

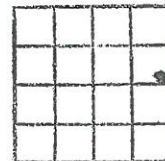
WELL LOG BUREAU - KANSAS GEOLOGICAL SOCIETY
 503 East Murdock, Wichita, Kansas

Company- FRONTIER OIL CO.
 Farm- Kraus "A" No. 3

SEC. 21 T. 14 R. 19W
 SE SE NE

Total Depth. 3751'
 Comm. 8-24-59 Comp. 9-4-59
 Shot or Treated.
 Contractor. Red Tiger Drlg.
 Issued. 12-12-59

County Ellis
 KANSAS



Elevation. 2133' DF

Production. 79 BOPD

CASING:

8 5/8" 204' cem w/135 sx.
 5 1/2" 3749' cem w/150 sx.

Figures Indicate Bottom of Formations.

surface clay	40
blue shale	202
shale & shells	650
sand & shale	845
sand	1060
red bed & shells	1290
red bed & shale	1405
Anhydrite	1446
shale shells	1560
shale & shells	1850
shale & lime	1975
lime & shale	2190
lime shale	2400
lime & shale	2685
lime shale	2825
lime & shale	3075
lime shale	3185
lime & shale	3330
lime shale	3405
lime & shale	3461
lime	3665
lime & shale (cherty)	3715
lime	3733
Conglomerate	3746
Arbuckle	3749
lime	3751 RTD
lime	3752
Total Depth	

TOPS:

Anhydrite	1405
Heebner	3384
Lansing-Kansas City	3430
Base Kansas City	3675
Marmaton Lime	3691
Conglomerate	3726
Arbuckle	3745