160 - Shale, black, silty, very calcareous 80%; limestone, light to dark gray, silty and massive crystalline locally pyrite replacing fossil fragments 15%; shale, medium gray, poorly indurated, calcareous 5%
- 160 - 170 - Shale, black, silty, calcareous, local concentrations of pyrite 60%; shale, lightly gray, poorly indurated, trace of pyrite, silty 30% coal fragments 10%
- 170 - 177 - Shale, black, silty, calcareous 50% shale, gray, silty, locally carbonaceous 40%; limestone, gray to black, silty, local concentrations of pyrite 10%
- @ 177' - Sandstone, fine grained, brown, micaceous, locally carbonaceous 75%; U.V. - fair show; shale, gray, silty, locally carbonaceous 25%

CORE #1 - 177 - 197

- 177 - 178.1 - Sandstone, fine grained, brown, micaceous; carbonized plant section at 177.5 (.15' x .075'); (removed core interval 177.3 to 177.55 from core box). Core oozing free oil
- 178.1 - 178.5 - Sandstone, fine grained, light brown 60%; shale, gray 40% (as thin inter-laminations with sandstone); oil odor
- 178.5 - 178.65 - Sandstone, fine grained, brown 80%; shale, gray 20%; (as flat and crescent-shaped elongated fragments in sandstone)
- 178.65 - 191.7 - Sandstone, fine grained, brown; sparse micaceous partings and thin carbonaceous laminae; slightly shaley and micaceous interval from 184.7 to 184.9; $\frac{1}{4}$ " shale intervals at 189.45 and 189.55 with associated $\frac{1}{4}$ " diameter shale pebbles; irregular shale break or large shale fragments from 190.3 to 190.5; sandstone in interval generally massive and devoid of original bedding features; oozing free oil

- 191.7 - 197 - Sandstone, very fine grained, brown, micaceous 60%; shale, gray, silty 40%; sandstone throughout interval interbedded and inter-laminated with shale; sandstone/shale interlaminations with millimeter carbonaceous laminae and carbonized plant fragments and pyrite lenses; predominately sandstone intervals from 193.4 to 195.8 and 196.2 to 197.0; free oil oozing from thicker sand intervals and particularly long-lasting from 193.5 to 194.0 interval
- 197 - 200 - Sandstone, fine grained, brown, locally carbonaceous, micaceous; U.V. - good show
- 200 - 205 - Sandstone, fine grained, brown, locally carbonaceous, micaceous; U.V. - good show
- 205 - 210 - Sandstone, fine grained, brown, micaceous, locally carbonaceous 95%; coal fragments 5%; U.V. - good show
- 210 - 215 - Sandstone, fine grained, brown, micaceous, locally carbonaceous; U.V. - fair show
- 215 - 220 - Sandstone, fine grained, brown, micaceous, locally carbonaceous 70%; U.V. - fair show; shale, gray, silty, locally carbonaceous, micaceous
- 220 - 225 - Sandstone, fine grained, brown, micaceous, locally carbonaceous 50%; shale, gray, silty, micaceous 50%; U.V. - fair show
- 225 - 230 - Shale, medium gray, silty, locally carbonaceous 95%; coal fragments 5%
- 230 - 235 - Shale, medium gray, silty, locally carbonaceous 60%; siltstone, light gray, locally carbonaceous 40%
- 235 - 240 - Shale, medium to dark gray, silty, locally carbonaceous 80%; siltstone, light gray, locally carbonaceous 20%
- 240 - 245 - Shale, gray, silty, locally carbonaceous 50%; siltstone, light gray, locally carbonaceous, trace of pyrite 50%
- 245 - 250 - Shale, medium to dark gray, locally carbonaceous, silty
- 250 - 255 - Shale, medium gray, silty, locally pyrite replacing carbonaceous material
- 255 - 260 - Shale, medium to dark gray, silty, locally carbonaceous, trace pyrite 99%; limestone, pinkish-brown, favosities fossil 1%
- 260 - 270 - Shale, dark gray, silty, trace of pyrite 80%; limestone, brown, silty, trace of pyrite 20%
- 270 - 280 - Shale, light gray, silty, slightly calcareous, trace of pyrite 50%; shale, black, silty, locally carbonaceous 5%
- 280 - 290 - Siltstone, light gray, locally pyrite replacing carbonaceous material 90%; shale, black, silty 10%
- 290 - 300 - Siltstone, light gray, locally carbonaceous, local concentrations of well-rounded light brown quartz grains 60%; shale, gray, silty, locally carbonaceous 40%
- 300 - 305 - Shale, black, silty, very slightly calcareous 95%; siltstone, greenish, locally hematitic 5%
- T.D. @ 305'