

NOTES

Company: Palmer Oil, Inc.

Lease:Linda 21-2

Field:Cutter South

Location: NW-SE-SE-SW (335' FSL & 2305' FWL)

Sec:21 Twsp:31S Rge:35W

County:<u>Stevens</u> State:<u>Kansas</u>

KB:3016' GL:3003'

API #:15-189-22820-00-00

Contractor: Duke Drilling Inc. (Rig #9)

Spud:<u>11/05/2013</u> Comp:<u>11/16/2013</u>

RTD:<u>6400'</u> LTD:<u>6403'</u>

Mud Up: 4400' Type Mud: Chemical

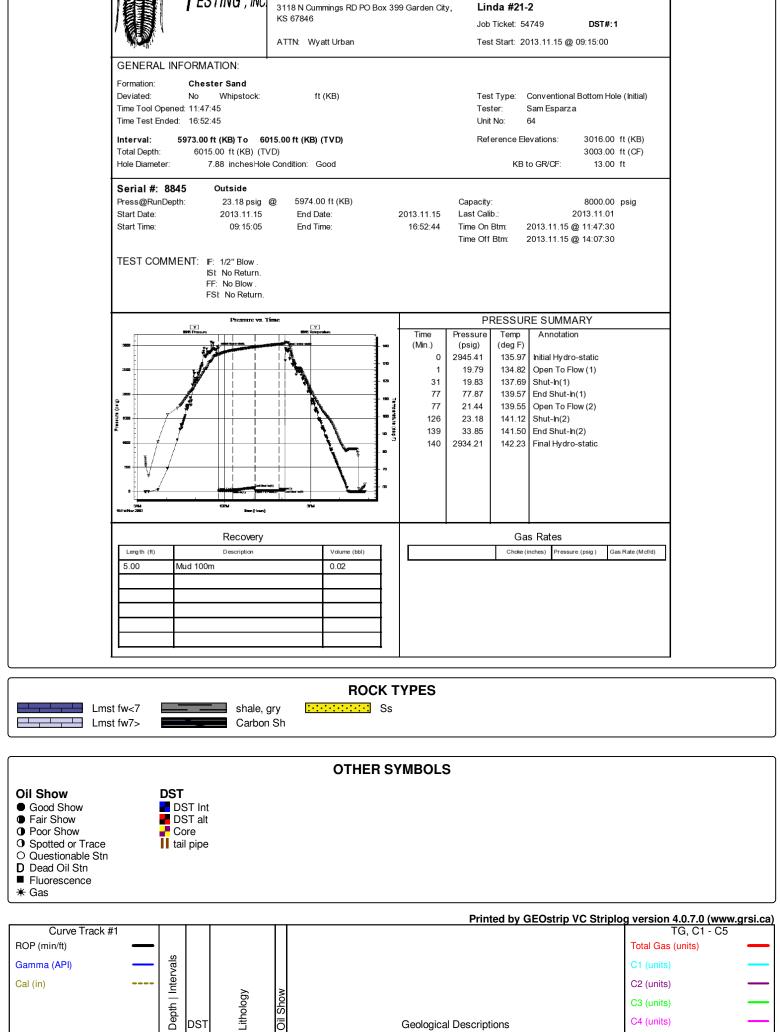
Samples Saved From: <u>4500' to RTD</u> Drilling Time Kept From:<u>4000' to RTD</u> Samples Examined From: <u>4500' to RTD</u> Geological Supervision from:<u>4500' to RTD</u> Geologist on Well: <u>Wyatt Urban</u>

Surface Casing: 8 5/8@ 1756'

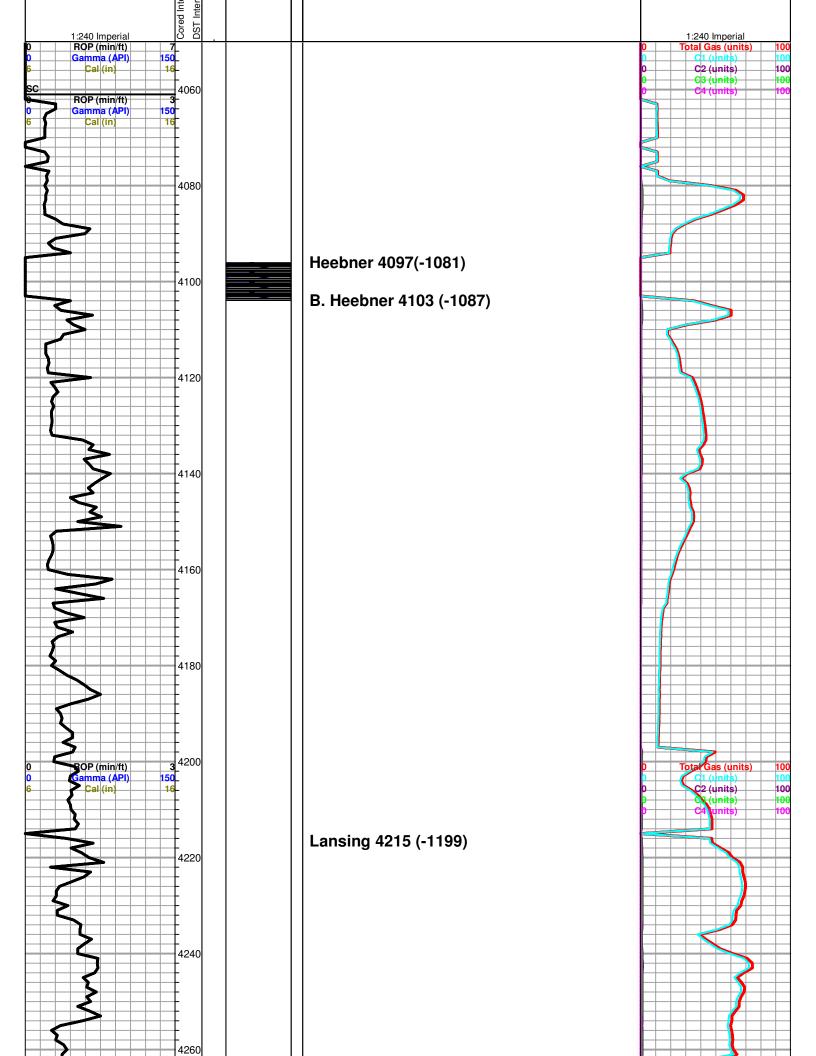
Electronic Surveys: Logged by Pioneer Energy Services, DIL, CNL/CDL, MEL

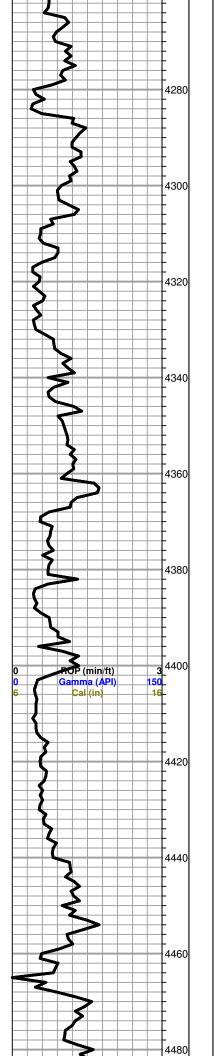
	DRILLING WELL Linda 21-2 NW-SE-SE-SW				COMPARISON WELL Palmer Oil- Lola 21-4 SW-NW-SE-SE				COMPARISON WELL EOG Resources-Cullsion 28 #1 N2-S2-NE-NW				
		21-31s-35W				21-31s-35W				28-31S-35W			
							Struct	ural			Struct	ural	
	3016 KB				3011 KB Relat			onship	3020	3020 KB		Relationship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log	
Heebner	4097	-1081			4101	-1090	9						
B. Heebner	4103	-1087			4108	-1097	10		4123	-1103	16		
Lansing	4215	-1199			4209	-1198	-1		4236	-1216	17		
Marmaton	4909	-1893	4913	-1897	4898	-1887	-6	-10	4914	-1894	1	-3	
Cherokee	5084	-2068	5088	-2072	5082	-2071	3	-1	5098	-2078	10		
Atoka	5388	-2372	5396	-2380	5396	-2385	13	5					
Morrow	5494	-2478	5515	-2499	5506	-2495	-4	-4	5513	-2493	17	-6	
Chester	5812	-2796	5822	-2806	5803	-2792	-4	-14					
Chester Sand	6005	-2989	6009	-2993	6015	-3004	15	11					
St. Gen	6055	-3039	6062	-3046	6049	-3038	-1	-8	6043	-3023	-16	-23	
St. Louis	6148	-3132	6156	-3140	6136	-3125	-7	-15					
RTD	6400	-3384	6400	-3384	6400	-3389	5	5	6300	-3280	-104	-104	
LTD	6403	-3387	6403	-3387	6362	-3351	-36	-36					

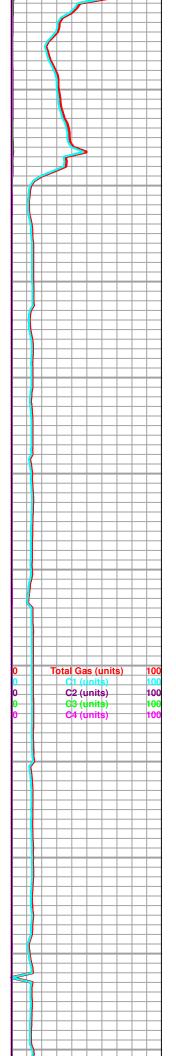


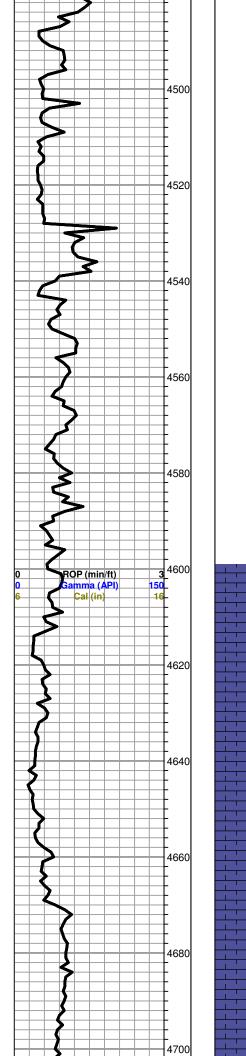


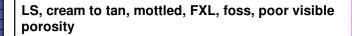
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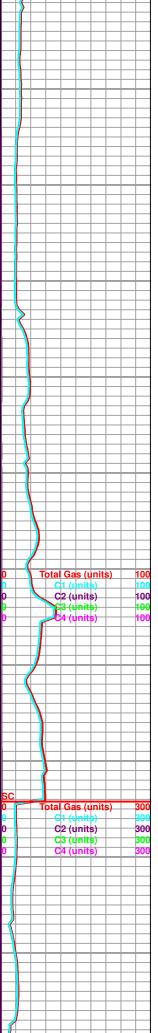


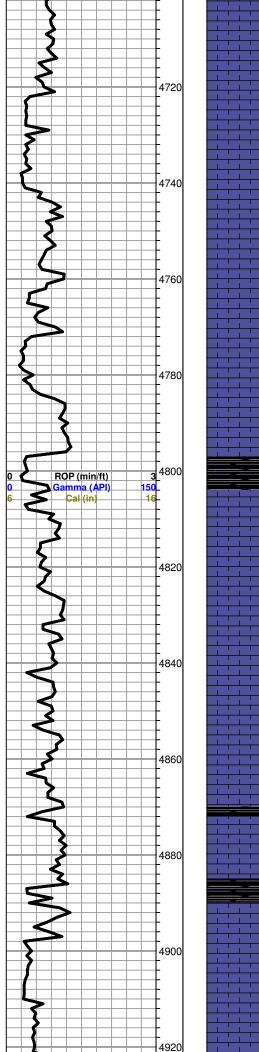


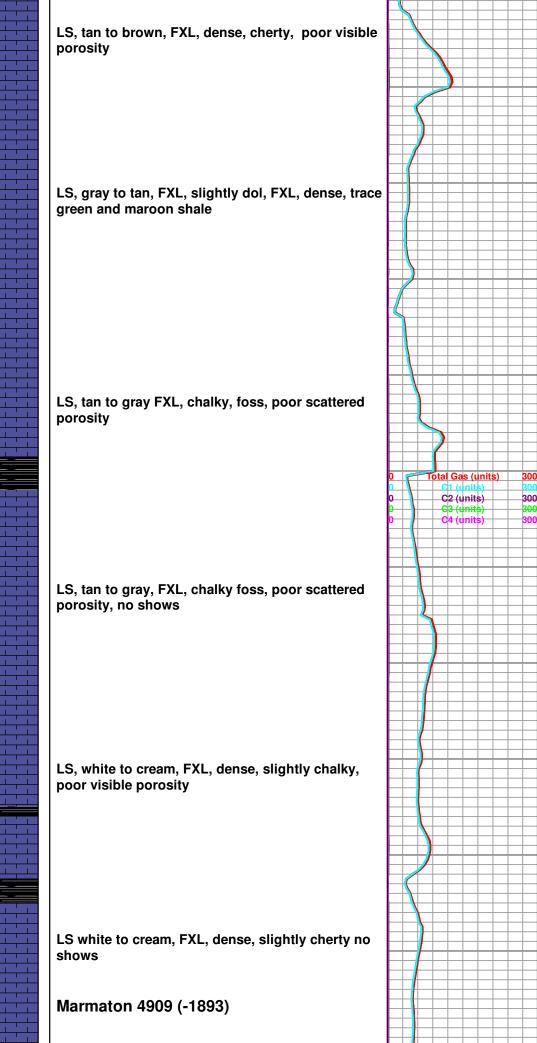


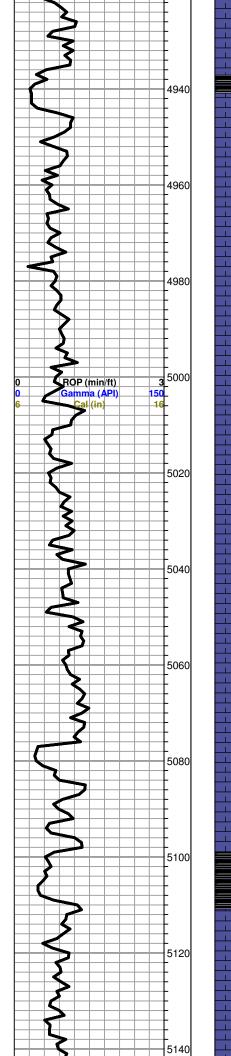
LS, tan, FXL, cherty, foss, dense

LS, tan to cream, FXL, cherty, dense, trace black shale











LS, cream to tan, mottled, FXL, dense, slightly cherty, poor visible porosity, no shows

LS, tan, FXL, cherty, foss, dense

LS, tan to brown to gray, FXL, dense, poor scattered porosity, no shows

Cheroke Shale 5088 (-2068) Black carb shale

