

WELL RECORD.

Company Cities Service Oil Co. Well No. 3 Farm Krueger Unit, Tract No. 4  
 Location 330° South and 330° East of N/4 Corner Sec. 3 T. 11 R. 16W  
 Elevation 2087 (2084 Gr.) County Ellis State Kansas  
 Drlg. Comm. April 18, 1950 Contractor Holm Drilling Company  
 Drlg. Comp. May 2, 1950 Acid 4500 gals. (see below)  
 T.D. 3560' P.B.T.D. 3524'  
 Initial Prod. Physical Potential: 238 oil, 7 water, 2 1/2 hrs. (7-12-50)

CASING RECORD:

8-5/8" @ 315' cem. 175 sx cement  
 5-1/2" @ 3560' cem. 175 sx cement

FORMATION RECORD:

lime	0-70
shale & shells	540
sand	565
sand & shale	800
sand	870
shale & shells	1245
anhydrite	1280
shale & shells	1630
salt, shale & shells	1755
shale & shells	1825
shale & lime	2220
lime and shale	2380
shale & lime	2655
lime & shale	2985
lime	3560

3560 RTD = 3560 SIM

Top Topoka	2983'
Top Dodge	3243'
Top Lansing	3269'
Penetration	291'
Total Depth	3560'

Drilled cement to 3527 SIM.

Perf. 37 shots 3365-72

5-16-50 Acidized 1000 gals. 3365-72  
 5-17-50 Pumped 226 water, trace oil,  
 11 hrs.

Perf. 2 1/2 shots 3350-56  
 " 26 shots 3239-46

Squeezed perforations 3239-3356 with 100 sacks cement; 69 sacks through perforations at 1500#.

Drilled cement and cleaned out to 3524 SIM.

Perf. 54 shots 3313-27, show oil.  
 " 33 shots 3294-3302, show oil.  
 " 36 shots 3265-74, show water.  
 " 42 shots 3240-48, show oil.

240° oil, 60° water, 10 hrs.

Acidizing Record 5-27-50

1500 gals. 3313-27  
 1000 gals. 3294-3302  
 1000 gals. 3240-48

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

7-7/8" rotary hole.