

NOTES

Company: Palmer Oil

Lease: Loretta 36-1

Field: N/A

Location: N2-NW-SW (2310' FSL &660' FWL

Sec: <u>36</u> Twsp: <u>31S</u> Rge: <u>39W</u>

County: Stevens State: Kansas

KB: <u>3181'</u> GL: <u>3168'</u>

API#: 15-189-22819-00-00

Contractor: <u>Duke Drilling Co., Inc. (Rig # 9)</u>

Spud: <u>10-14-2013</u> Comp:<u>10-22-2013</u>

RTD: <u>6250'</u> LTD:<u>6249'</u>

Mud Up: 4450' Type Mud: Chemical

Samples Saved From: <u>4550' to RTD</u>
Drilling Time Kept From: <u>3700' to RTD</u>
Samples Examined From: <u>4550' to RTD</u>
Geological Supervision From: <u>4500' to RTD</u>

Geologist on Well: Wyatt Urban

Surface Casing: 8 5/8" @ 1700'

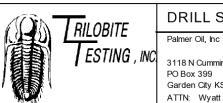
Electronic Surveys: Logged By Pioneer Energy Services, DIL, DCPL, Micro, Sonic

Palmer Oil, Inc.

well comparison sheet

	DRILLING WELL			COMPARISON WELL				COMPARISON WELL				
	Palmer Oil,Loretta 36-1				Palmer Oil, Cynthia 35-7			Anadarko Petroleum, #3 Smith				
	N2-NW-SW 36-31S-39W			S2-NW-SW-NW				NW-SE-NW				
				3-16S-20W				36-31S-39W				
					_	Struct	ural	Structural			tural	
	3181 KB			3192	KB	Relationship		3140 KB		Relationship		
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log

Top Anhydrite	1428	1753										
Base Anhydrite	1457	1724										
Heebner	3857	-676										
B. Heebner									3838	-698		
Lansing	4006	-825			4010	-818	-7					
Marmaton	4572	-1391	4570	-1389	4582	-1390	-1	1	4586	-1446	55	57
Cherokee Shale	4849	-1668	4842	-1661	4859	-1667	-1	6				
Atoka	5254	-2073	5254	-2073								
Morrow	5419	-2238	5416	-2235	5422	-2230	-8	-5	5316	-2176	-62	-59
Chester	5839	-2658	5835	-2654	5829	-2637	-21	-17				
St. Gen	5982	-2801	5985	-2804	5940	-2748	-53	-56	5860	-2720	-81	-84
St. Louis	6039	-2858	6042	-2861	6088	-2896	38	35	5956	-2816	-42	-45
St. Louis B.	6136	-2955	6137	-2956								



DRILL STEM TEST REPORT

Palmer Oil, Inc

36-31s-39w Stevens Co, KS

3118 N Cummings Rd,

Loretta 36-1

PO Box 399 Garden City KS, 67846

Job Ticket: 52985 DST#:1

Test Start: 2013.10.20 @ 23:20:00

GENERAL INFORMATION:

Formation: St. Louis

No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial) Deviated:

Time Tool Opened: 02:44:15 Tester: Jace Mckinney

Time Test Ended: 08:27:45 Unit No 46

Interval: 6018.00 ft (KB) To 6097.00 ft (KB) (TVD)

Reference Elevations: ft (KB) 6097.00 ft (KB) (TVD) ft (CF) Total Depth:

Hole Diameter: inchesHole Condition: Poor KB to GR/CF: ft

Serial #: 8675 Inside

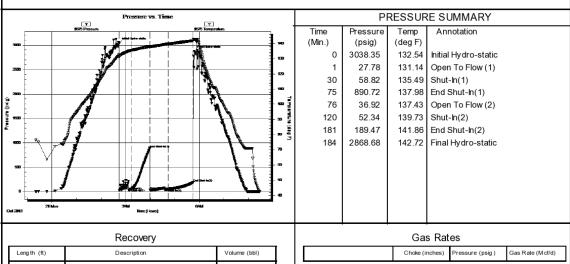
Press@RunDepth: 52.34 psig @ 6019.00 ft (KB) Capacity: 8000.00 psig

2013.10.21 Last Calib.: Start Date: 2013 10 20 End Date: 2013.10.21 Start Time: 23:20:15 End Time: 08:27:45 Time On Btm: 2013.10.21 @ 02:44:00

Time Off Btm: 2013.10.21 @ 05:47:15

TEST COMMENT: Weak surface, died in 2 min

No return blow No blow No return blow



Length (ft)	Description	Volume (bbl)
5.00	100% Mud	0.02



Coal Lmst fw<7



Lmst fw7> shale, grn



shale, gry Carbon Sh

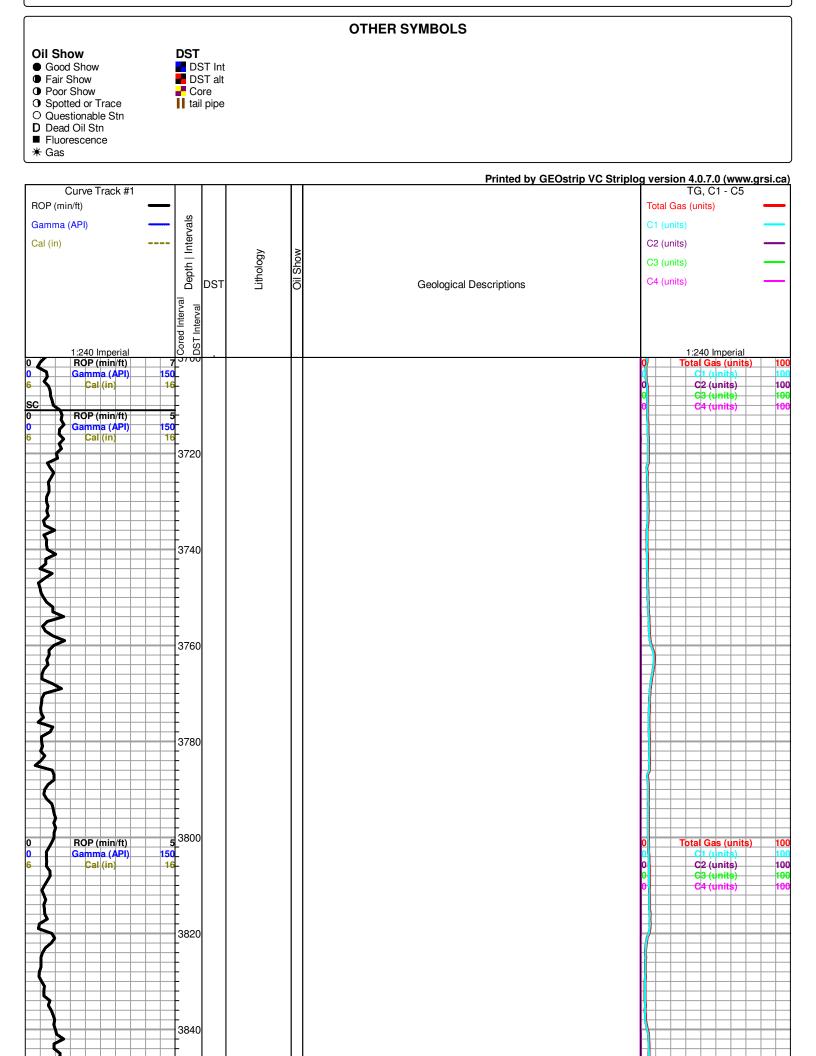
ROCK TYPES

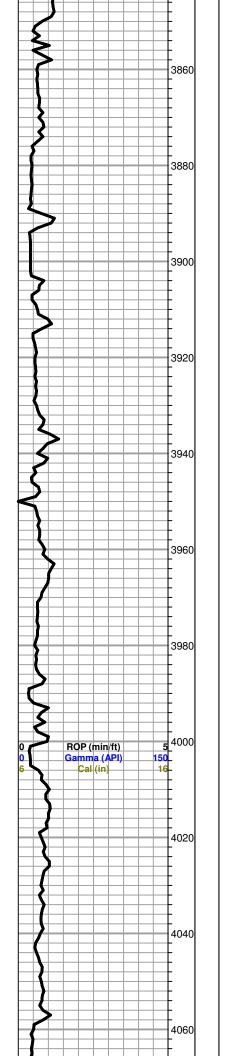


shale, red Ss

ACCESSORIES

FOSSIL Oolite Oomoldic **TEXTURE** C Chalky FX FinexIn





Heebner 3857 (-676)

Heebner 3872 (-691)

Lansing 4006 (-825)

