

GEOLOGICAL REPORT

March 24, 1967

Re: Dunlap & Cornell
 No. 1 Gnad
 600' from WL and 650' from
 NL of Lot 1, Sec. 30-12-11E
 Wabaunsee County, Kansas

Contractor: White & Ellis, ElDorado, Kansas
 Spud Date: March 15, 1967
 Surface Casing: 8 5/8 - 205 feet
 Plugged & Abandoned: March 21, 1967
 Electric Log: Great Guns
 Sections Detailed: 1050 to 1400
 2100 to 3245
 Elevation: 1291, Kelly Bushing

FORMATION TOPS BY DETAIL ELECTRIC LOG

LeCompton	1015 (+ 276)	Top Bart. Sand	2200 (- 909)
Oread	1158 (+ 133)	Base Bart. Sand	2250 (- 959)
Heebner	1180 (+ 111)	Mississippian	2437 (-1146)
Douglas	1190 (+ 101)	Kinderhook	2752 (-1461)
*Lansing	1453 (- 162)	Hunton	2938 (-1647)
*Kansas City	1574 (- 283)	Maquoketa	3157 (-1866)
*Base KC	1786 (- 495)	Viola	3231 (-1940)
*Marmaton	1903 (- 612)	Rotary Total Depth	3245 (-1954)
*Cherokee	2007 (- 716)	Log Total Depth	3246 (-1955)

*Sample Tops

Douglas Section

1200-1235: Laminated gray shale and fine grained, tight to fairly porous sandstone with fair to good oil saturation.

From the samples, it appeared that a good sand section was present and it was decided to log the section and run a Hook-wall straddle test. A drill stem truck was ordered to the location, but no test was attempted because the electric log revealed only a shaley, sandy section, not worthy of a test; furthermore, the Caliper Survey, run with the electric log, indicated the hole to be washed out to 10 to 13 inches, making it impossible to expect a lower packer seat for a straddle test.

Lansing-Kansas City Section

No shows of oil were noted in this section.

Bartlesville Sand

2200-2250: Sandstone, clear, medium grained, angular, good porosity, no shows of oil. 23% to 26% porosity, 65% to 70% water saturation by electric log.

Mississippian Section

2437-2460 (St. Louis)	Limestone, cherty, no shows.
2460-2560 (Spergen-Warsaw)	Dolomite, cherty near base, mostly good porosity, no show of oil.
2560-2650 (Osage)	Dolomite, cherty, no show of oil.
2650-2699 (Reed Springs)	Limestone dense, no show of oil.
2699-2752 (Gilmore City)	Limestone dense.

Hunton Section

2938-2950: Dolomite, fine crystalline, poor porosity, no show of oil.
2950-2970: Dolomite, medium to coarse crystalline, fair to good porosity, no show.
14% to 17% porosity, 68 to 95% water saturation.

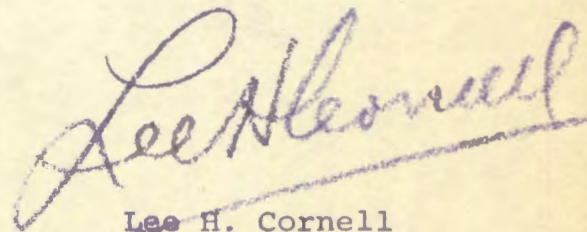
By electric log

2970-3157: Dolomite, mostly fine crystalline, sucrosic, mostly fair to good porosity. No shows.

Viola Section

3231-3336: Dolomite, fine to medium crystalline, poor porosity, no show of oil.
3336-3345: Rotary Total Depth. Dolomite, coarse crystalline, good vugular porosity, no show of oil.

Because of the lack of commercial shows of oil in No. 1 Gnadt, the well was plugged and abandoned.



Lee H. Cornell