<u>District.1</u>
1625 N French Dr., Hobbs, NM 88240
Phone (575) 393-6161 Fax (575) 393-0720
<u>District.11</u>
811 S First St., Artesia, NM 88210
Phone (575) 748-1283 Fax (575) 748-9720
<u>District.111</u>
1000 Rio Brazos Road, Aztec, NM 87410

Phone. (505) 334-6178 Fax (505) 334-6170

1220 S St Francis Dr , Santa Fe, NM 87505 Phone (505) 476-3460 Fax (505) 476-3462

PRIOR TO CACING & CEMENT

District IV

State of New Mexico

Energy Minerals and Natural Resources

Oil Conservation Division

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-101 Revised December 16, 2011



API	PLICAT	TION F	OR PERMI Operator Name	T TO DRII	L, RE-I	ENTER,	DEEP	EN, PLUG		R ADD A ZONE
		:	XTO Energ 382 CR 3100, Azte 505/333-3	y, Inc. c NM, 87410					² OGRID N 5380 ³ API Nur 30-039-31	mber
Prope	rty Code			3	Property Non	20				° Well No.
	rty Code 304759			S	Property Nam TATE B COM	M				233F
				7	Surface :	Location	1			
UL - Lot L	Section 16	Township 26N	Range 06W	Lot Idn	Feet from 2454	N/	S Line S	Feet From 1209	E/W Line	e County RIO ARRIBA
	<u> </u>			8]	Pool Info	ormation	1			
BASIN DAKOTA BLANCO MESAV BASIN MANCOS	•		,							71599 72319 97232
9			10	Additio	onal We			2		
New	Well		¹⁰ Well Type GAS		11 Cable/Rota			² Lease Type State		Ground Level Elevation 6680
	iltiple Y		15 Proposed Depth 7650		¹⁶ Formation Dakota	1		¹⁷ Contractor		¹⁸ Spud Date 4/15/2012
Depth to Grou	nd water		Dista	nce from nearest fr	esh water we	11		Distanc	e to nearest sur	face water
			19	Proposed C	Casing a	nd Cem	ent Prog	gram		
Туре	Hole	Sıze	Casing Size	Casing Wei			g Depth	1	f Cement	Estimated TOC
Surf	12.	25	9.625	36		5	00	4	00	
Int. 1	8.7	75	7	23		48	350	135	Lead	!
Int. 1	8.7	75	7	23	+		350		<u>Tail</u>	
Int. 2	8.7		7	23			350		Lead	<u> </u>
Int. 2	8.7		7	23			350		<u>Tail</u>	
Prod.	6.2		4.5 4.5	11.6			550 550		<u>Lead</u> Tail	
Prod.	1 0.2	23	···	ng/Cement l					1 411	
Please see a	attached di	rilling pro	ogram BOP and				-			CVD APR 2'12 IIL CONS. DIV. DIST. 3
]	Proposed Bl	lowout P	reventio	n Prog	ram		
	Туре		,	Working Pressure			Test Pres	sure		Manufacturer
								· · · · · · · · · · · · · · · · · · ·		
of my knowle	dge and beli	ıef.	given above is true	•			OIL C	ONSERVA	TION DI	VISION
NMOCD gui OCD-approv Signature.	delines [], /ed plan []	a general	permit □, or an	(attached) altern	ativo	pproved By.		1,//	,	APPROSEL 4-30-1 Exp. Res 4-30-1
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APR 3 0 2012 Ca

DISTRICT I 1625 N. French Dr., Hobbs, N.M. 88240 1301 W. Grand Avenue, Artesia, N.M. 88210

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

DISTRICT IV

PROPORTION

N 89°57'52" W 2643.72'

OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, N.M. 87505

Form C-102 Revised July 16, 2010 Submit one copy to appropriate District Office

☐ AMENDED REPORT

State of New Mexico

Energy, Minerals & Natural Resources Department

1220 S. St. Francis Dr., Santa Fe, N.M. 87505 WELL LOCATION AND ACREAGE DEDICATION PLAT ² Pool Code ³ Pool Name ¹ API Number 30-039-31115 DUKOTO Well Number Property Code ⁵Property Name 233F STATE B COM 30475° • Elevation ⁸Operator Name OGRID No. 6680 XTO ENERGY, INC 5380 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 6 W SOUTH 1209 **WEST** RIO ARRIBA 2454 16 26 N ¹¹ Bottom Hole Location If Different From Surface Lot Idn Feet from the North/South line Feet from the UL or lot no. East/West line Section Township Range County 12 Dedicated Acres 13 Joint or Infill 14 Consolidation Code 15 Order No. R-1627 ヱヱロ 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 1957 B.L.M. I hereby certify that the information contained herein is **BRASS CAP** 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. 1957 B.L.M. BRASS CAP SECTION 16 18 SURVEYOR CERTIFICATION 12091 SURFACE LOCATION I hereby certify that the well location shown on this plat LAT: 36.4865220° N was plotted from field notes of actual surveys made by me 97 LONG: 107.4781811° W or under my supervision, and that the same is true and correct to the best of my belief. **NAD 83** LAT: 36°29.19071 N 54 06/09/11 LONG: 107°28.65462' W Date of Survey **NAD 27** Signature and Se 00°27 z ESSIONAL SUR 1957 B.L.M. SECTION COR. 1956 B.L.M. 17078 CALC. BY DOUBLE **BRASS CAP BRASS CAP**

S 88°36'47" W 2600.77'

Certificate Number

DISTRICT I 1625 N. French Dr., Hobbs, N.M. 88240

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

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

1220 S. St. Francis Dr., Santa Fe, N.M. 87505

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, N.M. 87505

Form C-102 Revised July 16, 2010 Submit one copy to appropriate District Office

☐ AMENDED REPORT

			Ţ	WELL L	OCATIO	N AND A	CREAGE DED	ICATION PI	LAT	
		Number			² Pool Cod	le		³ Pool		
3	<u>6-639</u>		,15	723	<u></u>		Blanco	Mesqu	erde	⁶ Well Number
	Property C					⁵ Proper				233F
\vdash	35475 OGRID N					STATE Operat	or Name			° Elevation
ļ	7 <u>8</u> 6G				>	KTO ENER				6680
						·	e Location		· · · · · · · · · · · · · · · · · · ·	
U	or lot no.	Section	Township	Range	Lot idn	Feet from the	North/South line	Feet from the	East/West line	County
	L	16	26 N	6 W		2454	SOUTH	1209	WEST	RIO ARRIBA
				11 Botto	m Hole	Location	If Different Fr	om Surface		
UI	or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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-			OR A N	ION_STA	NDARD (JNIT HAS I	BEEN APPROVED			
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								proposed bottom	hole location or ha	s a right to drill this
2700.								1 1	ation pursuant to a a mineral or workin	
7									ng agreement or a c ed by the division	ompulsory pooling order
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16				7.4781811				or under my su	pervision, and that	the same is true and
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DISTRICT I 1625 N. French Dr., Hobbs, N.M. 88240

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

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DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, N.M. 87505 State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, N.M. 87505

Form C-102 Revised July 16, 2010 Submit one copy to appropriate District Office

☐ AMENDED REPORT

		I	NELL I	LOCATIO)N AND A	CREAGE DED	ICATION P	LAT		
¹ API	Number			² Pool Coo	de		³ Pool	Name		
30-039		15	972	32		Basin	Manco:	<u> </u>		
Property C					⁵ Propert	•			'	Well Number
30475					STATE					233F
OGRID N				_	-	or Name				* Elevation
<u>862, </u>	<u>D</u>				XTO ENER	GY, INC.				6680
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UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	st line	County
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			11 Botte	om Hole	Location	If Different Fr	om Surface			
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2				1			voluntary poolis	ng agreemen	t or a c	ompulsory pooling order
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2703		NAD 83	/	1			correct to the be	est of my be	dief.	
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CALC. BY DOU PROPORTION		°57'52" W	2643.72	1	AF S 88°36'47"		Certificate Nu	mber		

XTO ENERGY INC.

State B Com #233F **APD Data**

March 12, 2012



GREATEST PROJECTED TD: 7650'

OBJECTIVE: Basin Dakota / Mancos / Mesaverde

Est KB ELEV: 6692' (12' AGL)

1. MUD PROGRAM:

APPROX GR ELEV: 6680'

INTERVAL	0' to 500'	500' to 4850'	4850' to 7650'
HOLE SIZE	12.25"	8.75"	6.25"
MUD TYPE	FW/Spud Mud	FW/Polymer	Air/Air Mist
WEIGHT	8.6-9.0	8.4-8.8	NC
VISCOSITY	28-32	28-32	NC
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.

CASING PROGRAM:

Surface Casing: 9.625" casing to be set at \pm 500' in a 12.25" hole filled with 9.2 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'-500'	500'	36#	J-55	ST&C	2020	3520	394	8.921	8.765	8.44	14.72	21.89

7" casing to be set at \pm 4850' in an 8.75" hole filled with 9.2 ppg mud Intermediate Casing:

					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'-4850'	4850'	23#	J-55	ST&C	3270	4360	284	6.366	6.241	1.41	1.88	2.55

Production Casing: 4.5" casing to be set at TD (\pm 7650') in a 6.25" hole filled with 9.2 ppg mud.

			,		Q								
						Coll	Burst						
1				1		Rating	Rating	Jt Str	ID	Drift	SF	SF	SF
I	Interval	Length	Wt	Gr	Cplg	(psi)	(psi)	(M-lbs)	(in)	(in)	Coll	Burst	Ten
ı		,											
١	0'-7650	7650'	11.6#	L-80	LT&C	6350	7780	212	4.00	3.875	1.74	2.14	2.40

¹Collapse SF is based on evacuated annulus and hydrostatic at measured depth.

3. WELLHEAD:

A. Casing Head: 11" x 9-5/8" x 7" x 4-1/2" 3000 psig WP C-22 Profile.



²Burst SF is based on evacuated casing and hydrostatic at measured depth.

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



B. Tubing Head: 11" x 7-1/16" 5000psig WP TCM.

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: 9.625", 36#, J-55, ST&C casing to be set at \pm 500' in 12-1/4" hole.

400 sx of Class G w/ 1% $CaCl_2 + 0.125$ pps Poly-E-Flake + 4/10 HR 339 Fluid Loss Additive (mixed @ 15.8 ppg, yield -1.17 ft³/sk, mix wtr. – 5.00 gal/sk)

Total slurry volume is 556 ft³, 100% excess of calculated annular volume to 500'.

B. Intermediate: 7", 23#, J-55, ST&C casing to be set at \pm 4850' in 8-3/4" hole. DV Tool set @ \pm 3000'

1st Stage

LEAD:

 ± 135 sx of Premium Light Cmt w/ 10 pps Gilsonite + 0.125 pps Poly-E-Flake + 0.3% HR-5 (mixed at 12.3 ppg, yield - 1.928 ft³/sk, mix wtr. - 9.249 gal/sk)

TAIL:

100 sx 50:50 Poz Premium w/ 5 pps Gilsonite + 0.125 pps Poly-E-Flake + 0.6% Halad (R)-9 + 0.2% CFR-3 (mixed at 13.5 ppg, yield - 1.29 ft³/sk, mix wtr. - 5.10 gal/sk).

2nd Stage

LEAD:

 \pm 250sx of Premium Light Cmt w/ 10 pps Gilsonite + 0.125 pps Poly-E-Flake + 0.3% HR-5 (mixed at 12.3 ppg, yield - 1.928 ft³/sk, mix wtr. – 9.249 gal/sk)

TAIL:

100 sx 50:50 Poz Premium w/ 5 pps Gilsonite + 0.125 pps Poly-E-Flake + 0.6% Halad (R)-9 + 0.2% CFR-3 (mixed at 13.5 ppg, yield - 1.29 ft³/sk, mix wtr. - 5.10 gal/sk).

Total slurry volume is 1000 ft³, 40% excess of calculated annular volume to 4850'

Note: The slurry design may change slightly based upon actual conditions. It will be attempted to circulate cement to the surface.

C. Production: 4.5", 11.6#, L-80, LT&C casing to be set at ± 7650 ' in 6-1/4" hole.

LEAD:

 ± 147 sx of Premium Light Cmt w/ 10 pps Gilsonite + 0.125 pps Poly-E-Flake + 0.3% HR-5 (mixed at 12.3 ppg, yield - 1.928 ft³/sk, mix wtr. - 9.249 gal/sk)

TAIL:

100 sx 50:50 Poz Premium w/ 5 pps Gilsonite + 0.125 pps Poly-E-Flake + 0.6% Halad (R)-9 + 0.2% CFR-3 (mixed at 13.5 ppg, yield - 1.29 ft³/sk, mix wtr. - 5.10 gal/sk).

Total estimated slurry volume for the 4-1/2" production casing is 418 ft³, 40% excess of calculated annular volume.

Note: The slurry design may change slightly based upon actual conditions. Cement design calculated to circulate cement a minimum of 100' into the previous casing string.

5. LOGGING PROGRAM:

A. Mud Logger: None.B. Open Hole Logs: None.

6. FORMATION TOPS:

Est. KB Elevation: 6692'

FORMATION	Sub-Sea	MD	FORMATION	TV Sub-Sea	MD
Naciemento	5434	1258			
Ojo Alamo SS	4378	2314	Tocito	-47	6739
Kirtland Shale	4184	2508	Greenhorn	-442	7134
Fruitland Formation	4045	2647	Graneros	-512	7204
Lower Fruitland Coal	3714	2978	Dakota 1	-530	7222
Pictured Cliffs SS	3700	2992	Dakota 2	-588	7280
Lewis Shale	3554	3138	Dakota 3	-622	7314
Chacra SS	2814	3878	Dakota 4	-664	7356
Cliffhouse SS	1985	4707	Dakota 5	-716	7408
Menefee	1943	4749	Dakota 6	-761	7453
Point Lookout SS	1460	5232	Burro Canyon	-842	7534
Mancos Shale	1092	5600	Morrison	-908	7600
Gallup	365	6327	TD	-958	7650

^{*} Primary Objective

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

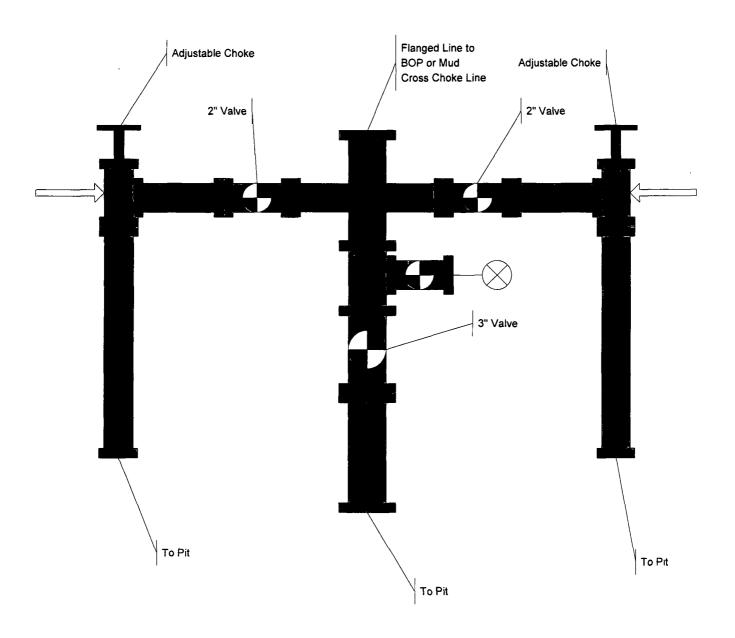
Name	Title	Office Phone	Home Phone
Justin Niederhofer	Drilling Engineer	303-397-3719	505-320-0158
Bobby Jackson	Drilling Superintendent	303-397-3720	505-486-4706
Reed Meek	Project Geologist	817-885-2800	

JN 3/12/12

^{**} Secondary Objective

^{****} Maximum anticipated BHP should be <2,300 psig (<0.30 psi/ft) *****

	XTO Energy	j
3M Choke		C William To The Control of the Cont
Manifold		<i>O</i>



	OTX	Energy	
3M BOP Stack			

