DATE IN	//30//0 SUSPE	NSE ENGINEER TW, LOGGED IN 2//30//C TYPE TPT APP NO. TO12046/93
		ABOVE THIS LINE FOR DIVISION USE ONLY Nash Unit #29
		- Engineering Bureau -
		1220 South St. Francis Drive, Santa Fe, NM 87505
		ADMINISTRATIVE APPLICATION CHECKLIST
TH	HIS CHECKLIST IS I	MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATION WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE
- thur	[DHC-Dow [PC-Po	ndard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication] nhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] ool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
[1]	TYPE OF A [A]	alified Enhanced Oil Recovery Certification] [PPR-Positive Production Response] 7 PPLICATION - Check Those Which Apply for [A] Image: Constraint of the second
	Checl [B]	k One Only for [B] or [C] Commingling - Storage - Measurement DHC CTB PLC PC OLS OLM
	[C]	Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
	[D]	Other: Specify Increase Surface Pressure
[2]	NOTIFICAT [A]	TION REQUIRED TO: - Check Those Which Apply, or □ Does Not Apply □ Working, Royalty or Overriding Royalty Interest Owners
	[B]	X Offset Operators, Leaseholders or Surface Owner(Potash – Mosiac)
	[C]	Application is One Which Requires Published Legal Notice
	[D]	X 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 tha**tno action** will be taken on this application until therequired information and notifications are submitted to the Division.

uty Wavel

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

int or Type Name

Distribution OCD-Sunta Fe DCD District Artesia Bim-Carlshad Moslac

Regulatory tralyst 4/23/10 Date Knisty - Worde Xtoerergy-com e-mail Address

Submit 3 Copies To Appropriate District State of New Mexico Office Energy, Minerals and Natural Resources	Form C-103 June 19, 2008
District 1 1625 N. French Dr., Hobbs, NM 87240	WELL API NO.
District II OIL CONSERVATION DIVISION	30-015-29434
1301 W. Grand Ave., Artesia, NM 88210 District III	5. Indicate Type of Lease
1000 Rio Brazos Rd., Aztec, NM 87410 Santa Fe, NM 87505	STATE 🗌 FEE 🗌
District IV	6. State Oil & Gas Lease No.
1220 S. St. Francis Dr., Santa Fe, NM 87505	
SUNDRY NOTICES AND REPORTS ON WELLS	7. Lease Name or Unit Agreement Name:
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO	DA Nash Unit
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well:	8. Well Number
Oil Well X Gas Well Other	29
2. Name of Operator	9. OGRID Number
XTO Energy, Inc.	005380
3. Address of Operator	10. Pool name or Wildcat
200 N. Loraine, Ste. 800 Midland, TX 79701	Nash Draw; Delaware/BS (Avalon Sand)
4. Well Location	
Unit Letter	2310' feet from the East line
Unit Letter <u>J</u> : <u>1980'</u> feet from the <u>South</u> line and	
Section 13 Township 23S Range 29E	NMPM County Eddy
11. Elevation (Show whether DR, RKB, RT, G	R, etc.)
	· · · · · · · · · · · · · · · · · · ·
12. Check Appropriate Box to Indicate Nature of Noti	ica Papart or Other Data
12. Check Appropriate Dox to indicate relative of roth	ice, Report, of Ouler Data
NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
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r.

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April 19, 2010

Mosaic Potash Carlsbad Inc. Attention: Mr. Don J. Purvis, General Manager P.O. Box 71 1361 Potash Mines Road Carlsbad, NM 88221-0071

Re: Nash Unit Well No 29 Eddy Co., New Mexico

Gentlemen:

Enclosed is one (1) copy of the Sundry Notice and Step Rate Test requesting an increase in the well head injection pressure of the reference well. As of January 29, 2009 the surface injection pressure was limited to no more than 638 psig into the Delaware Mountain Group perforations from 3192 feet to 3786 feet.

This step rate test was performed on April 8, 2010 and based on the results of this test, no formation parting pressure was realized. The maximum surface pressure realized during this test was 979 psig. Therefore the requested higher surface injection pressure of 979 psig will not result in any migration of the injected fluid from the predescribed perforations.

In addition, XTO plans to run an injection tracer survey in the very near future at the current pressure limit of 638 psig. In addition if permission is granted to increase surface injection pressure limit to 979 psig, a second injection tracer survey will be ran within 3 months of approval date of new pressure limitation.

If you have any further questions or issues, please feel free to contact Guy Haykus at (432) 620-6705. We appreciate your cooperation in this matter.

Sincerel

Kýle-Hammond Vice President, Operations Permian Division

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Form 3160-5 (April 2004)	DEPARTMEN	TED STATES			ON Exp	DRM APPROVED //B NO. 1004-0137 ires March 31, 2007
					5. Lease Seri	al No.
	SUNDRY NOTICES				NM-17589	11-14
	Do not use this form for abandoned well. Use For				6. II Indian, A	llottee or Tribe Name
	SUBMIT IN TRIPLICATE -	Other instructions	s on reverse side		7. If Unit or C Nash Unit	CA/Agreement, Name and/or No
1. Type of Well X Oil Well 2. Name of Opera	Gas Well Other				8. Well Name Nash Unit	
XIO Energy	Inc.				9. API Well N	
3a. Address			3b. Phone No. (include are	a code)	30-015-29	
	aine, Ste. 800 Midland,		432-620-6740			Pool, or Exploratory Area
	(Footage, Sec., T., R., M., or Survey)				Nash Draw (Avalon S	; Delaware/BS
	J, Section 13, T-23S, R-2 & 2310' FEL, Eddy Co., NM					r Parish, State
1900 1901	a 2310 FEEL, Eddy CO., N.	L			Eddy Coun	•
12	CHECK APPROPRIATE	BOX(ES) TO INE	CATE NATURE OF N	IOTICE, REP		
TYI	PE OF SUBMISSION		TYP	E OF ACTION		
	······	 ┌──┐			<u> </u>	
(X)	Notice of Intent	Acidize	Deepen		(Start/Resume)	Water Shut-Off
[]	Subsequent Report	Alter Casing	Fracture Treat	Reclamatio	n	Well Integrity
		Casing Repair	New Construction	Recomplet		X Other Surface
	Final Abandonment Notice	Change Plans	Plug and Abandon	Temporaril	y Abandon	Pressure Increase
		Convert to Injection	Dn Plug Back	Water Disp	osal	<u> Order # - SWD-1157</u>
Attach the following cr testing has determined 4/8/10	sal is to deepen directionally or recomp Bond under which the work will be per ompletion of the involved operations. I been completed. Final Abandonment h that the final site is ready for final inspec Based on the order SWD-11 is 638 psi. XTO, as operat the step rate test, no for realized during the test injected fluid from the p Therefore XTO respectfull Step Rate test performed	formed or provide the f f the operation results in Notices shall be filed on tion.) 57 issued on Jan tor, performed a mation parting of 979 psi. This predescribed Bell y requests appro-	Bond No. on file with BLM/I n a multiple completion or re- ly after all requirements, incl muary 29, 2009, the a valid step rate t pressure was reali s higher pressure w l Canyon member as poval of a surface p	BIA Required s completion in a r uding reclamatio e maximum su est on well zed up to t ill not res previously ressure inc	ubsequent report new interval, a F n, have been co urface inje . on April he maximum sult in any approved h crease up t	ts shall be filed within 30 days form 3160-4 shall be filed once ompleted, and the operator has ection pressure 8, and based on a surface pressure migration of the my the order.
	y that the foregoing is true and correct Typed) Ev Ward Ay Ward THIS	SPACE FOR FED	Title Regulat Date 04/14/10 ERAL OR STATE OFF	ory Analyst	=	
Approved by			Title			ate
	rough if any an attached America	f this potion door -ot				·····
certify that the ap which would entit	roval, if any, are attached. Approval o plicant holds legal or equitable title to the applicant to conduct operations the	those rights in the subj ereon.	ect lease	<u></u>		
	ection 1001, and Title 43 U.S.C. Sectio			nd willfully to ma	ke to any depar	tment or agency of the United

Attn: BILL Jones - Santa Fe

To Whom It May Concern:

RECEIVED OCD

Subject: Nash Unit #29 SWD – 30-015-29434 Order # SWD-1157 Surface Pressure Increase

2010 APR 19 P 1: 32

I am attaching a sundry requesting permission to increase our original injection rate per the Step Rate Test.

Thank You,

Kristy Ward XTO Energy, Inc. 432-620-6740

Attachments

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Must notify Mosaic Potent Novy, 2009 Must notify Retter dated Novy, 2009 and per Mr Hammond's ** copies have been sent to the OCD District Office – Artesia, NM &

Submit 3 Copies To Appropriate District	State of New Mexico		Form C-103
Office	Energy, Minerals and Natural R		June 19, 2008
District I 1625 N. French Dr., Hobbs, NM 87240 District II	OIL CONCEDUATION DI	WELL API NO). 015–29434
1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION DI 1220 South St. Francis		
District III 1000 Rio Brazos Rd., Aztec, NM 87410	Santa Fe, NM 87505	DI. STATE	·
District IV 1220 S. St. Francis Dr., Santa Fe, NM	Santa 1 0, 1010 07000	6. State Oil &	Gas Lease No.
87505			
(DO NOT USE THIS FORM FOR PROP	CES AND REPORTS ON WELLS DSALS TO DRILL OR TO DEEPEN OR PL CATION FOR PERMIT" (FORM C-101) FO	UGBACKTOA Moch Thit	e or Unit Agreement Name:
I. Type of Well: Oil Well 🕱 Gas Well 🗌	Other	8. Well Numb	er 29
2. Name of Operator		9. OGRID Nur	
XIO Energy, Inc.			005380
3. Address of Operator		10. Pool name	
200 N. Loraine, Ste. 800	Midland, TX 79701		Delaware/BS (Avalon Sand)
4. Well Location			
Unit LetterJ:	1980' feet from the South	line and2310 ' feet	from the <u>East</u> line
Section 13	Township 235 Rang	e 29E NMPM	County Eddy
	11. Elevation (Show whether DR, I		
	а 2	21 p.	
12. Check A	ppropriate Box to Indicate Natu	re of Notice, Report, or Oth	ner Data
NOTICE OF INT	ENTION TO:	SUBSEQUENT F	REPORT OF:
			ALTERING CASING
			PANDA [
		ING/CEMENT JOB	
OTHER: Surface Pressure Incre	ase-Order SWD-1157 X OTH	IER:	
	d operations. (Clearly state all pertinen SEE RULE 1103. For Multiple Com		
	der SWD-1157 issued on January , as operator, performed a val:		
	e test, no formation parting pr	-	
	ed during the test of 979 psi.	-	
—	e injected fluid from the prede		-
	herefore XIO respectfully reque		
979 psi. The St	ep Rate test performed by Card:	nal Surveys is attached fo	or your review.
Spud Date:	Rig Release Da	ite:	
hereby certify that the information	bove is true and complete to the best	of my knowledge and belief.	
A insta h	ard TITLE		
SIGNATURE USEN IO		Regulatory Analyst	DATE 04/14/10
		cisty_ward@xtoenergy.com	DUCNE 400 COA
Type or print name <u>Kristy Ward</u>	E-mail ac	dress:	PHONE <u>432-620-6740</u>
For State Use Only			
·			
APPROVED BY	TITLE		DATE

						_				
С	on	dit	tion	s of	A	ppro	val	(if	any):

Warnell, Terry G, EMNRD

To: Subject: Kristy_Ward@xtoenergy.com RE: FW: OCD Administrative Application Checklist needed for Nash Unit Well No. 29

Thanks Kristy There is one other thing I need verification that Mosaic Potash was notified of this IPI as per Mr. Hammond's letter dated Nov4, 2009

From: Kristy_Ward@xtoenergy.com [mailto:Kristy_Ward@xtoenergy.com]
Sent: Tuesday, April 20, 2010 9:28 AM
To: Warnell, Terry G, EMNRD
Subject: Re: FW: OCD Administrative Application Checklist needed for Nash Unit Well No. 29

Mr. Warnell...attached is the requested form. Please let me know if there is anything else you need.

Kristy Ward | XTO Energy | Regulatory Analyst

200 N. Loraine | Midland, TX 79701 | 🕿: 432-620-6740 | 🎰: 432-618-3527 | 🖂: kristy_ward@xtoenergy.com

 "Warnell, Terry G, EMNRD" < Terry G.Warnell@state.nm.us>
 To < kristy_ward@xtoenergy.com</td>

 04/20/2010 09:17 AM
 To
Subject FW: OCD Administrative Application Checklist needed for Nash Unit Well No. 29

1

Hi Kristy,

OCD/Will Jones just received your paper work for the Nash Unit Well No. 29 What we didn't get was the OCD Administrative Application Checklist Please send or fax me a signed and completed Administrative Application Checklist for this application <u>http://www.emnrd.state.nm.us/OCD/documents/AdminApplicationChecklist20090826.DOC</u>

Thank you,

Terry G. Warnell <u>TerryG.Warnell@state.nm.us</u> New Mexico Oil Conservation Division 1220 South St. Francis Santa Fe, NM 87505

Step Rate Test

N 46 8

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Cardinal Surveys Company

8-Apr-10

XTO Energy Well: Nash Unit No. 29 Field; County: Eddy County NM

SC59193 File No. 19,799

NO PARTING PRESSURE WAS DETECTED

Downhole	PSI Tool Ser. No.	CSC2601
Surface P	SI Gauge Ser. No.	10213
Tool @	3,400'	

	Start	End	Rate
1	7:25 AM	9:15 AM	0 At 3,400'
2	12:00 PM	12:30 PM	400
3	12:30 PM	1:00 PM	200
4	1:00 PM	1:30 PM	300
5	1:30 PM	2:00 PM	400
6	2:00 PM	2:30 PM	500
7	2:30 PM	3:00 PM	700
8	3:00 PM	3:30 PM	900
9	3:30 PM	3:45 PM 1	15 MIN. Fall-Off
10			

MAXIMUM PUMP RATE FOR TRUCK WAS 4800 BPD

13 14 15

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12

16 17

18

Step Rate Test 8-Apr-10 XTO Energy Well: Nash Unit No. 29 Field: Location: Eddy County NM



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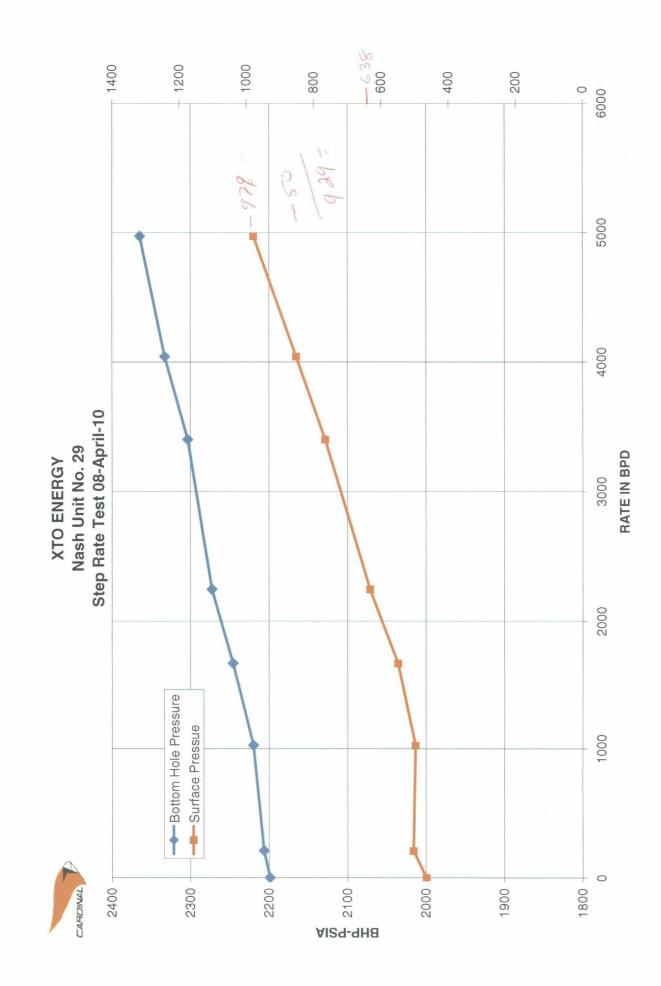
.<u>3 8 ar</u>.

			D Time	Last Rate	Step	внр	Surf	Cum	Delta	Avg.	Lower	-
	S Time			BPD	ВРD	PSIA	PSIA	BBL	BBL	вро	Trend	•
	7:25 AM			0	0	2198.5	464.8	0	0	0		
2	12:00 PM			400	400	2206.2	503.5	4.4	4.4	211		
ო	12:30 PM			800	400	2219.9	497.5	25.8	21.4	1027		
4	1:00 PM	1:30 PM	30	1600	800	2245.7	549.6	60.7	34.9	1675		
ഗ	1:30 PM			2400	800	2272.5	632.6	107.5	46.8	2246		
9	2:00 PM			3200	800	2303.3	766	178.4	70.9	3403		
~	2:30 PM			4000	800	2332.7	852.2	262.6	84.2	4042		
8	3:00 PM			4800	800	2364.4	679	366.2	103.6	4973		
თ	3:30 PM			0	0	2289.4	566.8					
₽												

Upper Trend

MAXIMUM PUMP RATE FOR TRUCK WAS 4800 BPD

intersect #DIV/0! BPD BHP PSI #DIV/0! PSIA





Total Data Chart Nash Unit No. 29

