



# Scientific Drilling

Scientific Drilling International, Inc.

2034 Trade Drive • Midland, Texas 79703

P. O. Box 9699 • Midland, Texas 79708

Tel: 432-563-1339 • Fax: 432-697-0324

15 May 2006

Diane Crum  
Railroad Commission of Texas  
Oil & Gas Division  
P.O. Box 12967  
Austin, Texas 78711

**Subject:** Company: XTO Energy, Inc.  
Lease Name: State of Texas DD, Well #1H  
RRC Lease ID No.: Not Assigned  
Field Name: University Block 9  
Survey Co.: University Land  
County: Andrews  
API No: 42-003-07426

Enclosed, please find the original and one copy of the survey performed on the above referenced well by Scientific Drilling International (P-5 No. 758300). Other information required by your office is as follows:

<u>Name &amp; Title of Surveyor</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Jeff Carter Field Technician	0'-10600'	02/28/06	Keeper Gyro

A Certified plat on which the bottom hole location is oriented to the surface location is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Regards,

  
Becky Wharton

Enclosures

cc:

**CERTIFIED MAIL**



7004 2510 0001 1840 7204

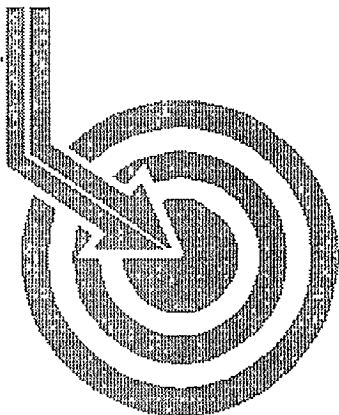
XTO ENERGY INC.  
003-07426  
STATE OF TEXAS DD  
WELL #1H  
ANDREWS



State of Texas  
County of Midland

I, Jeff Carter, certify that; I am employed by Scientific Drilling International; that I did on the day(s) of 02/28/06 through 02/28/06 conduct or supervise the taking of a Keeper Gyro survey from a depth of 0 feet to a depth of 10600 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 Energy for the State of Texas DD #1H Well, API# 42-003-07426 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.

  
Field Technician



# Scientific Drilling

**XTO**

**Field: University Block 9 (Devonian)**  
**Site: Andrews County, Texas**  
**Well: State of Texas DD #1H**  
**Wellpath: VH - Job #32K0306164**  
**Survey: 2/28/06**

**This survey is correct to the best of my knowledge and is supported by actual field data.**

*Richardson*

**Company Representative**



# Scientific Drilling International

## Survey Report

<b>Company:</b> XTO	<b>Date:</b> 03/03/2006	<b>Time:</b> 14:43:33	<b>Page:</b> 1
<b>Field:</b> State	<b>Co-ordinate(NE) Reference:</b>	<b>Site:</b> Andrews County, Texas, Grid North	
<b>Site:</b> Andrews County, Texas	<b>Vertical (TVD) Reference:</b>	<b>SITE</b> 0.0	
<b>Well:</b> State of Texas DD #1H	<b>Section (VS) Reference:</b>	<b>Well</b> (0.00N,0.00E,223.17Azi)	
<b>Wellpath:</b> VH - Job #32K0306164	<b>Survey Calculation Method:</b>	<b>Minimum Curvature</b>	<b>Db:</b> Sybase

<b>Survey:</b> 2/28/06	<b>Start Date:</b> 02/28/2006
KSRG 0'-10600'	
<b>Company:</b> Scientific Drilling Internatio	<b>Engineer:</b> Carter w/Gray
<b>Tool:</b> Keeper;Keeper Gyro	<b>Tied-to:</b> From Surface

### Survey

MD ft	Incl deg	Azlm deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
0.00	0.00	2.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.52	56.21	100.00	-0.44	0.25	0.38	0.52	0.45	56.21
200.00	0.50	17.82	199.99	-1.28	0.92	0.89	0.34	1.28	43.97
300.00	0.42	101.76	299.99	-1.86	1.26	1.38	0.62	1.87	47.59
400.00	0.57	84.03	399.99	-2.43	1.24	2.23	0.21	2.55	61.01
500.00	0.61	49.59	499.98	-3.34	1.63	3.13	0.35	3.53	62.45
600.00	0.49	18.09	599.98	-4.25	2.39	3.67	0.32	4.38	56.98
700.00	0.29	14.92	699.98	-4.86	3.04	3.87	0.20	4.92	51.87
800.00	0.13	264.36	799.98	-5.00	3.27	3.82	0.36	5.03	49.45
900.00	0.31	139.51	899.98	-4.88	3.05	3.88	0.40	4.94	51.83
1000.00	0.26	347.22	999.98	-4.98	3.07	4.01	0.55	5.05	52.57
1100.00	0.36	163.38	1099.98	-4.95	2.99	4.05	0.62	5.03	53.57
1200.00	0.29	279.83	1199.97	-4.65	2.73	3.89	0.55	4.75	54.93
1300.00	0.26	95.35	1299.97	-4.65	2.75	3.87	0.55	4.75	54.54
1400.00	0.20	56.64	1399.97	-4.96	2.83	4.24	0.16	5.10	56.28
1500.00	0.32	91.76	1499.97	-5.32	2.92	4.66	0.19	5.50	57.98
1600.00	0.37	132.23	1599.97	-5.51	2.69	5.18	0.24	5.84	62.56
1700.00	0.43	113.03	1699.97	-5.64	2.33	5.77	0.15	6.22	68.03
1800.00	0.52	108.72	1799.96	-5.96	2.03	6.54	0.10	6.85	72.73
1900.00	0.49	87.16	1899.96	-6.45	1.91	7.40	0.19	7.64	75.53
2000.00	0.87	67.24	1999.95	-7.46	2.22	8.53	0.44	8.81	75.38
2100.00	0.97	81.12	2099.94	-8.82	2.65	10.06	0.24	10.40	75.25
2200.00	0.95	87.81	2199.93	-10.07	2.81	11.73	0.11	12.06	76.52
2300.00	1.02	86.00	2299.91	-11.32	2.91	13.44	0.08	13.75	77.81
2400.00	1.08	85.44	2399.90	-12.67	3.04	15.27	0.06	15.57	78.73
2500.00	1.18	82.61	2499.88	-14.16	3.25	17.23	0.11	17.53	79.32
2600.00	1.56	74.45	2599.85	-16.12	3.75	19.56	0.43	19.92	79.16
2700.00	1.62	73.51	2699.81	-18.50	4.51	22.23	0.07	22.68	78.52
2800.00	1.67	73.99	2799.77	-20.97	5.32	24.99	0.05	25.55	77.99
2900.00	1.56	69.76	2899.73	-23.44	6.19	27.66	0.16	28.35	77.39
3000.00	1.63	77.13	2999.69	-25.84	6.98	30.33	0.22	31.12	77.05
3100.00	1.30	78.20	3099.66	-27.95	7.53	32.82	0.33	33.68	77.09
3200.00	0.91	61.99	3199.64	-29.63	8.13	34.64	0.50	35.58	76.79
3300.00	0.97	66.57	3299.62	-31.15	8.84	36.11	0.10	37.18	76.25
3400.00	1.01	56.53	3399.61	-32.79	9.66	37.63	0.18	38.85	75.60
3500.00	1.08	52.71	3499.59	-34.58	10.72	39.11	0.10	40.55	74.67
3600.00	1.07	38.82	3599.58	-36.44	12.02	40.45	0.26	42.19	73.45
3700.00	0.92	21.68	3699.56	-38.11	13.49	41.33	0.33	43.47	71.92
3800.00	0.81	7.43	3799.55	-39.44	14.94	41.72	0.24	44.31	70.30
3900.00	1.25	356.40	3899.53	-40.76	16.73	41.74	0.48	44.97	68.16
4000.00	1.68	356.80	3999.50	-42.51	19.28	41.59	0.43	45.84	65.13
4100.00	2.09	347.76	4099.45	-44.56	22.53	41.12	0.51	46.88	61.29
4200.00	2.19	345.98	4199.38	-46.63	26.16	40.27	0.12	48.02	56.99
4300.00	1.94	0.96	4299.31	-48.92	29.71	39.84	0.59	49.69	53.29
4400.00	1.87	10.02	4399.26	-51.54	33.01	40.15	0.31	51.97	50.58
4500.00	1.27	18.36	4499.22	-53.91	35.67	40.78	0.64	54.18	48.83
4600.00	0.51	26.77	4599.21	-55.35	37.11	41.33	0.77	55.55	48.08
4700.00	0.34	73.01	4699.20	-56.03	37.60	41.81	0.37	56.23	48.04
4800.00	0.63	182.32	4799.20	-55.87	37.14	42.08	0.81	56.12	48.57



# Scientific Drilling International

## Survey Report

Company: XTO  
Field: State  
Site: Andrews County, Texas  
Well: State of Texas DD #1H  
Wellpath: VH - Job #32K0306164

Date: 03/03/2006 Time: 14:43:33 Page: 2  
Co-ordinate(NE) Reference: Site: Andrews County, Texas, Grid North  
Vertical (TVD) Reference: SITE 0.0  
Section (VS) Reference: Well (0.00N,0.00E,223.17Azi)  
Survey Calculation Method: Minimum Curvature Db: Sybase

### Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
4900.00	2.22	169.53	4899.17	-54.31	34.68	42.41	1.61	54.78	50.72
5000.00	1.74	151.49	4999.11	-52.68	31.44	43.48	0.78	53.66	54.13
5100.00	0.98	177.76	5099.08	-51.60	29.25	44.24	0.96	53.04	56.52
5200.00	0.99	159.87	5199.07	-50.62	27.59	44.57	0.31	52.42	58.24
5300.00	1.12	159.93	5299.05	-49.79	25.86	45.20	0.13	52.08	60.23
5400.00	0.96	157.76	5399.03	-49.00	24.17	45.86	0.16	51.83	62.21
5500.00	1.15	165.75	5499.02	-48.11	22.42	46.42	0.24	51.55	64.22
5600.00	1.16	169.37	5599.00	-46.97	20.45	46.85	0.07	51.12	66.42
5700.00	1.29	172.68	5698.97	-45.66	18.34	47.18	0.15	50.62	68.76
5800.00	1.50	181.26	5798.94	-43.97	15.91	47.30	0.30	49.90	71.40
5900.00	1.56	187.61	5898.91	-41.89	13.26	47.09	0.18	48.92	74.28
6000.00	1.91	193.20	5998.86	-39.34	10.28	46.53	0.39	47.65	77.54
6100.00	1.79	195.78	6098.81	-36.50	7.16	45.72	0.15	46.28	81.10
6200.00	1.93	200.78	6198.76	-33.56	4.08	44.70	0.21	44.89	84.78
6300.00	2.03	203.06	6298.70	-30.34	0.88	43.41	0.13	43.42	88.84
6400.00	2.17	210.51	6398.63	-26.83	-2.38	41.76	0.31	41.82	93.27
6500.00	2.45	213.95	6498.55	-22.87	-5.79	39.60	0.31	40.02	98.31
6600.00	2.32	215.59	6598.46	-18.76	-9.21	37.23	0.15	38.35	103.89
6700.00	2.44	214.61	6698.38	-14.65	-12.60	34.84	0.13	37.05	109.89
6800.00	2.61	215.08	6798.28	-10.29	-16.22	32.32	0.17	36.17	116.65
6900.00	2.60	216.88	6898.18	-5.78	-19.90	29.65	0.08	35.71	123.86
7000.00	2.22	222.19	6998.09	-1.59	-23.15	26.99	0.44	35.56	130.61
7100.00	2.15	236.38	7098.01	2.18	-25.62	24.13	0.54	35.19	136.72
7200.00	2.39	244.00	7197.94	5.95	-27.57	20.69	0.39	34.47	143.11
7300.00	2.60	246.47	7297.84	9.98	-29.39	16.74	0.24	33.82	150.34
7400.00	2.98	243.64	7397.72	14.50	-31.45	12.33	0.40	33.78	158.59
7500.00	3.18	238.28	7497.58	19.61	-34.06	7.64	0.35	34.91	167.35
7600.00	3.24	231.05	7597.42	25.09	-37.30	3.09	0.41	37.43	175.27
7700.00	3.31	229.59	7697.26	30.76	-40.95	-1.31	0.11	40.97	181.83
7800.00	3.38	226.55	7797.09	36.57	-44.85	-5.65	0.19	45.20	187.18
7900.00	3.02	226.91	7896.93	42.14	-48.67	-9.71	0.36	49.63	191.28
8000.00	2.78	225.99	7996.80	47.19	-52.16	-13.38	0.24	53.85	194.39
8100.00	2.35	213.68	8096.70	51.64	-55.55	-16.26	0.70	57.88	196.32
8200.00	2.24	204.55	8196.62	55.51	-59.03	-18.21	0.38	61.78	197.14
8300.00	2.22	216.24	8296.55	59.29	-62.37	-20.17	0.45	65.55	197.92
8400.00	2.12	212.70	8396.48	63.03	-65.49	-22.31	0.17	69.19	198.81
8500.00	2.43	207.70	8496.40	66.89	-68.92	-24.30	0.37	73.08	199.42
8600.00	2.46	206.29	8596.31	70.99	-72.72	-26.23	0.07	77.31	199.83
8700.00	2.52	207.33	8696.21	75.15	-76.60	-28.19	0.08	81.62	200.21
8800.00	2.46	209.58	8796.12	79.36	-80.42	-30.26	0.11	85.93	200.62
8900.00	2.26	213.03	8896.03	83.38	-83.94	-32.39	0.25	89.97	201.10
9000.00	1.80	222.86	8995.97	86.89	-86.74	-34.54	0.58	93.37	201.71
9100.00	1.51	232.22	9095.93	89.77	-88.70	-36.65	0.40	95.98	202.45
9200.00	1.59	238.53	9195.89	92.40	-90.23	-38.87	0.19	98.25	203.31
9300.00	1.68	238.86	9295.85	95.15	-91.72	-41.31	0.09	100.59	204.25
9400.00	1.70	243.00	9395.81	97.96	-93.15	-43.89	0.12	102.97	205.23
9500.00	1.59	248.42	9495.77	100.61	-94.33	-46.50	0.19	105.17	206.24
9600.00	1.47	250.88	9595.73	103.00	-95.26	-49.00	0.14	107.13	207.22
9700.00	1.55	268.59	9695.70	105.09	-95.72	-51.56	0.47	108.72	208.31
9800.00	1.69	274.44	9795.66	106.96	-95.63	-54.39	0.22	110.02	209.63
9900.00	1.76	286.59	9895.61	108.57	-95.08	-57.33	0.37	111.03	211.09
10000.00	1.83	291.10	9995.56	109.85	-94.07	-60.29	0.16	111.73	212.66



Scientific  
Drilling

# Scientific Drilling International

## Survey Report

<b>Company:</b> XTO	<b>Date:</b> 03/03/2006	<b>Time:</b> 14:43:33	<b>Page:</b> 3
<b>Field:</b> State	<b>Co-ordinate(NE) Reference:</b>	<b>Site:</b> Andrews County, Texas, Grid North	
<b>Site:</b> Andrews County, Texas	<b>Vertical (TVD) Reference:</b>	<b>SITE</b> 0.0	
<b>Well:</b> State of Texas DD #1H	<b>Section (VS) Reference:</b>	<b>Well</b> (0.00N,0.00E,223.17Azi)	
<b>Wellpath:</b> VH - Job #32K0306164	<b>Survey Calculation Method:</b>	<b>Minimum Curvature</b>	<b>Db:</b> Sybase

### Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
10100.00	1.90	293.48	10095.51	111.01	-92.83	-63.30	0.10	112.36	214.29
10200.00	1.85	298.67	10195.46	111.98	-91.40	-66.24	0.18	112.88	215.93
10300.00	1.87	300.19	10295.41	112.75	-89.80	-69.06	0.05	113.29	217.56
10400.00	2.03	298.30	10395.35	113.57	-88.14	-72.03	0.17	113.83	219.26
10500.00	2.24	302.41	10495.28	114.39	-86.26	-75.24	0.26	114.46	221.10
10600.00	2.55	309.56	10595.19	114.89	-83.79	-78.61	0.43	114.89	223.17

## Surveying and Mapping for the Energy

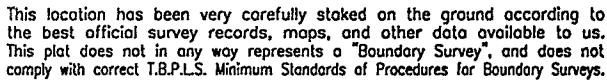
2903 N. BIG SPRING \* MIDLAND, TEXAS 79705  
TELEPHONES: (432) 682-1653 \* (800) 767-1653 \* FAX (432) 682-1743

ANDREWS County, Texas

Description 2192' FSL & 2173' FEL


SECTION 36, BLOCK 9, UNIVERSITY LAND SURVEY

FND. CONC. MON. FND. CONC. MON.  
NAD 27  
GRID BEARINGS



Date Staked FEBRUARY 11, 2006

SCALE: 1" = 1000'



0' 500' 1000'

Operator XTO ENERGY, INC.

Lease Name & Well No. STATE OF TEXAS DD #1H

Ground Elev. 3106' Reference Stakes or NONE

Alternate Location

Good Drill Site? YES Stakes Set ±11.0 MILES SOUTH OF ANDREWS, TEXAS

Topography & Vegetation EXISTING PAD

Best Accessibility to Location FROM EAST-WEST LEASE ROAD ±400' NORTH OF EXISTING WELL

### Distance & Direction

from Hwy Jct. or Town FROM JCT. OF US 385 & PAVED CO. RD. SW 5900, 8.0 MILES SOUTH OF

ANDREWS, GO SOUTHWEST 4.2 MILES ON CO. RD. SW 5900, THENCE SOUTH 0.1 MILES ON LEASE ROAD,

CONTINUING ON LEASE ROAD, WEST 0.1 MILES, THENCE SOUTH 0.5 MILES, THENCE EAST 0.2 MILES, THENCE

SOUTH 2.0 MILES, THENCE SOUTHEAST 0.2 MILES, THENCE EAST 1.5 MILES ON LEASE ROAD TO A POINT

±400' NORTH OF EXISTING WELL.



Invoice # 110705/726NE  
J.M.S.

**CERTIFICATION:**

I, William J. Keating, 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.

William J. Keating  
Texas Reg. No. 5041

# Well Completion Report

**XTO Energy**

**State of Texas DD #1H  
Andrews County, TX**

**42-003-07426**

**Tuesday, August 15, 2006**



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**INTEQ**

West Texas Area  
2105 Market Street  
Midland, Texas 79703  
24 Hr (432) 694-9517  
Fax (432) 694-5648





INTEQ

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

Tuesday, August 15, 2006

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

**Re: XTO Energy**  
Well Name: State of Texas DD #1H  
Section 36, Blk 9, University Land  
Andrews County, TX  
API # 42-003-07426

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 and 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	10600 - 12382	3/28/2006 - 4/10/2006	MWD

A certified plat on which the bottom hole location is oriented to the surface and to the lease line (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.

**Oscar Gomez**  
Well Planner

State of Texas DD #1H  
Andrews County, TX



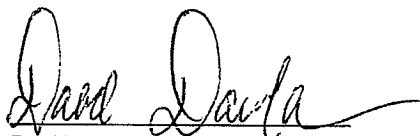
INTEQ

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

## 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 **3/28/2006** to **4/10/2006** conduct or supervise the taking of a MWD survey from a depth of **10600** to **12382** 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 **State of Texas DD #1H** API # **42-003-07426** in **Andrews County, TX**; 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

State of Texas DD #1H  
Andrews County, TX

# **Record of Survey**

**XTO Energy**

**State of Texas DD #1H  
Andrews County, TX**

**Tuesday, August 15, 2006**

# TOPOGRAPHIC LAND SURVEYORS OF TEXAS

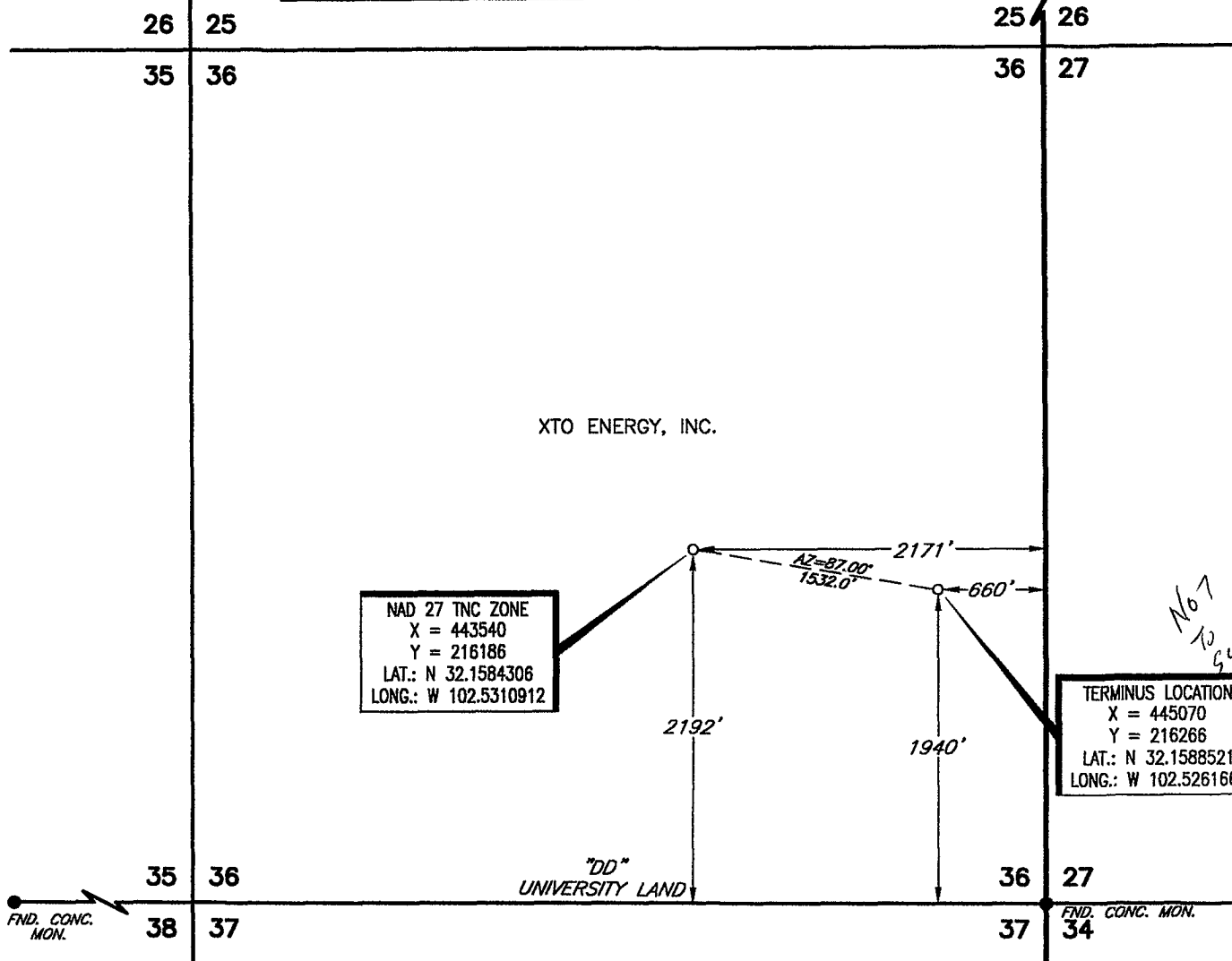
Surveying and Mapping for the Energy Industry

2903 N. BIG SPRING \* MIDLAND, TEXAS 79705  
TELEPHONES: (432) 682-1653 \* (800) 767-1653 \* FAX (432) 682-1743

ANDREWS County, Texas

Description 2192' FSL & 2171' FEL

SECTION 36, BLOCK 9, UNIVERSITY LAND SURVEY



This location has been very carefully staked on the ground according to the best official survey records, maps, and other data available to us. This plat does not in any way represent a "Boundary Survey", and does not comply with correct T.B.P.L.S. Minimum Standards of Procedures for Boundary Surveys.

Date Staked FEBRUARY 11, 2006

SCALE: 1" = 1000'

Operator XTO ENERGY, INC.

Lease Name & Well No. STATE OF TEXAS DD #1H

Ground Elev. 3106' Reference Stakes or NONE

Alternate Location

Good Drill Site? YES Stakes Set ±11.0 MILES SOUTH OF ANDREWS, TEXAS

Topography & Vegetation EXISTING PAD

Best Accessibility to Location FROM EAST-WEST LEASE ROAD ±400' NORTH OF EXISTING WELL

Distance & Direction

from Hwy Jct. or Town FROM JCT. OF US 385 & PAVED CO. RD. SW 5900, 8.0 MILES SOUTH OF

ANDREWS, GO SOUTHWEST 4.2 MILES ON CO. RD. SW 5900, THENCE SOUTH 0.1 MILES ON LEASE ROAD,

CONTINUING ON LEASE ROAD, WEST 0.1 MILES, THENCE SOUTH 0.5 MILES, THENCE EAST 0.2 MILES, THENCE

SOUTH 2.0 MILES, THENCE SOUTHEAST 0.2 MILES, THENCE EAST 1.5 MILES ON LEASE ROAD TO A POINT

±400' NORTH OF EXISTING WELL.

## CERTIFICATION:

I, William J. Keating, 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.

Invoice # 110705/726NE  
J.M.S.

Texas Reg. No. 5041



INTEQ

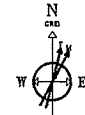
# XTO Energy

Structure : State of Texas DD #1H

Slot : slot #1

Field : University Land

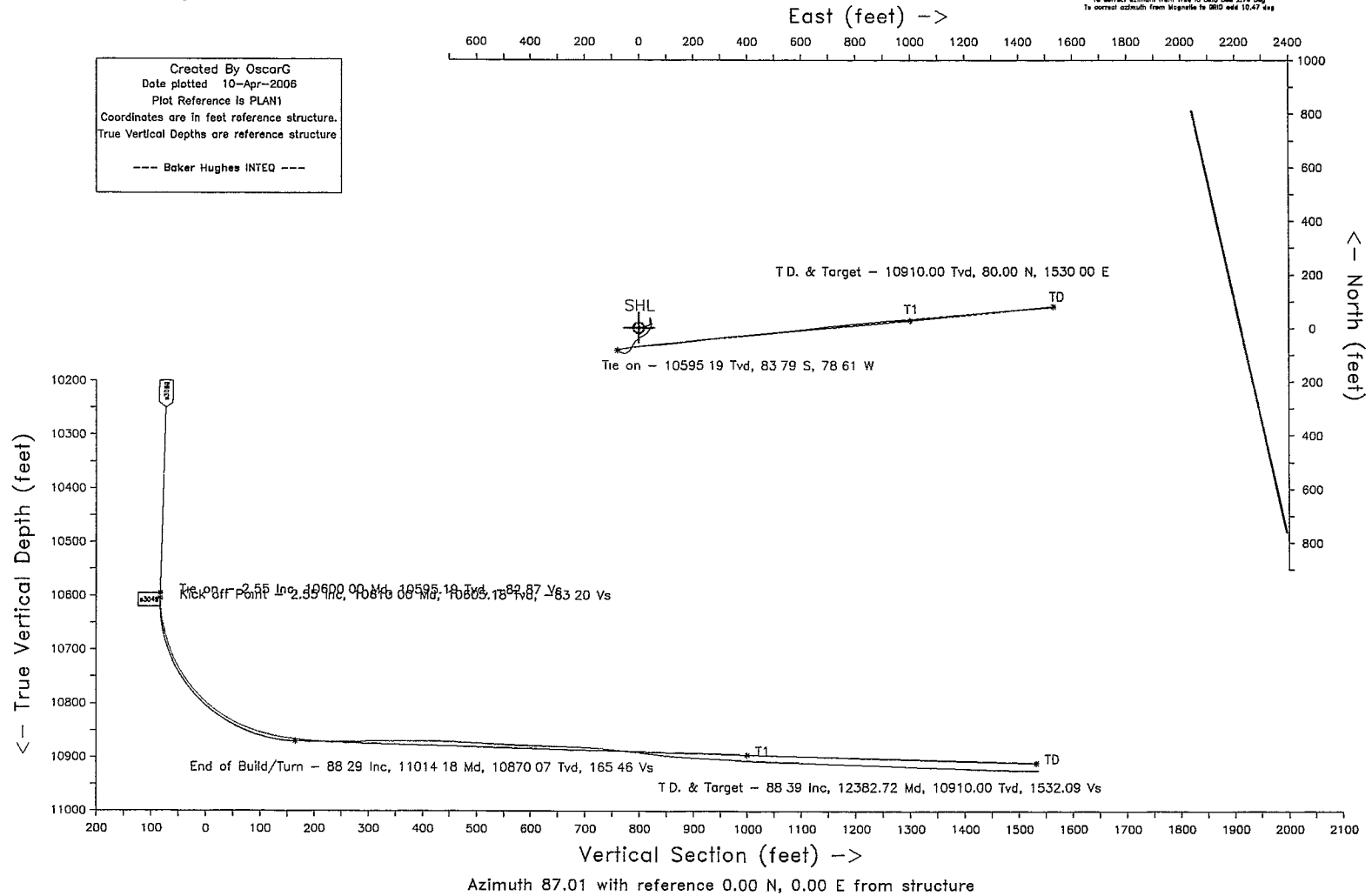
Location : ANDREWS COUNTY, TEXAS



3-Mar-2008 (Source: BGSN)  
Magnetic North is 2.73 degrees East of True North  
GRID North is 2.74 degrees West of True North  
To convert azimuth from True to GRID add 5.47 deg  
To convert azimuth from Magnetic to GRID add 10.47 deg

Created By OscarG  
Date plotted 10-Apr-2008  
Plot Reference is PLAN1  
Coordinates are in feet reference structure.  
True Vertical Depths are reference structure

--- Baker Hughes INTEQ ---





**INTEQ**

2105 market Street Midland, TX 79703 Ph. (432)694-9517 Fax. (432)694-5648

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## **Survey Report**

**XTO Energy, Inc.**

**State of Texas DD #1H**

**Andrews County, TX**

**MWD**

**Prepared By Oscar Gomez  
Monday, April 10, 2006**

XTO Energy  
State of Texas DD #1H, slot #1  
University Land, ANDREWS COUNTY, TEXAS

SURVEY LISTING Page 1  
Your ref : MWD  
Last revised : 10-Apr-2006

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
0.00	0.00	0.00	0.00	0.00 N	0.00 E	0.00	0.00
100.00	0.52	56.21	100.00	0.25 N	0.38 E	0.52	0.39
200.00	0.50	17.82	199.99	0.92 N	0.89 E	0.34	0.93
300.00	0.42	101.76	299.99	1.26 N	1.38 E	0.62	1.44
400.00	0.57	84.03	399.99	1.24 N	2.23 E	0.21	2.30
500.00	0.61	49.59	499.98	1.63 N	3.13 E	0.35	3.21
600.00	0.49	18.09	599.98	2.39 N	3.67 E	0.32	3.79
700.00	0.29	14.92	699.98	3.04 N	3.87 E	0.20	4.02
800.00	0.13	264.36	799.98	3.27 N	3.82 E	0.36	3.99
900.00	0.31	139.51	899.98	3.05 N	3.88 E	0.40	4.04
1000.00	0.26	347.22	999.98	3.07 N	4.01 E	0.55	4.16
1100.00	0.36	163.38	1099.98	2.99 N	4.05 E	0.62	4.20
1200.00	0.29	279.83	1199.97	2.73 N	3.89 E	0.55	4.03
1300.00	0.26	95.35	1299.97	2.75 N	3.87 E	0.55	4.01
1400.00	0.20	56.64	1399.97	2.83 N	4.24 E	0.16	4.38
1500.00	0.32	91.76	1499.97	2.92 N	4.66 E	0.19	4.81
1600.00	0.37	132.23	1599.97	2.69 N	5.18 E	0.24	5.31
1700.00	0.43	113.03	1699.97	2.33 N	5.77 E	0.15	5.88
1800.00	0.52	108.72	1799.96	2.03 N	6.54 E	0.10	6.64
1900.00	0.49	87.16	1899.96	1.91 N	7.40 E	0.19	7.49
2000.00	0.87	67.24	1999.95	2.22 N	8.53 E	0.44	8.63
2100.00	0.97	81.12	2099.94	2.65 N	10.06 E	0.24	10.19
2200.00	0.95	87.81	2199.93	2.81 N	11.73 E	0.11	11.86
2300.00	1.02	86.00	2299.91	2.91 N	13.44 E	0.08	13.58
2400.00	1.08	85.44	2399.90	3.04 N	15.27 E	0.06	15.41
2500.00	1.18	82.61	2499.88	3.25 N	17.23 E	0.11	17.38
2600.00	1.56	74.45	2599.85	3.75 N	19.56 E	0.43	19.73
2700.00	1.62	73.51	2699.81	4.51 N	22.23 E	0.07	22.43
2800.00	1.67	73.99	2799.77	5.32 N	24.99 E	0.05	25.23
2900.00	1.56	69.76	2899.73	6.19 N	27.66 E	0.16	27.95
3000.00	1.63	77.13	2999.69	6.98 N	30.33 E	0.22	30.65
3100.00	1.30	78.20	3099.66	7.53 N	32.82 E	0.33	33.17
3200.00	0.91	61.99	3199.64	8.13 N	34.64 E	0.50	35.01
3300.00	0.97	66.57	3299.62	8.84 N	36.11 E	0.10	36.53
3400.00	1.01	56.53	3399.61	9.66 N	37.63 E	0.18	38.08
3500.00	1.08	52.71	3499.59	10.72 N	39.11 E	0.10	39.62
3600.00	1.07	38.82	3599.58	12.02 N	40.45 E	0.26	41.02
3700.00	0.92	21.68	3699.56	13.49 N	41.33 E	0.33	41.97
3800.00	0.81	7.43	3799.55	14.94 N	41.72 E	0.24	42.44
3900.00	1.25	356.40	3899.53	16.73 N	41.74 E	0.48	42.55
4000.00	1.68	356.80	3999.50	19.28 N	41.59 E	0.43	42.54
4100.00	2.09	347.76	4099.45	22.53 N	41.12 E	0.51	42.24
4200.00	2.19	345.98	4199.38	26.16 N	40.27 E	0.12	41.58
4300.00	1.94	0.96	4299.31	29.71 N	39.84 E	0.59	41.33
4400.00	1.87	10.02	4399.26	33.01 N	40.15 E	0.31	41.81
4500.00	1.27	18.36	4499.22	35.67 N	40.78 E	0.64	42.59
4600.00	0.51	26.77	4599.21	37.11 N	41.33 E	0.77	43.21
4700.00	0.34	73.01	4699.20	37.60 N	41.81 E	0.37	43.72
4800.00	0.63	182.32	4799.20	37.14 N	42.08 E	0.81	43.96
4900.00	2.22	169.53	4899.17	34.68 N	42.41 E	1.61	44.16

All data is in feet unless otherwise stated.  
Coordinates from structure and TVD from rotary table.  
Bottom hole distance is 1536.37 on azimuth 87.13 degrees from wellhead.  
Vertical section is from N 0.00 E 0.00 on azimuth 87.01 degrees.  
Calculation uses the minimum curvature method.  
Presented by Baker Hughes INTEQ

XTO Energy  
State of Texas DD #1H, slot #1  
University Land, ANDREWS COUNTY, TEXAS

SURVEY LISTING Page 2  
Your ref : MWD  
Last revised : 10-Apr-2006

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
5000.00	1.74	151.49	4999.11	31.44 N	43.48 E	0.78	45.06
5100.00	0.98	177.76	5099.08	29.25 N	44.24 E	0.96	45.71
5200.00	0.99	159.87	5199.07	27.59 N	44.57 E	0.31	45.95
5300.00	1.12	159.93	5299.05	25.86 N	45.20 E	0.13	46.49
5400.00	0.96	157.76	5399.03	24.17 N	45.86 E	0.16	47.05
5500.00	1.15	165.75	5499.02	22.42 N	46.42 E	0.24	47.53
5600.00	1.16	169.37	5599.00	20.45 N	46.85 E	0.07	47.86
5700.00	1.29	172.68	5698.97	18.34 N	47.18 E	0.15	48.08
5800.00	1.50	181.26	5798.94	15.91 N	47.30 E	0.30	48.06
5900.00	1.56	187.61	5898.91	13.26 N	47.09 E	0.18	47.72
6000.00	1.91	193.20	5998.86	10.28 N	46.53 E	0.39	47.00
6100.00	1.79	195.78	6098.81	7.16 N	45.72 E	0.15	46.03
6200.00	1.93	200.78	6198.76	4.08 N	44.70 E	0.21	44.85
6300.00	2.03	203.06	6298.70	0.88 N	43.41 E	0.13	43.40
6400.00	2.17	210.51	6398.63	2.38 S	41.76 E	0.31	41.57
6500.00	2.45	213.95	6498.55	5.79 S	39.60 E	0.31	39.24
6600.00	2.32	215.59	6598.46	9.21 S	37.23 E	0.15	36.70
6700.00	2.44	214.61	6698.38	12.60 S	34.84 E	0.13	34.14
6800.00	2.61	215.08	6798.28	16.22 S	32.32 E	0.17	31.43
6900.00	2.60	216.88	6898.18	19.90 S	29.65 E	0.08	28.58
7000.00	2.22	222.19	6998.09	23.15 S	26.99 E	0.44	25.75
7100.00	2.15	236.38	7098.01	25.62 S	24.13 E	0.54	22.76
7200.00	2.39	244.00	7197.94	27.57 S	20.69 E	0.39	19.23
7300.00	2.60	246.47	7297.84	29.39 S	16.74 E	0.24	15.18
7400.00	2.98	243.64	7397.72	31.45 S	12.33 E	0.40	10.67
7500.00	3.18	238.28	7497.58	34.06 S	7.64 E	0.35	5.86
7600.00	3.24	231.05	7597.42	37.30 S	3.09 E	0.41	1.14
7700.00	3.31	229.59	7697.26	40.95 S	1.31 W	0.11	-3.44
7800.00	3.38	226.55	7797.09	44.85 S	5.65 W	0.19	-7.98
7900.00	3.02	226.91	7896.93	48.67 S	9.71 W	0.36	-12.24
8000.00	2.78	225.99	7996.80	52.16 S	13.38 W	0.24	-16.08
8100.00	2.35	213.68	8096.70	55.55 S	16.26 W	0.70	-19.14
8200.00	2.24	204.55	8196.62	59.03 S	18.21 W	0.38	-21.26
8300.00	2.22	216.24	8296.55	62.37 S	20.17 W	0.45	-23.39
8400.00	2.12	212.70	8396.48	65.49 S	22.31 W	0.17	-25.70
8500.00	2.43	207.70	8496.40	68.92 S	24.30 W	0.37	-27.86
8600.00	2.46	206.29	8596.31	72.72 S	26.23 W	0.07	-29.99
8700.00	2.52	207.33	8696.21	76.60 S	28.19 W	0.08	-32.15
8800.00	2.46	209.58	8796.12	80.42 S	30.26 W	0.11	-34.41
8900.00	2.26	213.03	8896.03	83.94 S	32.39 W	0.25	-36.73
9000.00	1.80	222.86	8995.97	86.74 S	34.54 W	0.58	-39.02
9100.00	1.51	232.22	9095.93	88.70 S	36.65 W	0.40	-41.22
9200.00	1.59	238.53	9195.89	90.23 S	38.87 W	0.19	-43.53
9300.00	1.68	238.86	9295.85	91.72 S	41.31 W	0.09	-46.04
9400.00	1.70	243.00	9395.81	93.15 S	43.89 W	0.12	-48.69
9500.00	1.59	248.42	9495.77	94.33 S	46.50 W	0.19	-51.36
9600.00	1.47	250.88	9595.73	95.26 S	49.00 W	0.14	-53.90
9700.00	1.55	268.59	9695.70	95.72 S	51.56 W	0.47	-56.49
9800.00	1.69	274.44	9795.66	95.63 S	54.39 W	0.22	-59.30
9900.00	1.76	286.59	9895.61	95.08 S	57.33 W	0.37	-62.21

All data is in feet unless otherwise stated.  
Coordinates from structure and TVD from rotary table.  
Bottom hole distance is 1536.37 on azimuth 87.13 degrees from wellhead.  
Vertical section is from N 0.00 E 0.00 on azimuth 87.01 degrees.  
Calculation uses the minimum curvature method.  
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
10000.00	1.83	291.10	9995.56	94.07 S	60.29 W	0.16	-65.11
10100.00	1.90	293.48	10095.51	92.83 S	63.30 W	0.10	-68.06
10200.00	1.85	298.67	10195.46	91.40 S	66.24 W	0.18	-70.91
10300.00	1.87	300.19	10295.41	89.80 S	69.06 W	0.05	-73.65
10400.00	2.03	298.30	10395.35	88.14 S	72.03 W	0.17	-76.53
10500.00	2.24	302.41	10495.28	86.26 S	75.24 W	0.26	-79.64
10600.00	2.55	309.56	10595.19	83.79 S	78.61 W	0.43	-82.87
10627.00	5.80	61.40	10622.14	82.76 S	77.87 W	26.48	-82.08
10659.00	11.10	79.00	10653.79	81.39 S	73.42 W	18.24	-77.57
10691.00	17.10	80.80	10684.81	80.05 S	65.75 W	18.80	-69.84
10722.00	24.30	81.10	10713.79	78.33 S	54.93 W	23.23	-58.95
10754.00	31.00	81.50	10742.12	76.09 S	40.26 W	20.95	-44.18
10785.00	38.10	81.50	10767.64	73.50 S	22.89 W	22.90	-26.69
10817.00	45.00	82.90	10791.57	70.64 S	1.87 W	21.76	-5.55
10848.00	52.50	84.60	10812.00	68.12 S	21.28 E	24.54	17.70
10880.00	59.90	86.10	10829.79	65.98 S	47.77 E	23.45	44.26
10911.00	67.10	86.10	10843.61	64.10 S	75.43 E	23.23	71.98
10941.00	73.70	84.10	10853.67	61.67 S	103.57 E	22.88	100.21
10972.00	79.60	83.00	10860.82	58.28 S	133.53 E	19.34	130.31
11004.00	82.30	83.20	10865.86	54.49 S	164.90 E	8.46	161.83
11035.00	84.70	83.20	10869.37	50.84 S	195.48 E	7.74	192.56
11067.00	88.70	83.00	10871.21	47.00 S	227.19 E	12.52	224.43
11098.00	90.30	83.20	10871.48	43.28 S	257.96 E	5.20	255.35
11130.00	91.80	83.20	10870.89	39.49 S	289.73 E	4.69	287.28
11161.00	91.00	82.90	10870.13	35.74 S	320.49 E	2.76	318.19
11193.00	89.80	83.20	10869.91	31.87 S	352.26 E	3.87	350.11
11225.00	89.90	83.90	10869.99	28.27 S	384.05 E	2.21	382.06
11256.00	89.50	85.00	10870.16	25.28 S	414.91 E	3.78	413.02
11288.00	88.30	84.60	10870.77	22.38 S	446.77 E	3.95	444.99
11320.00	87.00	84.60	10872.08	19.37 S	478.60 E	4.06	476.94
11351.00	87.60	84.60	10873.54	16.45 S	509.43 E	1.94	507.88
11382.00	86.90	84.30	10875.03	13.46 S	540.25 E	2.46	538.81
11414.00	86.90	83.90	10876.76	10.17 S	572.03 E	1.25	570.72
11445.00	87.70	83.90	10878.22	6.88 S	602.82 E	2.58	601.64
11477.00	88.90	82.90	10879.17	3.21 S	634.59 E	4.88	633.56
11508.00	88.60	82.90	10879.85	0.62 N	665.35 E	0.97	664.47
11540.00	87.00	83.60	10881.08	4.38 N	697.10 E	5.46	696.38
11571.00	84.60	84.30	10883.35	7.64 N	727.84 E	8.06	727.25
11603.00	83.80	84.30	10886.58	10.80 N	759.52 E	2.50	759.05
11635.00	83.30	84.30	10890.17	13.96 N	791.16 E	1.56	790.81
11665.00	83.10	85.00	10893.73	16.74 N	820.82 E	2.41	820.58
11697.00	84.20	84.60	10897.27	19.62 N	852.49 E	3.66	852.36
11728.00	85.90	84.30	10899.94	22.61 N	883.23 E	5.57	883.21
11760.00	86.60	85.40	10902.03	25.47 N	915.03 E	4.07	915.12
11791.00	87.30	85.40	10903.68	27.96 N	945.89 E	2.26	946.06
11823.00	87.00	85.00	10905.27	30.63 N	977.74 E	1.56	978.00
11855.00	87.10	85.40	10906.92	33.30 N	1009.58 E	1.29	1009.95
11885.00	87.70	85.00	10908.28	35.81 N	1039.45 E	2.40	1039.90
11916.00	88.20	84.60	10909.39	38.62 N	1070.30 E	2.07	1070.86
11948.00	88.50	84.60	10910.31	41.63 N	1102.14 E	0.94	1102.82

All data is in feet unless otherwise stated.  
Coordinates from structure and TVD from rotary table.  
Bottom hole distance is 1536.37 on azimuth 87.13 degrees from wellhead.  
Vertical section is from N 0.00 E 0.00 on azimuth 87.01 degrees.  
Calculation uses the minimum curvature method.  
Presented by Baker Hughes INTEQ

XTO Energy  
State of Texas DD #1H, slot #1  
University Land, ANDREWS COUNTY, TEXAS

SURVEY LISTING Page 4  
Your ref : MWD  
Last revised : 10-Apr-2006

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
11979.00	87.40	85.40	10911.42	44.33 N	1133.01 E	4.39	1133.78
12010.00	87.60	85.70	10912.77	46.73 N	1163.88 E	1.16	1164.74
12042.00	88.50	85.00	10913.86	49.33 N	1195.76 E	3.56	1196.70
12073.00	88.20	84.30	10914.75	52.22 N	1226.61 E	2.46	1227.66
12104.00	87.40	85.40	10915.94	55.00 N	1257.46 E	4.39	1258.62
12135.00	87.30	85.00	10917.38	57.59 N	1288.32 E	1.33	1289.57
12167.00	88.10	84.70	10918.66	60.46 N	1320.17 E	2.67	1321.52
12199.00	88.50	85.40	10919.61	63.22 N	1352.03 E	2.52	1353.49
12230.00	87.90	85.70	10920.59	65.62 N	1382.92 E	2.16	1384.46
12262.00	88.00	86.10	10921.73	67.91 N	1414.82 E	1.29	1416.44
12293.00	88.20	85.40	10922.76	70.20 N	1445.72 E	2.35	1447.41
12324.00	88.90	85.40	10923.54	72.69 N	1476.61 E	2.26	1478.39
12382.00	88.90	86.10	10924.66	76.99 N	1534.44 E	1.21	1536.36 Proj. to Bit

All data is in feet unless otherwise stated.  
Coordinates from structure and TVD from rotary table.  
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