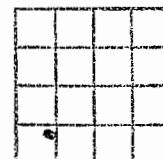


WELL LOG BUREAU—KANSAS GEOLOGICAL SOCIETY
508 East Murdock, Wichita, Kansas

Company- NATIONAL COOPERATIVE REFINING ASSOCIATION SEC. 27 T. 20 R. 12W
Farm- Bryant No. 4 NE SW SW

Total Depth. 3407'
Comm. 9-20-57 Comp. 10-4-57
Shot or Treated.
Contractor. Adkins Drilling Company, Inc.
Issued. 11-2-57

County Barton
KANSAS



CASING:

8 5/8" 287' cem. w. 200 sx
5 1/2" 3401' cem. w/75 sx

Elevation. 1838

Production. 118 BOPD

Figures indicate Bottom of Formations.

Sand & Surface Clay	70
Sandy Shale	295
Cement	294
Plug	295
Red Bed	595
Chalk (Anhydrite)	615
Shale	755
Shale & Shells	1440
Lime	1685
Shale & Lime	1740
Shale	2945
Lime & Shale	3029
Lime w/shale streaks	3095
Lime & Shale	3193
Lime	3402
Lime (Arbuckle) RTD	3407
Total Depth	

TOPS: (Scout)

Anhydrite	595
Heebner	3022
Toronto	3038
Douglas	3055
Brown Lime	3151
Lansing	3166
Arbuckle	3399

DST #1 3378-3402 20 Min EBHP Tool open 1 hr. Shut in 20 min.
Weak blow for 30 min. By pass tool weak blow 13 min. Rec. 26' Drlg. Mud.
DST #2 Tool open 1 hr. Shut in 20 min.
DST #3 3407' 20 min. shut in Pres. Tool open 1 hr. 20 min. BHP.
Rec. 45 ft. oil and gas cut mud.