

End of Well Report for XTO Energy Inc.

Rig : Akita 90
Well Name : Severus 31-5 Fed Com #11H
Field Name : Lea County, NM (NAD27)
Country : USA
Job Number : MO-XX-0905910382
Job Start Date : 30-Aug-19
API Number : 30-025-46223

DIRECTIONAL SURVEY DATA

Tie-in

0.00 0.00 0.00 0.00 0.00 N 0.00 E

Measured Depth (ft)	Inclination (deg)	Direction (deg)	Vertical Depth (ft)	Latitude (ft)	Departure (ft)	Vertical Section (ft)	Dogleg (°/100')
0.00	0.00	0.00	0.00	0.00 N	0.00 E	0.00	0.00
159.00	0.33	216.62	159.00	0.37 S	0.28 W	0.37	0.21
279.00	0.25	208.45	279.00	0.89 S	0.61 W	0.87	0.07
372.00	0.23	180.93	372.00	1.26 S	0.71 W	1.24	0.13
461.00	0.32	218.74	461.00	1.63 S	0.87 W	1.61	0.22
550.00	0.33	296.34	549.99	1.71 S	1.26 W	1.68	0.46
640.00	0.29	308.61	639.99	1.45 S	1.67 W	1.41	0.09
733.00	0.25	316.93	732.99	1.16 S	1.99 W	1.11	0.06
829.00	0.31	253.11	828.99	1.08 S	2.38 W	1.03	0.31
923.00	0.28	224.04	922.99	1.32 S	2.79 W	1.26	0.16
1018.00	0.31	221.87	1,017.99	1.68 S	3.13 W	1.62	0.03
1113.00	0.35	256.97	1,112.99	1.94 S	3.58 W	1.87	0.21
1208.00	0.38	247.70	1,207.99	2.13 S	4.16 W	2.04	0.07
1303.00	0.17	221.98	1,302.98	2.35 S	4.54 W	2.25	0.26
1398.00	0.18	234.62	1,397.98	2.54 S	4.76 W	2.44	0.05
1493.00	0.37	267.43	1,492.98	2.64 S	5.20 W	2.53	0.25
1536.00	0.51	258.47	1,535.98	2.69 S	5.52 W	2.57	0.35
1682.00	0.31	255.13	1,681.98	2.92 S	6.53 W	2.78	0.14
1777.00	0.13	117.46	1,776.98	3.03 S	6.69 W	2.89	0.43
1872.00	0.38	91.25	1,871.98	3.09 S	6.28 W	2.95	0.29
1966.00	0.40	87.43	1,965.97	3.08 S	5.64 W	2.96	0.04
2061.00	0.33	70.69	2,060.97	2.97 S	5.04 W	2.87	0.13
2156.00	0.34	62.49	2,155.97	2.75 S	4.53 W	2.65	0.05
2251.00	0.10	66.82	2,250.97	2.59 S	4.20 W	2.50	0.26
2345.00	0.07	38.50	2,344.97	2.51 S	4.10 W	2.42	0.05
2441.00	0.11	345.71	2,440.97	2.38 S	4.08 W	2.29	0.09
2535.00	0.09	349.09	2,534.97	2.21 S	4.12 W	2.13	0.02
2630.00	0.20	51.18	2,629.97	2.03 S	4.01 W	1.95	0.18
2725.00	0.17	65.69	2,724.97	1.88 S	3.75 W	1.80	0.06
2820.00	0.11	22.75	2,819.97	1.73 S	3.59 W	1.66	0.12
2915.00	0.12	51.58	2,914.97	1.59 S	3.48 W	1.51	0.06
3009.00	0.26	45.37	3,008.97	1.37 S	3.24 W	1.30	0.15
3103.00	0.35	60.81	3,102.97	1.08 S	2.84 W	1.02	0.13
3198.00	0.52	66.04	3,197.96	0.76 S	2.19 W	0.71	0.19
3293.00	0.99	63.30	3,292.96	0.22 S	1.06 W	0.19	0.49
3388.00	0.78	65.80	3,387.94	0.42 N	0.26 E	-0.41	0.23
3483.00	0.75	55.00	3,482.94	1.03 N	1.35 E	-1.01	0.15
3578.00	0.75	45.43	3,577.93	1.82 N	2.30 E	-1.77	0.13
3672.00	0.65	27.62	3,671.92	2.73 N	2.99 E	-2.66	0.25
3768.00	0.56	12.73	3,767.92	3.67 N	3.34 E	-3.59	0.19
3863.00	0.56	6.01	3,862.91	4.58 N	3.49 E	-4.50	0.07

DIRECTIONAL SURVEY DATA

Measured Depth (ft)	Inclination (deg)	Direction (deg)	Vertical Depth (ft)	Latitude (ft)	Departure (ft)	Vertical Section (ft)	Dogleg (°/100')
3957.00	0.49	350.02	3,956.91	5.44 N	3.47 E	-5.36	0.17
4052.00	0.22	280.98	4,051.91	5.87 N	3.22 E	-5.81	0.49
4147.00	0.31	254.98	4,146.90	5.84 N	2.79 E	-5.78	0.16
4242.00	0.51	265.21	4,241.90	5.74 N	2.12 E	-5.69	0.21
4337.00	0.61	259.25	4,336.90	5.61 N	1.20 E	-5.58	0.13
4431.00	0.52	282.53	4,430.89	5.61 N	0.29 E	-5.60	0.26
4526.00	0.51	283.26	4,525.89	5.80 N	0.55 W	-5.81	0.02
4620.00	0.49	283.33	4,619.89	5.99 N	1.34 W	-6.02	0.02
4715.00	0.56	281.76	4,714.88	6.18 N	2.19 W	-6.22	0.07
4810.00	0.64	270.14	4,809.88	6.27 N	3.16 W	-6.34	0.15
4905.00	0.44	270.18	4,904.87	6.27 N	4.05 W	-6.36	0.21
5000.00	0.37	328.87	4,999.87	6.54 N	4.57 W	-6.63	0.42
5095.00	0.97	22.56	5,094.86	7.54 N	4.42 W	-7.63	0.85
5190.00	2.03	29.57	5,189.83	9.74 N	3.29 W	-9.81	1.13
5284.00	3.55	36.97	5,283.72	13.51 N	0.72 W	-13.53	1.66
5379.00	5.55	45.55	5,378.41	19.08 N	4.33 E	-18.99	2.22
5474.00	6.25	54.98	5,472.91	25.27 N	11.85 E	-25.02	1.26
5569.00	6.07	55.15	5,567.36	31.11 N	20.21 E	-30.68	0.19
5663.00	5.97	54.72	5,660.84	36.77 N	28.28 E	-36.17	0.12
5698.00	5.89	54.20	5,695.66	38.87 N	31.22 E	-38.21	0.28
5806.00	5.66	53.69	5,803.11	45.27 N	40.00 E	-44.42	0.21
5900.00	6.17	61.22	5,896.61	50.44 N	48.16 E	-49.42	0.98
5994.00	6.20	61.01	5,990.06	55.33 N	57.02 E	-54.12	0.04
6089.00	6.20	62.04	6,084.51	60.22 N	66.04 E	-58.82	0.12
6182.00	6.03	61.86	6,176.98	64.88 N	74.79 E	-63.30	0.19
6276.00	6.22	57.54	6,270.44	69.94 N	83.44 E	-68.18	0.53
6370.00	6.21	53.43	6,363.89	75.71 N	91.82 E	-73.76	0.47
6465.00	6.08	52.26	6,458.34	81.85 N	99.93 E	-79.73	0.19
6559.00	5.89	53.66	6,551.83	87.75 N	107.75 E	-85.47	0.25
6654.00	5.34	54.35	6,646.38	93.22 N	115.27 E	-90.78	0.59
6748.00	5.22	51.46	6,739.98	98.43 N	122.17 E	-95.85	0.31
6843.00	5.00	49.72	6,834.60	103.81 N	128.71 E	-101.08	0.29
6937.00	4.85	49.67	6,928.25	109.03 N	134.87 E	-106.17	0.16
7031.00	4.79	50.78	7,021.92	114.08 N	140.94 E	-111.09	0.12
7125.00	4.33	49.31	7,115.62	118.87 N	146.67 E	-115.77	0.50
7220.00	4.15	49.29	7,210.36	123.45 N	151.99 E	-120.23	0.19
7314.00	4.00	50.39	7,304.12	127.76 N	157.10 E	-124.44	0.18
7409.00	3.25	56.28	7,398.93	131.37 N	161.89 E	-127.94	0.88
7503.00	1.96	74.49	7,492.84	133.28 N	165.66 E	-129.77	1.61
7598.00	1.33	103.21	7,587.80	133.46 N	168.29 E	-129.90	1.07
7692.00	0.74	136.78	7,681.78	132.77 N	169.77 E	-129.18	0.87
7786.00	0.64	146.68	7,775.78	131.89 N	170.48 E	-128.28	0.17
7880.00	0.61	140.89	7,869.77	131.06 N	171.08 E	-127.44	0.07
7975.00	0.18	143.18	7,964.77	130.55 N	171.49 E	-126.92	0.45
8069.00	0.40	302.13	8,058.77	130.61 N	171.30 E	-126.98	0.61

DIRECTIONAL SURVEY DATA

Measured Depth (ft)	Inclination (deg)	Direction (deg)	Vertical Depth (ft)	Latitude (ft)	Departure (ft)	Vertical Section (ft)	Dogleg (°/100')
8163.00	0.47	325.88	8,152.76	131.10 N	170.81 E	-127.48	0.20
8258.00	0.55	314.35	8,247.76	131.74 N	170.26 E	-128.14	0.14
8352.00	0.40	327.02	8,341.76	132.33 N	169.76 E	-128.74	0.19
8446.00	0.52	342.60	8,435.75	133.01 N	169.45 E	-129.43	0.18
8540.00	0.47	331.90	8,529.75	133.76 N	169.14 E	-130.18	0.11
8635.00	0.41	347.80	8,624.75	134.44 N	168.89 E	-130.86	0.14
8728.00	0.36	46.98	8,717.75	134.96 N	169.03 E	-131.38	0.41
8822.00	0.22	262.18	8,811.75	135.14 N	169.07 E	-131.56	0.59
8916.00	0.44	211.49	8,905.74	134.81 N	168.70 E	-131.23	0.37
9010.00	1.20	156.76	8,999.74	133.59 N	168.90 E	-130.02	1.08
9105.00	0.62	179.71	9,094.72	132.17 N	169.30 E	-128.58	0.71
9199.00	0.81	140.10	9,188.72	131.15 N	169.73 E	-127.56	0.55
9293.00	0.54	207.25	9,282.71	130.24 N	169.95 E	-126.65	0.83
9388.00	0.61	152.94	9,377.71	129.40 N	169.97 E	-125.80	0.56
9482.00	0.41	182.23	9,471.70	128.61 N	170.19 E	-125.01	0.34
9577.00	0.97	186.47	9,566.70	127.48 N	170.08 E	-123.88	0.59
9672.00	1.89	222.92	9,661.67	125.53 N	168.93 E	-121.95	1.32
9766.00	1.50	245.49	9,755.63	123.88 N	166.75 E	-120.36	0.81
9860.00	2.04	205.81	9,849.58	121.87 N	164.90 E	-118.38	1.39
9914.00	2.37	204.29	9,903.54	119.98 N	164.03 E	-116.51	0.62
9949.00	2.15	209.30	9,938.52	118.75 N	163.41 E	-115.29	0.84
9996.00	5.17	204.10	9,985.42	116.05 N	162.11 E	-112.62	6.46
10043.00	13.68	198.94	10,031.74	108.85 N	159.44 E	-105.47	18.18
10090.00	19.22	200.22	10,076.80	96.32 N	154.96 E	-93.05	11.81
10137.00	20.00	196.39	10,121.07	81.35 N	150.01 E	-78.18	3.20
10184.00	23.42	190.70	10,164.74	64.45 N	146.01 E	-61.37	8.54
10231.00	30.44	193.48	10,206.62	43.67 N	141.50 E	-40.69	15.17
10278.00	33.89	190.97	10,246.40	19.22 N	136.22 E	-16.36	7.87
10325.00	31.91	187.31	10,285.86	5.97 S	132.15 E	8.74	5.97
10373.00	30.30	184.82	10,326.96	30.62 S	129.52 E	33.33	4.29
10419.00	35.53	183.47	10,365.57	55.54 S	127.73 E	58.21	11.48
10467.00	40.95	181.04	10,403.25	85.22 S	126.60 E	87.86	11.72
10514.00	44.05	180.11	10,437.90	116.96 S	126.29 E	119.59	6.73
10561.00	50.59	180.69	10,469.75	151.49 S	126.04 E	154.11	13.94
10608.00	56.99	182.17	10,497.50	189.38 S	125.07 E	191.97	13.85
10656.00	60.57	185.03	10,522.38	230.34 S	122.48 E	232.86	9.03
10703.00	66.05	183.57	10,543.48	272.19 S	119.34 E	274.64	11.98
10750.00	72.96	183.05	10,559.93	316.12 S	116.81 E	318.50	14.74
10797.00	76.98	182.57	10,572.11	361.45 S	114.59 E	363.77	8.61
10845.00	81.00	182.10	10,581.28	408.51 S	112.67 E	410.79	8.43
10892.00	84.48	181.57	10,587.22	455.11 S	111.18 E	457.34	7.49
10939.00	86.12	180.82	10,591.07	501.94 S	110.20 E	504.14	3.83
11034.00	87.87	178.88	10,596.05	596.80 S	110.45 E	598.98	2.75
11128.00	90.19	178.84	10,597.64	690.76 S	112.32 E	692.97	2.47
11222.00	92.19	179.13	10,595.69	784.72 S	113.98 E	786.94	2.15

DIRECTIONAL SURVEY DATA

Measured Depth (ft)	Inclination (deg)	Direction (deg)	Vertical Depth (ft)	Latitude (ft)	Departure (ft)	Vertical Section (ft)	Dogleg (°/100')
11316.00	89.54	179.37	10,594.27	878.69 S	115.21 E	880.92	2.83
11411.00	88.52	178.99	10,595.88	973.67 S	116.57 E	975.90	1.15
11505.00	88.09	179.28	10,598.66	1,067.61 S	117.99 E	1069.86	0.55
11599.00	87.59	178.33	10,602.20	1,161.53 S	119.95 E	1163.79	1.14
11694.00	89.14	179.03	10,604.91	1,256.46 S	122.14 E	1258.75	1.79
11788.00	90.89	177.50	10,604.89	1,350.41 S	124.98 E	1352.74	2.47
11882.00	91.94	178.24	10,602.57	1,444.31 S	128.48 E	1446.69	1.37
11975.00	90.99	178.01	10,600.19	1,537.23 S	131.52 E	1539.66	1.05
12069.00	90.96	177.57	10,598.59	1,631.15 S	135.14 E	1633.63	0.47
12164.00	90.46	177.56	10,597.41	1,726.06 S	139.18 E	1728.60	0.53
12258.00	88.27	179.77	10,598.45	1,820.01 S	141.37 E	1822.58	3.31
12352.00	87.32	178.25	10,602.07	1,913.92 S	142.99 E	1916.51	1.91
12446.00	88.92	180.66	10,605.15	2,007.86 S	143.88 E	2010.44	3.08
12540.00	87.69	180.05	10,607.93	2,101.81 S	143.30 E	2104.36	1.46
12635.00	88.58	181.69	10,611.03	2,196.75 S	141.86 E	2199.24	1.96
12730.00	87.50	181.37	10,614.28	2,291.66 S	139.32 E	2294.08	1.19
12824.00	89.78	181.42	10,616.51	2,385.60 S	137.04 E	2387.95	2.43
12919.00	89.38	180.45	10,617.20	2,480.58 S	135.49 E	2482.88	1.10
13014.00	89.41	182.76	10,618.21	2,575.53 S	132.83 E	2577.75	2.43
13108.00	89.66	182.38	10,618.97	2,669.43 S	128.61 E	2671.55	0.48
13202.00	89.75	181.20	10,619.45	2,763.39 S	125.68 E	2765.42	1.26
13297.00	88.46	181.27	10,620.94	2,858.35 S	123.63 E	2860.32	1.36
13391.00	90.77	178.92	10,621.57	2,952.33 S	123.47 E	2954.28	3.51
13486.00	90.15	178.39	10,620.81	3,047.30 S	125.70 E	3049.27	0.86
13580.00	88.92	177.57	10,621.57	3,141.24 S	129.02 E	3143.26	1.57
13675.00	90.03	179.30	10,622.44	3,236.20 S	131.61 E	3238.25	2.16
13769.00	88.74	178.79	10,623.45	3,330.18 S	133.18 E	3332.24	1.48
13863.00	91.54	178.33	10,623.22	3,424.14 S	135.54 E	3426.23	3.02
13958.00	90.49	177.05	10,621.54	3,519.04 S	139.37 E	3521.19	1.74
14052.00	90.65	179.71	10,620.60	3,612.99 S	142.02 E	3615.18	2.83
14147.00	89.01	178.24	10,620.88	3,707.97 S	143.72 E	3710.17	2.32
14241.00	90.34	180.52	10,621.42	3,801.95 S	144.74 E	3804.15	2.81
14336.00	90.03	180.30	10,621.11	3,896.95 S	144.06 E	3899.12	0.40
14430.00	88.71	179.73	10,622.14	3,990.94 S	144.04 E	3993.09	1.53
14525.00	89.26	179.85	10,623.83	4,085.93 S	144.38 E	4088.06	0.59
14619.00	89.17	180.06	10,625.11	4,179.92 S	144.46 E	4182.03	0.24
14713.00	91.20	178.78	10,624.81	4,273.90 S	145.41 E	4276.02	2.55
14808.00	89.63	178.22	10,624.12	4,368.87 S	147.90 E	4371.01	1.75
14903.00	90.31	178.17	10,624.17	4,463.82 S	150.89 E	4466.00	0.72
14998.00	88.83	177.40	10,624.88	4,558.74 S	154.56 E	4560.98	1.76
15092.00	89.85	179.73	10,625.97	4,652.70 S	156.91 E	4654.97	2.71
15186.00	91.20	180.69	10,625.11	4,746.69 S	156.57 E	4748.93	1.76
15280.00	90.49	178.91	10,623.72	4,840.68 S	156.90 E	4842.90	2.04
15375.00	91.26	179.74	10,622.27	4,935.66 S	158.02 E	4937.89	1.19
15471.00	91.29	182.35	10,620.13	5,031.61 S	156.27 E	5033.78	2.72

DIRECTIONAL SURVEY DATA

Measured Depth (ft)	Inclination (deg)	Direction (deg)	Vertical Depth (ft)	Latitude (ft)	Departure (ft)	Vertical Section (ft)	Dogleg (°/100')
15567.00	90.62	181.30	10,618.53	5,127.54 S	153.21 E	5129.63	1.30
15661.00	88.64	180.24	10,619.14	5,221.53 S	151.95 E	5223.57	2.39
15756.00	86.73	179.34	10,622.98	5,316.44 S	152.29 E	5318.47	2.22
15851.00	89.97	179.07	10,625.71	5,411.38 S	153.61 E	5413.42	3.42
15946.00	88.06	178.24	10,627.34	5,506.34 S	155.84 E	5508.40	2.19
16041.00	91.05	179.18	10,628.08	5,601.30 S	157.98 E	5603.38	3.30
16135.00	90.31	178.53	10,626.97	5,695.27 S	159.86 E	5697.37	1.05
16230.00	91.20	180.35	10,625.71	5,790.25 S	160.79 E	5792.35	2.13
16325.00	91.26	179.23	10,623.68	5,885.23 S	161.13 E	5887.32	1.18
16419.00	88.18	177.33	10,624.14	5,979.17 S	163.95 E	5981.30	3.85
16514.00	90.00	179.09	10,625.64	6,074.10 S	166.92 E	6076.27	2.66
16608.00	90.34	181.15	10,625.37	6,168.10 S	166.72 E	6170.24	2.22
16703.00	90.68	180.94	10,624.52	6,263.08 S	164.99 E	6265.16	0.42
16798.00	91.02	180.47	10,623.11	6,358.06 S	163.82 E	6360.10	0.61
16893.00	88.37	181.02	10,623.62	6,453.04 S	162.59 E	6455.03	2.85
16987.00	86.61	180.61	10,627.73	6,546.94 S	161.25 E	6548.88	1.92
17083.00	89.23	180.84	10,631.22	6,642.86 S	160.04 E	6644.76	2.74
17177.00	88.68	180.32	10,632.93	6,736.84 S	159.09 E	6738.69	0.81
17272.00	87.35	180.08	10,636.22	6,831.78 S	158.76 E	6833.61	1.42
17367.00	89.38	178.90	10,638.93	6,926.73 S	159.60 E	6928.55	2.47
17461.00	89.41	179.71	10,639.92	7,020.72 S	160.74 E	7022.54	0.86
17556.00	88.06	180.05	10,642.02	7,115.69 S	160.94 E	7117.50	1.47
17650.00	86.27	179.54	10,646.67	7,209.57 S	161.28 E	7211.37	1.98
17745.00	89.94	178.76	10,649.81	7,304.49 S	162.69 E	7306.30	3.95
17831.00	89.26	178.23	10,650.41	7,390.46 S	164.94 E	7392.29	1.00
17925.00	88.55	177.94	10,652.21	7,484.39 S	168.08 E	7486.27	0.82
18021.00	87.94	178.79	10,655.15	7,580.30 S	170.82 E	7582.22	1.09
18116.00	88.03	180.04	10,658.49	7,675.24 S	171.79 E	7677.15	1.32
18210.00	88.46	180.20	10,661.37	7,769.19 S	171.60 E	7771.08	0.49
18305.00	88.68	179.89	10,663.74	7,864.16 S	171.52 E	7866.03	0.40
18399.00	88.06	179.32	10,666.41	7,958.12 S	172.17 E	7959.98	0.90
18495.00	87.65	178.87	10,670.01	8,054.04 S	173.68 E	8055.91	0.63
18568.00	86.55	178.55	10,673.70	8,126.93 S	175.32 E	8128.82	1.57
18619.00	86.55	178.55	10,676.77	8,177.82 S	176.61 E	8179.73	0.00

DIRECTIONAL SURVEY DATA NOTES

- Calculation based on minimum curvature method.
- Survey coordinates relative to well system reference point.
- TVD values given relative to drilling measurement point.
- Vertical section relative to well head.
- Vertical section is computed along a direction of 178.80 degrees (Grid)
- A total correction of 6.42 deg from Magnetic north to Grid north has been applied
- Horizontal displacement is relative to the well head.
- Horizontal displacement (closure) at 18,619.00 feet is 8,179.73 feet along 178.76 degrees (Grid)

WARRANTY

HALLIBURTON ENERGY SERVICES, INC. WILL USE ITS BEST EFFORTS TO FURNISH CUSTOMERS WITH ACCURATE INFORMATION AND INTERPRETATIONS THAT ARE PART OF, AND INCIDENT TO, THE SERVICES PROVIDED. HOWEVER, HALLIBURTON ENERGY SERVICES, INC. CANNOT AND DOES NOT WARRANT THE ACCURACY OR CORRECTNESS OF SUCH INFORMATION AND INTERPRETATIONS. UNDER NO CIRCUMSTANCES SHOULD ANY SUCH INFORMATION OR INTERPRETATION BE RELIED UPON AS THE SOLE BASIS FOR ANY DRILLING, COMPLETION, PRODUCTION, OR FINANCIAL DECISION OR ANY PROCEDURE INVOLVING ANY RISK TO THE SAFETY OF ANY DRILLING VENTURE, DRILLING RIG OR ITS CREW OR ANY THIRD PARTY. THE CUSTOMER HAS FULL RESPONSIBILITY FOR ALL DRILLING, COMPLETION, AND PRODUCTION OPERATION. HALLIBURTON ENERGY SERVICES, INC. MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WITH RESPECT TO THE SERVICES RENDERED. IN NO EVENT WILL HALLIBURTON ENERGY SERVICES, INC. SERVICES BE LIABLE FOR FAILURE TO OBTAIN ANY PARTICULAR RESULTS OR FOR ANY DAMAGES, INCLUDING, BUT NOT LIMITED TO, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES, RESULTING FROM THE USE OF ANY INFORMATION OR INTERPRETATION PROVIDED BY HALLIBURTON ENERGY SERVICES, INC.

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State of New Mexico, Lea County

I, Garrett Ruiz certify that I am employed by Halliburton Energy Services, Inc. (aka Sperry Drilling) and that on the dates of September 01, 2019 through September 26, 2019, I did conduct or supervise the taking of MWD directional surveys for the Severus 31-5 Fed Com 11H well from a depth of 159' MD to a depth of 18619' MD. This data is true, correct, complete and within the limitations of the tools as set forth by Halliburton Energy Services, Inc. (aka Sperry Drilling). I am authorized and qualified to make this report and these surveys were conducted at the request of XTO Energy Inc., for the Severus 31-5 Fed Com 11H well in Lea County. I have reviewed this report and find that it confirms to the principles and procedures as set forth by Halliburton Energy Services, Inc. (aka Sperry Drilling.)


Garrett Ruiz
Field Engineer