



INTEQ

2105 Market Street  
Midland, Texas 79703  
Tel. (432) 694-9517  
Fax (432) 694-5648

October 1, 2004

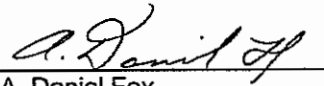
Attention: Railroad Commission of Texas  
Oil & Gas Division  
P.O. Box 12967  
Capital Station  
Austin, TX 78711

Re: XTO Energy  
Well Name: University AO #14 H2  
Sec. 10 Block 9, University Land  
Andrews County, Texas  
API No. 42-003-38362

Enclosed, please find the original and one copy of the survey performed on the referenced well by Baker Hughes INTEQ (P-5 No. 046289). Other information required by your office is as follows:

<u>Name &amp; Title of Surveyor</u>	<u>Drainhole Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
David Davila Surveyor	1	10176' to 11029'	9/10/04-9/16/04	MWD

A certified plat on which the bottom hole location is oriented both to the surface location and to the lease lines (or unit line in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

  
A. Daniel Fox  
Well Planner

University AO #14 H2  
Andrews County, TX



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SURVEY CERTIFICATION SHEET

STATE OF TEXAS  
COUNTY OF MIDLAND

I, David Davila, certify that; I am employed by Baker Hughes INTEQ; that I did on the day(s) of 9/10/04 to 9/16/04 conduct or supervise the taking of a MWD survey from a depth of 10176 feet to a depth of 11029 feet; that the data is true, correct, complete and within the limitations of the tool as set forth by Baker Hughes INTEQ; that I am authorized and qualified to make this report; that this survey was conducted at the request of XTO Energy for the University AO #14 H2 Well API No. 42-003-38362 in Andrews County, Texas; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by Baker Hughes INTEQ.

David Davila  
Surveyor

University AO #14 H2  
Andrews County, TX

**TOPGRAPHIC LAND SURVEYORS TEXAS**

Surveying and Mapping for the Energy Industry

2903 N. BIG SPRING • MIDLAND, TEXAS 79705  
 TELEPHONES: (915) 682-1653 • (800) 767-1653 • FAX (915) 682-1743

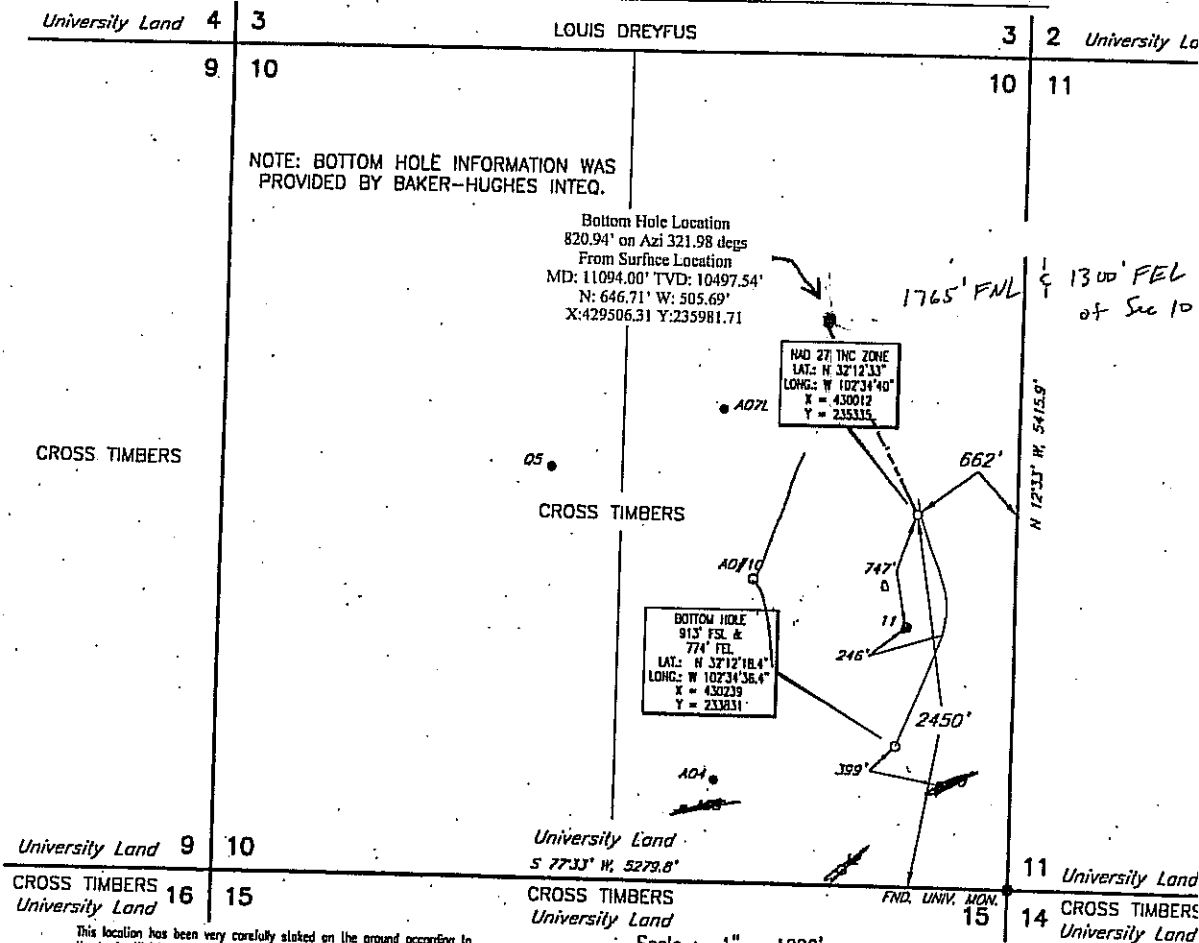
REC'D. / MIDLAND

JUN 29 1998

ANDREWS County, Texas

Description 2450' FSL & 662' FEL

SECTION 10, BLOCK 9, UNIVERSITY LAND



This location has been very carefully staked on the ground according to the best official survey records, maps, and other data available to us. Review this plot and notify us immediately of any possible discrepancy.

Operator CROSS TIMBERS OPERATING COMPANY

Lease Name & Well No. UNIVERSITY AO #14

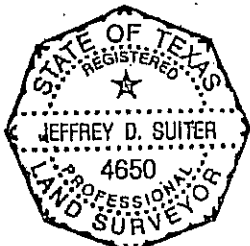
Ground Elev. 3173' Reference Stakes or NONE

Good Drill Site? YES Stokes Set POWERLINES 125' EAST & SW; LEASE ROAD 40' NORTH

Topography & Vegetation SANDY NATURAL PASTURE

Best Accessibility to Location FROM LEASE ROAD ±40' NORTH OF THE LOCATION

Distance & Direction from Hwy Jct. or Town FROM THE JCT. OF U.S. HWY. 385 & COUNTY ROAD SW5900, ±7.8 MILES SOUTH OF ANDREWS, GO WESTERLY 4.6 MILES ON COUNTY ROAD SW5900, THENCE NORTHERLY 0.4 MILE ON LEASE ROAD, THENCE EAST 0.5 MILE ON LEASE ROAD, THENCE NORTHERLY 0.7 MILE ON LEASE ROAD, THENCE WEST 0.1 MILE ON LEASE ROAD TO A POINT ±40' NORTH OF THE LOCATION.



**CERTIFICATION:**

I, Jeffrey D. Suiter, a Registered Professional Land Surveyor, and an authorized agent of Topographic Land Surveyors, do hereby certify that the above described well location was surveyed and staked on the ground as shown herein.

*Jeffrey D. Suiter*

# XTO Energy

Structure : AO #14H2 Slot : slot #1  
 Field : University Land Location : ANDREWS COUNTY, TEXAS

Created by: donf  
 Date plotted : 17-Sep-2004  
 Plot Reference is Pin 1.  
 Coordinates are in feet reference slot #1.  
 True Vertical Depths are reference rotary table.  
 14h2pva  
 --- Baker Hughes INTEQ ---



## WELL PROFILE DATA

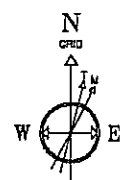
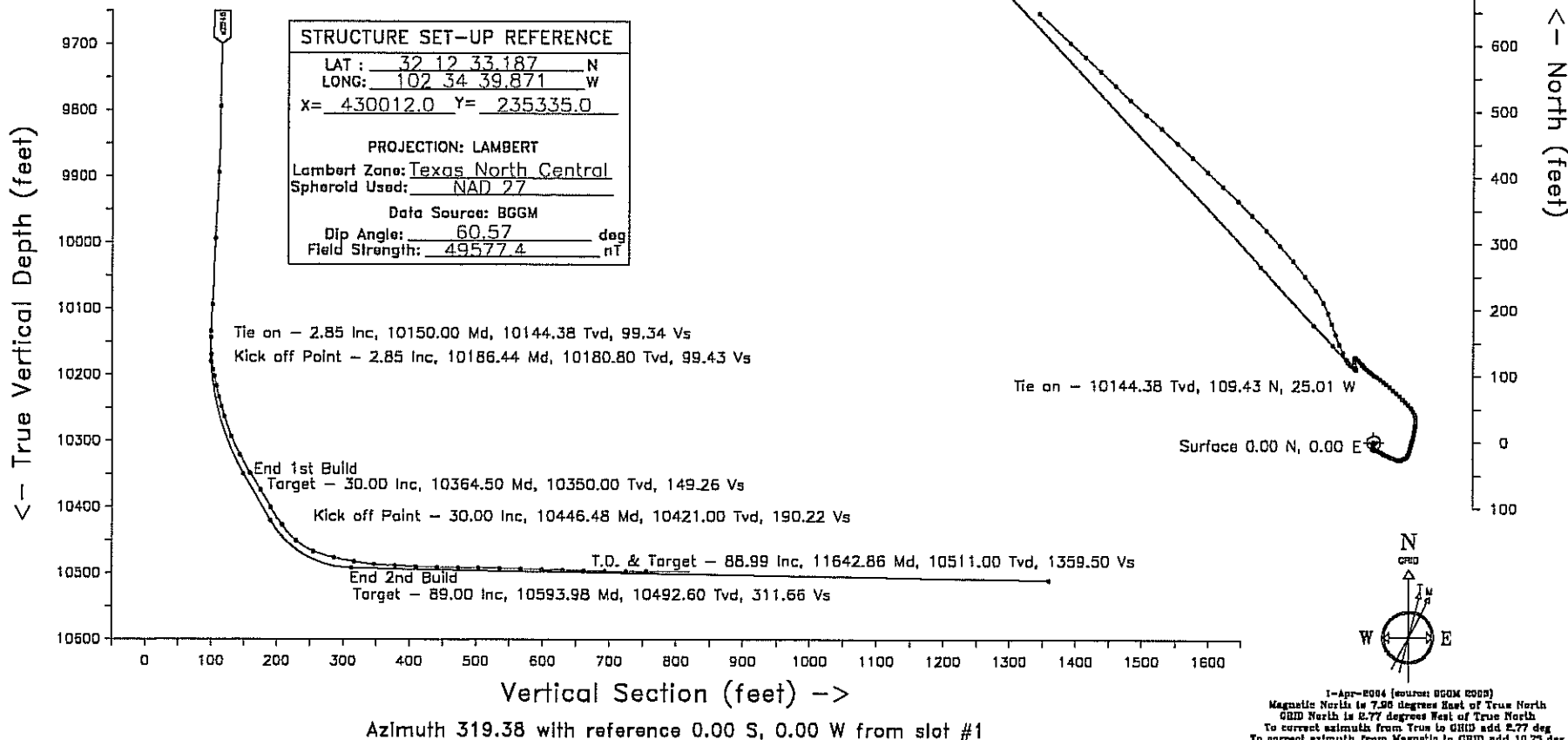
Point	MD	Inc	Dir	TVD	North	East	V. Sect	Deg/100
Tie on	10150.00	2.85	164.64	10144.38	109.43	-25.01	99.34	0.00
KOP	10186.44	2.85	317.01	10180.80	109.21	-25.39	99.43	15.20
Target End 1st Build	10364.50	30.00	317.01	10350.00	145.70	-59.40	149.26	15.25
KOP	10446.48	30.00	317.01	10421.00	175.69	-87.35	190.22	0.00
Target End 2nd Build	10593.98	89.00	317.01	10492.60	264.59	-170.23	311.66	40.00
T.D. & Target BHL	11642.86	88.99	317.06	10511.00	1032.00	-885.00	1359.50	0.00

← West (feet)

900 800 700 600 500 400 300 200 100 0 100

T.D. & Target - 10511.00 Tvd, 1032.00 N, 885.00 W

Bottom Hole Location  
 820.94' on Azi 321.98 degs  
 From Surface Location  
 MD: 11094.00' TVD: 10497.54'  
 N: 646.71' W: 505.69'  
 X:429506.31 Y:235981.71



1-Apr-2004 (source: BGGM 2003)  
 Magnetic North is 7.00 degrees East of True North  
 GRID North is 2.77 degrees West of True North  
 To correct azimuth from True to GRID add 2.77 deg  
 To correct azimuth from Magnetic to GRID add 10.73 deg



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# Record of Survey

XTO Energy

University AO #14 H2  
Andrews County, Texas

Friday, October 01, 2004

University AO #14 H2  
Andrews County, TX

XTO Energy  
AO #14H2

slot #1  
University Land  
ANDREWS COUNTY, TEXAS

S U R V E Y L I S T I N G

by  
Baker Hughes INTEQ

Your ref : MWD Lat2  
Our ref : svy2545  
License :

Date printed : 1-Oct-2004  
Date created : 5-Apr-2004  
Last revised : 1-Oct-2004

Field is centred on 465238.220,239627.450,999.00000,N  
Structure is centred on 430012.000,235335.000,999.00000,N

Slot location is n32 12 33.187,w102 34 39.871  
Slot Grid coordinates are N 235335.000, E 430012.000  
Slot local coordinates are 0.00 N 0.00 E

Projection type: Lambert - Texas North Central (4202), Spheroid: Clarke - 1866

Reference North is Grid North

Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	RECTANGULAR COORDINATES		Dogleg Deg/100ft	Vert Sect	GRID COORDS Easting Northing	
0.00	0.00	0.00	0.00	0.00N	0.00E	0.00	-0.41	430012.00	235335.00
100.00	0.10	185.00	100.00	0.09S	0.01W	0.10	-0.47	430011.99	235334.91
200.00	0.18	203.49	200.00	0.32S	0.08W	0.09	-0.60	430011.92	235334.68
300.00	0.54	197.22	300.00	0.91S	0.28W	0.36	-0.92	430011.72	235334.09
400.00	0.60	189.97	399.99	1.88S	0.51W	0.09	-1.50	430011.49	235333.12
500.00	0.55	192.17	499.99	2.86S	0.70W	0.05	-2.12	430011.30	235332.14
600.00	0.54	190.42	599.98	3.80S	0.89W	0.02	-2.71	430011.11	235331.20
700.00	0.49	191.84	699.98	4.68S	1.06W	0.05	-3.27	430010.94	235330.32
800.00	0.40	189.43	799.98	5.44S	1.21W	0.09	-3.75	430010.79	235329.56
900.00	0.48	193.17	899.97	6.19S	1.36W	0.08	-4.22	430010.64	235328.81
1000.00	0.52	176.69	999.97	7.05S	1.43W	0.15	-4.83	430010.57	235327.95
1100.00	0.35	183.15	1099.97	7.81S	1.42W	0.18	-5.41	430010.58	235327.19
1200.00	0.41	203.15	1199.96	8.45S	1.58W	0.14	-5.79	430010.42	235326.55
1300.00	0.47	192.99	1299.96	9.17S	1.81W	0.10	-6.19	430010.19	235325.83
1400.00	0.38	187.47	1399.96	9.90S	1.94W	0.10	-6.66	430010.06	235325.10
1500.00	0.04	176.28	1499.96	10.27S	1.99W	0.34	-6.91	430010.01	235324.73
1600.00	0.16	219.22	1599.96	10.41S	2.07W	0.13	-6.96	430009.93	235324.59
1700.00	0.26	194.62	1699.96	10.74S	2.22W	0.13	-7.11	430009.78	235324.26
1800.00	0.10	172.87	1799.96	11.04S	2.26W	0.17	-7.31	430009.74	235323.96
1900.00	0.02	304.19	1899.96	11.12S	2.27W	0.11	-7.37	430009.73	235323.88
2000.00	0.28	69.07	1999.96	11.02S	2.05W	0.29	-7.44	430009.95	235323.98
2100.00	0.61	86.73	2099.95	10.90S	1.29W	0.35	-7.84	430010.71	235324.10
2200.00	0.60	78.49	2199.95	10.77S	0.25W	0.09	-8.42	430011.75	235324.23
2300.00	0.85	105.62	2299.94	10.87S	0.98E	0.42	-9.29	430012.98	235324.13
2400.00	1.49	113.80	2399.92	11.59S	2.88E	0.66	-11.08	430014.88	235323.41
2500.00	1.31	117.71	2499.89	12.65S	5.08E	0.20	-13.32	430017.08	235322.35
2600.00	1.67	117.61	2599.85	13.85S	7.39E	0.36	-15.73	430019.39	235321.15
2700.00	1.65	123.29	2699.81	15.32S	9.88E	0.17	-18.47	430021.88	235319.68
2800.00	1.80	118.27	2799.77	16.85S	12.47E	0.21	-21.32	430024.47	235318.15
2900.00	1.62	118.70	2899.72	18.27S	15.09E	0.18	-24.10	430027.09	235316.73
3000.00	1.88	113.48	2999.68	19.61S	17.84E	0.30	-26.90	430029.84	235315.39
3100.00	1.75	112.45	3099.63	20.84S	20.75E	0.13	-29.74	430032.75	235314.16
3200.00	1.68	116.38	3199.58	22.08S	23.48E	0.14	-32.45	430035.48	235312.92
3300.00	1.55	113.93	3299.54	23.28S	26.03E	0.15	-35.02	430038.03	235311.72
3400.00	1.32	112.65	3399.51	24.27S	28.32E	0.23	-37.27	430040.32	235310.73
3500.00	1.20	115.39	3499.49	25.16S	30.33E	0.13	-39.25	430042.33	235309.84
3600.00	1.23	107.24	3599.46	25.93S	32.30E	0.18	-41.12	430044.30	235309.07
3700.00	0.98	105.18	3699.44	26.47S	34.16E	0.25	-42.74	430046.16	235308.53
3800.00	0.91	92.13	3799.43	26.73S	35.77E	0.23	-43.98	430047.77	235308.27
3900.00	1.01	93.59	3899.42	26.81S	37.45E	0.10	-45.14	430049.45	235308.19
4000.00	0.86	79.50	3999.40	26.73S	39.06E	0.27	-46.13	430051.06	235308.27
4100.00	0.81	80.42	4099.39	26.47S	40.50E	0.05	-46.87	430052.50	235308.53
4200.00	0.75	70.97	4199.38	26.14S	41.82E	0.14	-47.47	430053.82	235308.86
4300.00	0.55	67.84	4299.38	25.75S	42.88E	0.20	-47.87	430054.88	235309.25
4400.00	0.80	55.14	4399.37	25.17S	43.90E	0.29	-48.09	430055.90	235309.83
4500.00	0.62	61.69	4499.36	24.51S	44.95E	0.20	-48.27	430056.95	235310.49
4600.00	0.62	56.60	4599.36	23.96S	45.87E	0.06	-48.46	430057.87	235311.04
4700.00	0.39	61.80	4699.35	23.50S	46.62E	0.23	-48.60	430058.62	235311.50
4800.00	0.51	57.34	4799.35	23.10S	47.30E	0.12	-48.73	430059.30	235311.90
4900.00	0.55	57.29	4899.35	22.60S	48.08E	0.04	-48.86	430060.08	235312.40

All data in feet unless otherwise stated. Calculation uses minimum curvature method.  
 Coordinates from slot #1 and TVD from rotary table.  
 Bottom hole distance is 820.94 on azimuth 321.98 degrees from wellhead.  
 Vertical section is from N 0.43 W 0.12 on azimuth 319.38 degrees.  
 Grid is Lambert - Texas North Central (4202).  
 Lambert coordinates in FEET and computed using the Clarke - 1866 spheroid  
 Presented by Baker Hughes INTEQ

Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S		Dogleg Deg/100ft	Vert Sect	G R I D C O O R D S	
				Easting	Northing				
5000.00	0.64	46.52	4999.34	21.96S	48.89E	0.14	-48.90	430060.89	235313.04
5100.00	0.53	39.30	5099.33	21.21S	49.59E	0.13	-48.79	430061.59	235313.79
5200.00	0.73	28.47	5199.33	20.30S	50.18E	0.23	-48.48	430062.18	235314.70
5300.00	0.81	27.73	5299.32	19.11S	50.81E	0.08	-47.99	430062.81	235315.89
5400.00	0.82	17.80	5399.31	17.80S	51.36E	0.14	-47.36	430063.36	235317.20
5500.00	0.92	15.16	5499.30	16.35S	51.79E	0.11	-46.53	430063.79	235318.65
5600.00	1.16	15.83	5599.28	14.60S	52.28E	0.24	-45.52	430064.28	235320.40
5700.00	1.48	14.82	5699.26	12.38S	52.88E	0.32	-44.23	430064.88	235322.62
5800.00	1.61	11.35	5799.22	9.75S	53.49E	0.16	-42.63	430065.49	235325.25
5900.00	1.72	11.70	5899.18	6.90S	54.07E	0.11	-40.85	430066.07	235328.10
6000.00	1.84	18.15	5999.13	3.91S	54.88E	0.23	-39.10	430066.88	235331.09
6100.00	1.90	19.18	6099.08	0.82S	55.92E	0.07	-37.43	430067.92	235334.18
6200.00	1.94	14.93	6199.02	2.38N	56.90E	0.15	-35.64	430068.90	235337.38
6300.00	2.01	11.97	6298.96	5.74N	57.70E	0.12	-33.62	430069.70	235340.74
6400.00	2.00	8.99	6398.90	9.17N	58.34E	0.10	-31.42	430070.34	235344.17
6500.00	1.77	14.01	6498.84	12.40N	58.98E	0.28	-29.40	430070.98	235347.40
6600.00	1.96	10.17	6598.79	15.58N	59.66E	0.23	-27.42	430071.66	235350.58
6700.00	1.90	13.55	6698.73	18.87N	60.35E	0.13	-25.37	430072.35	235353.87
6800.00	1.99	7.98	6798.68	22.20N	60.98E	0.21	-23.25	430072.98	235357.20
6900.00	2.18	7.14	6898.61	25.81N	61.46E	0.19	-20.83	430073.46	235360.81
7000.00	2.22	3.67	6998.54	29.63N	61.82E	0.14	-18.16	430073.82	235364.63
7100.00	2.41	356.82	7098.46	33.66N	61.82E	0.34	-15.10	430073.82	235368.66
7200.00	2.55	350.18	7198.36	37.95N	61.33E	0.32	-11.52	430073.33	235372.95
7300.00	2.70	339.48	7298.26	42.35N	60.12E	0.51	-7.40	430072.12	235377.35
7400.00	3.16	330.41	7398.13	46.95N	57.94E	0.65	-2.48	430069.94	235381.95
7500.00	3.36	322.50	7497.97	51.68N	54.79E	0.49	3.15	430066.79	235386.68
7600.00	3.50	320.62	7597.79	56.36N	51.07E	0.18	9.12	430063.07	235391.36
7700.00	3.47	315.83	7697.60	60.89N	47.03E	0.29	15.20	430059.03	235395.89
7800.00	3.60	315.27	7797.41	65.29N	42.71E	0.13	21.35	430054.71	235400.29
7900.00	3.68	313.00	7897.21	69.71N	38.15E	0.16	27.67	430050.15	235404.71
8000.00	3.65	311.95	7997.01	74.03N	33.44E	0.07	34.02	430045.44	235409.03
8100.00	3.92	312.83	8096.79	78.48N	28.56E	0.28	40.57	430040.56	235413.48
8200.00	3.86	311.83	8196.56	83.05N	23.55E	0.09	47.30	430035.55	235418.05
8300.00	3.81	309.24	8296.33	87.39N	18.47E	0.18	53.91	430030.47	235422.39
8400.00	3.43	308.80	8396.13	91.37N	13.56E	0.38	60.12	430025.56	235426.37
8500.00	3.39	304.66	8495.96	94.93N	8.80E	0.25	65.92	430020.80	235429.93
8600.00	3.13	305.19	8595.79	98.18N	4.14E	0.26	71.43	430016.14	235433.18
8700.00	3.04	309.37	8695.65	101.44N	0.15W	0.24	76.68	430011.85	235436.44
8800.00	2.46	305.73	8795.53	104.37N	3.94W	0.61	81.38	430008.06	235439.37
8900.00	2.69	314.01	8895.43	107.26N	7.37W	0.44	85.80	430004.63	235442.26
9000.00	2.43	317.45	8995.33	110.45N	10.49W	0.30	90.26	430001.51	235445.45
9100.00	2.73	318.54	9095.23	113.79N	13.50W	0.30	94.76	429998.50	235448.79
9200.00	2.51	318.82	9195.13	117.23N	16.52W	0.22	99.33	429995.48	235452.23
9300.00	2.28	319.89	9295.04	120.40N	19.24W	0.23	103.51	429992.76	235455.40
9400.00	2.40	315.34	9394.96	123.41N	21.99W	0.22	107.58	429990.01	235458.41
9500.00	2.21	317.21	9494.88	126.31N	24.78W	0.20	111.60	429987.22	235461.31
9600.00	0.92	318.52	9594.84	128.33N	26.62W	1.29	114.33	429985.38	235463.33
9700.00	0.84	213.39	9694.83	128.32N	27.55W	1.40	114.93	429984.45	235463.32
9800.00	1.87	187.12	9794.80	126.09N	28.16W	1.18	113.63	429983.84	235461.09
9900.00	2.93	171.45	9894.71	121.94N	27.98W	1.24	110.37	429984.02	235456.94

All data in feet unless otherwise stated. Calculation uses minimum curvature method.  
 Coordinates from slot #1 and TVD from rotary table.  
 Bottom hole distance is 820.94 on azimuth 321.98 degrees from wellhead.  
 Vertical section is from N 0.43 W 0.12 on azimuth 319.38 degrees.  
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 Presented by Baker Hughes INTEQ

Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	RECTANGULAR COORDINATES	Dogleg Deg/100ft	Vert Sect	GRID COORDS Easting	Northing
10000.00	3.02	167.29	9994.58	116.84N	27.02W	0.23	105.87	429984.98
10100.00	2.91	163.19	10094.44	111.84N	25.71W	0.24	101.22	429986.29
10141.00	2.86	164.37	10135.39	109.86N	25.13W	0.18	99.34	429986.87
10176.00	3.80	313.80	10170.37	109.82N	25.73W	18.38	99.71	429986.27
10199.00	9.10	309.90	10193.22	111.52N	27.68W	23.11	102.26	429984.32
10209.00	10.70	308.90	10203.07	112.61N	29.01W	16.09	103.95	429982.99
10224.00	13.10	311.70	10217.74	114.61N	31.36W	16.45	107.01	429980.64
10241.00	14.40	317.30	10234.26	117.45N	34.23W	10.94	111.03	429977.77
10256.00	15.90	323.60	10248.74	120.47N	36.72W	14.84	114.94	429975.28
10272.00	18.00	330.30	10264.04	124.38N	39.24W	17.91	119.56	429972.76
10304.00	22.90	335.60	10294.02	134.36N	44.27W	16.35	130.40	429967.73
10335.00	29.30	340.10	10321.84	147.00N	49.35W	21.60	143.30	429962.65
10367.00	33.90	339.80	10349.09	162.74N	55.10W	14.38	158.99	429956.90
10398.00	32.80	339.40	10374.99	178.71N	61.04W	3.62	174.98	429950.96
10429.00	30.90	340.80	10401.32	194.09N	66.61W	6.58	190.29	429945.39
10461.00	36.30	334.50	10427.97	210.42N	73.40W	20.07	207.10	429938.60
10493.00	49.70	322.90	10451.36	228.81N	84.91W	48.49	228.55	429927.09
10524.00	66.80	322.20	10467.61	249.65N	100.89W	55.19	254.78	429911.11
10556.00	77.90	319.80	10477.30	273.30N	120.06W	35.41	285.21	429891.94
10587.00	80.40	318.70	10483.13	296.36N	139.94W	8.79	315.65	429872.06
10618.00	85.20	315.90	10487.02	318.95N	160.79W	17.89	346.37	429851.21
10650.00	87.00	314.50	10489.20	341.61N	183.28W	7.12	378.21	429828.72
10681.00	88.30	313.80	10490.47	363.18N	205.51W	4.76	409.06	429806.49
10713.00	88.60	313.80	10491.33	385.32N	228.59W	0.94	440.89	429783.41
10745.00	88.90	313.81	10492.03	407.47N	251.68W	0.94	472.73	429760.32
10776.00	89.20	313.40	10492.54	428.84N	274.13W	1.64	503.57	429737.87
10808.00	88.80	313.40	10493.10	450.83N	297.37W	1.25	535.39	429714.63
10840.00	88.70	313.10	10493.80	472.75N	320.68W	0.99	567.20	429691.32
10871.00	88.40	313.10	10494.58	493.92N	343.30W	0.97	598.01	429668.70
10903.00	88.40	313.40	10495.48	515.84N	366.60W	0.94	629.81	429645.40
10935.00	88.30	313.40	10496.40	537.82N	389.84W	0.31	661.62	429622.16
10966.00	88.90	313.40	10497.16	559.11N	412.36W	1.94	692.45	429599.64
10998.00	89.60	313.30	10497.58	581.07N	435.63W	2.21	724.27	429576.37
11029.00	90.10	313.10	10497.66	602.29N	458.23W	1.74	755.09	429553.77
11094.00	90.10	313.10	10497.54	646.71N	505.69W	0.00	819.69	429506.31

TDF  
10476

T/shale

T/DW

W. dm 10140 - 10150

TVD T/shale - 10350'

T/DW - 10433'

All data in feet unless otherwise stated. Calculation uses minimum curvature method.  
 Coordinates from slot #1 and TVD from rotary table.  
 Bottom hole distance is 820.94 on azimuth 321.98 degrees from wellhead.  
 Vertical section is from N 0.43 W 0.12 on azimuth 319.38 degrees.  
 Grid is Lambert - Texas North Central (4202).  
 Lambert coordinates in FEET and computed using the Clarke - 1866 spheroid  
 Presented by Baker Hughes INTEQ

XTO Energy  
AO #14H2, slot #1  
University Land, ANDREWS COUNTY, TEXAS

SURVEY LISTING Page 4  
Your ref : MWD Lat2  
Last revised : 1-Oct-2004

				<u>Comments in wellpath</u>
MD	TVD	Rectangular Coords.		Comment
10141.00	10135.39	109.86N	25.13W	Tie In
11094.00	10497.54	646.71N	505.69W	Projection to TD

NO PROPOSAL