

Geological Report

Palmer Oil, Inc.

Brookover #8-4

1120' FNL & 400' FWL

Sec. 8, T25s, R32w

Finney County, Kansas



Palmer Oil, Inc.

General Data

Well Data: Palmer Oil, Inc.
Brookover #8-4
1120' FNL & 400' FWL
Sec. 8, T25s, R32w
Finney County, Kansas
API # 15-055-22268-00-00

Drilling Contractor: Duke Drilling Co. Rig #5

Geologist: Kevin Timson

Spud Date: January 23, 2014

Completion Date: February 3, 2014

Elevation 2885' G.L.
2896' K.B.

Directions: From Garden City, KS. Go South on Hwy 83 1 mile
South of Southwind. Turn East on lease road and
South into location.

Casing: 1738' 8 5/8" #24 Surface Casing

Samples: 4400' to RTD 10' Wet & Dry

Drilling Time: 3800' to RTD

Electric Logs: Pioneer Energy Services "Y. Ruiz"
Full Sweep

Drillstem Tests: Three-Trilobite Testing "Bradley Walter"

Problems: None

Formation Tops

Brookover #8-4

Sec. 8, T25s, R32w

1120' FNL & 400' FWL

Anhydrite	1863' +1033
Base	1936' +960
Heebner	3904' -1008
Lansing	3950' -1054
Stark	4329' -1433
Bkc	4464' -1568
Marmaton	4505' -1609
Pawnee	4553' -1657
Fort Scott	4587' -1691
Cherokee	4601' -1705
Morrow	4798' -1902
Miss	4864' -1968
RTD	5000' -2104
LTD	5000' -2104

Sample Zone Descriptions

Pawnee (4553', -1657): Covered in DST #1

Ls. Tan. Medium to sub crystalline. Fair to good oomoldic and oolycastic porosity. Slight to fair stain. Poor saturation. No show of free oil. Fair odor. 20 Unit gas kick.

Morrow (4694', -1841): Covered in DST #2 & 3

Ss. Grey glauconitic. Med to coarse grain. Moderate to well rounded. No stain. No saturation. No show of free oil. Poor odor. 10 Unit gas kick.

Drill Stem Tests
Trilobite Testing
“Bradley Walter”

DST #1

Pawnee

Interval (4556’ - 4569’) Anchor Length 13’

IHP	-2221 #	
IFP	- 30” – BOB in 4 min	46-371 #
ISI	- 45” – No return	1290 #
FFP	- 45” – BOB in 4 min	379-648 #
FSIP	- 60” – No return	1281 #
FHP	- 2147 #	
BHT	- 126° F	

Recovery: 1390’ SMCW

DST #2

Morrow

Interval (4787’ – 4830’) Anchor Length 43’

IHP	- 2377 #	
IFP	- 30” – Surface blow died in 15 min	25-28 #
ISI	- 30” – No return	240 #
FFP	- 10” – No blow	29-30 #
FSIP	- Pull tool	NA
FHP	- 2342 #	
BHT	- 115° F	

Recovery: 10’ Mud

DST #3

Morrow

Interval (4788’ – 4886’) Anchor Length 98’

IHP	- 2366 #	
IFP	- 30” – 1” blow	29-41 #
ISI	- 30” – No return	766 #
FFP	- 30” – No blow	44-54 #
FSIP	- 30” – No return	934 #
FHP	- 2314 #	
BHT	- 111° F	

Recovery: 60’ Mud

Structural Comparison

Formation	Palmer Oil, Inc. Brookover #8-4 Sec. 8, T25s, R32w 1120' FNL & 400' FWL		Palmer Oil, Inc. Brookover #8-1 Sec. 8, T25s, R32w 990' FNL & 1255' FWL		Palmer Oil, Inc. Brookover #8-3 Sec 8, T25s, R32w 737' FNL & 2204' FEL	
Heebner	3904' -1008	-20	3897' -988	-12	3912' -996	
Lansing	3950' -1054	-21	3942' -1033	-10	3960' -1044	
Stark	4329' -1433	-21	4321' -1412	-3	4346' -1430	
BKC	4464' -1568	-16	4461' -1552	-12	4472' -1556	
Marmaton	4505' -1609	-19	4499' -1590	-10	4515' -1599	
Pawnee	4553' -1657	-24	4543' -1634	-5	4558' -1642	
Fort Scott	4587' -1691	-21	4579' -1670	-12	4595' -1679	
Cherokee	4601' -1705	-20	4594' -1685	-5	4616' -1700	
Morrow	4798' -1902	-21	4790' -1881	-4	4814' -1898	
Miss	4864' -1968	-2	4875' -1966	+6	4890' -1974	

Summary

The location for the Brookover #8-4 well was found via 3-D seismic survey. The new well ran structurally lower than expected at the Morrow Sandstone formation. Three drill stem tests were conducted, none of which recovered commercial quantities of oil. After all the gathered data had been examined, the decision was made to plug and abandon the Brookover #8-4 well.

Respectfully Submitted,

Kevin Timson
Palmer Oil, Inc.

