

DATE 7/15/02	SUSPENSE NA	ENGINEER WJ	LOGGED IN KV	TYPE DHC	APP NO. 219755391
				# 3025	

ABOVE THIS LINE FOR DIVISION USE ONLY

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



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.

<u>Darrin Steed</u>	<u>Darrin Steed</u>	<u>Operations Engineer</u>	<u>7/11/02</u>
Print or Type Name	Signature	Title	Date
<u>Darrin - Steed@XTOEnergy.com</u>			
e-mail Address			



July 11, 2002

Ms. Lori Wrotenberry
New Mexico Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

RE: Application for Exception to Rule 303-C – Downhole Commingling
Schwerdtfeger A #3F
Unit F, Sec 6, T-27-N R-8-W
Otero Chacra, Blanco Mesaverde, Wildcat Gallup and Basin Dakota Pools
San Juan County, New Mexico

Dear Ms. Wrotenberry,

Enclosed please find an administrative application form (C-107A) and attachments for downhole commingling the captioned well. XTO Energy Inc. (XTO) plans to complete all four zones in succession with an expected total commingled rate of about 3 BOPD, 2 BWPD and 900 MCFPD. The ownership (WI, NRI and ORRI) of these pools are identical in this wellbore. Downhole commingling in this manner will offer an economic method of production while protecting against reservoir damage, waste of reserves and violation of correlative rights. Offset operators have been sent a copy of this application by certified mail.

This well is located 1-1/2 miles north of the Florance #66F. A downhole commingling application was sent with supporting documentation in May 2002. Due to both wells close proximity XTO would like to also use that information for this application. The downhole commingling order for the Florance #66F is DHC-3011.

If you need additional information or have any questions, please give me a call at (505) 324-1090.

Sincerely,
XTO ENERGY INC

A handwritten signature in black ink, appearing to read 'Darrin Steed', with a horizontal line extending from the end of the signature.

Darrin L. Steed
Operations Engineer

Enclosures

Cc: DLS File
Well File
GLM

C:\Work\Schwerdtfeger A #3F\DHT application1.doc

District I
1625 N. French Drive, Hobbs, NM 88240
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 Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-107A
Revised May 15, 2000

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505
APPLICATION FOR DOWNHOLE COMMINGLING

APPLICATION TYPE
X Single Well
____ Establish Pre-Approved Pools
EXISTING WELLBORE
X Yes ____ No

XTO Energy Inc 2700 Farmington Ave., Bldg. K, Ste 1, Farmington, NM 87401
Operator Address
Schwerdtfeger A 3F F-6-T27N-R8W San Juan
Lease Well No. Unit Letter-Section-Township-Range County
OGRID No. 167067 Property Code API No. 30-045-31051 Lease Type: _X_ Federal ____ State ____ Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name		Wildcat Gallup	Basin Dakota
Pool Code		96925	71599
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)		Est 6,620' – 6,750' (Perforated)	Est 7,400' – 7,600' (Perforated)
Method of Production (Flowing or Artificial Lift)		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)		Est. 1,150 psig	Est. 780 psig
Oil Gravity or Gas BTU (Degree API or Gas BTU)		1156 BTU	1228 BTU
Producing, Shut-In or New Zone		New Zone	New Zone
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: Est. Rates: 0.1 BOPD 0.1 BWPD 150 MCFPD	Date: Est. Rates: 1.3 BOPD 2.3 BWPD 235 MCFPD
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	Oil Gas % %	Oil Gas 17 % 8 %	Oil Gas 51 % 35 %

ADDITIONAL DATA

Are all working, royalty and overriding royalty interests identical in all commingled zones? Yes _X_ No ____
If not, have all working, royalty and overriding royalty interest owners been notified by certified mail? Yes ____ 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 _X_ 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.
SIGNATURE Darrin Steed TITLE Operations Engineer DATE July 11, 2002
TYPE OR PRINT NAME Darrin Steed TELEPHONE NO. (505) 324-1090

Average Temperature and Deviation Factor Method for Calculating Static Bottom Hole Pressure							
Schwerdtfeger A #5E (Gallup)							
Z (ft)	6111	Depth to zone					
SG	0.711	Gas gravity	Taken from TUMS database				
Pts (psia)	1000	Surface pressure	SITP when installing new compressor				
Tts (F)	70	surface temp	Average surface temperature taken from TUMS database				
Tws (F)	142	BH temp	Taken from NMOCD rules handbook Fig 107-A				
Tavg (R)	566	Avg temp (Rankine)					
Pws (psia)	1500	Starting BHP guess					
Pavg (psia)	1250	Starting BHP guess & surface press					
Ppc	668						
Tpc	389						
Ppr	1.87						
Tpr	1.45						
z	0.808	From Standing & Katz					
Pws (psia)	1150	BHP calc	End of iteration #1				
Pavg (psia)	1075						
Ppr	1.61						
Tpr	1.45						
z	0.83	From Standing & Katz					
Pws (psia)	1146	BHP calc	End of iteration #2				
Natural Gas Production Engineering, Ikoku pg.319							

Schwerdtfeger A #3F												
NW/4 Section 6 T-27-N R-8-W												
Lease	Well #	Sec	Twp	Rng	Chacra		Mesaverde		Gallup		Dakota	
					EUR MMCF	CUM MBO	EUR MMCF	CUM MBO	EUR MMCF	CUM MBO	EUR MMCF	CUM MBO
Florance	62	20	27N	8W							1,062	23.2
Florance	62M	20	27N	8W							737	1.8
Charles et al	2E	12	27N	9W							588	3.6
Charles et al	1E	12	27N	9W							605	1.7
Charles et al	2	12	27N	9W							941	4.6
Charles et al	1	12	27N	9W							675	3.2
Ramenta et al	1	13	27N	9W							800	6.6
John Charles	7	13	27N	9W							475	5.2
John Charles	7E	13	27N	9W							781	4.0
Ramenta et al	1E	13	27N	9W							375	1.5
Huerfanito Unit	97	24	27N	9W							3,331	38.8
Jernigan	3	24	27N	9W							2,545	26.2
Schwerdtfeger A	5E	6	27N	8W					236	3		
Totals					4,231	0.3	48,245	219.4	236.0	3.0	28,511	258.3
Average					353	0.0	1,304	5.9	236.0	3.0	1,018	9.2

Proposed Allocations

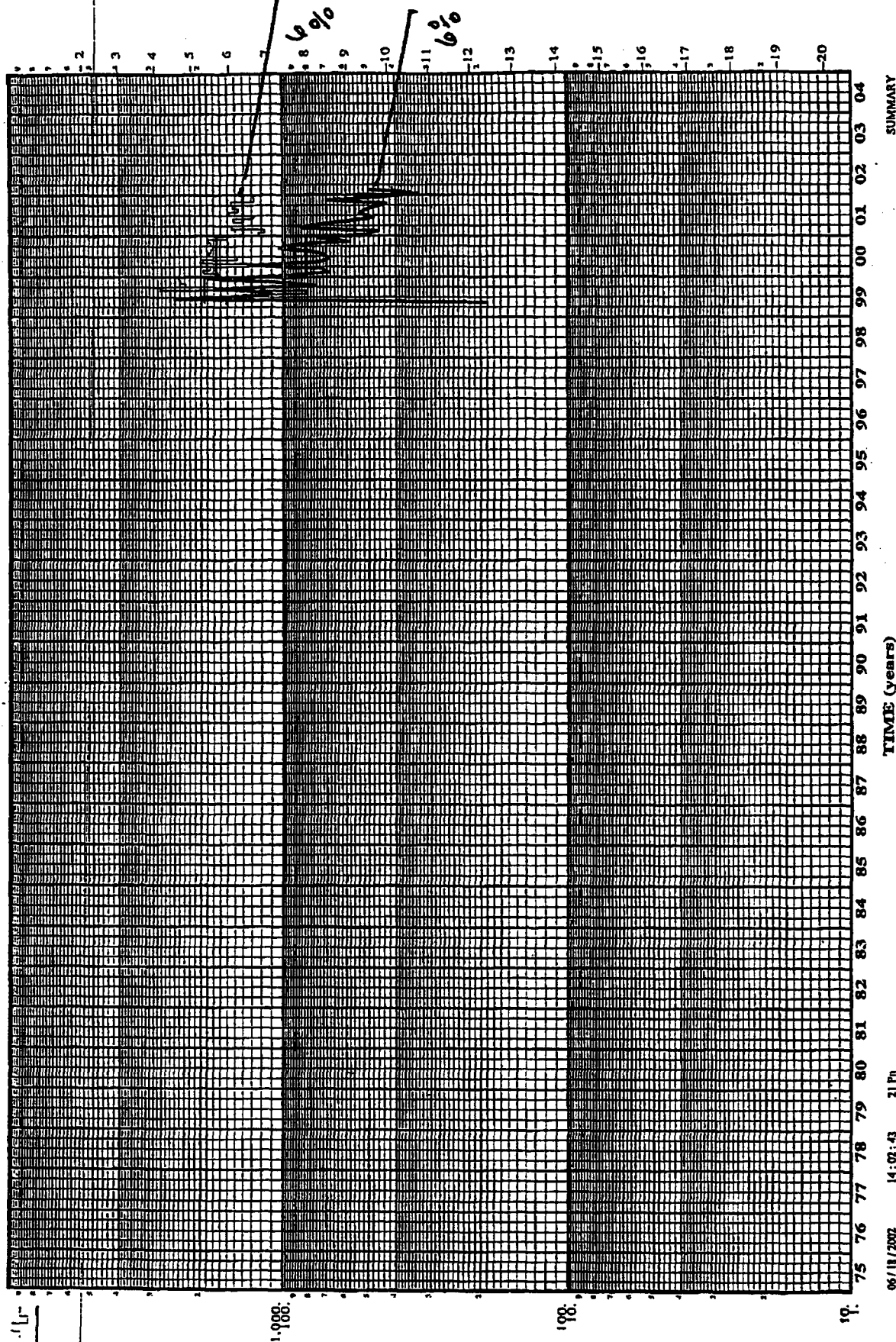
	Gas %	Oil %
Chacra	12%	0%
Mesaverde	45%	33%
Gallup	8%	17%
Dakota	35%	51%

Schwerdtfeger A #3F													
NW/4 Section 6 T-27-N R-8-W													
Lease	Well #	Sec	Twp	Rng	Chacra		Mesaverde		Gallup		Dakota		
					EUR MMCF	CUM MBO	EUR MMCF	CUM MBO	EUR MMCF	CUM MBO	EUR MMCF	CUM MBO	
Florance D LS	9	17	27N	8W	536	0.0							
Florance D LS	17	17	27N	8W	169	0.0							
Florance LS	4A	18	27N	8W	206	0.3							
Florance	66	18	27N	8W	36	0.0							
Navajo Indian B	3	19	27N	8W	352	0.0							
Florance	67	19	27N	8W	481	0.0							
Blanco	25	12	27N	9W	352	0.0							
John Charles	6A	13	27N	9W	160	0.0							
John Charles	8	13	27N	9W	712	0.0							
John Charles	7E	13	27N	9W	599	0.0							
Huerfanito Unit	77	24	27N	9W	191	0.0							
Jernigan	3A	24	27N	9W	437	0.0							
Day B	5	7	27N	8W			1,450	8.3					
Day B	2	7	27N	8W			1,800	10.3					
Schwerdtfeger A	6M	8	27N	8W			263	0.5					
Schwerdtfeger A	20M	8	27N	8W			1,231	4.8					
Schwerdtfeger A	14	8	27N	8W			1,456	8.5					
Schwerdtfeger A	13	8	27N	8W			1,770	12.8					
Florance D LS	10	17	27N	8W			1,266	5.7					
Florance D LS	9	17	27N	8W			2,656	11.5					
Florance	64	17	27N	8W			1,192	1.3					
Florance	63M	17	27N	8W			746	1.2					
Florance	63E	17	27N	8W			618	0.7					
Florance	4	18	27N	8W			2,685	15.0					
Florance	4A	18	27N	8W			636	1.5					
Florance D LS	11	18	27N	8W			2,139	9.0					
Florance	66	18	27N	8W			864	1.4					
Navajo B	6M	19	27N	8W			650	4.2					
Florance	67	19	27N	8W			776	0.5					
Florance D LS	12	19	27N	8W			2,898	16.2					
Navajo Indian B	3	19	27N	8W			950	1.6					
Florance D LS	4	20	27N	8W			1,084	0.5					
Florance	62	20	27N	8W			1,023	1.9					
Florance	62M	20	27N	8W			264	0.7					
Florance D LS	13	20	27N	8W			2,089	11.2					
Florance D LS	4A	20	27N	8W			141	1.4					
Blanco	2A	12	27N	9W			723	2.5					
Blanco	2	12	27N	9W			3,046	13.5					
Blanco	4	12	27N	9W			2,828	15.0					
Blanco	4A	12	27N	9W			590	0.1					
John Charles	7B	13	27N	9W			630	0.2					
John Charles	7	13	27N	9W			3,024	13.1					
John Charles	7A	13	27N	9W			1,328	5.2					
John Charles	6	13	27N	9W			3,005	15.9					
John Charles	6A	13	27N	9W			765	4.9					
Jernigan	3	24	27N	9W			584	10.0					
Huerfanito Unit	77A	24	27N	9W			478	2.5					
Huerfanito Unit	77	24	27N	9W			382	2.9					
Jernigan	3A	24	27N	9W			215	2.9					
Day B	4	7	27N	8W							1,078	4.7	
Day B	3	7	27N	8W							1,127	9.9	
Schwerdtfeger A	6M	8	27N	8W							732	4.1	
Schwerdtfeger A	6	8	27N	8W							1,676	15.9	
Schwerdtfeger A	20M	8	27N	8W							286	3.2	
Schwerdtfeger A	20	8	27N	8W							1,775	14.3	
Florance	64	17	27N	8W							528	7.2	
Florance	63M	17	27N	8W							1,211	15.4	
Florance	63E	17	27N	8W							755	5.5	
Florance	65	18	27N	8W							1,702	9.1	
Florance	66	18	27N	8W							2,270	26.1	
Florance	66E	18	27N	8W							625	3.1	
Navajo B	6	19	27N	8W							620	4.1	
Navajo B	6M	19	27N	8W							270	1.5	
Florance	67	19	27N	8W							459	8.5	
Florance	68	20	27N	8W							482	5.3	

SUMMARY OF GALLUP PRODUCERS
SEC 6 T27N R8W
SAN JUAN COUNTY, NEW MEXICO

[illegible]Run Date:
Run Time:

Δ $\frac{1}{\Delta}$ Δ (m/y) Δ (m/y)



DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised August 15, 2000

DISTRICT II
811 South First, Artesia, N.M. 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

DISTRICT IV
2040 South Pacheco, Santa Fe, NM 87505

OIL CONSERVATION DIVISION

**2040 South Pacheco
Santa Fe, NM 87505**

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-31051	² Pool Code 82329	³ Pool Name OTERO CHACRA
⁴ Property Code	⁵ Property Name SCHWERTDFEGER "A"	⁶ Well Number 3F
⁷ OGRID No. 167067	⁸ Operator Name XTO ENERGY INC.	⁹ Elevation 6757'

¹⁰ Surface Location

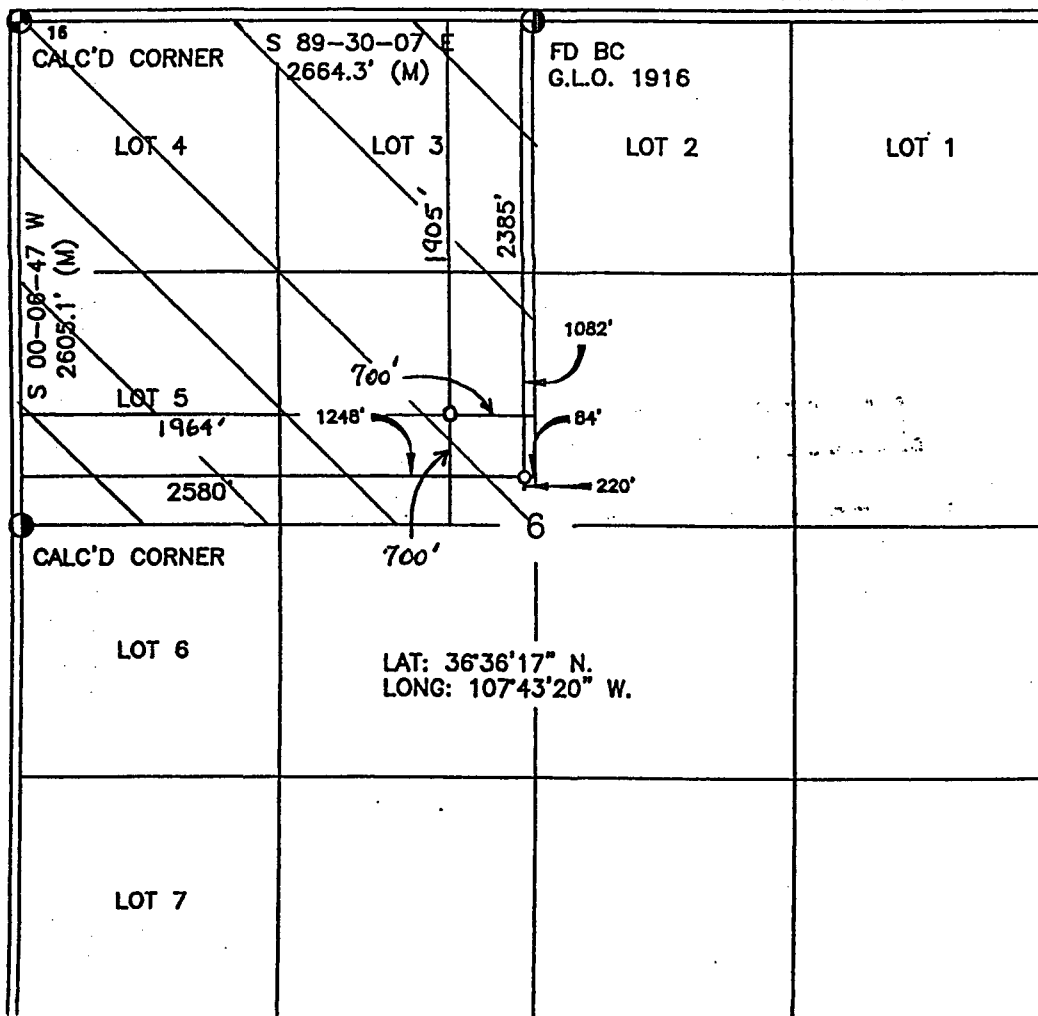
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	6	27-N	8-W		2385'	NORTH	2580'	WEST	SAN JUAN

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	6	27N	8W		1905'	NORTH	1964'	WEST	SAN JUAN

¹² Dedicated Acres 160 NW/4	¹³ Joint or Infill I	¹⁴ Consolidation Code	¹⁵ Order No.
---	------------------------------------	----------------------------------	-------------------------

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein
is true and complete to the best of my knowledge and
belief

Darrin Steed
Signature

Darrin Steed
Printed Name

Operations Engineer
Title

6/11/02
Date

18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from the 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
1825 N. French Dr., Hobbs, N.M. 88240

DISTRICT II
811 South First, Artesia, N.M. 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

DISTRICT IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

2040 South Pacheco
Santa Fe, NM 87505

Form C-102
Revised August 15, 2000

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-31051	² Pool Code 72319	³ Pool Name BLANCO MESADERE
⁴ Property Code	⁵ Property Name SCHWERTFEGER "A"	⁶ Well Number 3F
⁷ GRID No. 167067	⁸ Operator Name XTO ENERGY INC.	⁹ Elevation 6757'

¹⁰ Surface Location

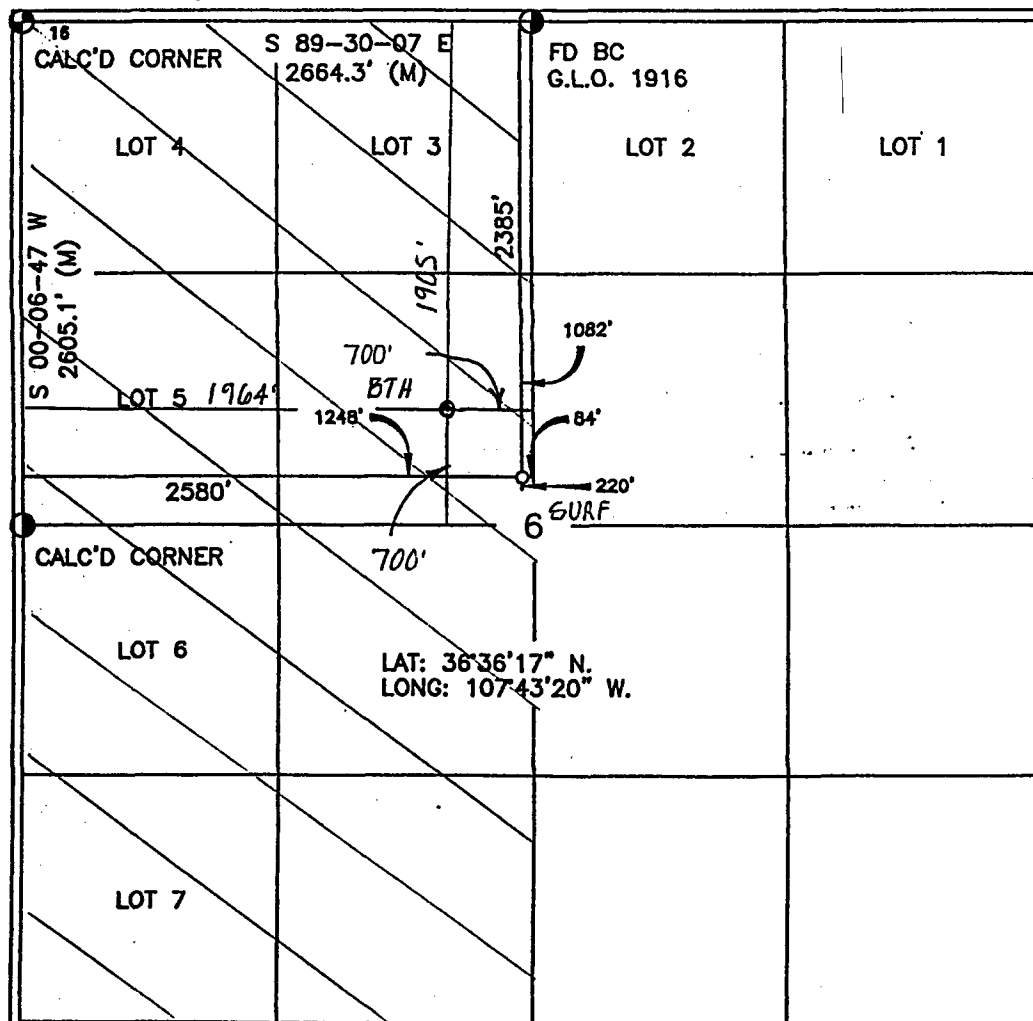
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	6	27-N	8-W		2385'	NORTH	2580'	WEST	SAN JUAN

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	6	27 N	8 W		1905'	NORTH	1964'	WEST	SAN JUAN

¹² Dedicated Acres 320.68 $\frac{W}{2}$	¹³ Joint or Infill I	¹⁴ Consolidation Code	¹⁵ Order No.
---	------------------------------------	----------------------------------	-------------------------

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATE
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief

Signature Jeffrey W Patton
Printed Name JEFFREY W PATTON
Title DRILLING ENGINEER
Date 3-28-02

18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from the notes of previous surveys made by me or under my supervision and that the same is true and correct to the best of my knowledge and belief

Date of Survey
Signature and Seal of Professional Surveyor

Certificate Number

8894

DISTRICT II
811 South First, Artesia, N.M. 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

DISTRICT IV
2040 South Pochecho, Santa Fe, NM 87505

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-31051		² Pool Code	³ Pool Name WC Gallup
⁴ Property Code	⁵ Property Name SCHWERTFEGER "A"		⁶ Well Number 12B
⁷ OGRID No. 167067	⁸ Operator Name XTO ENERGY INC.		⁹ Elevation 6757'

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
F	6	27-N	8-W		2385'	NORTH	2580'	WEST	SAN JUAN

11 Bottom Hole Location If Different From Surface

UL or lot no. F	Section 6	Township 27-N	Range 8-W	Lot ldn	Feet from the 1905'	North/South line North	Feet from the 1964	East/West line West	County SAN JUAN
¹² Dedicated Acres 160 NW/4		¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No.			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<div>16</div> <div>CALC'D CORNER</div> <div>S 89-30-07 E</div> <div>2664.3' (M)</div> <div>LOT 4</div> <div>LOT 3</div> <div>LOT 2</div> <div>LOT 1</div> <div>FD BC</div> <div>G.L.O. 1916</div> <div>S 00-06-47 W</div> <div>2605.1' (M)</div> <div>1905'</div> <div>2385'</div> <div>1082'</div> <div>700'</div> <div>84'</div> <div>220'</div> <div>6 SURF</div> <div>1248'</div> <div>BH</div> <div>1964'</div> <div>2580'</div> <div>700'</div>		<div>17</div> <div>OPERATOR CERTIFICATION</div> <div>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</div> <div><div>Darrin Steed</div><div>Signature</div><div>Darrin Steed</div><div>Printed Name</div><div>Operations Engineer</div><div>Title</div><div>July 11, 2002</div><div>Date</div></div>	
<div>CALC'D CORNER</div> <div>LOT 6</div> <div>LAT: 36°36'17" N.</div> <div>LONG: 107°43'20" W.</div> <div>LOT 7</div>		<div>18</div> <div>SURVEYOR CERTIFICATION</div> <div>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 knowledge</div> <div><div>10</div><div>Date of Survey</div><div><div>ROY A. BUSH</div><div>NEW MEXICO</div><div>8894</div><div>REGISTERED PROFESSIONAL LAND SURVEYOR</div></div><div>Signature and Seal of Professional Surveyor</div><div>8894</div><div>Certificate Number</div></div>	

DISTRICT I
1825 N. French Dr., Hobbs, N.M. 88240

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DISTRICT IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised August 15, 2000

Submit to Appropriate District Office
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Fee Lease - 3 Copies

OIL CONSERVATION DIVISION

2040 South Pacheco
Santa Fe, NM 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-31051	² Pool Code 71599	³ Pool Name BASIN DAKOTA
⁴ Property Code	⁵ Property Name SCHWERTFEGER "A"	⁶ Well Number 3F
⁷ GRID No. 167067	⁸ Operator Name XTO ENERGY INC.	⁹ Elevation 6757'

¹⁰Surface Location

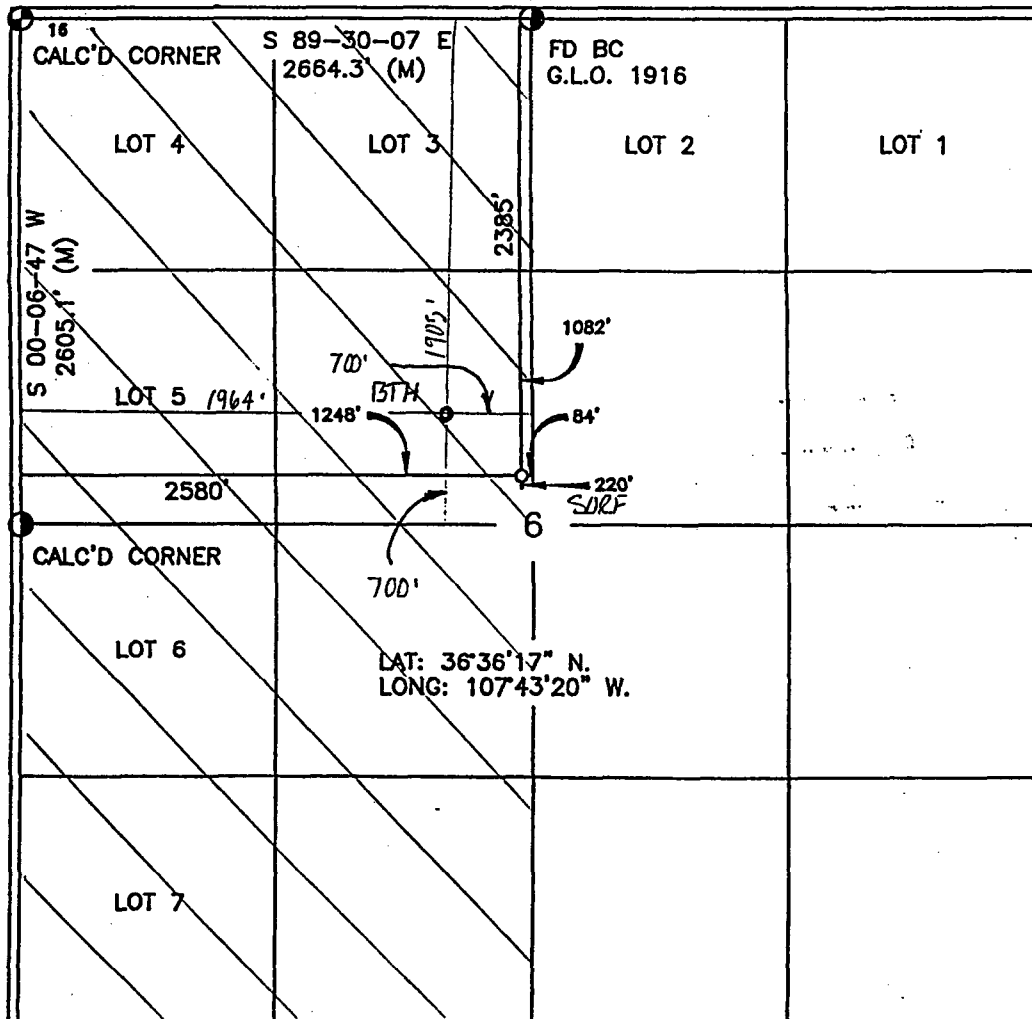
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	6	27-N	8-W		2385'	NORTH	2580'	WEST	SAN JUAN

¹¹Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	6	27N	8W		1905	NORTH	1964	WEST	SAN JUAN

¹² Dedicated Acres 320.68 W/2	¹³ Joint or Infill I	¹⁴ Consolidation Code	¹⁵ Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief

Signature Jeffrey W Patton
Printed Name JEFFREY W PATTON
Title DRILLING ENGINEER
Date 3-28-02

18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from the notes of the 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

8894
Certificate Number