

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

Operator: Legend Oil & Gas

Lease / Well #: Cress #3

API #: 15-207-28176-0000 22-25-17 WOCO

*Back 8-23-12*

	Date		Date		Date		Date
Spud/Surface	8-23-12	Drilled to TD	8-27-12	Logged		1"/rods, pump	
Set Surface	8-23-12	Run Casing	8-27-12	Perforated		Lead Line/Elec	
Spud/Casing	8-24-12	Cemented LS	8-29-12	Frac/Acidized		Closed Pit	

Purpose	Size Drilled	Size Pipe	Weight #/ft	Setting Depth	Cement	# Sacks	Additives
Surface:	11 3/8	7"	new	40	monarch	20	-
Casing:	5 1/2	2 1/2	used	818			
Frac:							

Driller's TD:	835 ft	Seat Nipple:	758 ft	Pipe TD:	818 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:

Bit and Sub	FOOTAGE	FORMATION
	8-23-12	Pit taking water badly - had Kopley bring up 20
1st Collar	19.9	Bags of Bentonite (Kopley will add this to cementing 6/11)
2nd Collar	8-24-12 20.0	41.8 mixed Bentonite in pit
Joints 20.7'	62.5	S
	83.2	L 84-
	103.9	-110 - L114
	124.6	L
	145.3	L
	166.0	L
	186.7	L - 184
	207.4	L 214
	228.1	L 25
	248.8	L
	269.5	L
	290.2	L
	310.9	L
	331.6	L
	352.3	L
	373.0	L - 390
	393.7	S
	414.4	S
	435.1	S
	455.8	S
	476.5	S
	497.2	L 509-512
	517.9	S
	538.6	L 552-554

R:

# Legend

LEASE/WELL#

Cross #3

FOOTAGE:

FORMATION:

FOOTAGE:	FORMATION:	
25 559.3	L566-561 L570-574	
26 580.0	S	oil show <sup>594?</sup> good show odor
27 600.7	L605-600	looks like upper squirrel
28 621.4	L639-	
29 642.1	-644 L648-	
30 662.8	-670 L675-679	
31 683.5	S	
32 704.2	L703-718	
33 724.9	L729-732 samples →	732-734 shale
34 745.6	L762 samples →	714-736 shale
35 766.3	S	736-738 some shale odor slight sh
36 787.0	S	738-740 sand shale better odor
37 807.7	S	740-743 good sand good show
38 828.4	S	743-745 good sand good show
39 849.1		745-747 sand-some shale good show
40 869.8		747-749 mostly shale slight show
41 890.5		749-751 all sandy shale
42 911.2		
43 931.9		
44 952.6		
45 973.3		763-768 little bit of sand slight odor
46 994.0		768-766 good sand - show
47 1014.7	SIN 758	766-768 mostly sand show
48 1035.4		768-770 mostly sand - show
49 1056.1		770-772 some sand - mostly shale
50 1076.8		772-774 shale
51 1097.5		
52 1118.2		
53 1138.9		
54 1159.6		
55 1180.3		
56 1201.0		
57 1221.7		
58 1242.4		
59 1263.1		
60 1283.8		
61 1304.5		
62 1325.2		
63 1345.9		
64 1366.6		
65 1387.3		
66 1408.0		
67 1428.7		
68 1449.4		
69 1470.1		