

DrilTech, LLC MWD Survey Report



Company: Ring Energy, Inc.
 Well: University 14S #1402H
 Location: Andrews Co., TX
 Rig: Norton 4

Job Number: DM-2024-018-REDT-TX
 Vertical Section Plane: 167.03
 Well API Number: 42-003-48043
 Tie Into: Invictus Wildfire MWD Surveys

Total Correction: **8.70**
 Corrected To: **Grid North / NAD 27**
 Sate Plane Zone: **Texas North Central**
 Calculation Method: **Minimum Curvature**

Survey #	Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
								N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)			

Tie In	MWD	1701.00	0.80	179.70	0.00	1700.96	0.00	1.40	S	6.90	E	0.00	0.00	0.00	0.00	0.00
1	MWD	1750.00	0.97	197.31	49	1749.95	3.60	2.14	S	6.78	E	7.11	107.51	0.65	0.35	35.94
2	MWD	1846.00	1.32	214.28	96	1845.94	5.06	3.83	S	5.91	E	7.04	122.91	0.50	0.36	17.68
3	MWD	1942.00	0.26	173.76	96	1941.93	6.02	4.96	S	5.31	E	7.27	133.01	1.18	-1.10	-42.21
4	MWD	2037.00	0.53	79.54	95	2036.92	6.26	5.09	S	5.77	E	7.70	131.43	0.64	0.28	-99.18
5	MWD	2132.00	0.53	83.85	95	2131.92	6.33	4.97	S	6.64	E	8.29	126.79	0.04	0.00	4.54
6	MWD	2227.00	0.97	73.12	95	2226.91	6.33	4.68	S	7.85	E	9.14	120.84	0.48	0.46	-11.29
7	MWD	2323.00	1.14	41.31	96	2322.90	5.71	3.73	S	9.25	E	9.98	111.96	0.63	0.18	-33.14
8	MWD	2418.00	1.41	3.69	95	2417.87	4.04	1.86	S	9.95	E	10.12	100.56	0.91	0.28	-39.60
9	MWD	2512.00	1.49	2.02	94	2511.84	1.75	0.52	N	10.07	E	10.08	87.04	0.10	0.09	-1.78
10	MWD	2607.00	0.44	316.76	95	2606.83	0.25	2.02	N	9.86	E	10.07	78.42	1.29	-1.11	-47.64
11	MWD	2703.00	0.35	240.99	96	2702.83	0.01	2.15	N	9.35	E	9.60	77.08	0.51	-0.09	-78.93
12	MWD	2798.00	0.18	138.78	95	2797.83	0.22	1.89	N	9.20	E	9.39	78.37	0.45	-0.18	-107.59
13	MWD	2894.00	0.62	351.21	96	2893.83	-0.17	2.29	N	9.22	E	9.50	76.03	0.81	0.46	-153.72
14	MWD	2989.00	1.23	4.13	95	2988.81	-1.65	3.82	N	9.21	E	9.97	67.49	0.67	0.64	13.60
15	MWD	3084.00	1.14	11.34	95	3083.79	-3.49	5.76	N	9.47	E	11.09	58.69	0.18	-0.09	7.59
16	MWD	3179.00	0.79	11.42	95	3178.78	-4.95	7.33	N	9.79	E	12.23	53.17	0.37	-0.37	0.08
17	MWD	3274.00	0.97	24.78	95	3273.77	-6.18	8.70	N	10.26	E	13.45	49.68	0.29	0.19	14.06
18	MWD	3370.00	0.70	37.97	96	3369.76	-7.19	9.90	N	10.96	E	14.77	47.89	0.34	-0.28	13.74
19	MWD	3465.00	0.70	48.51	95	3464.75	-7.83	10.74	N	11.75	E	15.92	47.56	0.14	0.00	11.09
20	MWD	3560.00	0.53	308.67	95	3559.75	-8.46	11.40	N	11.84	E	16.44	46.08	1.00	-0.18	-105.09
21	MWD	3655.00	0.35	292.94	95	3654.74	-8.97	11.79	N	11.23	E	16.28	43.60	0.23	-0.19	-16.56
22	MWD	3751.00	0.62	274.92	96	3750.74	-9.30	11.95	N	10.44	E	15.87	41.15	0.32	0.28	-18.77
23	MWD	3814.00	1.23	209.79	63	3813.73	-8.91	11.39	N	9.77	E	15.01	40.61	1.78	0.97	-103.38
24	MWD	3846.00	3.25	194.76	32	3845.71	-7.85	10.22	N	9.37	E	13.86	42.51	6.52	6.31	-46.97
25	MWD	3878.00	5.98	190.37	32	3877.60	-5.52	7.70	N	8.83	E	11.72	48.92	8.60	8.53	-13.72
26	MWD	3909.00	8.88	188.79	31	3908.34	-1.82	3.75	N	8.18	E	8.99	65.39	9.38	9.35	-5.10
27	MWD	3941.00	11.78	188.61	32	3939.82	3.52	1.93	S	7.31	E	7.56	104.76	9.06	9.06	-0.56
28	MWD	3973.00	14.68	187.38	32	3970.96	10.36	9.18	S	6.30	E	11.13	145.53	9.10	9.06	-3.84
29	MWD	4005.00	17.32	184.31	32	4001.72	18.71	17.95	S	5.42	E	18.75	163.19	8.66	8.25	-9.59
30	MWD	4037.00	19.96	180.17	32	4032.04	28.58	28.16	S	5.05	E	28.61	169.84	9.22	8.25	-12.94
31	MWD	4068.00	22.42	176.04	31	4060.94	39.57	39.36	S	5.44	E	39.73	172.13	9.28	7.94	-13.32
32	MWD	4100.00	24.62	173.23	32	4090.29	52.23	52.06	S	6.65	E	52.49	172.72	7.71	6.88	-8.78
33	MWD	4132.00	26.73	171.12	32	4119.12	66.03	65.80	S	8.54	E	66.35	172.60	7.19	6.59	-6.59



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Survey #	Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
								N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)			
34	MWD	4164.00	29.11	169.89	32	4147.40	80.99	80.57 S	11.02 E	81.32	172.21	7.65	7.44	-3.84
35	MWD	4195.00	31.30	168.22	31	4174.19	96.57	95.88 S	13.99 E	96.90	171.70	7.57	7.06	-5.39
36	MWD	4227.00	33.06	166.90	32	4201.27	113.61	112.52 S	17.67 E	113.90	171.08	5.92	5.50	-4.12
37	MWD	4258.00	34.91	166.29	31	4226.98	130.94	129.37 S	21.69 E	131.18	170.48	6.07	5.97	-1.97
38	MWD	4289.00	36.93	166.46	31	4252.08	149.12	147.05 S	25.97 E	149.32	169.98	6.52	6.52	0.55
39	MWD	4321.00	38.87	167.25	32	4277.33	168.78	166.19 S	30.44 E	168.95	169.62	6.25	6.06	2.47
40	MWD	4353.00	41.06	167.78	32	4301.85	189.33	186.26 S	34.88 E	189.49	169.39	6.93	6.84	1.66
41	MWD	4384.00	43.00	168.22	31	4324.88	210.08	206.56 S	39.19 E	210.24	169.26	6.33	6.26	1.42
42	MWD	4416.00	44.93	168.31	32	4347.91	232.29	228.31 S	43.71 E	232.45	169.16	6.03	6.03	0.28
43	MWD	4447.00	47.13	167.34	31	4369.43	254.60	250.11 S	48.42 E	254.76	169.04	7.45	7.10	-3.13
44	MWD	4479.00	49.68	166.55	32	4390.67	278.53	273.42 S	53.82 E	278.67	168.86	8.18	7.97	-2.47
45	MWD	4511.00	51.97	165.58	32	4410.89	303.33	297.50 S	59.80 E	303.45	168.63	7.53	7.16	-3.03
46	MWD	4543.00	54.08	165.76	32	4430.13	328.89	322.27 S	66.13 E	328.98	168.40	6.61	6.59	0.56
47	MWD	4574.00	56.01	165.50	31	4447.89	354.28	346.88 S	72.43 E	354.36	168.21	6.26	6.23	-0.84
48	MWD	4606.00	59.00	165.58	32	4465.08	381.26	373.01 S	79.17 E	381.32	168.02	9.35	9.34	0.25
49	MWD	4638.00	61.29	166.55	32	4481.01	409.01	399.94 S	85.85 E	409.05	167.88	7.62	7.16	3.03
50	MWD	4669.00	61.91	166.29	31	4495.76	436.28	426.45 S	92.26 E	436.32	167.79	2.13	2.00	-0.84
51	MWD	4701.00	62.17	166.82	32	4510.76	464.54	453.94 S	98.83 E	464.57	167.72	1.67	0.81	1.66
52	MWD	4733.00	62.43	166.73	32	4525.63	492.87	481.52 S	105.31 E	492.90	167.66	0.85	0.81	-0.28
53	MWD	4765.00	62.52	166.90	32	4540.42	521.25	509.15 S	111.78 E	521.28	167.62	0.55	0.28	0.53
54	MWD	4797.00	62.43	166.55	32	4555.21	549.63	536.77 S	118.30 E	549.65	167.57	1.01	-0.28	-1.09
55	MWD	4829.00	62.08	167.08	32	4570.11	577.95	564.35 S	124.76 E	577.97	167.53	1.83	-1.09	1.66
56	MWD	4861.00	62.08	166.64	32	4585.09	606.22	591.88 S	131.19 E	606.24	167.50	1.21	0.00	-1.38
57	MWD	4893.00	62.43	167.17	32	4599.99	634.54	619.46 S	137.60 E	634.56	167.48	1.83	1.09	1.66
58	MWD	4924.00	65.33	167.08	31	4613.63	662.38	646.60 S	143.80 E	662.39	167.46	9.36	9.35	-0.29
59	MWD	4956.00	68.50	166.99	32	4626.18	691.81	675.28 S	150.41 E	691.83	167.44	9.91	9.91	-0.28
60	MWD	4988.00	71.84	166.64	32	4637.03	721.91	704.58 S	157.27 E	721.92	167.42	10.49	10.44	-1.09
61	MWD	5020.00	75.27	166.46	32	4646.09	752.59	734.43 S	164.41 E	752.61	167.38	10.73	10.72	-0.56
62	MWD	5052.00	78.79	166.82	32	4653.27	783.77	764.76 S	171.62 E	783.78	167.35	11.05	11.00	1.12
63	MWD	5083.00	81.95	165.85	31	4658.46	814.33	794.46 S	178.84 E	814.34	167.31	10.65	10.19	-3.13
64	MWD	5115.00	84.77	166.02	32	4662.16	846.10	825.29 S	186.56 E	846.11	167.26	8.83	8.81	0.53
65	MWD	5146.00	88.02	165.67	31	4664.11	877.03	855.28 S	194.13 E	877.04	167.21	10.54	10.48	-1.13
66	MWD	5178.00	90.31	166.38	32	4664.57	909.02	886.33 S	201.85 E	909.02	167.17	7.49	7.16	2.22
67	MWD	5273.00	92.07	167.78	95	4662.60	1003.99	978.90 S	223.09 E	1004.00	167.16	2.37	1.85	1.47
68	MWD	5369.00	90.40	166.38	96	4660.53	1099.97	1072.44 S	244.55 E	1099.97	167.15	2.27	-1.74	-1.46
69	MWD	5463.00	91.01	167.25	94	4659.37	1193.96	1163.95 S	265.99 E	1193.96	167.13	1.13	0.65	0.93
70	MWD	5559.00	90.66	166.82	96	4657.98	1289.95	1257.50 S	287.52 E	1289.95	167.12	0.58	-0.36	-0.45



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71	MWD	5654.00	89.34	167.43	95	4657.98	1384.94	1350.10 S	308.69 E	1384.94	167.12	1.53	-1.39	0.64
72	MWD	5750.00	90.04	167.25	96	4658.50	1480.94	1443.77 S	329.73 E	1480.94	167.14	0.75	0.73	-0.19
73	MWD	5845.00	88.46	166.02	95	4659.74	1575.92	1536.18 S	351.68 E	1575.93	167.11	2.11	-1.66	-1.29
74	MWD	5940.00	88.72	166.55	95	4662.08	1670.89	1628.45 S	374.20 E	1670.89	167.06	0.62	0.27	0.56
75	MWD	6035.00	88.81	166.29	95	4664.12	1765.86	1720.77 S	396.50 E	1765.86	167.02	0.29	0.09	-0.27
76	MWD	6129.00	89.52	166.64	94	4665.49	1859.84	1812.15 S	418.50 E	1859.84	167.00	0.84	0.76	0.37
77	MWD	6224.00	91.36	166.64	95	4664.76	1954.84	1904.57 S	440.45 E	1954.84	166.98	1.94	1.94	0.00
78	MWD	6320.00	90.48	166.29	96	4663.22	2050.82	1997.89 S	462.91 E	2050.82	166.95	0.99	-0.92	-0.36
79	MWD	6416.00	89.25	166.29	96	4663.45	2146.81	2091.15 S	485.67 E	2146.81	166.92	1.28	-1.28	0.00
80	MWD	6506.00	89.34	166.29	90	4664.56	2236.79	2178.58 S	507.00 E	2236.80	166.90	0.10	0.10	0.00
81	MWD	6597.00	90.13	167.34	91	4664.98	2327.79	2267.18 S	527.75 E	2327.80	166.90	1.44	0.87	1.15
82	MWD	6686.00	90.57	167.69	89	4664.43	2416.78	2354.07 S	546.99 E	2416.79	166.92	0.63	0.49	0.39
83	MWD	6776.00	91.10	167.78	90	4663.12	2506.77	2442.01 S	566.11 E	2506.77	166.95	0.60	0.59	0.10
84	MWD	6865.00	91.80	168.57	89	4660.87	2595.72	2529.09 S	584.34 E	2595.72	166.99	1.19	0.79	0.89
85	MWD	6955.00	90.75	167.87	90	4658.87	2685.68	2617.17 S	602.71 E	2685.68	167.03	1.40	-1.17	-0.78
86	MWD	7046.00	88.02	166.64	91	4659.84	2776.66	2705.92 S	622.78 E	2776.66	167.04	3.29	-3.00	-1.35
87	MWD	7142.00	88.02	166.99	96	4663.16	2872.60	2799.33 S	644.67 E	2872.60	167.03	0.36	0.00	0.36
88	MWD	7238.00	90.31	167.96	96	4664.56	2968.58	2893.03 S	665.48 E	2968.58	167.05	2.59	2.39	1.01
89	MWD	7333.00	90.31	168.05	95	4664.05	3063.57	2985.95 S	685.22 E	3063.57	167.08	0.09	0.00	0.09
90	MWD	7428.00	90.92	166.73	95	4663.03	3158.56	3078.65 S	705.96 E	3158.56	167.08	1.53	0.64	-1.39
91	MWD	7523.00	91.19	166.73	95	4661.28	3253.54	3171.10 S	727.76 E	3253.54	167.07	0.28	0.28	0.00
92	MWD	7618.00	91.36	166.20	95	4659.16	3348.51	3263.44 S	749.99 E	3348.51	167.06	0.59	0.18	-0.56
93	MWD	7713.00	91.36	166.20	95	4656.91	3443.47	3355.67 S	772.65 E	3443.47	167.03	0.00	0.00	0.00
94	MWD	7808.00	91.19	165.41	95	4654.79	3538.43	3447.75 S	795.94 E	3538.43	167.00	0.85	-0.18	-0.83
95	MWD	7904.00	89.60	165.50	96	4654.13	3634.39	3540.66 S	820.05 E	3634.39	166.96	1.66	-1.66	0.09
96	MWD	7999.00	89.60	166.20	95	4654.80	3729.36	3632.78 S	843.27 E	3729.37	166.93	0.74	0.00	0.74
97	MWD	8095.00	90.31	166.38	96	4654.87	3825.35	3726.04 S	866.02 E	3825.36	166.92	0.76	0.74	0.19
98	MWD	8191.00	89.78	165.76	96	4654.80	3921.34	3819.22 S	889.13 E	3921.35	166.89	0.85	-0.55	-0.65
99	MWD	8285.00	90.40	167.08	94	4654.65	4015.33	3910.59 S	911.20 E	4015.34	166.88	1.55	0.66	1.40
100	MWD	8380.00	90.92	168.57	95	4653.55	4110.31	4003.44 S	931.24 E	4110.32	166.91	1.66	0.55	1.57
101	MWD	8474.00	91.54	168.66	94	4651.54	4204.26	4095.57 S	949.79 E	4204.26	166.94	0.67	0.66	0.10
102	MWD	8570.00	89.16	167.78	96	4650.95	4300.22	4189.54 S	969.38 E	4300.23	166.97	2.64	-2.48	-0.92
103	MWD	8666.00	89.60	168.05	96	4651.99	4396.21	4283.41 S	989.48 E	4396.21	166.99	0.54	0.46	0.28
104	MWD	8761.00	91.01	169.45	95	4651.48	4491.16	4376.58 S	1008.01 E	4491.16	167.03	2.09	1.48	1.47
105	MWD	8857.00	90.84	169.10	96	4649.93	4587.07	4470.89 S	1025.88 E	4587.07	167.08	0.41	-0.18	-0.36
106	MWD	8952.00	89.78	167.61	95	4649.42	4682.04	4563.93 S	1045.05 E	4682.04	167.10	1.92	-1.12	-1.57
107	MWD	9048.00	91.19	167.61	96	4648.61	4778.03	4657.68 S	1065.65 E	4778.04	167.11	1.47	1.47	0.00



State of Texas

County of [Andrews](#)

I, [Phil LeBlanc](#), certify that I am employed by DrilTech MWD Rentals, LLC. I did on the days of [02/04/2024](#) through [02/09/2024](#) conduct or supervise the taking of the [120](#) surveys from a measured depth of [1,701](#) feet to a measured depth of [10,242](#) feet. The data is true, correct, complete, and within the limitations of the tool as set forth by DrilTech MWD Rentals, LLC. I am authorized and qualified to make this report, and these surveys were conducted at the request of [Ring Energy, Inc.](#) for the [University 14S #1402H](#), API No. [42-003-48043](#) in [Andrews](#) County, Texas. I have reviewed this report and find that it conforms to the principles and procedures as set forth by DrilTech MWD Rentals, LLC.

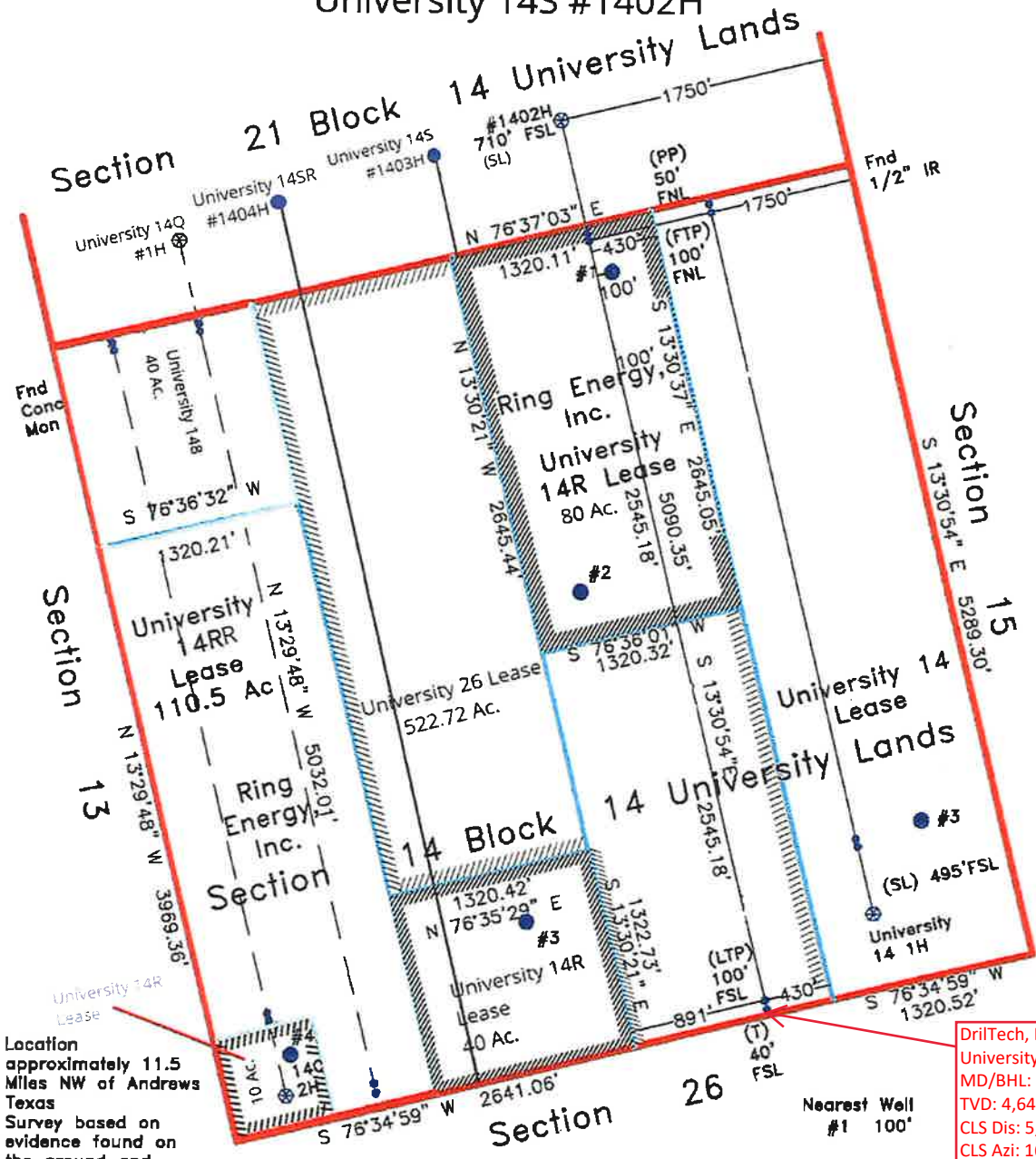
Signature

Phil LeBlanc

Date

02/14/2024

Ring Energy, Inc.
 Section 14 Block 14 University Lands
 University 14S #1402H



Location approximately 11.5 Miles NW of Andrews Texas
 Survey based on evidence found on the ground and information provided by the General Land Office
 Bearings based on Global Positioning System NAD 1983 coordinates North Central Zone

- = Existing Wells
- ⊙ = Surface Locations
- = Take Points
- ▨ = Lease Boundary

DrilTech, LLC
 University 14S #1402H
 MD/BHL: 10,242 ft
 TVD: 4,641.41 ft
 CLS Dis: 5,971.81 ft
 CLS Azi: 167.2°

Description	Coordinates	Section Line	Lease Line
Surface Location	32.4158180° 6860231.90'	710' FSL Section 21	
	102.7086997° 670090.95'	1750' FEL Section 21	
Penetration Point (PP)	32.4138079° 6859492.90'	50' FNL Section 14	50' FNL
	102.7080284° 670268.65'	1750' FEL Section 14	430' FEL
First Take (FTP)	32.4136756° 6859444.28'	100' FNL Section 14	100' FNL
	102.7079843° 670280.34'	1750' FEL Section 14	430' FEL
Last Take (LRP)	32.4002127° 6854494.88'	100' FSL Section 14	100' FSL
	102.7034909° 671469.94'	1750' FEL Section 14	430' FEL
Terminus (T)	32.4000540° 6854436.54'	40' FSL Section 14	40' FSL
	102.7034379° 671483.96'	1750' FEL Section 14	430' FEL



E-3250'

I hereby certify that this survey was made on the ground and that this plat correctly represents the facts found at the time of the survey.

William K. Heatley

**SURVEY PLAT IN
 ANDREWS COUNTY
 TEXAS**
HEATLEY SURVEYING
 P.O. BOX 1
 BRECKENRIDGE, TX 76424
 (254) 559-8914
 Print Number: AN-122L

SCALE: 1" = 1000'
 DATE: 03-10-2019
 FILE: RING UNIV 14 SEC 14 #1402

William K. Heatley
 Registered Professional Land Surveyor #4015
 Firm #10079500