Submit to Appropriate District Office Five Copies					State of New Mexico Chick Minerals and Natural Resources					Form C-105 July 17, 2008						
District I 1625 N. French D District II			2.10							1. WELL API NO. 30-025-30512						
1301 W Grand Avenue, Artesia, NM 88210 FEB 06 CONSERVATION DIVISION District III. 1000 Rio Brazos Rd., Aztec, NM 87410 1220 South St. Francis Dr.								,	2. Type Of Lease							
1000 Rio Brazos Rd., Aztec, NM 87410 1000 Rio Brazos Rd., Aztec, NM 87505 1000 Rio Brazos Rd., Aztec, Rd., A										CATE FEE FED/INDIAN Oil & Gas Lease No.						
WELL COMPLETION OR RECOMPLETION REPORT AND LOG																
4. Reason for filing: COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only)									5. Lease Name or Unit Agreement Name Eunice Monument South Unit							
COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only) C-144 CLOSURE ATTACHMENT (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19 15 17.13 K NMAC) 6 Well Number 643																
9. Type of Cor	npletion				DEEPENING					l	r					
8. Name of Op	erator		ORKOVER	<u>. L_J J</u>	DEEPENING	LAI PLUGI	BACK L	_ DIFFER	CENT	RESERV	9 OGRII	OTH O Nu				
XTO Ener		•									00538		e or Wilde	at .		
200 N Lo	-	Ste	. 800	Midl	and, TX	79701					11. Pool name or Wildcat Eunice Monument; Grayburg-San				n Andre	
12. Location Surface.	Unit Le	tter	Section		Township	Range	L	ot	+	from the	N/S Line	Fe	et from the	1		У
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13. Date Spudo 2-9-89	led 1		e T.D Reacl	hed	15 Date Ri 3-25-	-		1			Ready to Pro	duce	e) 17. RT,	Elevation GR3547	s (DF & F	KB,
18. Total Meas	18. Total Measured Depth of Well				19. Plug Back Measured Depth				04-08-08 20 Was Directional Su				21. Type			
5236' MD 8				n - Top,	3955 ' Bottom, Nam	e		<u> </u>					<u>l</u>			
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3848' - 3936'					<u> 3848 ' - 3936 '</u>				Sqzd 5-1/2" csg leak fr 41'-46' w/50 sks class "C" & 2% CaCl @ 1.							
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28. Date First Produ	otion.		I Dun da se	ian Ma	Aland (Elanon		ODUC							<u></u>		
NA	ction		Product	ion Me	thod (Flowing	z, gas ıyı, pı	ımpıng - S	ize ana typ	е ритр	<i>)</i>)			Injec	itus (Prod. t	or Shut-in	
Date of Test NA		Hour	s Tested	C	Choke Size	Prod'n For		Oil - Bbl.		Gas - MO	CF W	/ater	- Bbl	Gas -	Oil Ratio	
Flow Tubing Press			Calculated 24- Hour Rate	Oil - Bbl.		Gas - MCF Wat		er - Bbl.		Oil Grav	Oil Gravity - API -(Corr.)					
29. Disposition	of Gas (S	Sold, u	sed for fuel,	vented,	etc.)	1					30.	Test	Witnessed	Ву		
31. List Attachr	ments										I					}
32. If a tempora	ry pit was	used a	at the well, a	ttach a	plat with the lo	ocation of the	e temporar	y pit.								
33. If an on-site				•		Latituc	le			Longi				NAD.	1927	1983
I hereby certiff Signature	with	SW	ard		Printe	ed		<i>d complet</i> y Ward	e to th	he best of		_		ef		07/09
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INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

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UPDATED WELLBORE DIAGRAM

FIELD: EMSU WELL NAME: EMSU 643 FORMATION: Grayburg **CURRENT STATUS: Shut-in Producer** LOC: 1275' FSL & 1275' FEL SEC: 6 GL: 3577' (DF) API NO: 30-025-30512 TOWNSHIP: 21S COUNTY: Lea KB: 3590' CHEVNO: IQ5854:01 RANGE: 36E Unit B STATE: NM DF: Date Completed: 6-89 Initial Production: 4 BOPD / 104 BWPD / GOR 15,000 Initial Formation: Grayburg From: 3848' To: 4020' Completion Data: Sqz'd 5-1/2" csg leak w/ 50 sx Perf 4002-06 & 4010-20 w/ 2 JHPF Trtd w/ 400 gal 15% NeFeA Swb 0 BO/24 BW 1 hr , 6 hr swb 2 BO/23 BW, FFER = 1 1 BPH Perf 3898-3902, 3906-40, 3944-48, 3968-82 w/ 2 JHPF ACDZ 3898-3948 w/ 3150 gal 15% NeFeA & 224 f/ 41'-46'. RCNBs Swb tst perf 3898-3982, rec 5 BO/ 128 BW FER 16 BPH Put on pump Tst 5 BO/ 82 BW/ 51 MCFPD REACDZ perf 4002-22, 3968-82 in comm. w/ upper perfs. Ran temp & tracer survey. Indicated channel fr bottom. SQZ 3990-4020 8-5/8", 24#/ft, Surf. Pipe w/ 50 SX D/O cmt ACDZ all open perfs w/ 3250 gal 15% NeFeA in 4 stages using GRS block Test 3 BO/ 63 BW/ 51 set @ 1224' w/ 800 SX CMT. TOC @ Surf' by circ. Workover History: Cmt. Circ.? Yes 5/89 Set RBP @ 3985', pkr @ 3954' Swb z4 (3968-82), rec 105 BW, 5 runs EFL 3900' Swb 9 BW 5 runs. EFL=3900' Set RBP 3954', pkr @ 3879' Swb z3 (3898-3948) 5 BW, 3 runs EFL=3800' FER= 3 BPH Set RBP @ 3985', pkr @ 3954' Pmp 100 BBL red dye wtr in ann. Swb z4, rec 10 BBL red water Ran prod tubina 6/89 PB w/ sd to 3990' Set CICR @ 3848' SQZD z3 (3898--3948) w/ 200 SX CO, D/O to 4040'. Perf 3848-52, 3854-56, 3860-64, 3870-72, 3881-85, 3898-3902, 3906-26, 3968-82, 4002-06 & 4010-22 (2 JHPF) Selectively ACDZ perfs 3898-4022 w/ 1550 gal 15% NeFeA, swb - Fe=0 ReACDZ w/ 1600 gal 112 JTS 2-3/8" 4.7#, J-55 EUE IPC gelled 15% NeA & RCNBs Swb 39 BW FeR = 8 BPH Swb 9 BW EFL=3600' FeR = 0 ACDZ 3845-85 w/ tbg (TK-70), AS1-X PKR 1200 gal 15% NeFeA & RCNBs Swb 35 BW, EFL=3500, swb 28 BW 4 hrs EFL=3600' Put on prod Test w/ T-2 on/off tool w/ 1.781 "F" 4 BO/104 BW/ 60 MCFPD FL=0 Chemical squeeze on 7/89 and on 3/90. PN w/ WL entry guide 4/91 Perf 3778-86, 3822-26, 3834-38 w/ 2 JHPF ACDZ new perfs w/ 1500 gal 15% NeFeA Final swb 5 Landed @ 3655'. BBL in 3 runs IFC=15% oil FFC=Tr oil Ret to prod Test 1 BO/ 136 BW/ 21 MCFPD FL @ 3N 12/92 Install larger pumping unit Tst 0 BO/225 BW/ 11 MCFPD, FL=0 SI w/o well study 8/93 Perf 3697-3706, 3710-26, 3728-32, 3742-48, 3750-54, 3768-70, 3778-86, 3786-96, 3800-07, 3810-15 (2 JHPF) ACDZ w/ 4250 gal 15% NeFeA & 426 RCNBs Swb 64 BW & 77 BW, test 15 BO/ 697 BW/ 36 MCFPD B14 = \$1 6/96 Run gauge ring 3400-3980 Set CIBP @ 3958' Set CICR @ 3679' SQZD perfs 3697-3948 w/ 38 BBL CMT SQZD to 1200 psi & 150 SX D/O cmt to 3958, no cmt last 16' Cut 5-1/2" csg w/ section mill @ 3843' (top) - 3875/ w/ Enterra C-75 section mill Set kick-off plug f/ 3939-3688 Drill/dress off plug f/ 3688-3848' GIH w/ gyro, run surveys Time driff 3848-3912' 4-3/4" hole (curved section outside the csg.) (42 5-1/2", 15.5#/ft, csq set @ degree incline @ 3910') GIH w/ pkr, set @ 3809' Attempt to pmp in to OH Inj rate = 0 33 BBL @ 1000 4050' w/ 800 sxs cmt. psi Did not pmp Marascal for perm streaks in bend z2 Cont'd drilling curve Horiz @ ~4017-4048' TOC @ Surf. by calc. (incl=88 4-91 8 degrees). MD TVD = 3936 7' Cont'd drilling 4314' horiz to 5236' MD (TVD=3871 9') STIM horiz, sect w/ 5000 gal Resisol II & 60000 gal 15% NeFeA w/ Rotojet wash tool on coil tbg. Retrt in Cmt. Circ.? Yes QN 3 wks N2 jetted 5-1/2" csg @ 500 scf/m, hit ledge w/ coil tbg going thru bend. Work, no success. GIH w/ 10' stiff straight bar & 90g jet tool. Went thru bend OK, trtd horiz. w/ 1000 gal 30% methanol & water. Put PNR on prod w/ KUDU 8/96 Pump 450 bbls clean plug to plug horizontal section. Drill out kickoff 3842-48. DRLG cmt to 3955. 3697-3706 D/O CIBP ACDZ w/ 1500 gals 15% AntiSludge HCI, swb RIH w/ PE RTP 3710-26 3/08 Convert well to injector RIH w/ bit & scraper to KOP @ 3842' Circ TCA w/ 100 BFW w/ 50 gals Ru 3728-32 2264, comm out surf valve Sqz'd 5-1/2" csg leak f/ 41'-46' w/ 50 sx cmt, circ 2 sx to pit DO cmt RIH w/ е 3742-48 injection equipment Inj pkr set @ 3655' ęz **Z**1 3750-54 е 3768-70 PROD LOG 4/89 - major oil & water entry 3935-40, 88 BFPD up, 290 BFPD crossflow down to 3968-82' d Major gas entry @ 3900' 3778-96 w/ 3800-07 Milled section 3843-3875 3 Additional Data: 3810-15 8 T/Queen Formation @ 3420' T/San Andres Formation @ 4172' 3822-26 В T/Penrose Formation @ 3568' KB @ 3590' 3834-38 **Z**2 T/Grayburg Zone 1 @ 3754' В 3848-52 T/Grayburg Zone 2 @ 3824' Kicked off 4-3/4 3854-56 T/Grayburg Zone 3 @ 3896 hole @ 3848' S 3860-64 /Grayburg Zone 4 @ 3992 3870-72 С 3781-85 M 3898-3902 Honzontal (90 deg) @ MD of between CIBP @ 3955 3906-40 **Z**3 4017-4048 3968-82' 5236' TD (MD) 4002-06 3936.7' TVD 4010-20 4-3/4" OH TVD @ 4054' **Z**5 PBD @ 3955 Z6 TVD Horizontal (90 deg) @ 3936 7'



Bill Richardson

Governor

Joanna Prukop Cabinet Secretary Reese Fullerton Deputy Cabinet Secretary rec'dmidla_{ul.} Aug 2,2 ₂₀₁₁

Mark Fesmire
Division Director
Oil Conservation Division



Administrative Order WFX-839 August 18, 2008

APPLICATION OF XTO ENERGY, INC. TO CONVERT THE EMSU WELL NO. 643 TO INJECTION WITHIN ITS EUNICE MONUMENT SOUTH UNIT WATERFLOOD PROJECT IN THE UNICE MONUMENT GRAYBURG-SAN ANDRES POOL IN LEA COUNTY, NEW MEXICO

ADMINISTRATIVE ORDER OF THE OIL CONSERVATION DIVISION

Under the provisions of Division Order R-7766, XTO Energy, Inc. (OGRID No. 5380) has made application to the Division for permission to add an additional injection well to its Eunice Monument South Unit Waterflood Project located within the Eunice Monument Grayburg-San Andres Pool (Pool No. 23000) in Lea County, New Mexico.

THE DIVISION DIRECTOR FINDS THAT:

The application was filed in due form. No objections have been filed within the 20 day waiting period prescribed by Division Rule 701(C). The proposed injection well is eligible for conversion to injection under the terms of Rule 701. The operator is in compliance with Rule 40.

There are no know faults cutting through the Grayburg and San Andres which would act as a conduit for gas, oil or injection water to seep into the fresh water horizons above the injection zones in the Grayburg and San Andres. There are no known fresh water horizons below the Rustler anhydrite.

The proposed expansion of the above-referenced waterflood project will not cause waste nor impair correlative rights and should be approved.

IT IS THEREFORE ORDERED THAT:

XTO Energy, Inc. is hereby authorized to inject water from the into the unitized interval of the Eunice Monument South Unit ("EMSU") Waterflood Project, through plastic-lined 2-3/8 inch tubing set in a packer located within 100 feet of the top of the injection interval in the following-described well-for purposes of secondary recovery:



Well Number API Number	Well Location	Injection <u>Interval</u>	Packer <u>Depth</u>
EMSU No. 643	1275' FWL & FEL	3848'-3936'	3748',
30-025-30512	B, S6-T21S-R36E		/
Maximum Surface	j		

IT IS FURTHER ORDERED THAT:

The operator shall take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the surface.

Prior to commencing injection operations into the well, the casing shall be pressure tested from the surface to the packer setting depth to assure the integrity of said casing.

The casing-tubing annulus shall be loaded with an inert fluid and equipped with a pressure gauge at the surface or left open to the atmosphere to facilitate detection of leakage in the casing, tubing or packer.

The injection well or system shall be equipped with pressure limiting devices which will limit the wellhead pressure to the maximum surface injection pressure described above.

The Director of the Division may authorize an increase in injection pressure upon a proper showing by the operator of said well that such higher pressure will not result in migration of the injected fluid from the permitted injection interval. Such proper showing shall consist of valid step-rate tests run in accordance with and acceptable to this office.

The operator shall notify the supervisor of the Hobbs District Office of the Division of the date and time of the installation of injection equipment and of all mechanical integrity tests so that the same may be inspected and witnessed.

The operator shall immediately notify the supervisor of the Hobbs District Office of the Division of the failure of the tubing, casing or packer in said well and shall take such steps as may be timely and necessary to correct such failure or leakage.

The subject well shall be governed by all provisions of Division Order No. R-7766, as amended, and Rules 702-706 of the Division Rules and Regulations not inconsistent herewith.

PROVIDED FURTHER THAT, jurisdiction is retained by the Division for the entry of such further orders as may be necessary for the prevention of waste and/or protection of correlative rights or upon failure of the operator to conduct operations (1)

to protect fresh water or (2) consistent with the requirements in this order, whereupon the Division may, after notice and hearing, terminate the injection authority granted herein.

The injection authority granted herein shall terminate one year after the effective date of this order if the operator has not commenced injection operations into the subject well, provided however, the Division, upon written request by the operator received prior to the one year deadline, may grant an extension thereof for good cause shown.

MARK E. FESMIRE, P.E.

Director

MEF/tw

cc: Oil Conservation Division - Hobbs