		OMB No.	1004-0137		
interior 2005 NOV - S		Expires M 15. Léase Serial No. NMNM-14922	arch 31, 20	07	
_)illia	1)	or Tribe N	lame	
	/ 1 .		amont No	ma and No	
ER		VALENCIA C	ANYON		78429B
✓ Single Zone Multip	le Zone	VALENCIA C	ANYON	UNIT 45 C	
		9. API Well No. 30-039-	969	7	
3b. Phone No. (include area code) (505) 324-1090			•	*	
ny State requirements.*)				vey or Area	
		J 34-2014-4 VV 141	ATL IAT		
		12. County or Parish RIO ARRIBA		13. State NM	
16. No. of acres in lease	17. Spacii	ng Unit dedicated to this v	veli		
640	S2 (3	20 ac.)			
19. Proposed Depth	20. BLM	BIA Bond No. on file		 	
7,198'	BLM	I NATIONWIDE 57 9	173		
1	rt*	23. Estimated duratio 4 WEEKS	n		
1		<u></u>			
	ttached to t	his form:			
	he operation	ons unless covered by an	existing I	bond on file (see	
· · · · · · · · · · · · · · · · · · ·	cation				
		formation and/or plans as	s may be r	equired by the	
Name (Printed/Typed)			Date		
			11/	05/2005	
	FA	X: (505) 466-9682	Date -	/. /	
			91	1/2/6	6
Office				,	
ds legal or equitable title to those righ	hts in the su	bject lease which would	entitle the	applicant to	•
crime for any person knowingly and s to any matter within its jurisdiction.	willfully to	make to any department	or agency	of the United	=
		15 16 17 18	193		:
r divections	1 5	22V21/2		3	
7		DE TON HOLE	: lund	~ <u>~</u>	
	(c)	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Dar.	14.25	
	AGEMENT DRILL OR REENTER Single Zone Multip 3b. Phone No. (include area code) (505) 324-1090 ny State requirements.*) 16. No. of acres in lease 640 19. Proposed Depth 7,198' 22. Approximate date work will sta 05/01/2006 24. Attachments ore Oil and Gas Order No.1, shall be a 14. Bond to cover t 16m 20 above). 5. Operator certifi 6. Such other site authorized offi Name (Printed/Typed) BRIAN WOOD PHONE: (505) 466-8120 Name (Printed/Typed) Office Office Crime for any person knowingly and s to any matter within its jurisdiction.	AGEMENT DRILL OR REENTER Single Zone Multiple Zone 3b. Phone No. (include area code) (505) 324-1090 The State requirements.*) 16. No. of acres in lease 640 19. Proposed Depth 7,198' 22. Approximate date work will start* 05/01/2006 24. Attachments The Oil and Gas Order No.1, shall be attached to the start of the perate of the pera	OMB NO Expires M 15. Léasé Serial No NMNM-14922 G. If Indian, Allotee N/A ER	OMB No. 1004-0137 Expires March 31, 20 15. Léasé Serial No. NMNM-14922 6. If Indian, Allotee or Tribe N/A 7. If Unit or CA Agreement, Na. VALENCIA CANYON VALENCIA CANYON 9. API Well No. 30-039- 22 66 10. Field and Pool, or Explorator BLANCO MESA VER 11. Sec., T. R. M. or Blk. and Sur 2 34-28N-4W NMPM 12. County or Parish RIO ARRIBA 16. No. of acres in lease 640 S2 (320 ac.) 19. Proposed Depth 7,198' 10. Pield and No. on file BLM NATIONWIDE 57 91 73 22. Approximate date work will start* 05/01/2006 24. Attachments 15. Departor certification 6. Such other site specific information and/or plans as may be a authorized officer. Name (Printed/Typed) BRIAN WOOD PHONE: (505) 466-8120 FAX: (505) 466-9682 Name (Printed/Typed) Date Office Office Office Office Crime for any person knowingly and willfully to make to any department or agency sto any matter within its jurisdiction.	Section Sect

NMOCD



DISTRICT I 1825 N. French Dr., Hobbs, N.M. 88240

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised June 10, 2003

1301 W. Grand Ave., Artesia, N.M. 88210

OII CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

Submit to Appropriate District Office State Lease - 4 Copies

1000 Rio Brazos Rd., Aztec, N.M. 87410

API Number

10.11.11

☐ AMENDED REPORT

Fee Lease - 3 Copies

1220 South St. Francis Dr., Santa Fe, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT-³Pool Name ²Pool Code 20-039-2960 72139 **BLANCO MESA VERDE** Well Number ⁶Property Name

Property Code 2289 VALENCIA CANYON UNIT 45C Operator Name OGRID No • Elevation 167067 XTO ENERGY INC. 7197

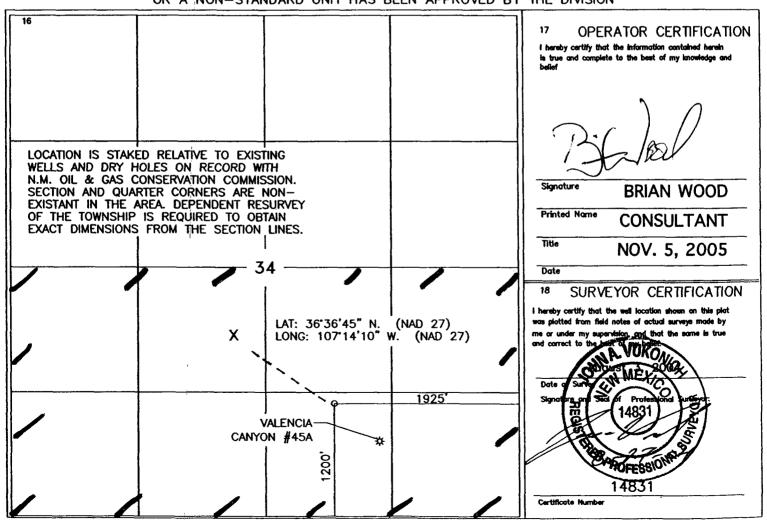
¹⁰ Surface Location

UL or lot no. Section Township Lot Idn Feet from the North/South line Feet from the East/West line Range County RIO ARRIBA SOUTH . EAST . 0 34 28-N 4-W 1200 1925.

> ¹¹ 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 **4W** 34 28N 1900 SOUTH 2300 WEST RIO ARRB. 14 Consolidation Code 15 Order No. Dedicated Acres Joint or Infill 320

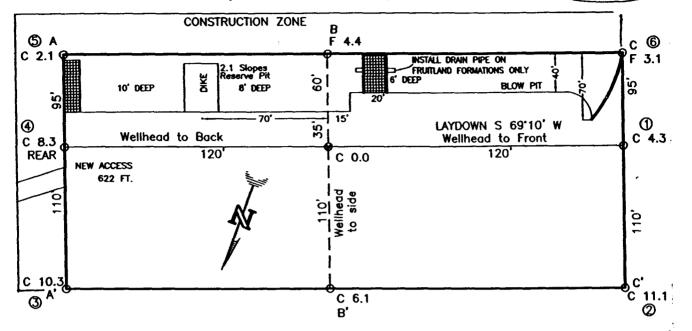
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



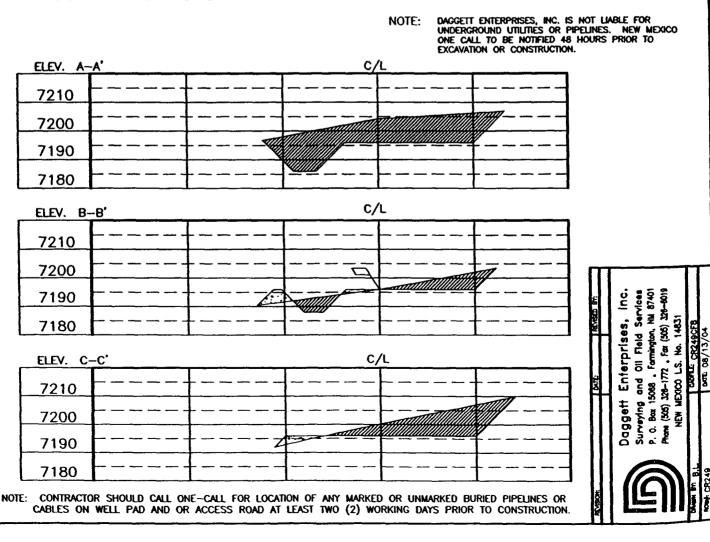
Submit 3 Copies To Appropriate District Office District I	State of New Mexico Energy, Minerals and Natural Resources		Form C-103 May 27, 2004
1625 N. French Dr., Hobbs, NM 88240 District II			WELL API NO. 30-039-29697
1301 W. Grand Ave., Artesia, NM 88210 District III	OIL CONSERVATION DIVISION 1220 South St. Francis Dr.		5. Indicate Type of Lease
1000 Rio Brazos Rd., Aztec, NM 87410	Santa Fe, NM 8		STATE FEE 6. State Oil & Gas Lease No.
District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505		NMNM-14922	
SUNDRY NOTI (DO NOT USE THIS FORM FOR PROPOS DIFFERENT RESERVOIR. USE *APPLICATION OF THE PROPOSALS.)		JUG BACK TO A	7. Lease Name or Unit Agreement Name VALENCIA CANYON UNIT
1. Type of Well: Oil Well	Gas Well X Other		8. Well Number 45 C
	ERGY INC.		9. OGRID Number 167067
3. Address of Operator 2700 FAI SURFACE FARMIN 4. Well Location	RMINGTON AVE., BLDG. K-1 IGTON, NM 87401		10. Pool name or Wildcat BLANCO MESA VERDE
Unit Letter O	1200 feet from the SOU	TH line and 1	925 feet from the <u>EAST</u> line
Section 34		Range 4W	NMPM County RIO ARRIBA
	11. Elevation (Show whether DI	R, RKB, RT, GR, etc.,	
Pit or Below-grade Tank Application X	7,197' GL or Closure [
Pit type DRILLING Depth to Groundw	ater >100'Distance from nearest fresh	water well_>4,000'Dist	ance from nearest surface water > 100'
Pit Liner Thickness: 12 mil	Below-Grade Tank: Volume	bbls; Co	nstruction Material
12. Check A	Appropriate Box to Indicate 1	Nature of Notice,	Report or Other Data
NOTICE OF IN PERFORM REMEDIAL WORK TEMPORARILY ABANDON PULL OR ALTER CASING	ITENTION TO: PLUG AND ABANDON CHANGE PLANS MULTIPLE COMPL	SUB REMEDIAL WOR COMMENCE DRI CASING/CEMEN	LLING OPNS. P AND A
OTHER: DRILLING PIT	[X]	OTHER:	П
13. Describe proposed or comp	pleted operations. (Clearly state all	pertinent details, and	d give pertinent dates, including estimated date tach wellbore diagram of proposed completion
•			
	\rightarrow		
grade tank has been/will be constructed of	above is true and complete to the colosed according to NMOCD guidelines	best of my knowledg	e and belief. I further certify that any pit or below- or an (attached) alternative OCD-approved plan .
SIGNATURE	TITLE_	CONSULTANT	
Type or print name BRIAN We For State Use Only	OOD E-mail	address: brian@pe	rmitswest.com Telephone No. 466-8120
APPROVED BY: Conditions of Approval (if any):	TITLE.	PUTT UIL & WAS ASS	PECTOR DISI DATE DATE

XTO ENERGY INC.
VALENCIA CANYON UNIT No. 45C
SECTION 34, T28N, R4W, N.M.P.M., RIO ARRIBA COUNTY, N. M.
GROUND ELEVATION: 7197', DATE: AUGUST 3, 2004

LAT. = 36°36'45" N. LONG. = 107°14'10" W NAD 27



RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW - 3' WIDE AND 1' ABOVE SHALLOW SIDE). BLOW PIT: OVERFLOW PIPE HALFWAY BETWEEN TOP AND BOTTOM AND TO EXTEND OVER PLASTIC LINER AND INTO BLOW PIT.



XTO Energy Inc.

Valencia Canyon Unit 45 C

Surface: 1200' FSL & 1925' FEL BHL: 1900' FSL & 2300' FWL

Sec. 34, T. 28 N., R. 4 W., Rio Arriba County, New Mexico

Drilling Program

1. ESTIMATED FORMATION TOPS

Formation Name	TV Depth	KB Depth	Elevation			
San Jose	000'	12'	+7,197'			
Ojo Alamo Sandstone	3,297'	3,309'	+3,900'			
Kirtland Shale	3,672'	3,684'	+3,525'			
Fruitland Coal	3,997'	4,009'	+3,200'			
Pictured Cliffs Ss	4,097'	4,109'	+3,100'			
Lewis Shale	4,397'	4,409'	+2,800'			
Cliff House Sandstone	5,922'	5,934'	+1,275'			
Menefee Shale	5,997'	6,009'	+1,200'			
Mesa Verde Sandstone	6,197'	6,209'	+1,000'			
Mancos Shale	6,597'	6,609'	+600'			
Total Depth*	7,000'	6,912'	+197'			
#Management D	*Managered Donth 7 100'					

^{*}Measured Depth 7,198'

2. NOTABLE ZONES

Gas or Oil Zones	Water Zones	<u>Coal Zones</u>
Fruitland	San Jose	Fruitland
Pictured Cliffs	Ojo Alamo	Menefee
Mesa Verde	Fruitland	

Water zones will be protected with casing, cement, and weighted mud. Fresh water found while drilling will be recorded. Oil or gas shows will be tested for commercial potential based on the geologist's recommendations.



Valencia Canyon Unit 45 C

Surface: 1200' FSL & 1925' FEL BHL: 1900' FSL & 2300' FWL

Sec. 34, T. 28 N., R. 4 W., Rio Arriba County, New Mexico

3. PRESSURE CONTROL

The drilling contract has not yet been awarded, thus the exact BOP model to be used is not yet known. (A typical 2,000 psi model is on PAGE 3.) An 8-5/8" x 11" 2,000 pound double ram BOP system with a choke manifold and mud cross will be tested to 200 psi and then to 1,000 psi. Upper and lower Kelly cocks with valve handle and subs to fit all drill string connections which are in use will be available on the rig floor.

Tests will be run when:

- 1) installed
- 2) anytime a pressure seal is broken (test only affected equipment)
- 3) at least every 30 days
- 4) blind & pipe rams will be activated each trip, but no more than daily

BOP systems will be consistent with API RP 53. Blowout preventers will be installed and tested before drilling surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated daily to ensure good mechanical working order and this inspection recorded on the daily drilling report. Preventers and casing will be pressure tested before drilling casing cement plugs. Maximum expected bottom hole pressure is $\approx 2,800$ psi. BOP and mud system will control pressure.

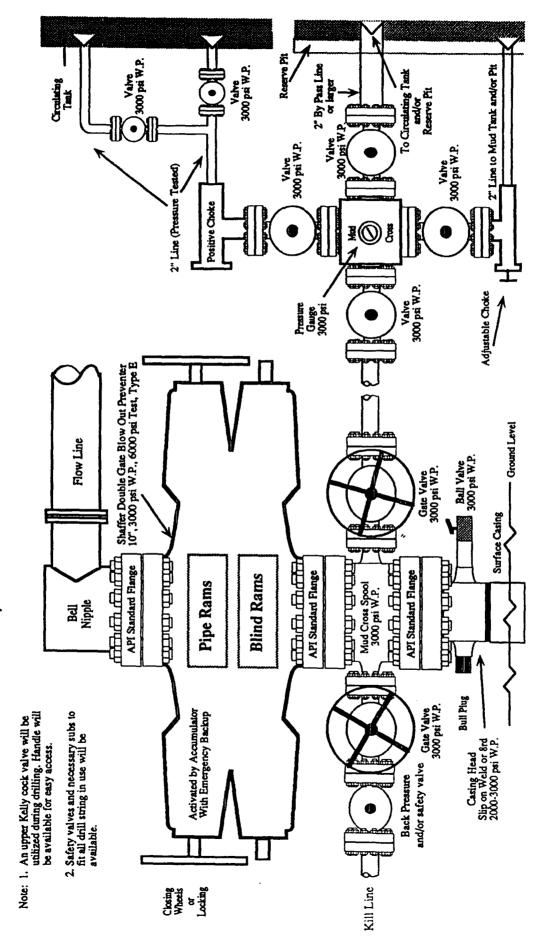
4. CASING & CEMENT

Hole Size	<u>O. D.</u>	Weight (lb/ft)	<u>Grade</u>	<u>Age</u>	Connections	Setting Depth
12-1/4"	9-5/8"	36	J-55	New	ST&C	320'
8-3/4"	7"	20	J-55	New	ST&C	3,800'
6-1/4"	4-1/2"	10.5	J-55	New	ST&C	7,198'

Surface casing will be cemented to surface with ≈ 256 cubic feet (≈ 200 sacks) Type III + 1/4 pound per sack cello-flake + 2% CaCl₂. Yield = 1.28 cubic feet per sack. Weight = 15.2 pounds per gallon. Excess: >100%.



2,000 PSI BOP SYSTEM



Note: This equipment is designed to meet requirements for a 2-M rating standard per 43 CFR part 3160 (amended). Proper operation and testing of equipment will be carried out per standard. 2,000 psi equipment can be substituted in the drawing to meet minimum requirements per standard.

XTO Energy Inc.

Valencia Canyon Unit 45 C

Surface: 1200' FSL & 1925' FEL BHL: 1900' FSL & 2300' FWL

Sec. 34, T. 28 N., R. 4 W., Rio Arriba County, New Mexico

Conventional centralizers will be set on the bottom two joints of the surface casing and every fourth joint to surface.

Intermediate casing will be cemented to the surface with >70% excess. Lead with ≈ 300 sacks (≈ 780 cubic feet) Type III + 8% gel + 1% CaCl₂. + 1/4 pound per sack cello flake mixed at 11.9 pounds per gallon and 2.60 cubic feet per sack. Tail will be ≈ 150 sacks (≈ 211 cubic feet) Type III + 1% CaCl₂. + 1/4 pound per sack cello flake mixed at 14.5 pounds per gallon and 1.41 cubic feet per sack. Intermediate casing will be set at least 50' into the Kirtland.

Production casing will be cemented to $\approx 3,300$ ' (i. e., ≈ 500 ' overlap) with $\approx 90\%$ excess. Lead with ≈ 165 sacks (≈ 500 cubic feet) Type III + 8% gel + 0.5% FL-52 + 0.2% CD-32 + 2% Pheno seal mixed at 11.4 pounds per gallon and 3.03 cubic feet per sack. Tail with ≈ 150 sacks (≈ 301 cubic feet) Premium Light HS + 2% KCl + 0.2% CD-32 + 0.5% FL-52 + 1/2 pound per sack cello flake + 2% Pheno seal mixed at 12.5 pounds per gallon and 2.01 cubic feet per sack. Conventional centralizers will be set on the bottom two joints, every second joint to $\approx 6,000$ ' and every fourth joint from $\approx 2,000$ ' to surface.

5. MUD PROGRAM

<u>RANGE</u>	MUD TYPE	WEIGHT	VISCOSITY	WATER LOSS	<u>ADDITIVES</u>
0' - 350'	Fresh-Spud	8.5-8.8	30	NC	Gel, lime
350' - 4,500'	Fresh Water	8.5-8.8	28	NC	Gel, lime sweeps
4,500' - TD	Fresh Water	8.5-8.8	35	10 cc	Gel, soda ash, LCM

6. CORES, TESTS, & LOGS

No cores or drill stem tests are planned. Induction log will be run from TD to 3,000'. Neutron density - GR log will be run from TD to base of surface casing.



VCU #45C Vertical Section, Feet

