

FRONTIER OIL COMPANY
1720 KSB & T Bldg.
Wichita, KS 67202

RE: Frontier Oil Company's
No. 2 Simpson
NE NE SE Sec. 9-11S-17W
Ellis County, KS

Dear Sir:

The following is a Geological Report with a time log attached on the above captioned well.

Drilling was supervised from 2400' to 3650', rotary total depth. Samples were examined from 2400' to rotary total depth.

All formation tops, Zones of porosity and staining are based on rotary bushing measurements. Any corrections in measurements made during the drilling of this well have been incorporated into this report.

Elevation (L&S)	1800 G.L. --- 1805 K.B.	
Anhydrite (Top)	1031	(+ 774)
(Base)	1068	(+ 737)
Brownville	2452	(- 647)
Tarkio	2558	(- 753)
Howard	2731	(- 926)
Topeka	2758	(- 953)
Heebner	2987	(-1182)
Toronto	3009	(-1204)
Lansing-Kansas City	3029	(-1224)
Base of Kansas City	3269	(-1464)
Conglomerate	3294	(-1489)
Arbuckle	3395	(-1590)
RTD	3650	(-1845)
5½" Pipe At	3636	(-1831)

Structurally on top of the Lansing-Kansas City the No. 2 Simpson ran 12' low to the No. 1 Simpson, located approx. ½ mile to the Southwest. On top of the Arbuckle the No. 2 Simpson ran 37' low to the No. 1 Simpson.

ZONES OF INTEREST

TOPEKA (TOP 2758 (-953))

2758 to 2763

White fine crystalline limestone.
No odor. No show of oil.

2787 to 2794

White sucrosic limestone. Scattered
light spotted stain. No odor.
No show of oil.

2805 to 2809

Tan sucrosic limestone. No
odor. Slight show of free oil.
Trace of light stain.

9-11-17w
Z. Simpson

2923 to 2932

White chalky limestone. No odor. No show of oil.

2950 to 2958

White chalky to sucrosic limestone. Scattered vugs. Scattered dark stain. No odor. No show of oil

TORONTO (TOP 3009 (1204))

3009 to 3011

White fine crystalline limestone. No odor. No show.

LANSING - KANSAS CITY (TOP 3029 (-1224))

3029 to 3033

White fine crystalline limestone. No odor. No show of free oil.

3065 to 3069

White fine crystalline limestone. No odor. Scattered light stain. Very slight show of free oil.

3087 to 3093

Tan fine crystalline limestone. Scattered vugs. No odor. Very slight show of free oil.

3111 to 3114

Tan cherty, limestone. No odor. No show.

3120 to 3124

Tan fine crystalline limestone. Very poorly developed oolitic porosity. No odor. No show of oil.

3126 to 3129

Tan fine crystalline limestone. Very poorly developed oolitic porosity. No odor. No show of oil.

3163 to 3168

White to tan chery limestone. No odor. No show of oil.

3188 to 3192

White fine crystalline slightly fossiliferous limestone. Faint odor. No show of oil.

3207 to 3215

Tan fine crystalline limestone. No odor. No show of oil.

3234 to 3238

White chalky to fine crystalline limestone. No odor. No show of oil.

3256 to 3260

Tan cherty limestone. No odor. No show.

CONGLOMERATE (TOP 3294)

3309 to 3318

Scattered quartz sand grains

grains along with yellow, red and clear cherts scattered red shale and junky lime.

3320 to 3330

Abundant frosted quartz, white and yellow cherts. Scattered show of free oil and no odor.

3330 to 3340

Abundant clusters of fresh and weathered multicolored cherts with a carbonate matrix. Scattered loose sand grains. No odor. Fair show of free oil.

DRILL STEM TEST NO 1 (FOC TEST)

3268 to 3335

60-30-60-30
Fair blow both openings. Recovered 60' gas in pipe, 160' oil cut mud. Initial flow 62-103. Final flow 103 to 123. Initial shut in pressure 614. Final shut in pressure 594.

3340 to 3350

Multicolored cherts and red shale. No odor. Fair show of free oil in tray.

ARBUCKLE DOLOMITE (TOP 3395 (-1590))

3395 to 3405

Scattered tan fine crystalline dolomite, tight. No odor. No Show of oil.
Tan medium crystalline dolomite. No odor. No show of oil.

Due to the low structural position and lack of a show of oil in the Arbuckle a drill stem test was not run on this zone.

5½" casing was set at 3636', 241 in the Arbuckle and 14' off bottom with 200 sacks common cement.

Zero point is 5' A.G.L.

The shoe joint is 41.40' long.

Casing was set to further test the Conglomerate.

Sincerely,

Joel A. Alberts
Joel A. Alberts

JAA/sma

