

Aspen Drilling Co.  
#1 Owen  
S/2 S/2 NE/4  
Sec. 21-T24S-R13W  
Stafford County, Kansas

PRELIMINARY CORE DESCRIPTION

by visual examination -

Core #1 1966 ft. - 2002 ft.  
Cored 36 ft. - Recovered 36 ft.

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Geologist For  
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- 1966.0 - 1966.2 Shale, medium gray.
- 1966.2 - 1967.7 Shale, calcareous, very slightly laminated, weak reaction to 15% HCL.
- 1967.7 - 1968.5 Shale & anhydrite, dark gray laminated shale, with scattered nodules of anhydrite.
- 1968.5 - 1970.5 Dolomite, very light gray, with small scattered nodules of Anhydrite, no porosity.
- 1970.5 - 1976.0 Dolomite, dense dark gray, no porosity.
- 1976.0 - 1977.0 Limestone, medium gray with black interstitial material, no porosity.
- 1977.0 - 1978.0 Dolomite, medium gray, dense, no porosity.
- 1978.0 - 1978.5 Dolomite, light to medium gray, with very small anhydrite inclusions, good pinpoint porosity.
- 1978.5 - 1984.5 Dolomite - limestone, medium to dark gray, fine grained and dense, no porosity.
- 1984.5 - 1995.0 Limestone, medium gray to slightly greenish-brown, medium to large grain. This interval includes black minerals scattered throughout. Bleeding gas was noted at the following depths: 1980.0, 1988.0, 1988.8 and 1990.0. Anhydrite nodules are common in the areas of bleeding gas. Salt crystals were formed on the dried section of the 1984.5 - 1995.0 ft. core interval.
- 1995.0 - 1997.2 Dolomite-limestone, medium gray, fine grain, scattered small anhydrite nodules, no visible porosity.

1972.2 - 2001.5

Limestone, medium gray, medium to large grain, with interstitial dark mineral, good intergranular porosity. Bleeding gas was noted from the 1999.0 to 2000.0 ft. interval. Salt crystals were also formed on the dried core throughout the 1972.2 - 2001.5 interval.

2001.5 - 2002.0

Limestone, light gray, medium grain, good intergranular porosity. Bleeding gas was noted at 2002.0 ft.