



Weatherford®

SURVEY REPORT

Report Date: 8/6/2017

Customer: Lillis Energy

Job Name: MD-12618791

Well Name: PRIZEHOG BWZ STATE
COM #001H

Field: 3rd Bone Spring

Rig: Trinidad 117

Rig Loc: Lea County, NM

Survey Calculation Method: Minimum Curvature

Magnetic Reference	Target Direction	Total Magnetic Field	Magnetic Dip Angle	Magnetic Declination	Grid Convergence	Total Correction
Grid North	178.19 deg	47864 nT	59.78 deg	6.72 deg	0.54 deg	6.18 deg
Survey Tie-On	Depth	INC	AZ	TVD	NS	EW
	0.00 ft	0.00 deg	0.00 deg	0.00 ft	0.00 ft	0.00 ft

Depth (ft)	Inc (deg)	Azm (deg)	TVD (ft)	Well Head		VSect (ft)	Dogleg (deg/100ft)
				NS (ft)	EW (ft)		
116.00	0.31	306.27	116.00	0.19	-0.25	-0.19	0.27
491.00	0.44	6.91	490.99	2.22	-0.90	-2.24	0.11
664.00	0.79	45.32	663.98	3.71	0.03	-3.71	0.30
845.00	0.26	28.01	844.97	4.95	1.11	-4.92	0.30
913.00	0.40	85.22	912.97	5.11	1.42	-5.06	0.50
1005.00	0.75	80.92	1004.97	5.23	2.33	-5.15	0.38
1095.00	0.92	7.44	1094.96	6.04	3.01	-5.94	1.12
1186.00	0.35	30.29	1185.96	7.00	3.24	-6.90	0.67
1278.00	0.79	241.05	1277.95	6.94	2.83	-6.85	1.20
1323.00	1.45	225.50	1322.94	6.39	2.15	-6.32	1.60
1440.00	2.15	236.48	1439.89	4.14	-0.73	-4.16	0.66
1621.00	2.46	245.27	1620.74	0.64	-7.09	-0.87	0.26
1803.00	2.81	248.35	1802.55	-2.64	-14.79	2.17	0.21
1985.00	3.38	244.75	1984.28	-6.57	-23.78	5.82	0.33
2169.00	2.33	242.55	2168.05	-10.61	-32.01	9.59	0.57
2352.00	1.89	233.14	2350.93	-14.14	-37.73	12.94	0.31
2533.00	1.14	233.32	2531.86	-17.00	-41.56	15.68	0.41
2714.00	1.27	223.04	2712.82	-19.54	-44.37	18.13	0.14
2896.00	1.01	216.62	2894.79	-22.30	-46.70	20.82	0.16
3077.00	0.97	246.94	3075.76	-24.19	-49.07	22.62	0.29
3259.00	0.26	304.69	3257.75	-24.55	-50.82	22.94	0.47
3441.00	1.05	54.29	3439.74	-23.35	-49.81	21.76	0.64
3622.00	1.23	71.16	3620.70	-21.75	-46.62	20.27	0.21
3804.00	1.71	61.58	3802.64	-19.83	-42.39	18.48	0.30
3986.00	1.98	62.28	3984.55	-17.07	-37.21	15.89	0.15
4168.00	2.07	63.16	4166.44	-14.13	-31.50	13.12	0.05
4350.00	3.03	61.58	4348.25	-10.35	-24.33	9.58	0.53
4531.00	3.82	60.79	4528.93	-5.13	-14.86	4.66	0.44
4711.00	3.56	60.17	4708.56	0.57	-4.78	-0.72	0.15
4894.00	3.56	55.78	4891.20	6.59	4.84	-6.44	0.15
5031.00	3.03	55.52	5027.98	11.04	11.35	-10.67	0.39
5110.00	2.81	58.86	5106.87	13.22	14.72	-12.75	0.35
5223.00	2.81	58.68	5219.74	16.09	19.46	-15.47	0.01
5403.00	5.10	359.00	5399.36	26.39	23.09	-25.65	2.45
5585.00	7.03	356.98	5580.33	45.60	22.36	-44.87	1.07

Depth (ft)	Inc (deg)	Azm (deg)	TVD (ft)	Well Head		VSect (ft)	Dogleg (deg/100ft)
				NS (ft)	EW (ft)		
5767.00	9.98	354.17	5760.31	72.42	20.18	-71.75	1.64
5949.00	11.69	354.70	5939.06	106.47	16.87	-105.88	0.94
6131.00	12.18	352.41	6117.13	143.86	12.63	-143.39	0.37
6312.00	12.79	351.53	6293.85	182.60	7.16	-182.29	0.35
6494.00	11.60	358.74	6471.75	220.83	3.79	-220.60	1.06
6675.00	8.40	6.56	6649.98	252.16	4.90	-251.88	1.92
6858.00	7.12	3.92	6831.30	276.76	7.20	-276.39	0.73
7038.00	4.22	0.06	7010.41	294.51	7.97	-294.12	1.62
7220.00	2.42	328.50	7192.11	304.49	5.97	-304.15	1.37
7401.00	1.05	251.69	7373.04	307.23	2.40	-307.00	1.33
7583.00	0.97	237.19	7555.01	305.87	-0.48	-305.73	0.15
7766.00	0.79	225.06	7737.99	304.14	-2.67	-304.07	0.14
7947.00	0.66	225.58	7918.97	302.53	-4.30	-302.51	0.07
8130.00	0.44	220.31	8101.96	301.25	-5.51	-301.28	0.12
8311.00	0.18	207.57	8282.96	300.47	-6.09	-300.51	0.15
8494.00	0.22	221.81	8465.96	299.95	-6.46	-300.01	0.03
8675.00	0.35	147.63	8646.96	299.23	-6.39	-299.28	0.20
8857.00	0.57	150.61	8828.95	297.97	-5.65	-298.00	0.12
9040.00	0.62	172.41	9011.94	296.20	-5.07	-296.21	0.13
9220.00	0.22	213.54	9191.94	294.94	-5.14	-294.96	0.26
9401.00	0.48	334.57	9372.94	295.34	-5.65	-295.37	0.34
9583.00	0.92	320.33	9554.92	297.15	-6.91	-297.22	0.26
9764.00	1.01	320.42	9735.90	299.50	-8.86	-299.63	0.05
9946.00	1.05	290.54	9917.87	301.32	-11.44	-301.53	0.29
10127.00	1.05	286.67	10098.84	302.38	-14.58	-302.69	0.04
10307.00	0.97	199.39	10278.82	301.41	-16.67	-301.79	0.78
10489.00	0.79	202.12	10460.80	298.80	-17.65	-299.21	0.10
10672.00	0.66	253.53	10643.78	297.33	-19.14	-297.79	0.35
10853.00	1.10	223.21	10824.76	295.77	-21.33	-296.29	0.35
11034.00	5.05	252.13	11005.47	292.06	-30.10	-292.86	2.28
11216.00	5.76	252.57	11186.66	286.86	-46.44	-288.19	0.39
11397.00	3.30	235.43	11367.09	281.18	-59.40	-282.92	1.54
11579.00	1.93	195.35	11548.91	275.26	-64.52	-277.16	1.21
11670.00	1.98	179.27	11639.86	272.21	-64.91	-274.12	0.60
11760.00	1.93	192.10	11729.81	269.17	-65.21	-271.09	0.49
11851.00	1.63	207.66	11820.76	266.52	-66.13	-268.48	0.62
11944.00	1.98	195.61	11913.72	263.81	-67.18	-265.80	0.55
12036.00	2.68	180.85	12005.64	260.12	-67.64	-262.13	1.00
12081.00	5.58	169.77	12050.52	256.92	-67.26	-258.92	6.65
12126.00	7.69	171.44	12095.22	251.79	-66.43	-253.76	4.71
12171.00	10.55	178.30	12139.64	244.69	-65.86	-246.65	6.79
12216.00	12.92	180.76	12183.70	235.54	-65.80	-237.50	5.38
12261.00	15.82	184.98	12227.29	224.40	-66.40	-226.38	6.85
12306.00	19.16	184.10	12270.20	210.92	-67.46	-212.94	7.45
12352.00	23.08	182.17	12313.11	194.37	-68.34	-196.43	8.65
12398.00	26.42	179.35	12354.88	175.12	-68.57	-177.20	7.70
12444.00	31.21	175.58	12395.17	152.99	-67.53	-155.05	11.13
12489.00	37.27	172.32	12432.36	127.84	-64.81	-129.82	14.07
12535.00	43.30	169.69	12467.44	98.49	-60.12	-100.34	13.62
12581.00	47.21	168.02	12499.81	66.44	-53.79	-68.11	8.88

Depth (ft)	Inc (deg)	Azm (deg)	TVD (ft)	Well Head		VSect (ft)	Dogleg (deg/100ft)
				NS (ft)	EW (ft)		
12626.00	50.51	166.35	12529.41	33.41	-46.26	-34.85	7.85
12672.00	53.98	167.67	12557.58	-2.03	-38.10	0.82	7.88
12718.00	58.86	168.54	12583.01	-39.52	-30.21	38.54	10.72
12739.00	60.79	169.34	12593.57	-57.33	-26.73	56.46	9.76
12858.00	71.83	173.17	12641.32	-164.87	-10.34	164.46	9.73
12890.00	74.41	172.97	12650.61	-195.26	-6.65	194.96	8.08
12922.00	77.90	172.59	12658.27	-226.08	-2.74	225.88	10.97
12953.00	78.97	172.33	12664.48	-256.19	1.24	256.10	3.55
12985.00	81.71	172.42	12669.85	-287.45	5.43	287.48	8.57
13016.00	84.27	172.78	12673.63	-317.96	9.39	318.10	8.34
13080.00	89.45	176.00	12677.14	-381.53	15.63	381.84	9.53
13175.00	90.31	176.95	12677.34	-476.35	21.47	476.79	1.35
13269.00	90.12	176.60	12676.99	-570.20	26.76	570.76	0.42
13365.00	91.05	176.31	12676.01	-666.01	32.69	666.71	1.01
13460.00	91.91	178.66	12673.55	-760.88	36.86	761.66	2.63
13555.00	88.89	177.46	12672.89	-855.81	40.08	856.65	3.42
13650.00	91.48	178.75	12672.58	-950.75	43.22	951.64	3.05
13745.00	87.84	177.85	12673.15	-1045.69	46.03	1046.62	3.95
13840.00	86.30	180.22	12678.00	-1140.54	47.63	1141.48	2.97
13935.00	85.37	179.93	12684.90	-1235.29	47.51	1236.17	1.03
14030.00	86.55	179.60	12691.60	-1330.05	47.90	1330.90	1.29
14125.00	84.26	180.35	12699.21	-1424.74	47.94	1425.54	2.54
14220.00	89.94	180.88	12704.01	-1519.57	46.92	1520.29	6.00
14314.00	90.49	180.33	12703.66	-1613.56	45.93	1614.21	0.83
14409.00	90.68	181.71	12702.69	-1708.54	44.24	1709.09	1.47
14503.00	89.63	181.53	12702.43	-1802.50	41.58	1802.92	1.13
14598.00	87.04	179.20	12705.19	-1897.45	40.97	1897.79	3.67
14693.00	85.37	176.78	12711.48	-1992.17	44.30	1992.57	3.09
14788.00	85.93	176.59	12718.69	-2086.74	49.77	2087.27	0.62
14882.00	86.30	177.63	12725.06	-2180.40	54.50	2181.03	1.17
14976.00	85.81	177.70	12731.52	-2274.10	58.32	2274.81	0.53
15071.00	88.09	176.90	12736.58	-2368.85	62.79	2369.65	2.54
15166.00	90.31	177.15	12737.90	-2463.71	67.72	2464.62	2.35
15261.00	90.25	176.91	12737.44	-2558.58	72.64	2559.60	0.26
15355.00	89.26	177.32	12737.84	-2652.46	77.38	2653.58	1.14
15450.00	88.52	178.06	12739.68	-2747.36	81.20	2748.56	1.10
15545.00	89.57	179.03	12741.27	-2842.32	83.62	2843.54	1.50
15639.00	90.55	177.71	12741.17	-2936.27	86.29	2937.53	1.75
15734.00	91.05	177.42	12739.84	-3031.18	90.32	3032.52	0.61
15829.00	86.86	176.48	12741.57	-3126.01	95.38	3127.46	4.52
15924.00	87.66	176.02	12746.11	-3220.69	101.58	3222.29	0.97
16019.00	86.68	175.20	12750.80	-3315.30	108.85	3317.08	1.34
16113.00	85.80	175.92	12756.97	-3408.81	116.11	3410.78	1.21
16209.00	85.44	175.43	12764.30	-3504.26	123.33	3506.40	0.63
16304.00	85.81	175.89	12771.55	-3598.71	130.49	3601.04	0.62
16399.00	89.75	176.24	12775.23	-3693.40	137.01	3695.88	4.16
16494.00	88.71	175.61	12776.50	-3788.14	143.76	3790.80	1.28
16589.00	89.20	179.92	12778.24	-3883.03	147.46	3885.75	4.57
16684.00	90.74	179.34	12778.29	-3978.03	148.07	3980.72	1.73
16779.00	87.84	178.76	12779.46	-4073.00	149.65	4075.69	3.11

Depth (ft)	Inc (deg)	Azm (deg)	TVD (ft)	Well Head		VSect (ft)	Dogleg (deg/100ft)
				NS (ft)	EW (ft)		
16874.00	89.26	178.34	12781.87	-4167.93	152.05	4170.66	1.56
16969.00	90.31	176.85	12782.22	-4262.85	156.04	4265.65	1.92
17064.00	89.14	176.26	12782.68	-4357.67	161.75	4360.61	1.38
17158.00	86.79	175.46	12786.02	-4451.36	168.53	4454.46	2.64
17254.00	92.03	174.34	12787.01	-4546.94	177.06	4550.26	5.58
17277.00	93.20	174.17	12785.96	-4569.80	179.36	4573.18	5.14
Projected to Total Depth:							
17417.00	93.20	174.17	12778.14	-4708.86	193.56	4712.62	0.00

* Weatherford surveys from 12858.00 ft MD to 17277.00 ft MD *

* TD at 17417 ft MD *

* The total correction is 6.18 deg relative to Grid North *