



30-015-43253



# Survey Report

NM OIL CONSERVATION  
ARTESIA DISTRICT

OCT 03 2019

Service Company: WELLBENDERS

Location: EDDY COUNTY

Well: BIG EDDY UNIT 29 FEDERAL 1  
SWD

Rig: CACTUS 118

API or UWI: 42-329-00000

30-015-43253

Job Number: NMDG 2019-1058

RECEIVED

State: NM

Operating Company: XTO

County: EDDY

Magnetic Declination: 6.83

Country: USA

Proposed Azimuth: 0.00

Comment

North Reference: GRID

Latitude: 32.445716

Longitude: -104.013306

## Tie-In Data

MD	Inclination	Azimuth	TVD	NS	EW
0.00	0.00	0.00	0.00	0.00	0.00

## Survey Data

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
176.00	1.00	315.10	175.99	1.09	-1.08	315.10	1.54	1.09	0.57
343.00	0.70	339.00	342.97	3.07	-2.48	321.11	3.95	3.07	0.27
512.00	0.40	340.60	511.97	4.59	-3.04	326.46	5.51	4.59	0.18
605.00	0.60	30.10	604.96	5.32	-2.91	331.34	6.06	5.32	0.49
661.00	1.00	13.90	660.96	6.05	-2.64	336.39	6.60	6.05	0.81
755.00	1.00	42.00	754.94	7.45	-1.90	345.72	7.69	7.45	0.52
847.00	1.30	36.80	846.92	8.89	-0.74	355.27	8.92	8.89	0.34
941.00	1.10	32.50	940.90	10.50	0.39	2.12	10.51	10.50	0.23
1035.00	1.30	31.40	1034.88	12.17	1.43	6.69	12.26	12.17	0.21
1129.00	1.80	39.40	1128.85	14.22	2.92	11.61	14.52	14.22	0.58
1223.00	1.50	37.50	1222.81	16.34	4.61	15.75	16.98	16.34	0.32
1316.00	1.60	37.90	1315.77	18.33	6.15	18.54	19.33	18.33	0.11
1410.00	1.70	45.30	1409.74	20.35	7.94	21.33	21.84	20.35	0.25
1504.00	1.90	46.20	1503.69	22.41	10.06	24.18	24.56	22.41	0.21
1598.00	1.60	50.10	1597.65	24.33	12.19	26.62	27.21	24.33	0.34
1692.00	2.10	43.00	1691.60	26.43	14.37	28.54	30.08	26.43	0.58

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
1785.00	2.20	38.80	1784.53	29.06	16.65	29.81	33.50	29.06	0.20
1879.00	2.20	29.40	1878.46	32.04	18.67	30.23	37.08	32.04	0.38
1973.00	2.30	26.90	1972.39	35.30	20.41	30.04	40.77	35.30	0.15
2067.00	2.60	27.00	2066.30	38.88	22.23	29.76	44.78	38.88	0.32
2160.00	2.50	28.80	2159.21	42.54	24.16	29.60	48.92	42.54	0.14
2254.00	2.70	25.50	2253.11	46.33	26.10	29.40	53.18	46.33	0.27
2348.00	3.00	28.10	2347.00	50.50	28.22	29.19	57.85	50.50	0.35
2442.00	2.40	32.80	2440.89	54.32	30.44	29.27	62.27	54.32	0.68
2536.00	2.60	309.30	2534.83	57.33	29.86	27.51	64.64	57.33	3.54
2630.00	3.00	29.10	2628.75	60.83	29.40	25.80	67.56	60.83	3.83
2724.00	2.80	27.40	2722.63	65.02	31.66	25.96	72.31	65.02	0.23
2795.00	3.00	26.90	2793.54	68.21	33.30	26.02	75.91	68.21	0.28
2909.00	3.20	27.60	2907.37	73.69	36.12	26.11	82.07	73.69	0.18
3003.00	3.20	36.40	3001.22	78.13	38.89	26.46	87.27	78.13	0.52
3097.00	3.00	35.00	3095.09	82.26	41.86	26.97	92.30	82.26	0.23
3190.00	2.40	38.60	3187.98	85.77	44.47	27.41	96.62	85.77	0.67
3284.00	2.20	39.70	3281.91	88.70	46.85	27.84	100.31	88.70	0.22
3378.00	2.00	36.30	3375.84	91.41	48.97	28.18	103.70	91.41	0.25
3472.00	1.90	33.50	3469.79	94.03	50.80	28.38	106.88	94.03	0.15
3566.00	2.20	35.70	3563.73	96.79	52.72	28.57	110.22	96.79	0.33
3659.00	2.10	40.00	3656.66	99.55	54.85	28.86	113.66	99.55	0.20
3753.00	2.00	32.20	3750.60	102.26	56.84	29.07	116.99	102.26	0.32
3847.00	1.90	30.00	3844.55	104.99	58.49	29.12	120.19	104.99	0.13
3940.00	1.70	33.20	3937.50	107.48	60.02	29.18	123.10	107.48	0.24
4034.00	1.60	32.50	4031.47	109.76	61.48	29.26	125.81	109.76	0.11
4128.00	1.80	26.70	4125.42	112.18	62.85	29.26	128.59	112.18	0.28
4222.00	1.70	36.30	4219.38	114.63	64.34	29.31	131.45	114.63	0.33
4316.00	1.40	29.30	4313.35	116.75	65.73	29.38	133.98	116.75	0.38
4410.00	1.40	23.10	4407.32	118.81	66.74	29.33	136.27	118.81	0.16
4503.00	1.20	28.60	4500.29	120.71	67.65	29.27	138.37	120.71	0.25
4597.00	1.10	28.50	4594.27	122.37	68.55	29.26	140.26	122.37	0.11
4691.00	1.00	16.80	4688.26	123.94	69.22	29.18	141.96	123.94	0.25
4785.00	1.30	16.90	4782.24	125.75	69.77	29.02	143.81	125.75	0.32
4879.00	1.10	18.00	4876.22	127.63	70.36	28.87	145.74	127.63	0.21
4973.00	1.10	14.30	4970.20	129.36	70.86	28.71	147.50	129.36	0.08
5067.00	1.20	22.70	5064.18	131.14	71.46	28.59	149.35	131.14	0.21
5161.00	1.20	15.80	5158.16	133.00	72.11	28.47	151.29	133.00	0.15

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
5255.00	0.90	19.50	5252.15	134.64	72.62	28.34	152.98	134.64	0.33
5348.00	1.10	18.50	5345.13	136.18	73.15	28.24	154.58	136.18	0.22
5442.00	1.00	19.10	5439.12	137.81	73.71	28.14	156.28	137.81	0.11
5536.00	0.90	1.60	5533.10	139.32	74.00	27.97	157.75	139.32	0.32
5630.00	0.80	4.20	5627.09	140.71	74.06	27.76	159.01	140.71	0.11
5724.00	0.90	15.50	5721.08	142.08	74.31	27.61	160.34	142.08	0.21
5817.00	1.00	0.40	5814.07	143.59	74.51	27.42	161.77	143.59	0.29
5911.00	0.80	4.40	5908.06	145.07	74.57	27.20	163.11	145.07	0.22
6005.00	0.90	4.70	6002.05	146.46	74.68	27.02	164.40	146.46	0.11
6099.00	0.90	5.20	6096.04	147.93	74.80	26.82	165.77	147.93	0.01
6193.00	0.80	1.80	6190.03	149.32	74.89	26.64	167.05	149.32	0.12
6286.00	0.90	4.00	6283.02	150.70	74.96	26.45	168.31	150.70	0.11
6380.00	0.80	358.80	6377.01	152.09	75.00	26.25	169.58	152.09	0.13
6474.00	0.90	350.70	6471.00	153.47	74.87	26.00	170.76	153.47	0.17
6568.00	0.70	341.60	6564.99	154.75	74.57	25.73	171.78	154.75	0.25
6662.00	0.70	335.10	6658.98	155.81	74.14	25.45	172.56	155.81	0.08
6755.00	0.60	339.50	6751.97	156.79	73.73	25.19	173.26	156.79	0.12
6849.00	0.80	338.40	6845.97	157.86	73.32	24.91	174.05	157.86	0.21
6943.00	1.00	320.20	6939.96	159.10	72.55	24.51	174.86	159.10	0.37
7037.00	1.10	316.60	7033.94	160.38	71.41	24.00	175.56	160.38	0.13
7131.00	1.30	321.60	7127.92	161.87	70.13	23.42	176.41	161.87	0.24
7225.00	1.10	339.20	7221.90	163.55	69.14	22.92	177.57	163.55	0.44
7318.00	1.70	334.40	7314.87	165.63	68.23	22.39	179.13	165.63	0.66
7412.00	1.80	339.50	7408.83	168.27	67.11	21.74	181.16	168.27	0.20
7506.00	1.50	333.50	7502.79	170.76	66.05	21.15	183.08	170.76	0.37
7599.00	0.90	329.40	7595.77	172.47	65.13	20.69	184.36	172.47	0.65
7693.00	0.70	317.70	7689.76	173.53	64.37	20.35	185.09	173.53	0.27
7787.00	0.80	328.20	7783.75	174.52	63.64	20.03	185.76	174.52	0.18
7880.00	0.90	314.40	7876.74	175.58	62.77	19.67	186.46	175.58	0.24
7974.00	0.60	302.50	7970.73	176.36	61.83	19.32	186.88	176.36	0.36
8069.00	0.60	262.80	8065.73	176.56	60.92	19.04	186.78	176.56	0.43
8163.00	1.10	229.50	8159.72	175.92	59.74	18.76	185.78	175.92	0.73
8257.00	0.80	228.40	8253.70	174.90	58.57	18.51	184.44	174.90	0.32
8350.00	0.80	206.50	8346.69	173.88	57.79	18.38	183.24	173.88	0.33
8444.00	0.90	178.70	8440.68	172.56	57.51	18.43	181.89	172.56	0.45
8538.00	0.80	168.10	8534.67	171.18	57.67	18.62	180.63	171.18	0.20
8632.00	0.60	181.60	8628.67	170.04	57.79	18.77	179.59	170.04	0.27

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
8726.00	0.90	168.00	8722.66	168.83	57.93	18.94	178.49	168.83	0.37
8820.00	0.90	177.20	8816.65	167.37	58.12	19.15	177.17	167.37	0.15
8913.00	1.20	162.00	8909.63	165.71	58.45	19.43	175.72	165.71	0.44
9007.00	1.00	167.70	9003.61	163.98	58.93	19.77	174.25	163.98	0.24
9101.00	0.90	164.10	9097.60	162.47	59.31	20.06	172.95	162.47	0.12
9195.00	0.80	158.50	9191.59	161.14	59.75	20.34	171.87	161.14	0.14
9278.00	1.40	159.20	9274.58	159.66	60.33	20.70	170.67	159.66	0.72
9372.00	1.50	161.70	9368.55	157.42	61.12	21.22	168.87	157.42	0.13
9465.00	1.40	173.60	9461.52	155.13	61.63	21.67	166.92	155.13	0.34
9559.00	1.10	167.80	9555.49	153.11	61.95	22.03	165.17	153.11	0.35
9653.00	1.10	189.00	9649.48	151.34	62.00	22.28	163.54	151.34	0.43
9747.00	0.80	175.10	9743.46	149.79	61.91	22.46	162.08	149.79	0.40
9841.00	0.80	173.70	9837.45	148.48	62.04	22.68	160.92	148.48	0.02
9935.00	1.00	180.10	9931.44	147.01	62.11	22.90	159.59	147.01	0.24
10029.00	0.90	185.70	10025.43	145.46	62.03	23.10	158.13	145.46	0.15
10122.00	1.00	174.20	10118.42	143.92	62.04	23.32	156.73	143.92	0.23
10316.00	1.00	174.00	10312.39	140.56	62.39	23.94	153.78	140.56	0.00
10410.00	1.20	206.20	10406.37	138.86	62.04	24.08	152.09	138.86	0.68
10504.00	1.30	214.90	10500.35	137.10	61.00	23.99	150.06	137.10	0.23
10598.00	1.60	241.30	10594.32	135.59	59.24	23.60	147.97	135.59	0.77
10692.00	1.90	242.70	10688.28	134.25	56.70	22.90	145.73	134.25	0.32
10785.00	2.20	251.70	10781.22	132.98	53.64	21.97	143.39	132.98	0.47
10879.00	2.60	249.40	10875.13	131.66	49.93	20.77	140.81	131.66	0.44
10973.00	2.70	250.70	10969.03	130.18	45.84	19.40	138.02	130.18	0.12
11067.00	2.90	253.10	11062.92	128.76	41.48	17.86	135.28	128.76	0.25
11161.00	3.00	255.00	11156.80	127.43	36.83	16.12	132.65	127.43	0.15
11254.00	3.10	254.80	11249.66	126.14	32.05	14.26	130.15	126.14	0.11
11348.00	3.30	251.90	11343.52	124.64	27.03	12.23	127.53	124.64	0.27
11442.00	3.00	256.00	11437.38	123.20	22.07	10.15	125.16	123.20	0.40
11535.00	2.30	263.20	11530.28	122.39	17.85	8.30	123.69	122.39	0.83
11630.00	2.50	264.50	11625.19	121.97	13.90	6.50	122.76	121.97	0.22
11724.00	2.70	258.00	11719.10	121.31	9.69	4.57	121.70	121.31	0.38
11818.00	2.90	259.30	11812.98	120.41	5.19	2.47	120.52	120.41	0.22
11912.00	2.70	264.30	11906.87	119.75	0.65	0.31	119.75	119.75	0.34
12005.00	3.00	262.60	11999.76	119.21	-3.94	358.11	119.28	119.21	0.34
12099.00	3.10	259.20	12093.62	118.42	-8.88	355.71	118.75	118.42	0.22
12193.00	2.90	250.50	12187.50	117.15	-13.62	353.37	117.94	117.15	0.53

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
12287.00	3.00	249.80	12281.37	115.51	-18.17	351.06	116.93	115.51	0.11
12381.00	2.20	236.10	12375.27	113.65	-21.97	349.06	115.76	113.65	1.07
12475.00	2.00	233.40	12469.21	111.67	-24.79	347.48	114.39	111.67	0.24
12568.00	2.20	243.00	12562.15	109.89	-27.68	345.86	113.32	109.89	0.43
12662.00	1.30	237.50	12656.10	108.50	-30.19	344.45	112.62	108.50	0.97
12756.00	1.60	242.60	12750.07	107.32	-32.25	343.27	112.06	107.32	0.35
12850.00	1.70	238.80	12844.04	106.00	-34.61	341.92	111.50	106.00	0.16
12944.00	1.80	245.20	12937.99	104.65	-37.14	340.46	111.05	104.65	0.23
13037.00	1.90	152.30	13030.96	102.68	-37.75	339.81	109.40	102.68	2.88
13128.00	2.00	247.60	13121.93	100.73	-38.52	339.07	107.85	100.73	3.17
13221.00	2.10	253.90	13214.87	99.64	-41.66	337.31	108.00	99.64	0.26
13315.00	2.10	256.80	13308.80	98.77	-44.99	335.51	108.54	98.77	0.11
13409.00	2.20	256.60	13402.74	97.96	-48.42	333.70	109.28	97.96	0.11
13503.00	2.20	258.80	13496.67	97.19	-51.95	331.88	110.20	97.19	0.09
13596.00	2.30	264.30	13589.60	96.66	-55.55	330.11	111.49	96.66	0.26
13690.00	2.50	266.00	13683.51	96.33	-59.48	328.31	113.21	96.33	0.23
13784.00	2.60	267.60	13777.42	96.10	-63.65	326.48	115.27	96.10	0.13
13878.00	2.70	268.20	13871.32	95.94	-67.99	324.67	117.59	95.94	0.11
14062.00	3.10	271.50	14055.08	95.93	-77.30	321.14	123.20	95.93	0.24
14156.00	3.40	271.00	14148.93	96.05	-82.63	319.30	126.70	96.05	0.32
14250.00	2.60	297.40	14242.81	97.08	-87.31	318.03	130.56	97.08	1.68
14344.00	2.50	292.20	14336.72	98.83	-91.10	317.33	134.41	98.83	0.27
14438.00	2.60	298.50	14430.62	100.63	-94.87	316.69	138.30	100.63	0.32
14532.00	2.50	297.10	14524.53	102.58	-98.57	316.14	142.26	102.58	0.13
14621.00	2.60	299.20	14613.44	104.45	-102.06	315.66	146.03	104.45	0.15
14716.00	2.50	295.30	14708.35	106.38	-105.81	315.15	150.05	106.38	0.21
14809.00	2.30	290.40	14801.27	107.90	-109.40	314.61	153.66	107.90	0.31

**Projected Survey**

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
14859.00	2.30	290.40	14851.23	108.60	-111.28	314.30	155.49	108.60	0.00