

Chisholm Energy Holdings, LLC

Lea County, NM (NAD83)

Sec 25-T20S-R34E

Lea South 25 Fed Com 1BS 11H

Wellbore #2

Design: Wellbore #2

Standard Survey Report

12 October, 2017

REC'DS OCD

JAN 19 2018

RECEIVED

Integrity Directional Services, LLC

Survey Report

Company:	Chisholm Energy Holdings, LLC	Local Co-ordinate Reference:	Well Lea South 25 Fed Com 1BS 11H
Project:	Lea County, NM (NAD83)	TVD Reference:	KB=26' @ 3769.00ft (Latshaw 7)
Site:	Sec 25-T20S-R34E	MD Reference:	KB=26' @ 3769.00ft (Latshaw 7)
Well:	Lea South 25 Fed Com 1BS 11H	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:	560,333.0928 usft	Latitude: 32.537754
From:	Map	Easting:	793,393.3001 usft	Longitude: -103.515421
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence: 0.44 °

Well	Lea South 25 Fed Com 1BS 11H			
Well Position	+N/-S	0.00 ft	Northing:	560,343.8000 usft
	+E/-W	0.00 ft	Easting:	794,633.7000 usft
Position Uncertainty	0.00 ft	Wellhead Elevation:	0.00 ft	Ground Level: 3,743.00 ft

Wellbore	Wellbore #2				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	10/9/2017	6.73	60.48	48,260

Design	Wellbore #2				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	12,979.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	2.34	

Survey Program	Date	10/12/2017			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
100.00	1,173.00	Gyro Survey (Wellbore #1)	NS-GYRO-MS	North sensing gyrocompassing m/s	
1,305.00	12,979.00	IDS MWD Surveys (Wellbore #1)	MWD	MWD - Standard	
13,071.00	14,080.00	IDS 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	
100.00	0.53	288.32	100.00	0.15	-0.44	0.13	0.53	0.53	0.00	
200.00	0.80	297.10	199.99	0.61	-1.50	0.55	0.29	0.27	8.78	
300.00	0.87	295.19	299.98	1.25	-2.81	1.13	0.08	0.07	-1.91	
400.00	0.98	295.10	399.97	1.94	-4.27	1.76	0.11	0.11	-0.09	
500.00	1.23	295.11	499.95	2.75	-6.02	2.51	0.25	0.25	0.01	
600.00	1.29	296.44	599.93	3.71	-8.00	3.38	0.07	0.06	1.33	
700.00	1.43	285.72	699.90	4.55	-10.20	4.13	0.29	0.14	-10.72	
800.00	1.83	287.76	799.86	5.38	-12.93	4.84	0.40	0.40	2.04	

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900.00	2.09	290.36	899.80	6.50	-16.16	5.83	0.27	0.26	2.60
1,000.00	2.15	292.20	999.73	7.84	-19.60	7.03	0.09	0.06	1.84
1,100.00	2.76	286.78	1,099.64	9.24	-23.64	8.27	0.65	0.61	-5.42
1,173.00	2.83	286.45	1,172.55	10.26	-27.06	9.15	0.10	0.10	-0.45
1,305.00	2.60	289.10	1,304.40	12.16	-33.01	10.81	0.20	-0.17	2.01
1,333.00	2.20	283.70	1,332.38	12.50	-34.13	11.09	1.64	-1.43	-19.29
1,427.00	1.50	262.00	1,426.33	12.75	-37.10	11.23	1.04	-0.74	-23.09
1,521.00	1.50	240.30	1,520.30	11.97	-39.39	10.36	0.60	0.00	-23.09
1,615.00	1.60	236.20	1,614.26	10.63	-41.55	8.93	0.16	0.11	-4.36
1,709.00	2.10	237.10	1,708.21	8.97	-44.09	7.16	0.53	0.53	0.96
1,793.00	2.20	242.60	1,792.16	7.39	-46.81	5.47	0.27	0.12	6.55
1,899.00	2.60	241.30	1,898.06	5.30	-50.73	3.22	0.38	0.38	-1.23
1,993.00	1.70	220.80	1,992.00	3.22	-53.51	1.03	1.24	-0.96	-21.81
2,088.00	2.10	219.70	2,086.94	0.81	-55.54	-1.45	0.42	0.42	-1.16
2,183.00	2.60	216.80	2,181.86	-2.25	-57.94	-4.61	0.54	0.53	-3.05
2,277.00	2.20	212.10	2,275.78	-5.49	-60.18	-7.94	0.47	-0.43	-5.00
2,371.00	2.60	211.90	2,369.70	-8.82	-62.26	-11.36	0.43	0.43	-0.21
2,466.00	1.40	194.70	2,464.64	-11.78	-63.70	-14.37	1.40	-1.26	-18.11
2,560.00	1.50	180.20	2,558.61	-14.12	-63.99	-16.72	0.40	0.11	-15.43
2,655.00	1.60	170.00	2,653.58	-16.67	-63.77	-19.26	0.31	0.11	-10.74
2,749.00	2.20	168.80	2,747.52	-19.73	-63.19	-22.29	0.64	0.64	-1.28
2,843.00	2.00	157.40	2,841.46	-23.01	-62.21	-25.53	0.49	-0.21	-12.13
2,936.00	2.60	144.30	2,934.39	-26.22	-60.35	-28.67	0.85	0.65	-14.09
3,031.00	2.30	97.00	3,029.31	-28.21	-57.20	-30.52	2.09	-0.32	-49.79
3,125.00	2.90	79.10	3,123.21	-27.99	-53.00	-30.13	1.07	0.64	-19.04
3,219.00	1.80	62.10	3,217.13	-26.85	-49.36	-28.84	1.37	-1.17	-18.09
3,313.00	1.10	51.00	3,311.10	-25.59	-47.35	-27.50	0.80	-0.74	-11.81
3,408.00	1.50	53.40	3,406.08	-24.27	-45.64	-26.12	0.42	0.42	2.53
3,502.00	2.60	57.30	3,500.02	-22.39	-42.86	-24.12	1.18	1.17	4.15
3,597.00	2.90	60.80	3,594.91	-20.05	-38.95	-21.62	0.36	0.32	3.68
3,679.00	1.40	65.10	3,676.85	-18.62	-36.23	-20.08	1.84	-1.83	5.24
3,774.00	0.70	73.40	3,771.83	-17.96	-34.62	-19.36	0.75	-0.74	8.74
3,868.00	0.90	69.90	3,865.82	-17.54	-33.38	-18.89	0.22	0.21	-3.72
3,963.00	1.00	67.90	3,960.81	-16.98	-31.91	-18.27	0.11	0.11	-2.11
4,057.00	1.10	65.70	4,054.79	-16.30	-30.33	-17.52	0.11	0.11	-2.34
4,152.00	1.10	68.10	4,149.77	-15.58	-28.65	-16.74	0.05	0.00	2.53
4,247.00	1.20	71.20	4,244.76	-14.92	-26.86	-16.00	0.12	0.11	3.26
4,341.00	1.20	72.50	4,338.73	-14.31	-24.99	-15.32	0.03	0.00	1.38
4,436.00	1.40	73.60	4,433.71	-13.68	-22.93	-14.61	0.21	0.21	1.16
4,530.00	1.50	73.50	4,527.68	-13.01	-20.65	-13.84	0.11	0.11	-0.11
4,625.00	1.50	73.90	4,622.65	-12.31	-18.26	-13.04	0.01	0.00	0.42
4,719.00	1.60	71.00	4,716.61	-11.54	-15.84	-12.18	0.14	0.11	-3.09
4,813.00	1.50	73.00	4,810.58	-10.75	-13.42	-11.29	0.12	-0.11	2.13

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4,907.00	1.60	75.60	4,904.54	-10.07	-10.97	-10.51	0.13	0.11	2.77
5,001.00	1.60	73.60	4,998.51	-9.37	-8.44	-9.71	0.06	0.00	-2.13
5,096.00	1.50	73.90	5,093.47	-8.65	-5.98	-8.89	0.11	-0.11	0.32
5,190.00	1.50	73.10	5,187.44	-7.95	-3.62	-8.09	0.02	0.00	-0.85
5,284.00	1.50	73.90	5,281.41	-7.25	-1.26	-7.30	0.02	0.00	0.85
5,379.00	1.60	77.00	5,376.37	-6.61	1.23	-6.55	0.14	0.11	3.26
5,473.00	1.50	75.90	5,470.34	-6.02	3.70	-5.86	0.11	-0.11	-1.17
5,567.00	1.60	73.70	5,564.31	-5.35	6.15	-5.09	0.12	0.11	-2.34
5,755.00	1.60	77.00	5,752.23	-4.02	11.23	-3.56	0.05	0.00	1.76
5,850.00	1.30	69.80	5,847.20	-3.35	13.53	-2.79	0.37	-0.32	-7.58
5,944.00	1.30	78.30	5,941.18	-2.77	15.58	-2.13	0.20	0.00	9.04
6,227.00	1.40	80.80	6,224.10	-1.56	22.14	-0.66	0.04	0.04	0.88
6,322.00	1.30	78.40	6,319.07	-1.16	24.34	-0.16	0.12	-0.11	-2.53
6,416.00	1.50	79.60	6,413.04	-0.72	26.59	0.36	0.22	0.21	1.28
6,511.00	1.40	79.50	6,508.01	-0.29	28.96	0.90	0.11	-0.11	-0.11
6,605.00	1.40	85.00	6,601.99	0.02	31.23	1.30	0.14	0.00	5.85
6,698.00	1.20	88.30	6,694.96	0.15	33.33	1.51	0.23	-0.22	3.55
6,793.00	1.20	86.40	6,789.94	0.24	35.32	1.68	0.04	0.00	-2.00
6,888.00	1.10	89.80	6,884.92	0.31	37.23	1.83	0.13	-0.11	3.58
6,982.00	0.90	96.10	6,978.91	0.23	38.86	1.82	0.24	-0.21	6.70
7,076.00	0.90	94.60	7,072.90	0.10	40.33	1.74	0.03	0.00	-1.60
7,170.00	1.10	104.30	7,166.88	-0.19	41.94	1.53	0.28	0.21	10.32
7,263.00	1.20	106.90	7,259.86	-0.69	43.74	1.10	0.12	0.11	2.80
7,357.00	0.90	105.50	7,353.85	-1.17	45.39	0.68	0.32	-0.32	-1.49
7,452.00	0.70	118.10	7,448.84	-1.65	46.62	0.26	0.28	-0.21	13.26
7,546.00	0.70	124.80	7,542.83	-2.24	47.60	-0.30	0.09	0.00	7.13
7,640.00	0.70	117.20	7,636.82	-2.84	48.58	-0.85	0.10	0.00	-8.09
7,734.00	0.60	132.70	7,730.82	-3.43	49.45	-1.41	0.21	-0.11	16.49
7,828.00	0.60	151.30	7,824.81	-4.20	50.05	-2.15	0.21	0.00	19.79
7,923.00	0.50	179.40	7,919.81	-5.05	50.30	-2.99	0.30	-0.11	29.58
8,016.00	0.70	184.30	8,012.80	-6.02	50.26	-3.96	0.22	0.22	5.27
8,111.00	0.60	180.40	8,107.80	-7.10	50.21	-5.04	0.12	-0.11	-4.11
8,205.00	0.70	180.60	8,201.79	-8.16	50.20	-6.11	0.11	0.11	0.21
8,299.00	0.50	188.00	8,295.79	-9.14	50.14	-7.09	0.23	-0.21	7.87
8,394.00	0.60	186.10	8,390.78	-10.05	50.03	-8.00	0.11	0.11	-2.00
8,488.00	0.70	203.60	8,484.78	-11.06	49.75	-9.02	0.24	0.11	18.62
8,583.00	0.70	206.90	8,579.77	-12.11	49.25	-10.09	0.04	0.00	3.47
8,677.00	0.70	207.30	8,673.76	-13.13	48.73	-11.13	0.01	0.00	0.43
8,771.00	0.40	199.10	8,767.76	-13.96	48.36	-11.97	0.33	-0.32	-8.72
8,865.00	0.40	202.30	8,861.76	-14.57	48.13	-12.59	0.02	0.00	3.40
8,953.00	0.40	212.90	8,949.75	-15.11	47.84	-13.14	0.08	0.00	12.05
8,990.00	0.40	250.10	8,986.75	-15.26	47.65	-13.30	0.69	0.00	100.54
9,053.00	7.10	74.80	9,049.60	-14.32	51.21	-12.21	11.90	10.63	-278.25

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9,084.00	11.70	72.00	9,080.18	-12.84	56.05	-10.54	14.91	14.84	-9.03
9,116.00	13.40	57.60	9,111.42	-9.85	62.26	-7.30	11.09	5.31	-45.00
9,147.00	16.00	56.20	9,141.40	-5.55	68.85	-2.73	8.46	8.39	-4.52
9,178.00	19.00	53.00	9,170.96	-0.13	76.43	2.99	10.16	9.68	-10.32
9,210.00	22.90	49.90	9,200.84	7.01	85.36	10.49	12.67	12.19	-9.69
9,241.00	26.60	46.20	9,228.99	15.71	94.98	19.57	12.93	11.94	-11.94
9,271.00	29.30	43.30	9,255.49	25.70	104.87	29.96	10.07	9.00	-9.67
9,304.00	32.00	40.40	9,283.88	38.24	116.08	42.95	9.33	8.18	-8.79
9,336.00	33.80	37.40	9,310.75	51.77	126.98	56.91	7.59	5.63	-9.38
9,367.00	34.50	34.40	9,336.40	65.86	137.18	71.41	5.88	2.26	-9.68
9,398.00	36.90	29.70	9,361.58	81.20	146.75	87.12	11.75	7.74	-15.16
9,430.00	39.30	25.90	9,386.77	98.66	155.94	104.95	10.48	7.50	-11.88
9,461.00	40.60	23.30	9,410.53	116.76	164.22	123.37	6.82	4.19	-8.39
9,493.00	41.20	19.80	9,434.72	136.24	171.91	143.15	7.40	1.88	-10.94
9,524.00	43.40	17.60	9,457.65	156.00	178.59	163.17	8.55	7.10	-7.10
9,556.00	43.90	14.40	9,480.81	177.23	184.67	184.62	7.08	1.56	-10.00
9,587.00	44.30	10.80	9,503.07	198.28	189.38	205.85	8.18	1.29	-11.61
9,619.00	45.30	5.90	9,525.79	220.57	192.64	228.26	11.23	3.13	-15.31
9,650.00	46.60	1.70	9,547.34	242.80	194.11	250.52	10.60	4.19	-13.55
9,681.00	48.10	358.90	9,568.35	265.59	194.22	273.30	8.22	4.84	-9.03
9,713.00	51.10	358.00	9,589.09	289.95	193.56	297.61	9.62	9.38	-2.81
9,744.00	54.40	359.10	9,607.85	314.61	192.94	322.23	11.01	10.65	3.55
9,775.00	56.50	0.20	9,625.43	340.14	192.78	347.73	7.38	6.77	3.55
9,807.00	58.70	1.70	9,642.57	367.15	193.24	374.74	7.93	6.88	4.69
9,838.00	60.00	3.60	9,658.38	393.79	194.47	401.41	6.74	4.19	6.13
9,870.00	63.10	4.20	9,673.62	421.86	196.39	429.53	9.83	9.69	1.88
9,901.00	66.50	5.90	9,686.82	449.79	198.86	457.54	12.04	10.97	5.48
9,933.00	70.20	6.60	9,698.62	479.35	202.10	487.21	11.74	11.56	2.19
9,964.00	73.80	6.00	9,708.20	508.65	205.33	516.61	11.76	11.61	-1.94
9,996.00	77.20	4.90	9,716.21	539.49	208.27	547.54	11.13	10.63	-3.44
10,027.00	81.00	3.40	9,722.07	569.84	210.47	577.96	13.15	12.26	-4.84
10,059.00	83.80	2.40	9,726.31	601.52	212.08	609.68	9.28	8.75	-3.13
10,114.00	88.80	0.10	9,729.86	656.37	213.27	664.53	10.00	9.09	-4.18
10,151.00	88.90	359.70	9,730.60	693.36	213.21	701.49	1.11	0.27	-1.08
10,243.00	89.10	359.70	9,732.20	785.35	212.73	793.38	0.22	0.22	0.00
10,338.00	89.20	359.60	9,733.61	880.34	212.14	888.26	0.15	0.11	-0.11
10,432.00	89.90	358.90	9,734.35	974.32	210.91	982.12	1.05	0.74	-0.74
10,526.00	90.40	357.10	9,734.10	1,068.26	207.63	1,075.85	1.99	0.53	-1.91
10,620.00	89.70	357.50	9,734.02	1,162.16	203.21	1,169.48	0.86	-0.74	0.43
10,714.00	90.70	358.80	9,733.69	1,256.10	200.17	1,263.23	1.74	1.06	1.38
10,808.00	90.70	358.70	9,732.55	1,350.07	198.12	1,357.04	0.11	0.00	-0.11
10,903.00	91.20	359.20	9,730.97	1,445.04	196.38	1,451.86	0.74	0.53	0.53
10,997.00	89.70	359.20	9,730.23	1,539.03	195.07	1,545.71	1.60	-1.60	0.00
11,091.00	90.80	359.60	9,729.82	1,633.02	194.08	1,639.59	1.25	1.17	0.43

Integrity Directional Services, LLC

Survey Report

Company:	Chisholm Energy Holdings, LLC	Local Co-ordinate Reference:	Well Lea South 25 Fed Com 1BS 11H
Project:	Lea County, NM (NAD83)	TVD Reference:	KB=26' @ 3769.00ft (Latshaw 7)
Site:	Sec 25-T20S-R34E	MD Reference:	KB=26' @ 3769.00ft (Latshaw 7)
Well:	Lea South 25 Fed Com 1BS 11H	North Reference:	Grid
Wellbore:	Wellbore #2	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #2	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)
11,186.00	89.90	359.00	9,729.24	1,728.01	192.92	1,734.45	1.14	-0.95	-0.63
11,280.00	90.80	359.60	9,728.67	1,822.00	191.77	1,828.31	1.15	0.96	0.64
11,375.00	91.80	0.50	9,726.51	1,916.97	191.86	1,923.21	1.42	1.05	0.95
11,469.00	92.40	2.30	9,723.07	2,010.88	194.15	2,017.13	2.02	0.64	1.91
11,563.00	93.00	1.70	9,718.64	2,104.72	197.43	2,111.02	0.90	0.64	-0.64
11,657.00	91.50	0.90	9,714.95	2,198.62	199.56	2,204.93	1.81	-1.60	-0.85
11,752.00	90.20	0.20	9,713.54	2,293.60	200.47	2,299.87	1.55	-1.37	-0.74
11,846.00	91.50	1.00	9,712.15	2,387.58	201.46	2,393.82	1.62	1.38	0.85
11,940.00	91.40	1.10	9,709.77	2,481.54	203.18	2,487.76	0.15	-0.11	0.11
12,035.00	90.90	1.00	9,707.86	2,576.50	204.92	2,582.72	0.54	-0.53	-0.11
12,129.00	91.60	0.40	9,705.81	2,670.47	206.07	2,676.66	0.98	0.74	-0.64
12,223.00	91.30	0.90	9,703.43	2,764.43	207.13	2,770.59	0.62	-0.32	0.53
12,317.00	90.40	3.40	9,702.04	2,858.35	210.66	2,864.57	2.83	-0.96	2.66
12,412.00	90.70	5.00	9,701.12	2,953.09	217.62	2,959.51	1.71	0.32	1.68
12,506.00	90.20	5.80	9,700.39	3,046.66	226.46	3,053.37	1.00	-0.53	0.85
12,601.00	90.30	5.90	9,699.97	3,141.17	236.14	3,148.19	0.15	0.11	0.11
12,696.00	87.40	3.50	9,701.88	3,235.81	243.93	3,243.07	3.96	-3.05	-2.53
12,791.00	86.90	0.70	9,706.60	3,330.62	247.40	3,337.95	2.99	-0.53	-2.95
12,885.00	86.70	359.40	9,711.85	3,424.47	247.49	3,431.72	1.40	-0.21	-1.38
12,979.00	86.90	357.80	9,717.10	3,518.30	245.19	3,525.37	1.71	0.21	-1.70
13,071.00	89.70	357.20	9,719.83	3,610.16	241.18	3,617.00	3.11	3.04	-0.65
13,165.00	89.50	356.40	9,720.48	3,704.01	235.93	3,710.55	0.88	-0.21	-0.85
13,261.00	90.50	357.10	9,720.48	3,799.85	230.49	3,806.09	1.27	1.04	0.73
13,355.00	90.60	356.40	9,719.58	3,893.70	225.16	3,899.64	0.75	0.11	-0.74
13,448.00	91.30	357.60	9,718.04	3,986.55	220.30	3,992.22	1.49	0.75	1.29
13,543.00	91.80	357.40	9,715.47	4,081.43	216.15	4,086.85	0.57	0.53	-0.21
13,637.00	92.30	357.10	9,712.11	4,175.26	211.65	4,180.42	0.62	0.53	-0.32
13,731.00	90.00	356.80	9,710.22	4,269.10	206.65	4,273.98	2.47	-2.45	-0.32
13,825.00	90.80	357.00	9,709.56	4,362.96	201.56	4,367.55	0.88	0.85	0.21
13,920.00	91.80	357.30	9,707.41	4,457.82	196.84	4,462.14	1.10	1.05	0.32
14,014.00	92.00	357.00	9,704.29	4,551.65	192.17	4,555.70	0.38	0.21	-0.32
Last IDS MWD Survey									
14,080.00	92.00	357.00	9,701.99	4,617.52	188.72	4,621.37	0.00	0.00	0.00
Projection to TD - 25 Fed Com 1BS 11H BHL									

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
14,014.00	9,704.29	4,551.65	192.17	Last IDS MWD Survey
14,080.00	9,701.99	4,617.52	188.72	Projection to TD

Integrity Directional Services, LLC

Survey Report

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Wellbore:	Wellbore #2	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #2	Database:	EDM 5000.1 Multi User Db

Checked By: _____ Approved By: _____ Date: _____