

NM OIL CONSERVATION
ARTESIA DISTRICT

AUG 03 2018

RECEIVED

Chisholm Energy Holdings, LLC

Eddy County, NM (NAD83)

Sec 23-T23S-R26E

McCord Enterprises 23 WCA 3H

30-015-44284

Wellbore #1

Design: Wellbore #1

Standard Survey Report

14 February, 2018

Provide Signature Page for
Directional Survey



Survey Report



Company: Chisholm Energy Holdings, LLC
Project: Eddy County, NM (NAD83)
Site: Sec 23-T23S-R26E
Well: McCord Enterprises 23 WCA 3H
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference: Well McCord Enterprises 23 WCA 3H
TVD Reference: KB=26 @ 3295.00ft (Latshaw 7)
MD Reference: KB=26 @ 3295.00ft (Latshaw 7)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1

Project	Eddy 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 23-T23S-R26E			
Site Position:		Northing:	466,602.9000 usft	Latitude:	32.282751
From:	Map	Easting:	560,219.5000 usft	Longitude:	-104.272233
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence:	0.03 °

Well	McCord Enterprises 23 WCA 3H, WA					
Well Position	+N/-S	0.00 ft	Northing:	466,733.0000 usft	Latitude:	32.283106
	+E/-W	0.00 ft	Easting:	561,668.1000 usft	Longitude:	-104.267546
Position Uncertainty		0.00 ft	Wellhead Elevation:	0.00 ft	Ground Level:	3,269.00 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	12/11/2017	7.43	60.00	48,012

Design	Wellbore #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00		0.00

Survey Program	Date 2/14/2018			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
150.00	13,530.00	IDS MWD Surveys (Wellbore #1)	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
150.00	0.90	117.40	149.99	-0.54	1.05	-0.54	0.60	0.60	0.00
First IDS MWD Survey									
243.00	0.60	266.30	242.99	-0.91	1.21	-0.91	1.56	-0.32	160.11
363.00	0.50	58.40	362.99	-0.68	1.03	-0.68	0.89	-0.08	126.75
517.00	0.50	87.30	516.98	-0.29	2.27	-0.29	0.16	0.00	18.77
604.00	0.70	312.80	603.98	0.09	2.26	0.09	1.28	0.23	-154.60
697.00	0.60	106.30	696.98	0.34	2.31	0.34	1.36	-0.11	165.05
787.00	2.10	70.20	786.95	0.76	4.31	0.76	1.84	1.67	-40.11
878.00	3.30	74.80	877.85	2.01	8.41	2.01	1.34	1.32	5.05
969.00	2.40	84.30	968.74	2.89	12.83	2.89	1.11	-0.99	10.44

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1,061.00	1.20	62.60	1,060.69	3.52	15.61	3.52	1.48	-1.30	-23.59
1,151.00	0.90	2.30	1,150.68	4.66	16.47	4.66	1.21	-0.33	-67.00
1,245.00	0.40	16.10	1,244.67	5.72	16.59	5.72	0.55	-0.53	14.68
1,339.00	1.30	86.00	1,338.66	6.11	17.75	6.11	1.30	0.96	74.36
1,433.00	0.40	288.90	1,432.65	6.29	18.50	6.29	1.78	-0.96	-167.13
1,528.00	0.70	268.12	1,527.65	6.38	17.61	6.38	0.37	0.32	-21.87
1,623.00	1.06	234.02	1,622.64	5.84	16.32	5.84	0.65	0.38	-35.89
1,718.00	1.23	231.38	1,717.62	4.69	14.81	4.69	0.19	0.18	-2.78
1,812.00	0.97	224.00	1,811.60	3.49	13.47	3.49	0.31	-0.28	-7.85
1,930.00	1.23	229.62	1,929.58	1.95	11.81	1.95	0.24	0.22	4.76
1,984.00	1.49	208.88	1,983.57	0.96	11.03	0.96	1.02	0.48	-38.41
2,078.00	1.67	231.73	2,077.53	-0.96	9.36	-0.96	0.69	0.19	24.31
2,172.00	1.32	243.86	2,171.50	-2.29	7.31	-2.29	0.50	-0.37	12.90
2,266.00	1.41	241.75	2,265.47	-3.31	5.32	-3.31	0.11	0.10	-2.24
2,360.00	1.49	220.83	2,359.44	-4.78	3.51	-4.78	0.57	0.09	-22.26
2,455.00	1.49	234.89	2,454.41	-6.43	1.69	-6.43	0.38	0.00	14.80
2,549.00	0.44	147.88	2,548.40	-7.44	0.88	-7.44	1.63	-1.12	-92.56
2,643.00	0.18	131.89	2,642.40	-7.84	1.18	-7.84	0.29	-0.28	-17.01
2,738.00	0.18	107.80	2,737.40	-7.99	1.44	-7.99	0.08	0.00	-25.36
2,833.00	0.70	155.44	2,832.40	-8.56	1.82	-8.56	0.63	0.55	50.15
2,927.00	0.62	154.75	2,926.39	-9.54	2.27	-9.54	0.09	-0.09	-0.73
3,021.00	0.35	174.25	3,020.39	-10.29	2.52	-10.29	0.33	-0.29	20.74
3,115.00	0.44	130.66	3,114.38	-10.81	2.82	-10.81	0.32	0.10	-46.37
3,209.00	0.35	145.77	3,208.38	-11.28	3.26	-11.28	0.15	-0.10	16.07
3,303.00	0.70	158.96	3,302.38	-12.05	3.63	-12.05	0.39	0.37	14.03
3,397.00	0.88	178.29	3,396.37	-13.31	3.85	-13.31	0.34	0.19	20.56
3,491.00	0.62	203.25	3,490.36	-14.50	3.67	-14.50	0.44	-0.28	26.55
3,586.00	0.35	228.57	3,585.36	-15.16	3.25	-15.16	0.36	-0.28	26.65
3,680.00	0.62	159.13	3,679.35	-15.83	3.22	-15.83	0.63	0.29	-73.87
3,775.00	0.09	142.43	3,774.35	-16.37	3.45	-16.37	0.56	-0.56	-17.58
3,868.00	0.62	147.00	3,867.35	-16.85	3.77	-16.85	0.57	0.57	4.91
3,963.00	0.70	117.47	3,962.34	-17.55	4.56	-17.55	0.36	0.08	-31.08
4,057.00	0.70	108.86	4,056.34	-18.00	5.61	-18.00	0.11	0.00	-9.16
4,151.00	0.53	153.86	4,150.33	-18.57	6.35	-18.57	0.53	-0.18	47.87
4,245.00	0.53	264.95	4,244.33	-19.00	6.11	-19.00	0.93	0.00	118.18
4,339.00	0.26	254.41	4,338.33	-19.10	5.47	-19.10	0.30	-0.29	-11.21
4,433.00	1.49	306.44	4,432.32	-18.43	4.28	-18.43	1.43	1.31	55.35
4,528.00	1.23	299.58	4,527.29	-17.19	2.40	-17.19	0.32	-0.27	-7.22
4,621.00	1.23	324.89	4,620.27	-15.88	0.96	-15.88	0.58	0.00	27.22
4,716.00	1.49	310.13	4,715.24	-14.25	-0.57	-14.25	0.46	0.27	-15.54
4,810.00	0.97	325.42	4,809.22	-12.81	-1.96	-12.81	0.65	-0.55	16.27
4,905.00	1.06	335.44	4,904.21	-11.35	-2.78	-11.35	0.21	0.09	10.55
4,998.00	0.88	322.96	4,997.19	-10.00	-3.57	-10.00	0.30	-0.19	-13.42

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5,092.00	0.70	348.80	5,091.18	-8.86	-4.11	-8.86	0.42	-0.19	27.49
5,187.00	0.35	301.52	5,186.18	-8.14	-4.47	-8.14	0.56	-0.37	-49.77
5,281.00	0.62	44.17	5,280.18	-7.62	-4.36	-7.62	0.83	0.29	109.20
5,375.00	0.70	14.99	5,374.17	-6.70	-3.86	-6.70	0.36	0.09	-31.04
5,470.00	0.35	59.64	5,469.17	-6.00	-3.46	-6.00	0.54	-0.37	47.00
5,563.00	1.06	54.02	5,562.16	-5.35	-2.52	-5.35	0.77	0.76	-6.04
5,658.00	0.70	26.42	5,657.15	-4.31	-1.55	-4.31	0.58	-0.38	-29.05
5,752.00	0.44	12.18	5,751.14	-3.44	-1.22	-3.44	0.31	-0.28	-15.15
5,847.00	0.53	98.66	5,846.14	-3.15	-0.71	-3.15	0.70	0.09	91.03
5,941.00	1.14	75.28	5,940.13	-2.98	0.63	-2.98	0.73	0.65	-24.87
6,035.00	1.14	81.79	6,034.11	-2.61	2.46	-2.61	0.14	0.00	6.93
6,130.00	0.79	14.11	6,129.10	-1.84	3.55	-1.84	1.17	-0.37	-71.24
6,224.00	1.32	304.85	6,223.09	-0.59	2.82	-0.59	1.36	0.56	-73.68
6,318.00	2.20	291.67	6,317.04	0.69	0.26	0.69	1.02	0.94	-14.02
6,412.00	2.46	288.33	6,410.97	1.99	-3.34	1.99	0.31	0.28	-3.55
6,506.00	0.70	283.23	6,504.93	2.76	-5.81	2.76	1.88	-1.87	-5.43
6,600.00	0.79	258.10	6,598.92	2.76	-7.00	2.76	0.36	0.10	-26.73
6,695.00	0.26	111.14	6,693.92	2.54	-7.44	2.54	1.07	-0.56	-154.70
6,789.00	0.62	114.48	6,787.91	2.26	-6.78	2.26	0.38	0.38	3.55
6,883.00	1.06	154.03	6,881.90	1.26	-5.94	1.26	0.75	0.47	42.07
6,977.00	0.70	168.45	6,975.89	-0.08	-5.44	-0.08	0.45	-0.38	15.34
7,071.00	0.97	238.06	7,069.89	-1.06	-6.00	-1.06	1.04	0.29	74.05
7,166.00	1.14	260.56	7,164.87	-1.64	-7.62	-1.64	0.47	0.18	23.68
7,259.00	1.32	266.89	7,257.85	-1.85	-9.60	-1.85	0.24	0.19	6.81
7,353.00	0.79	262.49	7,351.83	-2.00	-11.32	-2.00	0.57	-0.56	-4.68
7,447.00	0.62	332.45	7,445.83	-1.63	-12.20	-1.63	0.87	-0.18	74.43
7,541.00	1.49	44.52	7,539.81	-0.31	-11.58	-0.31	1.52	0.93	76.67
7,635.00	0.44	41.01	7,633.80	0.84	-10.49	0.84	1.12	-1.12	-3.73
7,729.00	1.32	186.03	7,727.79	0.03	-10.36	0.03	1.81	0.94	154.28
7,822.00	3.17	194.64	7,820.72	-3.52	-11.12	-3.52	2.02	1.99	9.26
7,916.00	1.93	178.64	7,914.62	-7.62	-11.74	-7.62	1.51	-1.32	-17.02
8,014.00	1.58	179.70	8,012.58	-10.62	-11.70	-10.62	0.36	-0.36	1.08
8,105.00	1.23	193.59	8,103.55	-12.82	-11.92	-12.82	0.53	-0.38	15.26
8,245.00	1.41	141.73	8,243.52	-15.64	-11.21	-15.64	0.83	0.13	-37.04
8,311.00	1.10	110.00	8,309.50	-16.49	-10.11	-16.49	1.13	-0.47	-48.08
8,329.00	1.70	24.50	8,327.50	-16.31	-9.84	-16.31	10.84	3.33	-475.00
8,391.00	7.40	357.60	8,389.28	-11.48	-9.62	-11.48	9.57	9.19	-43.39
8,406.00	8.50	357.50	8,404.14	-9.41	-9.71	-9.41	7.33	7.33	-0.67
8,454.00	12.90	359.00	8,451.29	-0.50	-9.96	-0.50	9.18	9.17	3.13
8,485.00	15.10	2.30	8,481.37	7.00	-9.86	7.00	7.55	7.10	10.65
8,501.00	16.80	2.20	8,496.75	11.39	-9.68	11.39	10.63	10.63	-0.63
8,532.00	19.20	4.10	8,526.23	20.95	-9.15	20.95	7.97	7.74	6.13
8,564.00	21.40	1.10	8,556.24	32.04	-8.66	32.04	7.60	6.88	-9.38

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8,595.00	24.40	359.80	8,584.80	44.10	-8.57	44.10	9.81	9.68	-4.19
8,627.00	26.50	359.80	8,613.69	57.85	-8.62	57.85	6.56	6.56	0.00
8,674.00	30.70	359.80	8,654.95	80.34	-8.70	80.34	8.94	8.94	0.00
8,705.00	34.90	0.90	8,681.00	97.13	-8.59	97.13	13.68	13.55	3.55
8,737.00	39.60	1.20	8,706.46	116.49	-8.23	116.49	14.70	14.69	0.94
8,768.00	43.60	1.00	8,729.64	137.07	-7.84	137.07	12.91	12.90	-0.65
8,784.00	45.50	0.30	8,741.04	148.29	-7.71	148.29	12.27	11.88	-4.38
8,815.00	51.10	0.80	8,761.66	171.42	-7.48	171.42	18.10	18.06	1.61
8,847.00	56.70	0.80	8,780.50	197.27	-7.12	197.27	17.50	17.50	0.00
8,878.00	62.00	0.70	8,796.30	223.92	-6.77	223.92	17.10	17.10	-0.32
8,909.00	67.80	1.30	8,809.45	251.98	-6.28	251.98	18.79	18.71	1.94
8,940.00	73.90	1.80	8,819.61	281.24	-5.49	281.24	19.74	19.68	1.61
8,968.00	78.70	1.50	8,826.24	308.42	-4.71	308.42	17.17	17.14	-1.07
8,995.00	83.40	2.70	8,830.44	335.07	-3.73	335.07	17.95	17.41	4.44
9,027.00	86.70	2.70	8,833.20	366.91	-2.22	366.91	10.31	10.31	0.00
9,089.00	87.40	3.40	8,836.39	428.74	1.07	428.74	1.60	1.13	1.13
9,184.00	88.70	3.70	8,839.62	523.50	6.95	523.50	1.40	1.37	0.32
9,278.00	89.20	3.50	8,841.35	617.30	12.85	617.30	0.57	0.53	-0.21
9,372.00	90.10	4.00	8,841.92	711.09	19.00	711.09	1.10	0.96	0.53
9,465.00	90.40	3.40	8,841.51	803.90	25.00	803.90	0.72	0.32	-0.65
9,559.00	91.70	1.80	8,839.79	897.78	29.26	897.78	2.19	1.38	-1.70
9,653.00	92.20	0.50	8,836.59	991.71	31.15	991.71	1.48	0.53	-1.38
9,747.00	91.20	357.90	8,833.80	1,085.65	29.84	1,085.65	2.96	-1.06	-2.77
9,841.00	91.10	358.50	8,831.92	1,179.58	26.88	1,179.58	0.65	-0.11	0.64
9,934.00	90.80	359.00	8,830.38	1,272.55	24.86	1,272.55	0.63	-0.32	0.54
10,028.00	89.70	358.30	8,829.97	1,366.52	22.64	1,366.52	1.39	-1.17	-0.74
10,123.00	89.20	358.40	8,830.88	1,461.47	19.91	1,461.47	0.54	-0.53	0.11
10,217.00	89.10	358.90	8,832.27	1,555.44	17.69	1,555.44	0.54	-0.11	0.53
10,311.00	88.20	357.00	8,834.49	1,649.34	14.33	1,649.34	2.24	-0.96	-2.02
10,405.00	88.00	358.20	8,837.60	1,743.21	10.40	1,743.21	1.29	-0.21	1.28
10,499.00	87.20	357.10	8,841.54	1,837.04	6.55	1,837.04	1.45	-0.85	-1.17
10,593.00	87.30	357.10	8,846.05	1,930.82	1.80	1,930.82	0.11	0.11	0.00
10,688.00	88.10	359.40	8,849.86	2,025.69	-1.10	2,025.69	2.56	0.84	2.42
10,782.00	88.00	1.00	8,853.06	2,119.63	-0.78	2,119.63	1.70	-0.11	1.70
10,876.00	89.10	1.90	8,855.44	2,213.57	1.60	2,213.57	1.51	1.17	0.96
10,970.00	90.20	1.80	8,856.01	2,307.52	4.64	2,307.52	1.18	1.17	-0.11
11,064.00	90.30	2.30	8,855.60	2,401.45	8.00	2,401.45	0.54	0.11	0.53
11,159.00	90.30	2.00	8,855.11	2,496.39	11.56	2,496.39	0.32	0.00	-0.32
11,253.00	89.80	3.10	8,855.02	2,590.29	15.75	2,590.29	1.29	-0.53	1.17
11,348.00	89.40	3.20	8,855.69	2,685.14	20.97	2,685.14	0.43	-0.42	0.11
11,442.00	89.80	2.50	8,856.34	2,779.03	25.64	2,779.03	0.86	0.43	-0.74
11,536.00	89.70	1.20	8,856.75	2,872.97	28.67	2,872.97	1.39	-0.11	-1.38
11,630.00	90.50	0.50	8,856.59	2,966.96	30.07	2,966.96	1.13	0.85	-0.74
11,725.00	91.20	359.60	8,855.18	3,061.95	30.15	3,061.95	1.20	0.74	-0.95

Survey Report



Company: Chisholm Energy Holdings, LLC
Project: Eddy County, NM (NAD83)
Site: Sec 23-T23S-R26E
Well: McCord Enterprises 23 WCA 3H
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference: Well McCord Enterprises 23 WCA 3H
TVD Reference: KB=26 @ 3295.00ft (Latshaw 7)
MD Reference: KB=26 @ 3295.00ft (Latshaw 7)
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)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,819.00	89.20	359.00	8,854.85	3,155.94	29.00	3,155.94	2.22	-2.13	-0.64
11,913.00	88.40	358.20	8,856.82	3,249.89	26.71	3,249.89	1.20	-0.85	-0.85
12,007.00	88.70	358.70	8,859.20	3,343.82	24.17	3,343.82	0.62	0.32	0.53
12,102.00	88.40	359.90	8,861.60	3,438.78	23.01	3,438.78	1.30	-0.32	1.26
12,195.00	88.60	359.00	8,864.04	3,531.75	22.11	3,531.75	0.99	0.22	-0.97
12,289.00	89.00	359.50	8,866.01	3,625.72	20.88	3,625.72	0.68	0.43	0.53
12,384.00	89.60	0.20	8,867.17	3,720.71	20.63	3,720.71	0.97	0.63	0.74
12,478.00	89.80	358.60	8,867.66	3,814.70	19.65	3,814.70	1.72	0.21	-1.70
12,572.00	89.80	357.90	8,867.99	3,908.65	16.78	3,908.65	0.74	0.00	-0.74
12,667.00	90.30	357.50	8,867.90	4,003.58	12.97	4,003.58	0.67	0.53	-0.42
12,760.00	89.90	358.10	8,867.74	4,096.51	9.40	4,096.51	0.78	-0.43	0.65
12,855.00	89.30	358.80	8,868.41	4,191.47	6.83	4,191.47	0.97	-0.63	0.74
12,949.00	90.10	359.40	8,868.90	4,285.45	5.35	4,285.45	1.06	0.85	0.64
13,043.00	89.50	359.80	8,869.23	4,379.45	4.69	4,379.45	0.77	-0.64	0.43
13,137.00	90.20	359.50	8,869.47	4,473.45	4.12	4,473.45	0.81	0.74	-0.32
13,231.00	89.70	358.40	8,869.55	4,567.43	2.40	4,567.43	1.29	-0.53	-1.17
13,325.00	88.90	357.60	8,870.70	4,661.36	-0.88	4,661.36	1.20	-0.85	-0.85
13,478.00	88.80	358.60	8,873.77	4,814.25	-5.95	4,814.25	0.66	-0.07	0.65
Last IDS MWD Survey									
13,530.00	88.80	358.60	8,874.86	4,866.22	-7.22	4,866.22	0.00	0.00	0.00
Projection to TD - PBHL McCord Enterprises 23 WCA 3H									

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
150.00	149.99	-0.54	1.05	First IDS MWD Survey
13,478.00	8,873.77	4,814.25	-5.95	Last IDS MWD Survey
13,530.00	8,874.86	4,866.22	-7.22	Projection to TD

Checked By: _____ Approved By: _____ Date: _____