

Corner #1  
SE SE Sec 17-25-13  
Stafford County, Kansas

Woodmen and Iannitti  
Union National Bldg.  
Wichita, Kansas

Gentlemen:

The following is my geological summary of your above-captioned well:

Elevation: 1956 R.B.  
Survey: Welox Radiation-Guard

All measurements related to rotary bushing.

Heelner	3540	-1584
Toronto	3559	-1603
Douglas	3582	-1626
Brown Lims	3696	-1740
Lansing	3728	-1772

Several zones of porosity were found in the Lansing-Kansas City section. All were found entirely void of any hydrocarbons with the exception of a small zone of porosity from 3974 to 3978. This collocastic lime had a very slight show of black oil. Permeability did not appear good. Section 99% barren. Not worthy of testing.

		-2057
Base K.C.	4013	-2157
Conglomerate	4067	-2111

4067-4080 white fresh to honey with fern-like staining, trace gas and free oil. Tested with DST #1 from 4060-60.

Tool open 1 hour, very weak blow throughout.

Recovered 60' drilling mud with few specks of oil.

IBM 313#, FEH 76#, IF 30, FF 30.

Viola	4206	-2250
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4206-4213 Chert, white-tan fresh to weathered with free oil and gas, porosity and staining appears to be from along fractures.

4217-25 Chert as above. These sections were tested by DST #2:

Tool open 1 hour, very strong blow.

Gas to surface 13 minutes, not strong enough to measure.

Recovered 60' slightly oil and gas cut mud

60' heavy oil and gas cut mud

600' gassy oil

shut in time 15 min, IBHP 1269#, FBHP 1123#, IF 168, FF 267

4225-4234 Chert as above with similar staining and free oil.

Section from 4225-4237 was cored with the recovery of only a few fragments of chert which showed fracturing with oil and gas along fractures.

Simpson		
Shale	4276	-2320
Sand	4280	-2324

4260-4267 Sand, medium grained, clean, white some clusters with free oil.

4290-4314 Dolomitic sand, large rhombs of dolomite, gray, with some staining and free oil.

These sections were tested by DST #3.

Tool open 1 hour, Good strong blow throughout

Recovered: 600' gas

150' slightly oil and gas cut mud

240' heavy oil and gas cut mud

660' oily water

270' salt water

15 min. IBH 705#, FBH 682#, IF 214#, FF 498#

Arbuckle 4341 -2385

The top of the Arbuckle was hard, tight fine to medium, tan dolomite, porosity was encountered at 4348 with no show.

Total 4355

Depth

The positive recovery by DST in the Viola and the promising shows in the Simpson prompted 5 1/2" casing to be cemented on bottom for further testing of the Viola and Simpson Sections.

Log analysis of the Simpson indicates that the lower section of sand was carrying the water of the DST and the upper sand to contain oil. These sands are separated by a three foot shale.

This upper sand should be perforated and tested.

The Log analysis also indicated 29' of section of Viola below what was tested to be oil bearing without excessive water saturation.

Sincerely,

Robert J. Gill

