

<b>Logger:</b>	Kristin Pope	<b>Client:</b>	Lime Rock Resources	<b>Well ID:</b>  <b>MW-2</b>
<b>Driller:</b>	Atkins Engineering Associates, Inc.	Lime Rock Resources		
<b>Drilling Method:</b>	Hollow-Stem Auger; 8" borehole	<b>Project Name:</b>		
<b>Start Date:</b>	6/6/2017	ASAU #150 Trunkline Release		
<b>End Date:</b>	6/6/2017	<b>Location:</b> Sec. 14, T18S, R26E		
East side of Fanning Road, south of Artesia, NM (Atoka)		32°44'35.7"N, 104°20'52.61"W		

Depth (feet)	Description	Lithology	Comments	Well Construction	Depth (feet)
0.0	Surface, dark brown soil		0-5 ft	Subsurface vault  neat cement	0.0
1.0			1.0		
2.0			2.0		
3.0			3.0		
4.0			4.0		
5.0	fine sand, brown, 25% fine gravel, poorly sorted, sub-rounded, 0.5-3 cm		5-10 ft		5.0
6.0			6.0		
7.0			7.0		
8.0			8.0		
9.0			9.0		
10.0	Medium sand, light brown, 20% brown dolostone		9-12 ft core <b>PID = 0.8 ppm</b>		10.0
11.0			11.0		
12.0			12.0		
13.0			13.0		
14.0			14.0		
15.0	Gravel, poorly sorted, angular, dark-gray dolostone clasts, 15% silt, pink-brown		15-17 ft		15.0
16.0					16.0
17.0					17.0
18.0	Silt, light tan, 50% gravel, poorly sorted, sub-rounded, includes dolostone clasts		17-20 ft		18.0
19.0					19.0
20.0					20.0
21.0	Gravel, moderately sorted (2.5-5 cm), moderately rounded, mostly dolostone		20-28 ft	2-inch, Sch. 40 PVC riser	21.0
22.0					22.0
23.0					23.0
24.0					24.0
25.0					25.0
26.0					26.0
27.0					27.0
28.0	Clay, tan, globular (~3 cm), 40% gravel, moderately sorted, moderately rounded		28-35 ft		28.0
29.0					29.0
30.0					30.0
31.0					31.0
32.0					32.0
33.0	Medium clay, pink-brown, soft, 5% gravel, poorly sorted (<1-4 mm), angular		35-37 ft		33.0
34.0					34.0
35.0					35.0
36.0	Coarse sand, light pink-tan, loose, "sugar sand"		37-40 ft		36.0
37.0					37.0
38.0					38.0
39.0	Medium sand, tan, gravel, poorly sorted (2mm-2cm), moderately rounded, mostly dark-brown dolostone clasts		40-41 ft core <b>PID = 17 ppm</b>		39.0
40.0			40.0		
41.0			41.0		
42.0			42.0		
43.0	Fine sand, tan, 5% gravel (~2mm)		40-48 ft	bentonite seal	42.0
44.0			43.0		
45.0			44.0		
46.0			45.0		
47.0			46.0		
48.0			47.0		
49.0			48.0		
50.0	Clay, tan, 30% medium sand; moist at 53 ft; wet 54+ ft		48-53 ft	2-in. Sch. 40 PVC 0.020 screen 47-62 ft	49.0
51.0			50.0		
52.0			51.0		
53.0	Clay, tan, 30% medium sand; moist at 53 ft; wet 54+ ft		50 ft core <b>PID = 14 ppm</b>	DTW = 51.41 ft	52.0
54.0			53.0		
55.0			54.0		
56.0			55.0		
57.0			56.0		
58.0			57.0		
59.0			58.0		
60.0			59.0		
61.0			60.0		
62.0			61.0		
63.0			<b>PID = 1.3 ppm</b>	12/20 silica sand pack	53.0
54.0			54.0		
55.0			55.0		
56.0			56.0		
57.0			57.0		
58.0			58.0		
59.0			59.0		
60.0			60.0		
61.0			61.0		
62.0			62.0		
63.0			wet		54.0
55.0			55.0		
56.0			56.0		
57.0			57.0		
58.0			58.0		
59.0			59.0		
60.0			60.0		
61.0			61.0		
62.0			62.0		
63.0			63.0		

<b>R.T. Hicks Consultants, Ltd</b> 901 Rio Grande Blvd NW Suite F-142 Albuquerque, NM 87104 505-266-5004	<b>Lime Rock Resources</b>	
	<b>Monitoring Well Log and Well Completion Drawing</b>	<b>June 2017</b>