

WELL LOG BUREAU—KANSAS GEOLOGICAL SOCIETY  
508 East Murdock, Wichita, Kansas

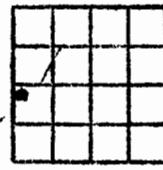
20-12-14W

Company- BERGMAN DRILLING  
Farm- Krug No. 1

SEC. 20 T. 12 R. 14W  
NW NW SW

Total Depth. 3126'  
Comm. 6-12-62 Comp. 6-20-62  
Shot or Treated.  
Contractor. Bergman Drilling  
Issued. 10-12-63

County Russell  
KANSAS



Elevation. 1611' KR

Production. Dry

Figures Indicate Bottom of Formations.

sand & silt	180
Dakota	295
shale & shells	430
red bed	684
anhydrite	720
shale	1320
shale & shells	1380
lime & shale	1740
shale & lime	2185
lime & shale	2350
shale & lime	2515
lime & shale	2560
lime	2880
lime & chert	2917
lime	3105
lime & Arbuckle	3126 RTD
Total Depth	

TOPS:

Anhydrite	682
Heebner	2737
Topeka	2756
Douglas	2770
Lansing	2790
Conglomerate	3093
Arbuckle	3096

20-12-14W  
with  
Driller  
log

LEE H. CORNELL  
Petroleum Geologist  
PHONE AMHERST 2-3921  
706 DRPHEUM BUILDING  
WICHITA 2, KANSAS

June 22, 1962

Bergman Drilling, Inc.  
425 Union Center  
Wichita, 2, Kansas

Re: No. 1 KRUG-SMITH  
NW NW SW 20-12-14W  
Russell County, Kansas

Gentlemen:

The following is my report on the above captioned well:

MISCELLANEOUS DATA

Contractor: Bergman Drilling, Inc.  
Commenced: June 11, 1962  
Surface Casing: 8 5/8" set at 689', cemented with 350 sacks.  
Completed: June 21, 1962

FORMATION TOPS

Elevation: 1611' K.B.

Anhydrite	682	(+ 929)	Lansing	2790	(-1179)
Heebner	2737	(-1126)	Conglomerate	3093	(-1482)
Toronto	2756	(-1145)	Arbuckle	3096	(-1485)
Douglas	2770	(-1159)	Total Depth	3126	(-1515)

STRUCTURAL POSITION

No. 1 Krug-Smith was lower than anticipated on both the Lansing and Arbuckle. It is practically flat on the Lansing with all surrounding dry holes; it is 5 feet lower than a dry hole 1 mile east, 2 feet lower than a dry hole 1½ miles southeast, flat with a dry hole ¾ mile west, 7 feet lower than two dry holes 1½ miles north and 1½ miles northeast. On the Arbuckle it is 26 feet higher than the dry hole 1 mile east, 10 feet higher than the dry hole 1½ miles southeast, 2 feet lower than the dry hole ¾ mile west, 9 feet higher than the dry hole 1½ miles north and 36 feet higher than the dry hole 1½ miles northeast.

It appears that there is still a closure on the Lansing and Arbuckle north of the well. The acreage to the south of the well appears to be condemned.

20-12-14W

Re: No. 1 Krug-Smith

-2-

June 22, 1962

LANSING SECTION

- 2818-2822 (30 ft. zone) Limestone, oolitic, faint odor, small show of free oil, fair to good stain.
- 2832-2837 (45 ft. zone) Limestone, oolitic and oolitic, faint odor, fair show of free oil, fair to good stain.
- 2883-2893 (90 ft. zone) Limestone, white, chalky in part, cherty in part, no odor, no free oil, no staining. (This zone is usually oolitic, but is sometimes cherty.)

Halliburton DST No. 1, 2800-2841 -- Open 2 hours, fair blow for 40 minutes diminishing blow for 80 minutes; recovered 90 feet of slightly oil cut, watery mud. ICIP 340#/30 min.; FCIP 83#/30 min.; IFP 31#; FFP 62#.

- 2950-2957 (160 ft. zone) Limestone, slightly cherty, scattered vugular porosity, no odor, small show of free oil, scattered staining.
- 2974-2978 (180 ft. zone) Limestone, oolitic, no odor, scattered pieces with fair to good show of dark, free oil and dark stain, no fluorescence.

Halliburton DST #2, 2946-2980 -- Open 1 hour, weak blow throughout, recovered 30 feet of watery mud, with small amount of black oil on top of tool. ICIP 960#/30 min.; FCIP 900#/30 min.; IFP 30#; FFP 50#.

- 3003-3007 (220 ft. zone) Limestone oolitic and chalky, no odor, rare show of free oil and dark stains.

ARBUCKLE SECTION

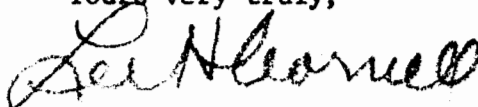
- 3096-3125 T.D. Dolomite, pale brown to gray, medium crystalline, cherty, good vugular porosity in part. No odor, no free oil, rare pieces (in 3110-15 sample) with partial staining. Not considered worthy of a DST.

Because of a lack of elevation as compared to surrounding dry holes and because of the negative DST's in the Lansing, it was recommended that No. 1 Krug-Smith be abandoned at 3126, a penetration of 30 feet in the Arbuckle.

It is the writer's opinion that the shows of oil noted in the 30 foot, 45 foot and 180 foot zones were comparable to shows of oil in wells successfully completed in wells in the Brundage and S & S Ranch pools in 12-15W.

Since this well had good shows of oil in the Lansing, only 3 feet of Conglomerate and a stain in the Arbuckle and still was relatively high as compared to surrounding dry holes, it is recommended that the NE $\frac{1}{4}$  of Section 19 and the NW $\frac{1}{4}$  and W/2 NE $\frac{1}{4}$  of Section 20 be retained and that the remaining acreage in Sections 19, 20, 29 and 30 be dropped.

Yours very truly,



Lee H. Cornell

LHC:ws