

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

Form C-101
June 16, 2008

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit to appropriate District Office

☐ AMENDED REPORT

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

¹ Operator Name and Address XTO Energy Inc. 382 CR 3100 AZTEC NM 87410		² OGRID Number 5380
		³ API Number 30-045-35455
⁵ Property Code 303657	⁴ Property Name ROPCO 16	⁶ Well No. 1H
⁹ Proposed Pool 1 BASIN MANCOS		¹⁰ Proposed Pool 2 RCUD JAN 22 '13 OIL CONS. DIV.

7 Surface Location

DIST. 3

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	16	29N	14W		978	NORTH	1005	EAST	SAN JUAN

8 Proposed 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
G	17	29N	14W		2100	NORTH	1925	EAST	SAN JUAN

Additional Well Information

¹¹ Work Type Code D	¹² Well Type Code G	¹³ Cable/Rotary	¹⁴ Lease Type Code STATE	¹⁵ Ground Level Elevation 5217'
¹⁶ Multiple N	¹⁷ Proposed Depth 11,242'	¹⁸ Formation BASIN MANCOS	¹⁹ Contractor	²⁰ Spud Date MARCH 1, 2013

21 Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
12.25	9.625	36	500	268	
8.75	7	26	5100	293	
8.75	7	26	5100	200	
Liner 6.125	4.5	11.6	11242	0	

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.

Please see attached drilling program and horizontal plan.

**NOTIFY AZTEC OCD 24-HRS.
PRIOR TO CASING & CEMENT**

HOLD C104 FOR VSP TEST

Hold C104
for Directional Survey
and "As Drilled" plat

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature: *Malia Villers*

Printed name: MALIA VILLERS

Title: PERMITTING TECH.

OIL CONSERVATION DIVISION

Approved by: *Charles* 3-8-2013

Title: SUPERVISOR DISTRICT #3

Approval Date: MAR 08 2013

Expiration Date: MAR 08 2015

MAR 08 2013 ea

Ar

E-mail Address: malia_villers@xtoenergy.com

Date: January 21, 2013

Phone: 505-333-3698

Conditions of Approval Attached ☐

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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 August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-35455		² Pool Code 97232		³ Pool Name Basin maneros	
⁴ Property Code 303657		⁵ Property Name ROPCO 16			⁶ Well Number 1H
⁷ OGRID No. 5380		⁸ Operator Name XTO ENERGY INC.			⁹ Elevation 5,217

¹⁰ Surface Location

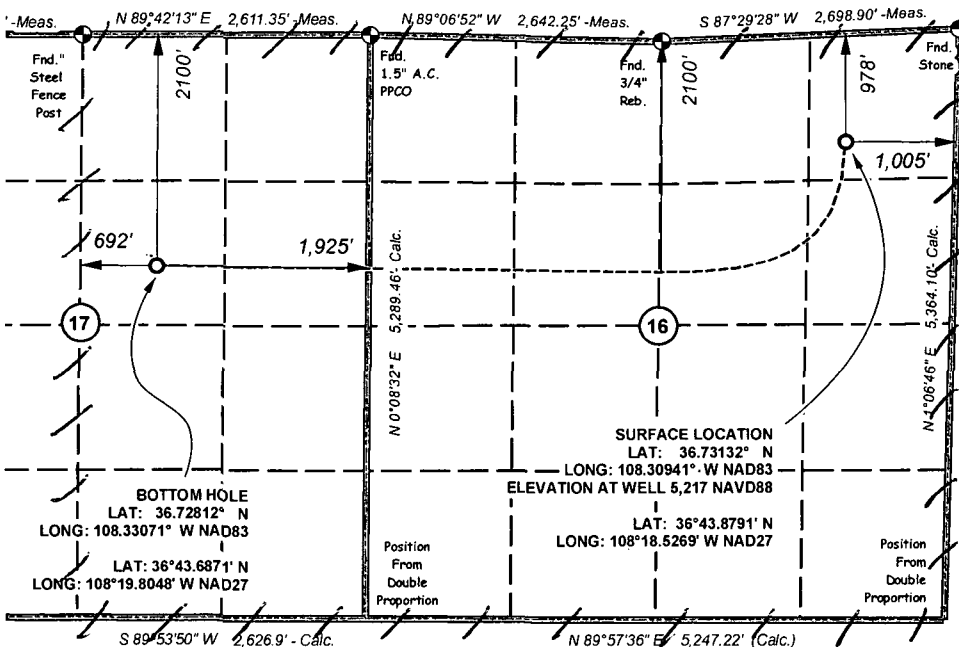
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	16	29 N	14 W		978	NORTH	1005	EAST	SAN JUAN

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
G	17	29 N	14 W		2100	NORTH	1925	EAST	SAN JUAN

¹² Dedicated Acres 9.60	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
---------------------------------------	-------------------------------	----------------------------------	-------------------------

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.



¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature: Malia Villers Date: 1.21.13

Printed Name: Malia Villers

E-mail Address: malia-villers@xtoenergy.com

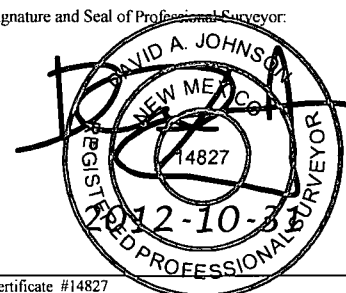
¹⁸ SURVEYOR CERTIFICATION

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.

October 9, 2012

Date of Survey

Signature and Seal of Professional Surveyor:



Certificate #14827

XTO ENERGY INC.

Ropco 16 #1H

APD Data

January 21, 2013

Location: 978' FNL x 1005' FEL Sec 16, T29N, R14W County: San Juan

State: New Mexico

Bottomhole Location: 2100' FNL x 1925' FEL Sec 17, T29N, R14W

GREATEST PROJECTED TVD: 4758'

APPROX GR ELEV: 5217'

GREATEST PROJECTED MD: 11242'

Est. KB ELEV: 5229' (12' AGL)

OBJECTIVE: Gallup Horizontal

1. MUD PROGRAM:

INTERVAL	0' to 500'	500' to 5100'	5100' to TD
HOLE SIZE	12.25"	8.75"	6.125"
MUD TYPE	FW/Spud Mud	FW/Polymer/LSND	Oil Based Mud/Invert
WEIGHT	8.6-9.0	8.4-9.2	11-13.5
VISCOSITY	28-32	28-36	28-36
WATER LOSS	NC	NC	NC

Remarks: Use fibrous materials as needed to control seepage and lost circulation. Pump high viscosity sweeps as needed for hole cleaning.

2. CASING PROGRAM:

Surface Casing: 9.625" casing to be set at $\pm 500'$ in a 12-1/4" hole filled with 9.20 ppg mud

Interval	Length	Wt	Gr	Cplg	Coll Rating (psi)	Burst Rating (psi)	Jt Str (M-lbs)	ID (in)	Drift (in)	SF Coll ¹	SF Burst ²	SF Ten ³
0'-500'	500'	36.0#	J-55	ST&C	2020	3520	394	8.921	8.765	8.44	14.7	21.9

Intermediate Casing: 7" casing to be set at $\pm 5100'$ MD, 4758' TVD in 8.75" hole filled with 9.20 ppg mud.

Interval	Length	Wt	Gr	Cplg	Coll Rating (psi)	Burst Rating (psi)	Jt Str (M-lbs)	ID (in)	Drift (in)	SF Coll ¹	SF Burst ²	SF Ten ³
0'-5100'	5100'	26 #	J-55	ST&C	4320	4980	334	6.276	6.151	1.90	2.19	2.52

Production Casing: 4.5" casing to be set at $\pm 11242'$ MD, 4758' TVD in 6.125" hole filled with 13.5 ppg mud. (Mud may be weighted up to 13.5 ppg for hole stability reasons. Anticipated Reservoir pressure ~ 7.5 ppg)

Interval	Length	Wt	Gr	Cplg	Coll Rating (psi)	Burst Rating (psi)	Jt Str (M-lbs)	ID (in)	Drift (in)	SF Coll ¹	SF Burst ²	SF Ten ³
5040'-11242'	6202'	11.6#	N-80	LT&C	6350	7780	223	4.00	3.875	1.91	2.33	3.10

¹Collapse SF is based on evacuated casing and hydrostatic at TVD.

²Burst SF is based on evacuated annulus and hydrostatic at TVD.

³Tensile SF is based on hanging air weight of casing in a vertical hole at measured depth.

3. WELLHEAD:

- A. Casing Head: C-22 profile (or equivalent), 9-5/8 slip on weld on x 11", 5000# with 11" x 7-1/16" 5000# C-22 casing hanger.
- B. Tubing Head: TCM (or equivalent), 11" 5000# x 7-1/16" 5000#, TC-1A 7-1/16" x 2-3/8 tubing Hanger

4. CEMENT PROGRAM (Slurry design may change slightly, but the plan is to circulate cement to surface on both casing strings):

- A. Surface: 9.625", 36.0#, J-55, ST&C casing to be set at $\pm 500'$ in 12-1/4" hole.

± 268 sx of Type V cement (or equivalent) typically containing accelerator and LCM, mixed at 15.8 ppg, 1.17 ft³/sk, & 5.01 gal wtr/sk.

Total slurry volume is 313 ft³, 100% excess of calculated annular volume to 500'.

- B. Intermediate Casing: 7", 26#/ft, J-55, ST&C casing to be set at $\pm 5100'$ MD, 4758' TVD in 8.75" hole.

LEAD 1:

± 293 sx of Type V (or equivalent) typically containing accelerator, LCM, dispersant, and fluid loss additives at 12.3 ppg, 2.36 ft³/sk, & 12.95 gal wtr/sk.

TAIL 1:

± 200 sx of Type V or Class G cement typically containing accelerator, LCM, dispersant, and fluid loss additives at 13.5 ppg, 1.81 ft³/sk, & 8.85 gal wtr/sk.

Total estimated slurry volume for the 7" production casing is 1051 ft³.

- C. Production Liner: 4.5", 11.6#/ft, N-80, LT&C casing is to be set at 11242' MD, 4758' TVD in 6.125" hole.

The production liner will be set using an uncemented liner hanger. The liner may be tied back to surface during the completion of the well.

Note: The slurry design may change based upon actual conditions. Final cement volumes will be determined from the caliper logs (if available) plus 40%. It will be attempted to circulate cement to the surface.

5. LOGGING PROGRAM:

- A. Mud Logger: A geologic consultant or unmanned mud logging unit will begin logging the well once the surface shoe is drilled out and remain on the well to TD.
- B. Open Hole Logs as follows: Gamma Ray from Surface shoe to TD.

6. FORMATION TOPS:

See attached Directional Program.

**** Maximum anticipated BHP should be <2,000 psig (<0.38psi/ft) ****

7. **COMPANY PERSONNEL:**

Name	Title	Office Phone	Cellular Phone
Ross Lubbers	Drilling Manager	303-397-3721	405-659-8563
Justin Niederhofer	Drilling Engineer	303-397-3719	505-320-0158
Bobby Jackson	Drilling Superintendent	303-397-3720	505-486-4706
Charles Musekamp	Project Geologist	817-885-2800	--

JDN

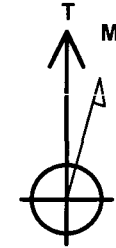
1/21/13



Well Name: Ropco 16-1H

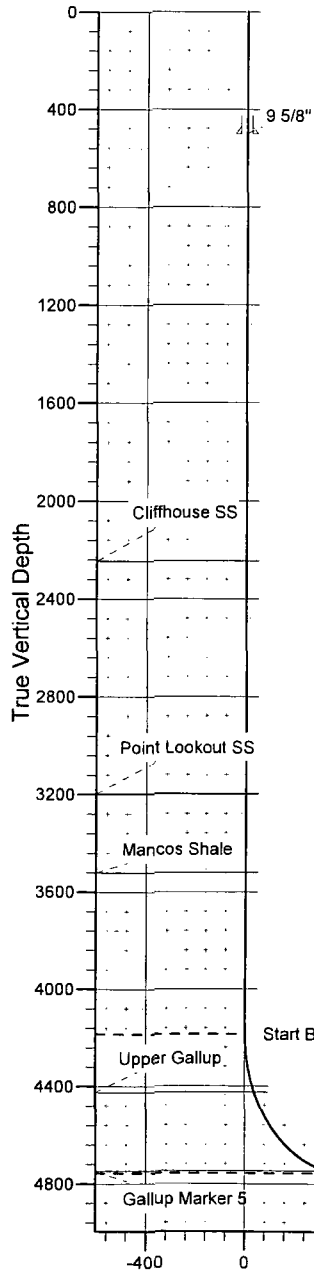
San Juan Division
Drilling Department

Calculation Method: Minimum Curvature
Geodetic Datum: North American Datum 1983
Lat: 36° 43' 52.75 N
Long: 108° 18' 33.88 W



Azimuths to True North
Magnetic North: 10.29°

Magnetic Field
Strength: 50838.4snT
Dip Angle: 63.40°
Date: 12/31/2009
Model: IGRF200510

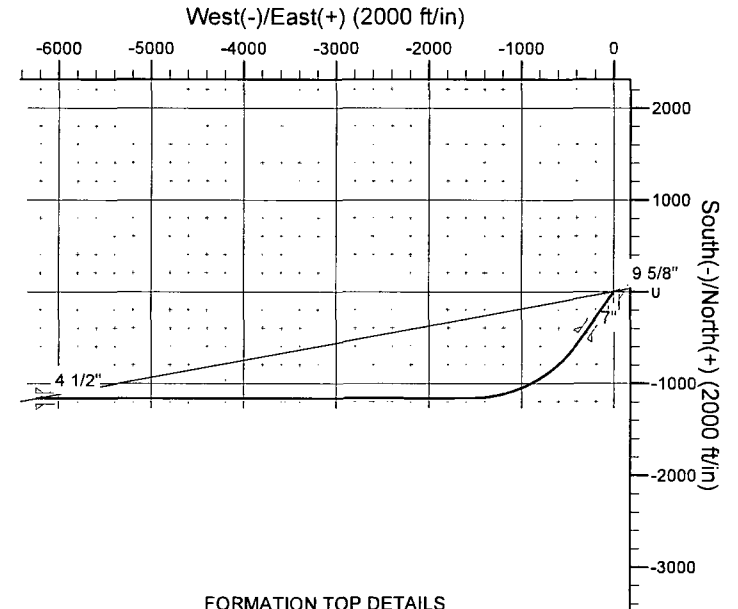
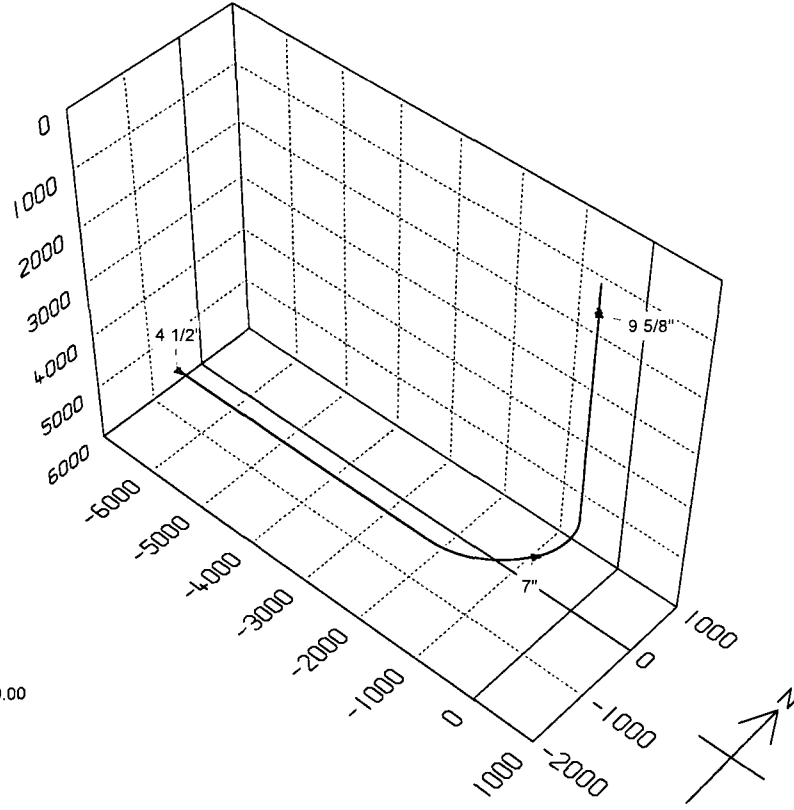


CASING DETAILS

TVD	MD	Name	Size
500.00	500.00	9 5/8"	9.625
4758.00	5100.00	7"	7.000
4758.00	1242.00	4 1/2"	4.500

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	4185.00	0.00	0.00	4185.00	0.00	0.00	0.00	0.00	0.00	
3	5085.07	90.00	215.00	4758.00	-469.37	-328.66	10.00	215.00	409.15	
4	5185.07	90.00	215.00	4758.00	-551.29	-386.02	0.00	0.00	480.56	
5	6559.39	90.00	269.97	4758.00	-1162.10	-1558.69	4.00	90.00	1745.35	Proposed BHL - Ropco 16-1H
6	11242.71	90.00	269.97	4758.00	-1164.31	-6242.01	0.00	0.00	6349.66	Proposed BHL - Ropco 16-1H



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
2245.00	2245.00	Cliffhouse SS
3197.00	3197.00	Point Lookout SS
3520.00	3520.00	Mancos Shale
4425.00	4432.64	Upper Gallup
4748.00	4977.86	Gallup Marker 5

Vertical Section at 259.43°

4 1/2"

TD at 11242.71

XTO Energy Inc.
Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well Ropco 16-1H
Company:	XTO Energy	TVD Reference:	Rig KB @ 5237.00ft (Unknown Rig)
Project:	San Juan Basin (NAD 83)	MD Reference:	Rig KB @ 5237.00ft (Unknown Rig)
Site:	Ropco 16-1H	North Reference:	True
Well:	Ropco 16-1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Ropco 16-1H		
Design:	Permitted wellbore -- Ropco 16-1H		

Project	San Juan Basin (NAD 83), San Juan Co., NM,		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Western Zone		

Site	Ropco 16-1H, T29N, R14W		
Site Position:		Northing:	2,085,863.71 ft
From:	Lat/Long	Easting:	2,583,585.34 ft
Position Uncertainty:	0.00 ft	Slot Radius:	in
		Latitude:	36° 43' 52.75 N
		Longitude:	108° 18' 33.88 W
		Grid Convergence:	-0.28 °

Well	Ropco 16-1H, Horizontal Mancos		
Well Position	+N/-S	0.00 ft	Northing: 2,085,863.71 ft
	+E/-W	0.00 ft	Easting: 2,583,585.34 ft
Position Uncertainty	0.00 ft	Wellhead Elevation:	5,217.00 ft
		Latitude:	36° 43' 52.75 N
		Longitude:	108° 18' 33.88 W
		Ground Level:	5,217.00 ft

Wellbore	Ropco 16-1H				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	10.29	63.40	50,838

Design	Permitted wellbore -- Ropco 16-1H			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	259.43

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,185.00	0.00	0.00	4,185.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,085.07	90.00	215.00	4,758.00	-469.37	-328.66	10.00	10.00	0.00	215.00	
5,185.07	90.00	215.00	4,758.00	-551.29	-386.02	0.00	0.00	0.00	0.00	
6,559.39	90.00	269.97	4,758.00	-1,162.10	-1,558.69	4.00	0.00	4.00	90.00	Proposed BHL -- Rop
11,242.71	90.00	269.97	4,758.00	-1,164.31	-6,242.01	0.00	0.00	0.00	0.00	Proposed BHL -- Rop

XTO Energy Inc.

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well Ropco 16-1H
Company:	XTO Energy	TVD Reference:	Rig KB @ 5237.00ft (Unknown Rig)
Project:	San Juan Basin (NAD 83)	MD Reference:	Rig KB @ 5237.00ft (Unknown Rig)
Site:	Ropco 16-1H	North Reference:	True
Well:	Ropco 16-1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Ropco 16-1H		
Design:	Permitted wellbore -- Ropco 16-1H		

Planned Survey

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	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8"									
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,245.00	0.00	0.00	2,245.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliffhouse SS									
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,197.00	0.00	0.00	3,197.00	0.00	0.00	0.00	0.00	0.00	0.00
Point Lookout SS									
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,520.00	0.00	0.00	3,520.00	0.00	0.00	0.00	0.00	0.00	0.00
Mancos Shale									
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,185.00	0.00	0.00	4,185.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	1.50	215.00	4,200.00	-0.16	-0.11	0.14	10.00	10.00	0.00
4,250.00	6.50	215.00	4,249.86	-3.02	-2.11	2.63	10.00	10.00	0.00
4,300.00	11.50	215.00	4,299.23	-9.42	-6.60	8.21	10.00	10.00	0.00
4,350.00	16.50	215.00	4,347.73	-19.33	-13.53	16.85	10.00	10.00	0.00

XTO Energy Inc.
Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well Ropco 16-1H
Company:	XTO Energy	TVD Reference:	Rig KB @ 5237.00ft (Unknown Rig)
Project:	San Juan Basin (NAD 83)	MD Reference:	Rig KB @ 5237.00ft (Unknown Rig)
Site:	Ropco 16-1H	North Reference:	True
Well:	Ropco 16-1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Ropco 16-1H		
Design:	Permitted wellbore -- Ropco 16-1H		

Planned Survey

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)
4,400.00	21.50	215.00	4,394.99	-32.66	-22.87	28.47	10.00	10.00	0.00
4,432.64	24.76	215.00	4,425.00	-43.16	-30.22	37.62	10.00	10.00	0.00
Upper Gallup									
4,450.00	26.50	215.00	4,440.65	-49.31	-34.53	42.98	10.00	10.00	0.00
4,500.00	31.50	215.00	4,484.37	-69.16	-48.42	60.28	10.00	10.00	0.00
4,550.00	36.50	215.00	4,525.81	-92.05	-64.46	80.24	10.00	10.00	0.00
4,600.00	41.50	215.00	4,564.66	-117.82	-82.50	102.70	10.00	10.00	0.00
4,650.00	46.50	215.00	4,600.62	-146.26	-102.41	127.49	10.00	10.00	0.00
4,700.00	51.50	215.00	4,633.41	-177.16	-124.05	154.43	10.00	10.00	0.00
4,750.00	56.50	215.00	4,662.79	-210.28	-147.24	183.30	10.00	10.00	0.00
4,800.00	61.50	215.00	4,688.54	-245.38	-171.81	213.89	10.00	10.00	0.00
4,850.00	66.50	215.00	4,710.46	-282.17	-197.58	245.97	10.00	10.00	0.00
4,900.00	71.49	215.00	4,728.37	-320.40	-224.35	279.29	10.00	10.00	0.00
4,950.00	76.49	215.00	4,742.15	-359.76	-251.90	313.60	10.00	10.00	0.00
4,977.86	79.28	215.00	4,748.00	-382.07	-267.53	333.05	10.00	10.00	0.00
Gallup Marker 5									
5,000.00	81.49	215.00	4,751.70	-399.95	-280.05	348.63	10.00	10.00	0.00
5,050.00	86.49	215.00	4,756.93	-440.67	-308.56	384.13	10.00	10.00	0.00
5,085.07	90.00	215.00	4,758.00	-469.37	-328.66	409.15	10.00	10.00	0.00
5,100.00	90.00	215.00	4,758.00	-481.61	-337.22	419.82	0.00	0.00	0.00
7"									
5,185.07	90.00	215.00	4,758.00	-551.29	-386.02	480.56	0.00	0.00	0.00
5,200.00	90.00	215.60	4,758.00	-563.48	-394.65	491.28	4.00	0.00	4.00
5,300.00	90.00	219.60	4,758.00	-642.69	-455.64	565.77	4.00	0.00	4.00
5,400.00	90.00	223.60	4,758.00	-717.46	-522.02	644.73	4.00	0.00	4.00
5,500.00	90.00	227.60	4,758.00	-787.42	-593.45	727.77	4.00	0.00	4.00
5,600.00	90.00	231.60	4,758.00	-852.22	-669.59	814.50	4.00	0.00	4.00
5,700.00	90.00	235.60	4,758.00	-911.55	-750.06	904.48	4.00	0.00	4.00
5,800.00	90.00	239.60	4,758.00	-965.13	-834.47	997.29	4.00	0.00	4.00
5,900.00	90.00	243.60	4,758.00	-1,012.68	-922.41	1,092.46	4.00	0.00	4.00
6,000.00	90.00	247.60	4,758.00	-1,053.99	-1,013.46	1,189.54	4.00	0.00	4.00
6,100.00	90.00	251.60	4,758.00	-1,088.85	-1,107.17	1,288.05	4.00	0.00	4.00
6,200.00	90.00	255.60	4,758.00	-1,117.08	-1,203.08	1,387.51	4.00	0.00	4.00
6,300.00	90.00	259.60	4,758.00	-1,138.55	-1,300.73	1,487.44	4.00	0.00	4.00
6,400.00	90.00	263.60	4,758.00	-1,153.16	-1,399.63	1,587.35	4.00	0.00	4.00
6,500.00	90.00	267.60	4,758.00	-1,160.84	-1,499.32	1,686.75	4.00	0.00	4.00
6,559.39	90.00	269.97	4,758.00	-1,162.10	-1,558.69	1,745.35	4.00	0.00	4.00
6,600.00	90.00	269.97	4,758.00	-1,162.12	-1,599.30	1,785.27	0.00	0.00	0.00
6,700.00	90.00	269.97	4,758.00	-1,162.16	-1,699.30	1,883.59	0.00	0.00	0.00
6,800.00	90.00	269.97	4,758.00	-1,162.21	-1,799.30	1,981.90	0.00	0.00	0.00
6,900.00	90.00	269.97	4,758.00	-1,162.26	-1,899.30	2,080.21	0.00	0.00	0.00
7,000.00	90.00	269.97	4,758.00	-1,162.30	-1,999.30	2,178.53	0.00	0.00	0.00
7,100.00	90.00	269.97	4,758.00	-1,162.35	-2,099.30	2,276.84	0.00	0.00	0.00
7,200.00	90.00	269.97	4,758.00	-1,162.40	-2,199.30	2,375.15	0.00	0.00	0.00
7,300.00	90.00	269.97	4,758.00	-1,162.45	-2,299.30	2,473.47	0.00	0.00	0.00
7,400.00	90.00	269.97	4,758.00	-1,162.49	-2,399.30	2,571.78	0.00	0.00	0.00
7,500.00	90.00	269.97	4,758.00	-1,162.54	-2,499.30	2,670.09	0.00	0.00	0.00
7,600.00	90.00	269.97	4,758.00	-1,162.59	-2,599.30	2,768.41	0.00	0.00	0.00
7,700.00	90.00	269.97	4,758.00	-1,162.63	-2,699.30	2,866.72	0.00	0.00	0.00
7,800.00	90.00	269.97	4,758.00	-1,162.68	-2,799.30	2,965.03	0.00	0.00	0.00
7,900.00	90.00	269.97	4,758.00	-1,162.73	-2,899.30	3,063.35	0.00	0.00	0.00
8,000.00	90.00	269.97	4,758.00	-1,162.78	-2,999.30	3,161.66	0.00	0.00	0.00
8,100.00	90.00	269.97	4,758.00	-1,162.82	-3,099.30	3,259.97	0.00	0.00	0.00

XTO Energy Inc.
Planning Report

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Project:	San Juan Basin (NAD 83)	MD Reference:	Rig KB @ 5237.00ft (Unknown Rig)
Site:	Ropco 16-1H	North Reference:	True
Well:	Ropco 16-1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Ropco 16-1H		
Design:	Permitted wellbore -- Ropco 16-1H		

Planned Survey

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)
8,200.00	90.00	269.97	4,758.00	-1,162.87	-3,199.30	3,358.28	0.00	0.00	0.00
8,300.00	90.00	269.97	4,758.00	-1,162.92	-3,299.30	3,456.60	0.00	0.00	0.00
8,400.00	90.00	269.97	4,758.00	-1,162.96	-3,399.30	3,554.91	0.00	0.00	0.00
8,500.00	90.00	269.97	4,758.00	-1,163.01	-3,499.30	3,653.22	0.00	0.00	0.00
8,600.00	90.00	269.97	4,758.00	-1,163.06	-3,599.30	3,751.54	0.00	0.00	0.00
8,700.00	90.00	269.97	4,758.00	-1,163.11	-3,699.30	3,849.85	0.00	0.00	0.00
8,800.00	90.00	269.97	4,758.00	-1,163.15	-3,799.30	3,948.16	0.00	0.00	0.00
8,900.00	90.00	269.97	4,758.00	-1,163.20	-3,899.30	4,046.48	0.00	0.00	0.00
9,000.00	90.00	269.97	4,758.00	-1,163.25	-3,999.30	4,144.79	0.00	0.00	0.00
9,100.00	90.00	269.97	4,758.00	-1,163.29	-4,099.30	4,243.10	0.00	0.00	0.00
9,200.00	90.00	269.97	4,758.00	-1,163.34	-4,199.30	4,341.42	0.00	0.00	0.00
9,300.00	90.00	269.97	4,758.00	-1,163.39	-4,299.30	4,439.73	0.00	0.00	0.00
9,400.00	90.00	269.97	4,758.00	-1,163.44	-4,399.30	4,538.04	0.00	0.00	0.00
9,500.00	90.00	269.97	4,758.00	-1,163.48	-4,499.30	4,636.36	0.00	0.00	0.00
9,600.00	90.00	269.97	4,758.00	-1,163.53	-4,599.30	4,734.67	0.00	0.00	0.00
9,700.00	90.00	269.97	4,758.00	-1,163.58	-4,699.30	4,832.98	0.00	0.00	0.00
9,800.00	90.00	269.97	4,758.00	-1,163.63	-4,799.30	4,931.29	0.00	0.00	0.00
9,900.00	90.00	269.97	4,758.00	-1,163.67	-4,899.30	5,029.61	0.00	0.00	0.00
10,000.00	90.00	269.97	4,758.00	-1,163.72	-4,999.30	5,127.92	0.00	0.00	0.00
10,100.00	90.00	269.97	4,758.00	-1,163.77	-5,099.30	5,226.23	0.00	0.00	0.00
10,200.00	90.00	269.97	4,758.00	-1,163.81	-5,199.30	5,324.55	0.00	0.00	0.00
10,300.00	90.00	269.97	4,758.00	-1,163.86	-5,299.30	5,422.86	0.00	0.00	0.00
10,400.00	90.00	269.97	4,758.00	-1,163.91	-5,399.30	5,521.17	0.00	0.00	0.00
10,500.00	90.00	269.97	4,758.00	-1,163.96	-5,499.30	5,619.49	0.00	0.00	0.00
10,600.00	90.00	269.97	4,758.00	-1,164.00	-5,599.30	5,717.80	0.00	0.00	0.00
10,700.00	90.00	269.97	4,758.00	-1,164.05	-5,699.30	5,816.11	0.00	0.00	0.00
10,800.00	90.00	269.97	4,758.00	-1,164.10	-5,799.30	5,914.43	0.00	0.00	0.00
10,900.00	90.00	269.97	4,758.00	-1,164.14	-5,899.30	6,012.74	0.00	0.00	0.00
11,000.00	90.00	269.97	4,758.00	-1,164.19	-5,999.30	6,111.05	0.00	0.00	0.00
11,100.00	90.00	269.97	4,758.00	-1,164.24	-6,099.30	6,209.37	0.00	0.00	0.00
11,200.00	90.00	269.97	4,758.00	-1,164.29	-6,199.30	6,307.68	0.00	0.00	0.00
11,242.00	90.00	269.97	4,758.00	-1,164.31	-6,241.30	6,348.97	0.00	0.00	0.00
4 1/2"									
11,242.71	90.00	269.97	4,758.00	-1,164.31	-6,242.01	6,349.66	0.00	0.00	0.00

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
Proposed BHL -- Ropco	0.00	0.00	4,758.00	-1,164.31	-6,242.01	2,084,730.45	2,577,337.64	36° 43' 41.23 N	108° 19' 50.56 W
- plan hits target									
- Point									

XTO Energy Inc.**Planning Report**

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Company:	XTO Energy	TVD Reference:	Rig KB @ 5237.00ft (Unknown Rig)
Project:	San Juan Basin (NAD 83)	MD Reference:	Rig KB @ 5237.00ft (Unknown Rig)
Site:	Ropco 16-1H	North Reference:	True
Well:	Ropco 16-1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Ropco 16-1H		
Design:	Permitted wellbore -- Ropco 16-1H		

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
500.00	500.00	9 5/8"	9.625	12.250
5,100.00	4,758.00	7"	7.000	8.750
11,242.00	4,758.00	4 1/2"	4.500	6.125

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
2,245.00	2,245.00	Cliffhouse SS		0.00	
3,197.00	3,197.00	Point Lookout SS		0.00	
3,520.00	3,520.00	Mancos Shale		0.00	
4,432.64	4,425.00	Upper Gallup		0.00	
4,977.86	4,748.00	Gallup Marker 5		0.00	



December 18, 2012

Certified Mail

ConocoPhillips
San Juan Business Unit
Land Department
P.O. Box 4289
Farmington, NM 87499-4289

Attn: Terry Simcoe

RE: **Horizontal Project Area**
Ropco 16-1H
All of Sec. 16 & E/2 of Sec. 17, T29N, R14W
San Juan County, New Mexico

Dear Working Interest Owner:

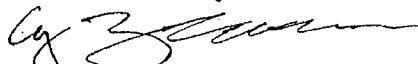
XTO Energy Inc. would like to form a Project area as defined in **Section 19.15.16.7 L** of NMOCD Order Number R-13499 for purposes of drilling a horizontal well targeting the Mancos formation. The Project Area will consist of **all of Sec. 16 & E/2 of Sec. 17, T29N, R14W** containing 960 acres more or less.

Pursuant to Section 19.15.16.15 A of NMOCD Order Number R 13499, XTO is required to obtain the consent of one additional working interest owner before filing for a Permit to Drill (APD).

Our records indicate you are a working interest owner in the NE/4NE/4 of Section 16. Please indicate your approval or disapproval of the proposed Project Area below.

Any questions may be directed to the undersigned at (817) 885-1130.

Sincerely,
XTO ENERGY INC.


Cy Zimmerman
Landman

Enclosures

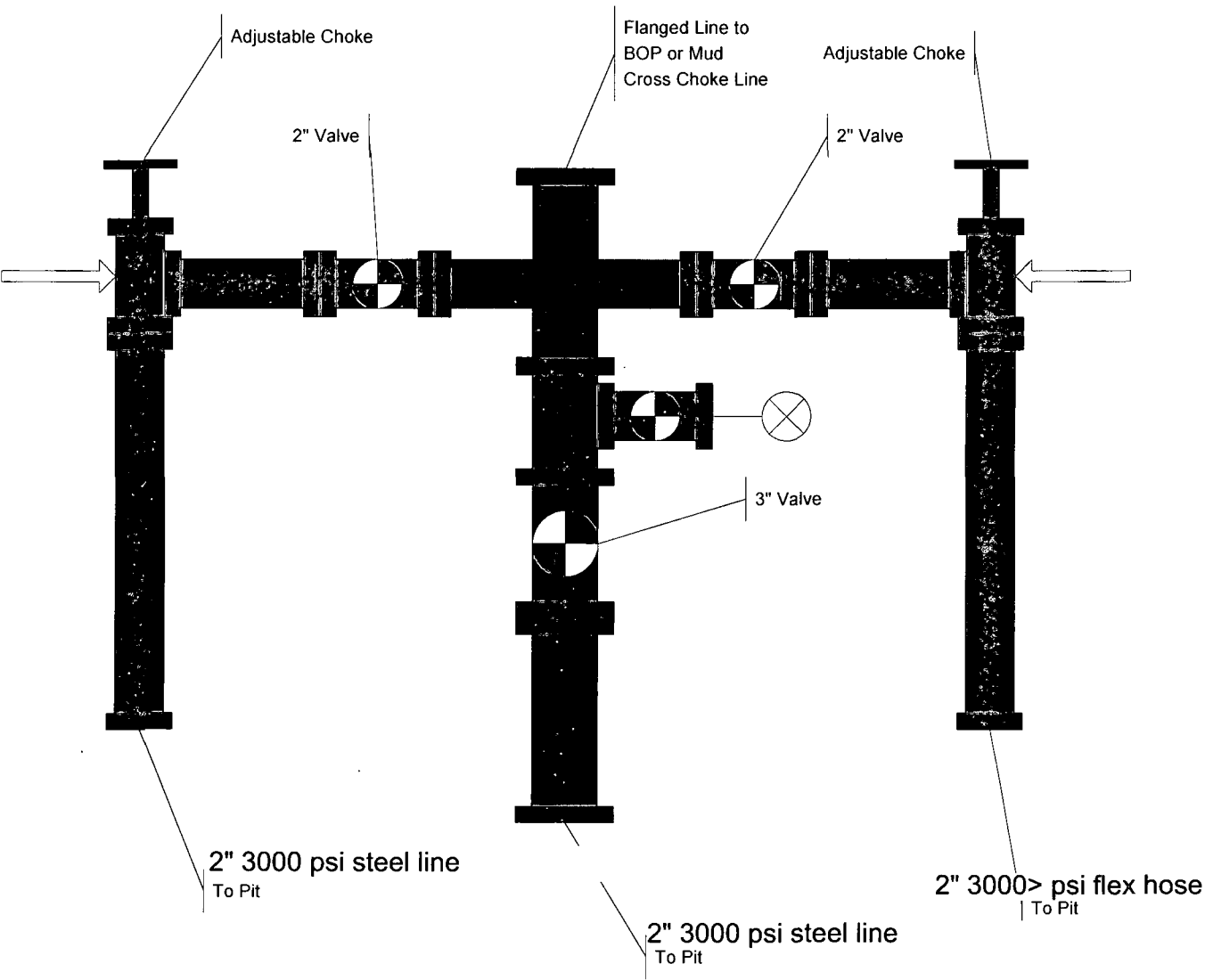
The undersigned hereby agrees this 19th day of December, 2012, to approve the proposed Project Area.

Name: Terry Simcoe, CPL

Title: Staff Landman

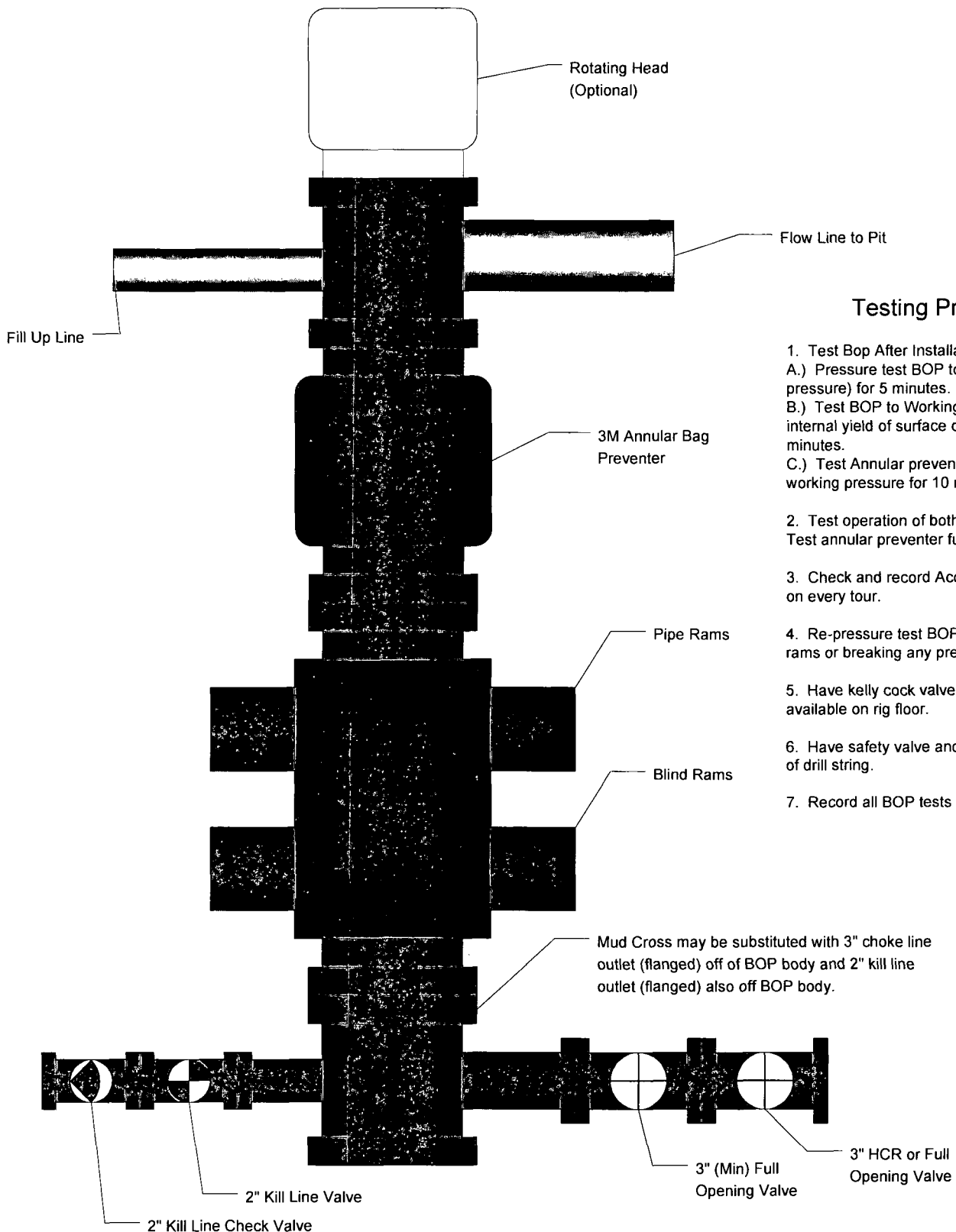
Company: ConocoPhillips Co.
and Burlington Resources Oil & Gas LP

XTO Energy		
3M Choke Manifold		



XTO Energy

3M BOP Stack



Testing Procedure

1. Test Bop After Installation:
 - A.) Pressure test BOP to 200-300 psig (low pressure) for 5 minutes.
 - B.) Test BOP to Working pressure or 70% internal yield of surface casing for 10 minutes.
 - C.) Test Annular preventer to 50% of working pressure for 10 minutes.
2. Test operation of both rams on each trip. Test annular preventer function weekly.
3. Check and record Accumulator pressure on every tour.
4. Re-pressure test BOP after changing rams or breaking any pressure tested seal.
5. Have kelly cock valve with handle available on rig floor.
6. Have safety valve and subs to fit all sizes of drill string.
7. Record all BOP tests in IADC book.