

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

ATS-12-436
FORM APPROVED
OMB No 1004-0137
Expires July 31, 2010

5. Lease Serial No.
(BHL) LC-031740B

6. If Indian, Allottee or Tribe Name

7. If Unit or CA Agreement, Name and No.
Eunice Monument South NMNM70948A

8. Lease Name and Well No.
Eunice Monument South Unit #262H

9. API Well No.

10. Field and Pool, or Exploratory
Eunice Monument; Grayburg - SA

11. Sec., T. R. M. or Blk. and Survey or Area
SHL: Section 3, T. 21 S., R. 36 E.
BHL: Section 4, T. 21 S., R. 36 E.

12. County or Parish
LEA

13. State
NM

1a. Type of work: ☐ DRILL ☒ REENTER

1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone

2. Name of Operator XTO ENERGY, INC.

3a. Address 200 N. LORAIN, SUITE 800
MIDLAND, TX. 79701

3b. Phone No. (include area code)
432-638-8372 (CHIP AMROCK)

4. Location of Well (Report location clearly and in accordance with any State requirements.)*

At surface 661 FSL & 663 FWL, SECTION 3

At proposed prod. zone 3080 FSL & 2160 FEL, SECTION 4

14. Distance in miles and direction from nearest town or post office*
7 MILES NORTHWEST OF EUNICE, NM

15. Distance from proposed* location to nearest property or lease line, ft
(Also to nearest drig. unit line, if any)
663' (SHL)

16. No. of acres in lease
14468.55

17. Spacing Unit dedicated to this well
160

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft
1280'

19. Proposed Depth
MD: 7450' TVD: 3755'

20. BLM/BIA Bond No. on file
UTB-000138

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
3582' GL

22. Approximate date work will start*

23. Estimated duration
30 DAYS

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

1. Well plat certified by a registered surveyor.

2. A Drilling Plan.

3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office)

4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).

5. Operator certification

6. Such other site specific information and/or plans as may be required by the BLM.

25. Signature

Barry W. Hunt

Name (Printed/Typed)
BARRY W. HUNT

Date

3/5/12

Title

PERMIT AGENT FOR XTO ENERGY, INC.

Approved by (Signature)

/s/ Don Peterson

Name (Printed/Typed)

Date

Title

FIELD MANAGER

Office

CARLSBAD FIELD OFFICE

JUN 14 2012

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 2)

*(Instructions on page 2)

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

Approval Subject to General Requirements
& Special Stipulations Attached

JUN 20 2012

Capitan Controlled Water Basin

- PRIVATE SURFACE OWNER AGREEMENT STATEMENT

March 5, 2011

XTO Energy Inc. has reached an agreement with the estate of Miller Deck. Below is the contact information for this estate.

Millard Deck Estate, c/o Bank of America NA

Attn: Jeff Petter, US Trust-Farm & Ranch

Bank of America Private Wealth Management

P.O. Box 270

Midland, TX 79702.

Barry W. Hunt
Permitting Agent for XTO Energy Inc.

DRILLING PLAN: BLM COMPLIANCE
(Supplement to BLM 3160-3)

XTO Energy Inc.
Eunice Monument South Unit #262H
Projected TD: 7450 MD / TVD: 3755'
SHL: 661' FSL & 663' FWL, SECTION 3, T21S, R36E
BHL: 3080' FSL & 2160' FEL, SECTION 4, T21S, R36E
Lea County, NM
Lease #: NMLC -031740 B

1. GEOLOGIC NAME OF SURFACE FORMATION:

A. Salado

2. ESTIMATED TOPS OF GEOLOGICAL MARKERS & DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS:

Formation	Subsea Depth	Well Depth	Water / Oil / Gas
Rustler		1272'	Water
Top of Salt		1455'	Salt
Base of Salt		2570'	Salt
Tansil		2590'	Water/Oil/Gas
Yates		2690'	Water/Oil/Gas
Seven Rivers		2910'	Water/Oil/Gas
Queen		3341'	Water/Oil/Gas
Penrose		3472'	Water/Oil/Gas
Grayburg		3650'	Water/Oil/Gas
Target/Land Curve		3755'	Water/Oil/Gas
MD		7450'	Water/Oil/Gas

*** Hydrocarbons @ Grayburg

This project will involve sidetracking (whipstock assembly) the existing 5- 1/2" casing at approximately 3650' and drilling a 4-3/4" hole with 38.2 deg per 100' build rates and land the curve at 3755' TVD/3888'. The lateral hole will be extended to a MD of 7450'. The well will be completed as an open hole lateral.

3. CASING PROGRAM: EXISTING IN WELL (NA=NOT AVAILABLE)

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
17"	0' - 231'	13"	48#	NA	NA	NA	NA	NA	NA
12-1/4"	0' - 1461'	9-5/8"	36#	NA	NA	NA	NA	NA	NA
8-3/4"	0' - 3765'	7"	24#	NA	NA	NA	NA	NA	NA
Inside 7" CSG.	3279' - 3885'	5-1/2"	15.5#	NA	NA	NA	NA	NA	NA

WELLHEAD: EXISTING

- A. Lower casing head: 11" 3000 psi top flange x 7-1/16" SOW bottom
- B. 'B' Section / Tubing spool: 6" 900 Series 3M psi top flange, SOW to the 7" casing

4. CEMENT PROGRAM: EXISTING

- A. Surface Casing: Existing 13", 48#, @231' cmtnd w 200 sx, circ to surface.
- B. 1st Interm. Casing: Existing 9-5/8", 36#, @ 1461' cmtnd w 400 sx circ to surface.
- C. Production Casing: Existing 7", 24#, @ 3765' cmtnd w 300 sx, TOC 1931'.
- C. Production Liner: Existing 51/2", 15.5#, @3885' cmtd w 475 sx, TOC 3279'.

5. PRESSURE CONTROL EQUIPMENT: Consistent with a workover/re-entry rig.

The blow out preventer equipment (BOP) for this well consists of a 7-1/16" 5M double ram BOP with choke manifold. Formation BHP is estimated at 1652 psi. Due to the pressure rating of the tubing flange (3M), the BOP will only be tested to 3000 psi. The 5M BOP, with a 7-1/16" bore, will be installed on the 7" surface casing and utilized continuously until total depth is reached. Testing will begin when moved on well and rigged up. All casing strings will be tested as per Onshore Order #2.

Pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These functional tests will be documented on the daily drillers log.

6. PROPOSED MUD CIRCULATION SYSTEM: In lateral hole

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
3650' to 7450'	4-3/4"	FW/Native	8.5-8.8	30-32	NC

If needed, the necessary mud products for weight addition and fluid loss control will be on location at all times.

7. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT:

- A. A Kelly cock will be in the drill string at all times.
- B. A full opening drill pipe stabbing valve having appropriate connections will be on the rig floor at all times.
- C. H2S monitors will be on location when drilling the 4-3/4" hole.

8. LOGGING, CORING AND TESTING PROGRAM:

- A. Mud Logger: Patriot Mud Logging Unit (2 man) on @ 3650' - KOP.
Catch 10' samples from 3650' to 7450' (TD/MD).
Send 1 set of dry samples to Midland Sample Library.

9. ABNORMAL PRESSURES AND TEMPERATURES / POTENTIAL HAZARDS:

None anticipated. Max bottom hole pressure should not exceed 1652 psi. BHT of 145 F is anticipated. H2S can be present from 3650' (KOP) – TD. With the low BHP, the drilling fluid has sufficient overburden to control the wellbore. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. Lost circulation could occur but is not expected to be a serious problem in this area.

10. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS:

A. Road and location construction will begin after BLM has approved APD. Anticipated spud date will be as soon after BLM approval and as soon as rig will be available. Move in operations and drilling is expected to take 10 - 12 days. An additional 30 days will be needed to complete the well and construct surface facilities and/or lay flow lines in order to place well on production.

11. SPECIAL INSTRUCTIONS:

- A. Reports should be filled out on the XTO Drilling Report form, and the Casing/Cementing Detail Forms provided.
- B. Deviation: Surveys will be taken with MWD/steering tool directional assembly.
- C. Check BOP blind rams each trip and pipe rams each day. Strap out of hole for logging and/or casing jobs.
- D. A trash trailer will be provided on each location. Keep trash picked up and the location as clean as possible. All drilling line, oil filters, etc. should be hauled away at the Drilling Contractor's expense. At the conclusion of drilling operations, the contents of the trash trailer will be disposed of into a commercial sanitary landfill.



PROPOSED TA WELL DATA SHEET

LEASE: EMSU WELL: 262
 LOC: 660' F S L & 660' F W L SEC: 3
 TOWNSHIP: 21S CNTY: L8a
 RANGE: 35E UNIT: U ST: N.M.

FORM: Grayburg / San Andres DATE:
 GL: 3572' STATUS: Producer
 KB: 3572' API NO: 30-025-04454
 DF: CHEVNO: FA 5597-01

Date Completed: 4/12/1937
 Initial Production: F/ 2378 BOPD
 Initial Formation: Grayburg
 FROM: 3886' to 3854' / GOR 572

Completion Data

11/15/35 ACDZ w/ 4000 gals.

Subsequent Workover or Reconditioning:

9/14/50 ACDZ w/ 1000 gals.
 6/87 CO to 3885'. Log w/ Cal, CNL, GR, CCL. Perf 3668-70, 3686-88, 3692-94, 3698-3722 & 3731-41'. ACDZ perms & OH w/ 3150 gals 15% HCl + 2150# GRS. Swb dry. Set CIBP @ 3755'. ACDZ perms 3668-3741' w/ 2500 gals 15% HCl + BS. Swb dry. DOCIBP. RIH w/ PE. RTP.
 8/87 Drill to 3885'. TD 3878 (WL). Dump hydromite. Top of hydromite 3840' (WLM). RIH w/ PE.
 1/88 Drill hydromite, plug 3860-3885 (TD). Run 5-1/2" 17# liner. Cmt w/ 75 SX cmt. Log GR, CCL, CBL, CET. Perf 3668-3670 (1 JHPF). Treat w/ 300 gals 15% NeFe. Perf 3668-70, 3686-88, 3692-94, 3698-3723, 3731-41, 3768-82 & 3793-3814. ACDZ w/ 4000 gals + 123 BS. RIH w/ PE equip. TOTP.
 4/88 Cmt w/ 400 SX, perf @ 3668-3814'. Perf GB Zone 3 f/ 3767-3772'. ACDZ w/ 400 gals 15% NeFe HCl. ISIP - 900 psi. Perf zone 1 & 2 @ 3668-70, 3686-88, 3692-94, 3698-3723 & 3731-41. ACDZ w/ 2000 gals 15% NeFe HCl + 60 BS. ISIP - Vac. Swb, rec'd 7 BW / 0 oil / 15 runs. SFL - 3300' FS. EFL - 3500' FS FeR 2 BPH. RIH w/ PE. TOTP. A/W: 0 BO/10 BW / 1 MCF. B/4: 0 BO/ 526 BW/ 3 MCF.
 5/88 Test: 0 BO / 10 BW / 1 MCFG. B/4 - 0 BO/ 515 BW/ 2 MCF.
 6/89 Chemical treat.
 12/93 Intermittently produce to await waterflood response.

Additional Data:

T/Queen Formation @ 3341'
 T/Penrose Formation @ 3472'
 T/Grayburg Zone 1- @ 3650'
 T/Grayburg Zone 2 @ 3685'
 T/Grayburg Zone 2A @ 3716'
 T/Grayburg Zone 3 @ 3745'
 T/Grayburg Zone 4 @ 3782'
 T/Grayburg Zone 5 @ 3828'
 T/Grayburg Zone 6 @ 3877'
 T/San Andres Formation @ 3915'
 KB @ 3572'

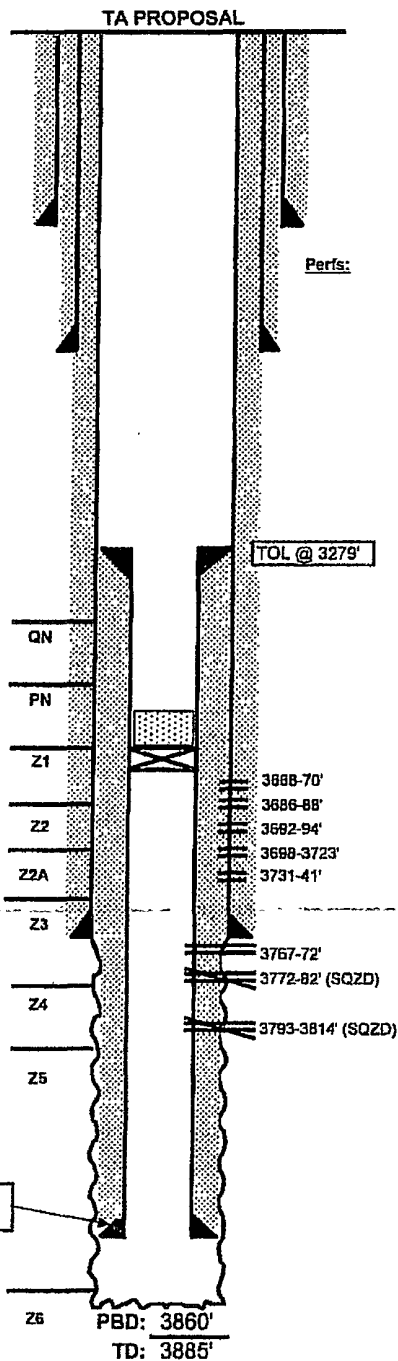
13" OD
 CSG
 Set @ 231' w/ 200 SX
 Cmt circ.? Yes
 TOC @ surf. by calc.
 (17" hole)

9-5/8" OD
 35# CSG 8rd
 Set @ 1461' w/ 400 SX
 Cmt circ.? No
 TOC @ 281' by calc.
 (12-1/4" hole)

OCD/BLM - TA Proposal
 Set CIBP @ 3570' with 35' cmt cap to 3535'.

7" OD
 24# CSG 10rd
 Set @ 3765' w/ 300 SX
 Cmt circ.? No
 TOC @ 1931' by calc.
 (8-3/4" hole)

Liner Detail: 5-1/2" 15.5# K-55/L-80 RFC-8
 Liner @ 3885' (flush joint).



FILE: EMSU262WB.XLS



PROPOSED TA WELL DATA SHEET

LEASE: EMSU WELL: 262
LOC: 660' F S L & 660' F W L SEC: 3
TOWNSHIP: 21S CNTY: Lea
RANGE: 36E UNIT: U ST: N.M.

FORM: Grayburg / San Andres DATE: _____
GL: 3572' STATUS: Producer
KB: 3572' API NO: 30-025-04454
DF: _____ CHEVNO: FA 5597:01

Date Completed: 4/12/1937
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Initial Formation: Grayburg
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T/San Andres Formation @ 3915'
KB @ 3572'

XTO ID: 114356

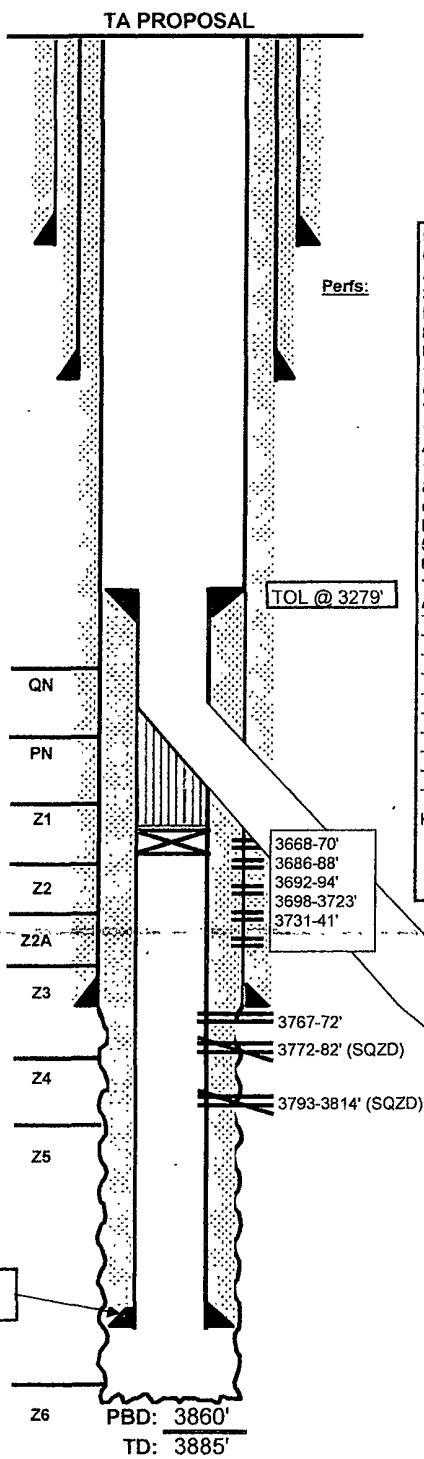
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36# CSG 8rd
Set @ 1461' w/ 400 SX
Cmt circ.? No
TOC @ 281' by calc.
(12-1/4" hole)

RBP @ 3665'
w/ whipstock
top @ 3653'

7" OD
24# CSG 10rd
Set @ 3765' w/ 300 SX
Cmt circ.? No
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Liner Detail: 5-1/2" 15.5# K-55/L-80 RFC-8
liner @ 3885' (flush joint).

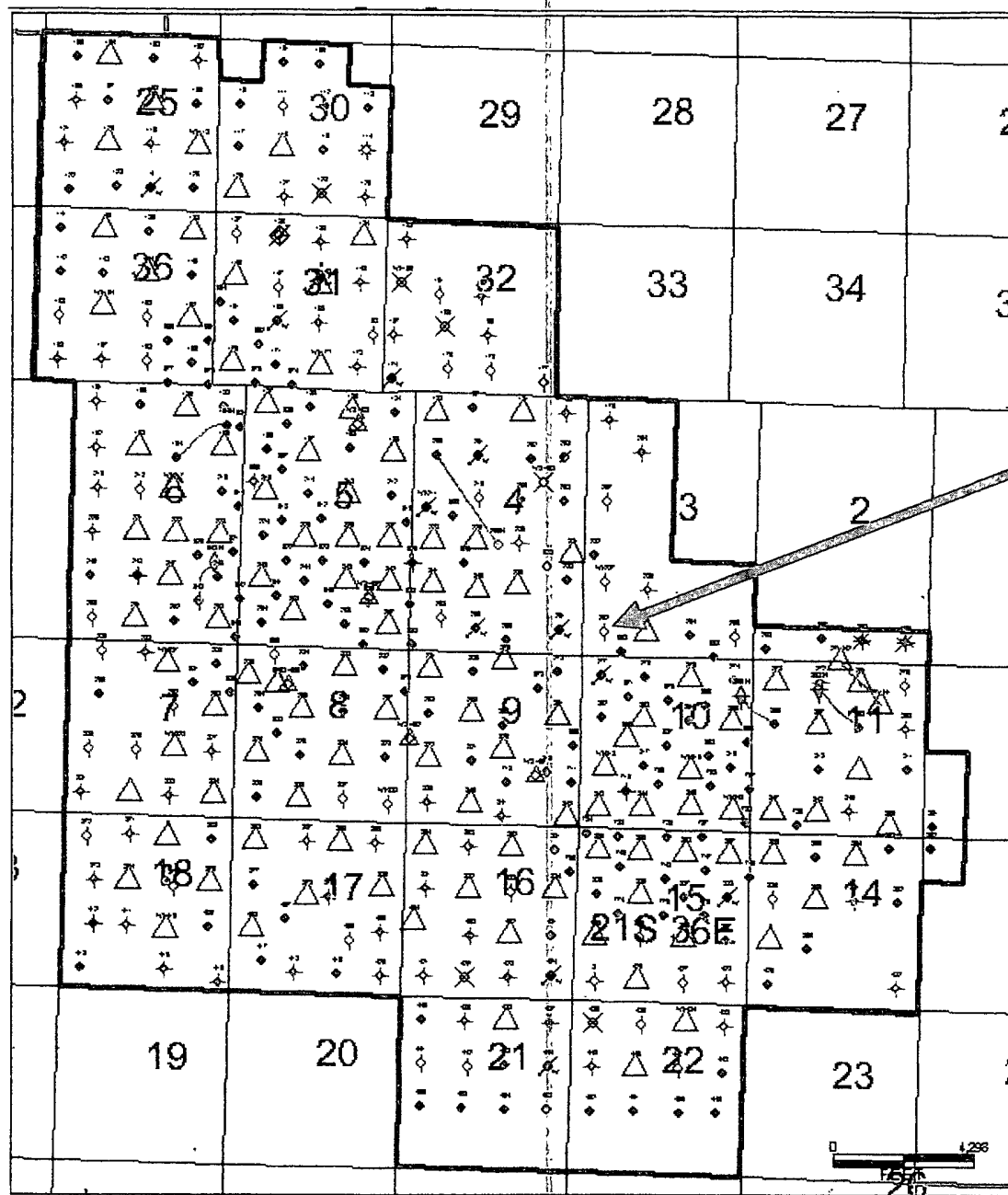


Est TD @ 7451' MD / 3790' TVD

FILE: EMSU262WB.XLS

The East Monument South Unit (EMSU) #262 well was not in the Plan of Development (POD) because it was shut in when the POD was done. At that time we were not considering it for a horizontal.

Since that time XTO has determined, thus the Application to Drill, to re-enter the #262 and drill a lateral from the T&A well which will make it an active unit well once again (See attached Unit Wells within the unit for the EMSU #262).



EMSU 262, shut in
Unit well



Project: Lea County
Site: EMSU
Well: #262H
Wellbore: OH
Plan: Plan #1 (#262H/OH)



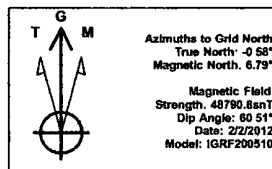
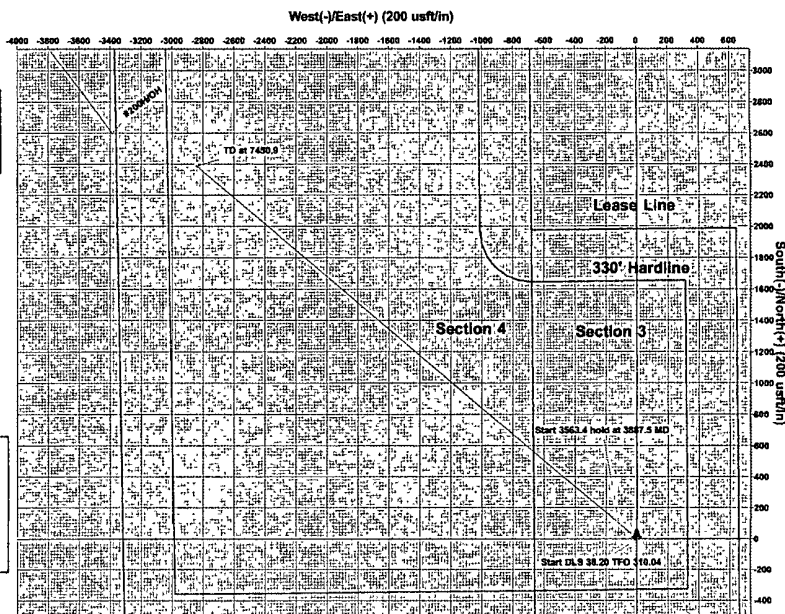
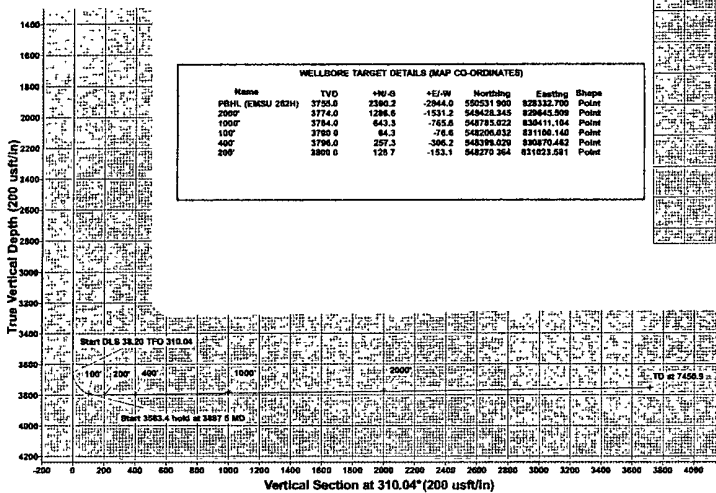
A Schlumberger Company

PROJECT DETAILS: Lea County
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level
Local North: Grid

WELL DETAILS: #262H						
Ground Elevation: 3582.8 ROD Elevation: KB = 1' @ 3364.0m (Original Well Elev) Rig Name: Original Well Elev						
+N-S	+E-W	Northing	Easting	Latitude	Longitude	Site
0.0	0.0	548141.790	631176.708	32° 50' 53.17" N	103° 10' 32.873" W	

SECTION DETAILS										
Sec	MD	Inc	Adj	TVD	+N-S	+E-W	Slag	Frame	Y-Coord	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.0	0.0	
2	3600.0	0.00	0.00	3600.0	0.0	0.0	0.00	0.00	0.0	
3	3831.6	90.72	310.04	3600.0	97.7	-119.3	38.20	310.04	151.8	
4	7450.9	90.72	310.04	3766.0	2390.2	-2844.0	0.00	0.00	3715.0	PBH, (EMSU 262H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)										
Name	TVD	+N-S	+E-W	Northing	Easting	Shape				
PBH, (EMSU 262H)	3756.0	2390.2	-2844.0	550231.900	828332.700	Point				
2000'	3774.0	1296.6	-1531.2	549428.345	829645.509	Point				
1000'	3784.0	643.3	-765.8	548783.022	830411.104	Point				
100'	3789.0	84.3	-75.8	548206.632	831106.140	Point				
400'	3796.0	257.3	-306.2	548398.020	830870.482	Point				
200'	3800.0	128.7	-153.1	548270.264	831023.581	Point				



Plan: Plan #1 (#262H/OH)
Created By: Michael Trout Date: 16 14 February 02 2012

YTS Planning Co.
12120
Geopac 2000
Plan #1



XTO Energy Co

Lea County
EMSU
#262H
OH

Plan: Plan #1

Pathfinder X & Y Report

02 February, 2012

PATHFINDER
A Schlumberger Company



Pathfinder
Pathfinder X & Y Report



Company:	XTO Energy Co	Local Co-ordinate Reference:	Well #262H
Project:	Lea County	TVD Reference:	KB = 12' @ 3594.0usft (Original Well Elev)
Site:	EMSU	MD Reference:	KB = 12' @ 3594.0usft (Original Well Elev)
Well:	#262H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 5000 1 Single User Db

Project:	Lea County		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site:	EMSU		
Site Position:		Northing:	553,359 900 usft
From:	Map	Easting:	825,829.500 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 31' 0.676 N
		Longitude:	103° 16' 34.700 W
		Grid Convergence:	0.57 "

Well		#262H				
Well Position	+N/-S	0.0 usft	Northing:	548,141 700 usft	Latitude	32° 30' 8.517 N
	+E/-W	0.0 usft	Easting:	831,178 700 usft	Longitude	103° 15' 32.875 W
Position Uncertainty	0.0 usft		Wellhead Elevation:	usft	Ground Level:	3,582.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	2/2/2012	7.37	60.51	48,791

Design:		Plan #1		
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	310.04

Survey Tool Program	Date:	2/2/2012		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	7,450.9	Plan #1 (OH)	MWD	MWD - Standard



Pathfinder
Pathfinder X & Y Report



Company:	XTO Energy Co	Local Co-ordinate Reference:	Well #262H
Project:	Lea County	TVD Reference:	KB = 12' @ 3594.0usft (Original Well Elev)
Site:	EMSU	MD Reference:	KB = 12' @ 3594.0usft (Original Well Elev)
Well:	#262H	North Reference:	Gnd
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 5000 1 Single User Db

Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
0 0	0 00	0 00	0 0	-3,594 0	0 0	0 0	0 0	0 00	548,141 70	831,176 70	
100 0	0 00	0 00	100 0	-3,494.0	0.0	0.0	0.0	0 00	548,141 70	831,176 70	
200 0	0 00	0 00	200 0	-3,394.0	0 0	0 0	0 0	0 00	548,141.70	831,176 70	
300 0	0 00	0 00	300 0	-3,294.0	0 0	0 0	0 0	0 00	548,141.70	831,176 70	
400 0	0 00	0 00	400.0	-3,194.0	0.0	0 0	0 0	0 00	548,141 70	831,176 70	
500 0	0 00	0 00	500.0	-3,094 0	0 0	0 0	0.0	0 00	548,141 70	831,176 70	
600 0	0 00	0 00	600.0	-2,994 0	0 0	0 0	0.0	0 00	548,141 70	831,176 70	
700 0	0 00	0 00	700 0	-2,894.0	0 0	0 0	0 0	0 00	548,141 70	831,176 70	
800 0	0 00	0 00	800 0	-2,794.0	0 0	0 0	0 0	0 00	548,141 70	831,176 70	
900 0	0 00	0 00	900 0	-2,694 0	0 0	0 0	0 0	0 00	548,141 70	831,176 70	
1,000 0	0 00	0 00	1,000.0	-2,594 0	0 0	0 0	0 0	0 00	548,141 70	831,176 70	
1,100 0	0 00	0 00	1,100 0	-2,494 0	0 0	0 0	0 0	0 00	548,141 70	831,176 70	
1,200 0	0 00	0 00	1,200 0	-2,394 0	0 0	0 0	0 0	0 00	548,141 70	831,176 70	
1,300 0	0 00	0 00	1,300 0	-2,294 0	0 0	0 0	0 0	0 00	548,141 70	831,176 70	
1,400 0	0 00	0 00	1,400.0	-2,194 0	0 0	0 0	0 0	0 00	548,141.70	831,176 70	
1,500 0	0 00	0 00	1,500 0	-2,094 0	0 0	0 0	0 0	0 00	548,141.70	831,176 70	
1,600 0	0 00	0 00	1,600 0	-1,994.0	0 0	0 0	0.0	0 00	548,141.70	831,176 70	
1,700 0	0 00	0 00	1,700 0	-1,894 0	0 0	0 0	0 0	0 00	548,141 70	831,176 70	
1,800.0	0 00	0 00	1,800.0	-1,794 0	0 0	0 0	0 0	0 00	548,141.70	831,176 70	
1,900.0	0 00	0 00	1,900 0	-1,694.0	0 0	0 0	0 0	0 00	548,141 70	831,176 70	
2,000 0	0 00	0 00	2,000 0	-1,594 0	0 0	0 0	0 0	0 00	548,141.70	831,176 70	
2,100 0	0 00	0 00	2,100 0	-1,494 0	0 0	0 0	0 0	0 00	548,141.70	831,176 70	
2,200 0	0 00	0 00	2,200.0	-1,394 0	0 0	0 0	0 0	0 00	548,141 70	831,176 70	
2,300 0	0 00	0 00	2,300.0	-1,294.0	0 0	0 0	0 0	0 00	548,141.70	831,176 70	
2,400 0	0 00	0 00	2,400 0	-1,194 0	0 0	0 0	0 0	0 00	548,141 70	831,176 70	
2,500 0	0 00	0 00	2,500.0	-1,094.0	0 0	0 0	0.0	0 00	548,141.70	831,176 70	
2,600 0	0 00	0 00	2,600 0	-994 0	0 0	0 0	0 0	0 00	548,141 70	831,176 70	



Pathfinder
Pathfinder X & Y Report



Company:	XTO Energy Co	Local Co-ordinate Reference:	Well #262H
Project:	Lea County	TVD Reference:	KB = 12' @ 3594.0usft (Original Well Elev)
Site:	EMSU	MD Reference:	KB = 12' @ 3594.0usft (Original Well Elev)
Well:	#262H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 5000 1 Single User Db

Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
2,700.0	0.00	0.00	2,700.0	-894.0	0.0	0.0	0.0	0.00	548,141.70	831,176.70	
2,800.0	0.00	0.00	2,800.0	-794.0	0.0	0.0	0.0	0.00	548,141.70	831,176.70	
2,900.0	0.00	0.00	2,900.0	-694.0	0.0	0.0	0.0	0.00	548,141.70	831,176.70	
3,000.0	0.00	0.00	3,000.0	-594.0	0.0	0.0	0.0	0.00	548,141.70	831,176.70	
3,100.0	0.00	0.00	3,100.0	-494.0	0.0	0.0	0.0	0.00	548,141.70	831,176.70	
3,200.0	0.00	0.00	3,200.0	-394.0	0.0	0.0	0.0	0.00	548,141.70	831,176.70	
3,300.0	0.00	0.00	3,300.0	-294.0	0.0	0.0	0.0	0.00	548,141.70	831,176.70	
3,400.0	0.00	0.00	3,400.0	-194.0	0.0	0.0	0.0	0.00	548,141.70	831,176.70	
3,500.0	0.00	0.00	3,500.0	-94.0	0.0	0.0	0.0	0.00	548,141.70	831,176.70	
3,600.0	0.00	0.00	3,600.0	6.0	0.0	0.0	0.0	0.00	548,141.70	831,176.70	
3,650.0	0.00	0.00	3,650.0	56.0	0.0	0.0	0.0	0.00	548,141.70	831,176.70	
3,660.0	3.82	310.04	3,660.0	66.0	0.2	-0.3	0.3	38.20	548,141.91	831,176.44	
3,670.0	7.84	310.04	3,669.9	75.9	0.9	-1.0	1.3	38.20	548,142.56	831,175.68	
3,680.0	11.46	310.04	3,679.8	85.8	1.9	-2.3	3.0	38.20	548,143.62	831,174.41	
3,690.0	15.28	310.04	3,689.5	95.5	3.4	-4.1	5.3	38.20	548,145.11	831,172.64	
3,700.0	19.10	310.04	3,699.1	105.1	5.3	-6.3	8.3	38.20	548,147.01	831,170.38	
3,710.0	22.92	310.04	3,708.4	114.4	7.6	-9.1	11.8	38.20	548,149.32	831,167.63	
3,720.0	26.74	310.04	3,717.5	123.5	10.3	-12.3	16.0	38.20	548,152.02	831,164.42	
3,730.0	30.56	310.04	3,726.3	132.3	13.4	-15.9	20.8	38.20	548,155.10	831,160.75	
3,740.0	34.38	310.04	3,734.7	140.7	16.9	-20.1	26.2	38.20	548,158.58	831,156.64	
3,750.0	38.20	310.04	3,742.8	148.8	20.7	-24.6	32.1	38.20	548,162.37	831,152.11	
3,760.0	42.02	310.04	3,750.4	156.4	24.8	-29.5	38.6	38.20	548,166.51	831,147.18	
3,770.0	45.84	310.04	3,757.6	163.6	29.3	-34.8	45.5	38.20	548,170.97	831,141.87	
3,780.0	49.66	310.04	3,764.3	170.3	34.0	-40.5	52.9	38.20	548,175.73	831,136.20	
3,790.0	53.48	310.04	3,770.5	176.5	39.1	-46.5	60.7	38.20	548,180.77	831,130.21	
3,800.0	57.30	310.04	3,776.2	182.2	44.4	-52.8	69.0	38.20	548,186.07	831,123.91	
3,810.0	61.12	310.04	3,781.3	187.3	49.9	-59.4	77.5	38.20	548,191.59	831,117.33	



Pathfinder
Pathfinder X & Y Report



Company:	XTO Energy Co	Local Co-ordinate Reference:	Well #262H
Project:	Lea County	TVD Reference:	KB = 12' @ 3594.0usft (Original Well Elev)
Site:	LEMSU	MD Reference:	KB = 12' @ 3594.0usft (Original Well Elev)
Well:	#262H	North Reference:	Gnd
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 5000.1 Single User Db

Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
3,820.0	64.94	310.04	3,785.9	191.9	55.6	-66.2	86.5	38.20	548,197.33	831,110.51	
3,830.0	68.76	310.04	3,789.8	195.8	61.5	-73.2	95.7	38.20	548,203.24	831,103.47	
3,840.0	72.58	310.04	3,793.1	199.1	67.6	-80.4	105.1	38.20	548,208.31	831,096.25	
3,850.0	76.40	310.04	3,795.8	201.8	73.8	-87.8	114.7	38.20	548,215.51	831,088.86	
3,860.0	80.22	310.04	3,797.8	203.8	80.1	-95.3	124.5	38.20	548,221.81	831,081.38	
3,870.0	84.04	310.04	3,799.2	205.2	86.5	-102.9	134.4	38.20	548,228.18	831,073.80	
3,880.0	87.88	310.04	3,799.9	205.9	92.9	-110.5	144.4	38.20	548,234.60	831,066.17	
3,887.5	90.72	310.04	3,800.0	208.0	97.7	-116.3	151.9	38.20	548,239.42	831,060.43	
3,900.0	90.72	310.04	3,799.8	205.8	105.8	-125.8	164.4	0.00	548,247.48	831,050.86	
4,000.0	90.72	310.04	3,798.6	204.6	170.1	-202.4	264.4	0.00	548,311.80	830,974.31	
4,100.0	90.72	310.04	3,797.3	203.3	234.4	-278.9	384.4	0.00	548,376.13	830,897.78	
4,200.0	90.72	310.04	3,796.0	202.0	298.8	-355.5	464.4	0.00	548,440.46	830,821.21	
4,300.0	90.72	310.04	3,794.8	200.8	363.1	-432.0	564.4	0.00	548,504.80	830,744.86	
4,400.0	90.72	310.04	3,793.5	199.5	427.4	-508.6	664.3	0.00	548,568.13	830,668.12	
4,500.0	90.72	310.04	3,792.2	198.2	491.8	-585.1	764.3	0.00	548,633.47	830,591.57	
4,600.0	90.72	310.04	3,791.0	197.0	556.1	-661.7	864.3	0.00	548,697.80	830,515.02	
4,700.0	90.72	310.04	3,789.7	195.7	620.4	-738.2	964.3	0.00	548,762.13	830,438.47	
4,800.0	90.72	310.04	3,788.5	194.5	684.8	-814.8	1,064.3	0.00	548,826.47	830,361.92	
4,900.0	90.72	310.04	3,787.2	193.2	749.1	-891.3	1,164.3	0.00	548,890.80	830,285.38	
5,000.0	90.72	310.04	3,785.9	191.9	813.4	-967.9	1,264.3	0.00	548,955.13	830,208.83	
5,100.0	90.72	310.04	3,784.7	190.7	877.8	-1,044.4	1,364.3	0.00	549,019.47	830,132.28	
5,200.0	90.72	310.04	3,783.4	189.4	942.1	-1,121.0	1,464.3	0.00	549,083.80	830,055.73	
5,300.0	90.72	310.04	3,782.1	188.1	1,006.4	-1,197.5	1,564.3	0.00	549,148.13	829,979.18	
5,400.0	90.72	310.04	3,780.9	186.9	1,070.6	-1,274.1	1,664.3	0.00	549,212.47	829,902.64	
5,500.0	90.72	310.04	3,779.6	185.6	1,135.1	-1,350.6	1,764.3	0.00	549,276.80	829,826.09	
5,600.0	90.72	310.04	3,778.4	184.4	1,199.4	-1,427.2	1,864.3	0.00	549,341.14	829,749.54	
5,700.0	90.72	310.04	3,777.1	183.1	1,263.8	-1,503.7	1,964.2	0.00	549,405.47	829,672.99	



Pathfinder
Pathfinder X & Y Report



Company:	XTO Energy Co	Local Co-ordinate Reference:	Well #262H
Project:	Lea County	TVD Reference:	KB = 12' @ 3594.0usft (Original Well Elev)
Site:	EMSU	MD Reference:	KB = 12' @ 3594.0usft (Original Well Elev)
Well:	#262H	North Reference:	Gnd
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 5000.1 Single User Db

Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec. (usft)	DLeg (/100usft)	Northing (usft)	Easting (usft)	
5,800.0	90.72	310.04	3,775.8	181.8	1,328.1	-1,580.3	2,064.2	0.00	549,469.80	829,595.45	
5,900.0	90.72	310.04	3,774.6	180.6	1,392.4	-1,556.8	2,164.2	0.00	549,534.14	829,519.90	
6,000.0	90.72	310.04	3,773.3	179.3	1,458.8	-1,733.4	2,264.2	0.00	549,598.47	829,443.35	
6,100.0	90.72	310.04	3,772.1	178.1	1,521.1	-1,809.9	2,364.2	0.00	549,662.80	829,366.80	
6,200.0	90.72	310.04	3,770.8	176.8	1,585.4	-1,886.4	2,464.2	0.00	549,727.14	829,290.25	
6,300.0	90.72	310.04	3,769.5	175.5	1,649.8	-1,963.0	2,564.2	0.00	549,791.47	829,213.71	
6,400.0	90.72	310.04	3,768.3	174.3	1,714.1	-2,039.5	2,664.2	0.00	549,855.81	829,137.16	
6,500.0	90.72	310.04	3,767.0	173.0	1,778.4	-2,116.1	2,764.2	0.00	549,920.14	829,060.61	
6,600.0	90.72	310.04	3,765.7	171.7	1,842.8	-2,192.6	2,864.2	0.00	549,984.47	828,984.06	
6,700.0	90.72	310.04	3,764.5	170.5	1,907.1	-2,269.2	2,964.2	0.00	550,048.81	828,907.51	
6,800.0	90.72	310.04	3,763.2	169.2	1,971.4	-2,345.7	3,064.2	0.00	550,113.14	828,830.97	
6,900.0	90.72	310.04	3,762.0	168.0	2,035.8	-2,422.3	3,164.1	0.00	550,177.47	828,754.42	
7,000.0	90.72	310.04	3,760.7	166.7	2,100.1	-2,498.8	3,264.1	0.00	550,241.81	828,677.87	
7,100.0	90.72	310.04	3,759.4	165.4	2,164.4	-2,575.4	3,364.1	0.00	550,306.14	828,601.32	
7,200.0	90.72	310.04	3,758.2	164.2	2,228.8	-2,651.9	3,464.1	0.00	550,370.47	828,524.77	
7,300.0	90.72	310.04	3,756.9	162.9	2,293.1	-2,728.5	3,564.1	0.00	550,434.81	828,448.23	
7,400.0	90.72	310.04	3,755.6	161.6	2,357.4	-2,805.0	3,664.1	0.00	550,499.14	828,371.68	
7,450.9	90.72	310.04	3,755.0	161.0	2,390.2	-2,844.0	3,715.0	0.00	550,531.90	828,332.70	

Checked By: _____ Approved By: _____ Date: _____

XTO - EMSU #262H - Plan #1 - TXT

HEADER INFORMATION

COMPANY : XTO Energy Co
FIELD : Lea County
SITE : EMSU
WELL : #262H
WELLPATH: OH
DEPTHUNT: usft

WELL INFORMATION

WELL EW MAP : 831176.70
WELL NS MAP : 548141.70
DATUM ELEVN : 3594.00
VSECT ANGLE : 310.04
VSECT NORTH : 0.00
VSECT EAST : 0.00

SURVEY TYPE INFORMATION

H 0.00 - 7450.92 PLAN #1 : MWD

SURVEY LIST

MD	INC	AZI	TVD	VSEC	N/S	E/W
0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00
1000.00	0.00	0.00	1000.00	0.00	0.00	0.00
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00
1200.00	0.00	0.00	1200.00	0.00	0.00	0.00
1300.00	0.00	0.00	1300.00	0.00	0.00	0.00
1400.00	0.00	0.00	1400.00	0.00	0.00	0.00
1500.00	0.00	0.00	1500.00	0.00	0.00	0.00
1600.00	0.00	0.00	1600.00	0.00	0.00	0.00
1700.00	0.00	0.00	1700.00	0.00	0.00	0.00
1800.00	0.00	0.00	1800.00	0.00	0.00	0.00
1900.00	0.00	0.00	1900.00	0.00	0.00	0.00
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00
2100.00	0.00	0.00	2100.00	0.00	0.00	0.00
2200.00	0.00	0.00	2200.00	0.00	0.00	0.00
2300.00	0.00	0.00	2300.00	0.00	0.00	0.00
2400.00	0.00	0.00	2400.00	0.00	0.00	0.00
2500.00	0.00	0.00	2500.00	0.00	0.00	0.00
2600.00	0.00	0.00	2600.00	0.00	0.00	0.00
2700.00	0.00	0.00	2700.00	0.00	0.00	0.00
2800.00	0.00	0.00	2800.00	0.00	0.00	0.00
2900.00	0.00	0.00	2900.00	0.00	0.00	0.00
3000.00	0.00	0.00	3000.00	0.00	0.00	0.00
3100.00	0.00	0.00	3100.00	0.00	0.00	0.00
3200.00	0.00	0.00	3200.00	0.00	0.00	0.00
3300.00	0.00	0.00	3300.00	0.00	0.00	0.00
3400.00	0.00	0.00	3400.00	0.00	0.00	0.00

XTO - EMSU #262H - Plan #1 - TXT

3500.00	0.00	0.00	3500.00	0.00	0.00	0.00
3600.00	0.00	0.00	3600.00	0.00	0.00	0.00
3650.00	0.00	0.00	3650.00	0.00	0.00	0.00
3660.00	3.82	310.04	3659.99	0.33	0.21	-0.26
3670.00	7.64	310.04	3669.94	1.33	0.86	-1.02
3680.00	11.46	310.04	3679.80	2.99	1.92	-2.29
3690.00	15.28	310.04	3689.53	5.30	3.41	-4.06
3700.00	19.10	310.04	3699.08	8.26	5.31	-6.32
3710.00	22.92	310.04	3708.41	11.84	7.62	-9.07
3720.00	26.74	310.04	3717.49	16.04	10.32	-12.28
3730.00	30.56	310.04	3726.26	20.83	13.40	-15.95
3740.00	34.38	310.04	3734.70	26.20	16.86	-20.06
3750.00	38.20	310.04	3742.75	32.12	20.67	-24.59
3760.00	42.02	310.04	3750.40	38.56	24.81	-29.52
3770.00	45.84	310.04	3757.60	45.50	29.27	-34.83
3780.00	49.66	310.04	3764.32	52.90	34.03	-40.50
3790.00	53.48	310.04	3770.54	60.73	39.07	-46.49
3800.00	57.30	310.04	3776.22	68.96	44.37	-52.79
3810.00	61.12	310.04	3781.34	77.55	49.89	-59.37
3820.00	64.94	310.04	3785.87	86.46	55.63	-66.19
3830.00	68.76	310.04	3789.80	95.65	61.54	-73.23
3840.00	72.58	310.04	3793.11	105.09	67.61	-80.45
3850.00	76.40	310.04	3795.78	114.72	73.81	-87.82
3860.00	80.22	310.04	3797.81	124.51	80.11	-95.32
3870.00	84.04	310.04	3799.18	134.41	86.48	-102.90
3880.00	87.86	310.04	3799.88	144.39	92.90	-110.53
3887.50	90.72	310.04	3799.98	151.88	97.72	-116.27
3900.00	90.72	310.04	3799.82	164.39	105.76	-125.84
4000.00	90.72	310.04	3798.56	264.38	170.10	-202.39
4100.00	90.72	310.04	3797.29	364.37	234.43	-278.94
4200.00	90.72	310.04	3796.03	464.36	298.76	-355.49
4300.00	90.72	310.04	3794.77	564.35	363.10	-432.04
4400.00	90.72	310.04	3793.51	664.35	427.43	-508.58
4500.00	90.72	310.04	3792.25	764.34	491.77	-585.13
4600.00	90.72	310.04	3790.98	864.33	556.10	-661.68
4700.00	90.72	310.04	3789.72	964.32	620.43	-738.23
4800.00	90.72	310.04	3788.46	1064.31	684.77	-814.78
4900.00	90.72	310.04	3787.20	1164.31	749.10	-891.32
5000.00	90.72	310.04	3785.94	1264.30	813.43	-967.87
5100.00	90.72	310.04	3784.67	1364.29	877.77	-1044.42
5200.00	90.72	310.04	3783.41	1464.28	942.10	-1120.97
5300.00	90.72	310.04	3782.15	1564.27	1006.43	-1197.52
5400.00	90.72	310.04	3780.89	1664.27	1070.77	-1274.06
5500.00	90.72	310.04	3779.62	1764.26	1135.10	-1350.61
5600.00	90.72	310.04	3778.36	1864.25	1199.44	-1427.16
5700.00	90.72	310.04	3777.10	1964.24	1263.77	-1503.71
5800.00	90.72	310.04	3775.84	2064.23	1328.10	-1580.25
5900.00	90.72	310.04	3774.58	2164.23	1392.44	-1656.80
6000.00	90.72	310.04	3773.31	2264.22	1456.77	-1733.35
6100.00	90.72	310.04	3772.05	2364.21	1521.10	-1809.90
6200.00	90.72	310.04	3770.79	2464.20	1585.44	-1886.45
6300.00	90.72	310.04	3769.53	2564.19	1649.77	-1962.99
6400.00	90.72	310.04	3768.26	2664.19	1714.11	-2039.54
6500.00	90.72	310.04	3767.00	2764.18	1778.44	-2116.09
6600.00	90.72	310.04	3765.74	2864.17	1842.77	-2192.64
6700.00	90.72	310.04	3764.48	2964.16	1907.11	-2269.19

XTO - EMSU #262H - Plan #1 - TXT

6800.00	90.72	310.04	3763.22	3064.15	1971.44	-2345.73
6900.00	90.72	310.04	3761.95	3164.15	2035.77	-2422.28
7000.00	90.72	310.04	3760.69	3264.14	2100.11	-2498.83
7100.00	90.72	310.04	3759.43	3364.13	2164.44	-2575.38
7200.00	90.72	310.04	3758.17	3464.12	2228.77	-2651.93
7300.00	90.72	310.04	3756.90	3564.11	2293.11	-2728.47
7400.00	90.72	310.04	3755.64	3664.11	2357.44	-2805.02
7450.92	90.72	310.04	3755.00	3715.02	2390.20	-2844.00

EMSU #262H

FILL LINE →

KB elev = 3599

KB-Grd = 17.0'

30"

109"

46"

5000#

21"

52 1/2"

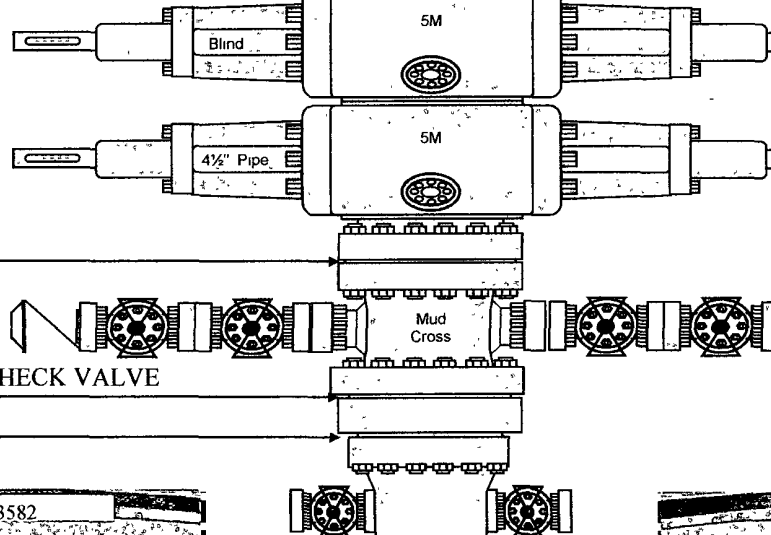
19.5"

23 1/2"

CHECK VALVE

8"

Grd. Elev = 3582



**Drilling Operations
Choke Manifold
5M Service**

Exhibit E-1 – Choke Manifold Diagram

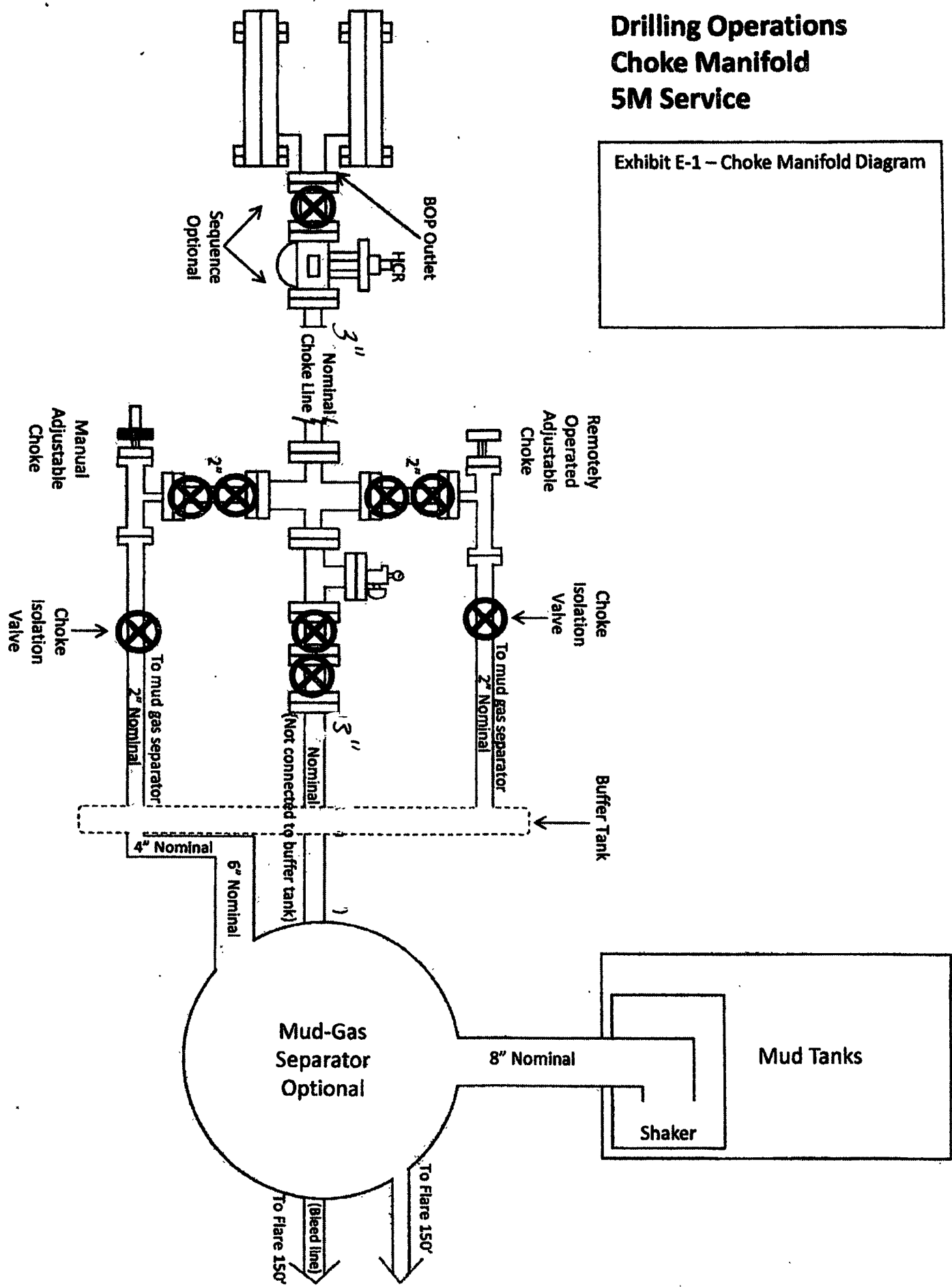
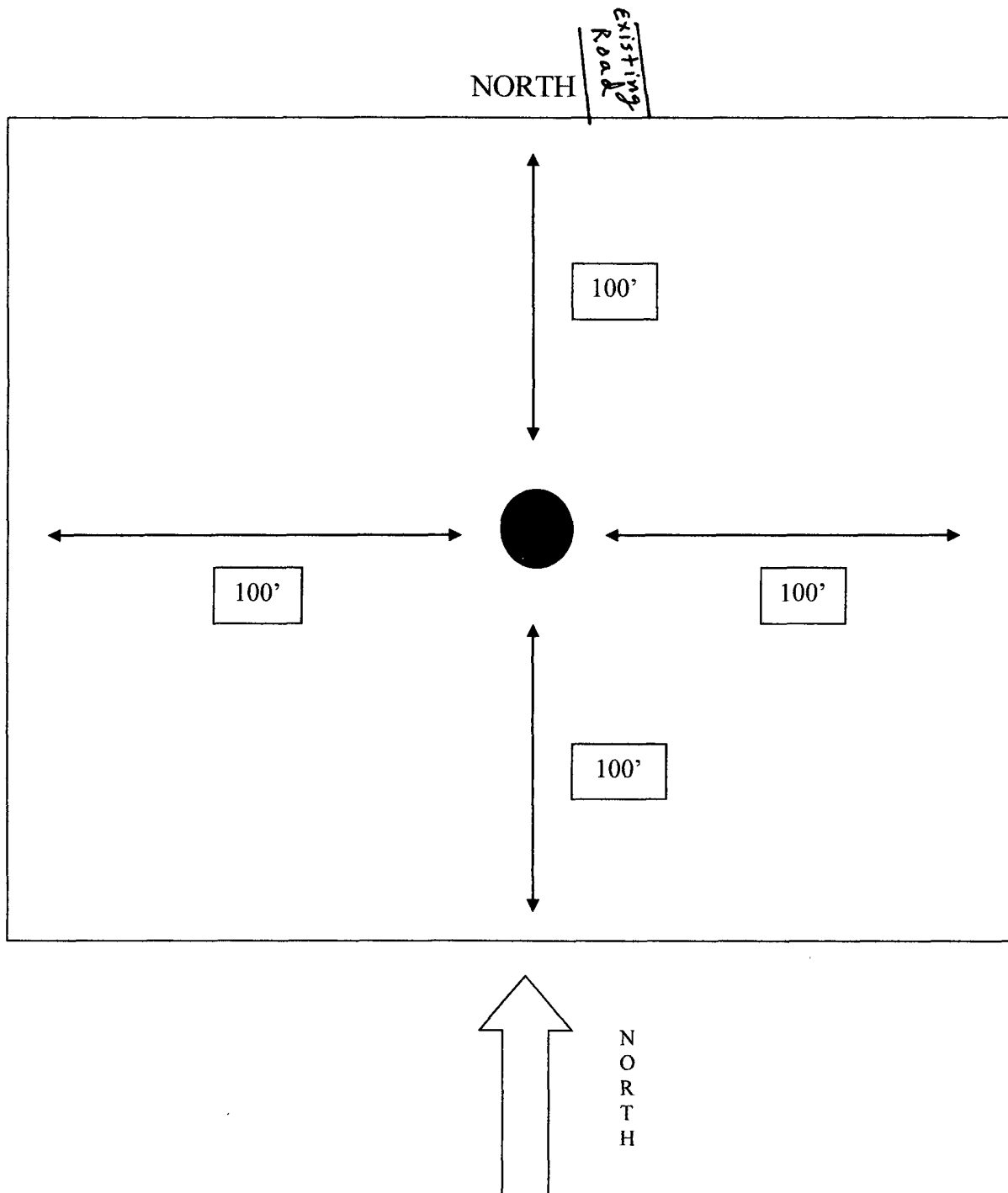


EXHIBIT 'A'

Rig Plat Only
EMSU 262H
V-DOOR EAST



HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

Hydrogen Sulfide Training:

All regularly assigned personnel, contracted or employed by XTO Energy, Inc. will receive training from qualified instructor(s) in the following areas prior to commencing drilling possible hydrogen sulfide bearing formations in this well:

The hazards and characteristics of hydrogen sulfide (H₂S)

The proper use and maintenance of personal protective equipment and life support systems.

The proper use of H₂S detectors, alarms, warning systems, briefing area, evacuation procedures & prevailing winds.

The proper techniques for first aid and rescue procedures.

Supervisory personnel will be trained in the following areas:

The effects of H₂S on metal components. If high tensile tubulars are to be utilized, personnel will be trained in their special maintenance requirements.

Corrective action & shut-in procedures when drilling or reworking a well & blowout prevention / well control procedures.

The contents and requirements of the H₂S Drilling Operations Plan

H₂S SAFETY EQUIPMENT AND SYSTEMS:

Well Control Equipment:

Flare Line w/continuous pilot. Choke manifold with a minimum of one remote choke.

Blind rams and pipe rams to accommodate all pipe sizes w/properly sized closing unit.

Auxiliary equipment to include: annular preventer, ude-gas separator, rotating head & flare.

Protective Equipment for Essential Personnel:

Mark II Survive-air 30 minute units located in dog house & at briefing areas, as indicated on wellsite diagram.

H₂S Detection and Monitoring Equipment:

Two portable H₂S monitors positioned on location for best coverage and response. These units have warning lights and audible sirens when H₂S levels of 20 ppm are reached.

One portable H₂S monitor positioned near flare line.

H₂S Visual Warning Systems:

Wind direction indicators are shown on wellsite diagram.

Caution / Danger signs shall be posted on roads providing direct access to location. Signs will be painted a high visibility yellow with black lettering of sufficient size to be readable at a reasonable distance from the immediate location. Bilingual signs will be used when appropriate.

Mud Program:

The Mud Program has been designed to minimize the volume of H₂S circulated to the surface. Proper mud weights, safe drilling practices and the use of H₂S scavengers will minimize hazards when penetrating H₂S bearing zones. A mud-gas separator will be utilized as needed.

Metallurgy:

All drill strings, casing, tubing, wellhead, blowout preventers, drilling spool, kill lines, choke manifold and line and valves will be suitable for H₂S service.

Communication:

Cellular telephone communications in company vehicles, rig floor and mud logging trailer.