

Martin K. Dubois

Consulting Geologist

432 State Bank Building • Winfield, Kansas 67156 • 316-221-0428

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GEOLOGIC REPORT

Jerry Lutz #1 Means

70' So. of E/2 SE SW 31-9S-19E

Jefferson County, Kansas

Daily Progress:

4/24 Moved on location; set 7 5/8" surface casing at 107' with 100 sacks 50/50 pozmix cement 3% CaCl, plug down at 1:00 a.m.; circulation was lost at 18' while drilling surface hole.

4/25 Drilled out beneath surface casing at 8:00 a.m.

4/26 Drilling at 1075' at 8:00 a.m.

4/27 Drilling at 1704' at 8:00 a.m.; RTD of 1841' reached at 8:15 p.m.; ran Electric Logs, plugged as D & A with 15 sacks at 1640', 15 sacks at 700', circulated from 350' to surface.

Contractors:

Drilling Contractor: Hutton Drilling Company
Drilling Mud: Trotter Supply
Cement: Halliburton Services
Electric Logs: Log Tech (Dual Porosity, Dual Induction)

Formation Tops (E-Log Depths):

<u>Formations</u>	<u>#1 Means</u> <u>GL 1069</u>	<u>Structural Relation to</u> <u>Lutz #1 Wittwer</u> <u>SW SW NE 31-9S-19E</u>
Heebner	224(+845)	+21
Lansing	514(+555)	+19
Base Kansas City	864(+205)	+12
Cherokee	1093(- 24)	+14
McLouth Sandstone	1607(-538)	Does not correlate
Mississippi	1627(-558)	+82
Warsaw	1680(-611)	+29
Burlington-keokuk	1801(-732)	+20
Total Depth *	1830(-761)	--

*Rotary Total Depth was 1841. Sample depths were consistently 7 to 12 feet deeper from Base Kansas City to TD.

Oil and Gas Shows :

There were no shows of oil or gas in samples, nor gas shows on "Hot-Wire" gas detector, nor E-Log shows.

Recommendations/Summary:

Due to the lack of oil or gas shows in the #1 Means well, it was plugged and abandoned.

The surface structural feature upon which the #1 Means well was drilled held up well with depth but was due to an extremely high erosional feature on the Mississippi surface rather than structure at depth. The captioned well had as much as 63 feet more Mississippi section than did the #1 Wittwer well located a little more than a half mile to the north. In the top of the Mississippi, the #1 Means well encountered 4 feet of the St. Louis formation and 49' of Spergen, both of which were absent due to erosion in the Wittwer well. There was also 10 feet more Warsaw formation present in the Means well than in the Wittwer. Thus, the 82 feet of relief on the Mississippi surface from the Means well down to the Wittwer was primarily related to erosion of the Mississippi at the latter wells location. The deeper Burlington and keokuk formations were only 20 feet higher in the Means well.

Lower Cherokee sediments found in the 45 feet just above the Mississippi in the Wittwer well appear to completely pinch out against the erosional high found in the Means well.

Though the erosional feature found in #1 Means well is of academic significance the well has effectively condemned at least part of the surface structure southwest of Oskaloosa.

Respectfully submitted,

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MKD:sj



STATE Kansas		COMPANY Jerry Lutz	
COUNTY Jefferson	FARM Means	WELL NO. 1	
BLOCK	SURVEY 70' So. of E/2 SE SW		
SEC. 31			
T. 9 South	R. 19 East	TOTAL DEPTH	
CONTRACTOR Hutton Drilling Co.			
COMMENCED 4/24/89			
COMPLETED 4/27/89			
REMARKS RTD 1841 LTD 1830			
ALTITUDE 1069			
PRODUCTION D&A			
CASING RECORD			
7 5/8" @ 107'		100 SK, 50-50 Pcs w/ 3% CaCl	
Bits: 107-TD HTC J-22			
SHOT	QUARTS	BETWEEN	
TIME RATE SCALE: 1/10" = MINUTES			
HEADBILL 450 TULSA, OKLAHOMA 74101 PRINTED IN U.S.A.			
1000 TIME RATE-1/10" SQUARES			



