

Results of Directional Survey

API number:	30-025-04492		
OGRID:		Operator:	XTO ENERGY, INC
		Property:	EUNICE MONUMENT SOUTH UNIT # 200H

surface	ULSTR:	D-5 (E)	04	T 21S	R 36E
				1980 FNL	660 FWL

BH Loc	ULSTR:	G-15 (O)	04	T 21S	R 36E
7009	MD	3778.2	TVD	4616 FNL	2649 FWL

Top Perf/OH	ULSTR:	D-5 (E)	04	T 21S	R 36E
3630	MD	3629.5	TVD	1973 FNL	687 FWL

Bot Perf/OH	ULSTR:	G-15 (O)	04	T 21S	R 36E
7009	MD	3778.2	TVD	4616 FNL	2649 FWL

	MD	N/S	E/W	VD
	0	0.00	0.00	0
TOP PERFS/OH	3630	7.40	26.72	3629.47
	3630	7.40	26.72	3629.47
	6957	-2594.37	1958.54	3777.87
BOT PERFS/OH	7009	-2636.27	1989.32	3778.24
	7009	-2636.27	1989.32	3778.24

NEXT TO LAST	6957	-2594.37	1958.54	3777.87
LAST READING	7009	-2636.27	1989.32	3778.24
TD	7009	-2636.27	1989.32	3778.24

Surface Location	1980 FNL	660 FW
Projected BHL	4616 FNL	2649 FW
Location of		
Top Perfs/OH	1973 FNL	687 FW
Bottom Perfs/OH	4616 FNL	2649 FW

SUMMARY of Subsurface Locations

Surface Location	D-5 (E)-04-21S-36E	1980 FNL	660 FW	Vert. Depth
Top Perfs/OH	D-5 (E)-04-21S-36E	1973 FNL	687 FW	3629.47
Bottom Perfs/OH	G-15 (O)-04-21S-36E	4616 FNL	2649 FW	3778.24
Projected TD	G-15 (O)-04-21S-36E	4616 FNL	2649 FW	3778.24

APR 18 2012

A Gyrodata Directional Survey

FINAL DEFINITIVE COPY

for

XTO ENERGY

Lease: EMSU Well: 200H,
Location: Key #36, EMS

REC'D MIDLAND
DEC 07 2011

Job Number: MD0811ESTW371

Run Date: 23 Nov 2011

Surveyor: Jeremy Tepe

Calculation Method: MINIMUM CURVATURE

Survey Latitude: 32.516854 deg. N Longitude: 103.276306 deg. W

Azimuth Correction:

Gyro: Bearings are Relative to Grid North

Total Magnetic: 0.00000 deg to Grid North

Proposed Well Direction: 143.100 deg

Vertical Section Calculated from Well Head Location

Closure Calculated from Well Head Location

Horizontal Coordinates Calculated from Well Head Location

RECEIVED
MAR 09 2012

HOBBS OGD

SUR: D-5 (E)-4-21s-36e, 1980/N & 660/W
BHL: G-15 (O)-4-21s-36e, 4616/N & 2649/W
API # 30-025-04492

A Gyrodata Directional Survey

Lease: EMSU Well: 200H

Location: Key #36, EMS

Job Number: MD0811ESTW371

MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	BORE HOLE BEARING deg. min.	DOGLEG SEVERITY deg/ 100.0 ft	VERTICAL DEPTH feet	CLOSURE DIST. feet	AZIMUTH deg.	HORIZONTAL COORDINATES feet	
3600.00	0.90	359.30	N 0 42 W	0.00	3599.47	27.6	75.4	6.96 N	26.74 E
3630 - 7009 Ft Magnetic Multishot Survey all measured depths and coordinates referenced to T #36 RKB of									
Tie-in provided by Pathfinder Directional 3630 - 7009 Ft Magnetic Multishot Survey RIH tool at surface 09/01/2011									
3630.00	0.80	355.10	N 4 54 W	0.39	3629.47	27.7	74.5	7.40 N	26.72 E
3685.00	21.40	144.30	S 35 42 E	40.17	3683.24	32.6	90.8	0.46 S	32.61 E
3700.00	27.50	144.50	S 35 30 E	40.67	3696.88	36.6	98.6	5.51 S	36.23 E
3717.00	33.80	144.60	S 35 24 E	37.06	3711.50	43.1	106.9	12.56 S	41.25 E
3732.00	39.40	145.30	S 34 42 E	37.44	3723.54	50.5	113.2	19.88 S	46.38 E
3749.00	45.80	145.40	S 34 36 E	37.65	3736.05	60.5	119.0	29.34 S	52.92 E
3764.00	51.40	144.70	S 35 18 E	37.50	3745.96	70.8	123.0	38.56 S	59.36 E
3780.00	57.60	143.90	S 36 6 E	38.96	3755.25	83.1	126.3	49.13 S	66.96 E
3795.00	63.40	142.80	S 37 12 E	39.19	3762.63	95.6	128.6	59.60 S	74.76 E
3812.00	69.70	142.20	S 37 48 E	37.20	3769.39	110.8	130.5	71.97 S	84.25 E
3827.00	75.90	142.80	S 37 12 E	41.51	3773.83	124.8	131.9	83.33 S	92.97 E
3844.00	81.20	142.80	S 37 12 E	31.18	3777.20	141.2	133.2	96.60 S	103.04 E
3859.00	83.80	143.40	S 36 36 E	17.78	3779.16	155.9	134.1	108.49 S	111.96 E
3876.00	86.00	143.40	S 36 36 E	12.94	3780.67	172.6	135.0	122.08 S	122.06 E
3891.00	86.70	143.90	S 36 6 E	5.73	3781.63	187.4	135.7	134.14 S	130.93 E

A Gyrodata Directional Survey

Lease: EMSU Well: 200H

Location: Key #36, EMS

Job Number: MD0811ESTW371

MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	BORE HOLE BEARING deg. min.	DOGLEG SEVERITY deg/ 100.0 ft	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
3908.00	88.80	144.50	S 35 30 E	12.85	3782.29	204.3 136.4	147.91 S 140.87 E
3923.00	89.70	144.00	S 36 0 E	6.86	3782.49	219.1 136.9	160.09 S 149.63 E
3940.00	90.90	143.20	S 36 48 E	8.48	3782.40	236.0 137.4	173.77 S 159.72 E
3971.00	90.90	143.10	S 36 54 E	0.32	3781.91	266.9 138.1	198.57 S 178.31 E
4002.00	90.80	143.30	S 36 42 E	0.72	3781.45	297.8 138.6	223.39 S 196.88 E
4033.00	91.20	143.40	S 36 36 E	1.33	3780.91	328.7 139.1	248.26 S 215.38 E
4065.00	91.20	143.50	S 36 30 E	0.31	3780.24	360.6 139.4	273.96 S 234.43 E
4097.00	89.90	143.30	S 36 42 E	4.11	3779.93	392.5 139.8	299.65 S 253.51 E
4128.00	90.30	143.60	S 36 24 E	1.61	3779.88	423.4 140.0	324.55 S 271.97 E
4160.00	89.90	144.70	S 35 18 E	3.66	3779.82	455.4 140.3	350.49 S 290.71 E
4192.00	90.10	144.60	S 35 24 E	0.70	3779.82	487.3 140.6	376.59 S 309.22 E
4223.00	90.30	144.40	S 35 36 E	0.91	3779.72	518.2 140.8	401.83 S 327.23 E
4255.00	90.60	144.90	S 35 6 E	1.82	3779.47	550.1 141.1	427.93 S 345.74 E
4287.00	89.50	145.30	S 34 42 E	3.66	3779.44	582.1 141.3	454.17 S 364.05 E
4319.00	89.50	145.00	S 35 0 E	0.94	3779.72	614.0 141.5	480.43 S 382.33 E
4350.00	89.50	144.90	S 35 6 E	0.32	3779.99	644.9 141.7	505.81 S 400.13 E
4382.00	89.70	145.30	S 34 42 E	1.40	3780.21	676.9 141.8	532.05 S 418.44 E
4414.00	89.50	145.10	S 34 54 E	0.88	3780.43	708.8 142.0	558.33 S 436.71 E
4445.00	89.50	144.20	S 35 48 E	2.90	3780.70	739.8 142.1	583.61 S 454.64 E
4477.00	90.00	144.60	S 35 24 E	2.00	3780.84	771.8 142.2	609.63 S 473.27 E
4509.00	89.80	144.50	S 35 30 E	0.70	3780.90	803.7 142.3	635.70 S 491.83 E
4540.00	90.10	145.00	S 35 0 E	1.88	3780.93	834.7 142.4	661.01 S 509.72 E

A Gyrodata Directional Survey

Lease: EMSU Well: 200H

Location: Key #36, EMS

Job Number: MD0811ESTW371

MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	BORE HOLE BEARING deg. min.	DOGLEG SEVERITY deg/ 100.0 ft	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
4572.00	90.40	144.70	S 35 18 E	1.33	3780.79	866.7 142.5	687.18 S 528.14 E
4604.00	90.30	144.40	S 35 36 E	0.99	3780.59	898.7 142.5	713.25 S 546.70 E
4635.00	89.70	143.50	S 36 30 E	3.49	3780.59	929.7 142.6	738.31 S 564.94 E
4667.00	89.30	143.30	S 36 42 E	1.40	3780.87	961.7 142.6	764.00 S 584.02 E
4699.00	89.00	142.30	S 37 42 E	3.26	3781.35	993.6 142.6	789.48 S 603.37 E
4730.00	89.10	142.40	S 37 36 E	0.46	3781.86	1024.6 142.6	814.02 S 622.30 E
4762.00	89.30	142.40	S 37 36 E	0.63	3782.31	1056.6 142.6	839.38 S 641.82 E
4794.00	88.70	142.40	S 37 36 E	1.88	3782.86	1088.6 142.6	864.72 S 661.34 E
4826.00	88.90	143.70	S 36 18 E	4.11	3783.54	1120.6 142.6	890.29 S 680.58 E
4826.00	88.90	143.70	S 36 18 E	0.00	3783.54	1120.6 142.6	890.29 S 680.58 E
4857.00	89.30	143.70	S 36 18 E	1.29	3784.02	1151.6 142.6	915.27 S 698.93 E
4888.00	88.60	142.90	S 37 6 E	3.43	3784.59	1182.6 142.7	940.12 S 717.45 E
4919.00	89.80	143.50	S 36 30 E	4.33	3785.02	1213.6 142.7	964.94 S 736.02 E
4951.00	90.40	144.20	S 35 48 E	2.88	3784.97	1245.6 142.7	990.78 S 754.89 E
4982.00	90.00	144.80	S 35 12 E	2.33	3784.86	1276.6 142.7	1016.02 S 772.89 E
5014.00	90.80	144.50	S 35 30 E	2.67	3784.64	1308.6 142.8	1042.12 S 791.41 E
5045.00	92.00	145.20	S 34 48 E	4.48	3783.88	1339.5 142.8	1067.46 S 809.25 E
5077.00	91.90	145.60	S 34 24 E	1.29	3782.79	1371.5 142.9	1093.78 S 827.41 E
5107.00	92.20	145.80	S 34 12 E	1.20	3781.72	1401.4 143.0	1118.55 S 844.31 E
5139.00	92.60	144.50	S 35 30 E	4.25	3780.38	1433.4 143.0	1144.79 S 862.57 E
5171.00	92.60	143.50	S 36 30 E	3.12	3778.92	1465.3 143.0	1170.65 S 881.36 E

A Gyrodata Directional Survey

Lease: EMSU Well: 200H

Location: Key #36, EMS

Job Number: MD0811ESTW371

MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	BORE HOLE BEARING deg. min.	DOGLEG SEVERITY deg/ 100.0 ft	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
5203.00	92.30	142.60	S 37 24 E	2.96	3777.56	1497.3 143.0	1196.20 S 900.58 E
5235.00	93.30	143.40	S 36 36 E	4.00	3775.99	1529.3 143.0	1221.72 S 919.82 E
5267.00	93.10	145.20	S 34 48 E	5.65	3774.21	1561.2 143.1	1247.67 S 938.46 E
5299.00	92.20	144.00	S 36 0 E	4.68	3772.73	1593.2 143.1	1273.72 S 956.98 E
5331.00	91.00	143.10	S 36 54 E	4.69	3771.83	1625.2 143.1	1299.45 S 975.98 E
5363.00	91.20	143.10	S 36 54 E	0.63	3771.22	1657.1 143.1	1325.04 S 995.19 E
5395.00	91.30	142.70	S 37 18 E	1.29	3770.52	1689.1 143.1	1350.55 S 1014.49 E
5426.00	90.60	142.60	S 37 24 E	2.28	3770.01	1720.1 143.1	1375.19 S 1033.29 E
5458.00	90.80	142.50	S 37 30 E	0.70	3769.62	1752.1 143.1	1400.60 S 1052.75 E
5490.00	91.10	142.10	S 37 54 E	1.56	3769.09	1784.1 143.1	1425.91 S 1072.32 E
5522.00	90.50	142.50	S 37 30 E	2.25	3768.64	1816.1 143.0	1451.23 S 1091.88 E
5553.00	91.00	142.50	S 37 30 E	1.61	3768.23	1847.1 143.0	1475.82 S 1110.75 E
5585.00	89.70	142.40	S 37 36 E	4.07	3768.04	1879.1 143.0	1501.19 S 1130.25 E
5617.00	88.10	142.40	S 37 36 E	5.00	3768.65	1911.1 143.0	1526.54 S 1149.77 E
5648.00	88.70	142.40	S 37 36 E	1.94	3769.52	1942.1 143.0	1551.09 S 1168.68 E
5680.00	88.70	142.50	S 37 30 E	0.31	3770.24	1974.1 143.0	1576.45 S 1188.18 E
5710.00	88.10	142.90	S 37 6 E	2.40	3771.08	2004.1 143.0	1600.31 S 1206.35 E
5742.00	86.90	141.90	S 38 6 E	4.88	3772.48	2036.0 143.0	1625.64 S 1225.86 E
5774.00	86.80	141.40	S 38 36 E	1.59	3774.24	2068.0 143.0	1650.69 S 1245.68 E
5806.00	87.50	141.50	S 38 30 E	2.21	3775.83	2099.9 142.9	1675.69 S 1265.60 E
5837.00	88.50	142.10	S 37 54 E	3.76	3776.91	2130.9 142.9	1700.03 S 1284.76 E
5869.00	89.50	142.60	S 37 24 E	3.49	3777.47	2162.9 142.9	1725.37 S 1304.30 E

A Gyrodata Directional Survey

Lease: EMSU Well: 200H

Location: Key #36, EMS

Job Number: MD0811ESTW371

MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	BORE HOLE BEARING deg. min.	DOGLEG SEVERITY deg/ 100.0 ft	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
5901.00	90.20	143.50	S 36 30 E	3.56	3777.55	2194.9 142.9	1750.94 S 1323.54 E
5933.00	90.10	143.60	S 36 24 E	0.44	3777.47	2226.9 142.9	1776.68 S 1342.55 E
5964.00	89.60	143.10	S 36 54 E	2.28	3777.55	2257.9 142.9	1801.55 S 1361.05 E
5995.00	90.40	142.90	S 37 6 E	2.66	3777.55	2288.9 142.9	1826.31 S 1379.71 E
6027.00	91.30	143.40	S 36 36 E	3.22	3777.07	2320.9 142.9	1851.91 S 1398.90 E
6059.00	91.10	143.00	S 37 0 E	1.40	3776.40	2352.9 142.9	1877.53 S 1418.06 E
6090.00	91.30	142.90	S 37 6 E	0.72	3775.75	2383.9 142.9	1902.26 S 1436.74 E
6121.00	91.00	143.10	S 36 54 E	1.16	3775.13	2414.9 142.9	1927.02 S 1455.39 E
6153.00	91.10	143.20	S 36 48 E	0.44	3774.55	2446.9 142.9	1952.62 S 1474.58 E
6185.00	91.50	143.40	S 36 36 E	1.40	3773.82	2478.8 142.9	1978.27 S 1493.70 E
6217.00	91.60	143.40	S 36 36 E	0.31	3772.95	2510.8 143.0	2003.95 S 1512.77 E
6248.00	90.60	143.60	S 36 24 E	3.29	3772.36	2541.8 143.0	2028.86 S 1531.20 E
6279.00	90.90	143.40	S 36 36 E	1.16	3771.95	2572.8 143.0	2053.78 S 1549.64 E
6311.00	90.80	143.60	S 36 24 E	0.70	3771.48	2604.8 143.0	2079.50 S 1568.67 E
6343.00	90.60	143.70	S 36 18 E	0.70	3771.09	2636.8 143.0	2105.27 S 1587.64 E
6374.00	89.80	142.90	S 37 6 E	3.65	3770.98	2667.8 143.0	2130.13 S 1606.17 E
6406.00	90.40	143.50	S 36 30 E	2.65	3770.92	2699.8 143.0	2155.75 S 1625.33 E
6437.00	90.20	142.60	S 37 24 E	2.97	3770.76	2730.8 143.0	2180.52 S 1643.97 E
6468.00	88.80	141.60	S 38 24 E	5.55	3771.03	2761.8 143.0	2204.98 S 1663.01 E
6500.00	88.70	141.30	S 38 42 E	0.99	3771.73	2793.8 143.0	2230.00 S 1682.95 E
6532.00	89.70	142.10	S 37 54 E	4.00	3772.18	2825.8 142.9	2255.11 S 1702.78 E
6564.00	90.50	143.10	S 36 54 E	4.00	3772.12	2857.8 142.9	2280.54 S 1722.21 E

A Gyrodata Directional Survey

Lease: EMSU Well: 200H

Location: Key #36, EMS

Job Number: MD0811ESTW371

MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	BORE HOLE BEARING deg. min.	DOGLEG SEVERITY deg/ 100.0 ft	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
6596.00	90.60	142.30	S 37 42 E	2.52	3771.81	2889.8 142.9	2305.99 S 1741.60 E
6627.00	90.50	141.80	S 38 12 E	1.64	3771.52	2920.8 142.9	2330.43 S 1760.67 E
6659.00	90.60	142.30	S 37 42 E	1.59	3771.21	2952.8 142.9	2355.67 S 1780.35 E
6691.00	90.60	142.90	S 37 6 E	1.87	3770.87	2984.8 142.9	2381.09 S 1799.78 E
6723.00	88.80	143.20	S 36 48 E	5.70	3771.04	3016.8 142.9	2406.66 S 1819.01 E
6755.00	87.50	143.30	S 36 42 E	4.07	3772.07	3048.7 142.9	2432.28 S 1838.15 E
6787.00	87.50	143.20	S 36 48 E	0.31	3773.47	3080.7 142.9	2457.90 S 1857.28 E
6819.00	88.20	143.30	S 36 42 E	2.21	3774.67	3112.7 142.9	2483.52 S 1876.41 E
6850.00	88.20	143.40	S 36 36 E	0.32	3775.64	3143.7 142.9	2508.38 S 1894.91 E
6882.00	88.50	143.20	S 36 48 E	1.13	3776.57	3175.7 142.9	2534.03 S 1914.02 E
6914.00	88.80	143.40	S 36 36 E	1.13	3777.32	3207.6 142.9	2559.68 S 1933.14 E
6945.00	89.50	144.10	S 35 54 E	3.19	3777.78	3238.6 142.9	2584.67 S 1951.47 E
6957.00	89.60	143.70	S 36 18 E	3.44	3777.87	3250.6 143.0	2594.37 S 1958.54 E
7009.00	89.60	143.70	S 36 18 E	0.00	3778.24	3302.6 143.0	2636.27 S 1989.32 E

Final Station Closure: Distance: 3302.63 ft Az: 142.96 deg.