

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

Rig TO  
895'

Operator: Red Cloud

Lease / Well #: Reno 5-09

API #: 15-207-27538-0000

Spud/Surface	Date	Drilled to TD	Date	Logged	Date	1" / pump
Set Surface	3-17-09	Run/Casing	3-19-10	Perforated		Lead Line/Elec
Spud/Casing	3-17-09	Cemented LS	3-22-10	Frac		Closed Pit

Purpose	Size Drilled	Size Pipe	Weight #/ft	Setting Depth	Cement	# Sacks	Additives
Surface:	9 1/2"	7"		40'	Portland	20	
Casing:	5 7/8"	2 1/2"		871	Kelly Well Service		
Frac:							

Driller's TD:	<u>895</u> ft	Logger's TD:		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

FOOTAGE:      FORMATION:      TOTAL:

Bit and Sub	FOOTAGE	FORMATION	TOTAL
Bit and Sub	1.90		
1st Collar	19.90		
2nd Collar	20.00	shale	
Joints: 1	41.8	shale	
2		shale	
3		105 lime	
4		lime & shale	
5		lime	
6		lime	
7		lime shale	
8		shale	
9		shale	
10		250 lime      blk shale 260	
11		lime 272      shale      lime	
12		lime	
13		lime	
14	332.0	blk shale 340      lime 343	
15	353.8	358 blk lime      377 shale	
16	374.6	380 lime	
17	395.4	lime      shale 412	
18	416.2	shale	
19	437.0	shale	
20	457.8	shale	
21	478.6	shale	
22	499.4	shale	
23	520.2	shale	
24	541.0	shale	

Reno #4 700' top of sand elev 710

Run 5-09

	FOOTAGE:	FORMATION:	TOTAL:
	25 561.8	shale	
	26 582.6	lime shale	
	27 603.4	lime and shale	
	28 624.2	shale	
	29 645.0	shale	
	30 665.8	672 lime - 675 shale	
	31 686.6	lime 684-696 702	
3-19-09	32 707.4	lime 716 blk shale 718	
	33 728.2	lime 734 ODOR 741-743 lime	
	34 749.0	lime 756-758 shale blk 778 odor	
	35 769.8	shale shale 770 778 776 oil show 788-794 looked best	
	36 790.6	788-794 looked best	
	37 811.4	shale	
	38 832.2	shale	
	39 853.0	shale	
	40 873.8	shale	
	41 894.6	shale	
	42 <del>915.4</del>		
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SN 770'  
Rig TD 895'