9-14-21W

GEOLOGICAL REPORT

Dan A. Nixon, Petroleum Geologist - Licensed & Certified

Well Name:	#1 Pfeifer G Unit
Location:	360' FSL, 2440' FWL (30' N & 130' E of SE SE SW) Section 9, T14S-R21W Trego County, Kansas
Operator:	R.P. Nixon Oper., Inc. 207 West 12th Street Hays, KS 67601-3898
Contractor:	Shields Oil Producers, Inc. P.O. Box 709 Russell, Kansas 67665
Elevation:	Central Kansas Surveying and Mapping 2344 Washington Great Bend, Kansas 67530 Rotary Bushing: 2250' Ground Level: 2245'
Samples:	Ten foot samples from 3300' to 3570' and five foot samples from 3570' to 4100'.
Time Log:	One foot intervals from 3300' to 4100' RTD. A copy of the time log is included in this report.
Surface Casing:	8 5/8" @ 225' w/160 sx. of common cement, 3% CaCl, 2% Gel
Production Casing:	5½" @ 4099'
Port Collar or DV Tool:	Set @ 1647'
Spud Date:	11.08.04
Completion Date:	11.17.04
API #:	15-195-22264-00-00

#1 Pfeifer G Unit 360' FSL, 2440' FWL of Section 9, T14S-R21W Trego County, Kansas

FORMATION TOPS:	SAMPLE DEPTH	LOG DEPTH	MINUS DATUM
Anhydrite (driller's)	1645'	1621'	+629
Anhydrite Base (driller's)	1669'	1665'	+585
Topeka	3319'	3321'	-1071
Heebner Shale	3575'	3572'	-1322
Toronto Lime	3597'	3592'	-1342
Lansing	3613'	3611'	-1361
Base of the Kansas City	3852'	3851'	-1601
Marmaton	3943'	3945'	-1695
1st Cherokee Sand	3994'	3996'	-1746
2nd Cherokee Sand	4007'	4007'	-1757
Arbuckle Dolomite	4023'	4021'	-1777
Total Depth	4100'	4099'	-1849

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

Lansing 3617'-22' Chalky, white, slighty fossiliferous limestone, occasionally cherty, with poor inter-fossil porosity. Rare spotty stain. No show of free oil or odor in the wet samples. Calculated 8-12% porosity and 30-46% water saturation on the electric log. Should be considered for testing prior to abandoning well. Open on drill stem test #1.

3642'-48' Fine crystalline, white, buff limestone with spotty and saturated stain. Poor to fair intercrystalline porosity. Had a fair show of free oil and odor in the wet samples. Calculated 12-17% porosity and 32-43% water saturation on the electric log. Worthy of testing. Open on drill stem test #1.

Drill Stem Test #1 Results:

Interval: 3603'-3661'
Times: 15"-30"-60"-30"
Recovered: 124' gas in pipe
186' total fluid:
124' muddy, gassy oil
(5% gas, 75% oil, 20% mud)
62' muddy, gassy oil
(5% gas, 55% oil, 40% mud)
Initial flow pressures: 19-55 psi (weak blow)
Initial shut-in pressure: 1151 psi (no blow)
Final flow pressures: 64-98 psi (weak, building to good 6" blow)
Final shut-in pressure: 1068 psi (weak ¼" blow)
Bottom hole temp: 106° F

Lansing (cont.)	3682'-86'	Vugular, fine crystalline, white limestone with fair to good vuggy porosity. Spotty dark stain with a show of free oil and odor in the wet samples. Calculated 15-17% porosity and 28-33% water saturation on the electric log. Not worthy of testing. Open on drill stem test #2.
Drill Stem Test #2 Results:		Interval: 3680'-3730' Times: 15"-30"-60"-30" Recovered: 60' gas in pipe 15' heavy oil cut mud (15% oil, 85% mud) Initial flow pressures: 15-22 psi (weak blow) Initial shut-in pressure: 686 psi (no blow) Final flow pressures: 22-39 psi (weak blow) Final shut-in pressure: 199 psi (no blow) Bottom hole temp: 102° F
	3753'-57'	Vugular, fine crystalline, white limestone with poor vuggy porosity. Rare to spotty stain and a slight show of free oil and odor in the wet samples. Calculated 11% porosity and 47% water saturation on the electric log. Consider testing prior to abandoning well.
	3820'-23'	Buff, white, fine crystalline limestone with scattered poor and fair vuggy porosity and dark spotty stain. Wet samples contained a fair show of free oil and odor. This zone calculated 16% porosity and 30% water saturation on the electric log. Worthy of testing.
Marmaton	3949'-62'	Tan, light brown, opaque chert, tight with trace of rare spotty stain. Mostly barren. No show of free oil or odor in the wet samples. Calculated 6-7% porosity and 70-90% water saturation. Not worthy of testing.
Cherokee Sand	3997'-4000'	Fine and medium grained, frosty, sub-rounded sand, well-sorted with poor intergranular porosity and rare spotty stain. Wet samples did not have any show of free oil or odor. Calculated 8% porosity and 55% water saturation. Open on drill stem test #3 and #4. Not worthy of testing.
Cherokee Sand	4007'-09'	Sand as above, occasionally sub-angular. Spotty to saturated stain with a slight show of free oil and odor in the wet samples. Calculated 20% porosity and 46% water saturation on the electric log. Open on drill stem test #3 and #4. Might be considered for testing prior to abandoning well.

Arbuckle Dolomite 4021'-40' Fine and medium crystalline, buff dolomite, spotty and saturated stain. Trace of dead oil stain. Poor to scattered fair intercrystalline porosity. Wet samples had a show of free oil and odor. Calculated 13-17% porosity and 23-38% water saturation. Open on drill stem test #3 and #4.

Drill Stem Test #3 Results:

Interval: 3998'-4040'
Times: 15"-30"-60"-30"
Recovered: 60' gas in pipe
95' total fluid:
20' clean oil
75' muddy, gassy oil
(10% gas, 50% oil, 40% mud)
Initial flow pressures: 18-35 psi (weak blow)
Initial shut-in pressure: 973 psi (no blow)
Final flow pressures: 38-64 psi (weak 1¼" blow)
Final shut-in pressure: 684 psi (no blow)
Bottom hole temp: 110° F

4040'-50' Medium and coarse crystalline, buff, off-white dolomite, poor to fair vuggy porosity. Spotty and saturated stain with a good show of free oil and strong odor in the wet samples. Calculated 13-20% porosity and 23-37% water saturation. Open on drill stem test #4. This portion worthy of testing.

Drill Stem Test #4 Results:

Interval: 3998'-4050'
Times: 15"-30"-60"-30"
Recovered: 110' gas in pipe
269' total fluid:
145' muddy, gassy oil
(20% gas, 65% oil, 15% mud)
124' muddy, gassy oil
(20% gas, 50% oil, 30% mud)
Initial flow pressures: 22-79 psi (weak building to fair 3¼" blow)
Initial shut-in pressure: 1009 psi (no blow)
Final flow pressures: 80-120 psi (weak building to good 8" blow)
Final shut-in pressure: 834 psi (very weak blow)
Bottom hole temp: 113° F

4050'-60' Dolomite as above, barren in part. Calculated 12-14% porosity and 25-43% water saturation on the electric log. Not worthy of testing.

Arbuckle (cont.)	4060'-4100'	Dolomite as above with increasing percentage of barren porosity. In addition, light tan, buff, white, coarse crystalline dolomite, rhombic in part, with good vuggy porosity. Rare to occasional spotty stain, but mostly barren. Trace of dead oil stain. Calculated wet on electric log. Not worthy of testing.

REMARKS:

Structurally, the Lansing top on the #1 Pfeifer G ran 21' high to the dry hole approximately ½ mile to the northwest, the #1 Pfeifer B (Dreiling Oil) and 13' high to the dry hole to the southeast approximately ½ mile, the #1 Kroeger (Downing-Nelson). The 1st Cherokee Sand ran 36' high to the same #1 Pfeifer B and 17' high to the same #1 Kroeger. The Arbuckle top ran 44' high to the same #1 Pfeifer B. The Arbuckle formation was not encountered in the #1 Kroeger, which has a total depth minus datum of -1806. The Arbuckle top on the #1 Pfeifer G is 35' higher than this total depth minus datum.

Based on its high structural position to surrounding holes, in addition to the results of drill stem tests #1 and #4, 5½" casing was cemented at 4099' for further testing.

Respectfully Submitted,

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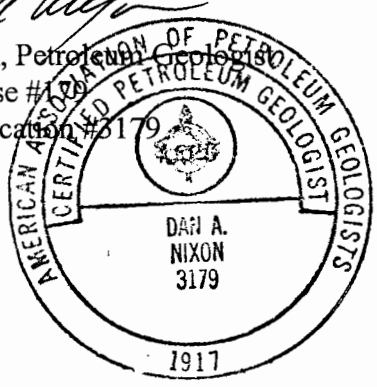

DRILLING TIME LOG

3300'-3325'	2-1-1-2-1	1-2-1-2-1	1-1-2-1-1	2-1-1-1-2	2-2-2-2-1
3325'-3350'	2-2-2-3-4	3-3-2-3-3	2-2-1-3-3	2-3-3-4-2	3-2-3-2-2
3350'-3375'	3-3-2-3-2	3-2-2-2-2	2-5-4-2-1	1-1-1-1-1	1-1-1-1-1
3375'-3400'	1-3-3-2-3	2-3-3-6-3	4-4-4-5-4	3-3-3-2-3	3-4-4-3-2
3400'-3425'	3-3-3-3-4	3-3-3-3-4	3-2-2-2-2	2-1-3-3-3	3-3-4-3-3
3425'-3450'	3-2-2-1-2	1-1-1-1-2	1-1-2-1-1	3-2-2-2-2	2-2-2-3-3
3450'-3475'	3-4-3-4-3	3-3-4-3-3	3-3-4-4-4	3-3-3-2-1	1-4-3-2-1
3475'-3500'	2-1-1-2-1	1-1-2-3-4	2-4-3-3-4	3-3-3-2-3	2-4-4-3-4
3500'-3525'	3-4-4-3-4	4-4-4-4-4	3-3-3-3-3	2-2-1-3-2	3-2-3-4-3
3525'-3550'	3-2-3-2-2	2-3-3-3-3	4-3-4-4-2	1-1-1-2-1	2-2-2-2-3
3550'-3575'	3-3-2-3-3	2-3-2-3-3	2-3-2-3-3	3-2-3-3-3	2-3-2-3-4
3575'-3600'	3-2-2-3-4	4-3-3-4-4	4-4-3-4-3	3-3-3-3-3	2-3-4-3-4
3600'-3625'	3-4-4-4-4	3-4-3-4-3	3-3-3-4-4	3-4-3-3-3	3-2-2-3-3
3625'-3650'	3-3-3-3-3	3-3-3-3-3	4-4-3-3-4	4-3-4-4-3	2-2-2-1-2
3650'-3675'	3-4-4-4-3	3-4-3-4-4	3-3-3-4-4	4-3-3-4-4	2-3-3-5-3
3675'-3700'	4-3-4-4-4	4-4-4-3-4	3-2-2-3-3	3-5-3-4-4	3-3-3-3-3
3700'-3725'	3-4-4-3-3	4-4-2-2-3	3-4-4-4-3	4-4-4-3-4	4-4-3-4-4
3725'-3750'	3-3-4-3-4	4-3-3-3-3	4-3-4-3-3	4-4-4-4-3	4-5-4-4-4
3750'-3775'	4-3-5-5-4	5-4-3-4-3	4-3-4-5-5	4-4-5-7-3	3-3-3-4-3
3775'-3800'	3-4-4-3-4	3-4-4-4-3	4-3-4-4-4	4-5-4-4-4	4-4-3-3-4
3800'-3825'	4-5-4-4-4	5-5-4-4-5	5-4-5-4-5	6-5-5-5-4	5-4-4-3-3
3825'-3850'	3-4-4-4-4	5-4-5-4-4	4-4-4-5-3	3-4-5-5-4	4-4-5-4-5
3850'-3875'	5-5-4-3-4	5-5-6-5-4	5-3-5-5-4	4-5-5-5-5	4-5-3-4-3
3875'-3900'	3-4-4-4-4	4-4-4-4-3	2-4-5-5-6	5-5-3-3-4	4-4-5-6-5
3900'-3925'	6-5-5-5-4	4-4-4-5-4	5-4-4-3-6	4-4-5-5-4	4-5-3-4-5
3925'-3950'	5-5-5-5-7	6-6-6-5-6	6-3-6-5-6	4-3-5-6-6	5-4-5-4-5
3950'-3975'	4-4-3-3-3	3-3-4-4-3	4-3-4-5-5	5-5-5-4-4	4-4-5-5-4
3975'-4000'	6-5-5-6-5	6-5-5-6-6	5-6-6-6-6	5-6-6-6-5	5-6-6-6-2

DRILLING TIME LOG (cont.)

4000'-4025'	5-5-4-5-6	5-4-2-3-2	1-4-5-5-5	5-6-5-5-4	5-5-5-4-4
4025'-4050'	4-3-4-4-3	2-2-2-3-3	2-2-2-2-2	4-2-4-5-3	3-2-3-3-3
4050'-4075'	2-2-2-2-2	3-3-3-2-3	3-3-3-2-3	2-2-2-2-3	3-3-2-2-3
4075'-4100'	2-2-2-3-2	2-3-2-2-3	3-2-3-2-2	3-3-3-2-3	2-4-3-3-3

CFS @ 3660' - 60" CFS @ 3730' - 60"
CFS @ 3785' - 60" CFS @ 3810' - 60"
CFS @ 4040' - 60" CFS @ 4050' - 60"
CFS @ 4100' - 60" 4100' RTD, 4099' LTD