

# Survey Report



Company: XTO ENERGY  
 Well: #7AO-1H  
 API or UWI: 42-003-02919  
 State: TX.  
 County: ANDREWS  
 Comment: LEG #1

Location: ANDREWS  
 Rig: KEY #36  
 Job Number: MD0811ESTW353  
 Operator: WESLEY A. VESSELL

Magnetic Declination: 9.890  
 Proposed Azimuth: 317.0  
 North Reference: GRID

## Tiein Survey Data:

Depth	Inclination	Azimuth	TVD	N/-S	E/-W
10,400.00	4.4	149.4	10,395.10	-106.30	-77.80

Depth	Inclination	Azimuth	TVD	N/-S	E/-W	CA	CD	VS	DogLeg
10,418.00	4.3	148.7	10,413.05	-107.47	-77.10	215.7	132.27	-26.02	0.6
10,503.00	30.2	322.4	10,494.64	-92.81	-88.84	223.7	128.48	-7.29	40.6
10,520.00	36.5	324.8	10,508.83	-85.28	-94.37	227.9	127.20	1.99	37.9
10,535.00	42.0	323.6	10,520.44	-77.59	-99.92	232.2	126.51	11.40	37.0
10,552.00	48.4	323.5	10,532.42	-67.89	-107.09	237.6	126.80	23.38	37.6
10,567.00	54.4	324.0	10,541.77	-58.44	-114.02	242.9	128.12	35.01	40.1
10,583.00	61.0	324.6	10,550.31	-47.47	-121.90	248.7	130.82	48.42	41.4
10,598.00	66.7	324.8	10,556.92	-36.48	-129.68	254.3	134.71	61.76	38.0
10,615.00	73.6	325.2	10,562.69	-23.39	-138.84	260.4	140.80	77.58	40.6
10,630.00	79.4	326.0	10,566.19	-11.36	-147.08	265.6	147.52	92.00	39.0
10,647.00	86.1	325.5	10,568.34	2.57	-156.56	270.9	156.59	108.66	39.5
10,662.00	87.7	325.7	10,569.15	14.93	-165.03	275.2	165.70	123.47	10.7
10,678.00	87.8	325.4	10,569.78	28.11	-174.07	279.2	176.33	139.28	2.0
10,693.00	87.9	324.5	10,570.34	40.38	-182.68	282.5	187.09	154.12	6.0
10,710.00	88.2	324.3	10,570.92	54.20	-192.57	285.7	200.05	170.97	2.1
10,725.00	89.9	323.7	10,571.16	66.33	-201.38	288.2	212.03	185.86	12.0
10,741.00	90.4	323.4	10,571.12	79.20	-210.89	290.6	225.27	201.75	3.6
10,772.00	91.0	323.0	10,570.74	104.02	-229.46	294.4	251.94	232.57	2.3
10,805.00	91.2	322.7	10,570.11	130.32	-249.38	297.6	281.38	265.39	1.1
10,837.00	90.9	321.6	10,569.52	155.58	-269.01	300.0	310.77	297.25	3.6
10,868.00	91.0	320.7	10,569.01	179.72	-288.46	301.9	339.86	328.17	2.9
10,900.00	90.8	320.0	10,568.51	204.36	-308.87	303.5	370.36	360.11	2.3

10,932.00	91.1	319.7	10,567.98	228.81	-329.50	304.8	401.16	392.07	1.3
10,964.00	91.1	320.1	10,567.36	253.29	-350.11	305.9	432.13	424.02	1.2
10,995.00	91.2	319.7	10,566.74	276.99	-370.08	306.8	462.26	454.97	1.3
11,027.00	91.3	319.5	10,566.04	301.36	-390.81	307.6	493.51	486.93	0.7
11,059.00	91.1	320.0	10,565.37	325.78	-411.48	308.4	524.83	518.89	1.7
11,091.00	90.1	320.6	10,565.04	350.40	-431.92	309.1	556.18	550.83	3.6
11,123.00	89.5	320.8	10,565.15	375.16	-452.19	309.7	587.55	582.77	2.0
11,155.00	88.6	321.4	10,565.68	400.06	-472.28	310.3	618.95	614.68	3.4
11,186.00	88.7	320.7	10,566.41	424.16	-491.76	310.8	649.42	645.59	2.3
11,218.00	89.8	320.0	10,566.83	448.80	-512.18	311.2	680.99	677.53	4.1
11,250.00	90.7	319.9	10,566.69	473.29	-532.77	311.6	712.63	709.49	2.8
11,282.00	92.1	319.8	10,565.91	497.74	-553.40	312.0	744.31	741.44	4.4
11,314.00	92.2	319.0	10,564.71	522.02	-574.21	312.3	776.03	773.39	2.5
11,346.00	91.9	319.5	10,563.56	546.25	-595.08	312.5	807.78	805.35	1.8
11,378.00	92.0	319.7	10,562.47	570.60	-615.81	312.8	839.53	837.29	0.7
11,409.00	91.3	319.6	10,561.58	594.22	-635.87	313.1	870.30	868.25	2.3
11,441.00	91.0	320.3	10,560.94	618.71	-656.46	313.3	902.07	900.20	2.4
11,473.00	92.2	321.0	10,560.05	643.44	-676.74	313.6	933.81	932.12	4.3
11,504.00	92.3	322.3	10,558.83	667.74	-695.96	313.8	964.48	962.99	4.2
11,536.00	91.9	322.9	10,557.66	693.14	-715.38	314.1	996.10	994.82	2.3
11,568.00	92.0	322.4	10,556.57	718.56	-734.78	314.4	1,027.74	1,026.65	1.6
11,600.00	92.3	322.3	10,555.37	743.88	-754.32	314.6	1,059.41	1,058.48	1.0
11,631.00	92.5	322.5	10,554.07	768.42	-773.22	314.8	1,090.11	1,089.32	0.9
11,663.00	92.6	321.3	10,552.64	793.58	-792.94	315.0	1,121.84	1,121.17	3.8
11,695.00	92.9	320.7	10,551.11	818.42	-813.06	315.2	1,153.63	1,153.06	2.1
11,725.00	93.2	320.0	10,549.51	841.48	-832.17	315.3	1,183.47	1,182.96	2.5
11,757.00	93.0	319.8	10,547.78	865.92	-852.75	315.4	1,215.32	1,214.87	0.9
11,788.00	92.5	318.9	10,546.29	889.42	-872.92	315.5	1,246.22	1,245.81	3.3
11,820.00	92.3	319.4	10,544.95	913.60	-893.84	315.6	1,278.13	1,277.76	1.7
11,852.00	92.3	318.6	10,543.67	937.73	-914.81	315.7	1,310.05	1,309.72	2.5
11,884.00	92.7	318.2	10,542.27	961.64	-936.04	315.8	1,341.98	1,341.67	1.8
11,915.00	93.8	317.9	10,540.52	984.66	-956.73	315.8	1,372.91	1,372.62	3.7
11,947.00	94.5	317.6	10,538.20	1,008.28	-978.19	315.9	1,404.81	1,404.53	2.4
11,979.00	94.5	317.8	10,535.69	1,031.88	-999.66	315.9	1,436.69	1,436.43	0.6
12,010.00	94.1	318.2	10,533.37	1,054.85	-1,020.34	316.0	1,467.58	1,467.34	1.8

12,042.00	94.2	318.4	10,531.05	1,078.68	-1,041.57	316.0	1,499.47	1,499.25	0.7
12,074.00	94.6	318.9	10,528.60	1,102.63	-1,062.65	316.1	1,531.35	1,531.14	2.0
12,105.00	94.5	318.8	10,526.14	1,125.90	-1,082.99	316.1	1,562.21	1,562.03	0.5
12,137.00	94.7	318.7	10,523.57	1,149.88	-1,104.02	316.2	1,594.08	1,593.91	0.7
12,168.00	94.0	318.7	10,521.22	1,173.10	-1,124.42	316.2	1,624.96	1,624.80	2.3
12,200.00	94.0	319.3	10,518.99	1,197.19	-1,145.36	316.3	1,656.84	1,656.71	1.9
12,231.00	93.6	319.2	10,516.93	1,220.63	-1,165.55	316.3	1,687.73	1,687.62	1.3
12,263.00	93.0	319.3	10,515.09	1,244.83	-1,186.41	316.4	1,719.64	1,719.54	1.9
12,295.00	92.2	319.2	10,513.64	1,269.05	-1,207.27	316.4	1,751.57	1,751.48	2.5
12,326.00	91.4	318.9	10,512.66	1,292.45	-1,227.58	316.5	1,782.52	1,782.44	2.8
12,358.00	91.2	318.4	10,511.94	1,316.46	-1,248.71	316.5	1,814.49	1,814.42	1.7
12,390.00	91.2	319.1	10,511.27	1,340.52	-1,269.81	316.6	1,846.46	1,846.40	2.2
12,422.00	90.7	319.2	10,510.74	1,364.72	-1,290.74	316.6	1,878.42	1,878.37	1.6
12,454.00	90.7	319.1	10,510.35	1,388.92	-1,311.67	316.6	1,910.39	1,910.35	0.3
12,486.00	90.7	319.2	10,509.96	1,413.13	-1,332.59	316.7	1,942.35	1,942.32	0.3
12,518.00	90.7	319.8	10,509.56	1,437.46	-1,353.38	316.7	1,974.31	1,974.29	1.9
12,549.00	90.6	320.1	10,509.21	1,461.19	-1,373.32	316.8	2,005.26	2,005.25	1.0
12,581.00	90.2	320.0	10,508.99	1,485.72	-1,393.87	316.8	2,037.21	2,037.20	1.3
12,612.00	90.0	320.1	10,508.94	1,509.48	-1,413.77	316.9	2,068.16	2,068.16	0.7
12,643.00	90.0	319.9	10,508.94	1,533.23	-1,433.70	316.9	2,099.12	2,099.11	0.6
12,695.00	90.0	319.9	10,508.94	1,573.01	-1,467.20	317.0	2,151.05	2,151.05	0.0