

HOBBS OCD

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30-025-44142

Chisholm Energy Holdings, LLC

Lea County, NM (NAD83)

Sec 17-T22S-R35E

Antler 17 State 1BS 2H

Wellbore #2

Design: Wellbore #2

Standard Survey Report

27 March, 2018



INTEGRITY
DIRECTIONAL

Survey Report



Company:	Chisholm Energy Holdings, LLC	Local Co-ordinate Reference:	Well Antler 17 State 1BS 2H
Project:	Lea County, NM (NAD83)	TVD Reference:	KB=26 @ 3578.20ft (Latshaw 17)
Site:	Sec 17-T22S-R35E	MD Reference:	KB=26 @ 3578.20ft (Latshaw 17)
Well:	Antler 17 State 1BS 2H	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		

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

Well	Antler 17 State 1BS 2H, WA			
Well Position	+N/-S	0.00 ft	Northing:	505,023.40 usft
	+E/-W	0.00 ft	Easting:	831,226.21 usft
Position Uncertainty	0.00 ft		Wellhead Elevation:	0.00 ft
			Ground Level:	3,552.20 ft

Wellbore	Wellbore #2				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	3/20/2018	6.80	60.25	48,151

Design	Wellbore #2				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	12,816.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	0.00	

Survey Program	Date	3/27/2018			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
109.00	12,816.00	IDS MWD Surveys (Wellbore #1)	MWD	MWD - Standard	
12,912.00	14,550.00	IDS MWD Surveys ST01 (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
109.00	0.40	157.50	109.00	-0.35	0.15	-0.35	0.37	0.37	0.00
212.00	0.30	197.00	212.00	-0.94	0.20	-0.94	0.25	-0.10	38.35
301.00	0.40	231.10	301.00	-1.36	-0.11	-1.36	0.25	0.11	38.31
389.00	0.60	260.50	388.99	-1.63	-0.80	-1.63	0.36	0.23	33.41
476.00	0.90	270.50	475.98	-1.70	-1.93	-1.70	0.37	0.34	11.49
565.00	1.20	274.90	564.97	-1.61	-3.56	-1.61	0.35	0.34	4.94
656.00	1.30	295.30	655.95	-1.09	-5.44	-1.09	0.50	0.11	22.42
716.00	1.40	302.00	715.93	-0.41	-6.68	-0.41	0.31	0.17	11.17
807.00	1.80	315.00	806.90	1.19	-8.63	1.19	0.59	0.44	14.29

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898.00	0.50	6.50	897.88	2.59	-9.60	2.59	1.69	-1.43	56.59
990.00	1.30	91.60	989.87	2.96	-8.51	2.96	1.47	0.87	92.50
1,083.00	1.60	98.90	1,082.84	2.73	-6.17	2.73	0.38	0.32	7.85
1,174.00	2.10	92.10	1,173.79	2.48	-3.25	2.48	0.60	0.55	-7.47
1,267.00	2.20	71.90	1,266.73	2.97	0.15	2.97	0.82	0.11	-21.72
1,360.00	1.50	43.20	1,359.68	4.41	2.68	4.41	1.23	-0.75	-30.86
1,454.00	1.50	33.00	1,453.65	6.34	4.19	6.34	0.28	0.00	-10.85
1,548.00	1.10	33.20	1,547.62	8.13	5.36	8.13	0.43	-0.43	0.21
1,641.00	1.00	21.20	1,640.61	9.63	6.14	9.63	0.26	-0.11	-12.90
1,734.00	0.80	26.30	1,733.60	10.97	6.72	10.97	0.23	-0.22	5.48
1,827.00	0.90	29.50	1,826.59	12.19	7.37	12.19	0.12	0.11	3.44
1,907.00	1.10	30.00	1,906.57	13.40	8.06	13.40	0.25	0.25	0.63
2,018.00	1.90	26.90	2,017.54	15.96	9.42	15.96	0.72	0.72	-2.79
2,112.00	1.50	29.70	2,111.49	18.42	10.74	18.42	0.43	-0.43	2.98
2,207.00	0.70	239.90	2,206.48	19.21	10.85	19.21	2.25	-0.84	-157.68
2,300.00	2.00	227.60	2,299.46	17.83	9.16	17.83	1.42	1.40	-13.23
2,394.00	0.70	222.00	2,393.43	16.30	7.57	16.30	1.39	-1.38	-5.96
2,488.00	0.60	204.60	2,487.42	15.42	6.98	15.42	0.23	-0.11	-18.51
2,582.00	0.90	194.00	2,581.42	14.26	6.60	14.26	0.35	0.32	-11.28
2,675.00	1.10	192.80	2,674.40	12.68	6.22	12.68	0.22	0.22	-1.29
2,769.00	1.40	201.20	2,768.38	10.73	5.61	10.73	0.37	0.32	8.94
2,863.00	1.90	218.60	2,862.34	8.44	4.22	8.44	0.75	0.53	18.51
2,956.00	1.10	236.00	2,955.31	6.74	2.52	6.74	0.98	-0.86	18.71
3,049.00	0.90	238.70	3,048.29	5.86	1.15	5.86	0.22	-0.22	2.90
3,144.00	0.70	194.60	3,143.28	4.91	0.37	4.91	0.66	-0.21	-46.42
3,239.00	1.00	193.20	3,238.27	3.54	0.03	3.54	0.32	0.32	-1.47
3,332.00	1.10	183.50	3,331.26	1.86	-0.21	1.86	0.22	0.11	-10.43
3,427.00	0.90	189.10	3,426.24	0.21	-0.38	0.21	0.23	-0.21	5.89
3,522.00	0.60	136.20	3,521.24	-0.88	-0.15	-0.88	0.76	-0.32	-55.68
3,615.00	0.90	113.40	3,614.23	-1.52	0.85	-1.52	0.45	0.32	-24.52
3,711.00	1.50	99.60	3,710.21	-2.03	2.78	-2.03	0.69	0.63	-14.38
3,806.00	2.10	98.10	3,805.16	-2.49	5.73	-2.49	0.63	0.63	-1.58
3,901.00	2.00	110.20	3,900.10	-3.30	9.01	-3.30	0.47	-0.11	12.74
3,995.00	2.10	113.40	3,994.04	-4.55	12.13	-4.55	0.16	0.11	3.40
4,091.00	1.90	108.80	4,089.98	-5.77	15.25	-5.77	0.27	-0.21	-4.79
4,185.00	2.10	99.60	4,183.92	-6.56	18.43	-6.56	0.40	0.21	-9.79
4,279.00	1.40	102.50	4,277.88	-7.09	21.25	-7.09	0.75	-0.74	3.09
4,372.00	1.70	142.90	4,370.85	-8.44	23.19	-8.44	1.19	0.32	43.44
4,467.00	2.40	203.50	4,465.80	-11.39	23.24	-11.39	2.27	0.74	63.79
4,562.00	2.50	201.20	4,560.71	-15.14	21.70	-15.14	0.15	0.11	-2.42
4,657.00	2.80	198.80	4,655.61	-19.27	20.20	-19.27	0.34	0.32	-2.53
4,846.00	2.30	189.50	4,844.42	-27.38	18.09	-27.38	0.34	-0.26	-4.92
4,941.00	2.10	182.80	4,939.35	-31.00	17.69	-31.00	0.34	-0.21	-7.05

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5,035.00	2.10	181.90	5,033.29	-34.44	17.55	-34.44	0.04	0.00	-0.96
5,225.00	2.20	166.40	5,223.16	-41.46	18.29	-41.46	0.31	0.05	-8.16
5,300.00	2.11	161.91	5,298.10	-44.18	19.06	-44.18	0.26	-0.12	-5.99
5,400.00	2.37	163.01	5,398.03	-47.90	20.23	-47.90	0.26	0.26	1.10
5,500.00	2.67	159.71	5,497.93	-52.07	21.65	-52.07	0.33	0.30	-3.30
5,600.00	2.88	154.91	5,597.81	-56.53	23.52	-56.53	0.31	0.21	-4.80
5,700.00	2.97	150.99	5,697.68	-61.07	25.84	-61.07	0.22	0.09	-3.92
5,800.00	2.94	153.29	5,797.55	-65.62	28.25	-65.62	0.12	-0.03	2.30
5,900.00	2.97	152.63	5,897.42	-70.21	30.59	-70.21	0.05	0.03	-0.66
6,094.00	3.90	156.40	6,091.07	-80.72	35.55	-80.72	0.49	0.48	1.94
6,189.00	2.30	140.90	6,185.93	-85.16	38.04	-85.16	1.89	-1.68	-16.32
6,284.00	1.20	115.50	6,280.88	-87.07	40.14	-87.07	1.39	-1.16	-26.74
6,379.00	0.70	87.20	6,375.87	-87.47	41.62	-87.47	0.71	-0.53	-29.79
6,473.00	0.90	71.50	6,469.86	-87.21	42.89	-87.21	0.31	0.21	-16.70
6,568.00	0.80	91.60	6,564.85	-86.99	44.26	-86.99	0.33	-0.11	21.16
6,757.00	0.90	90.50	6,753.83	-87.04	47.07	-87.04	0.05	0.05	-0.58
6,852.00	1.00	79.60	6,848.82	-86.90	48.63	-86.90	0.22	0.11	-11.47
7,042.00	0.80	84.40	7,038.79	-86.47	51.58	-86.47	0.11	-0.11	2.53
7,232.00	1.10	103.70	7,228.77	-86.77	54.67	-86.77	0.23	0.16	10.16
7,421.00	0.50	77.50	7,417.75	-87.02	57.24	-87.02	0.36	-0.32	-13.86
7,611.00	0.70	71.50	7,607.74	-86.47	59.15	-86.47	0.11	0.11	-3.16
7,801.00	0.90	59.60	7,797.72	-85.35	61.54	-85.35	0.14	0.11	-6.26
7,991.00	1.30	47.60	7,987.68	-83.14	64.42	-83.14	0.24	0.21	-6.32
8,180.00	1.60	53.90	8,176.62	-80.14	68.13	-80.14	0.18	0.16	3.33
8,369.00	2.10	49.00	8,365.52	-76.32	72.88	-76.32	0.28	0.26	-2.59
8,559.00	1.80	37.90	8,555.41	-71.68	77.34	-71.68	0.25	-0.16	-5.84
8,749.00	2.10	347.10	8,745.32	-65.93	78.39	-65.93	0.89	0.16	-26.74
8,844.00	3.00	1.40	8,840.22	-61.75	78.06	-61.75	1.15	0.95	15.05
8,926.00	2.40	18.80	8,922.13	-57.98	78.67	-57.98	1.23	-0.73	21.22
8,973.00	6.80	93.00	8,969.00	-57.19	81.77	-57.19	13.97	9.36	157.87
9,020.00	14.20	99.20	9,015.18	-58.26	90.25	-58.26	15.90	15.74	13.19
9,067.00	18.90	101.40	9,060.22	-60.69	103.41	-60.69	10.09	10.00	4.68
9,115.00	26.10	99.60	9,104.54	-63.99	121.47	-63.99	15.07	15.00	-3.75
9,162.00	34.00	99.30	9,145.19	-67.84	144.66	-67.84	16.81	16.81	-0.64
9,210.00	37.50	98.90	9,184.14	-72.27	172.35	-72.27	7.31	7.29	-0.83
9,257.00	40.70	93.10	9,220.62	-75.32	201.81	-75.32	10.33	6.81	-12.34
9,304.00	43.50	85.30	9,255.51	-74.82	233.26	-74.82	12.61	5.96	-16.60
9,351.00	46.30	81.00	9,288.81	-70.83	266.17	-70.83	8.78	5.96	-9.15
9,399.00	48.20	77.10	9,321.40	-64.12	300.76	-64.12	7.16	3.96	-8.13
9,447.00	50.60	72.90	9,352.64	-54.67	335.94	-54.67	8.31	5.00	-8.75
9,496.00	54.30	68.10	9,382.51	-41.67	372.52	-41.67	10.83	7.55	-9.80
9,543.00	56.90	63.80	9,409.07	-25.86	407.91	-25.86	9.36	5.53	-9.15
9,592.00	57.90	59.70	9,435.48	-6.32	444.26	-6.32	7.34	2.04	-8.37

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9,639.00	59.30	55.00	9,459.97	15.33	478.01	15.33	9.04	2.98	-10.00
9,687.00	60.30	50.30	9,484.13	40.49	510.97	40.49	8.71	2.08	-9.79
9,718.00	60.50	46.30	9,499.45	58.42	531.09	58.42	11.24	0.65	-12.90
9,750.00	61.10	41.40	9,515.07	78.55	550.43	78.55	13.50	1.88	-15.31
9,782.00	62.20	37.90	9,530.26	100.23	568.39	100.23	10.22	3.44	-10.94
9,813.00	63.40	35.60	9,544.44	122.33	584.89	122.33	7.65	3.87	-7.42
9,844.00	65.30	32.50	9,557.86	145.48	600.52	145.48	10.90	6.13	-10.00
9,876.00	67.30	29.40	9,570.72	170.61	615.59	170.61	10.85	6.25	-9.69
9,908.00	70.20	25.70	9,582.32	197.04	629.37	197.04	14.08	9.06	-11.56
9,940.00	72.60	24.40	9,592.53	224.52	642.20	224.52	8.43	7.50	-4.06
9,970.00	74.10	22.90	9,601.12	250.84	653.73	250.84	6.92	5.00	-5.00
10,002.00	76.30	19.00	9,609.30	279.73	664.79	279.73	13.64	6.88	-12.19
10,034.00	78.70	15.30	9,616.23	309.58	673.99	309.58	13.55	7.50	-11.56
10,065.00	81.20	12.80	9,621.64	339.18	681.40	339.18	11.32	8.06	-8.06
10,096.00	82.20	11.30	9,626.11	369.18	687.80	369.18	5.77	3.23	-4.84
10,128.00	83.90	9.90	9,629.99	400.40	693.64	400.40	6.86	5.31	-4.38
10,160.00	84.70	8.10	9,633.16	431.85	698.62	431.85	6.13	2.50	-5.63
10,191.00	83.50	5.60	9,636.35	462.46	702.30	462.46	8.91	-3.87	-8.06
10,223.00	82.90	3.30	9,640.14	494.14	704.77	494.14	7.38	-1.88	-7.19
10,255.00	84.80	0.70	9,643.57	525.93	705.88	525.93	10.03	5.94	-8.13
10,346.00	86.30	1.30	9,650.63	616.64	707.46	616.64	1.77	1.65	0.66
10,441.00	88.00	2.00	9,655.35	711.48	710.19	711.48	1.93	1.79	0.74
10,536.00	89.40	0.40	9,657.51	806.43	712.18	806.43	2.24	1.47	-1.68
10,631.00	88.80	0.80	9,659.00	901.41	713.18	901.41	0.76	-0.63	0.42
10,726.00	90.90	0.00	9,659.25	996.40	713.84	996.40	2.37	2.21	-0.84
10,820.00	91.70	0.80	9,657.12	1,090.38	714.50	1,090.38	1.20	0.85	0.85
10,915.00	91.50	1.00	9,654.46	1,185.33	715.99	1,185.33	0.30	-0.21	0.21
11,010.00	91.10	1.20	9,652.31	1,280.29	717.81	1,280.29	0.47	-0.42	0.21
11,105.00	92.20	1.00	9,649.57	1,375.23	719.63	1,375.23	1.18	1.16	-0.21
11,200.00	92.10	0.50	9,646.01	1,470.15	720.88	1,470.15	0.54	-0.11	-0.53
11,295.00	92.60	0.10	9,642.11	1,565.07	721.37	1,565.07	0.67	0.53	-0.42
11,391.00	92.00	0.40	9,638.26	1,660.99	721.79	1,660.99	0.70	-0.63	0.31
11,485.00	93.70	359.80	9,633.59	1,754.87	721.96	1,754.87	1.92	1.81	-0.64
11,581.00	94.60	359.30	9,626.64	1,850.62	721.20	1,850.62	1.07	0.94	-0.52
11,676.00	94.10	359.70	9,619.43	1,945.34	720.38	1,945.34	0.67	-0.53	0.42
11,771.00	94.20	0.10	9,612.56	2,040.09	720.21	2,040.09	0.43	0.11	0.42
11,866.00	93.30	0.00	9,606.35	2,134.88	720.29	2,134.88	0.95	-0.95	-0.11
11,961.00	90.50	358.90	9,603.20	2,229.82	719.38	2,229.82	3.17	-2.95	-1.16
12,054.00	90.40	359.40	9,602.47	2,322.80	718.00	2,322.80	0.55	-0.11	0.54
12,149.00	91.50	359.60	9,600.89	2,417.78	717.17	2,417.78	1.18	1.16	0.21
12,244.00	91.60	359.60	9,598.32	2,512.75	716.51	2,512.75	0.11	0.11	0.00
12,342.00	92.10	0.00	9,595.16	2,610.70	716.17	2,610.70	0.65	0.51	0.41
12,434.00	91.90	359.00	9,591.95	2,702.63	715.37	2,702.63	1.11	-0.22	-1.09
12,531.00	93.10	357.90	9,587.72	2,799.50	712.75	2,799.50	1.68	1.24	-1.13

Survey Report



Company:	Chisholm Energy Holdings, LLC	Local Co-ordinate Reference:	Well Antler 17 State 1BS 2H
Project:	Lea County, NM (NAD83)	TVD Reference:	KB=26 @ 3578.20ft (Latshaw 17)
Site:	Sec 17-T22S-R35E	MD Reference:	KB=26 @ 3578.20ft (Latshaw 17)
Well:	Antler 17 State 1BS 2H	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)
12,626.00	91.40	358.20	9,583.99	2,894.37	709.52	2,894.37	1.82	-1.79	0.32
12,721.00	90.90	358.10	9,582.08	2,989.30	706.45	2,989.30	0.54	-0.53	-0.11
12,816.00	91.10	359.10	9,580.42	3,084.26	704.13	3,084.26	1.07	0.21	1.05
12,912.00	91.60	358.50	9,578.16	3,180.21	702.12	3,180.21	0.81	0.52	-0.63
13,006.00	90.70	358.70	9,576.27	3,274.16	699.82	3,274.16	0.98	-0.96	0.21
13,101.00	92.60	0.10	9,573.54	3,369.11	698.83	3,369.11	2.48	2.00	1.47
13,196.00	94.70	0.80	9,567.49	3,463.91	699.57	3,463.91	2.33	2.21	0.74
13,291.00	94.70	1.00	9,559.71	3,558.58	701.06	3,558.58	0.21	0.00	0.21
13,387.00	92.60	1.00	9,553.59	3,654.36	702.73	3,654.36	2.19	-2.19	0.00
13,480.00	92.80	1.60	9,549.21	3,747.24	704.84	3,747.24	0.68	0.22	0.65
13,574.00	92.40	1.40	9,544.95	3,841.11	707.30	3,841.11	0.48	-0.43	-0.21
13,669.00	91.40	1.50	9,541.80	3,936.02	709.70	3,936.02	1.06	-1.05	0.11
13,765.00	92.70	1.10	9,538.37	4,031.93	711.88	4,031.93	1.42	1.35	-0.42
13,859.00	92.40	1.50	9,534.18	4,125.82	714.01	4,125.82	0.53	-0.32	0.43
13,954.00	92.60	0.60	9,530.04	4,220.71	715.75	4,220.71	0.97	0.21	-0.95
14,050.00	91.20	0.30	9,526.86	4,316.65	716.50	4,316.65	1.49	-1.46	-0.31
14,145.00	92.50	359.30	9,523.79	4,411.60	716.17	4,411.60	1.73	1.37	-1.05
14,240.00	93.70	359.30	9,518.65	4,506.45	715.01	4,506.45	1.26	1.26	0.00
14,335.00	93.30	359.30	9,512.85	4,601.27	713.85	4,601.27	0.42	-0.42	0.00
14,429.00	93.00	359.30	9,507.69	4,695.12	712.70	4,695.12	0.32	-0.32	0.00
14,496.00	92.80	359.40	9,504.30	4,762.03	711.95	4,762.03	0.33	-0.30	0.15
Last IDS MWD Survey									
14,550.00	92.80	359.40	9,501.66	4,815.96	711.38	4,815.96	0.00	0.00	0.00
Projection to TD - PBHL Antler 17 State 1BS 2H									

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
14,496.00	9,504.30	4,762.03	711.95	Last IDS MWD Survey
14,550.00	9,501.66	4,815.96	711.38	Projection to TD

Checked By: _____ Approved By: _____ Date: _____