

SAMPLE LOG

DRILL HOLE: D. Gray #17
PROP. OWNER: Don Gray
DRILL CONTRACTOR: J-J Drilling
DRILL OPERATOR: Guy
DATE STARTED: 9/26/79
CASING LEFT IN HOLE:

LOC: Sec. 34, T30S, R21E; 330' W of
Gray 8

LOGGED BY: MRG, DRK
ELEV: 847'
DATE COMPLETED: 9/27/79
TOTAL DEPTH: 300'

- 20 - 30 - Limestone, gray, massive crystalline, Favosities corals, locally carbonaceous 75%; chert, orange brown 25%
- 30 - 40 - Limestone, gray to brown, massive crystalline, Favosities corals 35% shale, black, silty, trace of pyrite 35%; chert, orange brown to yellow 30%
- 40 - 50 - Limestone, gray, silty and massive crystalline fossiliferous 65%; shale, black, silty, trace of pyrite 35%
- 50 - 60 - Shale, black, silty, trace of pyrite, calcareous 75%; shale, gray, silty, locally carbonaceous 25%
- 60 - 70 - Limestone, dark gray, silty 50%; shale, gray, silty, locally carbonaceous, poorly indurated 50%
- 70 - 80 - Shale, medium gray, silty, slightly calcareous
- 80 - 90 - Shale, medium gray, silty, calcareous, locally carbonaceous
- 90 - 100 - Shale, medium gray, silty, slightly calcareous, micaceous and carbonaceous
- 100 - 130 - Shale, medium gray, silty, micaceous, locally carbonaceous
- 130 - 140 - Shale, medium gray, silty 50%; shale, black, silty, trace of pyrite, slightly calcareous 50%
- 140 - 150 - Limestone, black, silty, fossiliferous, trace of pyrite, Rugosa coral 70%; shale, gray, silty, locally carbonaceous, poorly indurated 30%
- 150 - 160 - Limestone, gray to black, massive crystalline 75%; shale, black, silty, trace of pyrite 25%
- 160 - 170 - Shale, gray, silty, trace of pyrite poorly indurated 80%; shale, black, silty 10%; siltstone, gray, local concentrations of well-rounded brown quartz grains 10%
- 170 - 178 - Shale, gray to black, silty, locally carbonaceous material being replaced by pyrite 80%; siltstone, gray, shaley, local concentrations of well-rounded, brown quartz grains (2-4 mm) 20%

CORE #1 - 178 - 184'

- 178 - 180 - Sandstone, fine grained, brown, micaceous partings; closely-spaced and nearly horizontal thin shale and carbonaceous laminae throughout section, shale laminae thicknesses from paper-thin to $\frac{1}{4}$ " (avoid this zone when fracking); core oozing free oil
- 180 - 183.8 - Sandstone, medium grained, brown; thin carbonaceous laminae at 181.7 and 182.9 to 183.1; minor pyrite and carbonized plant fragments at 183.1; core oozing free oil
- 183.8 - 184 - Shale, gray; shale/sandstone contact 75° from core axis. (Shale/sandstone contact specimen removed from core box - 183.8 - 184.0 interval)