

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

Operator: Red Cloud 20-25-17

Lease / Well #: Furcell 4-10

API #: 15-207-27593-0000

	Date	Date	Date	Date
Spud/Surface	5-3-10	Drilled to TD	05-5-10	Logged
Set Surface	5-3-10	Run/Casing		Perforated
Spud/Casing	5-4-10	Cemented LS		Frac

Purpose	Size Drilled	Size Pipe	Weight #/ft	Setting Depth	Cement	# Sacks	Additives
Surface:	9 7/8	7"		40	monarch	20	
Casing:	5 7/8						
Frac:							

Driller's TD:	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: _____ Total

FOOTAGE: FORMATION: TOTAL:

Bit and Sub	1.90	FORMATION	TOTAL
1st Collar	19.90	1-4 clay 4-9 river gravel 7' lime shale 11-12	
2nd Collar	20.00	lime - 23.5 - shale	
Joints:	62.6	shale	
	83.4	shale	
	104.2	shale	
	125.0	132 lb streaks L138 -	
	145.8	-	
	166.6	-168 L173-174 L179-	
	187.4	-187 L189-190 soft lime -	
	208.2	soft lime - 230 L244-242	
	229.0		
	249.8	L250-253 L254-255 L266	
	270.6	shale	
	291.4	L 320-323 L 325	
	312.2	lime	
	333.0	L388 soft	
	353.8	- 370 and lime ->	
	374.6	-> 375 soft -> 377 - 387	
	395.4	Lime -> 383-387-389 389L - 393	
	416.2	-> 424 L426-428 L430 ->	
	437.0	-> 442 L444-458 shale	
	457.8	shale	
	478.6	shale	
	499.4	shale	
	520.2	shale	
	541.0	shale	

Red Cloud 4-10

	FOOTAGE:	FORMATION:	TOTAL:
25	561.8	shale	
26	582.6	shale	
27	603.4	BK shale 610-612 shale	
28	624.2	L 633 635 Red 646 675-676 L 676-677	
29	645.0	shale	
30	665.8	L 673-674	
31	686.6	shale	
32	707.4	L 714-717 L 722 724-726 coal	
33	728.2	L 738-742	
34	749.0	L 749-752 760-762 coal	
35	769.8	L 774-777 L 782 787-788 lime ^{show} 788-790 clay ^{show}	
36	790.6	L 800-803 L 806 790-792 807-809 coal	
37	811.4		
38	832.2	836 hard spot 836-838 ^{show} 838-842 ^{show} 842-846 ^{show}	
39	853.0	846-850.5 sandy shale	
40	873.8		
41	894.6		
42	915.4		
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SN 828