

DATE IN 7.26.11	SUSPENSE	ENGINEER WVJ	LOGGED IN 7.26.11	TYPE DHC	APP NO 1120756940
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -
1220 South St. Francis Drive, Santa Fe, NM 87505



XTO
5380

ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

- [1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]
- [A] Location - Spacing Unit - Simultaneous Dedication
☐ NSL ☐ NSP ☐ SD
- Check One Only for [B] or [C]
- [B] Commingling - Storage - Measurement
☒ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM
- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR
- [D] Other: Specify _____
- [2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or ☐ Does Not Apply
- [A] ☐ Working, Royalty or Overriding Royalty Interest Owners
- [B] ☐ Offset Operators, Leaseholders or Surface Owner
- [C] ☐ Application is One Which Requires Published Legal Notice
- [D] ☒ Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F] ☐ Waivers are Attached

- [3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

WANETT MCCAULEY
Print or Type Name

Wanett McCauley
Signature

REGULATORY COMPLIANCE TECHNICIAN
Title

7/21/2011
Date

wanett_mccauley@xtoenergy.com
e-mail Address

DISTRICT I
1625 N French Dr., Hobbs, NM 88240
DISTRICT II
1301 W Grand Avenue, Artesa, NM 88210
DISTRICT III
1000 Rio Brazos Rd, Aztec, NM 87410
DISTRICT IV
1220 S St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Oil Conservation Division

1220 South St Francis Dr
Santa Fe, New Mexico 87505

Form C-107A
Revised June 10, 2003

APPLICATION TYPE

☒ Single Well

☐ Establish Pre-Approved Pools

EXISTING WELLBORE

☐ Yes ☒ No

APPLICATION FOR DOWNHOLE COMMINGLING

Operator XTO Energy Inc. Address 382 CR 3100, Aztec, NM 87410
Lease Breach D Well No #685G Unit Letter-Section-Township-Range J Sec 11 T26N R06W County Rio Arriba
OGRID No 5380 Property Code 304752 API No 30-039-31014 Lease Type X Federal ☐ State ☐ Fee ☐

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	<u>Blanco Mesaverde</u>	<u>Basin Mancos</u>	<u>Basin Dakota</u>
Pool Code	<u>72319</u>	<u>97232</u>	<u>71599</u>
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	<u>5200' - 5400'</u> <u>estimated</u>	<u>6530' - 6780'</u> <u>estimated</u>	<u>7240' - 7560'</u> <u>estimated</u>
Method of Production (Flowing or Artificial Life)	<u>Flowing</u>	<u>Flowing</u>	<u>Flowing</u>
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)	<u>676</u>	<u>974</u>	<u>1494</u>
Oil Gravity or Gas BTU (Degree API or Gas BTU)			
Producing, Shut-In or New Zone	<u>New Zone</u>	<u>New Zone</u>	<u>New Zone</u>
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 Rates	Date Rates	Date Rates
	Date Rates	Date Rates	Date Rates
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required)	Oil <u>26</u> % Gas <u>20</u> %	Oil <u>58</u> % Gas <u>38</u> %	Oil <u>16</u> % Gas <u>42</u> %

Are all working, overriding, and royalty interests identical in all commingled zones? Yes ☒ No ☐
If not, have all working, overriding, and royalty interests been notified by certified mail? Yes ☐ No ☐

Are all produced fluids from all commingled zones compatible with each other? Yes ☒ No ☐

Will commingling decrease the value of production? Yes ☐ No ☒

If this well is on, or communitized with, state or federal lands, has either the Commissioner of Public Lands
or the United States Bureau of Land Management been notified in writing of this application? Yes ☒ No ☐

NMOCD Reference Case No applicable to this well _____

ATTACHMENTS

- C-102 for each zone to be commingled showing its spacing unit and acreage dedication
- Production curve for each zone for at least one year (If not available, attach explanation)
- For zones with no production history, estimated production rates and supporting data
- Data to support allocation method or formula
- Notification list of all offset operators
- Notification list of working, overriding, and royalty interests for uncommon interest cases
- Any additional statements, data, or documents required to support commingling

If application is to establish Pre-Approved Pools, the following additional information will be required

- List of other orders approving downhole commingling within the proposed Pre-Approved Pools
- List of all operators within the proposed Pre-Approved Pools
- Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application
- Bottomhole pressure data
- I hereby certify that the information above is true and complete to the best of my knowledge and belief

SIGNATURE Wanett McCauley TITLE Reg Compliance Technician DATE 7/21/2011

TYPE OR PRINT NAME Wanett McCauley TELEPHONE NO (505) 333-3630

E-MAIL wanett.mccauley@xtoenergy.com

Breech D 685G - Allocations (Using XTO Wells in 26N 6W and 27N 6W)

Modern Dakota Wells Drilled after 1990

LEASE NAME	NO.	RESERVOIR	SECTION	TOWNSHIP	RANGE	FIELD	OPERATOR	1st PROD	LAST PROD	DAYS ON	CUMUL	CUMUL	CUMUL	EUR	EUR	AVERAGE
											OIL (BBL)	GAS (MCF)	WATER (BBL)	OIL (MBO)	GAS (MMCF)	WATER (BBL/D)
BREECH F	8M (NPI)	DAKOTA	34	27 N	6 W	BASIN	XTO ENERGY	19980531	20101201	4378	2562	440750	797	3.05	595.04	0.18
STATE B COM	233R (NPI)	DAKOTA	16	26 N	6 W	BASIN	XTO ENERGY	19940731	20101201	5296	2570	780973	1020	3.24	1034.18	0.19
BREECH F	1F (NPI)	DAKOTA	33	27 N	6 W	BASIN	XTO ENERGY	19990228	20101201	4116	1628	663885	2088	2.23	1059.07	0.51
BREECH A	132R (NPI)	DAKOTA	9	26 N	6 W	BASIN	XTO ENERGY	20010531	20101201	3087	1454	1128535	48449	2.14	2663.71	15.69
BREECH A	136F (NPI)	DAKOTA	10	26 N	6 W	BASIN	XTO ENERGY	20010531	20101201	3445	2698	853163	33820	4.08	1913.61	9.82
BREECH C	144E (NPI)	DAKOTA	12	26 N	6 W	BASIN	XTO ENERGY	19901231	20101201	5998	849	489660	652	0.97	648.45	0.11
BREECH B	147 (NPI)	DAKOTA	7	26 N	6 W	BASIN	XTO ENERGY	20030831	20101201	1281	1276	174534	910	6.07	799.67	0.71
BREECH C	303 (NPI)	DAKOTA	13	26 N	6 W	BASIN	XTO ENERGY	20040930	20101201	2200	1108	345665	723	3.42	954.24	0.33
BREECH E	850 (NPI)	DAKOTA	5	26 N	6 W	BASIN	XTO ENERGY	20040930	20101201	2139	1071	267866	624	2.17	503.42	0.29
BREECH E	65 (NPI)	DAKOTA	5	26 N	6 W	BASIN	XTO ENERGY	20060331	20101201	1709	227	183675	884	0.41	405.40	0.52
BREECH E	79 (NPI)	DAKOTA	1	26 N	6 W	BASIN	XTO ENERGY	20060131	20101201	1601	169	68581	435	0.17	177.89	0.27
BREECH C	392 (NPI)	DAKOTA	13	26 N	6 W	BASIN	XTO ENERGY	20060228	20101201	1761	4304	609403	1582	8.78	1632.76	0.90
BREECH C	828 (NPI)	DAKOTA	13	26 N	6 W	BASIN	XTO ENERGY	20060228	20101201	1786	1149	218741	742	3.26	643.87	0.42
BREECH A	158 (NPI)	DAKOTA	10	26 N	6 W	BASIN	XTO ENERGY	20070531	20101201	1308	176	154887	593	0.18	649.91	0.45
BREECH F	16 (NPI)	DAKOTA	33	27 N	6 W	BASIN	XTO ENERGY	20070630	20101201	1036	438	133802	373	0.44	743.06	0.36
BREECH F	2 (NPI)	DAKOTA	33	27 N	6 W	BASIN	XTO ENERGY	20070531	20100801	1167	1315	200477	955	4.00	872.14	0.82
STATE A	77 (NPI)	DAKOTA	2	26 N	6 W	BASIN	XTO ENERGY	20071130	20101201	1101	374	206370	791	1.27	851.74	0.72
BREECH	228M (NPI)	DAKOTA	18	26 N	6 W	BASIN	XTO ENERGY	19991231	20101201	3855	1691	479453	1032	2.70	891.54	0.27
BREECH	812M (NPI)	DAKOTA	18	26 N	6 W	BASIN	XTO ENERGY	19991231	20101201	3930	1480	480166	780	2.31	906.44	0.20
Average														2.68	944.53	1.72

Modern Mesaverde Wells Drilled after 1990

LEASE NAME	NO.	RESERVOIR	SECTION	TOWNSHIP	RANGE	FIELD	OPERATOR	1st PROD	LAST PROD	DAYS ON	CUMUL	CUMUL	CUMUL	EUR	EUR	AVERAGE
											OIL (BBL)	GAS (MCF)	WATER (BBL)	OIL (MBO)	GAS (MMCF)	WATER (BBL/D)
BREECH	812M (NPI)	MESAVERDE	18	26 N	6 W	BLANCO	XTO ENERGY	19991231	20101201	3928	4684	261521	1210	7.10	479.72	0.31
BREECH	228M (NPI)	MESAVERDE	18	26 N	6 W	BLANCO	XTO ENERGY	19991231	20101201	3857	3588	250402	1261	5.59	450.24	0.33
BREECH E	850 (NPI)	MESAVERDE	5	26 N	6 W	BLANCO	XTO ENERGY	20060630	20101201	1574	681	73056	60	2.25	166.20	0.04
BREECH F	8M (NPI)	MESAVERDE	34	27 N	6 W	BLANCO	XTO ENERGY	19980531	20101201	4378	781	125566	512	0.91	157.81	0.12
BREECH E	118E (NPI)	MESAVERDE	1	26 N	6 W	BLANCO	XTO ENERGY	19961031	20101201	5048	2606	540226	656	4.95	1111.10	0.13
BREECH C	144E (NPI)	MESAVERDE	12	26 N	6 W	BLANCO	XTO ENERGY	19971231	20101201	4462	1890	246010	860	2.77	398.08	0.19
BREECH C	144 (NPI)	MESAVERDE	12	26 N	6 W	BLANCO	XTO ENERGY	19981231	20101201	4313	3851	197881	925	6.73	336.72	0.21
Average														4.33	442.84	0.19

Modern Mancos Wells Drilled after 1990

LEASE NAME	NO.	RESERVOIR	SECTION	TOWNSHIP	RANGE	FIELD	OPERATOR	1st PROD	LAST PROD	DAYS ON	CUMUL OIL (BBL)	CUMUL GAS (MCF)	CUMUL WATER (BBL)	EUR OIL (MBO)	EUR GAS (MMCF)	AVERAGE WATER (BBL/D)
BREECH F	1F (NPI)	MANCOS	33	27 N	6 W	BLANCO	XTO ENERGY	19990228	20101201	4136	10610	558552	16160	13 657	911 895	3 91
STATE B COM	233R (NPI)	MANCOS	16	26 N	6 W	BLANCO	XTO ENERGY	19940731	20101201	5266	6644	1004217	98	8 849	1406 868	0 02
STATE COM	113 (NPI)	MANCOS	2	26 N	6 W	BLANCO	XTO ENERGY	19971130	20101201	3985	12844	275036	363	15 136	493 912	0 09
BREECH A	136 (NPI)	MANCOS	10	26 N	6 W	BLANCO	XTO ENERGY	19980331	20101201	4339	11417	133010	269	12 144	250 247	0 06
BREECH C	144E (NPI)	MANCOS	12	26 N	6 W	BLANCO	XTO ENERGY	19901130	20101201	6270	1118	190895	42	1 118	228 704	0 01
BREECH E	79 (NPI)	MANCOS	1	26 N	6 W	BLANCO	XTO ENERGY	20061130	20101201	1377	141	37084	41	0 141	159 726	0 03
BREECH D	240E (NPI)	MANCOS	15	26 N	6 W	BLANCO	XTO ENERGY	20050930	20101201	1859	2529	288675	75	6 969	910 33	0 04
BREECH E	65 (NPI)	MANCOS	5	26 N	6 W	BLANCO	XTO ENERGY	20071031	20101201	1180	686	73005	74	2 116	311 944	0 06
STATE COM	113E (NPI)	MANCOS	2	26 N	6 W	BLANCO	XTO ENERGY	20060430	20101201	1573	236	80802	240	0 614	244	0 15
BREECH E	850 (NPI)	MANCOS	5	26 N	6 W	BLANCO	XTO ENERGY	20051031	20101201	1762	687	96407	510	1 169	302 888	0 29
BREECH D	685E (NPI)	MANCOS	11	26 N	6 W	BLANCO	XTO ENERGY	20060131	20101201	1802	3794	276060	171	8 836	863 72	0 09
BREECH C	244E (NPI)	MANCOS	14	26 N	6 W	BLANCO	XTO ENERGY	20060228	20101201	1786	4089	317459	86	12 733	934 921	0 05
BREECH A	136F (NPI)	MANCOS	10	26 N	6 W	BLANCO	XTO ENERGY	20040731	20101201	2311	14249	1288401	2352	27 434	3476 366	1 02
BREECH B	147 (NPI)	MANCOS	7	26 N	6 W	BLANCO	XTO ENERGY	20041031	20101201	2258	2460	280919	411	6 146	683 735	0 18
BREECH E	58M (NPI)	MANCOS	3	26 N	6 W	BLANCO	XTO ENERGY	20030731	20101201	2653	5103	298295	86	8 357	937 712	0 03
BREECH D	140M (NPI)	MANCOS	11	26 N	6 W	BLANCO	XTO ENERGY	20051130	20101201	1872	6009	392203	376	10 474	1136 386	0 20
BREECH E	50E (NPI)	MANCOS	5	26 N	6 W	BLANCO	XTO ENERGY	20040131	20101201	2322	5140	260727	127	10 275	740 29	0 05
STATE A	62M (NPI)	MANCOS	2	26 N	6 W	BLANCO	XTO ENERGY	20021130	20101201	2656	3422	205832	216	11 985	654 375	0 08
BREECH C	689M (NPI)	MANCOS	12	26 N	6 W	BLANCO	XTO ENERGY	20031130	20101201	2668	905	177330	112	1 22	269 058	0 04
BREECH F	8M (NPI)	MANCOS	34	27 N	6 W	BLANCO	XTO ENERGY	20021231	20101201	2810	2484	220946	120	4 494	491 283	0 04
BREECH A	132R (NPI)	MANCOS	9	26 N	6 W	BLANCO	XTO ENERGY	20040930	20101201	2246	20885	727681	4069	41 484	2138 046	1 81
Average														9 78	865 64	0 39

Allocations

	Oil	Gas	Water
Dakota	16%	42%	75%
Mesaverde	26%	20%	8%
Mancos	58%	38%	17%

Breech D 685G - 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)	5300	6655	7400
Shut in Casing Pressure (psia)	591	820	1219
Surface Temperature (deg F)	60	60	60
Bottom Hole Temperature (deg F)	136	140	151
Static BHP (psia)	676	974	1494
Fracture Parting Pressure (psia)	3445	4326	4810