



Survey Report

Service Company: LEAM

Location: EDDY COUNTY

Well: LEAVITT 13-2H

Rig:

API or UWI: 30-015-43897

Job Number:

State: NEW MEXICO

Operating Company: LIME ROCK

County: EDDY COUNTY

Magnetic Declination: 7.14

Country: USA

Proposed Azimuth: 269.55

Comment

North Reference: GRID

Latitude: 0

Longitude: 0

Tie-In Data

MD	Inclination	Azimuth	TVD	NS	EW
0.00	0.00	0.00	0.00	0.00	0.00

Survey Data

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
200.00	0.70	165.90	200.00	-1.18	0.30	165.90	1.22	-0.29	0.35
387.00	0.60	165.30	386.98	-3.24	0.82	165.72	3.34	-0.80	0.05
568.00	0.70	172.20	567.97	-5.25	1.21	166.98	5.39	-1.17	0.07
751.00	0.40	171.70	750.96	-6.99	1.46	168.21	7.14	-1.40	0.16
939.00	0.20	243.00	938.96	-7.79	1.26	170.80	7.89	-1.20	0.21
1127.00	0.40	311.70	1126.96	-7.50	0.48	176.35	7.52	-0.42	0.20
1173.00	0.40	327.20	1172.96	-7.26	0.27	177.85	7.27	-0.21	0.23
1305.00	0.50	316.70	1304.95	-6.45	-0.37	183.30	6.46	0.42	0.10
1494.00	0.40	317.20	1493.95	-5.37	-1.39	194.48	5.55	1.43	0.05
1682.00	0.40	290.70	1681.94	-4.66	-2.45	207.71	5.26	2.48	0.10
1870.00	0.40	290.50	1869.94	-4.19	-3.67	221.22	5.58	3.71	0.00
2058.00	1.30	291.00	2057.92	-3.20	-6.28	243.00	7.05	6.31	0.48
2090.00	3.60	282.70	2089.88	-2.85	-7.60	249.45	8.12	7.62	7.25
2121.00	5.40	281.70	2120.79	-2.34	-9.98	256.80	10.25	10.00	5.81
2153.00	6.00	280.80	2152.63	-1.72	-13.09	262.51	13.21	13.11	1.90
2184.00	6.00	281.70	2183.46	-1.09	-16.27	266.17	16.31	16.28	0.30

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
2216.00	5.80	284.20	2215.29	-0.35	-19.48	268.96	19.48	19.48	1.02
2247.00	6.60	282.20	2246.11	0.41	-22.74	271.03	22.74	22.73	2.67
2279.00	9.10	278.00	2277.81	1.15	-27.04	272.43	27.07	27.03	8.01
2310.00	12.10	273.60	2308.27	1.69	-32.71	272.96	32.76	32.70	10.02
2341.00	15.10	271.10	2338.40	1.98	-40.00	272.83	40.04	39.98	9.86
2373.00	17.90	268.00	2369.08	1.88	-49.08	272.20	49.12	49.06	9.17
2405.00	21.40	265.30	2399.21	1.23	-59.82	271.18	59.83	59.80	11.30
2436.00	24.80	264.50	2427.72	0.15	-71.93	270.12	71.93	71.92	11.01
2468.00	27.90	265.50	2456.40	-1.08	-86.08	269.28	86.08	86.08	9.79
2500.00	29.10	265.50	2484.52	-2.28	-101.30	268.71	101.32	101.31	3.75
2531.00	30.30	266.00	2511.44	-3.42	-116.61	268.32	116.66	116.64	3.95
2562.00	31.60	267.30	2538.03	-4.35	-132.53	268.12	132.60	132.56	4.72
2594.00	33.90	270.10	2564.94	-4.73	-149.83	268.19	149.90	149.86	8.60
2625.00	36.80	271.80	2590.23	-4.42	-167.76	268.49	167.82	167.79	9.88
2657.00	40.40	272.70	2615.23	-3.63	-187.70	268.89	187.74	187.73	11.39
2688.00	43.10	272.10	2638.36	-2.77	-208.33	269.24	208.35	208.34	8.80
2720.00	44.20	273.30	2661.51	-1.73	-230.39	269.57	230.40	230.40	4.30
2751.00	46.10	272.50	2683.37	-0.62	-252.34	269.86	252.34	252.33	6.40
2782.00	48.00	271.80	2704.49	0.23	-275.01	270.05	275.01	275.00	6.35
2814.00	49.90	270.80	2725.51	0.78	-299.13	270.15	299.14	299.12	6.39
2845.00	52.80	269.90	2744.87	0.92	-323.34	270.16	323.34	323.32	9.63
2877.00	55.00	269.90	2763.72	0.88	-349.20	270.14	349.20	349.18	6.87
2909.00	55.20	269.90	2782.03	0.83	-375.44	270.13	375.44	375.42	0.62
2940.00	55.10	270.10	2799.74	0.83	-400.88	270.12	400.88	400.86	0.62
2971.00	55.10	270.40	2817.48	0.94	-426.31	270.13	426.31	426.28	0.79
3003.00	55.10	270.40	2835.79	1.12	-452.55	270.14	452.55	452.53	0.00
3035.00	55.20	270.40	2854.08	1.31	-478.81	270.16	478.81	478.78	0.31
3066.00	55.20	270.60	2871.77	1.53	-504.26	270.17	504.27	504.24	0.53
3097.00	57.60	270.30	2888.92	1.73	-530.08	270.19	530.08	530.05	7.78
3129.00	60.30	269.90	2905.43	1.78	-557.49	270.18	557.50	557.46	8.51
3160.00	63.50	269.90	2920.02	1.73	-584.84	270.17	584.84	584.81	10.32
3191.00	66.20	269.90	2933.20	1.68	-612.90	270.16	612.90	612.86	8.71
3218.00	69.60	270.10	2943.35	1.68	-637.91	270.15	637.91	637.87	12.61
3249.00	72.00	270.40	2953.55	1.81	-667.18	270.16	667.18	667.15	7.80
3286.00	75.80	270.80	2963.81	2.18	-702.72	270.18	702.72	702.68	10.32
3317.00	77.60	271.00	2970.94	2.66	-732.88	270.21	732.89	732.84	5.84
3349.00	81.00	270.80	2976.88	3.15	-764.32	270.24	764.33	764.27	10.64

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
3380.00	84.20	270.40	2980.87	3.47	-795.06	270.25	795.06	795.00	10.40
3411.00	87.50	270.40	2983.11	3.69	-825.97	270.26	825.98	825.92	10.65
3443.00	90.80	270.60	2983.59	3.97	-857.96	270.26	857.97	857.90	10.33
3474.00	93.50	271.00	2982.43	4.40	-888.93	270.28	888.94	888.87	8.80
3506.00	93.70	271.50	2980.42	5.10	-920.86	270.32	920.88	920.79	1.68
3568.00	93.60	271.30	2976.47	6.61	-982.72	270.39	982.74	982.64	0.36
3631.00	93.60	271.50	2972.51	8.14	-1045.57	270.45	1045.61	1045.48	0.32
3694.00	93.20	271.70	2968.78	9.90	-1108.44	270.51	1108.48	1108.33	0.71
3756.00	93.10	271.70	2965.37	11.74	-1170.32	270.57	1170.38	1170.19	0.16
3819.00	93.90	271.10	2961.52	13.27	-1233.18	270.62	1233.25	1233.04	1.59
3882.00	93.90	272.80	2957.24	15.41	-1296.00	270.68	1296.09	1295.84	2.69
3945.00	94.30	273.20	2952.74	18.70	-1358.75	270.79	1358.88	1358.56	0.90
4007.00	94.80	270.60	2947.82	20.75	-1420.51	270.84	1420.67	1420.31	4.26
4070.00	95.90	271.90	2941.94	22.12	-1483.22	270.85	1483.39	1483.00	2.70
4133.00	95.80	272.90	2935.52	24.74	-1545.84	270.92	1546.04	1545.60	1.59
4195.00	95.80	271.50	2929.25	27.11	-1607.47	270.97	1607.70	1607.21	2.25
4258.00	94.30	269.60	2923.71	27.71	-1670.22	270.95	1670.45	1669.95	3.83
4320.00	94.70	269.70	2918.84	27.33	-1732.03	270.90	1732.24	1731.76	0.66
4383.00	94.10	268.70	2914.01	26.46	-1794.84	270.84	1795.03	1794.57	1.85
4445.00	93.90	268.70	2909.69	25.05	-1856.67	270.77	1856.84	1856.42	0.32
4508.00	92.90	269.00	2905.95	23.79	-1919.54	270.71	1919.69	1919.30	1.66
4566.00	93.30	270.10	2902.81	23.34	-1977.46	270.68	1977.59	1977.21	2.02
4629.00	91.80	268.70	2900.01	22.68	-2040.39	270.64	2040.51	2040.15	3.26
4692.00	91.40	268.20	2898.25	20.97	-2103.34	270.57	2103.44	2103.11	1.02
4755.00	91.40	267.50	2896.71	18.61	-2166.28	270.49	2166.36	2166.06	1.11
4818.00	91.50	268.30	2895.12	16.30	-2229.21	270.42	2229.27	2229.02	1.28
4878.00	90.50	268.20	2894.07	14.47	-2289.18	270.36	2289.22	2288.99	1.67
4940.00	90.90	269.70	2893.31	13.33	-2351.16	270.32	2351.20	2350.98	2.50
5001.00	89.50	269.90	2893.10	13.12	-2412.16	270.31	2412.19	2411.98	2.32
5061.00	89.70	269.90	2893.52	13.02	-2472.15	270.30	2472.19	2471.98	0.33
5122.00	89.70	270.30	2893.84	13.12	-2533.15	270.30	2533.19	2532.97	0.66
5182.00	89.80	270.60	2894.10	13.59	-2593.15	270.30	2593.19	2592.96	0.53
5243.00	90.40	270.30	2893.99	14.07	-2654.15	270.30	2654.19	2653.96	1.10
5305.00	90.60	271.00	2893.45	14.78	-2716.14	270.31	2716.18	2715.94	1.17
5365.00	90.50	270.80	2892.88	15.72	-2776.13	270.32	2776.18	2775.92	0.37
5423.00	90.70	268.30	2892.27	15.26	-2834.12	270.31	2834.16	2833.92	4.32
5484.00	91.10	269.70	2891.31	14.20	-2895.10	270.28	2895.14	2894.90	2.39

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
5545.00	91.40	269.60	2889.98	13.83	-2956.09	270.27	2956.12	2955.89	0.52
5606.00	92.00	269.70	2888.17	13.45	-3017.06	270.26	3017.09	3016.86	1.00
5669.00	92.40	269.70	2885.75	13.13	-3080.01	270.24	3080.04	3079.81	0.63
5730.00	92.90	270.80	2882.93	13.39	-3140.95	270.24	3140.97	3140.74	1.98
5792.00	92.70	268.70	2879.90	13.12	-3202.87	270.23	3202.89	3202.67	3.40
5883.00	90.70	265.90	2877.20	8.84	-3293.71	270.15	3293.72	3293.54	3.78
5913.00	90.80	265.20	2876.81	6.51	-3323.62	270.11	3323.63	3323.47	2.36
5976.00	91.10	266.10	2875.77	1.73	-3386.43	270.03	3386.43	3386.31	1.51
6037.00	91.50	263.80	2874.38	-3.64	-3447.17	269.94	3447.17	3447.09	3.83
6100.00	90.60	265.20	2873.23	-9.67	-3509.87	269.84	3509.88	3509.84	2.64
6163.00	89.30	266.40	2873.28	-14.29	-3572.70	269.77	3572.73	3572.70	2.81
6226.00	89.80	266.40	2873.78	-18.24	-3635.57	269.71	3635.62	3635.60	0.79
6288.00	90.00	267.80	2873.88	-21.38	-3697.49	269.67	3697.55	3697.54	2.28
6350.00	90.50	268.50	2873.61	-23.38	-3759.46	269.64	3759.53	3759.52	1.39
6411.00	91.00	269.90	2872.82	-24.23	-3820.44	269.64	3820.52	3820.52	2.44
6473.00	91.30	269.90	2871.57	-24.34	-3882.43	269.64	3882.51	3882.50	0.48
6537.00	91.40	270.40	2870.06	-24.17	-3946.41	269.65	3946.49	3946.48	0.80
6600.00	89.80	270.40	2869.40	-23.73	-4009.41	269.66	4009.48	4009.47	2.54
6663.00	89.90	270.40	2869.57	-23.30	-4072.40	269.67	4072.47	4072.46	0.16
6725.00	88.50	270.10	2870.43	-23.02	-4134.40	269.68	4134.46	4134.45	2.31
6788.00	89.00	270.30	2871.81	-22.80	-4197.38	269.69	4197.44	4197.43	0.85
6850.00	89.60	270.30	2872.57	-22.48	-4259.37	269.70	4259.43	4259.42	0.97
6914.00	90.70	269.40	2872.40	-22.65	-4323.37	269.70	4323.43	4323.42	2.22
6976.00	91.40	269.70	2871.26	-23.13	-4385.36	269.70	4385.42	4385.41	1.23
7039.00	91.70	269.90	2869.56	-23.35	-4448.34	269.70	4448.40	4448.38	0.57
7102.00	92.00	270.10	2867.52	-23.35	-4511.30	269.70	4511.36	4511.35	0.57
7163.00	90.40	269.60	2866.25	-23.51	-4572.29	269.71	4572.35	4572.33	2.75
7226.00	91.10	269.70	2865.42	-23.90	-4635.28	269.70	4635.34	4635.33	1.12
7289.00	91.00	270.10	2864.27	-24.01	-4698.27	269.71	4698.33	4698.31	0.65
7352.00	89.60	270.10	2863.94	-23.90	-4761.27	269.71	4761.33	4761.31	2.22
7415.00	89.90	270.10	2864.21	-23.79	-4824.27	269.72	4824.32	4824.30	0.48
7478.00	90.10	270.10	2864.21	-23.68	-4887.27	269.72	4887.32	4887.30	0.32
7540.00	89.40	269.70	2864.48	-23.79	-4949.26	269.72	4949.32	4949.30	1.30
7603.00	90.00	269.70	2864.81	-24.12	-5012.26	269.72	5012.32	5012.30	0.95
7665.00	90.00	269.60	2864.81	-24.50	-5074.26	269.72	5074.32	5074.30	0.16
7729.00	89.30	269.20	2865.20	-25.17	-5138.26	269.72	5138.32	5138.30	1.26
7792.00	89.60	268.90	2865.81	-26.21	-5201.24	269.71	5201.31	5201.29	0.67

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
7855.00	90.10	269.20	2865.97	-27.25	-5264.24	269.70	5264.31	5264.29	0.93
7901.00	90.40	269.40	2865.77	-27.82	-5310.23	269.70	5310.30	5310.29	0.78
7963.00	90.70	269.20	2865.18	-28.57	-5372.22	269.70	5372.30	5372.28	0.58
8026.00	90.80	269.70	2864.35	-29.18	-5435.22	269.69	5435.29	5435.28	0.81
8089.00	91.10	269.70	2863.31	-29.51	-5498.21	269.69	5498.29	5498.27	0.48
8151.00	91.10	270.10	2862.12	-29.62	-5560.19	269.69	5560.27	5560.26	0.65

Projected Survey

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
8345.00	91.10	270.10	2858.39	-29.28	-5754.16	269.71	5754.23	5754.21	0.00