DHC

PMAM140 983 9824

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

1220 South St. Francis Drive, Santa Fe, NM 87505



Kristen Babcock@xtoenergy.com

e-mail Address

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 ation Acronyms: [NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication] **Application Acronyms:** [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] -DHC [1] **TYPE OF APPLICATION** - Check Those Which Apply for [A] -XTO ENCUSY Location - Spacing Unit - Simultaneous Dedication 5380 NSL NSP SD Check One Only for [B] or [C] Commingling - Storage - Measurement [B] \boxtimes DHČ \square CTB \square PLC \square PC \square OLS \square OLM $Po\omega$ [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery ☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR [2] [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. WIND Babcock KRISTEN D. BABCOCH 4/2/2014 Print or Type Name Date



382 CR 3100 Aztec, NM 87410 (505) 333-3100 FAX: (505) 333-3280

April 2, 2014

NMOCD Phillip Goetze 1220 South St. Francis Dr. Santa Fe, NM 87505

RE:

Record Clean Up for Downhole Commingle

Harper Hill Fruitland Sand- Pictured Cliffs (78160) & Basin Fruitland Coal (71629) Pools

Area of T30N, R14W San Juan County, NM

Dear Mr. Goetze,

XTO Energy Inc. and the NMOCD Aztec District Office reviewed all of the XTO operated wells within the Haprer Hill Fruitland Sand / PC Pool – located predominately within T30N, R14W, San Juan County NM – that had downhole comingling permits filed and approved through the NMOCD Aztec District Office by previous operators. These wells should have been filed and approved through the Santa Fe NMOCD, due to the fact that they are not pre-approved pools. XTO Energy Inc will be submitting these 12 wells to the Santa Fe NMOCD office for the appropriate approval. Allocations will remain as they were before.

	WELL NAME	API	DHC#	Year Approved	Operator that Submitted
1.	WF Federal 11 #1	30-045-32268	DHC-1923AZ	"2005"	Lance Oil and Gas
2.	WF Federal 25 #1	30-045-30681	DHC-2416AZ	"2007"	Lance Oil and Gas
3.	WF Federal 25 #2	30-045-30713	DHC-1209AZ	"2003"	Richardson Operating
4.	WF Federal 27 #3	30-045-30393	DHC-2138AZ	"2006"	Lance Oil and Gas
5.	WF Federal 03 #1	30-045-30202	DHC-3214AZ	"2009"	XTO Energy
6.	WF State 2 #3	30-045-30759	DHC-1896AZ	"2005"	Lance Oil and Gas
7.	Coolidge #2	30-045-31221	DHC-1076AZ	"2003"	Calpine Operating
8.	Coolidge Com #1	30-045-26184	DHC-1005AZ	"2002"	Calpine Operating
9.	Morton #2	30-045-25766	DHC-1003AZ	"2002"	Calpine Operating
10.	Morton #3	30-045-31215	DHC-1075AZ	"2003"	Calpine Operating
11.	Mr Nona 15 #1	30-045-30318	DHC-2573AZ	"2007"	Lance Oil and Gas
12.	Roosevelt #2	30-045-31222	DHC-1028AZ	"2003"	Calpine Operating

Sincerely,

Kristen D. Babcock Regulatory Analyst

xc: Jackson Dean, Ft. Worth Land

MILL D. Bakcock

<u>District I</u> 1625 N. French Drive, Hobbs, NM 88240

District II 811 S. First St., Artesia, NM 88210

District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division

1220 South St. Francis Dr. Santa Fe, New Mexico 87505 Form C-107A Revised August 1, 2011

APPLICATION TYPE

X_Single Well

Establish Pre-Approved Pools EXISTING WELLBORE

1220 S. St. Francis Dr., Santa Fe, NM 8	7505 AP	GLINGYesNo	
XTO Energy, Inc.		382 CR 3100, Aztec, NM 87410	
Operator MORTON	#2	Address UNIT LETTER I, Sec 23, T30N, R14W	SAN JUAN
Lease	Well No	Unit Letter-Section-Township-Range	County
OGRID No. <u>5380</u> I	Property Code_30499	7 API No. <u>30-045-25766</u> Lease Type:	X_FederalStateFee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	BASIN FRUITLAND COAL		HARPER HILL FRUITLAND SAND PICTURED CLIFFS
Pool Code	(71629)		(78160)
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	1282'-1400'		1409'-1412'
Method of Production (Flowing or Artificial Lift)	ROD/PUMP		ROD/PUMP
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)			
Oil Gravity or Gas BTU (Degree API or Gas BTU)			
Producing, Shut-In or New Zone	PRODUCING		PRODUCING
Date and Oil/Gas/Water Rates of			
Last Production. (Note: For new zones with no production history,	Date: 1/1/14	Date:	Date: 1/1/14
applicant shall be required to attach production			
estimates and supporting data.)	Rates:O:0/G:1992MCF/ W:3088	Rates:	Rates: O:0/G:595MCF/W:922
Fixed Allocation Percentage (Note: If allocation is based upon something other	Oil Gas	Oil Gas	Oil Gas
than current or past production, supporting data or explanation will be required.)	77 % 77 %	% %	23 % 23 %

ADDITIONAL DATA

Are all working, royalty and overriding royalty interests identical in all commingled zones? If not, have all working, royalty and overriding royalty interest owners been notified by certified mail?	Yes_ Yes_	<u>X</u> _	No No
Are all produced fluids from all commingled zones compatible with each other?	Yes_	X	No
Will commingling decrease the value of production?	Yes_		No_ X
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_	<u>X</u> _	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 working, royalty and overriding royalty interests for uncommon interest cases. Any additional statements, data or documents required to support commingling.			

PRE-APPROVED POOLS

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.							
I hereby certify that the information above is true and complete to the best of my knowledge and belief. SIGNATURE TITLE REGULATORY ANALYST DATE 4/2/14							
TYPE OR PRINT NAME KRISTEN D. BABCOCK TELEPHONE NO. (505) 333-3206							
F-MAIL ADDRESS kristen babcock@xtoenergy.com							

•	/				
Submit 3 Copies To Appropriate Dist	trict State of	of New Mexico			Form C-103
Office District I	Energy, Minera	ls and Natural Resource	es Trues y A		sed March 25, 199
1625 N. French Dr., Hobbs, NM 882 District II			WELL All 30-045	5-25766	
1301 W. Grand Avenue, Artesia, NM	100210	RVATION DIVISION	5. Indica	te Type of Lea	se
District III 1000 Rio Brazos Rd., Aztec, NM 874	410	uth St. Francis Dr.			FEE 🗆
District IV 1220 S. St. Francis Dr., Santa Fe, NA		Fe, NM 87505	6. State	Oil & Gas Le	ase No.
SUNDRY	NOTICES AND REPORTS	ON WELLS	A 70 Lease		Agreement Nam
(DO NOT USE THIS FORM FOR P DIFFERENT RESERVOIR. USE "A PROPOSALS.)	ROPOSALS TO DRILL OR TO D.	EEPEN OR PLOG BACK TO A	Mogan		
1 110- 00-1-00	AT DICATION FOR T DAME. (1)	Bec	2002		
1. Type of Well: Oil Well Gas W	ell 🗸 Other	Of CO	Carrier Control		
2 Name of Operator	Ipine Natural Gas Co		8. Well	No.	
	·		#2.9	name or Wild	cat
3. Address of Operator	200 17th Street, STE	770, Denver 20,8	208	name or who	
4. Well Location					
Unit Letter	: 1850feet from t	he South line as	nd 1100	feet from the	East lin
Section 23	Township		NMPM	Com	_{nty} San Juan
Section 23		w whether DR, RKB, RT,		Cour	ily Gair Gaar
	eck Appropriate Box to	Indicate Nature of No			
NOTICE C	NE INITENITIONI TO:				
	OF INTENTION TO:		SUBSEQUEN		
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1625 N. French Dr., Hobbs, NM 88240

1301 W. Grand Avenue, Artesia, NM 88210

1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Form C-102

Revised August 15, 2000

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

District IV.				Santa Fe, NI	M 87505			•		
220 S. St. Francis	Dr., Santa F	e, NM 8750:	5					☐ AME	NDED REPORT	
			WELL LC	CATIO	N AND ACR	EAGE DEDIC	ATION PLA	ТТ		
1,	Number	•		² Pool Code ³ Pool Name			me			
30-	045-257	56		86620	TWIN MOUNDS PICTURED			TURED CLIFF	S	
⁴ Property (Code				5 Property !	Vame		•,	Well Number	
03045	4				MORT	ON			#2	
OGRID !	No.				Operator !	Name			, Elevation	
21427	4		C	ALPINE	NATURAL G	AS COMPANY,	L.P.		5716'	
					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	
I	23	301	N 14W		1850'	FSL	1100'	FEL	San Juan	
			¹¹ Bo	ottom Ho	le Location I	f Different From	m Surface			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
									<u> </u>	
12 Dedicated Acre	s 13 Joint o	r Lafiii 14	Consolidation	Code 15 O	rder No.					
160		- 1								
NO ALLOW	ABLE WI	LL BE A	SSIGNED 7	O THIS C	OMPLETION L	INTIL ALL INTE	RESTS HAVE E	BEEN CONSOLIT	DATED OR A NO	
						ADDDOVED BY				

N-OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and Production Manager Title 11/1/02 Date 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. Date of Survey Signature and Seal of Professional Surveyor. Certificate Number

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210

District III 1000 Rie Brazos Rd., Aztec, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

¹ API Number

30-045-25766

Property Code

State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION 1220 South St. Francis Dr.

Santa Fe, NM 87505

⁵ Property Name

² Pool Code

71629

Form C-102

Revised August 15, 2000

Submit to Appropriate District Office

State Lease - 4 Copies

Well Number

Fee Lease - 3 Copies

● ■ AMENDED REPORT
WELL LOCATION AND ACREAGE DEDICATION PLAT

BASIN FRUITLAND COAL

030454 MORTON							#2				
OGRID	Vo.	⁸ Operator Name								, Elevation	
21427	4		C	CALPINE NATURAL GAS COMPANY, L.P.					5716'		
					10 Surface	Location					
UL or lot no.	Section	Township	Range	Lot Ic			Feet from the	East/W	Vest line	County	
I	23	30	1		1850'	FSL	1100'		FEL	San Juan	
				ttom U		f Different From				7-1-1	
UL or lot no.	Section	Township	Range	Lot Is	in Feet from the	North/South line	Feet from the	Fact/U	Vest line	County	
	500.00	10	Kange	2	Yeer don't de	1101 th South line	reet it out the	Elast V	vest mie	County	
12 Dedicated Acre	Joint o	r Infill	⁴ Consolidation	Code 15	Order No.						
320			C013011211011		014611146						
				L							
16							I hereby c is true and belief. Sabature Hugo Car Printed Name Production Title 11/1/02 Date 18 SUR I hereby c plat was p made by same is tr	VEYOR sertify that the sertify that the colotted from flume or under more and correct	CERT well loca eld notes by supervisit to the best of	TIFICATION on contained herein my knowledge and in the contained herein my kno	
				6			Certificate N	Vursber			
		1		3 5			1 .				

Recompletion Procedure for

Calpine Natural Gas Company Morton #2

Location: SE/4 Sec 23 T30N R14W Date: October 25, 2002

San Juan County, NM

Field: Basin Dakota Elev: GL 5703'

Recomplete in Twin Mounds PC and Basin Fruitland Coal KB 5716'

Surface: BLM 4-1/2" @ 6241'

Minerals: BLM NM-26357 DV Tool @ 4278'

DK Perfs 5984' - 6125'

Plug Dakota Procedure:

 Dig workover pit. Set and fill 2 frac tanks with city water and heat to 80 degrees. Check for anchors. Set pump jack. MOL and RU completion rig. Hold safety meeting.

- 2. NU 2-3/8" relief line. Blow well down and kill with water if necessary.
- 3. ND tubing head and pull tubing slips. NU BOP. Pick up additional joints (198' 6 jts) of 1-1/2" EUE tubing and TIH to approximately 6148' KB. The 1-1/2" tubing is currently landed at 5950' KB.
- 4. Pump Plug #1 Dakota. Spot 50 sx (59 cu.ft.) of Cl "B" neat cement from 6148' to approximately 5826'. Cement is designed to cover from the base of the Dakota perfs to 100' above the top Dakota perf with 100% excess.
- 5. TOH (standing back) 1-1/2" EUE tubing to approximately 5300' KB and WOC 4 hrs. TIH and verify cement top.
- 6. Load hole with water. TOH (laying down) to approximately 5220' KB.
- 7. Pump Plug #2 Gallup Spot 15 sx (18 cu.ft.) of Cl "B" neat cement from approximately 5221' KB to approximately 5071'. Cement is designed to cover 100' above and below the Gallup top.
- 8. TOH (laying down) to approximately 3892' KB.
- 9. Pump Plug #3 Mesa Verde. Spot 100 sx (118 cu.ft.) of Cl "B" neat cement from approximately 3892' KB to approximately 2525'. Cement is designed to cover 100' below the Point Lookout top and 100' above the Cliff House top.
- 10. TOH (laying down) the 1-1/2" tubing to approximately 2000'. Load hole with fresh water and pressure test the casing to 1500 psi. Finish TOH. Should have a total of 190 jts of 1-1/2".

Complete Pictured Cliffs

- 11. Rig up Wireline truck and run GR/CCL from 1700' to 1000'. Perforate 4 spf (0.38" holes) from 1405' to 1415'. Total of 40 holes. Depths refer to the open-hole logs.
- 12. Rig up frac equipment and pressure test surface lines.

13. Fracture with 50,000# of 20/40 Brady sand in a 25#/1000 gal cross-inked gel fluid. Pump rate at 50 BPM and expected treating pressure is 2000 psig. Max treating pressure is 3500 psig. Treat with the following schedule if pressure permits: (would prefer to ramp sand)

Stage	Gel Vol. (Gals.)	Sand Vol. (lbs.)
Pad	7,000	0
1.0 ppg 20/40	3,000	3,000
2.0 ppg 20/40	5,000	5,000
3.0 ppg 20/40	5,000	10,000
4.0 ppg 20/40	5,000	20,000
4.0 ppg 20/40	Resin 3,000	12,000
Flush	997	0
Total	28,997	60,000

- 14. Close BOPs. RD frac company and install flow line with 1/4" ceramic choke. Flow well back to pit overnight.
- 15. When well dies, TIH with sand bailer on 2-3/8" EUE tubing and clean out to PBTD or 300' below the lowest perf. TOH and lay down bailer.

Complete Fruitland Coal

- 16. Rig up Wireline truck and run drillable bridge plug. Set at 1402'. Perforate 4 spf (0.38" holes) from 1380'-1390' and 1393'-1398'. Total of 60 holes. Depths refer to the open-hole logs.
- 17. Rig up frac equipment and pressure test surface lines.
- 18. Fracture with 50,000# of 20/40 Brady sand in a 25#/1000 gal cross-linked gel fluid. Pump rate at 50 BPM and expected treating pressure is 2000 psig. Max treating pressure is 3500 psig. Treat with the following schedule if pressure permits: (would prefer to ramp sand)

Stage	Gel Vol. (Gals.)	Sand Vol. (lbs.)
Pad	7,000	0
1.0 ppg 20/40	3,000	3,000
2.0 ppg 20/40	5,000	5,000
3.0 ppg 20/40	5,000	10,000
4.0 ppg 20/40	5,000	20,000
4.0 ppg 20/40	Resin 3,000	12,000
Flush	997	. 0
Total	28,997	60,000

- 19. Close BOPs. RD frac company and install flow line with 1/4" ceramic choke. Flow well back to pit overnight.
- 20. When well dies, TIH with sand bailer on 2-3/8" EUE tubing and clean out to RBP. TOH and lay down bailer.
- 21. TIH and drill out bridge plug.

- 22. TIH with tail joint, 4' perforated sub, and seating nipple, on 2-3/8", 4.7#, J-55, EUE 8rd tubing and set the seating nipple below the deepest perforation. ND BOP and NU tubing head.
- 23. Run a 2" X 1-1/2" X 12' RWAC pump on %" rods. Space out the pump and hang off the rods. Start the pump jack and check for pump action.
- 24. Rig down and release rig. First deliver well.