

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

Operator: Legend Oil

Lease / Well #: Pat Collins #6 17-25-17

API #: 15-207-28625-0000

111
Break

	Date		Date		Date		Date
Spud/Surface	7-23-13	Drilled to TD	7-25-13	Logged		1"/rods, pump	
Set Surface	7-23-13	Run Casing	7-25-13	Perforated		Lead Line/Elec	
Spud/Casing	7-24-13	Cemented LS	7-25-13	Frac/Acidized		Closed Pit	

Purpose	Size Drilled	Size Pipe	Weight #/ft	Setting Depth	Cement	# Sacks	Additives
Surface:	11"	7"	new	20	924/1000	10	
Casing:	5 3/8"	2 3/8"	used	897	Hurricane Bond		
Frac:							

Driller's TD:	910 ft	Seat Nipple:	835 ft	Pipe TD:	897 ft	Fluid Volume:	bbbs
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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
	1.9	0-1 top 2-7 clay 7-20 lime
1st Collar	19.9	L-28
2nd Collar	20.0	41.8 S
Joints 20.7': 1	62.5	S
2	83.2	S
3	103.9	S
4	124.6	S
5	145.3	L 144
6	166.0	L
7	186.7	L
8	207.4	L
9	228.1	L
10	248.8	L
11	269.5	S L S
12	290.2	S
13	310.9	L
14	331.6	L
15	352.3	L
16	373.0	L
17	393.7	L
18	414.4	L
19	435.1	L
20	455.8	L-461
21	476.5	S
22	497.2	S
23	517.9	S
24	538.6	S

OPERATOR:

Legend

LEASE/WELL#

Pat Collins #6

FOOTAGE:

FORMATION:

25	559.3	S	
26	580.0	S	
27	600.7	L612-620	
28	621.4	L635-636 L638-	
29	642.1	-648 L650-652 L658-660	
30	662.8	S	
31	683.5	S	
32	704.2	L715-719	
33	724.9	L729-741 L744-	
34	745.6	-748 L753-757	
35	766.3	L775-781 L783-	odor 785-792
36	787.0	-792	
37	807.7	L801 $\frac{1}{2}$ -804	810 sandy shale
38	828.4	S	814 Sand shale
39	849.1	L836-839	
40	869.8	S	839-841 Sand-some shale - show
41	890.5		841-843 Sand & little shale - show
42	911.2		843-845 sand - shale - show
43	931.9		845-847 some sand sandy shale - odor
44	952.6		847-849 sandy shale - odor
45	973.3		849-851 sandy shale - slight odor
46	994.0		851-853 shale
47	1014.7		
48	1035.4		
49	1056.1		
50	1076.8		
51	1097.5		
52	1118.2		
53	1138.9	SIN 834-835	
54	1159.6		
55	1180.3	RTD 910	
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		
70	1490.8		