

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

Water From Les 111

Operator: Legend Oil

Lease / Well #: Pat Collins # 7 17-25-17 WOCO

API #: 15-207-28650-0000

Spud Surface	Date		Date		Date	
Spud Surface	7-28-13	Drilled to TD	7-29-13	Logged		1"/rods, pump
Set Surface	7-28-13	Run Casing	7-29-13	Perforated		Lead Line/Elec
Spud/Casing	7-29-13	Cemented #6		Frac/Acidized		Closed Pit

Purpose	Size Drilled	Size Pipe	Weght #/ft	Setting Depth	Cement	# Sacks	Additives
Surface:	11	7"	new	20	gshgrade	10	
Casing:	5 3/4	2 3/4	used		Hurricane Dred		
Frac:							

Driller's TD:	900 ft	Seat Nipple:	820 ft	Pipe TD:	882 ft	Fluid Volume:	bbls
---------------	--------	--------------	--------	----------	--------	---------------	------

Surface Bit and Subs: 3.70'
 Kelly: Top of Groove to Square: 22.60'
 Footage Above Ground Level: _____ Total

FOOTAGE:		FORMATION:	
Bit and Sub	1.9	0-1 top 1-6 clay 6-17 lime 17-20 shale	
1st Collar	19.9		
2nd Collar	20.0	41.8	S
Joints 20.7'	62.5		S
2	83.2		S
3	103.9		S
4	124.6	L 130 - 145 ?	
5	145.3	L 151	
6	166.0		L
7	186.7		L
8	207.4		L
9	228.1		L
10	248.8		L
11	269.5		S
12	290.2		S L
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-445	
20	455.8		S
21	476.5		S
22	497.2		S
23	517.9		S
24	538.6		S
25	559.3		S

OPERATOR: Legend

LEASE/WELL# Pat C #7

FOOTAGE: FORMATION:

26	580.0	S	L597-600	
27	600.7	L608-609		
28	621.4	L622-632	L636-638	
29	642.1	S		
30	662.8	S		
31	683.5	L699-		
32	704.2	-703	L707-	
33	724.9	L729	L734-738	
34	745.6	L760-767	L769	
35	766.3	↓	↓	↓ 779
36	787.0	L786-789		
37	807.7	L820- 822 824	796	sandy shale
38	828.4		800	sandy shale
39	849.1		805	sandy shale
40	869.8			
41	890.5			
42	911.2		824-826	sand - little shale - show
43	931.9		826-828	sand - little shale - show
44	952.6		828-830	sandy shale - slight color
45	973.3		830-832	sandy shale
46	994.0		832-834	shale
47	1014.7			
48	1035.4			
49	1056.1	S/N 820		
50	1076.8	RTD 900		
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			
70	1490.8			