

Type or print only

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form W-2

Rev. 4/1/83

EAG0897

API No. 42-003-05161				7. RRC District No. 8	
Oil Well Potential Test, Completion or Recompletion Report, and Log				8. RRC Lease No. 39152	
1. FIELD NAME (as per RRC Records or Wildcat) University Block 9 (Devonian)		2. LEASE NAME University Block 9		9. Well No. 3A	
3. OPERATOR'S NAME (Exactly as shown on P-5, Organization Report) XTD Energy Inc.		RRC Operator No. 945936		10. County of well site Andrews	
4. ADDRESS 200 N. Loraine, Ste 800, Midland, Texas 79701				11. Purpose of filing Initial Potential <input type="checkbox"/>	
5. If Operator has changed within the last 60 days, name the former operator				Retest <input checked="" type="checkbox"/>	
6a. Location (Section, Block, and Survey) Sec. 11 Blk. 9 UL		6b. Distance and direction to nearest town in this county. 12 miles SW from Andrews		Reclass <input type="checkbox"/>	
12. If workover or reclass, give former field (with reservoir) & gas ID or oil lease no. FIELD & RESERVOIR		GAS ID or OIL LEASE #		Oil - O Gas - G	
13. Type of electric or other log run None		14. Completion or recompletion date 1/6/10		WELL NO. Well record only (explain in Remarks)	

SECTION I: POTENTIAL TEST DATA

IMPORTANT: Test should be for 24 hours unless otherwise specified in field rules.

15. Date of test 1/12/10	16. No. of hours tested 24	17. Production method (Flowing, Gas Lift, Jetting, Pumping - Size & Type of pump) 2-1/2 X 1-1/2 X 30'		18. Choke size
19. Production during Test Period	Oil - BBLS 167	Gas - MCF 134	Water - BBLS 182	Gas - Oil Ratio 802/1
20. Calculated 24- Hour Rate	Oil - BBLS	Gas - MCF	Water - BBLS	Oil Gravity - API - 60° 42.0
21. Was swab used during this test? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		22. Oil produced prior to test (New & Reworked wells)		23. Injection Gas-Oil Ratio
REMARKS: Drlg out CIBP @ 10378' & 10155'. Set 10115' plug to add 2nd lateral. Acdz both laterals & perfs. Drlg out plug @ 10115'. POH w/4-1/2" liner (10225-10394' MD), replace w/5-1/2" liner (Surf-10097' MD).				

INSTRUCTIONS: File an original and one copy of the completed Form W-2 in the appropriate RRC District Office within 30 days after completing a well and within 10 days after a potential test. If an operator does not properly report the results of a potential test within the 10-day period, the effective date of the allowable assigned to the well will not extend back more than 10 days before the W-2 was received in the District Office. (Statewide Rules 16 and 51) To report a completion or recompletion, fill in both sides of this form. To report a retest, fill in only the front side.

WELL TESTER'S CERTIFICATION

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I conducted or supervised this test by observation of (a) meter readings or (b) the top and bottom gauges of each tank into which production was run during the test. I further certify that the potential test data shown above is true, correct, and complete, to the best of my knowledge.

XTD Energy Inc.

Signature: Well Tester

Name of Company

RRC Representative

OPERATOR'S CERTIFICATION

I declare under the penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

DeeAnn Kemp

Typed or printed name of operator's representative

432-620-6724

Telephone: Area Code Number

Date: mo. day year

2 / 23 / 2010

Regulatory

Title of Person

Signature

2nd lat 189 N + 2556 W Sec 14

TVD 10.487

MD 12.350

Orig TD 10.600
of Vert WB

SECTION II DATA ON WELL COMPLETION AND LOG (Not Required on Retest)									
24. Type of Completion New Well <input type="checkbox"/> Deepening <input type="checkbox"/> Plug Back <input type="checkbox"/> Other <input checked="" type="checkbox"/>					25. Permit to Drill, Plug Back or, Deepen DATE 10/16/09 PERMIT NO. 682265 Rule 37 CASE NO. Exception Water Injection PERMIT NO. Permit Salt Water Disposal PERMIT NO. Permit Other PERMIT NO.				
26. Notice of Intention to Drill this well was filed in Name of XTO Energy Inc.									
27. Number of producing wells on this lease in this field (reservoir) including this well 58			28. Total number of acres in this lease 4819.5						
29. Date Plug Back, Deepening, Workover or Drilling Operations:		Commenced 11/7/09		Completed 11/24/09		30. Distance to nearest well, Same Lease & Reservoir			
31. Location of well, relative to nearest lease boundaries of lease on which this well is located					988 Feet from North Line and 328 Feet from East Line of the University "9" A Lease				
32. Elevation (DF, RKB, RT, GR, ETC.) 3162' GL					33. Was directional survey made other than inclination (W-12)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				
34. Top of Pay 10361TVD		35. Total Depth 10483 TVD		36. P. B. Depth 10483 TVD		37. Surface Casing Determined by: Field Rules <input type="checkbox"/> Recommendation of T.D.W.R. Railroad Commission (Special) <input checked="" type="checkbox"/>		Dt. of Letter 7/3/09	
38. Is well multiple completion? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		39. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No. FIELD & RESERVOIR					40. Intervals Drilled by: Rotary Tools <input checked="" type="checkbox"/> Cable Tools <input type="checkbox"/>		
41. Name of Drilling Contractor Key Energy					42. Is Cementing Affidavit Attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
43. CASING RECORD (Report All Strings Set in Well)									
CASING SIZE	WT #/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu. ft.		
16"	65#	365'		400sx	20"	Surface	N/A		
9-5/8"	32, 36#	365'		2800sx	12-1/4"	515'	N/A		
7"	23 & 26#	10,600'		500sx	8-3/4"	7890' (TS)	N/A		
44. LINER RECORD									
Size	TOP		Bottom		Sacks Cement		Screen		
5-1/2"	Surf		10097' MD		285 sx (TOC 130')		(W-15 attached)		
45. TUBING RECORD									
Size	Depth Set	Packer Set		46. Producing Interval (this completion) Indicate depth of perforation or open hole					
2-7/8"	10555'			From 10361' TVD OH			To 10445' TVD OH 1st lat		
	TVD/MD			From 10361' TVD OH			To 10483' TVD OH new lat		
				From 10361' TVD OH			To 10398' TVD OH		
				From 10362' MD Vert Perfs			To 10568' MD Vert Perfs		
47. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.									
Depth Interval				Amount and Kind of Material Used					
10361 - 10445' TVD (1st lateral)				Acidz 66000 g. emulsified acid/ 33000 g. 15% HCL					
10362-10568' MD Vertical Perfs				Acidz 46000 g. emulsified acid/ 23000 g. 15% HCL					
10361-10483' TVD (2nd lateral) New lateral				Acidz 79000 g. emulsified acid/ 39000 g. 15% HCL					
48. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)									
Formations		Depth		Formations		Depth			
Mississippian (Non Prod)		9927' TVD							
Woodford (Non-Productive)		10294' TVD, 10300' MD							
Devonian (Productive)		10361' TVD, 10373 MD							
REMARKS Lateral 2 - recompletion as an OH horizontal well in the same field/reservoir. The OH starts at 10066' in the Mississippian zone which is non-productive of oil/gas. The OH lateral also crosses the Woodford zone which is also non-productive of oil/gas. The top of the pay is at 10361' TVD which is the top of the Devonian.									

Cementor: Fill in shaded areas
Operator: Fill in other items

Form W-15
Cementing Report
Rev. 4/1/83
HLBRTN1096

RAILROAD COMMISSION OF TEXAS

Oil and Gas Division

1. Operator's Name (As Shown on Form P-5, Organization Report)	2. RRC Operator No.	3. RRC District No.	4. County of Well Site
XTO Energy	945936	08	Andrews
5. Field Name (Wildcat or Exactly as Shown on RRC Records)	6. API No.	7. Drilling Permit No.	
University Block 9 (Devonian)	42-003-05161	682265	
8. Lease Name	9. Rule 37 Case No.	10. Oil Lease/Gas ID No.	11. Well Number
University Block 9		39152	3A

CASING CEMENTING DATA:		SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				(Liner) SINGLE STRING	MULTIPLE PARALLEL STRINGS	TOOL	SHOE
12. Cementing Date				11/8/2009			
13. *Drilled Hole Size				7 7/8			
*Ext. % Wash or Hole Enlargement							
14. Size of Casing (In. O.D.)				5 1/2"			
15. Top of Liner (ft)				541.8			
16. Setting Depth (ft)				1009.7			
17. Number of Centralizers Used				—			
18. Hrs. Waiting on Cement Before Drill-Out							
1st Slurry	19. API Cement Used: No. of Sacks >			185			
	Class >			H			
	Additives >			Remark 1			
2nd Slurry	No. of Sacks >			100			
	Class >			H			
	Additives >			Remark 2			
3rd Slurry	No. of Sacks >						
	Class >						
	Additives >						
1st	20. Slurry Pumped: Volume (cu.ft.) >			523.55			
	Height (ft) >			9701			
2nd	Volume (cu.ft.) >			160			
	Height (ft) >			2965			
3rd	Volume (cu.ft.) >						
	Height (ft) >						
	Volume (cu.ft.) >			683.55			
	Height (ft) >			12666			
21. Was Cement Circulated to Ground Surface (or Bottom of Casing) Outside Casing?				No			
22. Remarks 1 3% SMS + 2/10% C-37 2 (61#/sk H + 15#/Sk Poz + 11#/Sk CSE2) + 6/10% C-12							

OVER →

CEMENTING TO PLUG AND ABANDON	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
23. Cementing Date								
24. Size of Hole or Pipe Plugged (in)								
25. Depth to Bottom of Tubing or Drill Pipe (ft)								
26. Sacks of Cement Used (each plug)								
27. Slurry Volume Pumped (cu.ft.)								
28. Calculated Top of Plug (ft)								
29. Measured Top of Plug, If Tagged (ft)								
30. Slurry Wt. (lbs/gal)								
31. Type Cement								

CEMENTERS CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Sergio Pacheco Service Supervisor
Name and Title of Cementer's Representative

O-TEX PUMPING SERVICES
Cementing Company

Signature

2811 East I-20
Address City State Zip Code

Midland, Texas 79706

432-686-5889
Tel: Area Code Number

11/8/2009
Date: Mo. Day Yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Typed or Printed Name of Operator's Representative

Title

Signature

200 N. Lorraine, Ste 800 Midland Tx 79701
Address City State Zip Code

432-620-6724
Tel: Area Code Number

2-23-10
Date: Mo. Day Yr.

Instruction to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion, and 14 (Well Plugging). For offshore operations, see the requirements of Rule 13 (c).

A. What to file. An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- * An initial oil or gas completion report, Form W-2 or G-1, as required by Statewide or special field rules;
- * Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- * Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete W-15, in addition to Form W-3, to show any casing cemented in the hole.

B. Where to file. The appropriate Commission District Office for the county in which the well is located.

C. Surface casing. An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

D. Centralizers. Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. Exceptions and alternative casing programs. The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. An operator must obtain approval of any exception before beginning casing and cementing operations.

F. Intermediate and production casing. For specific technical requirements, operators should consult Statewide Rule 12 (b) (3) and (4).

G. Plugging and abandoning. Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.



Texas Commission
on Environmental Quality
Surface Casing Program

DEPTH OF USABLE-QUALITY GROUND WATER TO BE PROTECTED

Date **July 3, 2009**

TCEQ File No.: SC- **13116**

API Number **00305161**

Attention: **SORINA FLORES**

RRC Lease No. **000000**

SC_945936_00305161_000000_13116.pdf

XTO ENERGY INC
200 N LORRAINE ST
STE 800
MIDLAND TX 79701

P-5# 945936

--Measured--

2312 ft FWL

1719 ft FSL

MRL: SURVEY

Digital Map Location:

X-coord/Long **433068**

Y-coord/Lat **235278**

Datum **27** Zone **C**

County **ANDREWS**

Lease & Well No. **UNIVERSTIY BLOCK 9 #3A**

Purpose **RE**

Location **SUR-UL, BLK-9, SEC-11, --[TD=10600], [RRC 8],**


To protect usable-quality ground water at this location, the Texas Commission on Environmental Quality recommends:

The interval from the land surface to a depth of 250 feet
and the ZONE from 1350 feet to 1700 feet must be protected.

Note: Unless stated otherwise, this recommendation is intended to apply only to the subject well and not for area-wide use. Approval of the well completion methods for protection of this groundwater falls under the jurisdiction of the Railroad Commission of Texas. This recommendation is intended for normal drilling, production, and plugging operations only. It does not apply to saltwater disposal operation into a nonproductive zone (RRC Form W-14).

If you have any questions, please contact us at 512-239-0515, sc@tceq.state.tx.us, or by mail MC-151.

Sincerely,


Digitally signed by Jack M. Oswalt
DN: cn=US, st=Texas, [unavailable], ou=Surface
Casing, o=Texas Commission on
Environmental Quality, cn=Jack M. Oswalt,
email=j.oswalt@tceq.state.tx.us
Date: 2009.07.03 07:43:23 -0500

Jack M. Oswalt, P.G.

GEOLOGIST SEAL



Geologist, Surface Casing Team
Waste Permits Division

The seal appearing on this document was authorized by Jack M. Oswalt on 7/3/2009

Note: Alteration of this electronic document will invalidate the digital signature.

TCEQ Form-0081R
Rev. 9/9/2008

P.O. Box 13087 Austin, Texas 78711 3087

512 239 1000

Internet address: www.tceq.state.tx.us

RAILROAD COMMISSION OF TEXAS

Oil and Gas Division

Please Read Instructions

ELECTRIC LOG
STATUS REPORT

FORM L-1

Rev. 01/02

EAG0402

INSTRUCTIONS

When to file the L-1

- with Forms G-1, W-2, and GT-1 for new and deepened gas, oil, and geothermal wells
- with Form W-3 for plugged dry holes
- when sending in a log which was held under a request for confidentiality and the period of confidentiality has not yet expired

When the L-1 is NOT required

- with Forms W-2, G-1, and GT-1 filed for injection wells, disposal wells, water supply wells, service wells, re-test wells, re-classifications, and plugbacks of oil, gas, and geothermal wells
- with Form W-3 for plugging of other than a dry hole

Where to file the L-1

- with the appropriate Commission district office

Filling out the L-1

- Section I and the signature section must be filled out for all wells
- complete only the appropriate part of Section II

Type of log required

- any wireline survey run for the purpose of obtaining lithology, porosity, or resistivity information
- no more than one such log is required but it must be of the subject well
- if such a log is NOT run on the subject well, do NOT substitute any other type of log; just select Section II, Part A below

SEE REVERSE SIDE

SECTION I. IDENTIFICATION		
Operator Name XTO Energy, Inc.	District No. 08	Completion Date 1/6/10
Field Name Univeristy Block 9 (Devonian)	Drilling Permit No. 628865	
Lease Name University Block 9	Lease/ID No. 39152	Well No. 3A
County Andrews	API No. 42- 003-05161	
SECTION II. LOG STATUS (complete either A. or B.)		
<input checked="" type="checkbox"/> A. BASIC ELECTRIC LOG NOT RUN		
<input type="checkbox"/> B. BASIC ELECTRIC LOG RUN (select one)		
<div style="display: flex; flex-direction: column;"> <div style="margin-bottom: 5px;"><input type="checkbox"/> 1. Confidentiality is requested and a copy of the header for each log that has been run on the well is attached.</div> <div style="margin-bottom: 5px;"><input type="checkbox"/> 2. Confidentiality already granted on basic electric log covering this interval (applicable to deepened wells only).</div> <div style="margin-bottom: 5px;"><input type="checkbox"/> 3. Basic electric log covering this interval already on file with Commission (applicable to deepened wells only).</div> <div style="margin-bottom: 5px;"> <input type="checkbox"/> 4. Log attached to (select one) <div style="margin-left: 20px;"> <input type="checkbox"/> (a) Form L-1 (this form). If the company/lease name on log is different from that shown in Section I, please enter name on log here: _____ Check here if attached log is being submitted after being held confidential <input type="checkbox"/> </div> </div> <div style="margin-bottom: 5px;"> <input type="checkbox"/> (b) Form P-7, Application for Discovery Allowable and New Field Designation. </div> <div style="margin-bottom: 5px;"> <input type="checkbox"/> (c) Form W-4, Application for Multiple Completion: lease or ID no.(s) _____, well no.(s) _____ </div> </div>		
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> DeeAnn Kemp <small>signature</small> <small>name (print)</small> </div> <div style="width: 50%;"> Regulatory <div style="display: flex; justify-content: space-between;"> <div>432 620-6724 <small>phone</small></div> <div>3/2/10 <small>date</small></div> </div> </div> </div>		
For Railroad Commission use only		



XTO Energy

Andrews County, TX (NAD27 TNC)

University Block 9 #3A

University Block 9 #3A

OH

Design: Actual

Standard Survey Report

23 November, 2009





Scientific Drilling Survey Report



Company:	XTO Energy	Local Co-ordinate Reference:	Well: University Block 9 #3A
Project:	Andrews County, TX (NAD27 TNC)	TVD Reference:	KB Elev @ 3181.00ft (Rig 7)
Site:	University Block 9 #3A	MD Reference:	KB Elev @ 3181.00ft (Rig 7)
Well:	University Block 9 #3A	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	EDM 5000.1 Single User Db

Project:	Andrews County, TX (NAD27 TNC), USA		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Texas North Central 4202		

Site:	University Block 9 #3A		
Site Position:		Northings:	235,278.00 ft
From:	Map	Easting:	433,068.00 ft
Position Uncertainty:	0.00 ft	Slot Radius:	0 "
		Latitude:	32° 12' 34.083 N
		Longitude:	102° 34' 4.312 W
		Grid Convergence:	-2.78 "

Well	University Block 9 #3A					
Well Position	+N-S	0.00 ft	Northings:	235,278.00 ft	Latitude:	32° 12' 34.083 N
	+E-W	0.00 ft	Easting:	433,068.00 ft	Longitude:	102° 34' 4.312 W
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft	Ground Level:	3,169.00 ft	

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	2009/11/21	7.29	60.40	48,805

Design:	Actual				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N-S	+E/W	Direction	
	(ft)	(ft)	(ft)	(°)	
	0.00	0.00	0.00	161.33	

Survey Program		Date: 2009/11/23		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
100.00	10,070.00	Survey #1 (OH)	UNKNOWN	Unknown survey
10,070.00		12,350.00 MWD Survey (OH)	MWD	MWD - Standard ISCWSA

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	1.25	350.49	99.89	1.08	-0.16	-1.08	1.25	1.25	0.00
200.00	0.54	322.71	199.88	2.53	-0.64	-2.60	0.92	-0.72	-27.78
300.00	1.14	335.77	299.87	3.82	-1.32	-4.04	0.83	0.60	14.07
400.00	1.13	333.23	399.95	5.61	-2.16	-5.01	0.07	-0.01	-3.54
500.00	0.98	344.89	499.93	7.32	-2.83	-7.84	0.26	-0.15	11.66
600.00	0.70	0.16	599.92	8.78	-3.05	-9.28	0.36	-0.28	15.27
700.00	0.51	16.14	699.92	9.80	-2.92	-10.22	0.25	-0.19	15.88
800.00	0.47	341.55	799.91	10.62	-2.93	-10.89	0.29	-0.04	-34.59
900.00	0.28	288.20	899.91	11.08	-3.29	-11.55	0.37	-0.18	-53.35



Scientific Drilling
Survey Report



Company:	XTO Energy	Local Co-ordinate Reference:	Well University Block 9 #3A
Project:	Andrews County, TX (NAD27 TNC)	TVD Reference:	KB Elev @ 3181.00ft (Rig ?)
Site:	University Block 9 #3A	MD Reference:	KB Elev @ 3181.00ft (Rig ?)
Well:	University Block 9 #3A	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	EDM 5000.1 Single User Db

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
1,000.00	0.13	24.88	989.91	11.26	-3.48	-11.78	0.32	-0.16	98.48
1,100.00	0.20	211.59	1,089.91	11.21	-3.53	-11.75	0.33	0.08	-173.09
1,200.00	0.27	227.16	1,189.91	10.90	-3.79	-11.54	0.09	0.08	15.57
1,300.00	0.37	199.67	1,289.91	10.43	-4.07	-11.19	0.18	0.11	-27.49
1,400.00	0.45	175.09	1,389.90	9.74	-4.15	-10.55	0.19	0.08	-24.58
1,500.00	0.31	178.42	1,489.90	9.08	-4.11	-9.92	0.14	-0.14	3.33
1,600.00	0.50	231.65	1,589.90	8.54	-4.44	-9.52	0.40	0.20	53.23
1,700.00	0.45	199.68	1,689.90	7.91	-4.52	-9.06	0.27	-0.05	-31.97
1,800.00	0.76	230.13	1,789.89	7.11	-5.56	-8.52	0.44	0.31	30.45
1,900.00	0.96	208.89	1,889.88	5.96	-6.47	-7.71	0.37	0.20	-21.24
2,000.00	0.46	183.33	1,989.87	4.83	-6.50	-6.78	0.58	-0.50	-25.56
2,100.00	0.36	204.22	2,089.87	4.15	-7.05	-6.18	0.18	-0.10	20.99
2,200.00	0.17	354.30	2,189.87	4.01	-7.19	-6.10	0.51	-0.19	150.09
2,300.00	0.17	13.27	2,289.87	4.30	-7.17	-6.37	0.06	0.00	18.98
2,400.00	0.24	218.57	2,389.87	4.28	-7.27	-6.38	0.41	0.07	-154.70
2,500.00	0.27	327.00	2,489.87	4.31	-7.53	-6.49	0.41	0.02	108.43
2,600.00	0.28	294.02	2,589.87	4.61	-7.88	-6.89	0.16	0.02	-32.88
2,700.00	0.39	318.89	2,689.87	4.96	-8.33	-7.37	0.17	0.10	24.87
2,800.00	0.22	18.51	2,789.88	5.40	-8.48	-7.83	0.33	-0.16	59.62
2,900.00	0.53	34.83	2,889.88	5.86	-8.16	-8.26	0.32	0.31	16.32
3,000.00	0.57	41.71	2,989.88	6.71	-7.57	-8.78	0.08	0.04	6.88
3,100.00	0.46	49.58	3,089.85	7.34	-8.93	-9.17	0.13	-0.11	7.88
3,200.00	0.31	56.47	3,189.85	7.75	-6.40	-9.39	0.15	-0.14	6.88
3,300.00	0.41	55.16	3,289.85	8.10	-5.88	-9.56	0.09	0.09	-1.31
3,400.00	0.29	63.12	3,389.85	6.41	-5.37	-9.69	0.13	-0.12	7.96
3,500.00	0.39	48.78	3,489.85	8.75	-4.89	-9.86	0.14	0.11	-14.33
3,600.00	0.42	355.26	3,589.84	9.34	-4.67	-10.34	0.37	0.02	-53.53
3,700.00	0.17	37.55	3,689.84	9.62	-4.60	-10.78	0.31	-0.25	42.29
3,800.00	0.40	15.15	3,789.84	10.28	-4.42	-11.15	0.25	0.23	-22.40
3,900.00	0.62	343.12	3,889.84	11.14	-4.49	-11.99	0.36	0.22	-32.02
4,000.00	0.54	23.59	3,989.83	12.09	-4.45	-12.88	0.41	-0.08	40.46
4,100.00	0.42	45.15	4,089.83	12.79	-4.00	-13.40	0.22	-0.12	21.57
4,200.00	0.31	68.36	4,189.83	13.15	-3.49	-13.57	0.19	-0.12	23.21
4,300.00	0.18	201.37	4,289.83	13.10	-3.30	-13.47	0.45	-0.13	133.01
4,400.00	0.22	149.57	4,389.83	12.79	-3.26	-13.16	0.18	0.04	-51.80
4,500.00	0.47	190.80	4,489.82	12.22	-3.24	-12.61	0.34	0.25	41.24
4,600.00	0.32	184.14	4,589.82	11.53	-3.34	-11.99	0.18	-0.15	-6.66
4,700.00	0.46	235.90	4,689.82	11.03	-3.69	-11.63	0.36	0.14	51.75
4,800.00	0.80	228.08	4,789.81	10.34	-4.54	-11.25	0.35	0.34	-7.82
4,900.00	0.47	216.48	4,889.81	9.54	-5.30	-10.74	0.35	-0.32	-11.59
5,000.00	0.58	254.81	4,989.80	9.07	-6.04	-10.59	0.36	0.11	38.33
5,100.00	0.82	261.26	5,089.80	8.83	-7.24	-10.69	0.25	0.24	6.46
5,200.00	0.62	229.38	5,189.79	8.37	-8.36	-10.51	0.44	-0.20	-31.88



Scientific Drilling
Survey Report



Company:	XTO Energy	Local Co-ordinate Reference:	Well University Block 9 #3A
Project:	Andrews County, TX (NAD27 TNC)	TVD Reference:	KB Elev @ 3181.00ft (Rig ?)
Site:	University Block 9 #3A	MD Reference:	KB Elev @ 3181.00ft (Rig ?)
Well:	University Block 9 #3A	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	EDM 5000.1 Single User Db

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,300.00	0.46	288.88	5,299.78	8.01	-9.18	-10.52	0.40	-0.16	39.50
5,400.00	0.54	287.81	5,399.78	7.90	-10.04	-10.70	0.13	0.09	-11.27
5,500.00	0.66	246.32	5,499.78	7.57	-11.03	-10.70	0.17	0.12	-11.29
5,600.00	0.39	284.21	5,599.77	7.30	-11.89	-10.72	0.32	-0.28	17.88
5,700.00	0.91	250.00	5,699.76	6.99	-12.97	-10.78	0.55	0.53	-14.20
5,800.00	0.91	232.55	5,799.75	6.24	-14.35	-10.50	0.28	0.00	-17.46
5,900.00	0.73	237.09	5,899.74	6.41	-15.52	-10.09	0.19	-0.18	4.54
6,000.00	0.53	251.41	5,999.73	4.80	-16.83	-9.93	0.29	0.20	14.32
6,100.00	0.84	235.76	6,099.72	4.12	-18.21	-9.74	0.26	-0.09	-15.65
6,200.00	0.47	272.59	6,199.71	3.73	-19.23	-9.69	0.55	-0.38	36.84
6,300.00	0.31	212.19	6,299.71	3.52	-19.78	-9.66	0.42	-0.16	-60.40
6,400.00	0.45	243.31	6,399.71	3.11	-20.28	-9.44	0.25	0.14	31.12
6,500.00	0.53	318.94	6,499.71	3.27	-20.95	-9.80	0.59	0.08	73.63
6,600.00	0.23	357.70	6,599.70	3.81	-21.27	-10.41	0.39	-0.30	40.76
6,700.00	0.54	330.67	6,699.70	4.41	-21.51	-11.06	0.35	0.31	-27.03
6,800.00	0.64	330.92	6,799.70	5.31	-22.01	-12.07	0.10	0.10	0.25
6,900.00	0.40	314.86	6,899.69	6.04	-22.53	-12.93	0.28	-0.24	-16.06
7,000.00	0.46	296.20	6,999.69	6.47	-23.14	-13.53	0.15	0.08	-18.66
7,100.00	0.58	295.30	7,099.68	6.86	-23.96	-14.17	0.12	0.12	-0.90
7,200.00	1.66	303.52	7,199.66	7.88	-25.53	-15.67	1.08	1.08	8.21
7,300.00	1.77	296.74	7,299.62	9.37	-26.21	-17.91	0.23	0.11	-6.77
7,400.00	2.07	301.81	7,399.56	11.01	-31.13	-20.40	0.34	0.30	4.88
7,500.00	2.34	308.07	7,499.48	13.22	-34.27	-23.49	0.37	0.27	6.46
7,600.00	2.26	287.31	7,599.41	15.38	-37.63	-26.62	0.44	-0.08	-10.76
7,700.00	2.11	302.81	7,699.34	17.28	-40.93	-29.47	0.26	-0.16	5.51
7,800.00	2.26	280.76	7,799.27	18.97	-44.31	-32.16	0.48	0.15	-12.05
7,900.00	2.53	287.67	7,899.18	20.34	-46.25	-34.72	0.30	0.27	-3.10
8,000.00	2.19	288.33	7,999.09	21.61	-52.17	-37.17	0.34	-0.34	0.66
8,100.00	1.73	292.56	8,099.03	22.79	-55.38	-39.32	0.48	-0.46	4.28
8,200.00	1.63	284.54	8,199.99	23.73	-58.15	-41.10	0.26	-0.11	-8.04
8,300.00	1.50	274.56	8,299.95	24.19	-60.83	-42.39	0.30	-0.13	-9.99
8,400.00	1.58	272.39	8,399.92	24.35	-63.51	-43.40	0.10	0.08	-2.16
8,500.00	1.62	279.50	8,499.88	24.64	-66.29	-44.57	0.20	0.04	7.11
8,600.00	1.81	269.62	8,599.84	24.87	-69.09	-45.67	0.28	-0.01	-9.88
8,700.00	1.72	280.68	8,699.80	25.14	-71.96	-46.85	0.34	0.11	11.06
8,800.00	1.82	271.74	8,799.75	25.46	-75.02	-48.14	0.29	0.10	-8.94
8,900.00	1.79	274.43	8,899.70	25.93	-78.16	-49.30	0.09	-0.03	2.69
9,000.00	1.53	283.20	8,999.66	26.06	-81.01	-50.62	0.36	-0.26	8.77
9,100.00	1.44	271.46	9,099.63	26.39	-83.57	-51.79	0.32	-0.09	-11.74
9,200.00	1.50	276.88	9,199.59	26.59	-86.21	-52.79	0.21	0.15	5.42
9,300.00	1.44	267.81	9,299.56	26.71	-88.85	-53.75	0.29	-0.15	-9.07
9,400.00	1.20	262.72	9,399.53	26.53	-91.15	-54.31	0.27	-0.24	-5.09
9,500.00	0.98	283.00	9,499.51	26.59	-93.02	-54.97	0.44	-0.22	20.29



Scientific Drilling
Survey Report



Company:	XTO Energy	Local Co-ordinate Reference:	Well University Block 9 #3A
Project:	Andrews County, TX (NAD27 TNC)	TVD Reference:	KB Elev @ 3181.00ft (Rig ?)
Site:	University Block 9 #3A	MD Reference:	KB Elev @ 3181.00ft (Rig ?)
Well:	University Block 9 #3A	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	EDM 5000.1 Single User Db

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	N-S (ft)	E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,600.00	1.31	286.59	9,598.49	27.11	-94.94	-56.07	0.33	0.33	3.59
9,700.00	1.68	277.02	9,698.46	27.61	-97.49	-57.37	0.45	0.38	-9.58
9,800.00	1.73	271.32	9,798.41	27.83	-100.46	-58.52	0.18	0.05	-5.69
9,900.00	1.38	265.75	9,898.38	27.77	-103.18	-59.34	0.39	-0.36	-5.57
10,000.00	1.24	284.22	9,998.35	27.95	-105.43	-60.23	0.44	-0.14	18.47
10,070.00	1.00	280.65	10,068.34	28.25	-108.76	-60.94	0.36	-0.35	-5.10
Tie-In									
10,135.00	11.66	161.30	10,132.90	22.11	-105.21	-54.62	18.74	16.40	-183.62
10,150.00	14.25	161.15	10,147.52	18.93	-104.13	-51.26	17.27	17.27	-1.00
10,167.00	15.63	158.16	10,163.85	14.82	-102.60	-46.88	9.30	8.12	-17.59
10,182.00	16.87	156.26	10,178.35	10.97	-100.98	-42.72	7.78	6.93	-12.67
10,197.00	17.15	154.07	10,192.71	7.02	-99.15	-38.38	5.32	3.20	-14.60
10,213.00	17.74	152.73	10,207.97	2.73	-97.00	-33.63	4.46	3.69	-8.38
10,230.00	17.47	151.95	10,224.17	-1.83	-94.61	-28.56	2.11	-1.59	-4.59
10,245.00	17.33	151.82	10,238.49	-5.78	-92.60	-24.13	0.97	-0.83	-0.87
10,261.00	16.96	152.17	10,253.78	-9.95	-90.28	-19.48	2.40	-2.31	2.19
10,276.00	16.80	150.69	10,269.13	-13.77	-88.20	-15.19	3.06	-1.07	-9.87
10,290.00	17.62	150.35	10,281.50	-17.38	-86.15	-11.12	5.90	5.86	-2.43
10,307.00	19.18	148.44	10,287.63	-21.99	-83.43	-5.87	9.84	9.18	-11.24
10,322.00	21.84	148.73	10,311.68	-26.48	-80.69	-0.74	17.75	17.73	1.93
10,337.00	23.64	147.87	10,325.52	-31.41	-77.64	4.90	12.20	12.00	-5.73
10,354.00	24.90	146.17	10,341.01	-37.27	-73.83	11.67	8.47	7.41	-10.00
10,370.00	24.71	144.85	10,355.54	-42.80	-70.03	18.13	3.86	-1.19	-8.25
10,387.00	27.02	144.87	10,370.83	-48.67	-65.77	25.24	13.58	13.59	0.12
10,402.00	29.51	145.57	10,384.04	-54.70	-61.72	32.07	16.75	16.60	4.97
10,416.00	33.21	146.47	10,396.00	-60.71	-57.59	39.08	26.43	26.43	-0.71
10,433.00	36.16	145.33	10,409.97	-68.67	-52.10	46.38	17.36	17.35	-0.62
10,448.00	41.17	145.17	10,421.88	-76.37	-46.76	57.38	33.41	33.40	-1.07
10,465.00	46.83	145.83	10,434.01	-86.01	-40.13	68.64	27.54	27.41	3.88
10,479.00	51.59	146.23	10,443.24	-94.73	-34.26	78.78	41.20	41.14	2.86
10,498.00	56.49	147.42	10,453.22	-106.25	-26.74	92.10	29.37	28.82	7.00
10,508.00	61.77	147.46	10,459.89	-115.65	-20.73	102.92	40.62	40.62	0.31
10,526.00	67.37	147.79	10,467.19	-128.61	-12.52	117.83	32.99	32.94	1.94
10,543.00	72.79	148.13	10,472.98	-142.15	-4.04	133.38	31.94	31.88	2.00
10,572.00	83.25	150.01	10,478.99	-166.46	10.51	161.06	36.62	36.07	6.48
10,604.00	90.03	151.46	10,480.86	-194.31	26.12	192.44	21.66	21.19	4.53
10,635.00	91.44	152.18	10,480.47	-221.63	40.75	223.01	5.11	4.55	2.32
10,669.00	92.41	152.61	10,479.33	-251.74	56.50	256.58	3.12	2.85	1.26
10,701.00	93.26	153.41	10,477.74	-280.22	71.00	288.21	3.65	2.66	2.50
10,732.00	91.14	152.98	10,476.55	-307.87	84.97	318.87	6.98	-6.84	-1.39
10,764.00	89.53	153.04	10,476.37	-336.38	99.50	350.53	5.03	-5.03	0.19
10,795.00	89.43	151.34	10,476.85	-363.80	113.96	381.14	5.49	-0.32	-5.48
10,826.00	89.87	152.09	10,476.64	-391.10	128.65	411.70	2.80	1.42	2.42
10,856.00	90.70	152.21	10,476.68	-419.39	143.59	443.29	2.62	2.59	0.36



Scientific Drilling
Survey Report



Company: XTO Energy
Project: Andrews County, TX (NAD27 TNC)
Site: University Block 9 #3A
Well: University Block 9 #3A
Wellbore: OH
Design: Actual

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well University Block 9 #3A
KB Elev @ 3181.00ft (Rig ?)
KB Elev @ 3181.00ft (Rig ?)
Grid
Minimum Curvature
EDM 5000.1 Single User Db

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	N-S (ft)	E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,888.00	80.91	150.93	10,476.24	-446.65	158.35	473.84	4.18	0.68	-4.13
10,921.00	89.60	149.83	10,476.10	-474.47	174.17	505.25	5.35	-4.09	-3.44
10,950.00	89.67	149.73	10,476.28	-499.52	188.76	533.66	0.42	0.24	-0.34
10,982.00	90.10	149.58	10,476.35	-527.14	204.93	565.00	1.42	1.34	-0.47
11,013.00	90.50	149.96	10,476.19	-553.92	220.54	596.37	1.78	1.29	1.23
11,045.00	90.67	149.86	10,476.86	-581.81	236.58	626.74	0.62	0.53	-0.31
11,077.00	88.70	149.93	10,476.03	-609.29	252.83	658.10	6.16	-6.16	0.22
11,108.00	88.99	150.20	10,476.66	-636.15	268.10	688.50	1.28	0.94	0.87
11,140.00	89.46	149.81	10,477.09	-663.86	284.09	719.87	1.91	1.47	-1.22
11,171.00	89.83	149.88	10,477.28	-690.67	299.66	750.25	1.21	1.19	0.23
11,203.00	90.44	149.89	10,477.21	-718.35	315.72	781.81	1.81	1.91	0.03
11,235.00	91.41	149.78	10,476.68	-746.01	331.80	812.97	3.05	3.03	-0.34
11,266.00	92.11	150.48	10,476.74	-772.88	347.23	843.36	3.19	2.26	2.26
11,300.00	90.84	149.48	10,474.87	-802.31	364.23	876.88	4.75	-3.74	-2.94
11,331.00	91.81	149.55	10,474.15	-829.01	379.95	907.02	3.14	3.13	0.23
11,363.00	90.80	148.35	10,473.42	-856.42	396.45	938.27	4.90	-3.16	-3.75
11,395.00	89.33	147.91	10,473.38	-883.60	413.35	969.42	4.80	-4.59	-1.38
11,426.00	89.26	148.21	10,473.76	-909.90	429.76	999.59	0.99	-0.23	0.97
11,457.00	88.93	149.02	10,474.25	-936.36	445.89	1,029.83	2.82	-1.08	2.61
11,489.00	88.26	150.68	10,475.04	-964.02	461.98	1,061.17	5.59	-2.09	5.19
11,518.00	88.36	150.91	10,475.89	-989.32	476.10	1,089.67	0.86	0.34	0.79
11,550.00	88.46	152.18	10,476.78	-1,017.45	491.34	1,121.19	3.88	0.31	3.97
11,582.00	88.30	154.30	10,477.69	-1,046.01	505.74	1,152.86	6.64	-0.50	6.63
11,613.00	87.88	155.65	10,478.72	-1,074.08	518.85	1,183.65	4.56	-1.35	4.35
11,645.00	87.95	156.73	10,479.88	-1,103.34	531.76	1,215.50	3.38	0.22	3.38
11,678.00	88.13	157.30	10,480.94	-1,131.86	543.86	1,246.40	1.83	0.58	1.84
11,708.00	88.15	157.94	10,481.98	-1,161.43	556.04	1,278.31	2.00	0.08	2.00
11,741.00	87.95	159.03	10,483.11	-1,192.12	568.13	1,311.25	3.35	-0.61	3.30
11,773.00	87.81	160.37	10,484.29	-1,222.11	579.23	1,343.22	4.21	-0.44	4.19
11,805.00	88.09	161.40	10,485.44	-1,252.32	589.70	1,375.20	3.33	0.88	3.22
11,836.00	88.83	162.00	10,486.24	-1,281.74	599.43	1,406.18	3.33	2.71	1.94
11,867.00	89.26	162.18	10,486.73	-1,311.24	608.98	1,437.18	1.21	1.06	0.58
11,899.00	89.43	162.89	10,487.10	-1,341.76	618.56	1,469.17	2.28	0.53	2.22
11,931.00	89.77	162.42	10,487.32	-1,372.31	628.10	1,501.16	1.81	1.06	-1.47
11,962.00	90.00	162.41	10,487.38	-1,401.86	637.47	1,532.15	0.74	0.74	-0.03
11,994.00	90.83	163.36	10,487.15	-1,432.44	646.89	1,564.14	3.94	2.59	2.97
12,024.00	90.84	163.52	10,486.71	-1,461.19	655.43	1,594.12	0.53	0.03	0.53
12,056.00	90.57	164.05	10,486.32	-1,491.82	664.37	1,628.08	1.86	-0.84	1.66
12,088.00	90.91	164.39	10,485.91	-1,522.71	673.07	1,658.04	1.50	1.06	1.06
12,120.00	91.01	164.88	10,485.37	-1,553.58	681.55	1,688.88	1.56	0.31	1.53
12,151.00	91.21	164.75	10,484.77	-1,583.47	689.67	1,720.92	0.77	0.65	-0.42
12,183.00	91.64	164.57	10,483.97	-1,614.32	698.13	1,752.86	1.46	1.34	-0.56
12,214.00	90.07	165.42	10,483.51	-1,644.26	706.18	1,783.79	5.76	-5.06	2.74



Scientific Drilling
Survey Report



Company:	XTO Energy	Local Co-ordinate Reference:	Well: University Block 9 #3A
Project:	Andrews County, TX (NAD27 TNC)	TVD Reference:	KB Elev @ 3181.00ft (Rig ?)
Site:	University Block 9 #3A	MD Reference:	KB Elev @ 3181.00ft (Rig ?)
Well:	University Block 9 #3A	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	EDM 5000.1 Single User Db

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
12,248.00	90.20	165.24	10,483.44	-1,675.22	714.28	1,815.71	0.69	0.41	-0.56
12,277.00	90.40	165.16	10,483.27	-1,705.19	722.18	1,846.64	0.69	0.85	-0.28
MWD Survey									
12,350.00	90.40	165.16	10,482.76	-1,775.75	740.87	1,819.47	0.00	0.00	0.00
Projection to Bit									

Design Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
10,070.00	10,068.34	28.25	-106.76	Tie-In	
12,277.00	10,483.27	-1,705.19	722.18	MWD Survey	
12,350.00	10,482.76	-1,775.75	740.87	Projection to Bit	

Checked By: _____	Approved By: _____	Date: _____
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Scientific Drilling for XTO Energy
Site: Andrews County, TX (NAD27 TNC)
Well: University Block 9 83A
Wellbore: OH
Design: Plan #1 vs Actual - 4-3/4" Hole



SECTION DETAILS

Sec	ID	Inc	Asl	TVD	+N/S	+E/W	Ding	T-Base	V-Base	Target
1	10070.00	4.00	280.05	10068.34	26.45	-106.67	0.00	0.00	0.00	-61.10
2	10070.00	4.00	280.05	10068.34	26.45	-106.67	0.00	0.00	0.00	-61.10
3	10073.01	24.00	148.50	10068.16	-20.71	-74.49	12.00	0.00	0.00	-3.30
4	10075.42	30.00	148.50	10068.16	-18.15	-25.71	23.58	0.00	0.00	165.30
5	10075.42	30.00	148.50	10068.16	-18.15	-25.71	23.58	0.00	0.00	165.30
6	10075.42	30.00	148.50	10068.16	-18.15	-25.71	23.58	0.00	0.00	165.30
7	10075.42	30.00	148.50	10068.16	-18.15	-25.71	23.58	0.00	0.00	165.30

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/S	+E/W	Northings	Eastings	Latitude	Longitude	Shape
TO1-UB 9 87AU	10488.00	-1728.00	546.00	234150.00	433614.00	32°12' 23.18" N	102°35' 57.33" W	Point
TO1-UB 9 87AU	10488.00	-1728.00	546.00	234150.00	433614.00	32°12' 23.18" N	102°35' 57.33" W	Point

WELL DETAILS: University Block 9 83A

+N/S	+E/W	Northings	Eastings	Altitude	Longitude	Shot
0.00	0.00	235278.00	433684.00	32°12' 23.18" N	102°35' 57.33" W	

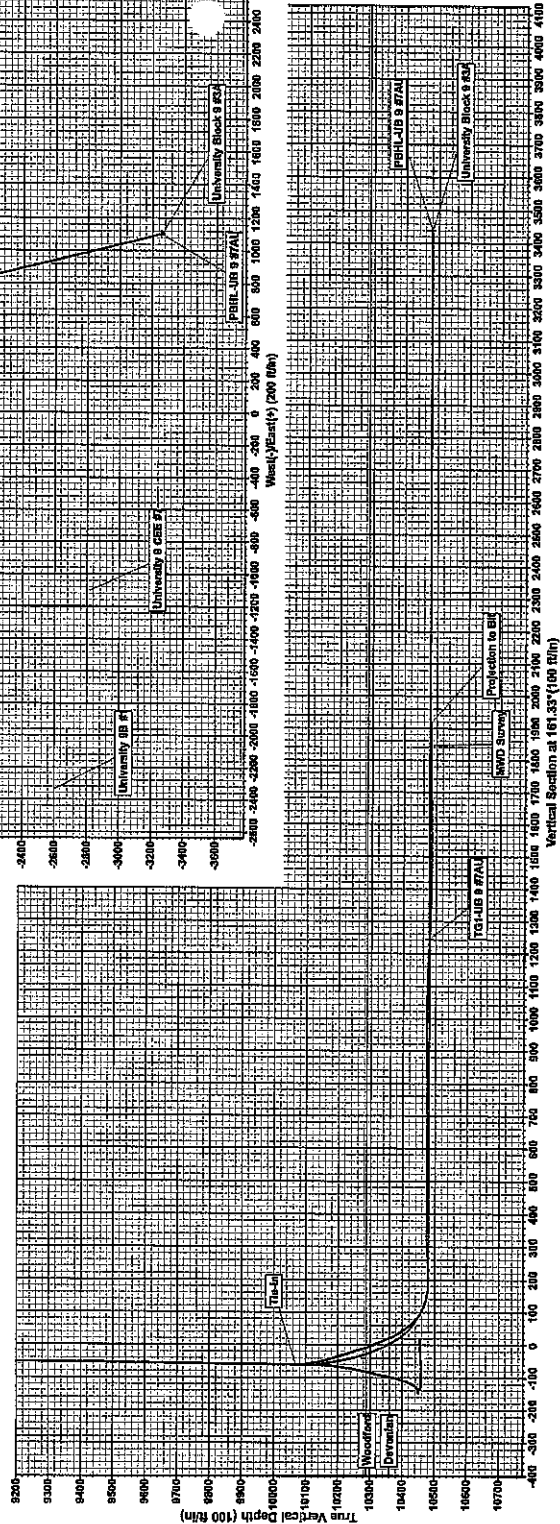
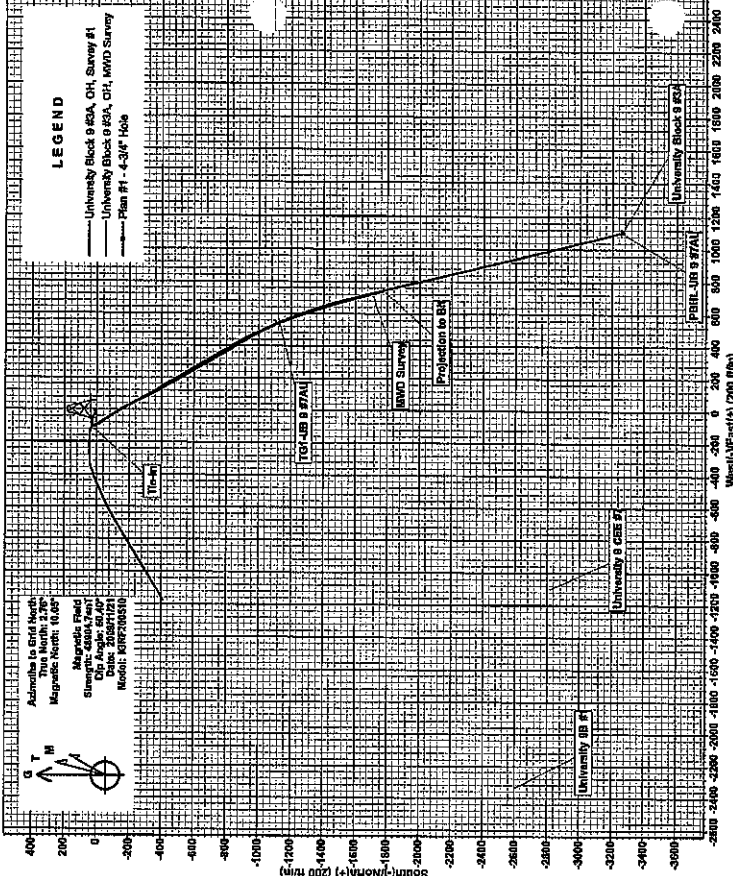
PROJECT DETAILS: Andrews County, TX (NAD27 TNC) Plan: Plan #1 - 4-3/4" Hole (University Block 9 83A/09)

Geodetic System: US State Plane 1987 (Eased solution)
Datum: NAD83
Ellipsoid: Clarke 1866
Zone: Texas North Central 4202
System Datum: Mean Sea Level

Created By: Jelle Pina
Checked: _____
Reviewed: _____
Date: 21-Nov-09
Date: _____
Date: _____

AZIMUTH CORRECTIONS

ALL AZIMUTHS MUST BE CORRECTED TO GRID
GRID CORRECTIONS MUST BE APPLIED BEFORE PLOTTING
To convert a magnetic direction to a grid direction, Add 10.05°
To convert a true direction to a grid direction, Add 2.76°



TOPOGRAPHIC

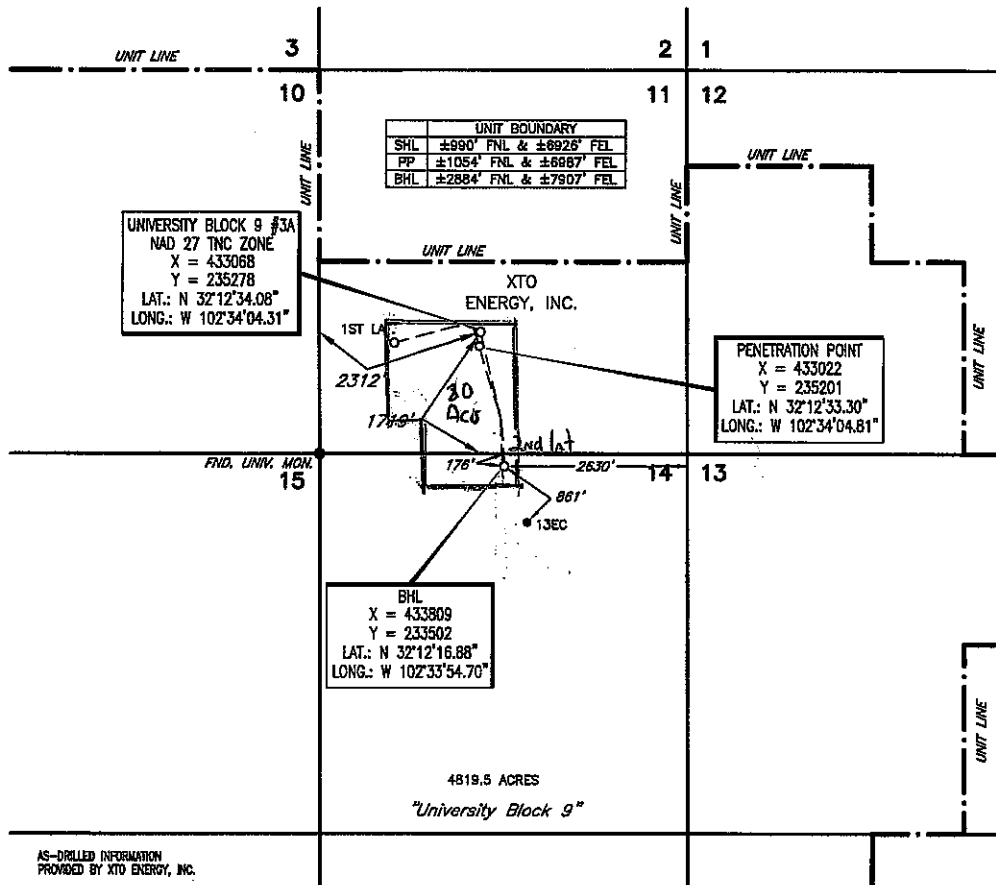
SURVEYING • MAPPING • GIS • GPS
2903 N. BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 (800) 767-1553 • FAX (432) 682-1743

"AS-DRILLED"

ANDREWS County, Texas
SHL: 1719' FSL & 2312' FWL
Description BHL: 176' FNL & 2630' FEL (SEC. 14)

SECTION 11, BLOCK 9, UNIVERSITY LAND

NAD 27
GRID BEARINGS



AS-DRILLED INFORMATION
PROVIDED BY XTO ENERGY, INC.

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.S.P.L.S. Minimum Standards of Procedures for Boundary Surveys.

SCALE: 1" = 1000'
0' 500' 1000'

Operator

XTO
ENERGY, INC.

Date Staked JUNE 4, 2009

Lease Name & Well No. UNIVERSITY BLOCK 9 #3A

Ground Elev. 3189' Reference Stakes or NONE

Alternate Location

Good Drill Site? YES Stakes Set ±8.4 MILES SOUTH OF ANDREWS, TEXAS

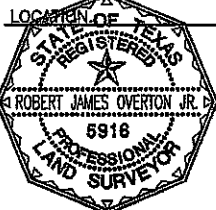
Topography & Vegetation SANDY NATURAL PASTURE

Best Accessibility to Location FROM LEASE ROAD ±300' SOUTH OF THE LOCATION

Distance & Direction

from Hwy Jct. or Town FROM THE JCT. OF U.S. HWY. 385 & COUNTY ROAD SW5900, GO SOUTHWEST

SW5900 3.9 MILES, THENCE NORTH 0.7 MILES, THENCE WEST 1.1 MILES TO A POINT ±300' SOUTH OF THE



Invoice # 153493/726NE

E.U.O.
REVISED: 2/25/10; EUO

CERTIFICATION:

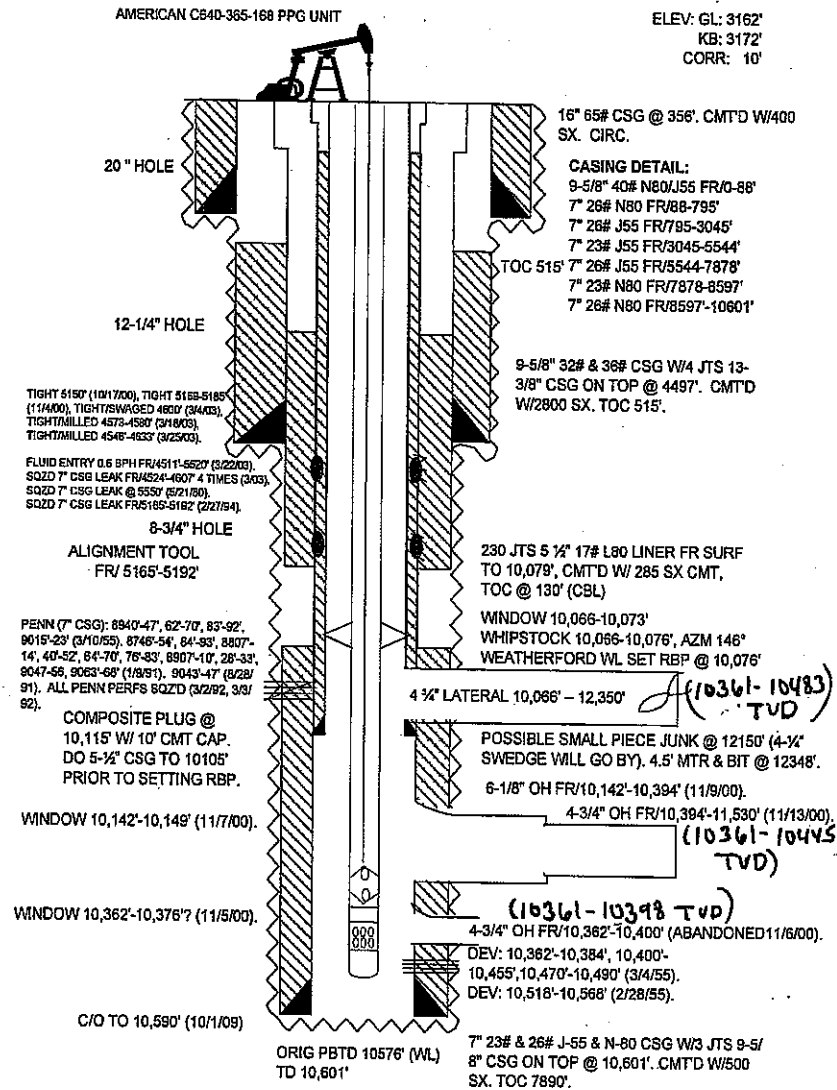
I, Robert J. Overton, Jr., a Registered Professional Land Surveyor, and an authorized agent of Topographic Land Surveyors, do hereby certify that in my professional opinion the above described well location was surveyed and staked on the ground as shown. This plat is for Texas Railroad Commission permitting only.

Robert J. Overton Jr.

Texas Reg. No.

5916

UNIV BLK 9 3A (FKA PENN UNIT #6 & UNIV BLK 9 A #3) **WELLBORE DIAGRAM**



W:WELL SKETCHES\BLK 9\UNIV BLK 9 3A