

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-101
May 27, 2004

Submit to appropriate District Office

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

Operator Name and Address XTO Energy Inc; 200 N. Lomaine, Ste 800; Midland TX 79701		OGIPD Number 53810
Property Code 301587	Property Name North Vacuum WBO Unit	API Number 30-025-28317
Proposed Pool 1 North Vacuum ABO		Proposed Pool 2

Surface Location

UT or lot no.	Section	Township	Range	Lot Idn	Feet from the	North-South line	Feet from the	East-West line	County
A	26	17S	34 E		530	North	660	East	Lea

Proposed Bottom Hole Location If Different From Surface

UT or lot no.	Section	Township	Range	Lot Idn	Feet from the	North-South line	Feet from the	East-West line	County
A	26	17S	34 E		1657	North	1776	East	Lea

Additional Well Information

Work Type Code EP	Well Type Code O	Cable Rotary Rotary	Lease Type Code S	Ground Level Elevation 4026'
Multiple ☐	Proposed Depth 10,100'	Formation ABO	Contractor Basic	Spud Date ASAP
Depth to Groundwater 200'		Distance from nearest fresh water well >1000		Distance from nearest surface water >1000
Liner: Synthetic ☒ 12" mils thick Clay ☐ Pit Volume: 2000 bbls Drilling Method: Closed-Loop System ☐ Fresh Water ☒ Brine ☒ Diesel/Oil-based ☐ Gas/Air ☐				

Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight-foot	Setting Depth	Sacks of Cement	Estimated TOC
17 1/2"	13 3/8"	48# H-40	405	400	Circ to Surf.
12 1/4"	8 5/8"	32# J-55	4918	3825	Circ to Surf.
7 7/8"	5 1/2"	17# N80	8699	1200	Circ to Surf.
	2 3/8"		8623		

22 Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

* See attached procedure for adding lateral.

MUD PROGRAM: 8.4-8.9 fresh water from Kickoff point 8200'-8300' to 10,100'.

CROP will be set between 8200'-8300' with whipstock on top for directional drilling.

BOP: Case III

7 1/16" 3000# w/ Hydril

Single pipe ram, blind ram + manifold.

Permit Expires 1 Year From Approval
Date Unless Drilling Underway
Horizontal

23 I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines ☒, a general permit ☐, or an (attached) alternative OGD-approved plan ☐.

Signature:

Sorina L. Flores

Printed name:

Sorina L. Flores

Title:

Drilling Tech

E-mail Address:

Sorina_flores@xtenergy.com

Date:

12/21/06

Phone:

432-620-6749

OIL CONSERVATION DIVISION

Approved by:

Chris Williams

Title:

OG DISTRICT SUPERVISOR/GENERAL MANAGER

Approval Date:

JAN 08 2007

Expiration Date:

Conditions of Approval Attached ☐

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State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-28317	Pool Code 61760	Pool Name North Vacuum ABO
Property Code 301587	Property Name North Vacuum ABO Unit	Well Number 237 H
OGRID No. 005380	Operator Name XTO Energy Inc.	Elevation 4026'

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	26	19S	34E		530	North	660	East	lea

Bottom Hole Location If Different From Surface

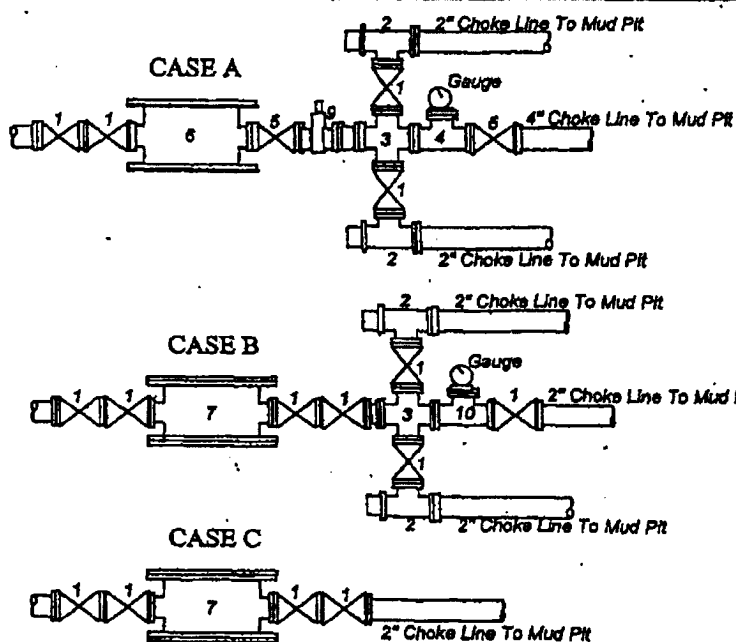
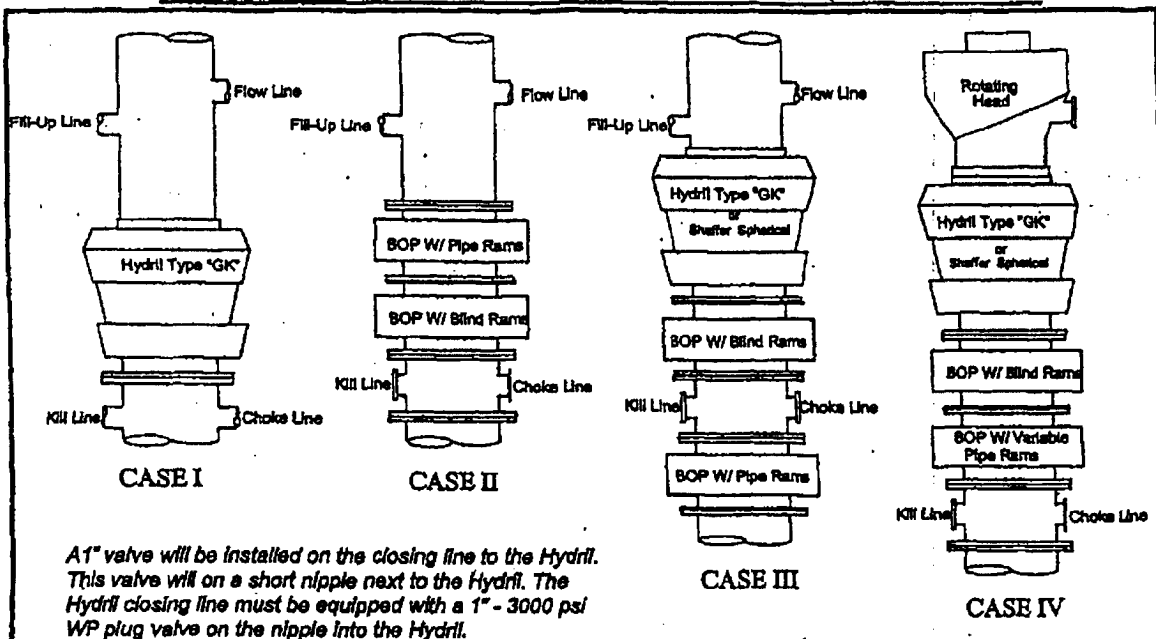
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	26	19S	34E		1657	North	1776	East	lea

Dedicated Acres (2 wells) 80 acres	Joint or Infill	Consolidation Code	Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

16				17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete, as far as I am concerned, and that this information is true and correct as far as I am concerned, and that this information is true and correct as far as I am concerned, and that this information is true and correct as far as I am concerned. Signature: <i>Sarina L. Flores</i> Date: 12/21/06 Printed Name: Sarina L. Flores
				18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Date of Survey Signature and Seal of Professional Surveyor Certificate Number
* This well being drilled under provisions of Rule 2 of the North Vacuum ABO pool rules.				

MINIMUM BLOWOUT PREVENTER REQUIREMENTS



BOP SIZE	BOP CASE	WORKING PRESSURE	CHOKE CASE
13-5/8"	IV	5000	A

**Rotating head required*

Bradenhead furnished by Conoco will be:
 Mr. Wood Group
 Description: 13-3/8" x 13-5/8" 3M
 Type: SCW

Legend

1. 2" flanged all steel valve must be either Cameron "F", Halliburton Low Torque or Shaffer Flo-Seal.
2. 2" flanged adjustable chokes, min. 1" full opening & equipped with hard trim.
3. 4" x 2" flanged steel cross.
4. 4" flanged steel tee.
5. 4" flanged all steel valve (Type as in no. 1).
6. Drilling Spool with 2" x 4" flanged outlet.
7. Drilling Spool with 2" x 2" flanged outlet.
8. 2" x 2" flanged steel cross.
9. 4" pressure operated gate valve.
10. 2" flanged steel tee.

Notes

Choke manifold may be located in any convenient position. Use all steel fittings throughout. Make 90° turns with bull plugged tees only. No field welding will be permitted on any of the components of the choke manifold and related equipment upstream of the chokes. The choke spool and all lines and fittings must be at least equivalent to the test pressure of the preventers required. Independent closing control unit with clearly marked controls to be located on derrick floor near driller's position.

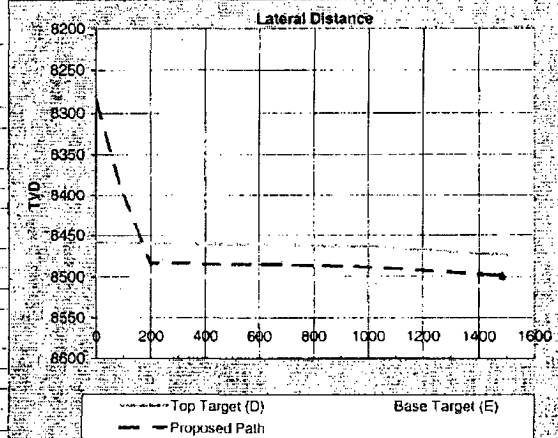
MASTER GEOLOGICAL WELL PLAN & AFE REQUEST (Single Horizontal Well)			
For Directional Information Use the Yellow Tab Below.			
OPERATOR	XTO Energy		BY: Richard Simpson
WELL NAME	NVAU 237 H		DATE: August 31, 2006
LOCATION	SEC 26 TWN 17S RNG 34E (North Vacuum Abo Unit)	COUNTY / STATE	Lea, New Mexico
SHL	570 FNL and 660 FEL	Spud Date	2006
BHL	1657 FNL and 1776 FEL	Remarks	
PROPOSED T.V.D.	8,498'		
PROPOSED T.D.	10,100'	MD/TD	
Geologist:	Richard Simpson	Office	(817)-885-2386
If no response, please leave a message and wait at least 15 minutes before calling the backup		Home	(817)-447-3633
		Cell	(817)-703-8579
Backup Contact	Charles Ways	Office	817-885-2801
(If Richard Simpson is unavailable)		Home	817-557-1937
		Cell: (Call Cell First)	817-680-8302
EXPECTED FORMATION TOPS	Approx KB		4036'
Formation	Subsea Depth (feet)	Well Depth (feet)	
Abo A	-4,374'	8,410'	
Abo D	-4,422'	8,458'	
Abo E	-4,466'	8,502'	
MUD LOG:			
DEPTH ON	DEPTH OFF	MUD LOGGING COMPANY	TYPE UNIT
After milling window	TD	Sutles	2-man
SAMPLES:	Caught & Bagged	Depth Interval	No. of Sets of Samples
1 full bag	Every 10 feet	window-TD	1 set of dry samples
OPENHOLE LOGS:	TYPE LOGS	WELL DEPTH	LOG INTERVAL
LOGGING COMPANY	To Be Determined		Casing to TD
Logs:	GR while drilling		
Remarks:	E-Mail GR and Survey twice daily to 'richard_simpson@xtoenergy.com'		
Well Type:			
DEVELOPMENT:	XX	NEW WELL:	OIL: XX
EXPLORATORY:		RE-ENTRY: XX	GAS
REMARK			INJECTOR:
DRILL STEM TESTS:	FORMATION	DEPTH	DEFINITE/POSS/PROB
	1) NONE		
	2)		
CORES:	FORMATION	CORE INTERVAL	CORE ANALYSIS
	1) NONE		
	2)		
Special Instructions:			
(Poss. Lost Circ., Hi-Press Zones, Mud Properties, etc)			

AFE 654066
ID 61507

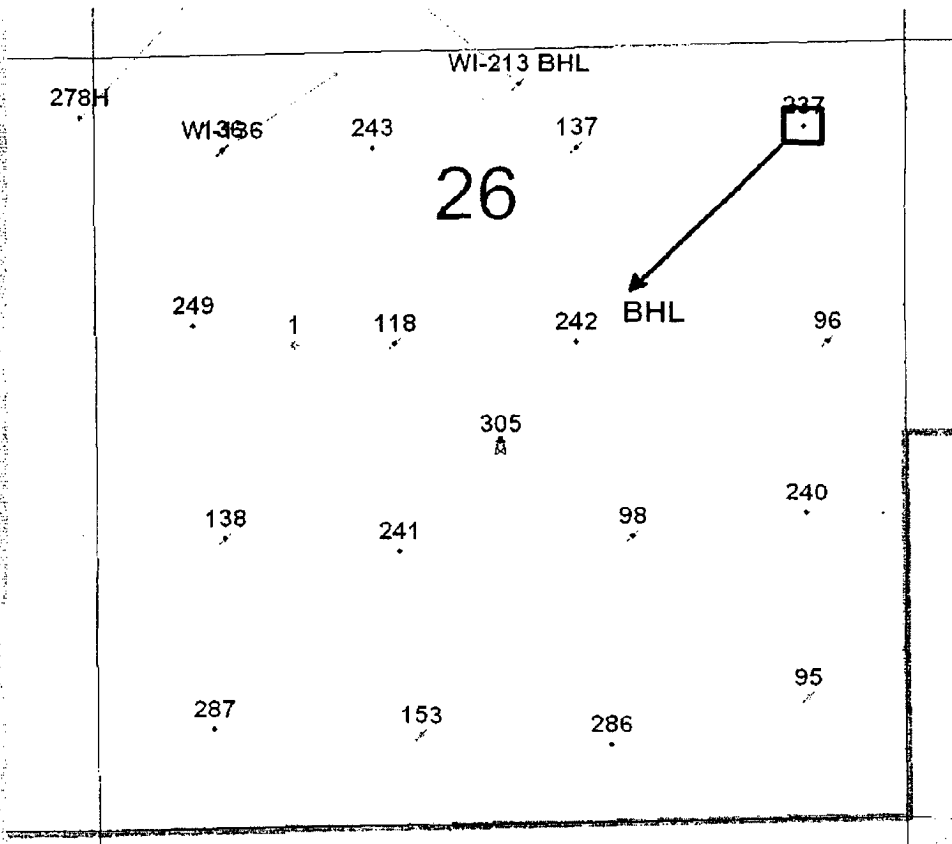
NVAU 237 H

Approx Length 1575
 HZ Direction 224°
 Inflection point None
 Window Depth (ft) 8285

Lateral Distance	Proposed Path	Top Target SS (D)	Top Target MD (D)	Base Target SS (E)	Base Target MD (E)	KB
0	8285	-4422	8458	-4462	8498	4036
100	8400	-4422	8458	-4462	8498	4036
200	8484	-4423	8459	-4463	8499	4036
300	8484	-4423	8459	-4463	8499	4036
400	8485	-4424	8460	-4464	8500	4036
500	8485	-4424	8460	-4464	8500	4036
600	8486	-4425	8461	-4465	8501	4036
700	8486	-4425	8461	-4465	8501	4036
800	8487	-4426	8462	-4466	8502	4036
900	8488	-4427	8463	-4467	8503	4036
1,000	8489	-4428	8464	-4468	8504	4036
1,100	8491	-4430	8466	-4470	8506	4036
1,200	8493	-4432	8468	-4472	8508	4036
1,300	8495	-4434	8470	-4474	8510	4036
1,400	8497	-4436	8472	-4476	8512	4036
1,500	8499	-4438	8474	-4478	8514	4036



Vertical Tolerance= 10 feet up or down.
 Remarks: Open Hole Completion



NVA # 237Richard
Lauderdale