



**CHISHOLM
ENERGY**

Chisholm Energy Holdings, LLC

Lea County, NM (NAD83)

Sec. 25, T20S, R34E

Lea South 25 Federal Com 10H

Wellbore #2

Design: Wellbore #2

Standard Survey Report

07 August, 2017





Company:	Chisholm Energy Holdings, LLC	Local Co-ordinate Reference:	Well Lea South 25 Federal Com 10H
Project:	Lea County, NM (NAD83)	TVD Reference:	KB=26 @ 3785.00ft (Latshaw 7)
Site:	Sec. 25, T20S, R34E	MD Reference:	KB=26 @ 3785.00ft (Latshaw 7)
Well:	Lea South 25 Federal Com 10H	North Reference:	Grid
Wellbore:	Wellbore #2	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #2	Database:	EDM 5000.1 Multi User Db

Project	Lea County, NM (NAD83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Sec. 25, T20S, R34E		
Site Position:		Northing:	560,333.1000 usft
From:	Map	Easting:	793,393.3000 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "
		Latitude:	32.5377535
		Longitude:	-103.5154208
		Grid Convergence:	0.44 °

Well	Lea South 25 Federal Com 10H, ACTIVE		
Well Position	+N/-S	0.00 ft	Northing: 560,333.1000 usft
	+E/-W	0.00 ft	Easting: 793,393.3000 usft
Position Uncertainty	0.00 ft	Wellhead Elevation:	0.00 ft
		Latitude:	32.5377535
		Longitude:	-103.5154208
		Ground Level:	3,759.00 ft

Wellbore	Wellbore #2				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	7/26/2017	6.75	60.50	48,286

Design	Wellbore #2				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	10,047.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	0.20	

Survey Program	Date 8/7/2017				
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
344.00	10,047.00	IDS MWD Surveys (Wellbore #1)	MWD	MWD - Standard	
10,110.00	15,095.00	MWD Surveys (Wellbore #2)	MWD	MWD - Standard	

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
344.00	0.20	319.30	344.00	0.46	-0.39	0.45	0.06	0.06	0.00	
795.00	0.40	338.60	794.99	2.52	-1.48	2.51	0.05	0.04	4.28	
1,264.00	0.60	355.90	1,263.98	6.49	-2.25	6.48	0.05	0.04	3.69	
1,736.00	0.60	273.70	1,735.96	9.12	-4.90	9.10	0.17	0.00	-17.42	
1,806.00	1.10	276.70	1,805.95	9.22	-5.93	9.20	0.72	0.71	4.29	
1,896.00	0.80	256.20	1,895.94	9.17	-7.40	9.14	0.50	-0.33	-22.78	
1,990.00	0.40	262.00	1,989.93	8.97	-8.36	8.94	0.43	-0.43	6.17	
2,084.00	0.40	263.70	2,083.93	8.88	-9.01	8.85	0.01	0.00	1.81	
2,179.00	0.40	258.60	2,178.93	8.78	-9.66	8.75	0.04	0.00	-5.37	

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Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
2,273.00	0.60	272.10	2,272.92	8.74	-10.48	8.70	0.25	0.21	14.36
2,367.00	0.90	275.00	2,366.91	8.82	-11.71	8.78	0.32	0.32	3.09
2,462.00	1.00	278.50	2,461.90	9.01	-13.27	8.96	0.12	0.11	3.68
2,556.00	1.40	282.00	2,555.88	9.37	-15.20	9.31	0.43	0.43	3.72
2,651.00	1.90	287.20	2,650.84	10.07	-17.84	10.01	0.55	0.53	5.47
2,745.00	2.40	299.20	2,744.78	11.49	-21.05	11.42	0.71	0.53	12.77
2,839.00	1.80	286.30	2,838.71	12.87	-24.18	12.78	0.81	-0.64	-13.72
3,028.00	0.20	248.70	3,027.68	13.58	-27.34	13.49	0.87	-0.85	-19.89
3,122.00	1.20	112.80	3,121.67	13.14	-26.59	13.05	1.44	1.06	-144.57
3,217.00	1.90	112.30	3,216.64	12.16	-24.21	12.07	0.74	0.74	-0.53
3,311.00	2.20	109.20	3,310.58	10.97	-21.07	10.90	0.34	0.32	-3.30
3,405.00	3.00	103.10	3,404.48	9.82	-16.97	9.76	0.90	0.85	-6.49
3,499.00	3.90	103.50	3,498.31	8.52	-11.46	8.48	0.96	0.96	0.43
3,594.00	4.10	101.70	3,593.08	7.08	-5.00	7.06	0.25	0.21	-1.89
3,688.00	3.20	112.90	3,686.89	5.37	0.71	5.38	1.22	-0.96	11.91
3,783.00	1.90	116.10	3,781.79	3.65	4.57	3.66	1.38	-1.37	3.37
3,878.00	1.40	138.70	3,876.75	2.08	6.75	2.11	0.85	-0.53	23.79
3,972.00	1.30	145.30	3,970.73	0.34	8.11	0.37	0.20	-0.11	7.02
4,066.00	1.30	140.50	4,064.70	-1.36	9.40	-1.32	0.12	0.00	-5.11
4,161.00	1.00	140.50	4,159.68	-2.83	10.61	-2.79	0.32	-0.32	0.00
4,255.00	1.00	143.60	4,253.67	-4.12	11.62	-4.08	0.06	0.00	3.30
4,350.00	1.00	161.50	4,348.65	-5.57	12.38	-5.53	0.33	0.00	18.84
4,444.00	1.10	174.60	4,442.64	-7.25	12.72	-7.20	0.28	0.11	13.94
4,539.00	0.80	182.60	4,537.62	-8.82	12.78	-8.77	0.34	-0.32	8.42
4,633.00	0.70	177.80	4,631.62	-10.05	12.77	-10.00	0.13	-0.11	-5.11
4,728.00	0.50	207.20	4,726.61	-11.00	12.60	-10.95	0.38	-0.21	30.95
4,822.00	0.40	206.10	4,820.61	-11.66	12.27	-11.61	0.11	-0.11	-1.17
4,916.00	0.00	204.50	4,914.61	-11.95	12.13	-11.91	0.43	-0.43	0.00
5,011.00	0.20	261.20	5,009.61	-11.98	11.96	-11.93	0.21	0.21	0.00
5,105.00	0.40	249.00	5,103.61	-12.12	11.49	-12.08	0.22	0.21	-12.98
5,199.00	0.20	265.00	5,197.60	-12.25	11.02	-12.21	0.23	-0.21	17.02
5,292.00	0.30	245.00	5,290.60	-12.37	10.64	-12.33	0.14	0.11	-21.51
5,480.00	0.40	280.10	5,478.60	-12.46	9.55	-12.43	0.12	0.05	18.67
5,575.00	0.40	289.40	5,573.60	-12.29	8.91	-12.26	0.07	0.00	9.79
5,669.00	0.30	309.80	5,667.60	-12.03	8.41	-12.00	0.17	-0.11	21.70
5,763.00	0.30	323.40	5,761.60	-11.67	8.08	-11.64	0.08	0.00	14.47
5,953.00	0.40	6.80	5,951.59	-10.61	7.86	-10.59	0.14	0.05	22.84
6,047.00	0.40	3.50	6,045.59	-9.96	7.92	-9.93	0.02	0.00	-3.51
6,141.00	0.60	5.30	6,139.59	-9.14	7.98	-9.11	0.21	0.21	1.91
6,235.00	0.60	8.40	6,233.58	-8.17	8.10	-8.14	0.03	0.00	3.30
6,330.00	0.50	16.90	6,328.58	-7.28	8.29	-7.25	0.14	-0.11	8.95
6,707.00	0.50	32.90	6,705.56	-4.32	9.66	-4.29	0.04	0.00	4.24
6,802.00	0.50	31.60	6,800.56	-3.62	10.11	-3.59	0.01	0.00	-1.37

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6,896.00	0.60	41.40	6,894.55	-2.90	10.65	-2.87	0.15	0.11	10.43
6,990.00	0.40	48.00	6,988.55	-2.31	11.22	-2.27	0.22	-0.21	7.02
7,084.00	0.40	50.40	7,082.55	-1.88	11.71	-1.84	0.02	0.00	2.55
7,179.00	0.40	52.00	7,177.55	-1.47	12.23	-1.43	0.01	0.00	1.68
7,273.00	0.40	59.50	7,271.54	-1.10	12.77	-1.06	0.06	0.00	7.98
7,367.00	0.10	105.10	7,365.54	-0.96	13.13	-0.91	0.36	-0.32	48.51
7,461.00	0.20	98.00	7,459.54	-1.00	13.37	-0.95	0.11	0.11	-7.55
7,555.00	0.10	82.10	7,553.54	-1.01	13.62	-0.96	0.11	-0.11	-16.91
7,650.00	0.10	246.10	7,648.54	-1.03	13.62	-0.99	0.21	0.00	172.63
7,745.00	0.10	247.90	7,743.54	-1.10	13.47	-1.05	0.00	0.00	1.89
7,839.00	0.20	256.30	7,837.54	-1.17	13.24	-1.12	0.11	0.11	8.94
7,933.00	0.30	268.70	7,931.54	-1.21	12.83	-1.17	0.12	0.11	13.19
8,027.00	0.40	267.60	8,025.54	-1.23	12.26	-1.19	0.11	0.11	-1.17
8,122.00	0.30	254.90	8,120.54	-1.31	11.69	-1.27	0.13	-0.11	-13.37
8,216.00	0.20	6.20	8,214.54	-1.21	11.47	-1.17	0.44	-0.11	118.40
8,311.00	0.30	263.20	8,309.54	-1.08	11.24	-1.04	0.42	0.11	-108.42
8,404.00	0.30	339.90	8,402.54	-0.88	10.91	-0.84	0.40	0.00	82.47
8,499.00	0.60	3.90	8,497.53	-0.15	10.86	-0.11	0.37	0.32	25.26
8,593.00	0.40	291.90	8,591.53	0.47	10.59	0.50	0.65	-0.21	-76.60
8,688.00	0.70	296.20	8,686.53	0.85	9.76	0.88	0.32	0.32	4.53
8,782.00	0.30	13.60	8,780.52	1.34	9.30	1.37	0.74	-0.43	82.34
8,877.00	0.40	335.70	8,875.52	1.88	9.23	1.92	0.26	0.11	-39.89
8,971.00	1.10	290.80	8,969.51	2.50	8.25	2.53	0.92	0.74	-47.77
9,065.00	1.60	281.90	9,063.49	3.09	6.12	3.12	0.58	0.53	-9.47
9,160.00	1.80	258.10	9,158.45	3.06	3.36	3.07	0.77	0.21	-25.05
9,254.00	0.80	239.40	9,252.42	2.42	1.35	2.43	1.14	-1.06	-19.89
9,443.00	0.50	300.80	9,441.41	2.17	-0.49	2.17	0.38	-0.16	32.49
9,538.00	0.80	332.90	9,536.40	2.97	-1.15	2.97	0.49	0.32	33.79
9,632.00	1.10	335.10	9,630.39	4.38	-1.83	4.37	0.32	0.32	2.34
9,727.00	1.20	316.80	9,725.37	5.93	-2.89	5.92	0.40	0.11	-19.26
9,821.00	1.20	311.00	9,819.35	7.29	-4.31	7.28	0.13	0.00	-6.17
9,916.00	0.40	292.60	9,914.34	8.07	-5.37	8.05	0.87	-0.84	-19.37
10,011.00	0.50	273.90	10,009.34	8.23	-6.09	8.21	0.19	0.11	-19.68
10,047.00	0.40	262.60	10,045.34	8.22	-6.37	8.20	0.37	-0.28	-31.39
10,110.00	1.20	18.80	10,108.33	8.82	-6.37	8.80	2.26	1.27	184.44
10,120.00	1.30	37.90	10,118.33	9.01	-6.27	8.99	4.26	1.00	191.00
10,135.00	1.00	69.90	10,133.33	9.19	-6.04	9.17	4.64	-2.00	213.33
10,166.00	1.80	76.50	10,164.32	9.39	-5.32	9.38	2.63	2.58	21.29
10,201.00	4.70	78.40	10,199.26	9.81	-3.38	9.80	8.29	8.29	5.43
10,232.00	7.90	62.10	10,230.07	11.06	-0.25	11.06	11.73	10.32	-52.58
10,264.00	12.00	54.00	10,261.58	14.05	4.39	14.06	13.51	12.81	-25.31
10,295.00	15.30	52.90	10,291.70	18.41	10.26	18.45	10.68	10.65	-3.55
10,327.00	18.40	48.30	10,322.33	24.32	17.40	24.38	10.54	9.69	-14.38



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10,359.00	21.30	42.20	10,352.43	31.99	25.08	32.07	11.13	9.06	-19.06
10,390.00	23.00	35.50	10,381.14	41.09	32.38	41.20	9.81	5.48	-21.61
10,422.00	24.40	27.80	10,410.45	52.03	39.09	52.17	10.61	4.38	-24.06
10,453.00	26.50	19.20	10,438.45	64.23	44.36	64.39	13.70	6.77	-27.74
10,485.00	29.30	15.90	10,466.73	78.51	48.85	78.68	9.99	8.75	-10.31
10,514.00	32.30	13.40	10,491.64	92.87	52.59	93.06	11.25	10.34	-8.62
10,549.00	35.80	9.40	10,520.64	112.08	56.43	112.27	11.87	10.00	-11.43
10,581.00	40.20	9.90	10,545.85	131.49	59.74	131.70	13.78	13.75	1.56
10,611.00	44.40	9.80	10,568.03	151.38	63.19	151.60	14.00	14.00	-0.33
10,644.00	49.70	9.30	10,590.51	175.19	67.19	175.43	16.10	16.06	-1.52
10,675.00	54.30	8.70	10,609.59	199.32	71.01	199.56	14.92	14.84	-1.94
10,705.00	58.20	8.10	10,626.25	223.99	74.65	224.25	13.11	13.00	-2.00
10,737.00	63.10	7.50	10,641.93	251.61	78.43	251.89	15.40	15.31	-1.88
10,769.00	68.40	7.20	10,655.07	280.54	82.16	280.83	16.58	16.56	-0.94
10,800.00	73.10	7.30	10,665.29	309.57	85.85	309.86	15.16	15.16	0.32
10,832.00	78.30	6.90	10,673.19	340.33	89.68	340.64	16.30	16.25	-1.25
10,863.00	82.80	5.70	10,678.28	370.71	93.03	371.03	15.01	14.52	-3.87
10,892.00	86.10	4.00	10,681.08	399.47	95.47	399.80	12.79	11.38	-5.86
10,987.00	87.80	0.20	10,686.14	494.25	98.95	494.59	4.38	1.79	-4.00
11,081.00	88.50	359.40	10,689.17	588.20	98.62	588.54	1.13	0.74	-0.85
11,176.00	90.20	358.20	10,690.25	683.17	96.63	683.50	2.19	1.79	-1.26
11,271.00	90.80	358.30	10,689.42	778.12	93.73	778.44	0.64	0.63	0.11
11,365.00	91.30	358.40	10,687.70	872.06	91.02	872.37	0.54	0.53	0.11
11,458.00	91.40	358.20	10,685.51	965.00	88.26	965.30	0.24	0.11	-0.22
11,553.00	91.60	358.20	10,683.02	1,059.92	85.28	1,060.21	0.21	0.21	0.00
11,647.00	90.10	357.90	10,681.63	1,153.85	82.08	1,154.13	1.63	-1.60	-0.32
11,741.00	90.40	357.10	10,681.22	1,247.76	77.98	1,248.02	0.91	0.32	-0.85
11,834.00	90.50	356.40	10,680.49	1,340.60	72.71	1,340.85	0.76	0.11	-0.75
11,928.00	90.60	355.80	10,679.58	1,434.38	66.32	1,434.60	0.65	0.11	-0.64
12,022.00	90.80	354.90	10,678.43	1,528.06	58.70	1,528.26	0.98	0.21	-0.96
12,116.00	90.40	354.10	10,677.45	1,621.63	49.69	1,621.79	0.95	-0.43	-0.85
12,210.00	89.80	353.60	10,677.29	1,715.08	39.62	1,715.21	0.83	-0.64	-0.53
12,305.00	89.50	354.90	10,677.87	1,809.60	30.10	1,809.70	1.40	-0.32	1.37
12,399.00	89.50	356.30	10,678.69	1,903.32	22.89	1,903.39	1.49	0.00	1.49
12,494.00	89.40	356.20	10,679.60	1,998.11	16.68	1,998.16	0.15	-0.11	-0.11
12,611.00	88.80	358.10	10,681.44	2,114.95	10.86	2,114.97	1.70	-0.51	1.62
12,706.00	90.20	358.40	10,682.27	2,209.90	7.96	2,209.91	1.51	1.47	0.32
12,801.00	90.90	359.30	10,681.35	2,304.87	6.05	2,304.88	1.20	0.74	0.95
12,895.00	90.50	359.40	10,680.21	2,398.86	4.99	2,398.86	0.44	-0.43	0.11
12,990.00	90.40	359.50	10,679.46	2,493.85	4.07	2,493.85	0.15	-0.11	0.11
13,084.00	90.60	359.00	10,678.64	2,587.84	2.84	2,587.83	0.57	0.21	-0.53
13,178.00	90.10	359.40	10,678.06	2,681.83	1.53	2,681.82	0.68	-0.53	0.43
13,273.00	91.10	359.70	10,677.07	2,776.82	0.78	2,776.80	1.10	1.05	0.32
13,367.00	90.90	359.30	10,675.43	2,870.80	-0.04	2,870.78	0.48	-0.21	-0.43



Company: Chisholm Energy Holdings, LLC
Project: Lea County, NM (NAD83)
Site: Sec. 25, T20S, R34E
Well: Lea South 25 Federal Com 10H
Wellbore: Wellbore #2
Design: Wellbore #2

Local Co-ordinate Reference: Well Lea South 25 Federal Com 10H
TVD Reference: KB=26 @ 3785.00ft (Latshaw 7)
MD Reference: KB=26 @ 3785.00ft (Latshaw 7)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Multi User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,461.00	89.70	0.00	10,674.94	2,964.79	-0.61	2,964.77	1.48	-1.28	0.74
13,555.00	90.10	1.90	10,675.10	3,058.78	0.95	3,058.76	2.07	0.43	2.02
13,650.00	90.50	1.50	10,674.60	3,153.73	3.77	3,153.73	0.60	0.42	-0.42
13,744.00	90.90	1.40	10,673.46	3,247.70	6.15	3,247.70	0.44	0.43	-0.11
13,838.00	91.10	0.80	10,671.81	3,341.66	7.95	3,341.67	0.67	0.21	-0.64
13,933.00	91.80	1.10	10,669.41	3,436.62	9.52	3,436.63	0.80	0.74	0.32
14,027.00	89.90	2.30	10,668.02	3,530.56	12.31	3,530.58	2.39	-2.02	1.28
14,122.00	89.80	1.80	10,668.27	3,625.50	15.71	3,625.53	0.54	-0.11	-0.53
14,216.00	89.60	1.60	10,668.76	3,719.46	18.50	3,719.50	0.30	-0.21	-0.21
14,310.00	89.30	1.30	10,669.66	3,813.42	20.88	3,813.47	0.45	-0.32	-0.32
14,405.00	88.80	1.30	10,671.23	3,908.38	23.03	3,908.44	0.53	-0.53	0.00
14,498.00	88.90	2.00	10,673.10	4,001.33	25.71	4,001.39	0.76	0.11	0.75
14,593.00	88.80	1.60	10,675.01	4,096.26	28.69	4,096.34	0.43	-0.11	-0.42
14,688.00	88.90	1.70	10,676.91	4,191.20	31.43	4,191.29	0.15	0.11	0.11
14,782.00	89.50	0.20	10,678.23	4,285.18	32.99	4,285.27	1.72	0.64	-1.60
14,876.00	89.50	359.70	10,679.05	4,379.17	32.90	4,379.26	0.53	0.00	-0.53
14,970.00	89.70	359.30	10,679.70	4,473.17	32.08	4,473.25	0.48	0.21	-0.43
15,042.00	90.00	358.70	10,679.89	4,545.16	30.83	4,545.24	0.93	0.42	-0.83
Final MWD Survey									
15,095.00	90.00	358.70	10,679.89	4,598.14	29.63	4,598.22	0.00	0.00	0.00
Projeciton to TD									

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
15,042.00	10,679.89	4,545.16	30.83	Final MWD Survey
15,095.00	10,679.89	4,598.14	29.63	Projeciton to TD

Checked By: _____ Approved By: _____ Date: _____