

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

Operator: Red Cloud

Lease / Well #: Purcell 3-10 20-25-19 WOCO

API #: 15-207-27591-0000

	Date	Date	Date	Date
Spud/Surface	05-06-10	Drilled to TD	5-8-10	Logged
Set Surface	05-06-10	Run/Casing		Perforated
Spud/Casing	05-07-10	Cemented LS		Frac

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

Driller's TD:	902 ft	Logger's TD:	ft	Fluid Volume:	bbbls
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Surface Bit and Subs: 3.70'

Kelly: Top of Groove to Square: 22.60'

Footage Above Ground Level: 1 Total

FOOTAGE: FORMATION: TOTAL:

Bit and Sub	FOOTAGE	FORMATION	TOTAL
Bit and Sub	1.90	Clay - 9 1/2' 9 1/2' - 30' lime	- shale - 40
1st Collar	19.90		
2nd Collar	20.00	- 41.8	
5-7-10 Joints: 1	62.6	Shale	
2	83.4	Shale	
3	104.2	Shale	
4	125.0	L 137-	
5	145.8	- 156 L 160 -	
6	166.6	- 168 L 172-174 L 179-	
7	187.4	- lime	
8	208.2	lime	
9	229.0	L-239 247-248 L 248	
10	249.8	L - 248	
11	270.6	Shale	
12	291.4	L 292-299	
13	312.2	L 317-325 L 326	
14	333.0	Lime	
15	353.8	lime - ? lime lime lime	
16	374.6	L - 385 L 389 L 393	
17	395.4	L 395 -	
18	416.2	L - 421 lime L 424 - 430 L 431-	
19	437.0	L - 443 - L 448 -	
20	457.8	- 458 - shale	
21	478.6	Shale	
22	499.4	Shale	
23	520.2	Shale	
24	541.0	Shale	