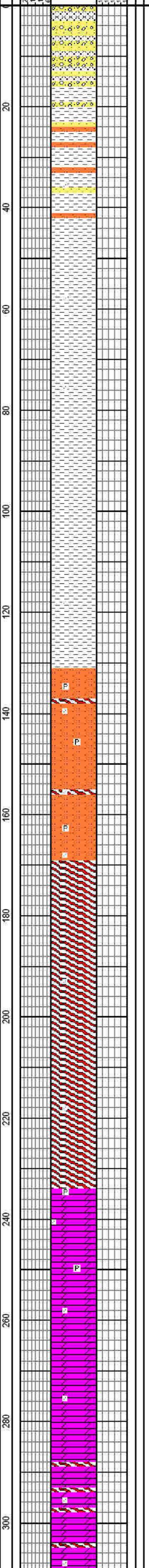
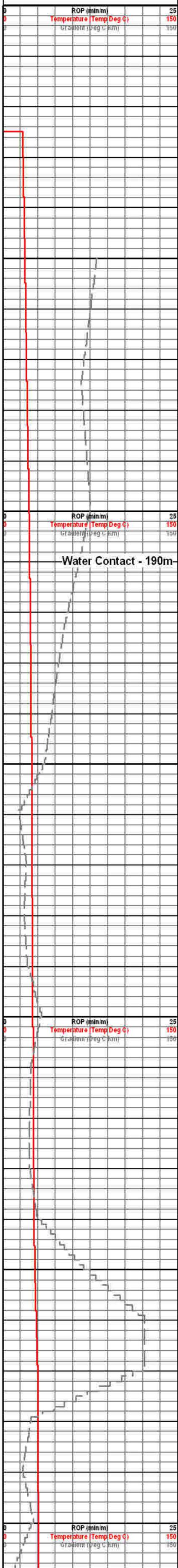


**Curve Track 1**

ROP (min/m) ———  
 Temperature (Temp Deg C) ———  
 Gradient (Deg C/km) - - - - -

Depth (m) ———  
 Porosity Type ———  
**Porosity**  
 Lithology ———  
**Grain Size**  
 Sorting ———  
 Rounding ———  
 Oil Shows ———

**Geological Descriptions**



**Alum Well 1186-39-55-02**  
 Lat 117'45, Long 37'45  
 Elevation 5020 ft or 1530.1m

Surface outcrop 30ft south of hole composed of light colored sandstones and angular conglomerates. Altitude N75 degrees East, 19 degrees South.

0-15m Sandstone and Conglomerate - As in surface outcrop with minor med. gray soft shales and thick beds of light tan siltstone.

15-45m Claystone - Light brown silty claystone, poorly consolidated, damp with minor siltstone and sandstone.

45-137m Claystone - Medium, greenish-gray, massive, very uniform, damp, primarily kaolinitic. Moderately well indurated. First water encountered at 380ft, no flow, just mixes with clay to form tacky slop. At 420ft-430ft water increases to 10-20 gpm.

137-169m Siltstone - Dark gray, light grayish green and pale green, hard, common bedding planes. Dark gray appears more massive. Trace of pyrite and thin quartz veins. Minor yellow limonite staining in some quartz veins. 1-5% dark green siltstone with slight phyllitic shear.

169-177m Phyllite - Medium gray with common white calcite along foliation planes. Often has mottled appearance. 1-3% pyrite along foliation and fractures.

177-233m Phyllite - Similar to above except medium greenish gray and veining mostly quartz. White quartz veins 2-3mm thick common. Some smaller veins of calcite.

233-264m Dolomite (Reed Domonite) - Very white to very pale gray, finely crystalline. Small (0.1-0.5mm) pyrite disseminated but 1% total. Increase in water to 60gpm at 765ft.

264-294m Dolomite - As above except pale pinkish gray.

294-300m Dolomite and Phyllite - Tan, green and pale pinkish gray 30-50% phyllite as in 580-795 ft, dolomite as above.

300-302m Dolomite - As in 865-965ft.

302-306m Dolomite - As above with 50% light gray montmorillonitic claystone and minor phyllite.