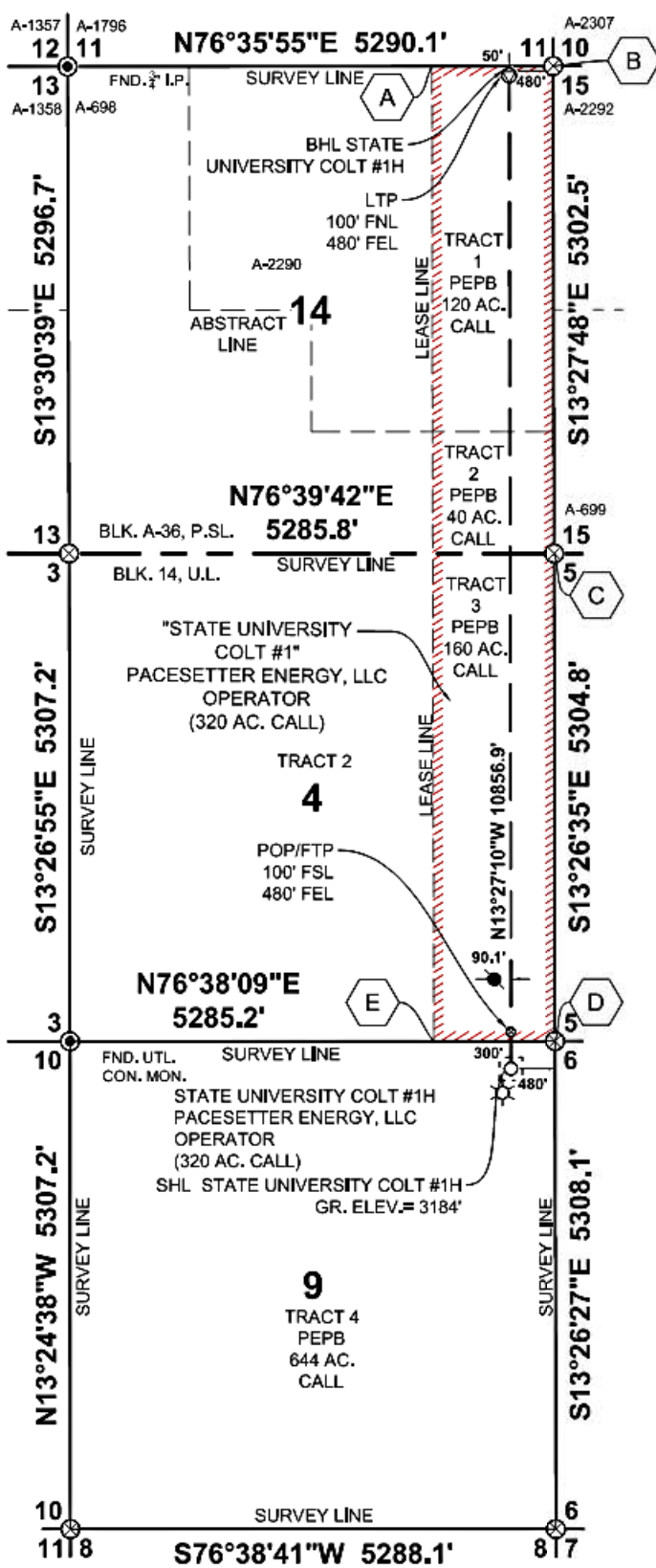




Operator		Field Name		Well name/No.		Rig Name		Job No.		Calculation Method		Minimum Curvature							
Pacesetter Energy		San Andres		State University Colt #1H		Nabors M 30		17-1-0016		Proposed Azimuth		346.55°							
MWD Operator		Dir Supervisor		County		State		Start Date		Depth Reference:		RKB							
Christian Smith		Jerry Howard		Andrews		Texas		13-Sep-15		Tie Into:		GyroMultiShot							
DipA:		60.33		Mag Field:		0.48099		Mag Dec.		6.50°		Total Cor.:		8.77°		Job Service:		Full Service	
Survey	Survey Depth (ft)	Inc. (deg)	Azimuth (deg)	Direction	Course Length (ft)	TVD (ft)	VS (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	0	0.00	0.00	0	0	0.00	0.00	0.00	0.00										
Tie In Gyro	100	0.37	126.94	S 53.1 E	100	100.00	-0.25	0.19	S 0.26 E	0.32	126.94	0.37	0.37	126.94					
Tie In Gyro	200	0.34	142.08	S 37.9 E	100	200.00	-0.77	0.62	S 0.70 E	0.94	131.69	0.10	-0.03	15.14					
Tie In Gyro	300	0.60	144.44	S 35.6 E	100	299.99	-1.52	1.28	S 1.19 E	1.75	137.25	0.26	0.26	2.36					
Tie In Gyro	400	0.63	156.08	S 23.9 E	100	399.99	-2.55	2.21	S 1.71 E	2.80	142.23	0.13	0.03	11.64					
Tie In Gyro	500	0.70	154.43	S 25.6 E	100	499.98	-3.69	3.26	S 2.20 E	3.94	146.03	0.07	0.07	-1.65					
Tie In Gyro	600	0.82	154.77	S 25.2 E	100	599.97	-4.98	4.46	S 2.77 E	5.25	148.19	0.12	0.12	0.34					
Tie In Gyro	700	0.67	156.63	S 23.4 E	100	699.96	-6.26	5.65	S 3.30 E	6.54	149.66	0.15	-0.15	1.86					
Tie In Gyro	800	0.94	171.91	S 8.1 E	100	799.95	-7.65	7.00	S 3.65 E	7.89	152.43	0.34	0.27	15.28					
Tie In Gyro	900	1.05	180.83	S 0.8 W	100	899.94	-9.36	8.72	S 3.75 E	9.50	156.71	0.19	0.11	8.92					
Tie In Gyro	1000	1.12	185.16	S 5.2 W	100	999.92	-11.17	10.61	S 3.65 E	11.22	161.01	0.11	0.07	4.33					
Tie In Gyro	1100	1.22	189.17	S 9.2 W	100	1099.90	-13.08	12.64	S 3.40 E	13.09	164.96	0.13	0.10	4.01					
Tie In Gyro	1200	1.05	192.36	S 12.4 W	100	1199.88	-14.89	14.58	S 3.03 E	14.89	168.26	0.18	-0.17	3.19					
Tie In Gyro	1300	1.00	217.71	S 37.7 W	100	1299.86	-16.26	16.17	S 2.30 E	16.33	171.90	0.45	-0.05	25.35					
Tie In Gyro	1400	0.82	221.04	S 41.0 W	100	1399.85	-17.22	17.40	S 1.30 E	17.45	175.74	0.19	-0.18	3.33					
Tie In Gyro	1500	0.63	214.27	S 34.3 W	100	1499.84	-18.01	18.39	S 0.52 E	18.40	178.39	0.21	-0.19	-6.77					
Tie In Gyro	1600	0.64	242.07	S 62.1 W	100	1599.84	-18.52	19.11	S 0.29 W	19.11	180.86	0.31	0.01	27.80					
Tie In Gyro	1640	0.46	252.20	S 72.2 W	40	1639.84	-18.59	19.26	S 0.64 W	19.27	181.89	0.51	-0.45	25.33					
1	1732	0.70	261.30	S 81.3 W	92	1731.83	-18.57	19.46	S 1.54 W	19.52	184.53	0.28	0.26	9.89					
2	1921	0.60	299.20	N 60.8 W	189	1920.82	-17.80	19.15	S 3.55 W	19.48	190.50	0.23	-0.05	20.05					
3	2109	0.40	346.00	N 14.0 W	188	2108.81	-16.48	18.04	S 4.57 W	18.60	194.21	0.23	-0.11	24.89					
4	2298	0.60	8.90	N 8.9 E	189	2297.81	-14.90	16.42	S 4.57 W	17.04	195.56	0.15	0.11	12.12					
5	2487	0.60	30.50	N 30.5 E	189	2486.80	-13.28	14.59	S 3.92 W	15.10	195.03	0.12	0.00	11.43					
6	2674	0.60	29.10	N 29.1 E	187	2673.79	-11.85	12.89	S 2.94 W	13.22	192.87	0.01	0.00	-0.75					
7	2861	0.40	1.50	N 1.5 E	187	2860.78	-10.50	11.38	S 2.45 W	11.64	192.16	0.16	-0.11	-14.76					
8	3046	0.50	344.60	N 15.4 W	185	3045.77	-9.07	9.96	S 2.65 W	10.30	194.90	0.09	0.05	-9.14					
9	3236	0.70	8.10	N 8.1 E	190	3235.76	-7.16	8.01	S 2.71 W	8.45	198.67	0.16	0.11	12.37					
10	3425	0.40	21.30	N 21.3 E	189	3424.75	-5.54	6.25	S 2.30 W	6.66	200.23	0.17	-0.16	6.98					
12	3615	0.20	21.30	N 21.3 E	190	3614.75	-4.73	5.32	S 1.94 W	5.67	200.04	0.11	-0.11	0.00					
13	3804	0.30	29.90	N 29.9 E	189	3803.75	-4.09	4.59	S 1.58 W	4.85	198.95	0.06	0.05	4.55					
14	3835	1.30	9.20	N 9.2 E	31	3834.75	-3.71	4.17	S 1.48 W	4.42	199.52	3.31	3.23	-66.77					
15	3867	4.50	0.10	N 0.1 E	32	3866.70	-2.16	2.56	S 1.42 W	2.92	209.03	10.07	10.00	-28.44					
16	3898	7.70	359.30	N 0.7 W	31	3897.52	1.05	0.74	N 1.44 W	1.62	297.11	10.33	10.32	-2.58					
17	3928	11.10	358.60	N 1.4 W	30	3927.11	5.84	5.64	N 1.54 W	5.84	344.75	11.34	11.33	-2.33					
18	3960	13.70	358.30	N 1.7 W	32	3958.37	12.56	12.50	N 1.72 W	12.62	352.15	8.13	8.13	-0.94					
19	3992	15.90	355.90	N 4.1 W	32	3989.30	20.60	20.67	N 2.15 W	20.78	354.06	7.14	6.88	-7.50					
20	4023	19.00	353.00	N 7.0 W	31	4018.87	29.81	29.91	N 3.07 W	30.07	354.14	10.38	10.00	-9.35					
21	4055	22.10	352.30	N 7.7 W	32	4048.83	40.97	41.05	N 4.51 W	41.30	353.73	9.72	9.69	-2.19					
22	4086	25.10	351.30	N 8.7 W	31	4077.24	53.33	53.33	N 6.29 W	53.70	353.28	9.76	9.68	-3.23					
23	4117	27.60	350.30	N 9.7 W	31	4105.01	67.05	66.91	N 8.49 W	67.45	352.77	8.19	8.06	-3.23					
24	4149	30.20	349.90	N 10.1 W	32	4133.03	82.49	82.14	N 11.15 W	82.90	352.27	8.15	8.12	-1.25					
25	4181	32.70	349.70	N 10.3 W	32	4160.32	99.15	98.58	N 14.11 W	99.58	351.85	7.82	7.81	-0.62					
26	4212	35.80	350.30	N 9.7 W	31	4185.94	116.57	115.76	N 17.14 W	117.02	351.58	10.06	10.00	1.94					
27	4243	38.80	350.90	N 9.1 W	31	4210.60	135.30	134.29	N 20.20 W	135.80	351.45	9.75	9.68	1.94					
28	4275	42.70	351.00	N 9.0 W	32	4234.84	156.13	154.91	N 23.48 W	156.68	351.38	12.19	12.19	0.31					
29	4306	46.40	350.20	N 9.8 W	31	4256.93	177.81	176.36	N 27.04 W	178.42	351.28	12.07	11.94	-2.58					
30	4338	49.30	347.90	N 12.1 W	32	4278.40	201.51	199.65	N 31.56 W	202.13	351.02	10.51	9.06	-7.19					
31	4369	52.00	345.80	N 14.2 W	31	4298.06	225.48	222.98	N 37.02 W	226.04	350.57	10.16	8.71	-6.77					
32	4400	53.50	345.30	N 14.7 W	31	4316.82	250.15	246.88	N 43.18 W	250.63	350.08	5.01	4.84	-1.61					
33	4432	55.30	345.20	N 14.8 W	32	4335.45	276.16	272.04	N 49.80 W	276.56	349.63	5.63	5.62	-0.31					
34	4464	57.40	345.00	N 15.0 W	32	4353.18	302.79	297.78	N 56.65 W	303.12	349.23	6.58	6.56	-0.62					
35	4495	59.20	345.50	N 14.5 W	31	4369.47	329.16	323.28	N 63.36 W	329.44	348.91	5.97	5.81	1.61					
36	4527	61.20	346.20	N 13.8 W	32	4385.37	356.92	350.21	N 70.15 W	357.17	348.67	6.53	6.25	2.19					
37	4558	62.60	346.90	N 13.1 W	31	4399.97	384.27	376.81	N 76.51 W	384.49	348.52	4.94	4.52	2.26					
38	4590	64.70	347.30	N 12.7 W	32	4414.17	412.94	404.76	N 82.91 W	413.16	348.42	6.66	6.56	1.25					
39	4622	66.70	347.80	N 12.2 W	32	4427.34	442.10	433.23	N 89.20 W	442.32	348.37	6.41	6.25	1.56					
40	4653	70.20	348.40	N 11.6 W	31	4438.73	470.92	461.44	N 95.14 W	471.15	348.35	11.43	11.29	1.94					
41	4684	74.00	349.60	N 10.4 W	31	4448.25	500.38	490.39	N 100.76 W	500.64	348.39	12.80	12.26	3.87					
42	4715	76.80	350.10	N 9.9 W	31	4456.07	530.33	519.92	N 106.05 W	530.63	348.47	9.17	9.03	1.61					
43	4747	80.00	347.70	N 12.3 W	32	4462.50	561.64	550.67	N 112.09 W	561.96	348.49	12.41	10.00	-7.50					
44	4778	83.50	345.00	N 15.0 W	31	4466.95	592.31	580.48	N 119.33 W	592.62	348.38	14.20	11.29	-8.71					
45	4809	87.80	343.90	N 16.1 W	31	4469.30	623.19	610.25	N 127.61 W	623.45	348.19	14.31	13.87	-3.55					
46	4841	89.80	343.40	N 16.6 W	32	4469.97	655.14	640.95	N 136.62 W	655.35	347.97	6.44	6.25	-1.56					
47	4936	90.20	342.50	N 17.5 W	95	446													

64	6534	90.40	347.20	N 12.8 W	95	4467.19	2347.43	2281.54	N	552.32	W	2347.44	346.39	0.33	0.11	0.32
65	6629	90.50	346.80	N 13.2 W	95	4466.44	2442.43	2374.10	N	573.69	W	2442.43	346.42	0.43	0.11	-0.42
66	6723	89.80	346.70	N 13.3 W	94	4466.20	2536.43	2465.60	N	595.24	W	2536.43	346.43	0.75	-0.74	-0.11
67	6817	89.30	346.70	N 13.3 W	94	4466.93	2630.42	2557.07	N	616.86	W	2630.43	346.44	0.53	-0.53	0.00
68	6912	89.20	345.50	N 14.5 W	95	4468.18	2725.41	2649.28	N	639.68	W	2725.42	346.43	1.27	-0.11	-1.26
69	7006	89.80	346.40	N 13.6 W	94	4469.00	2819.40	2740.47	N	662.50	W	2819.41	346.41	1.15	0.64	0.96
70	7101	90.30	346.40	N 13.6 W	95	4468.92	2914.40	2832.80	N	684.84	W	2914.41	346.41	0.53	0.53	0.00
71	7196	90.60	347.30	N 12.7 W	95	4468.17	3009.39	2925.31	N	706.45	W	3009.40	346.42	1.00	0.32	0.95
72	7291	91.00	347.40	N 12.6 W	95	4466.84	3104.37	3017.99	N	727.25	W	3104.38	346.45	0.43	0.42	0.11
73	7386	89.80	347.40	N 12.6 W	95	4466.18	3199.36	3110.70	N	747.98	W	3199.36	346.48	1.26	-1.26	0.00
74	7481	89.90	347.60	N 12.4 W	95	4466.43	3294.35	3203.45	N	768.54	W	3294.35	346.51	0.24	0.11	0.21
75	7576	89.30	347.80	N 12.2 W	95	4467.09	3389.32	3296.26	N	788.78	W	3389.32	346.54	0.67	-0.63	0.21
76	7670	88.80	347.60	N 12.4 W	94	4468.65	3483.29	3388.09	N	808.80	W	3483.29	346.57	0.57	-0.53	-0.21
77	7765	89.40	347.70	N 12.3 W	95	4470.14	3578.26	3480.88	N	829.11	W	3578.26	346.60	0.64	0.63	0.11
78	7861	91.70	348.00	N 12.0 W	96	4469.22	3674.23	3574.72	N	849.32	W	3674.23	346.63	2.42	2.40	0.31
79	7956	93.00	348.20	N 11.8 W	95	4465.33	3769.11	3667.60	N	868.89	W	3769.12	346.67	1.38	1.37	0.21
80	8050	92.90	346.40	N 13.6 W	94	4460.49	3862.97	3759.18	N	889.53	W	3862.99	346.69	1.92	-0.11	-1.91
81	8145	91.60	345.80	N 14.2 W	95	4456.76	3957.90	3851.32	N	912.33	W	3957.90	346.67	1.51	-1.37	-0.63
82	8240	92.10	345.80	N 14.2 W	95	4453.69	4052.84	3943.37	N	935.62	W	4052.84	346.65	0.53	0.53	0.00
83	8334	92.00	346.00	N 14.0 W	94	4450.33	4146.77	4034.48	N	958.51	W	4146.78	346.64	0.24	-0.11	0.21
84	8429	90.30	345.30	N 14.7 W	95	4448.42	4241.74	4126.49	N	982.05	W	4241.74	346.61	1.94	-1.79	-0.74
85	8524	90.00	344.20	N 15.8 W	95	4448.17	4336.69	4218.14	N	1007.03	W	4336.69	346.57	1.20	-0.32	-1.16
86	8617	91.40	346.20	N 13.8 W	93	4447.04	4429.65	4308.05	N	1030.79	W	4429.65	346.54	2.62	1.51	2.15
87	8712	92.90	346.40	N 13.6 W	95	4443.47	4524.58	4400.27	N	1053.27	W	4524.58	346.54	1.59	1.58	0.21
88	8806	91.30	346.40	N 13.6 W	94	4440.03	4618.51	4491.57	N	1075.36	W	4618.51	346.54	1.70	-1.70	0.00
90	8901	89.00	346.00	N 14.0 W	95	4439.78	4713.50	4583.83	N	1098.02	W	4713.50	346.53	2.46	-2.42	-0.42
90	8996	90.30	347.40	N 12.6 W	95	4440.36	4808.50	4676.27	N	1119.87	W	4808.50	346.53	2.01	1.37	1.47
91	9091	89.50	347.50	N 12.5 W	95	4440.53	4903.48	4769.00	N	1140.51	W	4903.48	346.55	0.85	-0.84	0.11
92	9185	88.70	346.40	N 13.6 W	94	4442.00	4997.47	4860.56	N	1161.74	W	4997.47	346.56	1.45	-0.85	-1.17
93	9278	89.50	345.80	N 14.2 W	93	4443.46	5090.45	4950.82	N	1184.07	W	5090.45	346.55	1.08	0.86	-0.65
94	9372	90.50	346.00	N 14.0 W	94	4443.46	5184.44	5041.99	N	1206.97	W	5184.44	346.54	1.08	1.06	0.21
95	9467	89.90	346.70	N 13.3 W	95	4443.13	5279.44	5134.31	N	1229.39	W	5279.44	346.53	0.97	-0.63	0.74
96	9562	89.80	346.50	N 13.5 W	95	4443.38	5374.44	5226.72	N	1251.41	W	5374.44	346.54	0.24	-0.11	-0.21
97	9657	87.90	345.20	N 14.8 W	95	4445.29	5469.41	5318.81	N	1274.62	W	5469.41	346.52	2.42	-2.00	-1.37
98	9751	89.00	345.60	N 14.4 W	94	4447.83	5563.35	5409.74	N	1298.31	W	5563.36	346.50	1.25	1.17	0.43
99	9846	90.10	345.50	N 14.5 W	95	4448.58	5658.33	5501.73	N	1322.01	W	5658.34	346.49	1.16	1.16	-0.11
100	9941	89.20	346.40	N 13.6 W	95	4449.16	5753.33	5593.89	N	1345.08	W	5753.33	346.48	1.34	-0.95	0.95
101	10036	90.00	346.40	N 13.6 W	95	4449.82	5848.32	5686.22	N	1367.41	W	5848.33	346.48	0.84	0.84	0.00
102	10131	90.10	348.30	N 11.7 W	95	4449.74	5943.31	5778.91	N	1388.22	W	5943.31	346.49	2.00	0.11	2.00
103	10225	88.90	347.50	N 12.5 W	94	4450.56	6037.28	5870.82	N	1407.92	W	6037.28	346.51	1.53	-1.28	-0.85
104	10320	89.70	347.00	N 13.0 W	95	4451.72	6132.26	5963.47	N	1428.89	W	6132.26	346.53	0.99	0.84	-0.53
105	10414	89.20	346.80	N 13.2 W	94	4452.62	6226.25	6055.01	N	1450.19	W	6226.26	346.53	0.57	-0.53	-0.21
106	10509	89.40	345.20	N 14.8 W	95	4453.78	6321.24	6147.18	N	1473.17	W	6321.24	346.52	1.70	0.21	-1.68
107	10604	90.00	344.50	N 15.5 W	95	4454.28	6416.20	6238.88	N	1498.00	W	6416.20	346.50	0.97	0.63	-0.74
108	10699	89.40	345.90	N 14.1 W	95	4454.78	6511.17	6330.72	N	1522.26	W	6511.17	346.48	1.60	-0.63	1.47
109	10793	90.30	345.10	N 14.9 W	94	4455.02	6605.15	6421.73	N	1545.80	W	6605.16	346.47	1.28	0.96	-0.85
110	10888	89.80	346.60	N 13.4 W	95	4454.94	6700.14	6513.84	N	1569.02	W	6700.15	346.46	1.66	-0.53	1.58
111	10982	89.40	346.40	N 13.6 W	94	4455.60	6794.14	6605.24	N	1590.97	W	6794.14	346.46	0.48	-0.43	-0.21
112	11077	90.20	346.20	N 13.8 W	95	4455.93	6889.13	6697.54	N	1613.46	W	6889.14	346.46	0.87	0.84	-0.21
113	11168	89.70	347.50	N 12.5 W	91	4456.01	6980.13	6786.15	N	1634.17	W	6980.14	346.46	1.53	-0.55	1.43
114	11260	89.60	347.50	N 12.5 W	92	4456.57	7072.11	6875.97	N	1654.08	W	7072.12	346.47	0.11	-0.11	0.00
115	11351	90.20	347.10	N 12.9 W	91	4456.73	7163.11	6964.74	N	1674.08	W	7163.11	346.48	0.79	0.66	-0.44
116	11443	89.30	347.60	N 12.4 W	92	4457.13	7255.10	7054.50	N	1694.23	W	7255.10	346.50	1.12	-0.98	0.54
117	11534	89.70	347.10	N 12.9 W	91	4457.92	7346.08	7143.29	N	1714.16	W	7346.08	346.51	0.70	0.44	-0.55
118	11627	90.90	347.20	N 12.8 W	93	4457.44	7439.07	7233.96	N	1734.84	W	7439.08	346.51	1.29	1.29	0.11
119	11722	89.40	346.20	N 13.8 W	95	4457.19	7534.07	7326.41	N	1756.70	W	7534.07	346.52	1.90	-1.58	-1.05
120	11817	88.90	347.10	N 12.9 W	95	4458.60	7629.06	7418.83	N	1778.63	W	7629.06	346.52	1.08	-0.53	0.95
121	11911	89.80	347.10	N 12.9 W	94	4459.66	7723.05	7510.45	N	1799.61	W	7723.05	346.53	0.96	0.96	0.00
122	12006	90.00	347.40	N 12.6 W	95	4459.83	7818.04	7603.11	N	1820.58	W	7818.04	346.53	0.38	0.21	0.32
123	12101	88.60	347.10	N 12.9 W	95	4460.99	7913.02	7695.76	N	1841.54	W	7913.02	346.54	1.51	-1.47	-0.32
124	12196	88.40	347.90	N 12.1 W	95	4463.48	8007.98	7788.47	N	1862.10	W	8007.98	346.55	0.87	-0.21	0.84
125	12291	90.40	348.30	N 11.7 W	95	4464.47	8102.93	7881.42	N	1881.68	W	8102.93	346.57	2.15	2.11	0.42
126	12385	89.80	347.40	N 12.6 W	94	4464.31	8196.91	7973.31	N	1901.47	W	8196.91	346.59	1.15	-0.64	-0.96
127	12479	88.70	345.90	N 14.1 W	94	4465.54	8290.89	8064.76	N	1923.17	W	8290.89	346.59	1.98	-1.17	-1.60
128	12574	88.10	345.70	N 14.3 W	95	4468.19	8385.85	8156.82	N	1946.46	W	8385.85	346.58	0.67	-0.63	-0.21
129	12668	88.40	345.00	N 15.0 W	94	4471.06	8479.78	8247.72	N	1970.23	W	8479.78	346.56	0.81	0.32	-0.74
130	12763	89.60	345.30	N 14.7 W	95	4472.72	8574.74	8339.53	N	1994.57	W	8574.74	346.55	1.30	1.26	0.32
131	12857	89.50	345.50	N 14.5 W	94	4473.46	8668.72	8430.49	N	2018.26	W	8668.72	346.54	0.24	-0.11	0.21
132	12952	88.10	345.00	N 15.0 W	95	4475.45	8763.67	8522.34	N	2042.45	W	8763.67	346.52	1.56	-1.47	-0.53
133	13046	88.50	344.70	N 15.3 W	94	4478.23	8857.58	8613.03	N	2067.00	W	8857.59	346.51	0.53	0.43	-0.32
134	13141	88.00	345.50	N 14.5 W	95	4481.14	8952.51	8704.80	N	2091.42	W	8952.51	346.49	0.99	-0.53	0.84
135	13235	88.40	345.00	N 15.0 W	94	4484.09	9046.44	8795.65	N	2115.34	W	9046.45	346.48	0.68	0.43	-0.53
136	13329	88.00	346.00	N 14.0 W	94	4487.04	9140.37	8886.61	N	2138.86	W	9140.38	346.47	1.15	-0.43	1.06
137	13424	88.60	346.80													

SECTION 9, BLOCK 14, UNIVERSITY LANDS SURVEY  
ANDREWS COUNTY, TEXAS



**A.**  
**TXSP-NC (NAD 83)**  
N(Y): = 6851774.7'  
E(X): = 683442.1'  
LAT: = N32°23'38.59\" N  
LON.: = W102°39'51.78\" W  
**TX-NC (NAD 27)**  
N(Y): = 303755.2'  
E(X): = 406685.2'  
LAT: = 32.3939463° N  
LON.: = 102.6639351° W

**B.**  
**TXSP-NC (NAD 83)**  
N(Y): = 6852081.2'  
E(X): = 684728.7'  
LAT: = 32°23'42.12\" N  
LON.: = 102°39'36.92\" W  
**TX-NC (NAD 27)**  
N(Y): = 304049.5'  
E(X): = 407974.5'  
LAT: = 32.3949284° N  
LON.: = 102.6598098° W

**C.**  
**TXSP-NC (NAD 83)**  
N(Y): = 6846924.5'  
E(X): = 685963.2'  
LAT: = 32°22'51.62\" N  
LON.: = 102°39'20.16\" W  
**TX-NC (NAD 27)**  
N(Y): = 298881.4'  
E(X): = 409159.7'  
LAT: = 32.3808991° N  
LON.: = 102.6551535° W

**D.**  
**TXSP-NC (NAD 83)**  
N(Y): = 6841765.0'  
E(X): = 687196.5'  
LAT: = 32°22'01.08\" N  
LON.: = 102°39'03.41\" W  
**TX-NC (NAD 27)**  
N(Y): = 293710.7'  
E(X): = 410343.6'  
LAT: = 32.3668622° N  
LON.: = 102.6505025° W

**E.**  
**TXSP-NC (NAD 83)**  
N(Y): = 6841459.6'  
E(X): = 685910.9'  
LAT: = N32°21'57.56\" N  
LON.: = W102°39'18.25\" W  
**TX-NC (NAD 27)**  
N(Y): = 293417.5'  
E(X): = 409055.2'  
LAT: = 32.3658836° N  
LON.: = 102.6546235° W

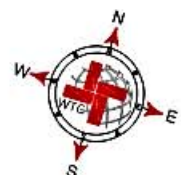
NAD 83, TX-NC, N(Y): = 6841362.3', E(X): = 686799.2', LAT: = 32°21'56.95\" N, LON.: = 102°39'07.85\" W	SURFACE LOCATION
NAD 27, TX-NC, N(Y): = 293311.8', E(X): = 409942.5', LAT: = 32.3657129° N, LON.: = 102.6517367° W	POP/FTP LOCATION
NAD 27, TX-NC, N(Y): = 293506.7', E(X): = 409898.1', LAT: = 32.3662422° N, LON.: = 102.6519112° W	LTP LOCATION
NAD 83, TX-NC, N(Y): = 6851872.7', E(X): = 684285.0', LAT: = 32°23'39.89\" N, LON.: = W102°39'42.00\" W	BOTTOM HOLE LOCATION
NAD 27, TX-NC, N(Y): = 303845.2', E(X): = 407528.9', LAT: = 32.3943074° N, LON.: = 102.6612194° W	
NAD 83, TX-NC, N(Y): = 6851921.3', E(X): = 684273.4', LAT: = 32°23'40.36\" N, LON.: = 102°39'42.16\" W	
NAD 27, TX-NC, N(Y): = 303894.0', E(X): = 407517.8', LAT: = 32.3944397° N, LON.: = 102.6612632° W	

NAME:	GAS WELL	PLUGGED OIL WELL
SHL-SHL	277'	993'

**DRIVING DIRECTIONS:**  
BEGINNING AT THE INTERSECTION OF U.S. HWY. 176 AND NW 2001, ±4.5 MILES NORTH OF ANDREWS, TEXAS; HEAD NORTH ON NW 2001 ±3.3 MILES TO A LEASE ROAD ON THE LEFT. TURN LEFT AND HEAD WEST ±1.0 MILES TO A LEASE ROAD ON THE LEFT. TURN LEFT AND HEAD SOUTH ±0.4 MILE. THE FLAGGED LOCATION IS ±280 FEET WEST OF EXISTING LEASE ROAD.

**SURVEYOR'S NOTES:**

- SEE DOCUMENTS FILED IN THIS OFFICE WHICH DESCRIBE IN DETAIL THE RECONSTRUCTION OF THESE SECTIONS AND/OR BLOCKS, USING FOUND MONUMENTATION, GLO AND COURTHOUSE DOCUMENTATION.
- NO SURFACE OWNERSHIP WAS PROVIDED OR REQUESTED BY PACESETTER ENERGY, L.L.C. AND NONE WAS RESEARCHED OR PROVIDED BY WEST TEXAS CONSULTANTS, INC.
- BASIS OF BEARINGS, COORDINATES, AND DISTANCES ARE A LAMBERT CONICAL PROJECTION OF THE TEXAS COORDINATE SYSTEM, STATE PLANE GRID, NAD 83, TEXAS NORTH CENTRAL (4202), WITH A CONVERGENCE ANGLE OF -02°16'45.43\", AND A COMBINED SCALE FACTOR OF 0.999793798, BASED ON AN OPUS SOLUTION ON CONTROL POINT LAKE VIEW AT N=6839679.025' - E=678397.801'
- THIS LOCATION IS APPROXIMATELY 7.0 MILES N.60°W. FROM ANDREWS, TEXAS.



I, THE UNDERSIGNED, DO HEREBY CERTIFY THAT THE SURVEY INFORMATION FOUND ON THIS PERMIT PLAT WAS DERIVED FROM FIELD NOTES OR ELECTRONIC DATA OF AN ACTUAL ON-THE-GROUND SURVEY MADE BY ME OR UNDER MY SUPERVISION AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. NO WARRANTY IS MADE OR INTENDED FOR THE LOCATION OF ANY OR ALL EASEMENTS THAT MAY EXIST WITHIN THE BOUNDS OF THIS SURVEY. THE INFORMATION PRESENTED HEREON IS FOR TEXAS RAILROAD COMMISSION PERMITTING ONLY, AND DOES NOT CONSTITUTE OR REPRESENT A COMPLETE BOUNDARY SURVEY AS DEFINED BY THE T.B.P.L.S., "PROFESSIONAL LAND SURVEYING PRACTICES ACT." IF THERE ARE ANY ALTERATIONS MADE, (HAND DRAWN OR HANDWRITTEN ADDITIONS) THIS SURVEYOR IS NO LONGER RESPONSIBLE FOR THE VALIDITY OF THIS PLAT.

*Gregory W. Shoults*  
GREGORY W. SHOULTS RPLS #5356  
SURVEY DATE: 05/31/2017  
JOB NO.: 51912  
DATE: 07/07/2017  
DRAFT: M.Y.  
SHEET: 1 OF 1

STATE UNIVERSITY COLT #1H  
SHL AT 300' FROM NORTH LINE AND  
480' FROM EAST LINE  
SECTION 9, BLOCK 14, UNIVERSITY LANDS SURVEY  
ANDREWS COUNTY, TEXAS.

**WTC, INC.**  
406 S.W. 1st, STREET  
ANDREWS, TEXAS 79714  
(432) 523-2181  
TEXAS REGISTERED ENGINEERING FIRM F-2746  
TEXAS REGISTERED SURVEYOR FIRM #100792-00



Directional Services  
1600 South County Road 1310  
Odessa, Texas 79765  
713-325-6100

State of TEXAS

County of Andrews

I, *Christian Smith* certify that; I am employed by *C & J Energy Services Directional*; that I did on the day(s) of 9/14/17 through 9/29/17 conduct or supervise the taking of MWD survey(s) from a depth of 1732 feet to a depth of 14610 feet; that the data is true, correct, complete and within the limitations of the tool set forth by *C & J Energy Directional Services* (Operator # 120531); that I am authorized and qualified to make this report; that this report was conducted at the request of *Pacesetter Energy* for the *State University Colt #1H* Well, API # 42-003-47606 and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by *C & J Energy Services Directional*

*Christian Smith*  
MWD Supervisor SR