



INTEGRITY
DIRECTIONAL

NM OIL CONSERVATION
ARTESIA DISTRICT

JUN 08 2018

RECEIVED

Chisholm Energy Operating, LLC

30.015-44283

Latshaw 7

*Survey does not go to total
depth. Please re-submit*

McCord Enterprises 23 WCA 4H (NM17478CL)

2017-12-29 to 2018-01-23

Eddy, New Mexico (32.28, -104.27)

Job Type
Directional



INTEGRITY
DIRECTIONAL

Survey Reports

McCord Enterprises 23 WCA 4H (NM17478CL)

2017-12-29 to 2018-01-23

Eddy, New Mexico (32.28, -104.27)



Job Number
 NM17478CL
Operator
 Chisholm Energy Operating, LLC
Start Date
 2017-12-29
Well Name
 McCord Enterprises 23 WCA 4H
Play
 Permian
State
 NM
Lat
 32.283107
Lon
 -104.267351

Rig
 Latchaw 7
Legal Well Name | AFE
 McCord Enterprises 23 WCA 4H
Well Path Name
 Curve and Lateral - As Drilled
County
 Eddy
Company Man
 Eddy
Rig Floor Elevation (ft)
 3294.00
VS Plane AZI
 0.0

Surveys

MD (ft)	INC (°)	AZI (°)	TVD (ft)	North (ft)	East (ft)	VS (ft)	Clos Dist (ft)	Clos Azi (°)	Dogleg (°/100 ft)	B Rate (°/100 ft)	T Rate (°/100 ft)	Bit to Sensor (ft)	Calc TF (°)
8108.00	1.06	171.35	8107.12	-9.14	14.63	-9.14			N/A	N/A	N/A	58.00	N/A
Comments: Tie In / Pilot Hole Surveys													
8183.00	8.40	122.30	8181.83	-12.76	19.37	-12.76	23.20	123.37	10.33	9.79	-65.40	49.00	-54.94
8214.00	12.70	118.50	8212.29	-15.60	24.28	-15.60	28.86	122.71	14.04	13.87	-12.26	49.00	-11.07
8245.00	15.50	112.00	8242.36	-18.77	31.12	-18.77	36.34	121.10	10.36	9.03	-20.97	49.00	-32.67
8277.00	17.70	103.00	8273.03	-21.47	39.83	-21.47	45.25	118.33	10.56	6.87	-28.13	49.00	-53.82
8308.00	19.80	93.80	8302.39	-22.88	49.66	-22.88	54.68	114.74	11.68	6.77	-29.68	49.00	-59.04
8340.00	22.80	89.20	8332.20	-23.15	61.27	-23.15	65.50	110.70	10.72	9.37	-14.37	49.00	-31.28
8371.00	25.10	87.90	8360.53	-22.83	73.85	-22.83	77.30	107.18	7.61	7.42	-4.19	49.00	-13.52
8402.00	27.60	87.00	8388.31	-22.21	87.59	-22.21	90.37	104.23	8.17	8.06	-2.90	49.00	-9.48
8434.00	30.50	87.70	8416.28	-21.50	103.11	-21.50	105.33	101.78	9.12	9.06	2.19	49.00	6.99
8465.00	33.30	86.10	8442.59	-20.60	119.47	-20.60	121.23	99.78	9.43	9.03	-5.16	49.00	-17.48
8497.00	36.10	86.70	8468.90	-19.46	137.65	-19.46	139.02	98.05	8.81	8.75	1.87	49.00	7.20
8528.00	40.30	85.20	8493.26	-18.10	156.76	-18.10	157.81	96.58	13.87	13.55	-4.84	49.00	-13.05
8559.00	44.10	84.70	8516.22	-16.26	177.50	-16.26	178.25	95.23	12.31	12.26	-1.61	49.00	-5.24
8590.00	47.00	86.00	8537.93	-14.47	199.56	-14.47	200.08	94.15	9.82	9.35	4.19	49.00	18.20
8622.00	50.50	86.80	8559.02	-12.97	223.56	-12.97	223.94	93.32	11.10	10.94	2.50	49.00	10.02
8653.00	54.20	86.00	8577.95	-11.42	248.06	-11.42	248.32	92.64	12.11	11.94	-2.58	49.00	-9.96
8685.00	57.60	84.50	8595.89	-9.22	274.46	-9.22	274.61	91.92	11.31	10.63	-4.69	49.00	-20.49
8716.00	61.10	81.00	8611.70	-5.84	300.90	-5.84	300.96	91.11	14.89	11.29	-11.29	49.00	-41.61
8748.00	61.70	76.60	8627.02	-0.38	328.45	-0.38	328.45	90.07	12.22	1.87	-13.75	49.00	-82.23
8779.00	62.50	72.10	8641.53	7.01	354.82	7.01	354.89	88.87	13.08	2.58	-14.52	49.00	-79.69
8812.00	63.80	67.90	8656.44	17.08	382.48	17.08	382.86	87.44	12.02	3.94	-12.73	49.00	-71.82
8843.00	64.70	64.20	8669.91	28.41	407.99	28.41	408.97	86.02	11.13	2.90	-11.94	49.00	-75.70
8875.00	65.10	63.80	8683.49	41.12	434.03	41.12	435.97	84.59	1.69	1.25	-1.25	49.00	-42.25
8906.00	66.20	60.90	8696.27	54.23	459.04	54.23	462.23	83.26	9.23	3.55	-9.35	49.00	-68.00
8938.00	67.00	56.60	8708.99	69.46	484.14	69.46	489.10	81.84	12.58	2.50	-13.44	49.00	-79.40
8969.00	67.40	53.50	8721.00	85.83	507.56	85.83	514.76	80.40	9.31	1.29	-10.00	49.00	-82.63
9001.00	67.30	50.00	8733.33	104.11	530.75	104.11	540.86	78.90	10.10	-0.31	-10.94	49.00	-92.45
9032.00	68.00	45.80	8745.12	123.33	552.01	123.33	565.62	77.41	12.73	2.26	-13.55	49.00	-80.59
9064.00	69.70	43.00	8756.67	144.65	572.89	144.65	590.87	75.83	9.74	5.31	-8.75	49.00	-57.45
9095.00	71.70	39.10	8766.92	166.71	592.09	166.71	615.11	74.27	13.51	6.45	-12.58	49.00	-62.14
9127.00	73.30	35.30	8776.54	191.02	610.53	191.02	639.72	72.63	12.38	5.00	-11.87	49.00	-66.76
9158.00	74.30	32.20	8785.19	215.77	627.07	215.77	663.15	71.01	10.13	3.23	-10.00	49.00	-71.87
9189.00	75.60	28.70	8793.24	241.57	642.23	241.57	686.16	69.39	11.68	4.19	-11.29	49.00	-69.42
9220.00	77.40	25.30	8800.48	268.42	655.91	268.42	708.71	67.74	12.14	5.81	-10.97	49.00	-61.84
9252.00	78.80	22.60	8807.08	297.04	668.62	297.04	731.63	66.05	9.34	4.37	-8.44	49.00	-62.36
9283.00	79.90	18.60	8812.81	325.55	679.34	325.55	753.31	64.40	13.17	3.55	-12.90	49.00	-74.74
9314.00	81.00	15.00	8817.96	354.81	688.17	354.81	774.25	62.73	11.99	3.55	-11.61	49.00	-73.09
9346.00	82.50	11.70	8822.55	385.62	695.48	385.62	795.23	60.99	11.23	4.69	-10.31	49.00	-65.57
9377.00	83.90	7.70	8826.22	415.95	700.66	415.95	814.83	59.30	13.58	4.52	-12.90	49.00	-70.83
9409.00	85.50	3.40	8829.18	447.66	703.74	447.66	834.06	57.54	14.28	5.00	-13.44	49.00	-69.72
Comments: Landed Curve @ PTB 9458', INC:89.5, AZM:357.7, 1.99' Above and 21.12' Right of Plan # 2													
9431.00	87.10	0.90	8830.60	469.59	704.56	469.59	846.72	56.32	13.47	7.27	-11.36	52.00	-57.41
9463.00	88.00	359.70	8831.97	501.56	704.73	501.56	864.99	54.56	4.68	2.81	-3.75	52.00	-53.13
9557.00	88.10	0.10	8835.17	595.51	704.57	595.51	922.52	49.80	0.44	0.11	0.43	52.00	75.96
9651.00	88.10	0.70	8838.28	689.45	705.22	689.45	986.25	45.65	0.64	0.00	0.64	52.00	90.01
9745.00	88.60	359.80	8840.99	783.41	705.63	783.41	1054.35	42.01	1.09	0.53	-0.96	52.00	-60.95
9839.00	89.20	358.50	8842.79	877.38	704.24	877.38	1125.06	38.75	1.52	0.64	-1.38	52.00	-65.23
9933.00	89.30	358.80	8844.03	971.35	702.02	971.35	1198.48	35.86	0.34	0.11	0.32	52.00	71.57
10027.00	88.80	358.50	8845.58	1065.31	699.81	1065.31	1274.61	33.30	0.62	-0.53	-0.32	52.00	-149.04
10122.00	90.20	358.90	8846.41	1160.28	697.66	1160.28	1353.87	31.02	1.53	1.47	0.42	52.00	15.95
10216.00	89.80	358.70	8846.41	1254.26	695.69	1254.26	1434.27	29.02	0.48	-0.43	-0.21	52.00	-153.43
10312.00	90.00	359.10	8846.58	1350.24	693.84	1350.24	1518.08	27.20	0.47	0.21	0.42	52.00	63.44
10406.00	89.50	359.50	8846.99	1444.23	692.70	1444.23	1601.76	25.62	0.68	-0.53	0.43	52.00	141.34
10500.00	89.70	358.90	8847.65	1538.22	691.38	1538.22	1686.45	24.20	0.67	0.21	-0.64	52.00	-71.57
10595.00	89.60	358.60	8848.23	1633.19	689.31	1633.19	1772.70	22.88	0.33	-0.11	-0.32	52.00	-108.44
10689.00	89.00	358.70	8849.38	1727.16	687.10	1727.16	1858.81	21.69	0.65	-0.64	0.11	52.00	170.54
10783.00	89.90	0.60	8850.28	1821.15	686.52	1821.15	1946.25	20.66	2.24	0.96	2.02	52.00	64.66
10877.00	89.50	0.80	8850.77	1915.14	687.67	1915.14	2034.86	19.75	0.48	-0.43	0.21	52.00	153.44
10971.00	89.40	1.30	8851.67	2009.12	689.39	2009.12	2124.11	18.94	0.54	-0.11	0.53	52.00	101.31
11065.00	89.00	2.20	8852.98	2103.07	692.26	2103.07	2214.07	18.22	1.05	-0.43	0.96	52.00	113.97

11159.00	88.00	0.40	8855.45	2197.01	694.40	2197.01	2304.13	17.54	2.19	-1.06	-1.91	52.00	-119.08
11254.00	88.70	359.80	8858.18	2291.96	694.56	2291.96	2394.89	16.86	0.97	0.74	-0.63	52.00	-40.60
11347.00	89.40	0.30	8859.72	2384.95	694.64	2384.95	2484.05	16.24	0.92	0.75	0.54	52.00	35.54
11442.00	90.00	359.50	8860.22	2479.95	694.48	2479.95	2575.35	15.64	1.05	0.63	-0.84	52.00	-53.13
11536.00	89.80	0.00	8860.38	2573.95	694.07	2573.95	2665.88	15.09	0.57	-0.21	0.53	52.00	111.80
11630.00	89.30	0.10	8861.12	2667.94	694.15	2667.94	2756.77	14.58	0.54	-0.53	0.11	52.00	168.69
11724.00	90.10	0.00	8861.61	2761.94	694.23	2761.94	2847.86	14.11	0.86	0.85	-0.11	52.00	-7.13
11818.00	90.20	0.30	8861.37	2855.94	694.48	2855.94	2939.17	13.67	0.34	0.11	0.32	52.00	71.56
11912.00	89.80	0.30	8861.37	2949.94	694.97	2949.94	3030.70	13.26	0.43	-0.43	0.00	52.00	180.00
12007.00	89.80	0.90	8861.70	3044.93	695.96	3044.93	3123.46	12.87	0.63	0.00	0.63	52.00	90.00
12101.00	89.40	1.20	8862.36	3138.91	697.69	3138.91	3215.52	12.53	0.53	-0.43	0.32	52.00	143.13
12195.00	89.80	0.00	8863.01	3232.91	698.67	3232.91	3307.54	12.19	1.35	0.43	-1.28	52.00	-71.57
12289.00	90.00	1.10	8863.18	3326.90	699.57	3326.90	3399.66	11.88	1.19	0.21	1.17	52.00	79.70
12384.00	88.70	0.40	8864.25	3421.88	700.82	3421.88	3492.91	11.57	1.55	-1.37	-0.74	52.00	-151.70
12478.00	88.00	359.70	8866.96	3515.84	700.90	3515.84	3585.03	11.27	1.05	-0.74	-0.74	52.00	-135.02
12572.00	89.00	359.00	8869.42	3609.80	699.83	3609.80	3677.01	10.97	1.30	1.06	-0.74	52.00	-34.99
12667.00	89.00	359.80	8871.08	3704.78	698.84	3704.78	3770.12	10.68	0.84	0.00	0.84	52.00	90.01
12761.00	88.70	359.60	8872.97	3798.76	698.35	3798.76	3862.42	10.42	0.38	-0.32	-0.21	52.00	-146.32
12855.00	88.50	359.50	8875.26	3892.73	697.61	3892.73	3954.74	10.16	0.24	-0.21	-0.11	52.00	-153.44
12949.00	88.50	0.10	8877.72	3986.70	697.28	3986.70	4047.22	9.92	0.64	0.00	0.64	52.00	90.01
13043.00	88.30	0.50	8880.35	4080.66	697.77	4080.66	4139.89	9.70	0.48	-0.21	0.43	52.00	116.58
13137.00	88.20	0.30	8883.22	4174.61	698.43	4174.61	4232.63	9.50	0.24	-0.11	-0.21	52.00	-116.58
13231.00	88.00	1.00	8886.34	4268.55	699.49	4268.55	4325.49	9.31	0.77	-0.21	0.74	52.00	105.97
13326.00	88.30	359.70	8889.40	4363.50	700.07	4363.50	4419.30	9.11	1.40	0.32	-1.37	52.00	-77.02
13420.00	88.50	358.90	8892.03	4457.46	698.92	4457.46	4511.92	8.91	0.88	0.21	-0.85	52.00	-75.97
13514.00	89.10	359.20	8894.00	4551.42	697.37	4551.42	4604.54	8.71	0.71	0.64	0.32	52.00	26.56
13607.00	88.90	0.30	8895.62	4644.41	696.96	4644.41	4696.41	8.53	1.20	-0.22	1.18	52.00	100.32
13702.00	88.10	359.80	8898.11	4739.37	697.04	4739.37	4790.36	8.37	0.99	-0.84	-0.53	52.00	-148.01
13790.00	88.20	0.40	8900.95	4827.33	697.20	4827.33	4877.41	8.22	0.69	0.11	0.68	52.00	80.54