

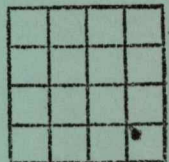
WELL LOG BUREAU—KANSAS GEOLOGICAL SOCIETY
508 East Murdock, Wichita, Kansas

Company- CITIES SERVICE OIL CO.
Farm- Haverhill U. No. 70

SEC. 22 T. 27 R. 5E
NW SE SE
880' N 830' W SE cor.

Total Depth. 2773'
Comm. 4-28-56 Comp. 5-4-57
Shot or Treated.
Contractor. White & Ellis Drlg. Co.
issued. 6-15-57

County Butler
KANSAS



Elevation. 1348' RTB. (5' above G.L.)
Production. 25 BO - 254 BW - 24 hrs.

CASING:
10 3/4" 144' w/125 sx cem.
7" 2745' w/200 sx cem.

Figures indicate Bottom of Formations.

soil	2	2737 $\frac{1}{2}$ -2737 3/4 P.S.O.S.
clay	11	
lime	129	Ran Schlumberger & microlog.
shale	135	
lime	225	
red rock	235	
shale-lime	460	
shale	800	
lime-shale	950	
sdv shale	1205	
lime-sand	1238	
lime-shale	1445	
lime	1483	
shale	1541	
lime	1570	
shale sdv	1793	
lime	2021	
shale-lime	2040	
shale	2183	
lime	2345	
shale	2370	
shale-lime	2585	
lime	2630	
shale	2729 $\frac{1}{2}$	
Core #1	2738 $\frac{1}{2}$	
sdv shale	2740	
Core #2	2770	
sand	2772	
shale	2773	
Total Depth		

Core #1 2729 $\frac{1}{2}$ -2738 $\frac{1}{2}$ ' (9') (Rec. 9')
2737-2737 $\frac{1}{2}$ S.S.F.O.
2737 3/4-2738 $\frac{1}{2}$ F.S.F.O.
Core #2 2740-2770' (30') (Rec. 30')
2741 $\frac{1}{2}$ -2741 3/4 V.S.S.O.
2744-2744 $\frac{1}{2}$ S.S.O.
2751-2752 S.S.O.
All Measurements fr RTB

Steel Line Meas.	S.H.S.
1111' - 1111'	1111' O.K.
1615' - 1615'	1615' O.K.
2205' - 2205'	2205' O.K.
2614' - 2614'	2614' O.K.

Top Lansing Ls.	1867	
Base	2020	
Top Kansas City Ls.	2182	
Base	2380	
2182-2200' S.O.S.		
2200-2223' P.S.O.S.		
Top Ft. Scott Ls.	2525	
Base	2597	No oil noted.
Top Bartlesville Ss.	2737	
Base	2771	

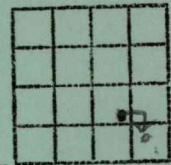
22-27-5E

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

Company- CITIES SERVICE OIL COMPANY
Farm- Haverhill U. No. 70

SEC. 22 T. 27 R. 5E
SE NW SE SE
880' N & 830' W of
SE corner
County Butler
KANSAS

Total Depth. 2773'
Comm. 4-28-56 Comp. 5-4-56
Shot or Treated.
Contractor. White & Ellis Drlg. Co.
Issued. 10-20-56



CASING:

10 3/4" @ 114' w/125 sx cem.
7" @ 2745' w/200 sx cem.

Elevation. 1348' RTB

Production. 25 BO 245 BW 24 hrs.

Figures indicate Bottom of Formations.

ALL MEASUREMENTS FROM R.T.B.

soil	2	Steel Line Measurement	S.H.S.	5-22-56	Pumped 40 bbls.
clay	11	1111' - 1111'	1111'-O.K.	oil 3	BW 5 hrs.
lime	129	1615' - 1615'	1615'-O.K.	5-23-56	Pumped 51 bbls oil
shale	135	2205' - 2205'	2205'-O.K.	170	BW 21 hrs. NPO
lime	225	2614' - 2614'	2614'-O.K.	5-24-56	Pumped 13 bbls oil
red rock	235			73	BW 8 hrs. NPO
shale & lime	460	TOPS:			Install pumping unit.
shale	800	Lansing Ls 1867' (-519)		5-25-56	Pumped 14 BO 127 BW
lime & shale	950	Base 2020	No oil	24	hrs. NPO
sandy shale	1205	Kansas City Ls. 2182' (-834)			
lime & sand	1238	Base 2380'		5-26-56	Pumped 61 BO 195 BW
lime & shale	1445	2182-2200' Ls., low to sl.		24	hrs. NPO
lime	1483	med. por., sl. oil stain.		6-10-56	Pumped 21 BO 249 BW
shale	1541	2200-2223' Ls., low to sl.		24	hrs. NPO (5 bbls. new
lime	1570	med. por., possible sl.			oil)
shale, sandy	1793	oil stain.		6-12-56	Pumped 25 BO 245 BW
lime	2021	Ft. Scott Ls. 2525' (-1177)		24	hrs. NPO
shale & lime	2040	Base 2597'	No oil		
shale	2183	Bartlesville Ss. 2737' (-1389)		6-13-56	Pumped 24 BO
lime	2345	Base 2771'		244	BW 24 hrs. NPO
shale	2370	2737-2737 1/2 Sh., sdy., vy. fn.			
shale & lime	2585	gr., low por. & sat., gassy.			
lime	2630	2737 1/2-2737 3/4 sh., sl. sdy.,			
shale	2729 1/2	tight, possible sl. oil stain.			
Core #1	2738 1/2	2737 3/4 2755 sd. vy. fn. to			
sandy shale	2740	fn. gr., sh. strks., low to med.			
Core #2	2770	por. & sat.			
sand	2772	2755-2771 Sd., fn. to med. gr.,			
shale	2773	low to med. por. & sat.			
Total Depth		Ran Schlumberger electric log			
		& Microlog.			

Core #1 2729 1/2-2738 1/2' (9') Drill In:
 (Rec. 9') 5-10-56 M.I.C.T.
 2729 1/2-2737 shale, N.S.O. 5-11-56 C.O. to T.D. F. U.
 2737-2737 1/2 " S.S.F.O. 75' oil - 500' wtr. -8 hrs.
 2737 1/2-2737 3/4 shale, sl. oil strain
 2737 3/4-2738 1/2 sand F.S.F.O. 5-12-56 Pumped (mach.) 7
 Core #2 2740-2770' (30') B.O. -50 B.W. 12hrs. P.O.
 (Rec. 30') (nat.) (14-100-24)
 2740-2741 sand, low-sl. med. 5-15-56 Ran dye photo test.
 por. & sat. 2741-2741 1/2 sand, Wtr. coming in from 2772-2773'
 low por. & sat. 2741 1/2-2741 3/4
 shale, V.S.S.O. 2741 3/4- 5-16-56 P.B. w/45 gals. plastic
 2744 sand, low por. & sat. 2773' to 2765'
 2744-2744 1/2 shale, S.S.O. 2744 1/2- 5-17-56 Swb. T. oil-22 bbls
 2747 1/2 sand, low por. & sat., fair wtr. 9 hrs.
 bleed. 2747 1/2-2748 shale, faint 5-18-56 Bailed 7 gals. oil
 oil stain. 2748-2751 sand, low 285' wtr. 3 hrs.
 por. & sat. 2751-2752 shale, S.S.O.
 2752-2754 sand, med. por. & sat. 5-20-56 Set packer @2718'
 2754-2758 sand, low por. & sat. & fractured w/8600 gals.
 2758-2765 sand, sl. med. por. gel & 13,000#, 20-40 sd.
 & sat. 2765-2765 1/2 sand, S.S. O. @1900# pressure, used
 2765 1/2-2770 sand, low por. & sat. 533 bbls. load oil.
 5-20-56 Flow back 7 bbls.
 oil. Rant T. & R.
 5-21-56 Pumped (mach.) 40 bbls.
 oil in 5 hrs. sand up.