

NOTES

Company:Palmer Oil, Inc.

Lease: Willis #23-8

Field:Willis

Location:NE-SW-SW-SE (335' FSL & 2300' FEL)

Sec:23 Twsp:32S Rge:37W

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

KB:3123' GL:3110'

API #:15-189-22833-00-00

Contractor: Duke Drilling Inc. (Rig #9)

Spud:2/14/2014 Comp:2/23/2014

RTD:<u>6500'</u> LTD:<u>6499'</u>

Mud Up: <u>4500'</u> Type Mud: <u>Chemical</u>

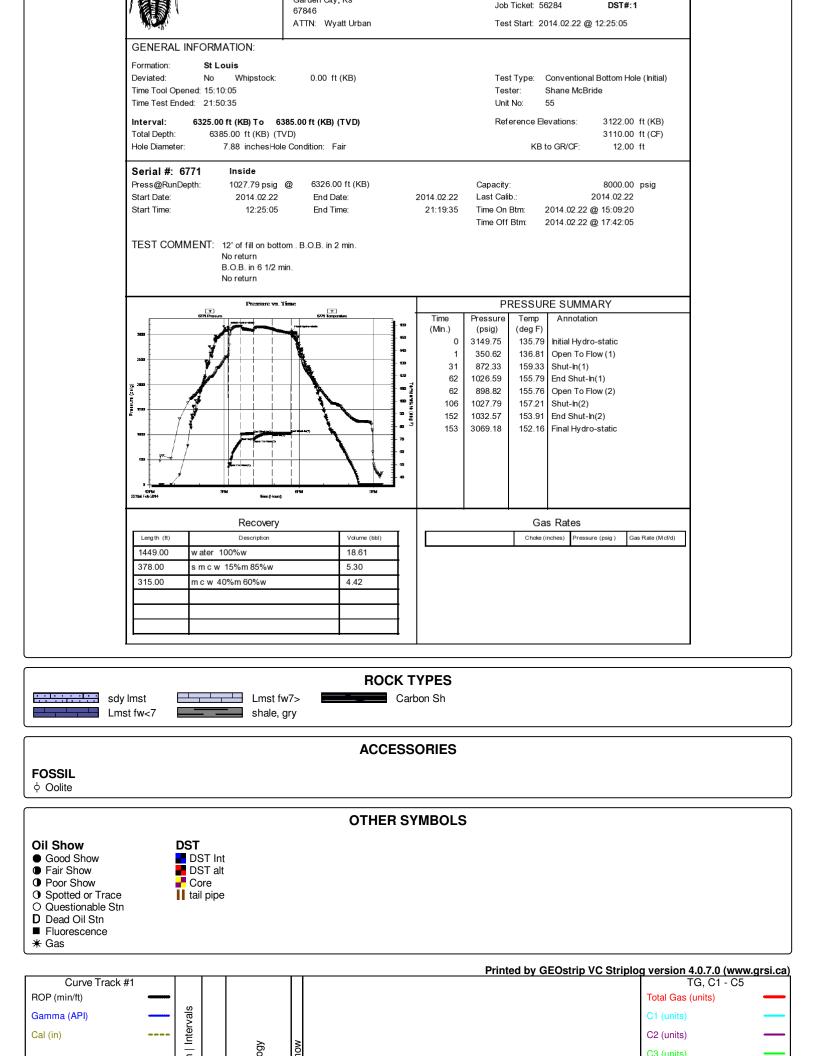
Samples Saved From: <u>4600' to RTD</u> Drilling Time Kept From:<u>4100' to RTD</u> Samples Examined From: <u>4600' to RTD</u> Geological Supervision from:<u>4600' to RTD</u> Geologist on Well: <u>Wyatt Urban</u>

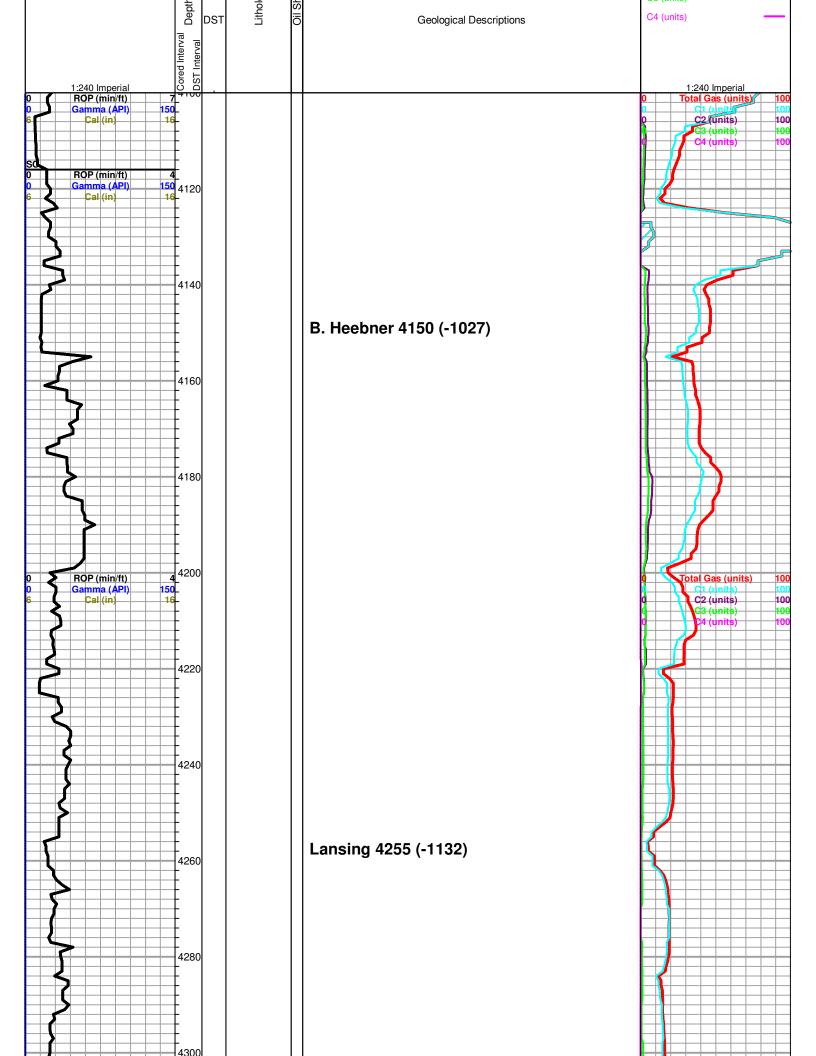
Surface Casing: 8 5/8@1743'

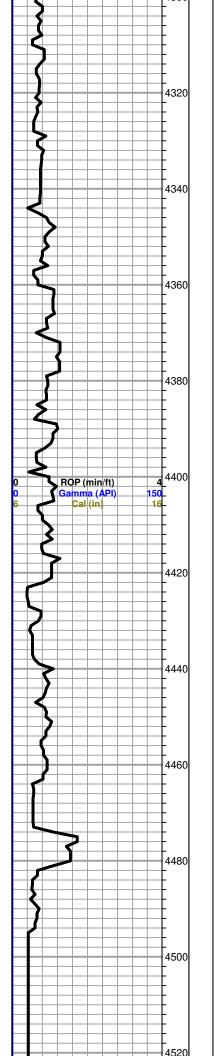
Electronic Surveys: Logged by Pioneer Energy Services, DIL, CNL/CDL, MEL

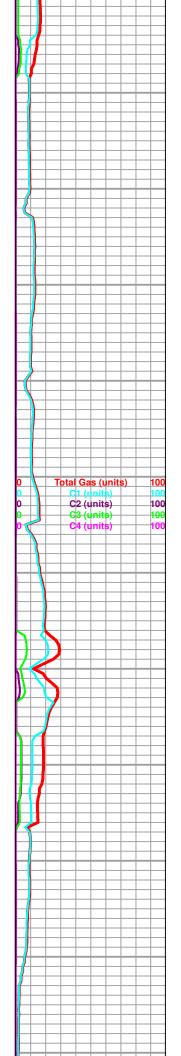
		I				Oi pariso	•							
		DRILLING WELL				COMPARISON WELL				COMPARISON WELL				
	Palmer OIl-Willis 23-8 NE SW SW SE 23-32-37W			Palmer Oil, Inc- Willis 23-7 SE NW NW SE 23-32S-37W				EOG Resources- Willis 23-3 SE SE SE 23-32S-37W						
	3123	КВ			3117 кв		Structural Relationship		3109	KB	Structural Relationshi			
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log		
B. Heebner	4150	-1027			4133	-1016	11		4133	-1016	-11			
Lansing	4255	-1132			4251	-1134	-2		4251	-1142	10			
Marmaton	4932	-1809	4912	-1789	4916	-1799	-10	10	4916	-1799	-10	10		
Cherokee	5129	-2006	5111	-1988	5117	-2000	-6	12	5117	-2000	-6	12		
Atoka	5525	-2402	5529	-2406	5523	-2406	4	0	5523	-2406	4	0		
Morrow	5629	-2506	5628	-2505	5622	-2505	-1	0	5622	-2505	-1	0		
St. Gen.	6174	-3051	6169	-3046	6172	-3055	4	9						
St. Louis	6292	-3169	6294	-3171	6297	-3180	11	9						
St. Louis B	6368	-3245	6365	-3242	6347	-3230	-15	-12						
RTD	6500	-3377	6500	-3377	6500	-3383	6	6						
LTD	6499	-3376	6499	-3376	6506	-3389	13	13						

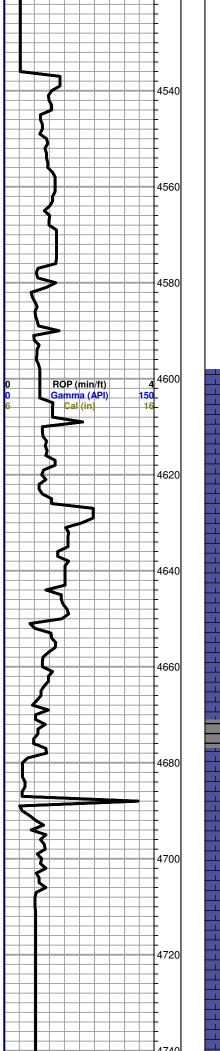


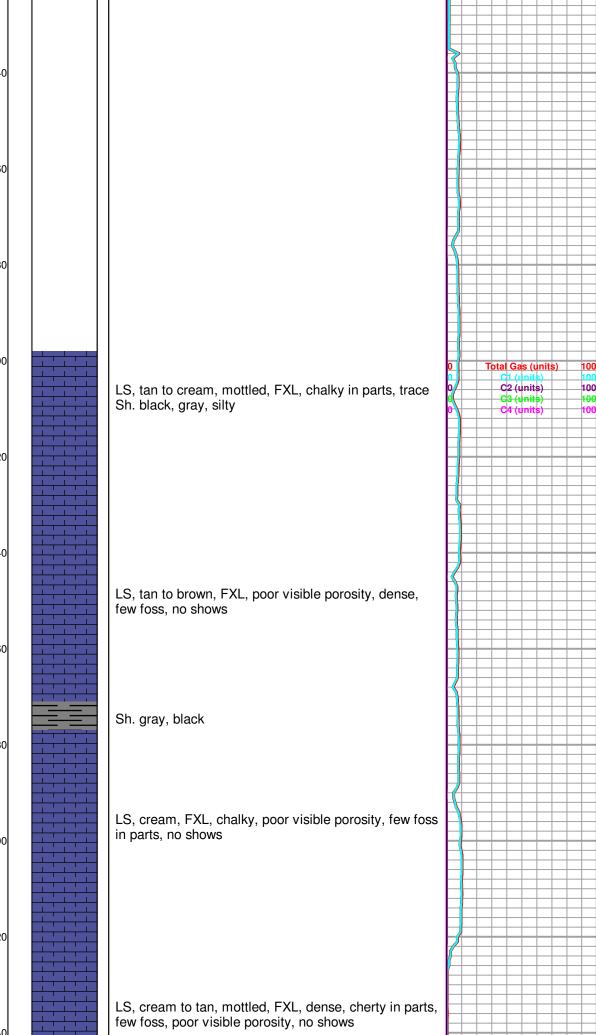


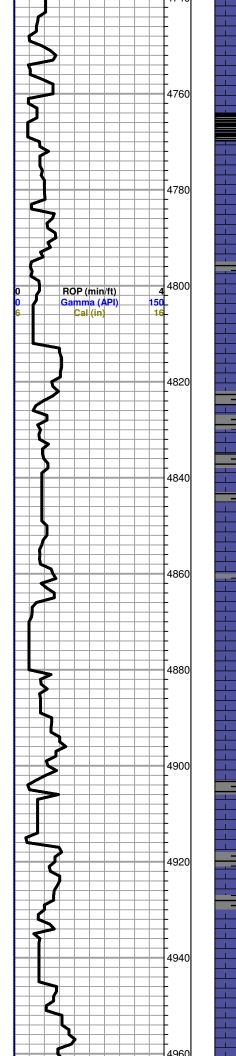


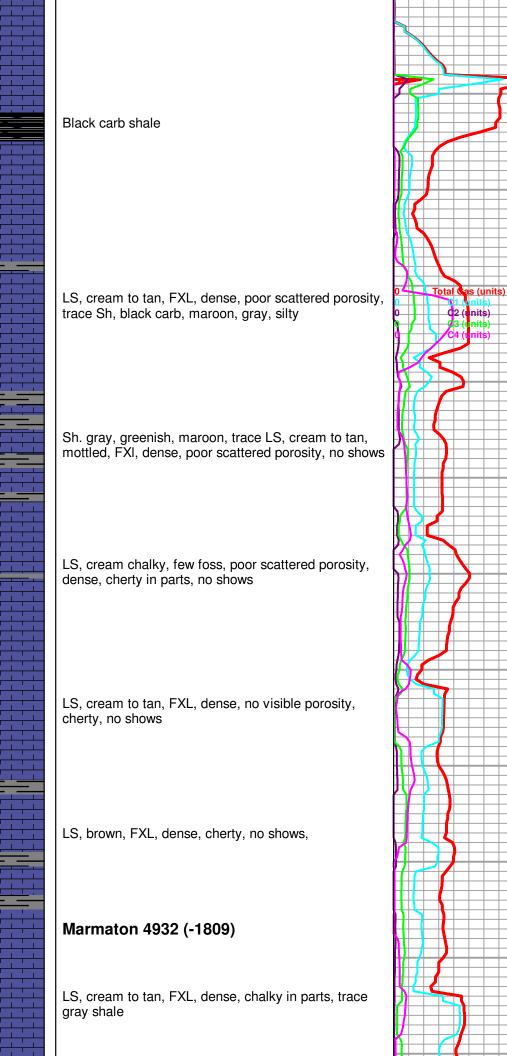


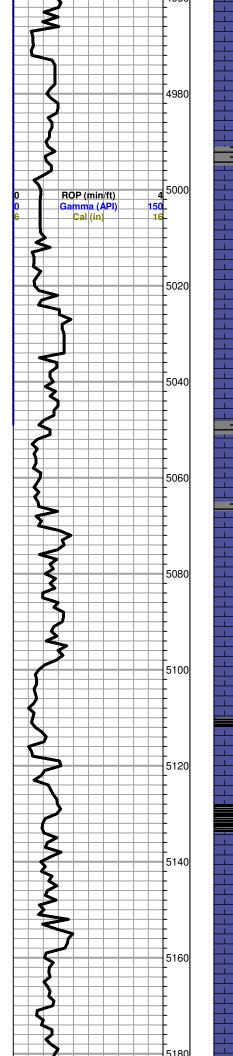


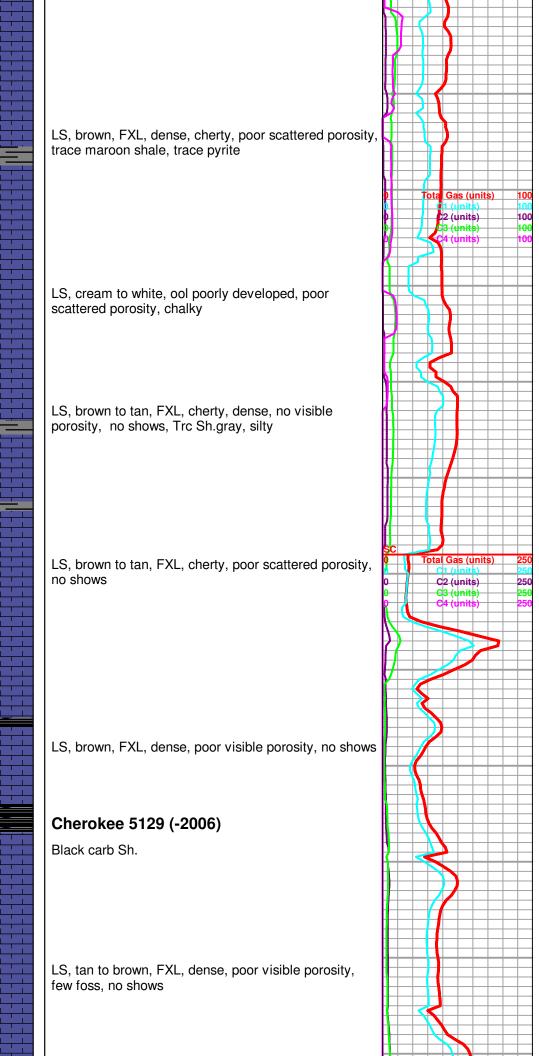


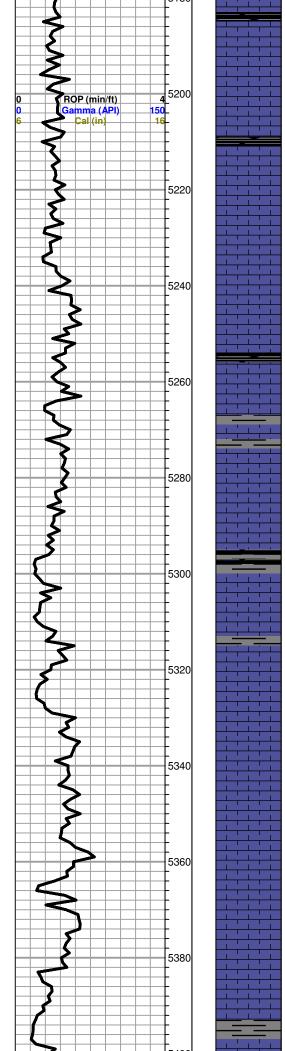


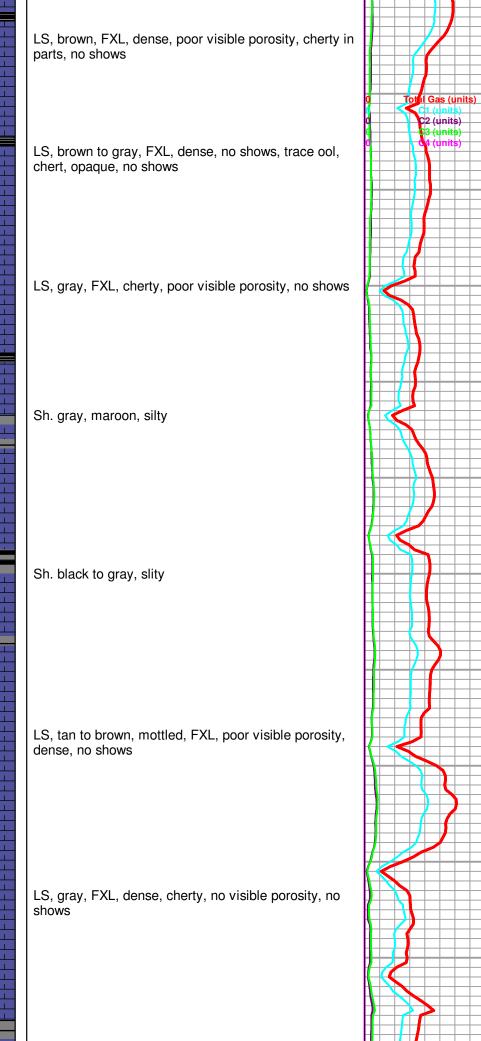


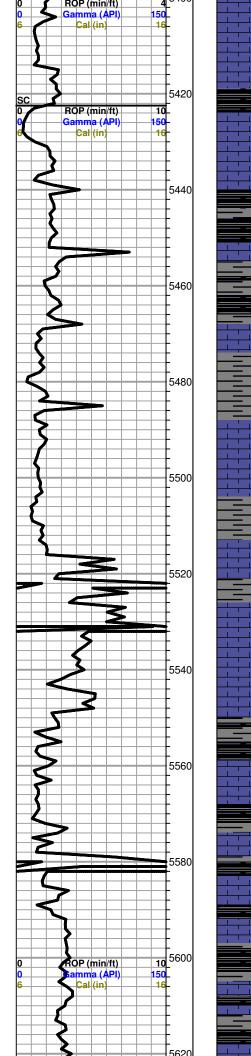












LS, gray, FXL, cherty, no shows, trace gray sh.

Black carb Sh.

Black carb Sh.

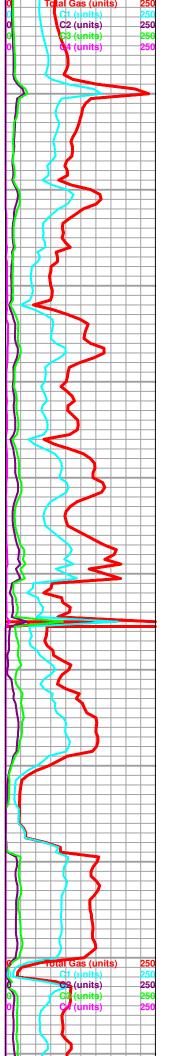
Sh. gray, silty

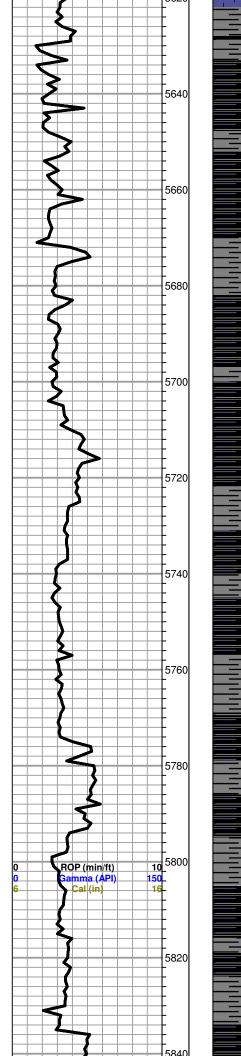
Sh. A/A, trace LS, brown, FXL, cherty, no visible porosity, dense, no shows

Atoka 5525 (-2402)

Sh. gray, silty, trace black carb

Black carb Sh.





Morrow 5629 (-2506)

Black carb Sh.

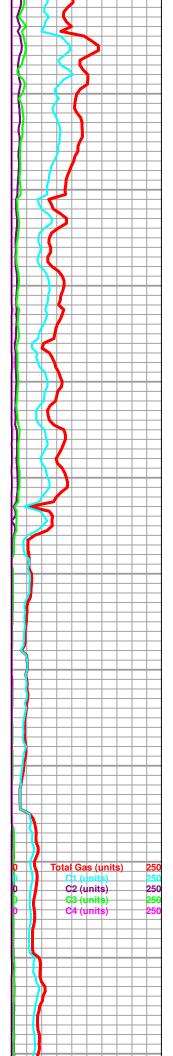
Sh. gray, silty, trace black carb sh.

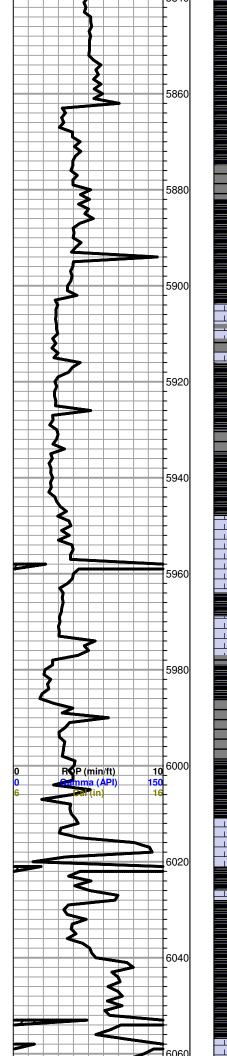
Sh. black carb

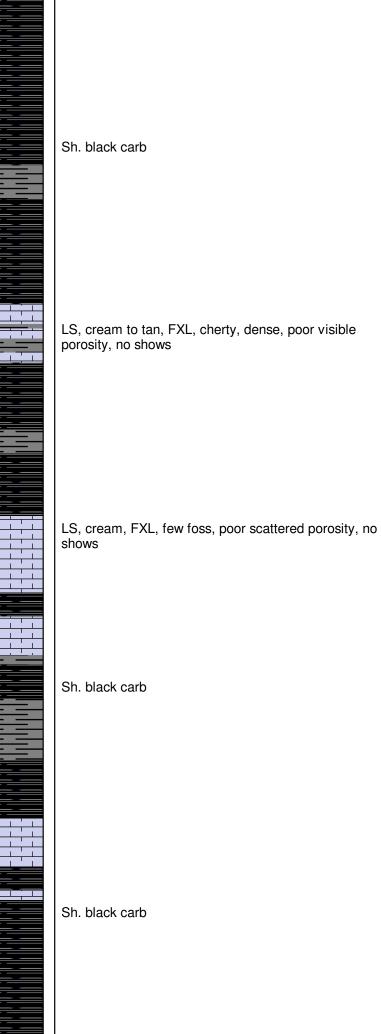
Sh. black gray, silty,

Sh. A/A

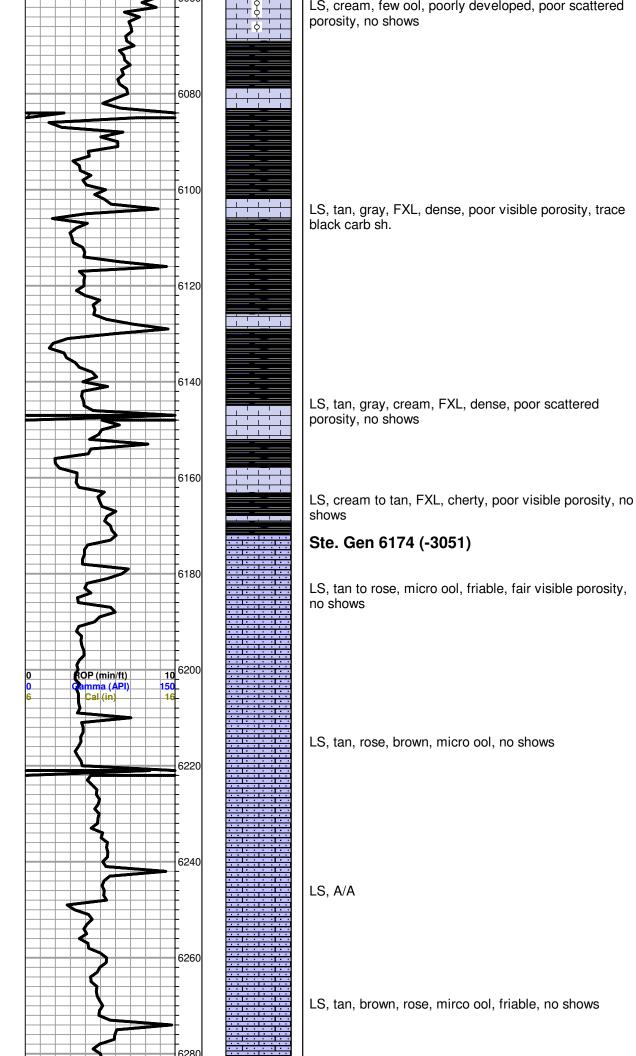
Sh. black carb, trace gray, maroon silty sh.

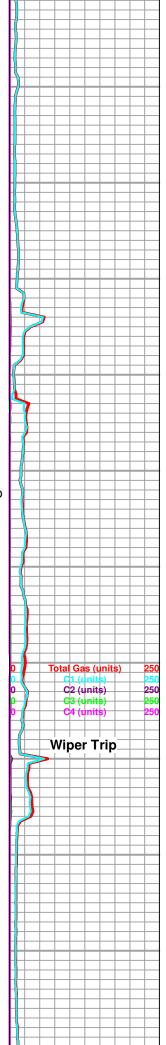


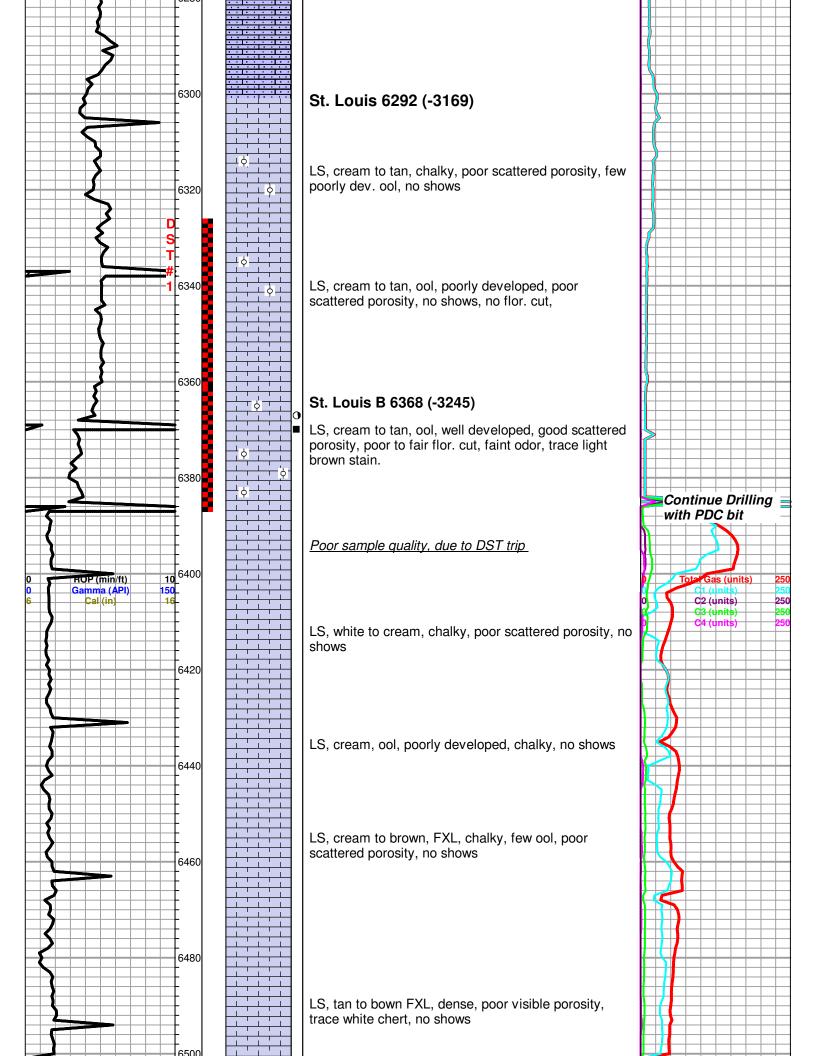












	RTD 6500'						-
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	6500'	F					
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		+ I					
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		6540					-
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		+ 1					-
+++++		+					-
		+				+	-