

30-025-4443

Chisholm Energy Holdings, LLC

Lea County, NM (NAD83)

Sec 17-T22S-R35E

Antler 17 State 2 BS 3H

Wellbore #2

Design: Wellbore #2

Standard Survey Report

07 June, 2018

Survey Report

Company:	Chisholm Energy Holdings, LLC	Local Co-ordinate Reference:	Well Antler 17 State 2 BS 3H
Project:	Lea County, NM (NAD83)	TVD Reference:	KB=26 @ 3579.50ft (Latshaw 17)
	Sec 17-T22S-R35E	MD Reference:	KB=26 @ 3579.50ft (Latshaw 17)
	Antler 17 State 2 BS 3H	North Reference:	Grid
Wellbore:	Wellbore #2	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #2	Database:	EDM 5000.1

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		

Sec 17-T22S-R35E			
Position:		Northing:	504,860.98 usft
From:	Map	Easting:	830,002.89 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "
		Latitude:	32.384463
		Longitude:	-103.398214
		Grid Convergence:	0.50 °

Antler 17 State 2 BS 3H			
Position	+N/-S	0.00 ft	Northing: 505,022.86 usft
	+E/-W	0.00 ft	Easting: 831,166.22 usft
Position Uncertainty		0.00 ft	Wellhead Elevation: 0.00 ft
			Latitude: 32.384880
			Longitude: -103.394441
			Ground Level: 3,553.50 ft

Wellbore	Wellbore #2				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	HDGM	1/11/2018	6.82	60.27	48,172

Design	Wellbore #2				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	9,625.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(ft)	(ft)	(ft)	(°)	
	0.00	0.00	0.00	359.46	

Survey Program	Date 6/7/2018				
From	To	Survey (Wellbore)	Tool Name	Description	
100.00	5,944.00	Gyro Surveys (Wellbore #1)	NS-GYRO-MS	North sensing gyrocompassing m/s	
6,118.00	9,625.00	IDS MWD Surveys (Wellbore #1)	MWD	MWD - Standard	
9,780.00	15,237.00	IDS MWD Surveys Curve/Lateral (Wellbore #1)	MWD	MWD - Standard	

Survey										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Vertical	Dogleg	Build	Turn	
Depth	(°)	(°)	Depth	(ft)	(ft)	Section	Rate	Rate	Rate	
(ft)			(ft)			(ft)	(°/100usft)	(°/100usft)	(°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.49	158.58	100.00	-0.40	0.16	-0.40	0.49	0.49	0.00	
200.00	0.48	161.83	200.00	-1.19	0.44	-1.20	0.03	-0.01	3.25	
300.00	0.71	172.59	299.99	-2.21	0.65	-2.21	0.25	0.23	10.76	
400.00	0.85	165.70	399.98	-3.54	0.92	-3.55	0.17	0.14	-6.89	
500.00	1.14	164.66	499.97	-5.22	1.36	-5.23	0.29	0.29	-1.04	
600.00	1.13	169.32	599.95	-7.15	1.81	-7.16	0.09	-0.01	4.66	
700.00	1.21	166.85	699.92	-9.14	2.23	-9.16	0.09	0.08	-2.47	
800.00	1.27	163.79	799.90	-11.24	2.78	-11.26	0.09	0.06	-3.06	

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Well:	Antler 17 State 2 BS 3H	North Reference:	Grid
Wellbore:	Wellbore #2	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #2	Database:	EDM 5000.1

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)
900.00	1.22	161.21	899.88	-13.31	3.43	-13.34	0.08	-0.05	-2.58
1,000.00	1.65	173.37	999.85	-15.75	3.94	-15.78	0.52	0.43	12.16
1,100.00	1.89	178.67	1,099.80	-18.82	4.15	-18.86	0.29	0.24	5.30
1,200.00	2.09	182.15	1,199.74	-22.29	4.12	-22.33	0.23	0.20	3.48
1,300.00	1.56	180.64	1,299.69	-25.48	4.03	-25.52	0.53	-0.53	-1.51
1,400.00	1.35	178.38	1,399.66	-28.02	4.05	-28.05	0.22	-0.21	-2.26
1,500.00	1.26	167.12	1,499.63	-30.27	4.33	-30.31	0.27	-0.09	-11.26
1,600.00	2.02	160.06	1,599.59	-32.99	5.18	-33.04	0.78	0.76	-7.06
1,700.00	1.71	145.62	1,699.54	-35.88	6.62	-35.94	0.56	-0.31	-14.44
1,800.00	1.32	122.87	1,799.50	-37.74	8.43	-37.82	0.71	-0.39	-22.75
1,900.00	1.65	102.49	1,899.47	-38.68	10.80	-38.78	0.62	0.33	-20.38
2,000.00	2.13	96.98	1,999.41	-39.21	14.05	-39.34	0.51	0.48	-5.51
2,100.00	2.42	81.90	2,099.34	-39.14	17.99	-39.31	0.66	0.29	-15.08
2,200.00	1.80	59.99	2,199.27	-38.06	21.44	-38.26	1.01	-0.62	-21.91
2,300.00	1.49	39.94	2,299.23	-36.28	23.63	-36.50	0.65	-0.31	-20.05
2,400.00	0.96	11.13	2,399.21	-34.46	24.63	-34.69	0.80	-0.53	-28.81
2,500.00	0.77	14.99	2,499.19	-32.99	24.96	-33.22	0.20	-0.19	3.86
2,600.00	0.95	356.58	2,599.18	-31.51	25.09	-31.74	0.33	0.18	-18.41
2,700.00	0.82	22.67	2,699.17	-30.02	25.32	-30.26	0.42	-0.13	26.09
2,800.00	0.95	2.13	2,799.16	-28.53	25.62	-28.77	0.34	0.13	-20.54
2,900.00	1.16	17.45	2,899.14	-26.74	25.96	-26.98	0.35	0.21	15.32
3,000.00	1.59	15.52	2,999.11	-24.44	26.63	-24.69	0.43	0.43	-1.93
3,100.00	1.53	25.33	3,099.08	-21.89	27.57	-22.15	0.27	-0.06	9.81
3,200.00	2.08	28.14	3,199.03	-19.09	29.00	-19.36	0.56	0.55	2.81
3,300.00	2.04	33.41	3,298.96	-16.00	30.84	-16.29	0.19	-0.04	5.27
3,400.00	1.72	28.76	3,398.91	-13.20	32.54	-13.51	0.35	-0.32	-4.65
3,500.00	0.99	11.73	3,498.88	-11.04	33.44	-11.35	0.83	-0.73	-17.03
3,600.00	1.06	348.15	3,598.87	-9.29	33.42	-9.60	0.42	0.07	-23.58
3,700.00	1.07	349.50	3,698.85	-7.46	33.06	-7.77	0.03	0.01	1.35
3,800.00	1.53	11.60	3,798.82	-5.24	33.16	-5.55	0.67	0.46	22.10
3,900.00	1.46	0.30	3,898.79	-2.66	33.44	-2.97	0.30	-0.07	-11.30
4,000.00	1.49	10.27	3,998.76	-0.10	33.67	-0.42	0.26	0.03	9.97
4,100.00	1.50	347.77	4,098.72	2.46	33.63	2.14	0.58	0.01	-22.50
4,200.00	1.53	351.72	4,198.69	5.06	33.16	4.74	0.11	0.03	3.95
4,300.00	1.27	329.71	4,298.66	7.33	32.41	7.03	0.59	-0.26	-22.01
4,400.00	1.35	297.02	4,398.63	8.83	30.80	8.54	0.74	0.08	-32.69
4,500.00	1.56	268.92	4,498.60	9.34	28.39	9.07	0.74	0.21	-28.10
4,600.00	1.93	263.65	4,598.56	9.12	25.35	8.88	0.40	0.37	-5.27
4,700.00	1.35	260.20	4,698.51	8.74	22.52	8.52	0.59	-0.58	-3.45
4,800.00	1.21	279.58	4,798.49	8.71	20.32	8.52	0.45	-0.14	19.38
4,900.00	0.95	287.06	4,898.47	9.13	18.48	8.96	0.30	-0.26	7.48
5,000.00	0.98	282.35	4,998.46	9.56	16.86	9.40	0.08	0.03	-4.71
5,100.00	1.01	294.75	5,098.44	10.11	15.22	9.97	0.22	0.03	12.40

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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)
5,200.00	0.49	283.60	5,198.43	10.58	14.00	10.45	0.54	-0.52	-11.15
5,300.00	0.34	245.68	5,298.43	10.56	13.32	10.43	0.30	-0.15	-37.92
5,400.00	0.54	225.70	5,398.43	10.11	12.71	9.99	0.25	0.20	-19.98
5,500.00	0.51	216.14	5,498.42	9.42	12.11	9.30	0.09	-0.03	-9.56
5,600.00	0.44	218.99	5,598.42	8.76	11.61	8.65	0.07	-0.07	2.85
5,700.00	0.55	214.67	5,698.42	8.07	11.09	7.96	0.12	0.11	-4.32
5,800.00	0.52	224.21	5,798.41	7.35	10.50	7.25	0.09	-0.03	9.54
5,900.00	0.48	207.15	5,898.41	6.65	10.00	6.55	0.15	-0.04	-17.06
5,944.00	0.61	173.24	5,942.41	6.25	9.94	6.16	0.78	0.30	-77.07
6,118.00	0.70	170.80	6,116.40	4.28	10.22	4.19	0.05	0.05	-1.40
6,213.00	0.80	180.20	6,211.39	3.05	10.31	2.95	0.17	0.11	9.89
6,308.00	0.70	190.40	6,306.38	1.81	10.20	1.72	0.18	-0.11	10.74
6,403.00	1.10	187.90	6,401.37	0.34	9.97	0.25	0.42	0.42	-2.63
6,497.00	1.10	183.30	6,495.35	-1.46	9.80	-1.55	0.09	0.00	-4.89
6,591.00	1.10	184.00	6,589.33	-3.26	9.68	-3.35	0.01	0.00	0.74
6,686.00	1.00	189.90	6,684.32	-4.98	9.47	-5.07	0.15	-0.11	6.21
6,781.00	1.30	181.60	6,779.30	-6.88	9.30	-6.96	0.36	0.32	-8.74
6,876.00	1.40	185.90	6,874.27	-9.11	9.15	-9.19	0.15	0.11	4.53
6,971.00	1.10	181.40	6,969.25	-11.17	9.01	-11.26	0.33	-0.32	-4.74
7,066.00	1.20	171.50	7,064.23	-13.07	9.14	-13.16	0.23	0.11	-10.42
7,161.00	1.30	168.30	7,159.21	-15.11	9.50	-15.20	0.13	0.11	-3.37
7,255.00	1.40	160.60	7,253.18	-17.24	10.10	-17.33	0.22	0.11	-8.19
7,350.00	1.40	160.40	7,348.15	-19.42	10.87	-19.53	0.01	0.00	-0.21
7,445.00	1.30	146.00	7,443.13	-21.41	11.87	-21.52	0.37	-0.11	-15.16
7,540.00	1.20	141.00	7,538.10	-23.08	13.09	-23.20	0.16	-0.11	-5.26
7,635.00	1.10	140.10	7,633.09	-24.55	14.30	-24.68	0.11	-0.11	-0.95
7,730.00	0.10	218.70	7,728.08	-25.31	14.84	-25.45	1.14	-1.05	82.74
7,825.00	0.10	350.90	7,823.08	-25.30	14.77	-25.43	0.19	0.00	139.16
7,919.00	0.30	12.00	7,917.08	-24.98	14.81	-25.11	0.22	0.21	22.45
8,014.00	0.50	39.60	8,012.08	-24.41	15.13	-24.55	0.29	0.21	29.05
8,109.00	0.80	45.70	8,107.07	-23.63	15.87	-23.78	0.32	0.32	6.42
8,204.00	0.90	49.20	8,202.06	-22.68	16.91	-22.84	0.12	0.11	3.68
8,298.00	1.10	50.30	8,296.05	-21.62	18.16	-21.79	0.21	0.21	1.17
8,393.00	1.40	51.50	8,391.02	-20.32	19.77	-20.50	0.32	0.32	1.26
8,487.00	1.30	28.60	8,485.00	-18.66	21.18	-18.86	0.58	-0.11	-24.36
8,583.00	1.00	356.80	8,580.98	-16.87	21.65	-17.08	0.72	-0.31	-33.13
8,678.00	0.70	0.10	8,675.97	-15.46	21.61	-15.67	0.32	-0.32	3.47
8,773.00	1.10	6.70	8,770.96	-13.98	21.71	-14.18	0.43	0.42	6.95
8,867.00	1.60	1.50	8,864.93	-11.77	21.85	-11.98	0.55	0.53	-5.53
8,961.00	1.90	354.30	8,958.89	-8.91	21.73	-9.11	0.40	0.32	-7.66
9,056.00	1.90	336.80	9,053.83	-5.89	20.96	-6.09	0.61	0.00	-18.42
9,151.00	2.00	336.10	9,148.78	-2.93	19.66	-3.11	0.11	0.11	-0.74
9,246.00	0.40	286.20	9,243.76	-1.32	18.67	-1.50	1.86	-1.68	-52.53

Survey Report

Company:	Chisholm Energy Holdings, LLC	Local Co-ordinate Reference:	Well Antler 17 State 2 BS 3H
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Site:	Sec 17-T22S-R35E	MD Reference:	KB=26 @ 3579.50ft (Latshaw 17)
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9,340.00	0.50	232.70	9,337.75	-1.48	18.03	-1.65	0.44	0.11	-56.92
9,435.00	1.00	255.80	9,432.75	-1.93	16.90	-2.09	0.60	0.53	24.32
9,530.00	1.20	251.30	9,527.73	-2.46	15.15	-2.60	0.23	0.21	-4.74
9,625.00	1.20	255.60	9,622.71	-3.02	13.25	-3.15	0.09	0.00	4.53
9,780.00	7.60	264.30	9,777.17	-4.44	1.46	-4.46	4.14	4.13	5.61
9,813.00	11.60	267.80	9,809.70	-4.79	-4.02	-4.75	12.24	12.12	10.61
9,871.00	13.50	271.20	9,866.32	-4.87	-16.62	-4.71	3.51	3.28	5.86
9,934.00	20.50	270.20	9,926.53	-4.68	-35.03	-4.35	11.12	11.11	-1.59
9,964.00	24.00	270.50	9,954.29	-4.61	-46.39	-4.17	11.67	11.67	1.00
10,011.00	29.00	269.10	9,996.34	-4.70	-67.35	-4.07	10.72	10.64	-2.98
10,036.00	31.80	269.70	10,017.90	-4.83	-80.00	-4.08	11.27	11.20	2.40
10,059.00	34.20	269.90	10,037.19	-4.88	-92.52	-4.00	10.45	10.43	0.87
10,091.00	37.80	270.40	10,063.07	-4.82	-111.33	-3.77	11.29	11.25	1.56
10,124.00	42.00	270.00	10,088.38	-4.75	-132.49	-3.50	12.75	12.73	-1.21
10,154.00	45.00	272.10	10,110.14	-4.36	-153.13	-2.92	11.10	10.00	7.00
10,187.00	47.90	277.20	10,132.88	-2.40	-176.95	-0.73	14.23	8.79	15.45
10,219.00	50.50	281.90	10,153.80	1.64	-200.82	3.53	13.77	8.13	14.69
10,248.00	52.40	286.70	10,171.88	7.25	-222.78	9.35	14.51	6.55	16.55
10,282.00	54.30	291.60	10,192.18	16.20	-248.53	18.55	12.84	5.59	14.41
10,314.00	56.00	296.10	10,210.47	26.83	-272.54	29.39	12.70	5.31	14.06
10,344.00	56.80	300.60	10,227.08	38.69	-294.52	41.47	12.77	2.67	15.00
10,378.00	55.80	303.50	10,245.94	53.70	-318.49	56.69	7.68	-2.94	8.53
10,408.00	56.30	307.50	10,262.70	68.14	-338.74	71.33	11.18	1.67	13.33
10,439.00	57.60	312.30	10,279.62	84.81	-358.66	88.19	13.64	4.19	15.48
10,486.00	59.70	319.10	10,304.09	113.53	-386.65	117.17	13.14	4.47	14.47
10,535.00	62.70	325.10	10,327.71	147.40	-412.98	151.29	12.35	6.12	12.24
10,582.00	67.20	329.70	10,347.61	183.27	-435.88	187.37	13.05	9.57	9.79
10,630.00	71.30	334.70	10,364.62	222.96	-456.78	227.26	12.95	8.54	10.42
10,677.00	75.30	340.30	10,378.14	264.53	-473.97	268.99	14.23	8.51	11.91
10,723.00	78.80	345.10	10,388.45	307.32	-487.28	311.90	12.70	7.61	10.43
10,770.00	81.70	349.50	10,396.41	352.49	-497.45	357.17	11.10	6.17	9.36
10,818.00	85.00	353.60	10,401.97	399.64	-504.45	404.37	10.92	6.88	8.54
10,865.00	86.80	356.70	10,405.33	446.34	-508.41	451.11	7.61	3.83	6.60
10,914.00	89.00	358.10	10,407.13	495.25	-510.63	500.04	5.32	4.49	2.86
10,945.00	90.30	358.30	10,407.32	526.24	-511.61	531.03	4.24	4.19	0.65
11,009.00	90.80	358.80	10,406.70	590.21	-513.23	595.02	1.10	0.78	0.78
11,104.00	90.00	358.70	10,406.04	685.19	-515.30	690.01	0.85	-0.84	-0.11
11,198.00	92.30	359.60	10,404.15	779.15	-516.69	783.99	2.63	2.45	0.96
11,293.00	91.90	359.80	10,400.67	874.09	-517.19	878.92	0.47	-0.42	0.21
11,388.00	90.90	0.80	10,398.35	969.05	-516.69	973.88	1.49	-1.05	1.05
11,483.00	90.10	1.00	10,397.52	1,064.04	-515.20	1,068.85	0.87	-0.84	0.21
11,578.00	90.40	359.50	10,397.11	1,159.03	-514.79	1,163.83	1.61	0.32	-1.58
11,673.00	89.40	0.10	10,397.27	1,254.03	-515.12	1,258.83	1.23	-1.05	0.63
11,767.00	90.70	359.60	10,397.19	1,348.03	-515.37	1,352.82	1.48	1.38	-0.53

Survey Report

Company:	Chisholm Energy Holdings, LLC	Local Co-ordinate Reference:	Well Antler 17 State 2 BS 3H
Project:	Lea County, NM (NAD83) Sec 17-T22S-R35E Antler 17 State 2 BS 3H	TVD Reference:	KB=26 @ 3579.50ft (Latshaw 17)
Wellbore:	Wellbore #2	MD Reference:	KB=26 @ 3579.50ft (Latshaw 17)
Design:	Wellbore #2	North Reference:	Grid
		Survey Calculation Method:	Minimum Curvature
		Database:	EDM 5000.1

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Doglog Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,863.00	92.40	359.50	10,394.59	1,443.99	-516.12	1,448.79	1.77	1.77	-0.10
11,957.00	91.10	359.40	10,391.72	1,537.94	-517.02	1,542.74	1.39	-1.38	-0.11
12,052.00	93.30	359.00	10,388.08	1,632.85	-518.35	1,637.66	2.35	2.32	-0.42
12,148.00	92.60	359.40	10,383.14	1,728.71	-519.68	1,733.53	0.84	-0.73	0.42
12,243.00	93.60	357.90	10,378.00	1,823.54	-521.92	1,828.38	1.90	1.05	-1.58
12,338.00	92.30	358.80	10,373.11	1,918.38	-524.65	1,923.23	1.66	-1.37	0.95
12,431.00	93.50	357.90	10,368.40	2,011.21	-527.32	2,016.10	1.61	1.29	-0.97
12,525.00	92.80	358.50	10,363.24	2,105.03	-530.27	2,109.93	0.98	-0.74	0.64
12,620.00	92.60	357.80	10,358.76	2,199.87	-533.34	2,204.80	0.77	-0.21	-0.74
12,716.00	92.30	358.10	10,354.66	2,295.72	-536.77	2,300.68	0.44	-0.31	0.31
12,810.00	91.40	358.20	10,351.63	2,389.62	-539.80	2,394.60	0.96	-0.96	0.11
12,906.00	90.90	358.20	10,349.70	2,485.55	-542.81	2,490.56	0.52	-0.52	0.00
13,001.00	92.10	0.00	10,347.21	2,580.50	-544.31	2,585.52	2.28	1.26	1.89
13,096.00	90.90	0.70	10,344.73	2,675.47	-543.73	2,680.47	1.46	-1.26	0.74
13,191.00	90.10	0.50	10,343.90	2,770.46	-542.73	2,775.45	0.87	-0.84	-0.21
13,286.00	91.70	0.50	10,342.40	2,865.44	-541.90	2,870.42	1.68	1.68	0.00
13,380.00	90.70	0.30	10,340.44	2,959.42	-541.25	2,964.39	1.08	-1.06	-0.21
13,475.00	92.50	0.80	10,337.78	3,054.37	-540.33	3,059.33	1.97	1.89	0.53
13,568.00	92.00	1.40	10,334.13	3,147.28	-538.55	3,152.22	0.84	-0.54	0.65
13,663.00	90.30	0.60	10,332.23	3,242.24	-536.89	3,247.16	1.98	-1.79	-0.84
13,759.00	94.60	359.10	10,328.12	3,338.13	-537.14	3,343.04	4.74	4.48	-1.56
13,853.00	94.20	359.30	10,320.91	3,431.84	-538.45	3,436.77	0.48	-0.43	0.21
13,948.00	93.90	359.20	10,314.20	3,526.60	-539.69	3,531.53	0.33	-0.32	-0.11
14,043.00	92.90	359.10	10,308.57	3,621.42	-541.10	3,626.36	1.06	-1.05	-0.11
14,138.00	92.30	359.40	10,304.26	3,716.31	-542.34	3,721.26	0.71	-0.63	0.32
14,232.00	92.20	359.40	10,300.57	3,810.23	-543.32	3,815.19	0.11	-0.11	0.00
14,328.00	91.80	359.70	10,297.22	3,906.17	-544.08	3,911.13	0.52	-0.42	0.31
14,424.00	94.60	359.70	10,291.86	4,002.01	-544.58	4,006.97	2.92	2.92	0.00
14,519.00	88.50	359.60	10,289.29	4,096.93	-545.16	4,101.89	6.42	-6.42	-0.11
14,614.00	87.30	359.10	10,292.77	4,191.86	-546.24	4,196.82	1.37	-1.26	-0.53
14,709.00	87.30	359.10	10,297.25	4,286.74	-547.73	4,291.71	0.00	0.00	0.00
14,805.00	87.50	359.40	10,301.60	4,382.63	-548.98	4,387.61	0.38	0.21	0.31
14,899.00	89.10	359.50	10,304.39	4,476.59	-549.88	4,481.57	1.71	1.70	0.11
14,993.00	88.00	359.00	10,306.77	4,570.55	-551.11	4,575.54	1.29	-1.17	-0.53
15,089.00	88.90	359.00	10,309.37	4,666.50	-552.79	4,671.50	0.94	0.94	0.00
15,183.00	89.30	359.40	10,310.84	4,760.47	-554.10	4,765.49	0.60	0.43	0.43
Last IDS MWD Survey									
15,237.00	89.30	359.40	10,311.50	4,814.47	-554.67	4,819.48	0.00	0.00	0.00
Projection to bottom hole location									

Survey Report

Company:	Chisholm Energy Holdings, LLC	Local Co-ordinate Reference:	Well Antler 17 State 2 BS 3H
Project:	Lea County, NM (NAD83)	TVD Reference:	KB=26 @ 3579.50ft (Latshaw 17)
Site:	Sec 17-T22S-R35E	MD Reference:	KB=26 @ 3579.50ft (Latshaw 17)
Well:	Antler 17 State 2 BS 3H	North Reference:	Grid
Wellbore:	Wellbore #2	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #2	Database:	EDM 5000.1

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
15,183.00	10,310.84	4,760.47	-554.10	Last IDS MWD Survey
15,237.00	10,311.50	4,814.47	-554.67	Projection to bottom hole location

Checked By: _____ Approved By: _____ Date: _____