

OWENS PETROLEUM SERVICES, LLC DRILLER'S LOG

Operator: Legend - Marshall

Lease / Well #: Orth - Gilmore #9

API #: 15-207-28008-0000

22-25-17

	Date		Date		Date		Date
Spud/Surface	1-3-12	Drilled to TD	1-5-12	Logged		1" / pump	
Set Surface	1-3-12	Run/Casing	1-5-12	Perforated		Lead Line/Elec	
Spud/Casing	1-4-12	Cemented LS	1-6-12	Frac		Closed Pit	

Purpose	Size Drilled	Size Pipe	Weight #/ft	Setting Depth	Cement	# Sacks	Additives
Surface:	1 1/2"	7"	new	2.2'	Buffard	10	
Casing:	3 1/2"	2 1/2"	used				
Frac:							

Driller's TD:	870 ft	Seat Nipple:	798 ft	Pipe TD:	863 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	1.9	top of 1 1/2" line	5' 11"	11-22-17
1st Collar	19.9			
2nd Collar	20.0	41.8		
Joints 20.7'	62.5	S		
	83.2	S		
	103.9	S		
	124.6	L128 -		
	145.3	- 156 L160		
	166.0	L		
	186.7	L		
	207.4	L		
	228.1	L		
	248.8	L		
	269.5	L		
	290.2	L		
	310.9	L		
	331.6	L		
	352.3	L		
	373.0	L		
	393.7	L		
	414.4	L - 430 S		
	435.1	S		
	455.8	S		
	476.5	S		
	497.2	S		
	517.9	S		
	538.6	L 548 - 550'		

OPERATOR: Legend

LEASE/WELL# Orth Gillespie #9

FOOTAGE:

FORMATION:

26	559.3	S		
26	580.0	L 580 - 590		
27	600.7	L 600 - 601 L 604 - 614		
28	621.4	L 622 - 628 Soft lime		
29	642.1	L 654 - 660		
30	662.8	L 680 -		
31	683.5	- 685 L 689 -		
32	704.2	- 704 L 706 - 710	L 712 - 713	L 715 - 718
33	724.9	L 729 - 730 L 744 -		
1-3-12-34	745.6	- 749 L 750 ^{right} _{side} - 760		
35	766.3	L 769 - 770 L 770 - 772	cap	772-776 slight ^{order} _{shale} shale
36	787.0	L 800 - 803 cap		776-778 ^{good} _{order} shaley sand
37	807.7			778-780 better sand - s
38	828.4			780-782 better sand - good show
39	849.1			782-785 sand more shale
40	869.8			785-787 mostly shale
41	890.5			
42	911.2			
43	931.9			803-806 good sand good show
44	952.6			806-808 good sand e show
45	973.3			808-810 some shale - show
46	994.0			810-812 getting shaley - slight show
47	1014.7			812-814 shale
48	1035.4			
49	1056.1			
50	1076.8			
51	1097.5			
52	1118.2			
53	1138.9			
54	1159.6			SW 798
55	1180.3			
56	1201.0			RTD 870
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			