

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

Water
1

Massoth-Ellis #6
Lease/Well#

Operator: Legend Marshall

~~John Ellis #7~~ 22-25-17

API #: 15-207-27876 0000

	Date		Date		Date		Date
Spud/Surface	12-13-11	Drilled to TD	12-17-11	Logged		1" / pump	
Set Surface	12-13-11	Run/Casing	12-17-11	Perforated		Lead Line/Elec	
Spud/Casing	12-15-11	Cemented LS		Frac		Closed Pit	

Purpose	Size Drilled	Size Pipe	Weight #/ft	Setting Depth	Cement	# Sacks	Additives
Surface:	11 3/8	7"	new	22'	ashgrove	11	-
Casing:	5 5/8	2 3/8	used	850.1			
Frac:							

Driller's TD:	860 ft	Seat Nipple:	789 ft	Pipe TD:	850 ft	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: 1 Total

FOOTAGE: FORMATION:

Bit and Sub	FOOTAGE	FORMATION
	1.9	0-6 lime 6-12 clay 12-22 shale
1st Collar	19.9	
2nd Collar	20.0 41.8	
Joints 20.7'	62.5	S - shut down to replace hose
	83.2	S
	103.9	S
	124.6	L 30
	145.3	-149 L155-156 L160
	166.0	L
	186.7	L
	207.4	L
	228.1	L-228 -232 L232
	248.8	L-258
	269.5	L271 272-274 color 278-283 blk color L284
	290.2	L
	310.9	L
	331.6	L
	352.3	L-360 blk color L363
	373.0	L
12-16-11	393.7	394-395 blk color L395
	414.4	L-414 L420-427 S/G/L
	435.1	S
	455.8	S
	476.5	S
	497.2	S
	517.9	S
	538.6	S

OPERATOR: _____

LEASE/WELL# Masseth - Ellis #6 u

FOOTAGE:

FORMATION:

FOOTAGE:	FORMATION:
25 559.3	S
25 580.0	LS81-587 LS98
27 600.7	LS87-587 LS98
28 621.4	LS81-621 L631-634
28 642.1	L647-648 soft lime
30 662.8	L670-675 L682
31 683.5	L 683-684 L 685-686
32 704.2	L-703 L 706-712
33 724.9	L 716
34 745.6	L-747-750 odor L-755-765
35 766.3	L 718-780 cap 780-782 sand - good odor oil on pit
36 787.0	782-785 slight odor mostly shale
37 807.7	785-787 shale mottled shale
38 828.4	S 787-789 shale
12-7711 39 849.1	S 789-791 shale
40 869.8	793-795 cap
41 890.5	795-797 some sand odor show on pit
42 911.2	797-800 good sand oil on pit
43 931.9	800-802 good sand good show
44 952.6	802-804 " "
45 973.3	804-806 sand some oil
46 994.0	806-808 sandy shale
47 1014.7	808-810 sandy shale
48 1035.4	shale
49 1056.1	S/N 789
50 1076.8	
51 1097.5	
52 1118.2	
53 1138.9	RFD 860
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	

796