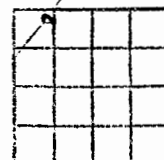


WELL LOG BUREAU--KANSAS GEOLOGICAL SOCIETY
508 East Murdock, Wichita, Kansas

Company- COOPERATIVE REFINERY ASSN. & NORTHERN PMP SEC. 5 T. 12 R. 18W
Farm- Kreutzer No. 1 NE NW NW

Total Depth. 3565'
Comm. 7-23-57 Comp. 8-4-57
Shot or Treated.
Contractor. Cooperative Refinery Assn.
Issued. 11-2 -57

County Ellis
KANSAS



CASING:

8 5/8" 253' cem w/150 sx

Elevation. 2052 RB

Production. Dry

Figures indicate Bottom of Formations.

Clay, postrock, shale	252
Cement	260
Shale & sand	1350
Shale	1368
Anhydrite	1410
Shale & shells	1920
Shale & lime	2195
Lime & shale	2305
Lime & shells	2354
Shale	2385
Lime & shale	2520
Lime & shell	2645
Shale, lime, shells	2730
Lime & shale	2980
Shale, sand	3080
Lime & shale	3180
Shale & lime	3240
Lime & shale	3365
Lime	3455
Lime & shale	3515
Lime	3550
Lime & shale RTD	3565
Total Depth	

TOPS: (Scout)	
Heebner	3289
Toronto	3310
Lansing	3333