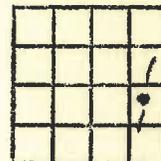


WELL LOG BUREAU--KANSAS GEOLOGICAL SOCIETY
508 East Murdock, Wichita, Kansas

Company NATIONAL COOPERATIVE REFINERY ASS'N. SEC. 35 T. 16 R.11W
Farm Nagel No. 1 NW NE SE

Total Depth. 3402
Comm. 11-22-54 Comp. 12-2-54
Shot or Treated.
Contractor. Murfin Drilling Co.
Issued. 1-15-55

County Barton
KANSAS



Elevation. 1926 KB

Production. Dry

CASING:

8 5/8 @ 261' w/ 160 sx cmt.
5 1/2 @ 3394' w/ 75 sx cmt.

Figures Indicate Bottom of Formations.

shale & shells	600
red rock & shale	690
red bed & shale	740
anhydrite	765
shale & shells	1185
salt & shale	1360
shale, lime & shells	1425
shale & lime	1880
lime	1965
lime & shale	3260
lime	3310
lime & shale	3370
conglomerate	3400
lime	3402
Total Depth	

TOPS:

Heebner	2970
Toronto	2988
Douglas	3000
Brown lime	3068
Lansing	3084
Conglomerate	3372
Arbuckle	3392