				PTGW,	
DATE IN	4.18.12 SUSPENS	se ENGINEER UUT	LOGGED IN 4, 18, 12 TYPE DH	APP NO. 1744	185 S
		NEW MEXICO OIL CON - Engineerin 1220 South St. Francis Dri	ng Bureau - ive, Santa Fe, NM 87505	BREEDA	5380 D=#5
			APPLICATION CHE		05067
		WHICH REQUIRE PROCES	E APPLICATIONS FOR EXCEPTIONS TO SING AT THE DIVISION LEVEL IN SANT		NS
Аррис	[DHC-Dowi	ndard Location] [NSP-Non-Sta nhole Commingling] [CTB-Lo ol Commingling] [OLS - Off- [WFX-Waterflood Expansion] [SWD-Salt Water Disposa	Lease Storage] [OLM-Off-Le	ol/Lease Commingling] ease Measurement] e Expansion] crease]	
[1]	TYPE OF AP [A]	PLICATION - Check Those N Location - Spacing Unit - Sin NSL NSP	Which Apply for [A] nultaneous Dedication SD	A-3-26N	1-6u
	Check [B]	One Only for [B] or [C] Commingling - Storage - Mea		OLM	
	[C]	Injection - Disposal - Pressure WFX PMX	e Increase - Enhanced Oil Reco SWD	•	
	[D]	Other: Specify			
[2]	NOTIFICATI	`	k Those Which Apply, or □ Doderriding Royalty Interest Owner	• • •	
	[B]	Offset Operators, Leasel	nolders or Surface Owner		
	[C]	Application is One Which	ch Requires Published Legal No	otice	
	[D]	Notification and/or Cond U.S. Bureau of Land Management - C	current Approval by BLM or SI commissioner of Public Lands, State Land Office	LO .	
	[E]	For all of the above, Pro-	of of Notification or Publication	is Attached, and/or,	
	[F]	☐ Waivers are Attached			
[3]		CURATE AND COMPLETE ATION INDICATED ABOVE	INFORMATION REQUIRE	ED TO PROCESS THE TY	PE
	al is accurate ar	nd complete to the best of my k	e information submitted with thi knowledge. I also understand the tions are submitted to the Divis	at no action will be taken on	
	Note:	Statement must be completed by a	n individual with managerial and/or s	upervisory capacity.	
NDIGLE.	N D I VNCH		PECULATORY	7 ANAI VST 4/17/12	

kristen lynch@xtoenergy.com e-mail Address

Date

Title

Print or Type Name

Signature

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 Fc. NM 87505

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-107A Revised June 10, 2003

Oil Conservation Division

1220 South St. Francis Dr. Santa Fe, New Mexico 87505

APPLICATION TYPE <u>X</u> Single Well Establish Pre-Approved Pools

APPLICATION FOR DOWNHOLE COMMINGLING

EXISTING WELLBORE __X_ Yes ___No

XTO ENERGY INC.		382 CR 310	00		AZT	TEC. NM-874	100		
Operator BREECH E	#58		Addr A Sec 3	ess T26N R6V	w DF	1c-45	5	RIO ARR	RIBA
Lease	Well No.		Unit Letter-S	ection-Town	ship-Range			County	
OGRID No. 5380 Property Cod	e_ <u>304753</u> _	_ API No_	30-039-06	5737	_Lease Typ	e: <u>X</u> Fed	eral	_State	Fee
DATA ELEMENT	U	PPER ZOI	NE	INTE	RMEDIAT	E ZONE	!	LOWER ZO	ONE
Pool Name Basin DK/Blanco MV/ Otero CH	BLAN	VCO MESAV	ERDE O (F	BASIN MANC	os		BASIN DAKO)TA
Pool Code		72319			97232			71599	
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)		4824' – 5429	;		6638' - 6752	,		7308' -7551	,
Method of Production (Flowing or Artificial Lift)		FLOWING			FLOWING			FLOWING	;
Bottomhole Pressure (Note: Pressure data will not be required if the bottom perforation in the lower zone is within 150% of the depth of the top perforation in the upper zone)		₹76	<u></u>		764			1479	ok
Oil Gravity or Gas BTU (Degree API or Gas BTU)		<u></u>			<u> </u>				
Producing, Shut-In or New Zone		NEW ZONE	6 <u> </u>		اسعد الم P RODUCIN	5000 -		PRODUCIN	IG
Date and Oil/Gas/Water Rates of Last Production. (Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data.)	Date: 2/1	1/2012 3O/719 MC	CF/ 0 BW	\	:			2/1/2012 0 BO/1224 M	//CF/0 BW
Fixed Allocation Percentage	Oil	Gas	Water	Oil	Gas	Water	Oil	Gas	Water
(Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	0 %	15 %	0 %	100 %	60 %	100 %	0 %	25 %	0 %
. ,	<u> </u>		DDITION	AL DAT					
Are all working, royalty and overriding If not, have all working, royalty and over		rests identica	al in all com	mingled zo	nes?	il?		Yes X Yes	
Are all produced fluids from all commit	ngled zones	compatible	with each ot	her?				YesX_	. No
Will commingling decrease the value of	f production	?						Yes	NosX
If this well is on, or communitized with or the United States Bureau of Land Ma						c Lands		YesX	No
NMOCD Reference Case No. applicabl	e to this wel	11:							
Attachments: C-102 for each zone to be comming Production curve for each zone for For zones with no production histor Data to support allocation method of Notification list of working, royalty Any additional statements, data or of	at least one yry, estimated or formula.	year. (If not I production I production I production I proyalty i	available, a rates and su interests for	ttach explai pporting da uncommon	nation.) ta.	s.			
		PRE	E-APPRO	VED POO	LS				
If application is	to establish	Pre-Approve	ed Pools, the	e following	additional int	formation wi	ll be requ	ired:	
List of other orders approving downhold List of all operators within the proposed Proof that all operators within the proposed Bottomhole pressure data.	d Pre-Appro	ved Pools		• • •		ation.			
I hereby certify that the information	above is to	rue and con	nplete to th	ne best of n	ny knowled	ge and belie	ef.		٠
SIGNATURE TYPE OR PRINT NAME KRIST	ΓEN D. LY		LE <u>REG</u>	JLATORY	ANALYS	<u>T</u> EPHONE N	10. (_		E <u>4/10/12</u> -3206

Jones, William V., EMNRD

From:

Jones, William V., EMNRD

Sent:

Wednesday, May 09, 2012 10:31 AM

To:

'kristen_lynch@xtoenergy.com'; 'Lorri_Bingham@xtoenergy.com'

Cc:

Brooks, David K., EMNRD

Subject:

Downhole Commingle Applications from XTO in Farmington

Hello Kristen and Lorri:

I am processing 5 of your applications and noticed a couple of things.

- a. There are 3 of these applications that involve different sizes of spacing units, yet interests are shown as "Identical". While it is true these could be identical, it seems odd and wanted to ask if you have checked with your Land department to confirm?
- b. With future applications, please send a copy of the C-102 form for each Well-Completion being commingled. In other words if you are commingling the Otero-Chacra with the Basin-Dakota that well should have a C-102 for each of these pools.
- c. The following three applications have perforation ranges outside the 150% allowed and reservoir pressures should have been sent with the applications for each Pool in that well.
 - a. 30-039-06737
 - b. 30-045-31913
 - c. 30-045-30819

Please ask your engineer to estimate the Static Reservoir Pressure for each pool being commingled in those three wells and send me the pressures by email. I will then update the C-107A forms and process the permits.

Take Care and have a wonderful day,

William V Jones, P.E.
Engineering, Oil Conservation Division
1220 South St. Francis Drive, Santa Fe, NM 87505
Tel 505.476.3448 ~ Fax 505.476.3462



Breech E 58 - Downhole Commingle (BHP and Fracture Parting Pressure Calculation)

	Mesaverde	Mancos	Dakota
Gas Specific Gravity	0.694	0.681	0.698
Depth to Mid Perf (ft)	5295	6600	7340
Shut in Casing Pressure (psia)	. 591	813	1209
Surface Temperature (deg F)	60	60	60
Bottom Hole Temperature (deg F)	136	139	150
Static BHP (psia)	676	964	1479
Fracture Parting Pressure (psia)	3442	4290	4771

Breech E 58 - Allocations

| MUL | CUMUL | CUMUL | AVERAGE | AVERAGE | AVERAGE | (BBL) | GAS (MCF) | WATER (BBL) | OIL (BBL/D) | GAS (MCF/D) | WATER (BBL/D) | 4175.00 | 327171.00 | 248.00 | 1.90 | 148.85 | 0.11 | 271.00 | 93422.00 | 607.00 | 0.14 | 47.45 | 0.31 | 4723.00 | 144943.00 | 1036.00 | 5.39 | 165.46 | 1.18 | 361.00 | 46094.00 | 195.00 | 0.70 | 88.98 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0. CUMUL Wells Only Producing from the Mancos Reservoir within the 9 Section surrounding the Breech E 58 drilled after 2005

| LEASE | NO. | RESERVOIR | Section | Township | Range | FIELD BASIN BASIN BASIN BASIN OPERATOR 1st PROD LAST PROD DAYS ON Range OIL (BBL) LEASE 685E (NPI) 113E (NPI) 26 N 26 N 27 N 27 N 26 N 27 N XTO ENERGY XTO ENERGY BREECH D 20060131 20111201 2198 MANCOS 6 W 6 W 6 W 6 W 6 W STATE COM MANCOS 20060430 20111201 1969 16 (NPI) 2 (NPI) 158 (NPI) 4M (NPI) XTO ENERGY XTO ENERGY XTO ENERGY XTO ENERGY BREECH F 33 33 20111201 MANCOS 20090930 676 MANCOS MANCOS MANCOS 20100930 20110430 20110930 518 BREECH A 10 BASIN BASIN 20111201 20111201 284 153 424.00 116.00 33571.00 9117.00 1314.00 BREECH F 91.00 Average

Breech E 58 Current I	greech E 58 Current Production 12 MONTH AVERAGE OF LATEST PROD								ATEST PROD	
LEASE	NO.	RESERVOIR	Section	Township	Range	FIELD	OPERATOR	OIL (BBL/D)	GAS (MCF/D)	WATER (BBL/D)
BREECH E	58	DAKOTA		3 26 N	6 W	BASIN	XTO ENERGY	0.00	43.57	0,00
BREECH E	58	MESAVERDE		3 26 N	6 W	BLANCO	XTO ENERGY	0.00	25:58	0.00

	Oil	Gas	Water
Mancos Mancos	100%	60'	% 100%
Dakota	0%	25	% 0%
Mesaverde	0%	15	% 0%
Total	100%	100	% 100%