Form 3160-3 (August 2007)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

RECEIVED

FORM APPROVED OMB NO. 1004-0137 Expires July 31, 2010

NOV 14 2012

APPLICATION FOR PERMIT TO DRILL	5. Lease Serial No.	
la. Type of Work DRILL DRILL	Farmington Field O	MSF-078977 6. If Indian, Allotee or Tribe Name
la. Type of Work DRILL REENT	ER Bureau of Land Manag	Jemel.
1b. Type of Well Silvell Gas Well Other	Single Zone Multiple Zone	N/A 7. Unit or CA Agreement Name and No.
on wen x das wen other	Single Zone Multiple Zone	Pending
2. Name of Operator		8. Lease Name and Well No.
XTO Energy Inc.		SE Mounds #3
3a. Address	3b. Phone No. (include area co	de) 9. API Well No.
382 Road 3100, Aztec, NM 87410	505-333-3100	30-045-354-37
4. Location of Well (Report location clearly and in accordance with any S At surface 1701, 1707, 6, 6101, 1707, 6, 700, 170, 170, 170, 170, 170, 170, 170	•	10. Field and Pool, or Exploratory Basin Fruitland Coal
At surface 170' FSL & 610' FEL Sec. 6, T29N, R13	W	11. Sec., T., R., M., or Blk. and Survey or Area
At proposed prod. zone 700' FSL & 700' FEL Sec.	6, T29N, R13W	(P) Sec. 6, T29N, R13W
14. Distance in miles and direction from nearest town or post office*		12. County or Parish 13. State
Approximately 3.34 miles west of the 1	Farmington, NM Post Office	San Juan NM
15. Distance from proposed*	16.No. of Acres in lease	17. Spacing Unit dedicated to this well
location to nearest	1	RCVD MAY 6 '13
property or lease line, ft. 170' (Also to nearest drg. unit line, if any)	2546.11	S/2: 248.9 acres
18. Distance from proposed location* to nearest well, drilling, completed,	19. Proposed Depth	20.BLM/BIA Bond No. on file OIL CONS. DIV.
applied for, on this lease, ft. 2524'	1200'	UIB000138 DIST. 3
21. Elevations (Show whether DF, KDB, RT, GL, etc.	22. Approximate date work will star	t* 23. Estimated duration
5278' Ground Elevation	01/15/2013	2 Weeks
This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and opposition of the following, completed in accordance with the requirements of Onshore O	24. Attachments	OF 30 10 OF SATIONS AUTHOR TO ARE I to this form: "GENERAL REQUIREMENTS".
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System Lands, SUPO must be filed with the appropriate Forest Service Office). 	Item 20 above). 5. Operator certification.	ons unless covered by an existing bond on file (see formation and/or plans as may be required by the
25. Signature	Name (Printed/Typed)	Date Da
Cheryleve Charley	Cherylene Charley	10-15-12 E 5
Sr. Pennitting Tech		10.
	Name (Printed/Typed)	Date
Mancie we (Signature)	ivanic (17 miew 1 ypeu)	5/2/13
Approved by (Signature) Mance Los Title AFM	Office FFO	
Application approval does not warrant or certify that the applicant holds le conduct operations thereon. Conditions of approval, if any, are attached.	gal or equitable title to those rights in t	the subject lease which would entitle the applicant to
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a cr States any false, fictitious or fraudulent statements or representations as to an	ime for any person knowlingly and willfu ny matter within its jurisdiction.	lly to make to any department or agency of the United
(Continued on page 2) Hold C104		*(Instructions on page 2)
for Directional Survey and "As Drilled" plat		A COMPLETE C-144 MUST BE SUBMITTED TO AND

BLM'S APPROVAL OR ACCEPTANCE OF THIS ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS



A COMPLETE C-144 MUST BE SUBMITTED TO AND APPROVED BY THE NMOCD FOR: A PIT, CLOSED LOOP SYSTEM, BELOW GRADE TANK, OR PROPOSED ALTERNATIVE METHOD, PURSUANT TO NMOCD PART 19.15.17, PRIOR TO THE USE OR CONSTRUCTION OF THE ABOVE APPLICATIONS.

PRIOR TO CASING & CEMENT

District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (375) 393-6161 Fax: (575) 393-0720 District II 811 S. Finat St., Artesia, NM 88210 Phone: (375) 748-1283 Fax: (575) 748-9720 District III 1000 Rio Brazos Road, Aztoc, 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

-6170

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

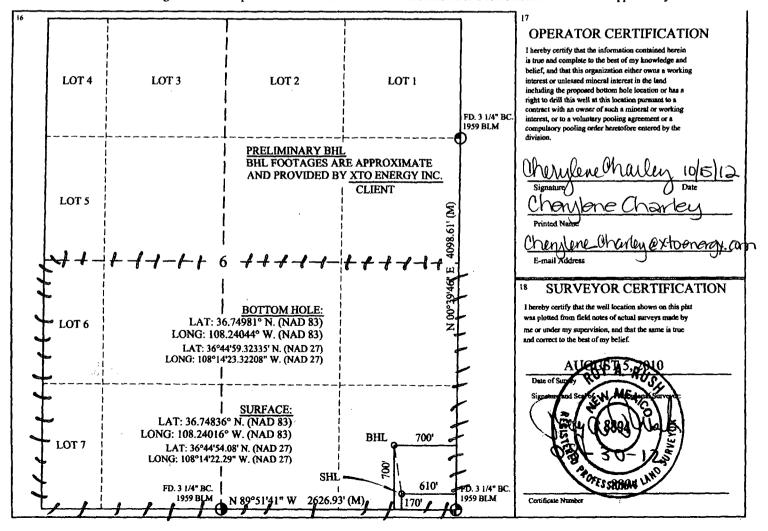
Form C-102
Revised August 1, 2011
Submit one copy to
appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-0	15-35	5437	¬	Pool Code	1	Bo	asin Fru	itland	Coal			:
⁴ Property Co		1.31		·	⁵ Pro	perty Nam	ne		- T	⁶ Well Number		
36139	8				SE M	OUN	DS			3		
OGRID N	0.				* Ope	rator Nan	ne			9	Elevation	
538	5380 XTO ENERGY INC.									5278'		
	"Surface Location											
UL or lot no.	Section	Township	Range	Lot Idn	Feet from t	he	North/South line	Feet from the	East/We	est line		County
P	6	29-N	13-W		170		SOUTH	610	EA	ST	SAN	JUAN
			" Bot	tom Hol	e Locatio	n If I	Different From	n Surface				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from t	he	North/South line	Feet from the	East/We	st line		County
P	6	29-N	13-W		700	·	SOUTH	700	EAS	ST	SAN	JUAN
12 Dedicated Acres 13 Joint or Infill					¹⁴ Consolidation Code 15 Order No.							
15/2 8	348.9	ac.	•									

No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.



XTO ENERGY INC.

SE Mounds #3 APD Data October 23, 2012

Location: 170' FSL x 610' FEL Sec 6, T29N, R13W

County: San Juan

State: New Mexico

Bottomhole Location: 700' FSL x 700' FEL Sec 6, T29N, R13W

GREATEST PROJECTED TVD: 1200' GREATEST PROJECTED MD: 1373'

APPROX GR ELEV: <u>5278'</u> Est KB ELEV: 5290' (12' AGL)

OBJECTIVE: Basin Fruitland Coal

1. MUD PROGRAM:

INTERVAL	0' to 225'	225' to 1373'
HOLE SIZE	12.25"	7.875"
MUD TYPE	FW/Spud Mud	FW/Polymer
WEIGHT	8.6-9.0	8.4-8.8
VISCOSITY	28-32	28-32
WATER LOSS	NC	NC

Remarks: Use fibrous materials as needed to control seepage and lost circulation. Pump high viscosity sweeps as needed for hole cleaning. Raise viscosity at TD for logging. Reduce viscosity after logging for cementing purposes.

2. CASING PROGRAM:

Surface Casing: 8.625

8.625" casing to be set at \pm 225' in a 12-1/4" hole filled with 9.20 ppg mud

					Coll	Burst						
					Rating	Rating	Jt Str	ID	Drift	SF	SF	SF
Interval	Length	Wt	Gr	Cplg	(psi)	(psi)	(M-lbs)	(in)	(in)	Coll	Burst	Ten
												_
0'-225'	225'	24.0#	J-55	ST&C	1370	2950	244	8.097	7.972	12.73	27.41	45.19

Production Casing: 5.5" casing to be set at TD (±1373') in 7.875" hole filled with 9.20 ppg mud.

					Coll	Burst						
į į]				Rating	Rating	Jt Str	ID	Drift	SF	SF	SF
Interval	Length	Wt	Gr	Cplg	(psi)	(psi)	(M-lbs)	(in)	(in)	Coll	Burst	Ten
0'-1373	1373'	15.5#	J-55	ST&C	4040	4810	202	4.950	4.825	7.04	8.38	9.49

Remarks: All Casing strings will be centralized in accordance with Onshore Order #2 and NTL FRA-90-1.

3. WELLHEAD:

- A. Casing Head: Larkin Fig 92 (or equivalent), 9" nominal, 2,000 psig WP (4,000 psig test) with 8-5/8" 8rnd thread on bottom and 11-3/4" 8rnd thread on top.
- B. Tubing Head: Larkin Fig 612 (or equivalent), 6.456" nominal, 2,000 psig WP (4,000 psig test), 5-1/2" 8rnd female thread on bottom (or slip-on, weld-on), 8-5/8" 8rnd thread on top.

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

A. Surface:

8.625", 24.0#, J-55, ST&C casing to be set at \pm 225' in 12-1/4" hole.

159 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 186 ft³, 100% excess of calculated annular volume to 225'.

B. Production:

5.5", 15.5#, J-55 (or K-55), ST&C casing to be set at ± 1373 ' in 7.875" hole.

LEAD:

 \pm 60 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:

± 100 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 5-1/2" production casing is 322 ft³.

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

5. LOGGING PROGRAM:

- A. Mud Logger: None.
- B. Open Hole Logs as follows: Run Array Induction/SFL/GR/SP fr/TD (1373') to the bottom of the surface csg. Run Neutron/Lithodensity/Pe/GR/Cal from TD (1373') to the bottom of the surface casing.

6. FORMATION TOPS:

Est. KB Elevation: 5290'

FORMATION	Sub-Sea	TVD	FORMATION	TV Sub-Sea	MD	
Ojo Alamo SS			Gallup			
Kirtland Shale	Outcropping	Surface	Greenhorn			
Fruitland Formation	4844	446	Graneros			
Upper Fruitland Coal**	4416	874	Dakota 1			
Lower Fruitland Coal*	4297	993	Dakota 2			
Pictured Cliffs SS	4265	1025	Dakota 3			
Lewis Shale			Dakota 4			
Chacra SS			Dakota 5			
Cliffhouse SS			Dakota 6			
Menefee			Burro Canyon			
Point Lookout SS			Morrison			
Mancos Shale			TD	4090	1200	

^{*} Primary Objective

TVD

**** Maximum anticipated BHP should be <2,000 psig (<0.30 psi/ft) *****

7. <u>COMPANY PERSONNEL:</u>

Name	Title	Office Phone	Home Phone
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 10/23/12

^{**} Secondary Objective



190

285

380

475-

570

760

1045-

1140

True Vertical Depth

Start 68.50 hold at 676.32 MD Start Drop -10.00

Vertical Section at 351.17°

Start Build 10.00

- Fruitland Formation

Well Name:

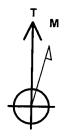
SE Mounds #3

San Juan Division **Drilling Department**

Calculation Method: Minimum Curvature

Geodetic Datum: North American Datum 1983

Lat: 36° 44' 54.10 N Long: 108° 14' 24.58 W

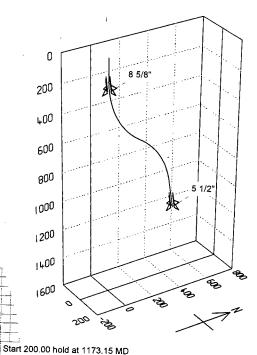


Azimuths to True North Magnetic North: 10.26°

Magnetic Field Strength: 50857.4snT Dip Angle: 63.43° Date: 12/31/2009 Model: IGRF200510

SECTION DETAILS

:	1 0.00 2 148.00 3 676.32 4 744.82 51173.15	10.00	351.17 351.17 351.17	0.00 148.00 604.57 645.96 1003.04	0.00 0.00 224.12 278.05 493.57	0.00 0.00 -34.83 -43.21	0.00 0.00 10.00 0.00	0.00 0.00 351.17 0.00	0.00 0.00 226.81 281.39	
(31373.15	10.00	351.17	1200.00	527.89	-76.70 -82.03	0.00	180.00 0.00	499.49 534.22	Proposed BHL SE Mounds #3



TVDPath MDPath 446.00

874.00

993.00

1025.00

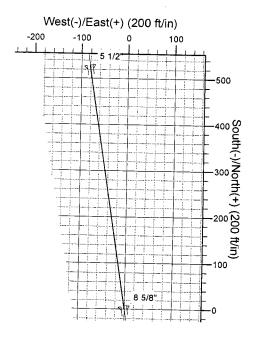
570

461.40

1038.08

1162.94

1195.45



FORMATION TOP DETAILS

Formation	
Fruitland Formation	
Upper Fruitland Coal	
Lower Fruitland Coal	
Pictured Cliffs SS	

CASING DETAILS

XTO Energy Inc.

Planning Report

Database:

EDM

Company:

XTO Energy

Project:

San Juan Basin (NAD 83)

Site:

SE Mounds #3

Well:

SE Mounds #3

Wellbore:

SE Mounds #3

Design:

Permitted Wellbore -- SE Mounds #3

Project

San Juan Basin (NAD 83), San Juan Co., NM,

Map System: Geo Datum:

US State Plane 1983

Map Zone:

North American Datum 1983 New Mexico Western Zone

TVD Reference:

North Reference:

MD Reference:

System Datum:

Local Co-ordinate Reference:

Survey Calculation Method:

Mean Sea Level

True

Well SE Mounds #3

Minimum Curvature

Rig KB @ 5290.00ft (Aztec 507)

Rig KB @ 5290.00ft (Aztec 507)

SE Mounds #3, T29N, R13W

Site Position:

+N/-S

+E/-W

Lat/Long

IGRF200510

Northing:

2,091,973.71ft

Latitude:

36° 44' 54.10 N

From: **Position Uncertainty:**

Easting: Slot Radius: 2,603,904.36ft

Longitude:

108° 14' 24.58 W

0.00 ft

Grid Convergence:

-0.24 °

SE Mounds #3, Fruitland Coal S-well

Well Position

0.00 ft 0.00 ft

Permitted Wellbore -- SE Mounds #3

Northing: Easting:

2,091,973.71 ft 2.603,904,36 ft Latitude: Longitude:

36° 44' 54.10 N 108° 14' 24.58 W

Position Uncertainty

0.00 ft

Wellhead Elevation:

5,278.00 ft

Ground Level:

5,278.00 ft

Wellbore SE Mounds #3

Magnetics

Model Name

Sample Date

Declination 10.26

Dip Angle

Field Strength

50,857

Design

Audit Notes:

Version:

Phase:

PROTOTYPE

Tie On Depth:

0.00

Vertical Section:

+E/-W

Direction

Depth From (TVD) (ft) 0.00

12/31/2009

(ft) 0.00

(ft) 0.00

(8) 350.36

Plan Sections Measured Vertical Dogleg Build Turn Depth Inclination Azimuth **+E/-W** Rate Depth Rate Rate (°/100ft) (°/100ft) (°/100ft) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 148.00 0.00 0.00 148.00 0.00 0.00 0.00 0.00 0.00 0.00 701.78 55.38 350.36 619.50 243.93 -41.42 10.00 10.00 0.00 350.36 350.36 260.41 722.08 55.38 631.03 -44.220.00 0.00 0.00 0.00 10.00 350.36 495.76 -84.19 1,175.87 1,003.04 10.00 -10.00 0.00 180.00 1,375.87 350.36 530.00 10.00 1,200.00 -90.00 0.00 0.00 0.00 0.00 Proposed BHL -- SI

XTO Energy Inc.

Planning Report

EDM

XTO Energy

SE Mounds #3 SE Mounds #3

Database: Company; Project: Site: Well: Wellbore: Design:

San Juan Basin (NAD 83)

M Local Co-ordinate Reference:
TVD Reference:
TVD Reference:
MD Reference:
North Reference:
North Reference:

SE Mounds #3 Permitted Wellbore -- SE Mounds #3

Survey Calculation Method:

Well SE Mounds #3

Rig KB @ 5290.00ft (Aztec 507) Rig KB @ 5290.00ft (Aztec 507)

True

Minimum Curvature

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Measured			Vertical			Vertical •	Dogleg	Build	Türn
CAT PAGE AND THE PROPERTY AND ADMINISTRATION OF THE PAGE AND A	clination	Azimuth	Vertical Depth	+N/-S	was the first of the state of t	Section	Rate	Rate	Rate
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(\$/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
148.00	0.00	0.00	148.00	0.00	0.00	0.00	0.00	0.00	0.00
150.00	0.20	350.36	150.00	0.00	0.00	0.00	10.00	10.00	0.00
200.00	5.20	350.36	199.93	2.32	-0.39	2.36	10.00	10.00	0.00
250.00	10.20	350.36	249.46	8.93	-1.52	9.06	10.00	10.00	0.00
300.00	15.20	350.36	298.22	19.76	-3.36	20.04	10.00	10.00	0.00
350.00	20.20	350.36	345.84	34.74	-5.90	35.24	10.00	10.00	0.00
400.00	25.20	350.36	391.95	53.76	-9.13	54.53	10.00	10.00	0.00
450.00	30.20	350.36	436.21	76.67	-13.02	77.76	10.00	10.00	0.00
461.40	31.34	350.36	446.00	82.41	<i>-</i> 13.99	83.59	10.00	10.00	0.00
Fruitland For		050.00	470.07	400.00	47 5.	404.77	40.00	40.00	0.00
500.00 550.00	35.20	350.36	478.27 517.82	103.29	-17.54	104.77	10.00	10.00	0.00
550.00 600.00	40.20 45.20	350.36 350.36	517.82 554.55	133.42 166.84	-22.66	135.33	10.00 10.00	10.00 10.00	0.00 0.00
650.00	50.20	350.36	588.19	203.29	-28.33 -34.52	169.23 206.20	10.00	10.00	0.00
701.78	55.38	350.36	619.50	243.93	-41.42	247.43	10.00	10.00	0.00
722.08	55.38	350.36	631.03	260.41	-44.22	264.14	0.00	0.00	0.00
750.00 800.00	52.59	350.36	647.45 679.52	282.67 320.46	-48.00	286.71	10.00	-10.00 -10.00	0.00 0.00
850.00	47.59 42.59	350.36 350.36	714.81	355.36	-54.42 -60.34	325.05 360.45	10.00 10.00	-10.00 -10.00	0.00
900.00	37.59	350.36	753.05	387.09	-65.73	392.63	10.00	-10.00	0.00
950.00	32.59	350.36	793.95	415.42	-70.54	421.37	10.00	-10.00	0.00
1,000.00	27.59	350.36	837.20 874.00	440.12	-74.74	446.42	10.00	-10.00	0.00
1,040.79	23.51	350.36	074.00	457.46	-77.68	464.01	10.00	-10.00	0.00
Upper Fruitlar 1,050,00	22.59	350.36	882.47	461.02	-78.29	467.62	10.00	-10.00	0.00
1,100.00	17.59	350.36	929.41	477.94	-81.16	484.78	10.00	-10.00	0.00
1,150.00	12.59	350.36	977.68	490.77	-83.34	497.79	10.00	-10.00	0.00
1,165.66	11.02	350.36	993.00	493.92	-83.87	501.00	10.00	-10.00	0.00
Lower Fruitlan		000.00	500.00	700.02	-00.07	301.00	10.00	10.00	0.00
1,175.87	10.00	350.36	1,003.04	495.76	-84.19	502.86	10.00	-10.00	0.00
1,198.17	10.00	350.36	1,025.00	499.58	-84.83	506.73	0.00	0.00	0.00
Pictured Cliffs			.,		0			2.23	-,
1,200.00	10.00	350.36	1.026.81	499.89	-84.89	507.05	0.00	0.00	0.00
1,300.00	10.00	350.36	1,125.29	517.01	-87.79	524.41	0.00	0.00	0.00
1,375.87	10.00	350.36	1,200.00	530.00	-90.00	537.59	0.00	0.00	0.00

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Proposed BHL -- SE N

0.00

0.00 1,200.00

530.00

-90.00 2,092,504.09 2,603,816.61

36° 44' 59.34 N 108° 14' 25.68 W

- plan hits target - Point

XTO Energy Inc.

Planning Report

EDM

XTO Energy

San Juan Basin (NAD 83)

Database: Company: Project: Site: Well: Wellbore: SE Mounds #3 SE Mounds #3 SE Mounds #3

Design: Permitted Wellbore -- SE Mounds #3 Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:

Well SE Mounds #3

Rig KB @ 5290.00ft (Aztec 507) Rig KB @ 5290.00ft (Aztec 507)

True

Minimum Curvature

Formations Measured Vertic Depth Depti		Dip Dip Direction (*) (*)
461.40 446	00 Fruitland Formation	0.00
1,040.79 874	00 Upper Fruitland Coal	0.00
1,165.66 993	00 Lower Fruitland Coal	0.00
1,198.17 1,025	00 Pictured Cliffs SS	0.00

SURFACE USE PLAN

XTO Energy Inc.
SE Mounds #3
170' FSL x 610' FEL
Section 6, T29N, R13W
San Juan County, New Mexico

TWELVE POINT SURFACE USE PLAN

The dirt contractor will be provided with an approved copy of the surface use plan of operations before initiating construction.

1. Existing Roads:

- a. Proposed route to location is shown on the USGS quadrangle map: See Exhibit "A".
- b. The proposed well site is located at 170' FSL & 610' FEL (SESE) Sec. 6, T29N, R13W, San Juan County, NM.
- c. Location of proposed well in relation to town or other reference point:

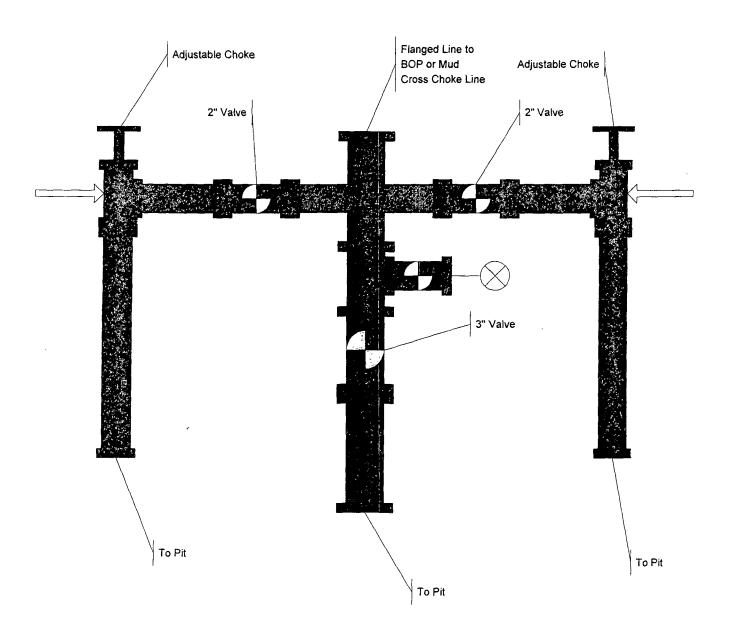
From the intersection of Pinon Hills Blvd. and La Plata Hwy, Head East on Pinon Hills Blvd. for 0.25 miles. Turn Right into the Sports Complex/baseball fields. Go through the back of the baseball field parking lot to location.

d. All existing roads within 1 mile of the drill site are shown on Exhibit "A". If necessary, all existing roads that will be used for access to the well location will be maintained to their current condition or better unless BLM approval or consent is given to upgrade the existing road(s).

Planned Access Roads:

- a. Location (centerline): Starting from a point along an existing road in SW/4 NW/4 Sec 5, T29N, R13W to NE/4 SE/4 Sec. 6, T29N, R13W.
- b. Length of new access to be constructed: Approx 349 feet of new access will be constructed in order to gain safe access to the wellpad. See Exhibit "A".
- c. Length of existing roads to be upgraded: None
- d. Maximum total disturbed width: Typically both existing roads and new access roads require up to 40' of disturbed width in order to obtain a 20' driving surface. If both the road and pipeline are capable of sharing the ROW, then only 50' of disturbed width may be needed.
- e. Maximum travel surface width: 25' or less
- f. Maximum grades: Maximum grades will not exceed 10% after construction.
- g. Turnouts: No turnouts are planned. They may be specified in the approved APD.
- h. Surface materials: Only native materials will be used during construction. If necessary, gravel or rock may be purchased and used to improve road conditions and travel.

XTO Energy		
3M Choke	-	
Manifold		



XTO Energy		
3M BOP Stack		

