

GEOLOGICAL REPORT

Dan A. Nixon, Petroleum Geologist - Licensed & Certified

Well Name: #5 Jacobs

Location: 1705' FNL, 1900' FEL
(approx. N/2 SW NE)
Section 24, T13S-R19W
Ellis County, Kansas

Operator: R.P. Nixon Oper., Inc.
207 West 12th Street
Hays, KS 67601-3898

Contractor: Discovery Drilling, Rig #2
P.O. Box 763
Hays, Kansas 67601

Elevation: Central Kansas Surveying and Mapping
2344 Washington
Great Bend, Kansas 67530
Rotary Bushing: 2062'
Ground Level: 2054'

Samples: Ten foot samples from 3050'
to 3300' and five foot samples
from 3300' to 3720'.

Time Log: One foot intervals from 3050'
to 3720' RTD. A copy of the
time log is included in this report.

Surface Casing: 8 5/8" @ 225' w/150 sx. of 60/40 Pozmix

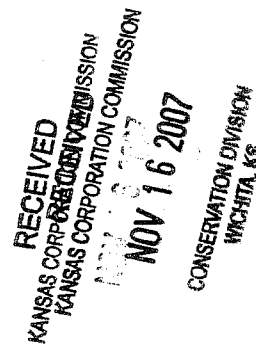
Production Casing: None - D & A

Port Collar or DV Tool: None - D & A

Spud Date: 6-13-04

Completion Date: 6-17-04

API #: 15-051-25280-0000



FORMATION TOPS:	SAMPLE DEPTH	LOG DEPTH	MINUS DATUM
Anhydrite (driller's)	1337'	1336'	+726
Anhydrite Base (driller's)	1381'	1379'	+683
Topeka	3078'	3080'	-1018
Heebner Shale	3323'	3323'	-1261
Toronto Lime	3342'	3342'	-1280
Lansing	3375'	3376'	-1314
Base of the Kansas City	3583'	3583'	-1521
Conglomerate Chert	3660'	3660'	-1598
Total Depth	3720'	3720'	-1658

SAMPLE ANALYSIS OF ZONES OF INTEREST: (corrected to the electric log)

Toronto 3344'-47' Dense, fine crystalline, dense light grey limestone with poor intercrystalline porosity. Barren of any staining with no shows of free oil or odor in the wet samples. Calculated 12% porosity and 31% water saturation on the electric log. Not worthy of testing.

Lansing 3397'-3401' Chalky, white, vuggy, fine crystalline limestone with fair porosity. Rare spotty stain with trace of spotty stain. No show of free oil or odor in wet samples. The electric log indicated this zone to have 13% porosity and 22% water saturation. Tested all water on the structurally higher #2 Jacobs well to the north. Decided not to test based on this information.

3415'-17' Slightly vuggy, fine crystalline, white limestone with barren to rare spotty stain. No show of free oil or odor in wet samples. Calculated 14% porosity and 35% water saturation on the electric log. Not worthy of testing.

3443'-48' Vuggy, fine crystalline, white limestone, spotty stain, fair vugular porosity. Slight show of free oil and odor in wet samples. Indicates wet on electric log. Open on drill stem test #1.

Drill Stem Test #1 Results:

Interval: 3426'-90'
 Times: 15"-30"-60"-30"
 Recovered: 80' mud with a few oil specks
 Initial flow pressures: 0 to 15 psi with weak 1" blow
 Initial shut-in pressure: 706 psi
 Final flow pressures: 0 to 19 psi with weak 1" blow
 Final shut-in pressure: 621 psi
 Bottom hole temp: 111° F

*NOTE: The Alpine recorder was inaccurate for this test.

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Lansing (cont.) 3501'04' Vuggy, fine crystalline, saturated limestone, with poor to fair vugular porosity. Had only a slight show of free oil, but a strong odor in the wet samples. Calculated 9.5% porosity and 30% water of the electric log. Open on drill stem test #2.

3543'-46' Dense, fine crystalline, white and off-white lime, poor intercrystalline and vuggy porosity with spotty stain. Had a very slight show of free oil and odor in the wet samples. Open on drill stem test #2.

Drill Stem Test #2 Results: Interval: 3486'-3554'
 Times: 15"-30"-60"-30"
 Recovered: 540' gas in pipe, 75' gas cut muddy oil
 (20% gas, 50% oil, 30% mud)
 Initial flow pressures: 15-26 psi
 Initial shut-in pressure: 584 psi
 Final flow pressures: 24-42 psi
 Final shut-in pressure: 617 psi
 Bottom hole temp: 109° F


Cherty Conglomerate 3660'-3720' Blocky, opaque, white, red, buff chert. Weathered in part with a slight trace of dead oil stain. Occasional pink, blocky, opaque chert, no shows. Abundant amount of red, grey, black, green shales.

REMARKS:

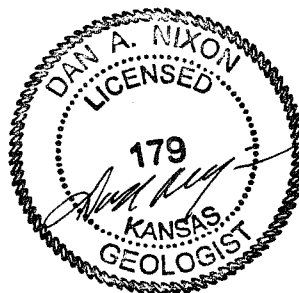
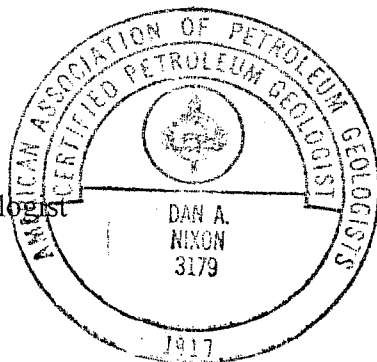
Structurally, the Lansing top on the #5 Jacobs ran 12' low to the Lansing producer to the north about 1 location and east about 1/2 location, the #2 Jacobs (R.P. Nixon Oper.). It was also 9' low to the Lansing and Arbuckle producer to the east about 1 1/2 locations, the #1 Jacobs (R.P. Nixon Oper.). The #5 Jacobs was also 4' low to the dry hole to the northwest, the #1 Sack (D.G. Hansen Trust). The Arbuckle formation was not encountered in the #5 Jacobs. The minus datum at total depth was -1658, which is 49' low to the Arbuckle top on the same #2 Jacobs and 47' low to both the same #1 Jacobs and #1 Sack.

Based on its low structural position to surrounding production and dry holes, in addition to the results of drill stem tests #1 and #2, the #5 Jacobs was plugged and abandoned.

Respectfully Submitted,



Dan A. Nixon, Petroleum Geologist
 Kansas License #179
 AAPG Certification #3179



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DRILLING TIME LOG

3050'-3075'	1-1-1-1-1	1-1-½-½-1	1-1-2-2-1	2-2-1-2-1	2-2-2-2-1
3075'-3100'	1-1-1-2-2	2-2-2-2-2	2-2-2-2-2	2-2-2-3-2	3-2-2-2-2
3100'-3125'	2-3-2-2-3	1-½-½-1-½	½-½-½-1-1	½-½-1-1-1	1-2-2-2-1
3125'-3150'	2-2-2-2-2	1-2-2-2-2	2-1-2-2-2	2-2-2-1-1	1-1-1-1-1
3150'-3175'	2-2-2-1-1	2-1-1-1-1	1-1-2-2-2	2-½-½-1-1	1-1-2-1-1
3175'-3200'	1-1-1-1-1	1-1-1-1-1	1-2-2-1-1	1-2-1-1-1	1-2-2-1-1
3200'-3225'	1-1-2-2-1	1-1-2-2-2	1-1-2-1-1	2-2-1-1-1	1-1-1-2-2
3225'-3250'	1-1-2-2-1	1-1-1-1-2	1-2-1-1-1	1-2-2-2-2	2-1-1-1-2
3250'-3275'	2-2-2-2-2	1-2-2-2-1	2-2-1-2-2	2-2-2-2-1	1-2-2-2-2
3275'-3300'	1-2-2-2-2	2-1-1-1-1	2-1-1-1-1	1-2-1-1-2	2-2-2-1-1
3300'-3325'	2-2-2-2-2	1-2-2-1-1	1-1-1-1-2	1-2-2-1-2	1-2-2-1-1
3325'-3350'	1-2-2-2-2	2-2-2-2-2	2-1-1-1-2	1-1-1-1-1	2-2-1-3-2
3350'-3375'	2-3-2-2-2	2-3-2-3-2	2-3-2-1-1	2-2-2-2-2	1-1-1-1-1
3375'-3400'	2-2-2-3-2	2-2-2-2-2	2-2-2-1-1	2-2-1-2-2	2-1-1-1-1
3400'-3425'	1-2-2-2-3	2-2-3-2-2	2-2-2-1-1	1-1-2-2-3	2-2-2-1-2
3425'-3450'	2-2-2-2-2	3-2-2-1-2	2-2-2-2-3	3-3-2-2-2	2-1-2-2-3
3450'-3475'	2-1-1-2-2	2-2-2-2-1	1-1-1-1-1	1-2-3-3-3	3-3-3-3-3
3475'-3500'	3-3-3-3-3	3-3-2-2-3	3-3-3-3-2	2-2-2-3-2	2-2-2-2-2
3500'-3525'	2-2-3-2-2	2-2-2-3-2	2-2-3-3-2	2-3-2-2-2	1-2-2-2-2
3525'-3550'	2-2-3-3-3	3-3-3-2-1	2-2-2-1-1	2-1-1-2-3	2-2-2-2-3
3550'-3575'	3-2-2-2-1	2-3-2-2-2	3-3-3-3-3	3-4-4-4-2	3-2-3-3-2
3575'-3600'	4-3-3-3-3	3-3-2-1-2	1-1-1-1-1	1-2-2-2-2	3-3-3-3-3
3600'-3625'	3-3-3-3-2	3-3-3-2-1	1-3-2-1-2	2-2-2-2-3	2-2-2-1-3
3625'-3650'	2-2-2-3-3	2-3-2-2-2	1-1-1-1-2	1-2-2-2-3	3-2-2-3-3
3650'-3675'	3-2-3-3-2	2-2-2-2-2	2-2-2-2-2	2-1-1-2-2	3-2-2-2-2
3675'-3700'	1-3-2-2-2	2-2-2-2-2	1-1-1-1-1	1-1-1-1-1	1-2-2-2-2
3700'-3720'	1-2-2-2-2	2-2-1-1-2	1-1-1-1-2	2-2-2-2-2	

CFS @ 3490' - 60" CFS @ 3530' - 60"
 CFS @ 3554' - 60" CFS @ 3675' - 60"
 CFS @ 3685' - 60" CFS @ 3691' - 60"
 CFS @ 3700' - 60" CFS @ 3710' - 60"
 CFS @ 3720' - 60" 3720' RTD

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