

WELL RECORD

Company Cities Service Oil Co. Well No. 4 Farm Krueger Unit, Tr. #1
 Location 990' North and 330' East of S.W. Corner Sec. 35 T. 10 R. 16W
 Elevation 2071 (2068 Gr.) County Rooks State Kansas
 Drig. Comm. February 3, 1951 Contractor Barbour Drilling Company
 Drig. Comp. February 17, 1951 Acid 4500 gals. (see below)
 T.D. 3566' P.B.T.D. 3539'
 Initial Prod. Physical Potentials: 12% oil, 18% water, 24 hrs. (4-4-51)

CASING RECORD:

8-5/8" @ 280' cem. 175 sx cement
 5-1/2" @ 3566' cem. 225 sx cement

FORMATION RECORDS:

clay & lime	0-75
shale	190
shale & shells	925
red bed	1220
anhydrite	1255
shale & shells	1285
red bed & shells	1345
shale & shells	1950
lime & shale	2085
shale & lime	2190
lime & shale	2475
shale & lime	2655
lime	2755
shale & lime	2890
lime	3098
lime & shale	3145
lime	3550
lime & shale	3569
lime & chert	3571

3571 RTD = 3566 SIM

Corr. Top Topeka	2948'
Corr. Top Heebner	3185'
Corr. Top Dodge	3205'
Corr. Top Lansing	3230'
Corr. Top Conglomerate	3555'
Penetration	11'
Total Depth	3566'

Drilled cement to 3539 S.L.M.

Perf. 63 shots 3281-98; show oil.

2-23-51 Acidized 1500 gals. 3281-98.
Pmpd. 2 oil, 4 wtr., 8 hrs.Set Lane-Wells plug at 3277; dumped
1 gal. rock on plug; PBTD 3276 SIM.Perf. 52 shots 3262-75; 16 gals. oil
in 30 mins.; 136 gals. oil, 51 gals.
water, 7 hrs.2-26-51 Acidized 1500 gals. 3262-75.
2-28-51 Pmpd. 6 oil, 21 wtr., 23 hrs.

Perf. 24 shots 3231-37

Perf. 24 shots 3207-13

3-2-51 Acidized 500 gals. 3231-37.

3-2-51 Acidized 1000 gals. 3207-13.

3-5-51 Pumped 77 oil, 32 water, 24 hrs.

Drove and drilled Lane-Wells plug to 3539.

SYFO:	500'	1°
	1000'	1°
	1500'	1°
	2000'	0°
	2500'	0°
	3000'	0°
	3500'	0°

7-7/8" rotary hole.