

29-19-21W

KANSAS GEOLOGICAL SOCIETY
KANSAS WELL LOG BUREAU - KANSAS WELL SAMPLE BUREAU
 KANSAS GEOLOGICAL SOCIETY BUILDING
 508 EAST MURDOCK - WICHITA, KANSAS

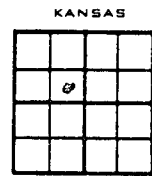
COMPANY CITIES SERVICE OIL CO.

SEC. 29T. 19 R. 21W
 LOC. SE. NE SE NW
 1874' FNL & 1874' FWL

FARM Rein "A" NO. 5

COUNTY Ness

TOTAL DEPTH 4459'
 COMM. 10-10-67 COMP. 10-24-67
 SHOT OR TREATED
 CONTRACTOR Gabbert-Jones, Inc.
 ISSUED 12-23-67



CASING

20	10	
15	8 5/8	498' w/275 sx cem.
12	6	
13	5 1/2	4459' w/150 sx cem.

ELEVATION 2314' KB

PRODUCTION 44 BO, 0.4 BWPD

FIGURES INDICATE BOTTOM OF FORMATIONS

CASING RECORD:

8-5/8" set @ 498' w/ 275 sx
 4-1/2" set @ 4459' w/ 150 sx

FORMATION RECORD:

surface clay	0-75'
shale	190
sand & shale	320
shale & shells	500
shale	501
shale	720
red bed	820
red bed & sand	1250
shale	1544
anhydrite	1576
shale & lime	2385
lime	2785
lime & shale	2915
lime	2970
lime & shale	3660
sandy lime & shale	3795
lime & shale	4275
lime	4449
lime, shale & chert	4459 TD

DRILL STEM TESTS:

- #1, 4434-49', Mississippi-Warsaw & Osage, packer failed; set 2' high.
- #2, 4437-49', Mississippi-Warsaw & Osage, packer failed.
- #3, 4399-4449', Cherokee, Miss.-Warsaw & Osage, 30-30-30-30, very weak blow first 30 mins. open, no blow second 30 mins. open, flushed tool after 15 mins. of second opening, few bubbles and died; rec. 75' mud; ISIP 789#, IFP 55#, FFP 83#, FSIP 734#.
- #4, 4448-59', Miss.-Osage, hit bridge at 4434', trip and condition hole.
- #5, 4448-59', Miss.-Osage, packer failed.
- #6, 4452-59', Miss.-Osage, 30-30-60-30, good blow throughout test; rec. 560' gas in D.P., 825' free oil, 60' muddy oil, 80' oil-cut mud and 40' watery mud; ISIP 935#, IFP 37#, FFP 376#, FSIP 770#.

ELECTRIC LOG TOPS:

Heebner	3802 (-1488)
Toronto	3820 (-1506)
Lansing	3850 (-1536)
Kansas City Base	4174 (-1860)
Ft. Scott	4348 (-2034)
Conglomerate	4416 (-2102)
Miss.-Warsaw	4428 (-2114)
Miss.-Osage	4438 (-2124)

COMPLETION:

Drill out to 4455 1/2, PBTD.
 Ran Bond log. Top good cem. 4210'.
 Contaminated cem. to 3888'.
 Perf. Miss. 4448-54.
 400' fillup oil, 13 hrs.
 Acidized with 250 gals. 7 1/2% MCA.
 Swabbed.
 Ran 2" tbg. to 4446'.
 Pumped 44 bbls. oil, 0.4 bbl. water, 24 hrs.

SLOPE TESTS:

425', 1/4°
 800', 3/4°
 1325', 1°
 1790', 1°
 2385', 1/4°
 2700', 3/4°
 3357', 1 1/2°
 4010', 1 1/2°
 4450', 1 1/2°