XTO

SURVEY REPORT

FULLERTON CLEARFORK UNIT #7520 RENEGADE #62 4/26/2017



Scientific Drilling

The **Ultimate Partner** In Wellbore Placement

CUSTOMER	**XTO**	SDI JOB NO.	**OP.000935**
PROJECT	**Fullerton Clearfork Unit #7520**	SDI DISTRICT	**Midland**
FIELD	**Fullerton Clearfork Unit #7520**	SDI KIT/UNIT	

SITE INFORMATION

Site Name	**Fullerton Clearfork Unit #7520**	Section	
Lat/Long	**32.3996598° N, 102.81184° W**	Township	
Northing	**308,106.06 ft**	Range	
Easting	**361,194.53 ft**		

MAP INFORMATION

North Reference	**Grid North**
Grid Correction	**2.90 deg**
System	**US State Plane 1927**
Datum	**North American Datum 1927 (Clarke 1866)**
Map Zone	**Texas North Central: 4202**



WELL INFORMATION

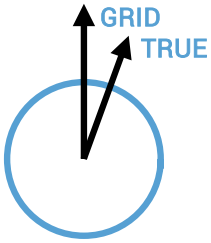
Lat/Long	**32.3996598° N, 102.81184° W**
Northing	**308,106.06 ft**
Easting	**361,194.53 ft**
UWI	**42-003-47444**

DEPTH AND ELEVATION REFERENCE

Ground Level	**3306 ft above Mean Sea Level**
Reference Datum	**KB**
Reference Height	**0 ft above G.L.**
Reference Elevation	**3306 ft**

VERTICAL SECTION REFERENCE

+N/-S	**0 ft**
+E/-W	**0 ft**
Proposal Direction	**30.65°**
Calculation Method	**Minimum Curvature**



LOCAL GRAVITY REFERENCE INFORMATION

Local Gravity	**998.527 mG** [computed]
True to Grid	**add 2.9°**

WELL NOTES

Keeper Gyro Survey ran in 5 1/2" Casing to 7,246'

OPERATORS

C. Booher

SDI Operator Name (Printed) SIGNATURE DATE

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MD	INC	AZIM	TVD	+N/-S	+E/-W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	°/100ft	ft	deg
0.00	0.00	0.00	0.00	0.00	0.00	Invalid	0.00	0.00
100.00	0.44	303.09	100.00	0.21	-0.32	0.44	0.39	303.09
125.00	0.29	296.01	125.00	0.29	-0.46	0.65	0.55	302.28
150.00	0.51	301.47	150.00	0.38	-0.61	0.91	0.72	301.61
175.00	0.54	298.60	175.00	0.49	-0.81	0.14	0.95	301.22
200.00	0.54	298.96	200.00	0.61	-1.02	0.02	1.18	300.74
225.00	0.54	296.40	224.99	0.71	-1.23	0.10	1.42	300.23
250.00	0.51	295.80	249.99	0.82	-1.43	0.11	1.65	299.66
275.00	0.49	294.14	274.99	0.91	-1.63	0.10	1.87	299.11
300.00	0.45	291.20	299.99	0.99	-1.82	0.17	2.07	298.48
325.00	0.42	297.90	324.99	1.07	-1.99	0.25	2.26	298.14
350.00	0.38	300.50	349.99	1.15	-2.15	0.17	2.43	298.21
375.00	0.42	299.25	374.99	1.24	-2.30	0.14	2.61	298.32
400.00	0.45	300.33	399.99	1.33	-2.46	0.13	2.80	298.42
425.00	0.46	297.70	424.99	1.43	-2.63	0.10	2.99	298.46
450.00	0.46	296.35	449.99	1.52	-2.81	0.05	3.19	298.37
475.00	0.50	295.30	474.99	1.61	-3.00	0.19	3.40	298.21
500.00	0.46	295.04	499.99	1.70	-3.19	0.16	3.61	298.03
525.00	0.43	294.00	524.99	1.78	-3.36	0.13	3.81	297.86
550.00	0.43	298.32	549.98	1.86	-3.53	0.13	3.99	297.78
575.00	0.39	300.49	574.98	1.95	-3.69	0.19	4.17	297.84
600.00	0.38	301.48	599.98	2.04	-3.83	0.03	4.34	297.97
625.00	0.36	306.65	624.98	2.13	-3.97	0.17	4.50	298.18
650.00	0.40	304.29	649.98	2.22	-4.10	0.17	4.67	298.44
675.00	0.43	304.74	674.98	2.32	-4.25	0.12	4.85	298.66
700.00	0.44	302.82	699.98	2.43	-4.41	0.07	5.03	298.86
725.00	0.42	301.78	724.98	2.53	-4.57	0.08	5.22	298.98
750.00	0.42	299.24	749.98	2.62	-4.73	0.08	5.40	299.03
775.00	0.41	298.24	774.98	2.71	-4.88	0.04	5.58	299.02
800.00	0.45	295.70	799.98	2.79	-5.05	0.19	5.77	298.95
825.00	0.37	294.34	824.98	2.87	-5.21	0.32	5.95	298.84
850.00	0.29	287.48	849.98	2.92	-5.35	0.36	6.09	298.66

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MD	INC	AZIM	TVD	+N/-S	+E/-W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	°/100ft	ft	deg
875.00	0.25	284.67	874.98	2.95	-5.46	0.19	6.21	298.43
900.00	0.28	284.09	899.98	2.98	-5.57	0.13	6.32	298.17
925.00	0.29	292.27	924.98	3.02	-5.69	0.16	6.44	297.99
950.00	0.24	284.31	949.98	3.06	-5.80	0.23	6.55	297.82
975.00	0.26	282.17	974.98	3.08	-5.90	0.08	6.66	297.58
1000.00	0.27	281.40	999.98	3.11	-6.01	0.03	6.77	297.32
1025.00	0.28	277.50	1024.97	3.13	-6.13	0.08	6.88	297.01
1050.00	0.29	276.99	1049.97	3.14	-6.26	0.06	7.00	296.67
1075.00	0.30	278.66	1074.97	3.16	-6.38	0.04	7.12	296.34
1100.00	0.26	272.16	1099.97	3.17	-6.50	0.19	7.24	295.99
1125.00	0.21	246.39	1124.97	3.16	-6.60	0.47	7.32	295.54
1150.00	0.15	254.47	1149.97	3.13	-6.68	0.24	7.37	295.11
1175.00	0.17	248.09	1174.97	3.11	-6.74	0.09	7.42	294.73
1200.00	0.17	241.23	1199.97	3.07	-6.81	0.08	7.47	294.30
1225.00	0.13	232.05	1224.97	3.04	-6.86	0.17	7.51	293.88
1250.00	0.12	227.60	1249.97	3.00	-6.91	0.06	7.53	293.50
1275.00	0.09	219.90	1274.97	2.97	-6.94	0.15	7.55	293.18
1300.00	0.08	237.21	1299.97	2.95	-6.96	0.10	7.56	292.93
1325.00	0.18	275.59	1324.97	2.94	-7.02	0.52	7.61	292.74
1350.00	0.11	188.55	1349.97	2.92	-7.06	0.82	7.64	292.48
1375.00	0.08	227.62	1374.97	2.89	-7.08	0.27	7.64	292.18
1400.00	0.15	178.31	1399.97	2.84	-7.09	0.46	7.64	291.83
1425.00	0.14	180.60	1424.97	2.78	-7.09	0.04	7.61	291.38
1450.00	0.17	181.32	1449.97	2.71	-7.09	0.11	7.59	290.89
1475.00	0.18	178.13	1474.97	2.63	-7.09	0.06	7.56	290.34
1500.00	0.17	183.72	1499.97	2.55	-7.09	0.10	7.54	289.80
1525.00	0.15	197.61	1524.97	2.49	-7.10	0.17	7.53	289.28
1550.00	0.19	207.06	1549.97	2.42	-7.13	0.20	7.53	288.73
1575.00	0.19	206.81	1574.97	2.34	-7.17	0.01	7.54	288.11
1600.00	0.19	202.37	1599.97	2.27	-7.21	0.06	7.55	287.48
1625.00	0.16	209.35	1624.97	2.20	-7.24	0.14	7.57	286.91
1650.00	0.14	225.50	1649.97	2.15	-7.28	0.20	7.59	286.44

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MD	INC	AZIM	TVD	+N/-S	+E/-W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	°/100ft	ft	deg
1675.00	0.12	256.10	1674.97	2.12	-7.32	0.28	7.62	286.15
1700.00	0.12	292.29	1699.97	2.12	-7.37	0.30	7.67	286.07
1725.00	0.16	24.76	1724.97	2.17	-7.38	0.82	7.69	286.35
1750.00	0.27	42.17	1749.97	2.24	-7.33	0.51	7.66	287.01
1775.00	0.32	44.55	1774.97	2.33	-7.24	0.18	7.61	287.87
1800.00	0.35	37.17	1799.97	2.44	-7.15	0.21	7.55	288.88
1825.00	0.33	40.50	1824.97	2.56	-7.05	0.09	7.50	289.95
1850.00	0.33	41.65	1849.97	2.67	-6.96	0.03	7.45	291.00
1875.00	0.34	49.34	1874.97	2.77	-6.85	0.19	7.39	292.04
1900.00	0.34	49.25	1899.97	2.87	-6.74	0.02	7.32	293.07
1925.00	0.36	41.67	1924.97	2.98	-6.63	0.21	7.27	294.19
1950.00	0.36	44.06	1949.97	3.09	-6.52	0.06	7.22	295.37
1975.00	0.36	41.49	1974.97	3.21	-6.42	0.07	7.17	296.57
2000.00	0.37	44.49	1999.97	3.33	-6.31	0.09	7.13	297.81
2025.00	0.41	40.29	2024.97	3.45	-6.19	0.19	7.09	299.14
2050.00	0.52	41.86	2049.97	3.61	-6.06	0.44	7.05	300.76
2075.00	0.52	37.80	2074.96	3.78	-5.91	0.15	7.02	302.59
2100.00	0.57	37.73	2099.96	3.97	-5.77	0.17	7.00	304.53
2125.00	0.66	42.25	2124.96	4.17	-5.59	0.41	6.98	306.71
2150.00	0.66	40.97	2149.96	4.39	-5.40	0.06	6.96	309.06
2175.00	0.67	40.24	2174.96	4.61	-5.22	0.06	6.96	311.45
2200.00	0.87	46.91	2199.96	4.85	-4.98	0.86	6.95	314.22
2225.00	0.96	50.97	2224.95	5.11	-4.68	0.45	6.93	317.50
2250.00	1.05	53.32	2249.95	5.38	-4.33	0.39	6.91	321.13
2275.00	1.27	53.98	2274.94	5.68	-3.93	0.90	6.90	325.33
2300.00	1.31	55.79	2299.94	6.00	-3.47	0.21	6.93	330.00
2325.00	1.42	56.00	2324.93	6.33	-2.97	0.44	7.00	334.86
2350.00	1.47	55.67	2349.92	6.69	-2.45	0.21	7.12	339.87
2375.00	1.47	56.14	2374.91	7.05	-1.92	0.05	7.31	344.75
2400.00	1.49	56.19	2399.91	7.41	-1.39	0.06	7.54	349.41
2425.00	1.58	57.53	2424.90	7.77	-0.83	0.39	7.82	353.93
2450.00	1.63	55.13	2449.89	8.16	-0.24	0.36	8.16	358.29

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MD	INC	AZIM	TVD	+N/-S	+E/-W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	°/100ft	ft	deg
2475.00	1.63	54.41	2474.88	8.57	0.34	0.09	8.58	2.26
2500.00	1.64	55.08	2499.87	8.98	0.92	0.08	9.03	5.84
2525.00	1.67	55.27	2524.86	9.39	1.51	0.15	9.51	9.14
2550.00	1.64	54.30	2549.85	9.81	2.10	0.16	10.03	12.10
2575.00	1.67	55.01	2574.84	10.23	2.69	0.14	10.58	14.75
2600.00	1.77	55.10	2599.82	10.66	3.31	0.40	11.16	17.24
2625.00	1.74	54.78	2624.81	11.10	3.94	0.15	11.78	19.52
2650.00	1.74	55.23	2649.80	11.53	4.56	0.06	12.40	21.56
2675.00	1.75	54.72	2674.79	11.97	5.18	0.08	13.04	23.40
2700.00	1.75	55.54	2699.78	12.41	5.81	0.10	13.70	25.08
2725.00	1.75	55.43	2724.77	12.84	6.44	0.02	14.36	26.62
2750.00	1.76	55.67	2749.75	13.28	7.07	0.04	15.04	28.03
2775.00	1.71	54.94	2774.74	13.71	7.69	0.22	15.72	29.30
2800.00	1.73	57.32	2799.73	14.12	8.31	0.30	16.39	30.48
2825.00	1.74	57.14	2824.72	14.53	8.95	0.04	17.07	31.63
2850.00	1.69	56.95	2849.71	14.94	9.58	0.22	17.75	32.66
2875.00	1.65	56.87	2874.70	15.34	10.19	0.15	18.41	33.59
2900.00	1.61	55.97	2899.69	15.73	10.78	0.17	19.07	34.42
2925.00	1.58	55.48	2924.68	16.12	11.35	0.15	19.72	35.16
2950.00	1.59	55.15	2949.67	16.52	11.92	0.05	20.37	35.83
2975.00	1.57	54.11	2974.66	16.91	12.48	0.13	21.02	36.43
3000.00	1.47	50.76	2999.65	17.32	13.01	0.53	21.66	36.92
3025.00	1.29	49.50	3024.64	17.71	13.47	0.76	22.25	37.27
3050.00	1.27	48.96	3049.64	18.07	13.90	0.09	22.79	37.56
3075.00	1.25	47.54	3074.63	18.43	14.31	0.15	23.33	37.81
3100.00	1.22	45.99	3099.63	18.80	14.70	0.18	23.86	38.01
3125.00	1.20	45.77	3124.62	19.17	15.08	0.08	24.39	38.18
3150.00	1.20	46.33	3149.61	19.53	15.45	0.05	24.91	38.35
3175.00	1.18	45.28	3174.61	19.89	15.82	0.12	25.42	38.50
3200.00	1.02	38.88	3199.60	20.25	16.15	0.78	25.90	38.57
3225.00	1.03	38.04	3224.60	20.60	16.42	0.07	26.34	38.57
3250.00	1.06	38.14	3249.60	20.96	16.71	0.09	26.80	38.56

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MD	INC	AZIM	TVD	+N/-S	+E/-W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	°/100ft	ft	deg
3275.00	1.08	38.83	3274.59	21.32	17.00	0.10	27.27	38.56
3300.00	1.10	37.20	3299.59	21.69	17.29	0.15	27.74	38.55
3325.00	1.13	34.89	3324.58	22.09	17.57	0.23	28.22	38.51
3350.00	1.11	30.46	3349.58	22.50	17.84	0.36	28.71	38.41
3375.00	1.13	57.87	3374.57	22.84	18.17	2.12	29.18	38.50
3400.00	1.06	34.43	3399.57	23.16	18.51	1.80	29.65	38.63
3425.00	1.06	32.59	3424.57	23.54	18.76	0.14	30.11	38.55
3450.00	1.07	31.42	3449.56	23.94	19.01	0.10	30.57	38.45
3475.00	1.05	32.66	3474.56	24.33	19.25	0.13	31.03	38.36
3500.00	1.03	30.61	3499.55	24.72	19.49	0.17	31.48	38.26
3525.00	1.03	29.38	3524.55	25.11	19.72	0.09	31.92	38.14
3550.00	1.06	28.93	3549.54	25.50	19.94	0.14	32.37	38.02
3575.00	1.02	28.54	3574.54	25.90	20.16	0.16	32.82	37.89
3600.00	1.03	29.06	3599.54	26.30	20.37	0.06	33.27	37.77
3625.00	1.07	27.67	3624.53	26.70	20.59	0.17	33.72	37.64
3650.00	1.07	27.46	3649.53	27.11	20.81	0.02	34.18	37.50
3675.00	1.07	27.23	3674.52	27.53	21.02	0.02	34.64	37.37
3700.00	1.08	25.18	3699.52	27.95	21.23	0.16	35.10	37.22
3725.00	1.00	23.26	3724.51	28.36	21.42	0.37	35.54	37.05
3750.00	0.91	19.15	3749.51	28.75	21.57	0.45	35.94	36.87
3775.00	0.82	23.33	3774.51	29.10	21.70	0.43	36.30	36.71
3800.00	0.82	24.19	3799.51	29.43	21.85	0.05	36.65	36.59
3825.00	0.83	22.00	3824.50	29.76	21.99	0.13	37.00	36.46
3850.00	0.82	23.44	3849.50	30.09	22.13	0.09	37.35	36.33
3875.00	0.81	21.97	3874.50	30.42	22.26	0.09	37.69	36.20
3900.00	0.85	23.62	3899.50	30.75	22.40	0.19	38.05	36.07
3925.00	0.76	26.27	3924.49	31.07	22.55	0.41	38.39	35.97
3950.00	0.78	25.37	3949.49	31.38	22.70	0.11	38.72	35.88
3975.00	0.79	24.72	3974.49	31.69	22.84	0.05	39.06	35.79
4000.00	0.74	23.75	3999.49	31.99	22.98	0.19	39.39	35.69
4025.00	0.76	21.11	4024.48	32.29	23.11	0.15	39.71	35.58
4050.00	0.73	19.76	4049.48	32.60	23.22	0.14	40.02	35.46

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MD	INC	AZIM	TVD	+N/-S	+E/-W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	°/100ft	ft	deg
4075.00	0.73	20.84	4074.48	32.90	23.33	0.06	40.33	35.34
4100.00	0.69	17.80	4099.48	33.19	23.43	0.24	40.63	35.22
4125.00	0.68	17.63	4124.48	33.47	23.52	0.03	40.91	35.10
4150.00	0.71	17.81	4149.47	33.76	23.62	0.11	41.20	34.97
4175.00	0.73	19.48	4174.47	34.06	23.72	0.12	41.50	34.85
4200.00	0.72	19.91	4199.47	34.36	23.82	0.05	41.81	34.74
4225.00	0.74	16.12	4224.47	34.66	23.92	0.21	42.11	34.61
4250.00	0.73	16.48	4249.47	34.97	24.01	0.04	42.42	34.48
4275.00	0.64	11.82	4274.46	35.26	24.08	0.43	42.70	34.34
4300.00	0.58	13.21	4299.46	35.52	24.14	0.23	42.95	34.21
4325.00	0.56	12.35	4324.46	35.76	24.20	0.10	43.18	34.09
4350.00	0.56	18.72	4349.46	36.00	24.26	0.25	43.41	33.98
4375.00	0.54	17.46	4374.46	36.22	24.34	0.13	43.64	33.90
4400.00	0.56	20.88	4399.46	36.45	24.42	0.16	43.87	33.82
4425.00	0.57	20.29	4424.46	36.68	24.50	0.06	44.11	33.74
4450.00	0.60	20.46	4449.46	36.92	24.59	0.09	44.36	33.67
4475.00	0.58	19.78	4474.45	37.16	24.68	0.07	44.61	33.59
4500.00	0.53	20.65	4499.45	37.39	24.76	0.20	44.85	33.52
4525.00	0.54	18.61	4524.45	37.61	24.84	0.08	45.07	33.45
4550.00	0.50	20.08	4549.45	37.82	24.92	0.18	45.29	33.38
4575.00	0.52	26.31	4574.45	38.03	25.01	0.23	45.51	33.33
4600.00	0.47	31.90	4599.45	38.22	25.11	0.26	45.73	33.31
4625.00	0.55	29.90	4624.45	38.41	25.22	0.32	45.95	33.30
4650.00	0.54	24.26	4649.45	38.62	25.33	0.22	46.19	33.26
4675.00	0.49	26.93	4674.45	38.82	25.43	0.24	46.41	33.23
4700.00	0.51	23.03	4699.45	39.02	25.52	0.17	46.63	33.19
4725.00	0.51	19.65	4724.44	39.23	25.60	0.12	46.84	33.13
4750.00	0.48	31.26	4749.44	39.42	25.70	0.42	47.06	33.10
4775.00	0.54	30.51	4774.44	39.62	25.81	0.24	47.28	33.08
4800.00	0.53	34.91	4799.44	39.81	25.94	0.17	47.52	33.08
4825.00	0.60	33.36	4824.44	40.02	26.07	0.26	47.76	33.09
4850.00	0.65	14.97	4849.44	40.26	26.18	0.83	48.03	33.04

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MD	INC	AZIM	TVD	+N/-S	+E/-W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	°/100ft	ft	deg
4875.00	0.65	25.64	4874.44	40.53	26.28	0.48	48.30	32.96
4900.00	0.55	32.73	4899.44	40.76	26.41	0.49	48.56	32.94
4925.00	0.43	21.84	4924.43	40.95	26.51	0.60	48.78	32.92
4950.00	0.45	32.11	4949.43	41.12	26.59	0.32	48.97	32.90
4975.00	0.45	24.93	4974.43	41.29	26.69	0.23	49.16	32.88
5000.00	0.41	17.42	4999.43	41.46	26.76	0.29	49.35	32.83
5025.00	0.37	16.77	5024.43	41.62	26.81	0.16	49.51	32.78
5050.00	0.32	22.63	5049.43	41.77	26.86	0.23	49.66	32.74
5075.00	0.29	22.30	5074.43	41.89	26.91	0.13	49.79	32.71
5100.00	0.30	18.39	5099.43	42.01	26.95	0.09	49.91	32.68
5125.00	0.35	25.55	5124.43	42.14	27.01	0.27	50.05	32.65
5150.00	0.34	25.29	5149.43	42.28	27.07	0.07	50.20	32.63
5175.00	0.31	8.36	5174.43	42.41	27.11	0.39	50.34	32.59
5200.00	0.28	346.20	5199.43	42.54	27.11	0.47	50.44	32.51
5225.00	0.23	342.75	5224.43	42.64	27.08	0.18	50.51	32.42
5250.00	0.17	18.38	5249.43	42.73	27.07	0.55	50.58	32.36
5275.00	0.17	11.23	5274.43	42.80	27.09	0.09	50.65	32.34
5300.00	0.20	10.34	5299.43	42.88	27.11	0.14	50.73	32.30
5325.00	0.14	347.19	5324.43	42.95	27.11	0.37	50.79	32.26
5350.00	0.15	351.08	5349.43	43.01	27.10	0.06	50.84	32.21
5375.00	0.02	162.32	5374.43	43.04	27.09	0.69	50.86	32.19
5400.00	0.04	82.72	5399.43	43.04	27.10	0.15	50.86	32.20
5425.00	0.06	343.69	5424.43	43.05	27.11	0.30	50.87	32.20
5450.00	0.14	5.95	5449.43	43.09	27.11	0.35	50.91	32.17
5475.00	0.08	269.72	5474.43	43.12	27.09	0.68	50.93	32.14
5500.00	0.02	252.75	5499.43	43.12	27.07	0.25	50.92	32.12
5525.00	0.04	145.58	5524.43	43.11	27.07	0.18	50.91	32.12
5550.00	0.04	249.68	5549.43	43.11	27.07	0.23	50.90	32.13
5575.00	0.05	306.61	5574.43	43.11	27.05	0.18	50.89	32.11
5600.00	0.12	220.64	5599.43	43.10	27.02	0.52	50.87	32.09
5625.00	0.16	220.16	5624.43	43.05	26.98	0.13	50.81	32.08
5650.00	0.13	254.04	5649.43	43.02	26.94	0.35	50.76	32.05

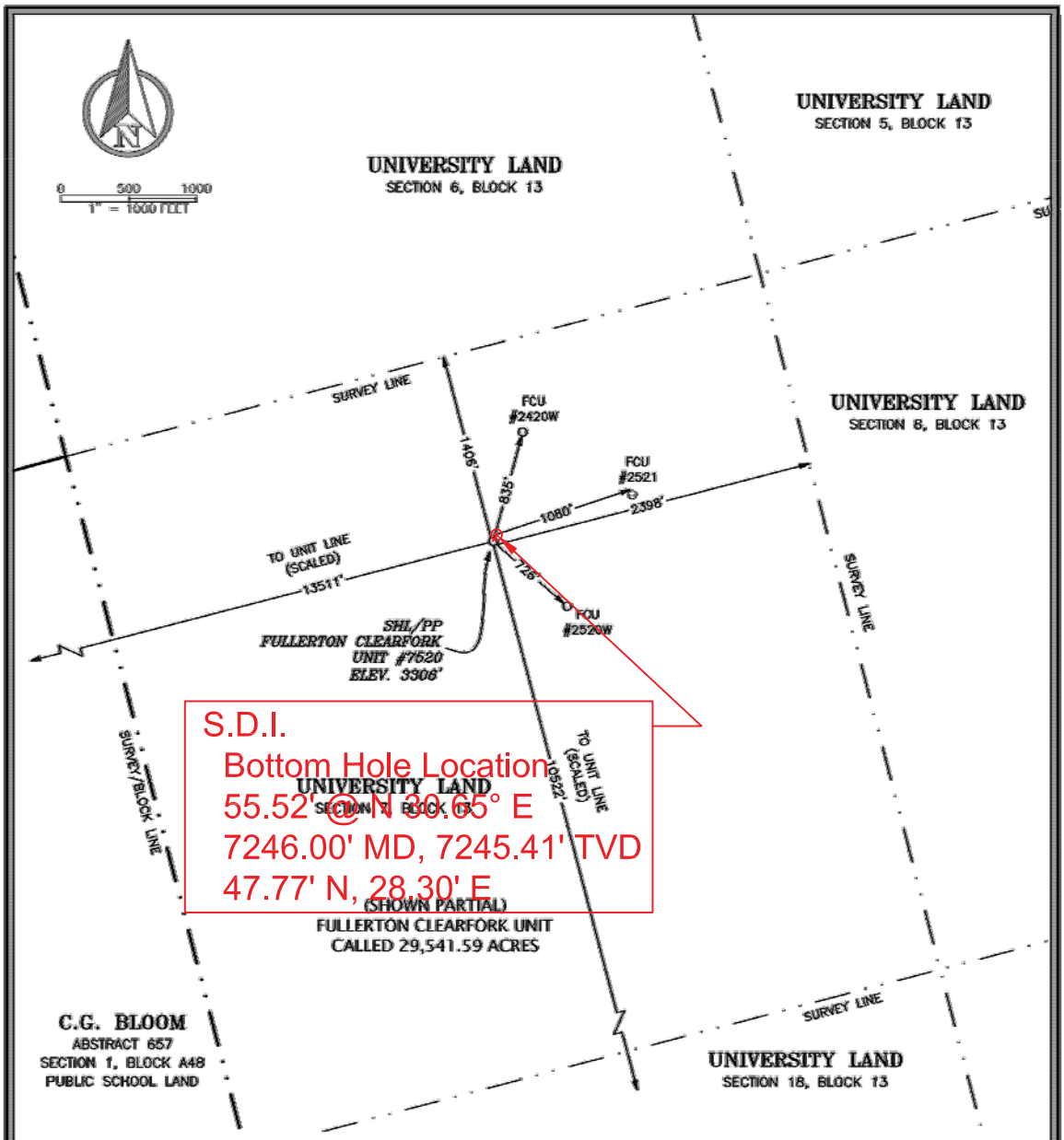
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MD	INC	AZIM	TVD	+N/-S	+E/-W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	°/100ft	ft	deg
5675.00	0.16	255.56	5674.43	43.00	26.88	0.14	50.71	32.01
5700.00	0.18	237.89	5699.43	42.97	26.81	0.23	50.65	31.96
5725.00	0.16	227.92	5724.43	42.93	26.75	0.15	50.58	31.93
5750.00	0.14	237.26	5749.43	42.89	26.70	0.13	50.52	31.90
5775.00	0.13	242.32	5774.43	42.86	26.65	0.07	50.47	31.87
5800.00	0.22	266.17	5799.43	42.84	26.58	0.46	50.42	31.81
5825.00	0.15	271.41	5824.43	42.84	26.50	0.30	50.37	31.74
5850.00	0.10	240.79	5849.43	42.83	26.45	0.32	50.34	31.69
5875.00	0.11	278.99	5874.43	42.82	26.40	0.27	50.31	31.66
5900.00	0.10	252.79	5899.43	42.82	26.36	0.19	50.28	31.62
5925.00	0.09	229.42	5924.43	42.80	26.33	0.16	50.25	31.59
5950.00	0.06	198.76	5949.43	42.78	26.31	0.19	50.22	31.59
5975.00	0.09	350.46	5974.43	42.78	26.30	0.56	50.22	31.58
6000.00	0.18	341.99	5999.43	42.84	26.29	0.38	50.26	31.53
6025.00	0.10	342.42	6024.43	42.90	26.27	0.31	50.30	31.48
6050.00	0.08	10.65	6049.43	42.94	26.26	0.20	50.33	31.45
6075.00	0.18	1.63	6074.43	42.99	26.27	0.38	50.38	31.42
6100.00	0.19	22.84	6099.43	43.07	26.28	0.28	50.46	31.39
6125.00	0.18	34.70	6124.43	43.14	26.32	0.16	50.54	31.39
6150.00	0.21	19.89	6149.43	43.22	26.36	0.22	50.62	31.38
6175.00	0.19	11.50	6174.43	43.30	26.39	0.13	50.71	31.36
6200.00	0.17	2.77	6199.43	43.38	26.40	0.14	50.78	31.32
6225.00	0.14	17.74	6224.43	43.45	26.41	0.22	50.84	31.29
6250.00	0.20	41.27	6249.43	43.51	26.45	0.37	50.92	31.29
6275.00	0.25	30.28	6274.43	43.59	26.50	0.25	51.01	31.30
6300.00	0.23	46.77	6299.43	43.67	26.56	0.28	51.12	31.31
6325.00	0.19	50.30	6324.43	43.73	26.63	0.18	51.20	31.34
6350.00	0.19	44.69	6349.43	43.79	26.69	0.08	51.28	31.37
6375.00	0.15	52.69	6374.43	43.84	26.75	0.18	51.35	31.39
6400.00	0.18	57.32	6399.42	43.88	26.81	0.10	51.42	31.42
6425.00	0.23	38.65	6424.42	43.94	26.87	0.33	51.50	31.45
6450.00	0.18	36.16	6449.42	44.01	26.93	0.19	51.59	31.46

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MD	INC	AZIM	TVD	+N/-S	+E/-W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	°/100ft	ft	deg
6475.00	0.17	67.21	6474.42	44.05	26.98	0.38	51.66	31.49
6500.00	0.29	47.04	6499.42	44.11	27.06	0.55	51.75	31.53
6525.00	0.25	6.55	6524.42	44.21	27.12	0.75	51.86	31.52
6550.00	0.16	345.01	6549.42	44.30	27.11	0.47	51.93	31.47
6575.00	0.21	354.77	6574.42	44.37	27.10	0.24	51.99	31.41
6600.00	0.27	358.02	6599.42	44.48	27.09	0.24	52.08	31.35
6625.00	0.29	344.07	6624.42	44.60	27.08	0.29	52.17	31.26
6650.00	0.28	354.26	6649.42	44.72	27.05	0.21	52.26	31.17
6675.00	0.37	347.31	6674.42	44.86	27.03	0.42	52.37	31.07
6700.00	0.43	2.35	6699.42	45.03	27.01	0.48	52.51	30.96
6725.00	0.40	354.34	6724.42	45.21	27.01	0.26	52.66	30.85
6750.00	0.45	348.39	6749.42	45.40	26.98	0.27	52.81	30.72
6775.00	0.28	5.19	6774.42	45.55	26.97	0.80	52.94	30.62
6800.00	0.31	38.01	6799.42	45.67	27.01	0.68	53.06	30.60
6825.00	0.40	48.79	6824.42	45.78	27.12	0.45	53.21	30.64
6850.00	0.39	60.48	6849.42	45.88	27.26	0.33	53.37	30.72
6875.00	0.36	47.04	6874.42	45.97	27.39	0.37	53.52	30.79
6900.00	0.37	71.03	6899.42	46.05	27.53	0.61	53.65	30.87
6925.00	0.49	62.50	6924.42	46.13	27.70	0.53	53.81	30.98
6950.00	0.41	62.57	6949.42	46.22	27.87	0.33	53.97	31.09
6975.00	0.41	64.45	6974.42	46.30	28.03	0.06	54.13	31.19
7000.00	0.45	43.50	6999.41	46.41	28.18	0.65	54.30	31.27
7025.00	0.41	44.64	7024.41	46.55	28.31	0.16	54.48	31.31
7050.00	0.35	20.58	7049.41	46.68	28.40	0.68	54.64	31.32
7075.00	0.42	15.06	7074.41	46.84	28.45	0.30	54.81	31.28
7100.00	0.39	346.65	7099.41	47.01	28.46	0.80	54.95	31.19
7125.00	0.45	350.57	7124.41	47.19	28.42	0.27	55.09	31.06
7150.00	0.26	327.57	7149.41	47.34	28.38	0.92	55.19	30.94
7175.00	0.25	337.70	7174.41	47.43	28.32	0.19	55.25	30.84
7200.00	0.23	354.95	7199.41	47.53	28.30	0.29	55.32	30.77
7225.00	0.30	10.76	7224.41	47.65	28.31	0.39	55.42	30.71
7246.00	0.36	348.50	7245.41	47.77	28.30	0.68	55.52	30.65

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GENERAL NOTES

1. COORDINATES SHOWN ARE BASED ON TEXAS PLANE COORDINATE SYSTEM OF NAD 27, TEXAS CENTRAL ZONE, 4203.
2. VERTICAL DATUM IS NAVD 88.
3. LATITUDE AND LONGITUDE ARE NAD 27 AS SHOWN.
4. AREA, DISTANCES, AND COORDINATES ARE "GRID".
5. UNITS ARE UNITED STATES SURVEY FOOT.
6. ALL LEASE AND TRACT INFORMATION SHOWN HERE ON IS DONE SO BY LIMITED DEED RECORD INFORMATION ONLY. ALL ACREAGES SHOWN ARE BY DEED AND LEASE CALL, EXCEPT WHERE NOTED. THIS IS NOT IN ANY WAY A "BOUNDARY SURVEY".

DRIVING DIRECTIONS TO LOCATION:
FROM THE INTERSECTION OF MAIN ST. AND BROADWAY ST. IN ANDREWS HEAD WEST ON BROADWAY ST. APPROX. 1.1 MILES. TAKE SLIGHT RIGHT ON RANCH ROAD 87 AND GO APPROX. 15.0 MILES. TURN RIGHT ON NW 7001 AND GO APPROX. 2.2 MILES. TURN RIGHT ON LEASE ROAD AND GO APPROX. 0.6 MILES. TURN RIGHT ON LEASE ROAD AND GO APPROX. 0.1 MILES AND ARRIVE AT THE LOCATION APPROX. 420' ON THE LEFT.

I HEREBY STATE THAT THIS PLAT SHOWS THE SUBJECT SURFACE LOCATION AS STAKED ON THE GROUND.

MARK DILLON HARP
REGISTERED PROFESSIONAL LAND SURVEYOR
STATE OF TEXAS NO. 6445

STATE OF TEXAS
REGISTERED
MARK DILLON HARP
6445
PROFESSIONAL
LAND SURVEYOR

WELL LOCATION INFORMATION:

SURFACE HOLE LOCATION/PP:
NAD 83, TEXAS CENTRAL ZONE COORD'S
Y = 10,845,159.36, X = 1,531,344.97
LAT: N 32.39907°, LONG: W 102.81225°
SHL: 1,406' FNL & 2,398' FEL
SHL: 10,522' PSLL & 13,511' FWLL

NAD 27, TEXAS CENTRAL ZONE COORD'S
Y = 1,002,582.59, X = 1,294,885.24
LAT: N 32.39966°, LONG: W 102.81184°

FOR RRC PURPOSES ONLY:

NAD 27, TEXAS NORTH CENTRAL ZONE COORD'S
Y = 308,106.06, X = 361,194.53
LAT: N 32.39966°, LONG: W 102.81184°

PLAT OF:
A PROPOSED WELL LOCATION FOR:
XTO ENERGY INC.
FULLERTON CLEARFORK UNIT #7520
SITUATED IN UNIVERSITY LAND SURVEY, SECTION 7, BLOCK 13, LOCATED 16.4 MILES NORTHWEST OF ANDREWS, IN ANDREWS COUNTY, TEXAS

FSC INC
SURVEYORS+ENGINEERS
550 Bailey Ave., 205 - Fort Worth, TX 76107
Ph: 817.349.9800 - Fax: 979.732.5271
TBPE Firm 17957 | TBPLS Firm 10193887
www.fscinc.net
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DATE:	8-26-2016
DRAWN BY:	AI
CHECKED BY:	DH
FIELD CREW:	MO/MR
PROJECT NO:	20160806-41
SCALE:	1" = 1000'
SHEET:	1 OF 1
REVISION:	1

Scientific Drilling

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325 S. Faudree Rd. • Odessa, Texas 79761
P. O. Box 9699 • Midland, Texas 79708
Tel: 432-689-5600 • Fax: 432-697-0324

State of Texas
County of Midland

I, Colin Booher, certify that; I am employed by Scientific Drilling International; that I did on the day(s) of 04/26/2017 through 04/26/2017 conduct or supervise the taking of a Keeper Gyro survey from a depth of 100 feet to a depth of 7,246 feet; that the data is true, correct, complete and within the limitations of the tool as set forth by Scientific Drilling International; that I am authorized and qualified to make this report; that this survey was conducted at the request of XTO for the Fullerton Clearfork Unit #7520 Well, API# 42-003-47444 in Andrews County, Texas; and that I have reviewed this report and find that it conforms to the principals and procedures as set forth by Scientific Drilling International.

Colin Booher

Field Technician