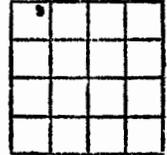


WELL LOG BUREAU—KANSAS GEOLOGICAL SOCIETY  
508 East Murdock, Wichita, Kansas

Company- SHIELDS OIL PRODUCERS & COOP REFINING SEC. 31 T. 13 R. 14  
Farm- Bichel No. 3 ASSN NE NW NW

Total Depth. 3313'  
Comrn. 8-5-57 Comp. 8-16-57  
Shot or Treated.  
Contractor. Shields Drilling Co., Inc.  
Issued. 11-9-57

County Russell  
KANSAS



CASING:  
8 5/8" 910 cem w/425 sx  
5 1/2" 3303' cem w/75 sx

Elevation. 1867' RB

Production. 25 BOPD

Figures indicate Bottom of Formations.

Surface soil, lime, clay, rock	175'
Shale, shells & sand	350'
Shale & shells	385'
Pyrite	410' ✓
Sand & iron	420' ✓
Shale	560'
Red bed	725'
Red bed & shale	900'
Anhydrite	945'
Shale, shells & red bed	1170'
Shale, salt, shale & shells	1585
Lime & shale	1920
Lime & shale streaks	2145
Shale & lime	2350
Shale, lime streaks	2688
Lime	2756
Lime & shale	2968
Lime	3313
Total Depth	RTD

TOPS:  
Topeka 2749  
Heebner 2978  
Toronto 2996  
Lansing - Kansas City 3026  
Arbuckle 3295

DST #1 3067-3080 Tool open 20 min w/weak blow for 4 min. Rec. 10' mud. BHP-712#/20 min.

DST #2 3300-33-6 Tool open 1 hr. w/weak blow for 4 min. Rec. 5' mud.

DST #3 3303-3313 Tool open 1 hr. w/good blow thruout. Rec. 300' clean oil, 15' muddy oil. IFP-0#, FFP-152#, BHP-815#/20 min.