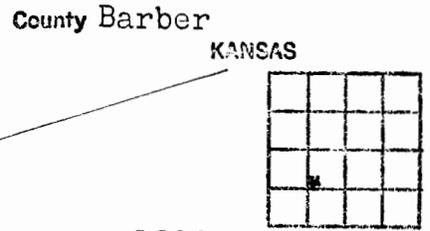


WELL LOG BUREAU--KANSAS GEOLOGICAL SOCIETY
508 East Murdock, Wichita, Kansas

Company- NATIONAL COOPERATIVE REFINERY ASS'N SEC. 7 T. 32 R. 14W
Farm- Stumph-Smith No. 2 C SW NE SW

Total Depth. 5117
Comm. 10-19-52 Comp. 11-21-52
Shot or Treated.
Contractor. Mid-America Drillers, Inc.
Issued. 2-21-53



CASING:
8 5/8 set at 496' w/ 250 sx cement

Elevation. 1920

Production. 34 bbls / 38 wtr

Figures indicate Bottom of Formations.

shale & sand	190
red bed & shale	1215
shale & shells	2185
lime & shale	2390
lime	2460
lime & shale	2560
shale & shells	2650
lime & shale	2720
shale	2975
shale & shells	3245
shale & lime	3650
lime	3710
sandy shale & lime	3795
broken lime	3885
lime & shale	3995
shale	4050
shale & lime	4110
shale & shells	4127
sand	4153
shale & lime	4200
lime	4595
lime & shale	4845
lime	4917
sandy shale	5050
sandy lime & shale	5117
Total Depth	
SCOUT TOPS:	
Douglas	4130
Viola	4818
Simpson shale	4935
Simpson sand	4943
Arbuckle	5060