

Geological Report

Palmer Oil, Inc.

Rozelle #1-3

2068' FSL & 1128' FEL

Sec 1, T34s, R33w

Seward County, Kansas



Palmer Oil, Inc.

General Data

Well Data: Palmer Oil, Inc.
Rozelle #1-3
2068' FSL & 1128' FEL
Sec. 1, T34s, R33w
Seward County, Kansas
API # 15-175-22234-00-00

Drilling Contractor: Duke Drilling Co. Rig #5

Geologist: Luke Thompson

Spud Date: April 10, 2015

Completion Date: April 25, 2015

Elevation 2813' G.L.
2824' K.B.

Directions: From the East side of Liberal, KS at the intersection of Hwy 83 and Hwy 54 – Now go 4 miles NE on Hwy 54 – Now go 2.5 mile North on Rd. M to the SE corner of section 1-34s-33w – Now go 0.2 mile West on Rd. 9. to ingress stake North into – Now go 2068' North through pasture, into staked location.

Casing: 1702' 8 5/8" #24 Surface Casing
6486' 5 1/2" #17 Production Casing

Samples: 2500'-3000' & 4200' to RTD 10' Wet & Dry

Drilling Time: 2500'-3000' & 4200' to RTD

Electric Logs: Pioneer Energy Services "C. Desaire"
Full Sweep

Drillstem Tests: Three-Trilobite Testing "Cornelio Landa III"

Problems: Bit Trip @ 4971'
Lost Circulation @ 5489'

Formation Tops

Rozelle #1-3

Sec. 1, T24s, R33w

2068' FSL & 1128' FEL

Anhydrite	2195' +629
Base	2300' +524
Heebner	4326' -1502
Lansing	4460' -1636
BKC	5134' -2310
Marmaton	5143' -2319
Cherokee	5366' -2542
Morrow	5722' -2898
Keyes	5920' -3096
Chester Lime	6038' -3214
St. Gen	6268' -3444
St. Louis	6330' -3506
RTD	6500' -3676
LTD	6496' -3672

Sample Zone Descriptions

Lansing (4980', -2156): Covered in DST #1

Limestone, tan, oolitic, fair/good oomoldic porosity, good odor, scattered bright green/yellow fluorescence, poor show of free oil under fluorescence, poor cut. Gas 50 units hotwire.

Marmaton (5160', -2336): Covered in DST #2

Limestone, tan, oolitic, packstone, fair oomoldic porosity, occasional scattered sucrosic inter crystalline porosity, slight odor, scattered bright green fluorescence, slow string cut, slight show of free oil. Gas 100 units hotwire.

Chester (6150', -3326): Covered in DST #3

Sandstone, yellow/white/grey/aqua, fine grained, sub round, medium sorting, black specks, dead oil stain, no odor, very poor cut when broke, very poor show of free oil. Gas 355 units hotwire.

Drill Stem Tests
Trilobite Testing
“Cornelio Landa III”

DST #1

Lansing

Interval (4950' – 5019') Anchor Length 69'

IHP - 2528 #

IFP - 30" – BOB in 8 min 58-268 #

ISI - 45" – No return 1463 #

FFP - 45" – BOB in 15 min 274-417 #

FSIP - 60" – No return 1460 #

FHP - 2467 #

BHT - 123° F

Recovery: 693' G&MCW (2% Gas)
240' MCW

DST #2

Marmaton

Interval (5075' – 5175') Anchor Length 100'

IHP - 2653 #

IFP - 30" – BOB 1 min GTS 8 min 478-574 #

ISI - 45" – Bled off in 45 min 1548 #

FFP - 30" – BOB 30 sec fluid to surface 27 min 605-799#

FSIP - 60" – Bled off in 60 min 1551 #

FHP - 2503 #

BHT - 125 ° F

Recovery: 315' GM (15% Gas)
189' OCMG (2% Oil, 63% Gas)
189' OCMG (10% Oil, 50% Gas)
315' GW (30% Gas)
240' W

Gas Rate: First ¾ open 13 psi 428 mcf/d
Last ¾ open 19 psi 522 mcf/d

DST #3

Chester

Interval (6146' – 6200') Anchor Length 54'

IHP - 3127 #

IFP - 30" – 1/4" blow died 8 min 21-28#

ISI - 30" – No Return 53#

FFP - 10" – No Blow Flush surged and died 31-39 #

FSIP - Pulled Test N/A

FHP - 2975 #

BHT - 132 ° F

Recovery: 5' M

Structural Comparison

	Palmer Oil, Inc. Rozelle #1-3 Sec. 1, T34s, R33w 2068' FSL & 1128' FEL		EOG Resources Rozelle #1-2 Sec. 1, T34s, R33w 660' FSL & 1980' FWL		Anadarko Petroleum Corp. Webb C-1 Sec. 1, T34s, R33w 4620' FSL & 660' FEL
Formation					
Heebner	4326' -1502	-12	4310' -1490	-2	4314' -1500
Lansing	4460' -1636	-4	4452' -1632	0	4450' -1636
BKC	5134' -2310	+18	5148' -2328	+4	5128' -2314
Marmaton	5143' -2319	+21	5160' -2340	+9	5142' -2328
Cherokee	5366' -2542	+10	5372' -2552	-11	5345' -2531
Morrow	5722' -2898	+9	5727' -2907	-12	5701' -2887
Keyes	5920' -3096	-59	5857' -3037	-10	5900' -3086
Chester Lm	6038' -3214	-12	5946' -3126	-18	6010' -3196
St. Gen	6268' -3444	-25	6289' -3469	-51	6207' -3393
St. Louis	6330' -3506			-20	6300' -3486

Summary

The location for the Rozelle #1-3 well was found via 3-D seismic survey. The new well ran structurally as expected. Three drill stem test were conducted, one of which recovered commercial quantities of gas and oil. After all the gathered data had been examined, the decision was made to run 5 ½" casing to further evaluate the Rozelle #1-3 well.

Perforations:

Primary: Chester (6152' – 6182') & (6197' – 6212')

**Perforate Chester together

Secondary: Keyes 5972' – 5988'

Morrow 5870' – 5886'

Marmaton 5242' – 5245'

5144' – 5149'

Before Abandonment:	Lansing	5040' – 5044'
		4977' – 4980'
		4792' – 4797'
		4764' – 4768'
		4642' – 4647'
		4530' – 4533'
		4485' – 4490'
	Toronto	4364' – 4367'
		4352' – 4356'

Respectfully Submitted,

Lukas Thompson
Palmer Oil, Inc.