



# 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

26 July 2006

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


**Subject:** Company: XTO (Cross Timbers)  
Lease Name: University 9 AB, Well #4  
RRC Lease ID No.: Not Assigned  
Field Name: University Block 9  
Survey Co.: UL  
County: Andrews  
API No: 42-003-00289

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>
Angel Guebara Field Technician	0'-10470	01/13/06	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.

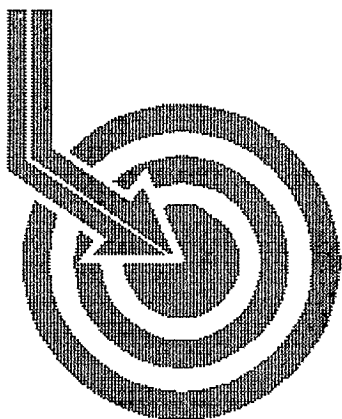
Regards,

  
Becky Wharton

Enclosures

cc:





# Scientific Drilling

**XTO**

**Field: University Block 9 (Devonian)**  
**Site: Andrews County, Texas**  
**Well: University 9 AB #4**  
**Wellpath: VH - Job #32K0106075**  
**Survey: 01/13/06**

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

*Richard* Company Representative



# Scientific Drilling International

## Survey Report

<b>Company:</b> XTO	<b>Date:</b> 07/27/2006	<b>Time:</b> 21:13:09	<b>Page:</b> 1
<b>Field:</b> University Block 9 (Devonian)	<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> University 9 AB #4	<b>Section (VS) Reference:</b>	<b>Well</b> (0.00N,0.00E,311.99Azi)	
<b>Wellpath:</b> VH - Job #32K0106075	<b>Survey Calculation Method:</b> Minimum Curvature	<b>Db:</b> Sybase	

<b>Survey:</b> 01/13/06	<b>Start Date:</b> 01/13/2006
<b>KSRG</b> 0'-10470'	
<b>Company:</b> Scientific Drilling Internatio	<b>Engineer:</b> Guebara/Carter w/Gray
<b>Tool:</b> Keeper;Keeper Gyro	<b>Tied-to:</b> From Surface

### Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.15	341.50	100.00	0.11	0.12	-0.04	0.15	0.13	341.50
200.00	0.19	3.80	200.00	0.33	0.41	-0.07	0.08	0.42	350.12
300.00	0.53	42.85	300.00	0.43	0.92	0.25	0.40	0.95	15.43
400.00	0.58	60.54	399.99	0.26	1.51	1.01	0.18	1.81	33.81
500.00	0.58	68.10	499.99	-0.13	1.94	1.92	0.08	2.73	44.63
600.00	0.38	89.16	599.98	-0.59	2.14	2.72	0.26	3.46	51.84
700.00	0.37	98.35	699.98	-1.10	2.10	3.37	0.06	3.97	58.13
800.00	0.44	95.88	799.98	-1.68	2.01	4.07	0.07	4.54	63.74
900.00	0.33	122.50	899.98	-2.28	1.82	4.70	0.21	5.04	68.87
1000.00	0.23	118.29	999.98	-2.76	1.57	5.12	0.10	5.35	72.99
1100.00	0.16	123.73	1099.98	-3.09	1.39	5.41	0.07	5.59	75.56
1200.00	0.16	66.59	1199.98	-3.29	1.37	5.65	0.15	5.82	76.37
1300.00	0.16	152.52	1299.98	-3.47	1.30	5.85	0.22	5.99	77.44
1400.00	0.03	264.22	1399.97	-3.59	1.18	5.89	0.17	6.00	78.70
1500.00	0.17	206.64	1499.97	-3.61	1.04	5.79	0.16	5.89	79.82
1600.00	0.13	210.54	1599.97	-3.67	0.81	5.67	0.04	5.73	81.87
1700.00	0.18	201.93	1699.97	-3.75	0.57	5.55	0.06	5.58	84.17
1800.00	0.16	206.54	1799.97	-3.84	0.30	5.43	0.02	5.44	86.88
1900.00	0.13	240.02	1899.97	-3.84	0.11	5.27	0.09	5.27	88.75
2000.00	0.25	25.08	1999.97	-3.74	0.26	5.26	0.36	5.27	87.22
2100.00	0.38	31.39	2099.97	-3.62	0.74	5.53	0.13	5.58	82.42
2200.00	0.34	27.03	2199.97	-3.48	1.28	5.84	0.05	5.98	77.60
2300.00	0.37	44.58	2299.97	-3.42	1.78	6.20	0.11	6.45	74.00
2400.00	0.38	45.59	2399.97	-3.45	2.24	6.66	0.01	7.03	71.42
2500.00	0.40	42.64	2499.96	-3.48	2.73	7.14	0.03	7.64	69.07
2600.00	0.41	58.63	2599.96	-3.58	3.17	7.68	0.11	8.31	67.55
2700.00	0.43	74.37	2699.96	-3.89	3.46	8.34	0.12	9.03	67.48
2800.00	0.47	84.99	2799.95	-4.37	3.60	9.11	0.09	9.80	68.47
2900.00	0.44	94.05	2899.95	-4.95	3.60	9.91	0.08	10.54	70.00
3000.00	0.52	115.83	2999.95	-5.69	3.38	10.70	0.20	11.22	72.47
3100.00	0.51	128.07	3099.94	-6.57	2.91	11.46	0.11	11.82	75.76
3200.00	0.43	137.66	3199.94	-7.39	2.36	12.06	0.11	12.29	78.95
3300.00	0.31	123.44	3299.94	-8.03	1.93	12.54	0.15	12.69	81.25
3400.00	0.40	133.98	3399.94	-8.64	1.54	13.01	0.11	13.11	83.26
3500.00	0.48	131.41	3499.93	-9.41	1.02	13.58	0.08	13.62	85.71
3600.00	0.78	149.42	3599.93	-10.48	0.16	14.24	0.36	14.24	89.37
3700.00	0.99	140.54	3699.92	-11.98	-1.10	15.14	0.25	15.18	94.15
3800.00	0.86	119.94	3799.90	-13.57	-2.14	16.34	0.35	16.47	97.46
3900.00	0.81	107.48	3899.89	-14.95	-2.73	17.66	0.19	17.87	98.77
4000.00	0.98	91.87	3999.88	-16.25	-2.97	19.19	0.30	19.42	98.79
4100.00	1.06	88.40	4099.86	-17.57	-2.97	20.97	0.10	21.18	98.06
4200.00	1.05	91.96	4199.85	-18.94	-2.97	22.81	0.07	23.00	97.43
4300.00	0.86	101.74	4299.83	-20.29	-3.16	24.46	0.25	24.66	97.36
4400.00	0.78	97.02	4399.82	-21.50	-3.39	25.87	0.10	26.09	97.47
4500.00	0.69	106.02	4499.82	-22.60	-3.64	27.12	0.15	27.37	97.65
4600.00	0.61	88.00	4599.81	-23.52	-3.79	28.23	0.22	28.49	97.65
4700.00	0.63	98.53	4699.80	-24.36	-3.85	29.31	0.12	29.56	97.49
4800.00	0.65	68.18	4799.80	-25.07	-3.72	30.38	0.34	30.61	96.99



# Scientific Drilling International

## Survey Report

<b>Company:</b> XTO	<b>Date:</b> 07/27/2006	<b>Time:</b> 21:13:09	<b>Page:</b> 2
<b>Field:</b> University Block 9 (Devonian)	<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> University 9 AB #4	<b>Section (VS) Reference:</b>	<b>Well</b> (0.00N,0.00E,311.99Azi)	
<b>Wellpath:</b> VH - Job #32K0106075	<b>Survey Calculation Method:</b> Minimum Curvature	<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
4900.00	0.67	68.11	4899.79	-25.58	-3.30	31.45	0.02	31.62	95.98
5000.00	0.70	47.41	4999.78	-25.89	-2.66	32.44	0.25	32.55	94.69
5100.00	0.77	48.35	5099.78	-26.03	-1.80	33.39	0.07	33.44	93.09
5200.00	0.86	45.28	5199.77	-26.14	-0.83	34.43	0.10	34.44	91.38
5300.00	0.88	48.65	5299.75	-26.28	0.21	35.54	0.05	35.54	89.67
5400.00	0.98	49.66	5399.74	-26.48	1.27	36.77	0.10	36.79	88.03
5500.00	1.12	46.64	5499.72	-26.67	2.49	38.13	0.15	38.21	86.26
5600.00	1.26	40.59	5599.70	-26.73	4.00	39.55	0.19	39.76	84.23
5700.00	1.40	32.81	5699.68	-26.50	5.86	40.93	0.23	41.35	81.85
5800.00	1.37	34.30	5799.65	-26.15	7.87	42.27	0.05	42.99	79.45
5900.00	1.67	28.93	5899.61	-25.66	10.14	43.65	0.33	44.81	76.93
6000.00	2.35	28.81	5999.55	-24.86	13.21	45.34	0.68	47.22	73.76
6100.00	2.42	31.49	6099.46	-24.01	16.80	47.43	0.13	50.32	70.49
6200.00	2.61	30.01	6199.37	-23.15	20.58	49.67	0.20	53.76	67.50
6300.00	2.51	33.24	6299.27	-22.35	24.38	52.01	0.18	57.44	64.89
6400.00	2.35	39.36	6399.18	-21.92	27.80	54.51	0.30	61.19	62.98
6500.00	2.53	39.51	6499.09	-21.73	31.08	57.22	0.18	65.11	61.49
6600.00	2.42	36.59	6598.99	-21.44	34.48	59.88	0.17	69.10	60.06
6700.00	2.36	40.29	6698.91	-21.18	37.75	62.47	0.17	72.99	58.86
6800.00	2.39	45.49	6798.82	-21.24	40.78	65.29	0.22	76.98	58.01
6900.00	2.41	43.65	6898.73	-21.43	43.76	68.22	0.08	81.05	57.32
7000.00	2.34	33.91	6998.65	-21.20	46.98	70.81	0.41	84.98	56.44
7100.00	1.81	5.45	7098.58	-19.98	50.24	72.10	1.14	87.88	55.13
7200.00	3.08	341.15	7198.49	-16.69	54.36	71.39	1.61	89.73	52.71
7300.00	3.86	327.18	7298.31	-11.10	59.73	68.69	1.14	91.03	48.99
7400.00	4.09	318.34	7398.07	-4.30	65.22	64.50	0.65	91.73	44.68
7500.00	4.25	305.97	7497.81	2.93	70.06	59.13	0.91	91.68	40.16
7600.00	4.17	287.29	7597.54	9.91	73.32	52.66	1.37	90.27	35.69
7700.00	4.23	277.16	7697.28	16.24	74.86	45.53	0.74	87.62	31.31
7800.00	4.11	262.16	7797.01	21.58	74.83	38.32	1.09	84.07	27.11
7900.00	4.13	265.99	7896.76	26.40	74.09	31.18	0.28	80.38	22.82
8000.00	3.92	266.25	7996.51	31.28	73.62	24.17	0.21	77.48	18.18
8100.00	3.83	266.74	8096.28	36.02	73.20	17.43	0.10	75.25	13.39
8200.00	3.83	269.24	8196.06	40.82	72.97	10.75	0.17	73.76	8.38
8300.00	3.48	270.76	8295.85	45.56	72.97	4.38	0.36	73.10	3.43
8400.00	3.42	273.59	8395.67	50.18	73.19	-1.63	0.18	73.21	358.72
8500.00	3.65	273.60	8495.48	55.01	73.58	-7.79	0.23	73.99	353.96
8600.00	3.67	276.58	8595.28	60.12	74.15	-14.14	0.19	75.48	349.20
8700.00	3.78	276.93	8695.07	65.42	74.91	-20.59	0.11	77.69	344.63
8800.00	3.78	276.58	8794.85	70.81	75.69	-27.14	0.02	80.40	340.27
8900.00	3.60	279.13	8894.64	76.13	76.56	-33.52	0.24	83.58	336.36
9000.00	3.40	279.85	8994.46	81.28	77.57	-39.54	0.20	87.06	332.99
9100.00	3.40	284.38	9094.28	86.42	78.81	-45.33	0.27	90.92	330.09
9200.00	3.30	285.84	9194.11	91.63	80.33	-50.97	0.13	95.14	327.60
9300.00	3.28	286.95	9293.94	96.80	81.95	-56.48	0.07	99.53	325.43
9400.00	3.17	290.91	9393.79	101.98	83.77	-61.80	0.25	104.10	323.59
9500.00	3.12	289.27	9493.64	107.07	85.66	-66.95	0.10	108.72	321.99
9600.00	2.92	289.54	9593.50	111.93	87.41	-71.92	0.20	113.19	320.55
9700.00	2.78	293.18	9693.37	116.58	89.21	-76.55	0.23	117.55	319.37
9800.00	3.14	290.80	9793.24	121.43	91.14	-81.34	0.38	122.16	318.25
9900.00	3.08	289.99	9893.09	126.47	93.03	-86.42	0.07	126.98	317.11
10000.00	2.71	285.85	9992.96	131.09	94.60	-91.22	0.42	131.41	316.04



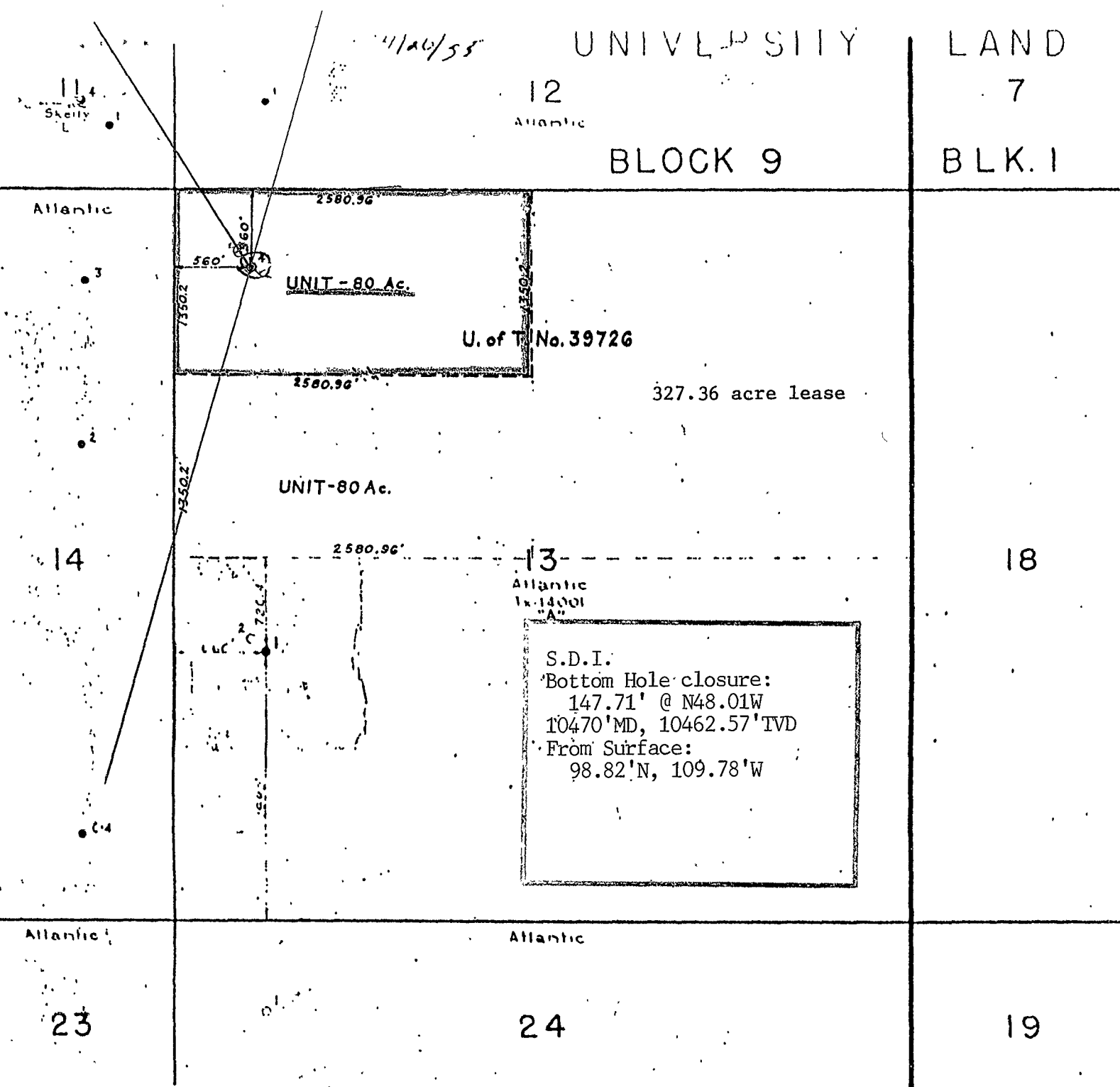
# Scientific Drilling International

## Survey Report

Company:	XTO	Date:	07/27/2006	Time:	21:13:09	Page:	3
Field:	University Block 9 (Devonian)	Co-ordinate(NE) Reference:	Site: Andrews County, Texas, Grid North				
Site:	Andrews County, Texas	Vertical (TVD) Reference:	SITE 0.0				
Well:	University 9 AB #4	Section (VS) Reference:	Well (0.00N,0.00E,311.99Azi)				
Wellpath:	VH - Job #32K0106075	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
10100.00	2.58	285.60	10092.86	135.22	95.85	-95.66	0.13	135.42	315.06
10200.00	2.49	286.19	10192.76	139.20	97.06	-99.92	0.09	139.30	314.17
10300.00	2.21	280.38	10292.68	142.79	98.01	-103.90	0.37	142.83	313.33
10400.00	2.01	281.81	10392.61	145.95	98.72	-107.51	0.21	145.96	312.56
10470.00	1.77	261.91	10462.57	147.71	98.82	-109.78	0.99	147.71	311.99



Operator

CROSS TIMBERS OPERATING COMPANY

Lease

UNIVERSITY 9 "AB"

Field

UNIVERSITY BLOCK 9

Description

N/2 Sec. 13, Univ. Land Blk. 9, Andrews Co., Texas.

Date plat drawn

April 20, 1955

Acres covered by this plat

327.36 Ac.

Total acres in lease

327.36 Ac.

Tx-13993

SCALE: 1"=1000'

THE ATLANTIC REFINING COMPANY  
SURVEY - LAND DIVISION

SUR-  
DRN:JJA

APPROVED:

DATE 4-20-55  
BY 6-7-55





State of Texas  
County of Midland

I, Angel Guebara, certify that; I am employed by Scientific Drilling International; that I did on the day(s) of 01/13/06 through 01/13/06 conduct or supervise the taking of a Keeper Gyro survey from a depth of 0 feet to a depth of 10470 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 (Cross Timbers) for the University 9 AB #4 Well, API# 42-003-00289 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.

Angel Guebara  
Field Technician



**INTEQ**

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

Friday, March 31, 2006

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

**Re: XTO Energy Inc.  
Well Name: University 9AB #4H  
Section 13, Block 9, University Land  
Andrews County, TX  
API # 42-003-00289**

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>
Calvin Jones Surveyor	1	10445 - 11597	3/3/2006 - 3/9/2006	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**

University 9AB #4H  
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, **Calvin Jones**, Certify that; I am employed by Baker Hughes INTEQ; that I did on the day(s) of **3/3/2006** to **3/9/2006** conduct or supervise the taking of a MWD survey from a depth of **10445** to **11597** 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 Inc.** for the **University 9AB #4H** API # **42-003-00289** 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.

A handwritten signature in black ink, appearing to read 'Calvin Jones', written over a horizontal line.

**Calvin Jones  
Surveyor**

University 9AB #4H  
Andrews County, TX

# **Well Completion Report**

**XTO Energy Inc.**

**University 9AB #4H  
Andrews County, TX**

**42-003-00289**

**Friday, March 31, 2006**



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**INTEQ**

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

# **Record of Survey**

**XTO Energy Inc.**

**University 9AB #4H  
Andrews County, TX**

**Friday, March 31, 2006**

# TOPOGRAPHIC LAND SURVEYORS OF TEXAS

Surveying and Mapping for the Energy Industry

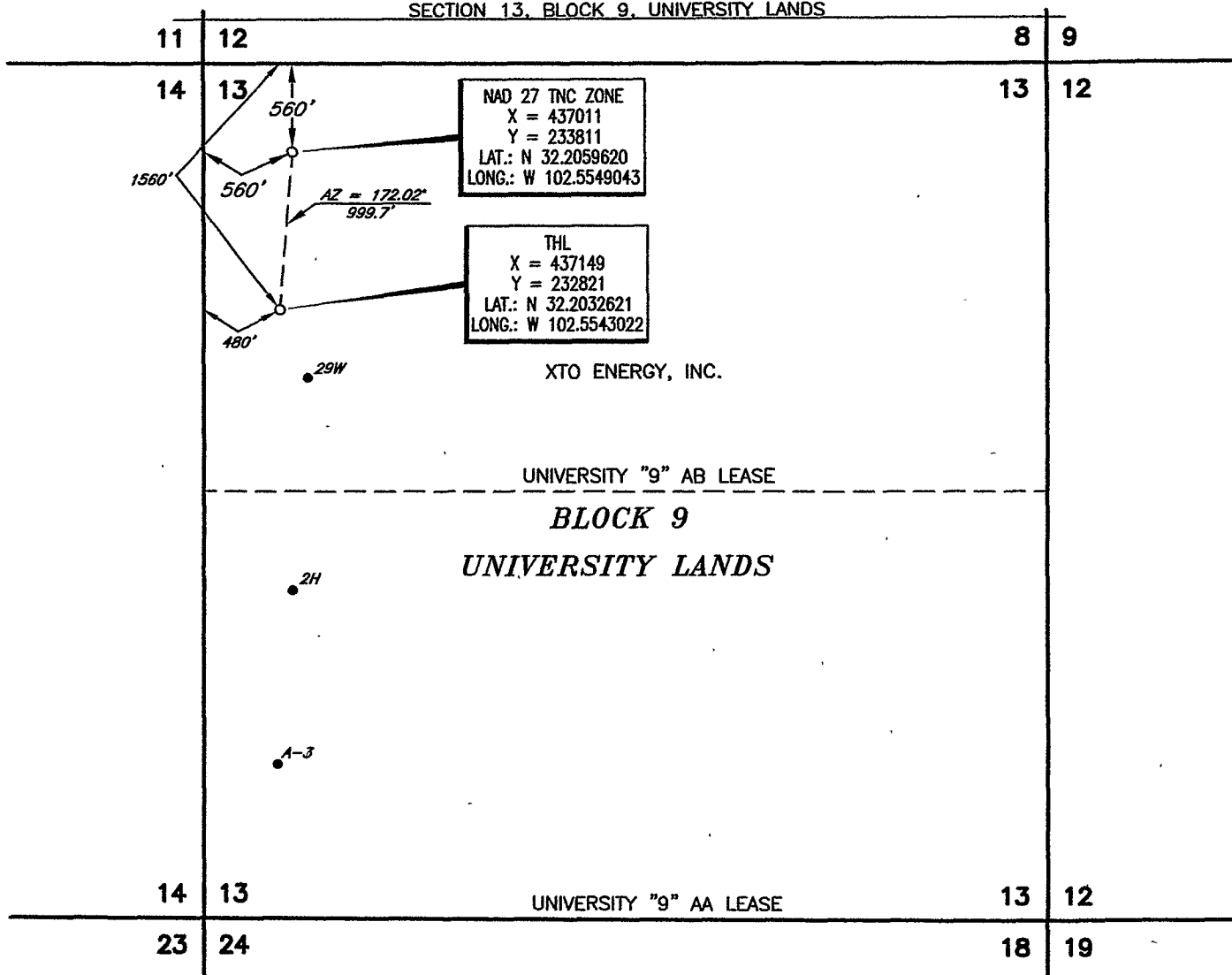
2903 N. BIG SPRING \* MIDLAND, TEXAS 79705  
TELEPHONES: (915) 682-1653 \* (800) 767-1653 \* FAX (915) 682-1743

ANDREWS

County, Texas

Description 560' FNL & 560' FWL

SECTION 13, BLOCK 9, UNIVERSITY LANDS



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 JANUARY 11, 2006

SCALE: 1" = 1000'

0' 500' 1000'

Operator **XTO ENERGY, INC.**

Lease Name & Well No. UNIVERSITY 9 "AB" #4H

Ground Elev. 3154' Reference Stakes or NONE

Alternate Location

Good Drill Site? YES Stakes Set **±7.7 MILES SOUTH OF ANDREWS, TEXAS**

Topography & Vegetation SANDY NATURAL PASTURE W/ SCATTERED MESQUITE

Best Accessibility to Location FROM LEASE ROAD ±200' SOUTH OF THE LOCATION

Distance & Direction

from Hwy Jct. or Town FROM JCT. OF U.S. 385 & PAVED CO. RD. "SW 5900" 7.9 SOUTH OF ANDREWS

GO WEST 2.4 MILES ON "SW 5900", THENCE NORTH 0.5 MILES ON LEASE ROAD, THENCE WEST ON LEASE

ROAD 0.4 MILES TO A POINT ±200' SOUTH OF THE LOCATION.



## 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

Invoice # 109731/726NE  
E.U.O.



INTEQ

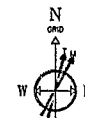
# XTO Energy

Structure : University 9 AB #4H

Slot : slot #1

Field : University Land

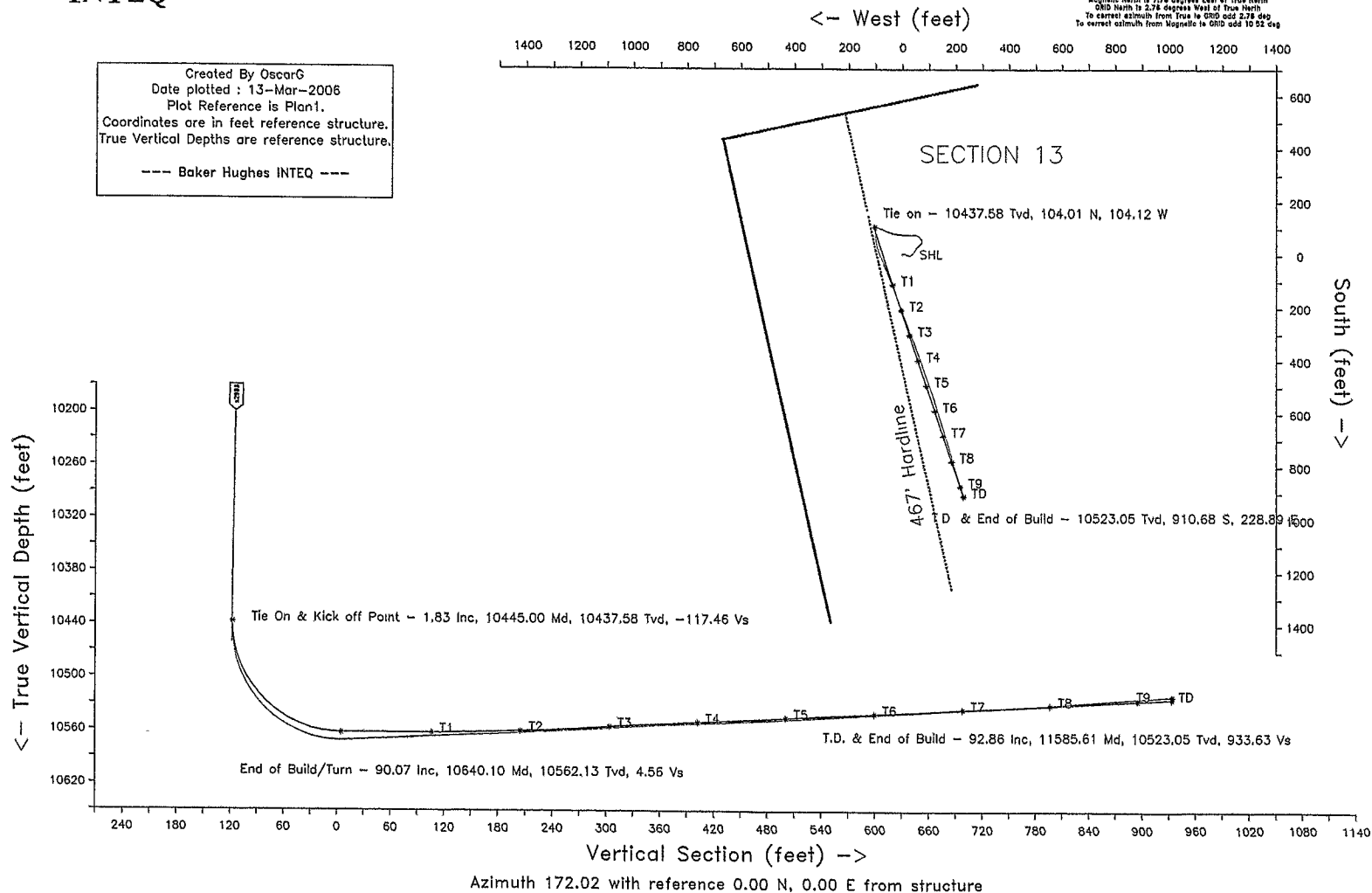
Location : ANDREWS COUNTY, TEXAS



12-Nov-2004 (Source: BGS)  
Magnetic North is 7.78 degrees East of True North  
GRID North is 2.78 degrees West of True North  
To correct azimuth from True to GRID add 2.78 deg  
To correct azimuth from Magnetic to GRID add 10.52 deg

Created By OscarG  
Date plotted : 13-Mar-2006  
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**

**University 9 AB #4H**

**Andrews County, TX**

**MWD**

**Prepared By Oscar Gomez  
Monday, March 13, 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	0.15	344.26	100.00	0.13 N	0.04 W	0.15	-0.13
200.00	0.19	6.56	200.00	0.42 N	0.05 W	0.08	-0.42
300.00	0.53	45.61	300.00	0.90 N	0.30 E	0.40	-0.81
400.00	0.58	63.30	399.99	1.46 N	1.08 E	0.18	-1.15
500.00	0.58	70.86	499.99	1.85 N	2.01 E	0.08	-1.30
600.00	0.38	91.92	599.98	2.00 N	2.82 E	0.26	-1.26
700.00	0.37	101.11	699.98	1.93 N	3.47 E	0.06	-1.03
800.00	0.44	98.64	799.98	1.81 N	4.16 E	0.07	-0.74
900.00	0.33	125.26	899.98	1.59 N	4.78 E	0.21	-0.37
1000.00	0.23	121.05	999.98	1.32 N	5.19 E	0.10	-0.01
1100.00	0.16	126.49	1099.98	1.13 N	5.47 E	0.07	0.24
1200.00	0.16	69.35	1199.98	1.10 N	5.71 E	0.15	0.33
1300.00	0.16	155.28	1299.98	1.02 N	5.90 E	0.22	0.45
1400.00	0.03	266.98	1399.97	0.89 N	5.93 E	0.17	0.58
1500.00	0.17	209.40	1499.97	0.76 N	5.84 E	0.16	0.69
1600.00	0.13	213.30	1599.97	0.54 N	5.70 E	0.04	0.87
1700.00	0.18	204.69	1699.97	0.30 N	5.57 E	0.06	1.07
1800.00	0.16	209.30	1799.97	0.03 N	5.44 E	0.02	1.29
1900.00	0.13	242.78	1899.97	0.14 S	5.27 E	0.09	1.42
2000.00	0.25	27.84	1999.97	0.00 N	5.27 E	0.36	1.28
2100.00	0.38	34.15	2099.97	0.47 N	5.56 E	0.13	0.90
2200.00	0.34	29.79	2199.97	1.00 N	5.89 E	0.05	0.47
2300.00	0.37	47.34	2299.97	1.48 N	6.28 E	0.11	0.10
2400.00	0.38	48.35	2399.97	1.92 N	6.76 E	0.01	-0.21
2500.00	0.40	45.40	2499.96	2.38 N	7.26 E	0.03	-0.54
2600.00	0.41	61.39	2599.96	2.80 N	7.82 E	0.11	-0.81
2700.00	0.43	77.13	2699.96	3.05 N	8.50 E	0.12	-0.89
2800.00	0.47	87.75	2799.95	3.15 N	9.28 E	0.09	-0.80
2900.00	0.44	96.81	2899.95	3.12 N	10.07 E	0.08	-0.57
3000.00	0.52	118.59	2999.95	2.86 N	10.85 E	0.20	-0.13
3100.00	0.51	130.83	3099.94	2.35 N	11.58 E	0.11	0.54
3200.00	0.43	140.42	3199.94	1.77 N	12.16 E	0.11	1.25
3300.00	0.31	126.20	3299.94	1.32 N	12.62 E	0.15	1.79
3400.00	0.40	136.74	3399.94	0.91 N	13.07 E	0.11	2.31
3500.00	0.48	134.17	3499.93	0.36 N	13.61 E	0.08	2.97
3600.00	0.78	152.18	3599.93	0.53 S	14.23 E	0.36	3.98
3700.00	0.99	143.30	3699.92	1.83 S	15.07 E	0.25	5.44
3800.00	0.86	122.70	3799.90	2.92 S	16.21 E	0.35	6.79
3900.00	0.81	110.24	3899.89	3.57 S	17.51 E	0.19	7.73
4000.00	0.98	94.63	3999.88	3.89 S	19.02 E	0.30	8.41
4100.00	1.06	91.16	4099.86	3.97 S	20.80 E	0.10	8.93
4200.00	1.05	94.72	4199.85	4.07 S	22.64 E	0.07	9.46
4300.00	0.86	104.50	4299.83	4.33 S	24.28 E	0.25	10.12
4400.00	0.78	99.78	4399.82	4.64 S	25.68 E	0.10	10.75
4500.00	0.69	108.78	4499.82	4.94 S	26.92 E	0.15	11.36
4600.00	0.61	90.76	4599.81	5.15 S	28.02 E	0.22	11.82
4700.00	0.63	101.29	4699.80	5.26 S	29.09 E	0.12	12.19
4800.00	0.65	70.94	4799.80	5.18 S	30.17 E	0.34	12.38
4900.00	0.67	70.87	4899.79	4.81 S	31.25 E	0.02	12.28

All data is in feet unless otherwise stated.  
Coordinates from structure and TVD from rotary table.  
Bottom hole distance is 938.45 on azimuth 165.86 degrees from wellhead.  
Vertical section is from N 0.00 W 0.00 on azimuth 165.89 degrees.  
Calculation uses the minimum curvature method.  
Presented by Baker Hughes INTEQ

XTO Energy  
University 9 AB #4H,slot #1  
University Land,ANDREWS COUNTY, TEXAS

SURVEY LISTING Page 2  
Your ref : MWD  
Last revised : 9-Mar-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	0.70	50.17	4999.78	4.22 S	32.28 E	0.25	11.96
5100.00	0.77	51.11	5099.78	3.41 S	33.27 E	0.07	11.42
5200.00	0.86	48.04	5199.77	2.49 S	34.35 E	0.10	10.79
5300.00	0.88	51.41	5299.75	1.51 S	35.51 E	0.05	10.12
5400.00	0.98	52.42	5399.74	0.51 S	36.78 E	0.10	9.46
5500.00	1.12	49.40	5499.72	0.65 N	38.20 E	0.15	8.68
5600.00	1.26	43.35	5599.70	2.09 N	39.70 E	0.19	7.65
5700.00	1.40	35.57	5699.68	3.88 N	41.17 E	0.23	6.27
5800.00	1.37	37.06	5799.65	5.83 N	42.60 E	0.05	4.73
5900.00	1.67	31.69	5899.61	8.02 N	44.08 E	0.33	2.97
6000.00	2.35	31.57	5999.55	11.01 N	45.92 E	0.68	0.52
6100.00	2.42	34.25	6099.46	14.50 N	48.18 E	0.13	-2.32
6200.00	2.61	32.77	6199.37	18.16 N	50.60 E	0.20	-5.28
6300.00	2.51	36.00	6299.27	21.85 N	53.12 E	0.18	-8.24
6400.00	2.35	42.12	6399.18	25.14 N	55.79 E	0.30	-10.78
6500.00	2.53	42.27	6499.09	28.29 N	58.65 E	0.18	-13.14
6600.00	2.42	39.35	6598.99	31.56 N	61.47 E	0.17	-15.62
6700.00	2.36	43.05	6698.91	34.70 N	64.21 E	0.17	-17.99
6800.00	2.39	48.25	6798.82	37.59 N	67.17 E	0.22	-20.08
6900.00	2.41	46.41	6898.73	40.43 N	70.25 E	0.08	-22.08
7000.00	2.34	36.67	6998.65	43.51 N	72.99 E	0.41	-24.41
7100.00	1.81	8.21	7098.58	46.71 N	74.44 E	1.14	-27.16
7200.00	3.08	343.91	7198.49	50.86 N	73.92 E	1.61	-31.30
7300.00	3.86	329.94	7298.31	56.35 N	71.49 E	1.14	-37.23
7400.00	4.09	321.10	7398.07	62.04 N	67.56 E	0.65	-43.70
7500.00	4.25	308.73	7497.81	67.14 N	62.43 E	0.91	-49.89
7600.00	4.17	290.05	7597.54	70.70 N	56.13 E	1.37	-54.89
7700.00	4.23	279.92	7697.28	72.58 N	49.08 E	0.74	-58.43
7800.00	4.11	264.92	7797.01	72.90 N	41.88 E	1.09	-60.49
7900.00	4.13	268.75	7896.76	72.51 N	34.71 E	0.28	-61.86
8000.00	3.92	269.01	7996.51	72.37 N	27.69 E	0.21	-63.43
8100.00	3.83	269.50	8096.28	72.28 N	20.93 E	0.10	-65.00
8200.00	3.83	272.00	8196.06	72.37 N	14.25 E	0.17	-66.71
8300.00	3.48	273.52	8295.85	72.67 N	7.89 E	0.36	-68.55
8400.00	3.42	276.35	8395.67	73.19 N	1.89 E	0.18	-70.52
8500.00	3.65	276.36	8495.48	73.87 N	4.23 W	0.23	-72.67
8600.00	3.67	279.34	8595.28	74.74 N	10.56 W	0.19	-75.06
8700.00	3.78	279.69	8695.07	75.81 N	16.96 W	0.11	-77.66
8800.00	3.78	279.34	8794.85	76.90 N	23.47 W	0.02	-80.30
8900.00	3.60	281.89	8894.64	78.09 N	29.79 W	0.24	-82.99
9000.00	3.40	282.61	8994.46	79.38 N	35.76 W	0.20	-85.70
9100.00	3.40	287.14	9094.28	80.90 N	41.48 W	0.27	-88.57
9200.00	3.30	288.60	9194.11	82.69 N	47.04 W	0.13	-91.67
9300.00	3.28	289.71	9293.94	84.58 N	52.47 W	0.07	-94.82
9400.00	3.17	293.67	9393.79	86.65 N	57.69 W	0.25	-98.10
9500.00	3.12	292.03	9493.64	88.78 N	62.75 W	0.10	-101.40
9600.00	2.92	292.30	9593.50	90.77 N	67.63 W	0.20	-104.52
9700.00	2.78	295.94	9693.37	92.80 N	72.16 W	0.23	-107.59
9800.00	3.14	293.56	9793.24	94.95 N	76.85 W	0.38	-110.82
9900.00	3.08	292.75	9893.09	97.09 N	81.84 W	0.07	-114.11

All data is in feet unless otherwise stated.  
Coordinates from structure and TVD from rotary table.  
Bottom hole distance is 938.45 on azimuth 165.86 degrees from wellhead.  
Vertical section is from N 0.00 W 0.00 on azimuth 165.89 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	2.71	288.61	9992.96	98.88 N	86.56 W	0.42	-117.00
10100.00	2.58	288.36	10092.86	100.34 N	90.94 W	0.13	-119.48
10200.00	2.49	288.95	10192.76	101.76 N	95.13 W	0.09	-121.88
10300.00	2.21	283.14	10292.68	102.90 N	99.06 W	0.37	-123.95
10400.00	2.01	284.57	10392.61	103.78 N	102.63 W	0.21	-125.67
10445.00	1.83	272.35	10437.58	104.01 N	104.12 W	0.99	-126.25
10465.00	5.10	165.00	10457.56	103.16 N	104.20 W	29.54	-125.45
10482.00	12.10	165.00	10474.35	100.71 N	103.55 W	41.18	-122.91
10497.00	19.60	164.20	10488.77	96.76 N	102.45 W	50.02	-118.82
10514.00	26.80	167.70	10504.39	90.27 N	100.86 W	43.10	-112.13
10528.00	32.80	174.30	10516.54	83.40 N	99.81 W	48.79	-105.22
10543.00	39.60	176.80	10528.63	74.57 N	99.14 W	46.38	-96.49
10558.00	47.00	176.80	10539.54	64.31 N	98.56 W	49.33	-86.40
10574.00	55.40	174.70	10549.56	51.89 N	97.63 W	53.48	-74.12
10589.00	61.50	169.10	10557.41	39.25 N	95.81 W	51.61	-61.42
10606.00	68.90	163.40	10564.54	24.28 N	92.12 W	53.09	-46.01
10621.00	76.00	158.50	10569.06	10.78 N	87.45 W	56.65	-31.78
10637.00	85.20	157.10	10571.67	3.81 S	81.49 W	58.14	-16.17
10652.00	91.80	157.50	10572.07	17.64 S	75.70 W	44.08	-1.35
10669.00	92.50	158.20	10571.43	33.37 S	69.30 W	5.82	15.47
10684.00	92.70	158.70	10570.75	47.31 S	63.79 W	3.59	30.33
10700.00	92.80	158.50	10569.98	62.19 S	57.96 W	1.40	46.18
10732.00	93.00	158.50	10568.36	91.93 S	46.25 W	0.62	77.88
10763.00	92.30	158.90	10566.93	120.78 S	35.00 W	2.60	108.60
10795.00	92.40	159.20	10565.62	150.64 S	23.57 W	0.99	140.35
10827.00	92.40	158.90	10564.28	180.50 S	12.14 W	0.94	172.09
10858.00	92.50	159.60	10562.95	209.46 S	1.17 W	2.28	202.85
10890.00	92.80	159.20	10561.47	239.38 S	10.08 E	1.56	234.62
10922.00	93.30	159.90	10559.77	269.32 S	21.25 E	2.69	266.37
10953.00	93.60	159.90	10557.90	298.38 S	31.88 E	0.97	297.15
10985.00	93.40	159.90	10555.95	328.37 S	42.86 E	0.62	328.92
11017.00	92.50	159.90	10554.30	358.39 S	53.84 E	2.81	360.70
11048.00	92.30	159.90	10553.00	387.47 S	64.48 E	0.65	391.50
11080.00	92.50	160.30	10551.66	417.53 S	75.37 E	1.40	423.31
11112.00	92.70	160.60	10550.21	447.66 S	86.06 E	1.13	455.13
11143.00	92.60	161.00	10548.78	476.90 S	96.25 E	1.33	485.98
11174.00	93.20	161.30	10547.21	506.20 S	106.25 E	2.16	516.83
11206.00	93.30	162.40	10545.40	536.56 S	116.20 E	3.45	548.70
11237.00	93.60	162.40	10543.53	566.06 S	125.56 E	0.97	579.59
11269.00	93.50	162.40	10541.55	596.50 S	135.22 E	0.31	611.47
11301.00	92.80	162.70	10539.79	626.98 S	144.80 E	2.38	643.36
11332.00	92.90	163.10	10538.25	656.57 S	153.90 E	1.33	674.28
11364.00	93.20	163.40	10536.55	687.17 S	163.11 E	1.32	706.20
11394.00	93.30	163.40	10534.85	715.88 S	171.67 E	0.33	736.13
11426.00	93.60	163.40	10532.92	746.49 S	180.79 E	0.94	768.04
11458.00	94.20	163.80	10530.74	777.11 S	189.81 E	2.25	799.94
11489.00	94.20	163.40	10528.47	806.77 S	198.54 E	1.29	830.83
11597.00	94.00	163.40	10520.75	910.01 S	229.31 E	0.19	938.45

All data is in feet unless otherwise stated.  
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Bottom hole distance is 938.45 on azimuth 165.86 degrees from wellhead.  
Vertical section is from N 0.00 W 0.00 on azimuth 165.89 degrees.  
Calculation uses the minimum curvature method.  
Presented by Baker Hughes INTEQ

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

ANDREWS

County, Texas

Description 560' FNL & 560' FWL

**SECTION 13, BLOCK 9, UNIVERSITY LANDS**

NAD 27  
GRID BEARINGS

11	12
----	----

14

13,

8

9

13

12

NAD 27 TNC ZONE  
X = 437011  
Y = 233811  
LAT.: N 32.2059620  
LONG.: W 102.5549043

320 Acrs

THL  
X = 437149  
Y = 232821  
LAT.: N 32.2032621  
LONG.: W 102.5543022

XTO ENERGY, INC.

11,597' MD, 10,520' TVD  
910'S AND 229'E

UNIVERSITY "9" AB LEASE

**BLOCK 9**

## UNIVERSITY LANDS

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 JANUARY 11, 2006

SCALE: 1" = 1000'

0' 500' 1000'

Operator XTO ENERGY, INC.

Lease Name & Well No. UNIVERSITY 9 "AB" #4H

Ground Elev. 3154' Reference Stakes or NONE

Alternate Location

Good Drill Site? YES

Stakes Set

**±7.7 MILES SOUTH OF ANDREWS, TEXAS**

Topography & Vegetation SANDY NATURAL PASTURE W/ SCATTERED MESQUITE

Best Accessibility to Location FROM LEASE ROAD ±200' SOUTH OF THE LOCATION

### Distance & Direction

from Hwy Jct. or Town FROM JCT. OF U.S. 385 & PAVED CO. RD. "SW 5900" 7.9 SOUTH OF ANDREWS

GO WEST 2.4 MILES ON "SW 5900", THENCE NORTH 0.5 MILES ON LEASE ROAD, THENCE WEST ON LEASE

ROAD 0.4 MILES TO A POINT  $\pm 200'$  SOUTH OF THE LOCATION.

**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.

\_\_\_\_\_  
 Texas Reg. No. 5041 ✓

Invoice # 109731/726NE  
E.U.O.

Texas Reg. No.