

GEOLOGICAL REPORT

Dan A. Nixon, Petroleum Geologist - Licensed & Certified

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KCC WICHITA

Well Name: #2 Norbert

Location: 100' south of E/2 NE SW
Section 8, T14S-R21W
Trego County, Kansas

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

Contractor: Shields Oil Producers
P.O. Box 709
Russell, Kansas 67665

Elevation: Central Kansas Surveying and Mapping
2344 Washington
Great Bend, Kansas 67530
Rotary Bushing: 2183'
Ground Level: 2178

Samples: Ten foot samples from 3200'
to 3510' and five foot samples
from 3510' to 4020' RTD.

Time Log: One foot intervals from 3200'
to 4020' RTD. A copy of the
time log is included in this report.

Surface Casing: 8 5/8" @ 219' w/160 sacks

Production Casing: 5 1/2" @ 4018' w/100 sacks ASC cement

Port Collar or DV Tool: DV tool @ 1579' cemented to surface
Spud Date: 8.1.05
Completion Date: 8.10.05

API #: 15-195-22299-00-00

8-14-21W

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FORMATION TOPS:	SAMPLE DEPTH	LOG DEPTH	MINUS DATUM
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Anhydrite (driller's)	1569'	1566'	+617
Anhydrite Base (driller's)	1612'	1610'	+573
Topeka	3260'	3262'	-1079
Heebner Shale	3503'	3506'	-1323
Toronto Lime	3528'	3526'	-1343
Lansing	3540'	3543'	-1360
Base of the Kansas City	3788'	3789'	-1606
Marmaton Chert	3879'	3882'	-1699
Cherokee Shale	3927'	3930'	-1747
Cherokee Sand	3945'	3944'	-1761
Arbuckle Dolomite	4016'	not logged	-1833
Total Depth	4020'	4021'	-1838

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

Lansing	3576'-79'	Dense, fine crystalline, white, chalky limestone, tight with no shows in either the wet or dry samples. Calculated wet on the log. Not worthy of testing.
	3614'-17'	Dense, fine crystalline, white limestone, tight poor intercrystalline porosity and rare spotty stain. No show in the wet samples. Water saturation was 58% with 7% porosity on the log. Not worthy of testing.
	3680'-84'	White, grey, fine crystalline limestone with poor intercrystalline porosity. Samples had spotty stain with trace of saturated stain. Slight show of free oil and odor in the wet samples. Calculated 9-10% porosity and 48-52% water saturation on the electric log. Open on Drill Stem Test #1.

Drill Stem Test #1 Results: Interval: 3666'-3699'
 Times: 15"-30"-10"-30"
 Recovered: 5' of mud with oil spots
 Initial flow pressures: 12 to 17 psi with weak blow that died
 Initial shut-in pressure: 1028 psi with no blow
 Final flow pressures: 19 to 23 psi with no blow
 Final shut-in pressure: 1019 psi with no blow
 Bottom hole temp: 109° F

	3705'-11'	White, bone limestone, fine crystalline, cherty in part. Tight to very poor intercrystalline porosity and spotty dark stain. Trace of saturated stain. Had a slight show of free oil and faint odor in the wet samples. Calculated very tight and wet on the electric log. Open on Drill Stem Test #2.
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Drill Stem Test #2 Results: Interval: 3701'-3737'
Times: 15"-30"-5"-30"
Recovered: 15' mud
Initial flow pressures: 29-43 psi with weak blow that died
Initial shut-in pressure: 72 psi with no blow
Final flow pressures: 42-42 psi with no blow
Final shut-in pressure: 63 psi with no blow
Bottom hole temp: 109° F

3746'-49' Fine crystalline, white limestone, poor intercrystalline porosity, with spotty stain. Originally thought samples were from uphole, but CPI log (Computer Processed Interpretation) indicates 9½% porosity and water saturation below 40%. Should be considered for testing prior to abandoning well.

3772'-77' Oolitic, white limestone, fair to occasionally good oolitic porosity, barren with no shows the wet samples. Not worthy of testing.

Marmaton Chert 3882'-85' Abundant white, orange, brown blocky, opaque chert, with the white chert being weathered in part. Spotty stain with poor pinpoint and weathered porosity. Slight show of free oil and faint odor in the wet samples. Calculated wet on the electric log. Open on Drill Stem Test #3 and #4.

3890'-3909' Chert as above with rare spotty stain also. Very slight show of free oil and odor in the wet samples. Calculated wet on the log. Open on Drill Stem Test #3 and #4.

Drill Stem Test #3 Results: Interval: 3852'-3919'
Packer failure – recovered 2400' mud

Drill Stem Test #4 Results: Interval: 3875'-3919'
Packer failure – recovered 240' mud

Cherokee Sand 3944'-49' Poorly sorted, frosty and occasionally clear, sub-rounded, fine grained, friable sand with light saturation. Had a good show of free oil and odor in the wet samples. Calculated 8-9% porosity and 42-46% water saturation in the electric log. Open on Drill Stem Test #5. This zone should be further tested.

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Drill Stem Test #5 Results: Interval: 3916'-3953'
Times: 15"-30"-60"-30"
Recovered: 900' total fluid
480' clean, gassy oil (20% gas, 80% oil)
420' gassy, mud cut oil (35% gas, 35% oil, 30% mud)
Initial flow pressures: 30-169 psi with a strong blow
Initial shut-in pressure: 932 psi with a weak blow
Final flow pressures: 177-329 psi with strong blow
Final shut-in pressure: 879 psi with weak blow
Bottom hole temp: 123° F

Arbuckle Dolomite 4016'-21' Medium and coarse crystalline, white dolomite, barren and tight. No shows in the wet samples. Not worthy of testing.

REMARKS:

Structurally, the Lansing top on the #2 Norbert ran 2' low to the Arbuckle producer just to the northwest of location, the #1 Honas Unit (R.P. Nixon Oper., Inc.) and flat with the #1 Norbert (R.P. Nixon Oper., Inc.), the Cherokee Sand producer just to the southwest of the #1 Honas Unit.

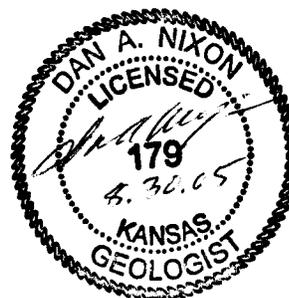
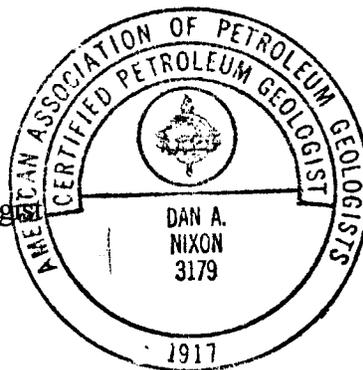
The Cherokee Sand top on the #2 Norbert ran 4' high to the same #1 Honas Unit and 2' low to the same #1 Norbert. The Arbuckle top on the #2 Norbert ran 36' low to the same #1 Honas Unit and 55' low to the same #1 Norbert.

Based on the results of Drill Stem Test #5 covering the Cherokee Sand formation, in addition to the structural position on the #2 Norbert to surrounding Cherokee production, 5½" casing was cemented at 4018' for further testing.

Respectfully Submitted,



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Kansas License #179
AAPG Certification #3179



DRILLING TIME LOG

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3200'-3225'	1-1-1-1-1	1-1-1-2-3	3-2-3-2-3	3-2-2-2-2	2-2-2-2-2
3225'-3250'	1-1-1-2-2	1-2-2-2-1	1-1-1-1-1	1-1-1-1-1	1-1-1-1-1
3250'-3275'	1-1-1-1-1	1-3-2-2-1	2-2-2-2-3	2-3-3-1-1	1-2-2-2-2
3275'-3300'	3-2-2-3-2	2-2-2-2-2	2-2-3-2-2	1-1-2-2-2	2-2-2-1-1
3300'-3325'	1-1-1-1-1	1-1-1-1-1	1-2-2-2-2	3-3-2-3-3	3-3-2-3-2
3325'-3350'	2-2-2-3-3	3-3-3-2-3	3-3-2-3-2	3-3-3-2-1	2-1-1-2-2
3350'-3375'	3-3-2-2-2	2-1-2-1-1	2-1-1-1-1	1-1-1-1-1	1-1-1-1-1
3375'-3400'	1-2-2-2-3	3-3-2-2-2	3-2-2-2-2	2-2-2-2-2	2-3-3-2-2
3400'-3425'	2-1-1-1-1	2-1-1-1-1	1-2-2-2-2	2-1-2-2-3	3-3-3-3-4
3425'-3450'	3-3-2-2-3	3-3-3-3-3	4-3-3-2-3	4-3-4-3-3	3-3-2-2-2
3450'-3475'	2-2-2-3-3	4-3-3-3-3	2-2-2-2-3	3-3-3-3-4	2-1-1-1-1
3475'-3500'	2-3-3-2-3	3-2-3-2-3	3-2-2-3-2	3-2-3-2-3	3-2-2-3-3
3500'-3525'	2-2-2-1½-1½	2-3-3-2-3	3-3-3-2-3	3-3-3-2-3	3-2-1-1-2
3525'-3550'	1-2-2-3-3	2-3-3-3-3	3-3-3-3-2	3-3-3-3-4	3-3-3-3-2
3550'-3575'	3-3-3-2-3	3-3-4-3-3	3-3-3-3-4	4-3½-3½-4-5	4-3-3-3-3
3575'-3600'	2-3-2-2-3	2-3-3-4-4	4-4-3-4-3	2-3-4-3-3	3-4-4-4-4
3600'-3625'	3-3-3-3-3	3-1-5-5-5	4-5-4-3-4	3-3-3-4-4	5-5-3-3-4
3625'-3650'	3-2-3-4-3	2-2-2-2-2	4-5-3-4-4	5-5-4-4-4	4-4-3-2-4
3650'-3675'	4-5-4-3-3	4-5-4-4-4	4-3-4-4-4	4-5-4-4-4	5-4-4-4-2
3675'-3700'	2-2-2-2-3	3-2-2-2-2	3-2-3-3-3	3-4-3-4-3	3-4-3-4-4
3700'-3725'	4-4-3-3-4	4-3-4-4-4	3-4-4-4-3	4-4-4-5-5	5-5-5-4-4
3725'-3750'	3-3-3-4-4	5-5-5-5-6	6-6-3-4-5	4-4-4-5-3	2-1-3-4-4
3750'-3775'	4-4-5-4-5	5-4-5-4-4	4- -4-5-5	4-5-4-5-5	5-3-4-3-4
3775'-3800'	4-3-3-3-3	3-2-3-2-3	3-3-3-4-4	4-4-5-4-3	4-5-3-3-4
3800'-3825'	4-5-4-4-3	3-3-3-4-3	2-3-3-2-3	4-4-3-4-4	6-5-4-6-5
3825'-3850'	5-4-4-3-5	4-5-5-6-6	5-5-5-5-4	5-5-5-5-4	4-3-6-6-6
3850'-3875'	6-6-6-4-5	4-4-4-4-4	4-4-5-5-5	6-5-5-5-5	5-4-5-5-4
3875'-3900'	6-6-5-5-4	3-4-4-5-4	3-3-2-2-3	3-3-3-3-4	4-4-5-4-4
3900'-3925'	5-4-4-4-4	5-4-4-4-4	5-4-5-4-4	5-5-5-4-3	4-5-5-5-5
3925'-3950'	6-5-4-5-5	4-4-4-4-4	5-5-5-5-5	4-3-3-4-4	5-2-3-3-3

DRILLING TIME LOG

3950'-3975'	2-2-4-4-5	3-3-5-3-3	2-3-2-2-2	2-2-2-2-4	3-3-3-2-2
3975'-4000'	3-2-2-2-3	2-3-2-1-2	2-3-3-3-3	2-3-3-2-3	3-3-3-4-3
4000'-4020'	2-2-2-2-2	2-1-2-1-1	1-1-2-2-1	2-3-3-3-2	

4020' RTD

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CFS @ 3590'	CFS @ 3687'	CFS @ 3699'
CFS @ 3737'	CFS @ 3946'	CFS @ 3951'
CFS @ 3970'	CFS @ 3980'	CFS @ 3990'
CFS @ 4000'	CFSD @ 4010'	CFS @ 4020'