18-14-11W

KOESTER & CORNELL
Petroleum Geologists
PHONE AMHERST 2-3521
302 ORPHEUM BUILDING
WICHITA 2, KANSAS

EDWARD A. KOESTER
LEE H. CORNELL

August 7, 1957

Mast Drilling, Inc.
Box 33
Russell, Kansas

Re: No. 1 Stoppel
SE SE NW 18-14-11W
Russell County, Kansas

Gentlemen:

The following is my report on the above captioned well.

One foot drilling time was kept and five foot samples saved from 2500 to total depth. All samples were examined and drilling progress was observed at the well from 2725 to total depth. Samples were saved through the Fort Riley Section, but were not examined by the writer. Well samples were delivered to the Kansas Well Log Bureau and a copy of the drilling time will be sent to the Kansas Well Log Bureau at the completion of this report. The original time log is returned herewith.

Copies of the Halliburton electric log were distributed as follows:

Mast Drilling	5 copies
Tennessee Gas	3 copies
Irv Hardman	1 copy
Lee Cornell	1 copy

MISCELLANEOUS DATA

Contractor: Mast Drilling, Inc. Rig No. 1
Surface Hole: July 28, 1957
Surface Casing: 8-5/8" at 320', cemented with 160 sacks
Drilling Completed: August 5, 1955, T.D. 3230
Elevation: 1707 Gr.; 1710, D.F.; 1712, Rotary Bushing
Zero Point: Top Rotary Bushing

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FORMATION TOPS

	By Samples and Drilling Time		By Halliburton	
Anhydrite (driller)	550	+1162	549	+1163
Heebner	2753	-1041	2752	-1040
Toronto	2771	-1059	2770	-1058
Douglas	2785	-1073	2784	-1072
Iatan	2839	-1127	2738	-1126
Lansing	2852	-1140	2852	-1139
Base Kansas City	3141	-1429	3138	-1426
Cherty Conglomerate	3189	-1477	3186	-1474
Arbuckle	3204	-1492	3204	-1492
Total Depth	3230	-1518	3229	-1517

LANSING SECTION

2856-58 Fine to medium crystalline limestone, trace poor porosity, no odor, no free oil, no stain.

2882-84 "30 Foot Zone" Oolitic and oolicastic, cherty limestone, poor porosity, no odor, no free oil, no stain.

2905-10 "60 Foot Zone" Fine crystalline, fossiliferous limestone, pin-point porosity, spotted light stain, no odor, no free oil. (Halliburton - 9% porosity, 80% water saturation)

2933-38 "80 Foot Zone" Oolitic and oolicastic limestone, no odor, no free oil, no stain.

2944-50 "90 Foot Zone" Oolitic and oolicastic limestone, no odor, no free oil, no stain.

3032-36 "180 Foot Zone" Oolicastic limestone, no odor, no free oil, no stain.

Texas Co - 3030 -

CONGLOMERATE SECTION

3189-3204 Red and gray shales, multi-colored, partly oolitic chert, some medium to large, round to sub-round frosted sand grains, some clear, angular, quartzitic sand grains, no odor, no free oil, no stain.

ARBUCKLE SECTION

3204-07 White finely crystalline dolomite, no porosity.

3207-30 Gray and light brown, fine to medium crystalline dolomite, rare pieces with poor inter-crystalline porosity. No odor, no free oil, no stains.

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BIT RECORD

No.	Size	Make	Type	Depth	Footage	Hours
1	7-7/8	Hughes	OWV Re-Tip	320- 645	325	6-3/4
2	"	"	OSC3-J	645-1635	990	25-1/2
3	"	"	OWV Re-Tip	1635-1745	110	5-1/2
4	"	"	OSC	1745-2590	855	36
5	"	"	OWV	2590-2881	291	26-1/4
6	"	"	OWV	2881-2984	103	13
7	"	"	OWV	2984-3135	151	18-1/2
8	"	"	W7	3135-3230	95	14

DAILY PROGRESS

July 28 Surface Hole (Daylight Tour) Set surface, job completed 6:15 P.M.
July 29 TD 320 WOC Start under surface 5:15 P.M.
July 30 Drilling 1065
July 31 " 1670
Aug. 1 " 2200
Aug. 2 " 2630
Aug. 3 " 2870
Aug. 4 " 3023
Aug. 5 " 3175 TD 3230 @ 4:10 P.M.

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COMMENT

Structurally, No. 1 Stoppel was from 1 foot to 33 feet lower on the Lansing than all surrounding dry holes, except one well about 1-1/4 miles northwest. On the Arbuckle, No. 1 Stoppel is 31 feet lower than a high, dry hole 1-3/4 miles northeast and from 5 to 20 feet higher than all other surrounding dry holes.

Because of the lack of shows of oil and because of its unfavorable structural position as compared to surrounding dry holes, it was recommended that No. 1 Stoppel be abandoned at 3230, total depth, a penetration of 26 feet in the Arbuckle.

Yours very truly,

Lee H. Cornell

LHC:bjl

Copies to: Tennessee Gas (3)
Irv Hardman (1)
M. J. Ingram (1)