

**OWENS PETROLEUM SERVICES, LLC
DRILLER'S LOG**

Operator: Red Cloud Kevin Syllg

Lease / Well #: Loeber 4-10

API #: 15-207-21671-0000 19-28-16

	Date		Date		Date
Spud/Surface	8-23-10	Drilled to TD	08-26-10	Logged	1" / pump
Set Surface	9-23-10	Run/Casing		Perforated	Lead Line/Elec
Spud/Casing	8-24-10	Cemented LS		Frac	Closed Pit

Purpose	Size Drilled	Size Pipe	Weight #/ft	Setting Depth	Cement	# Sacks	Additives
Surface:	9 1/2"	7"		40'	Munich	20	
Casing:	5 1/2"						
Frac:							

Driller's TD:	ft	Logger's TD:	ft	Fluid Volume:	bbls
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Surface Bit and Subs: 3.70'
 Kelly: Top of Groove to Square: 22.60'
 Footage Above Ground Level: _____ Total

Bit and Sub	FOOTAGE:	FORMATION:	TOTAL:
Bit and Sub	1.90	0-1 fops	
1st Collar	19.90	1-24-clay 24-40 shale	
2nd Collar	20.00		
Joints: 1	62.6	S	
2	87.4	S	
3	104.2	L 100 -	
4	125.0	L -	
5	145.8	L-146 L149-157 L159	
6	166.6	L -	
7	187.4	L -	
8	208.2	L-215 shale 219 L224-228	
9	228.1	L 236-242	
10	248.8	S	
11	264.5	L 282 -	
12	270.2	L-392 L283 -	
13	310.9	- L	
14	331.6	L 353-355 L356 -	
15	352.3	388-390 L 380	
16	377.0	L -	
17	397.7	L-386 L387 -	
18	414.4	L-423 shale	
19	435.1	S	
20	455.8	S	
21	476.5	S	
22	497.2	S	
23	517.9	S	
24	538.6	S	

	FOOTAGE:	FORMATION:	TOTAL:
26	558.3	S	557-559 coal
26	580.0	S	lime streaks
27	600.7	L 601-603 603-605 red shale	L 606 - 616 blk shale
28	621.4	shaly lime	
28	642.1	L 646-648 L 655-	
30	662.2	-664 L 667-671 L 676-	
27	682.5	-684 L 687-689 blk shale L-	
28	704.2	-707 L 709-711 L 712-717	
38	724.9	733 928 odor L 740 -	
34	745.6	L- 751-752 odor 752-753 shale 754-756 odor 756 hard lime	
38	766.3	shale L 767-768 coal	
38	787.0	L 800-803 803-805 shale 805-808 shale 808-810 mostly shale 810-814	
27	807.7		
28	828.4	Shale	
28	849.1		
40	862.8		
41	890.5		
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SIN 798
 RID TD 868
 Pipe TD 862'