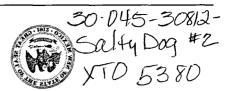
# REC NEW NEW CO OIL CONSERVATION DIVISION - Engineering Bureau 2009 MAY 19 AFRADISHEN St. Francis Drive, Santa Fe, NM 87505



## ADMINISTRATIVE APPLICATION CHECKLIST

		ADMINISTRATIVE AT LICENTEST CONTEST.
TI	HIS CHECKLIST IS N	MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE
Applic	cation Acronym	
•	[NSL-Non-Sta [DHC-Dow [PC-Po	ndard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication] rnhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] rool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase] rlified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]
[1]	TYPE OF A	PPLICATION - Check Those Which Apply for [A]
[1]	[A]	Location - Spacing Unit - Simultaneous Dedication  NSL NSP SD
	Chec [B]	Cone Only for [B] or [C]  Commingling - Storage - Measurement  DHC CTB PLC PC OLS OLM
	[C]	Injection - Disposal - Pressure Increase - Enhanced Oil Recovery  WFX PMX SWD IPI BOR PPR
	[D]	Other: Specify
[2]	NOTIFICAT	TION REQUIRED TO: - Check Those Which Apply, or □ Does Not Apply
[ <i>4</i> ]	[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]		CURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE ATION INDICATED ABOVE.
	val is <b>accurate</b> a	TION: I hereby certify that the information submitted with this application for administrative and <b>complete</b> to the best of my knowledge. I also understand that <b>no action</b> will be taken on this equired information and notifications are submitted to the Division.
	Note	Statement must be completed by an individual with managerial and/or supervisory capacity.
Diane Jar Print o	ramillo or Type Name	Signature  Supervisor, Accounting/Engineering Techs Title Diane_Jaramillo@xtoenergy.com  5-18-00 Date

e-mail Address

Geno P. SWD WFX PNX PP. Permit Date UIC Orr  a Wells   Well Name   Selfy Dog Well NDD   APINUM (30) & Y.S.   3087   Soud Date   12 - 2001   Septicity   (UiC primacy March 7, 1982) Footages   1995 FSL   1177 FFL   Unit   Sec   5 Tsp   37N Prigs   14 MConny   Scan July   Footages   1995 FSL   1177 FFL   Unit   Sec   5 Tsp   37N Prigs   14 MConny   Scan July   Footages   1995 FSL   1177 FFL   Unit   Sec   5 Tsp   37N Prigs   14 MConny   Scan July   Footages   1995 FSL   1177 FFL   Unit   Sec   5 Tsp   37N Prigs   14 MConny   Footages   1995 FSL   1177 FFL   Unit   Sec   5 Tsp   37N Prigs   14 MConny   Footages   1995 FSL   1177 FFL   Unit   Sec   5 Tsp   37N Prigs   14 MConny   Footages   1995 FSL   1177 FFL   Unit   Sec   5 Tsp   37N Prigs   14 MConny   Footages   1996 FSL   1177 FFL   Unit   Sec   14 MConny   Filanced Work to Well   Sizes   1996 FSL   1177 FFL   Footages   1996 FSL   1177 FFL   1177 FFL   1177 FFL   Footages   1996 FSL   1177 FFL   1177 FFL   1177 FFL   Footages   1996 FSL   1177 FFL   1177 FFL   1177 FFL   Footages   1996 FSL   1177 FFL   1177 FFL   1177 FFL   1177 FFL   1177 FFL   Footages   1177 FFL   1177 F		Inj	ection Permit C	hecklist (7/8/08)		= <u>=</u>
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# RECEIVED

2009 MAY 19 AM 10 43

382 Road 3100 Aztec, New Mexico 87410 Phone: (505) 333-3100 FAX: (505) 333-3280

May 18, 2009

State of New Mexico
Oil Conservation Division
Mr. William Jones
1220 South Saint Francis Drive
Santa Fe. New Mexico 87505

Re:

Salt Water Disposal Application

Salty Dog No. 2 Well

Section 5. Township 29 North, Range 14 West, NMPM

San Juan County, New Mexico

Dear Mr. Jones:

Per your e-mail correspondence dated February 16, 2009, attached you will find the additional information you requested:

- 1) One-half mile radius map with surrounding owners in the Mesaverde formation.
  - a. Each track listed contained in the one-half mile AOR and the owners affected in each tract.
  - b. Notification to Conoco/Phillips
  - c. Notification to Western Gas Resources
  - d. Notification to the Bureau of Land Management
  - e. Affidavit of Publication from the Daily Times newspaper
- 2) Wellbore diagram of the Rubco-Carr-Russel Federal #1
- 3) Revision to Exhibit "3", Operations Plan
- 4) Revision to the Salty Dog #2 wellbore diagram.

Should you require further documentation please feel free to call my office @ 505-333-3100 or e-mail Diane Jaramillo@xtoenergy.com and I will be happy to furnish any additional information.

Mr. Loren Fothergill is the engineer in charge should you need clarification of engineering data and is available at the number listed above.

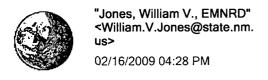
Cours truly,

Diane Jaramillo

Supervisor, Engineering Techs/Accounting

CC: Aztec OCD

BLM - Farmington



To <Diane\_Jaramillo@xtoenergy.com>

cc "Ezeanyim, Richard, EMNRD" <richard.ezeanyim@state.nm.us>, "Warnell, Terry G, EMNRD" <TerryG.Warnell@state.nm.us>, "Hayden, Steven, hcc.

Subject Disposal Application from XTO: Salty Dog #2 30-045-30812 (renewal of SWD-811)

History:

A This message has been replied to and forwarded.

#### Hello Diane:

After reviewing this application to inject (renewal of SWD-811), we found this permit application to almost be a duplicate of the one in 2001. XTO must update the application including the land details and formal "notice".

- 1) Please draw the ½ mile radius around this well and have your land department inform you of all surrounding owners in the Mesaverde formation.
  - a. List each tract wholly or partially contained in this ½ mile AOR and the owners ("affected parties") in each tract
  - b. Send proof these affected parties were noticed of this most recent application
  - c. Send proof the surface owner was provided a complete copy of this application
  - d. Send a copy of the newspaper notice done within the past few months
- 2) Send a wellbore diagram of the plugged well which is located within the Area of Review.
- 3) The data on your initial pages of the application does not match the data on the actual wellbore diagram please correct.

#### **REMARKS:**

It appears, the OCD will grant the 1,300 psi injection pressure limit based on previous step rate test and application, It appears the OCD will grant injection from 2388 to 3096 feet, but not any higher than 2388 because of salinity concerns

Please be aware, this well's injection interval is very tight – Richardson was not satisfied with the injectivity into this well.

Regards,

William V. Jones PE New Mexico Oil Conservation Division 1220 South St. Francis Santa Fe, NM 87505 505-476-3448

Confidentiality Notice: This e-mail, including all attachments is for the sole use of the intended recipient(s) and may contain confidential and privileged information. Any unauthorized review, use, disclosure or distribution is prohibited unless specifically provided under the New Mexico Inspection of Public Records Act. If you are not the intended recipient, please contact the sender and destroy all copies of this message. -- This email has been scanned by the Sybari - Antigen Email System.

#### **DETERMINATION - APPROVAL - CERTIFICATION**

Pursuant to the authority vested in the Secretary of the Interior, under Section 17(j) of the Mineral Leasing Act of 1920, as amended (74 Stat. 784; 30 U.S.C. 226(j), and delegated to the authorized officer, of the Bureau of Land Management, I do hereby:

- Α. Determine that the Federal lease or leases as to the lands committed to the attached agreement cannot be independently developed and operated in conformity with the well-spacing program established for the field or area in which said lands are located, and that consummation and approval of the agreement will be in the public interest.
- В. Approve the attached communitization agreement covering: SW1/4 of Section 5, T. 29 N., R. 14 W., San Juan County, New Mexico, as to natural gas and associated liquid hydrocarbons producible from the Pictured Cliffs formation. This approval will become invalid ab initio by the Authorized officer should then public interest requirements under section 3105.2-3(e) not be met.
- C. Certify and determine that the drilling, producing, rental, minimum royalty and royalty requirements of the Federal lease or leases committed to said agreement are hereby established, altered, changed, or revoked to conform with the terms and conditions of the agreement.
- Approval of this agreement does not warrant or certify that the D. applicant and other working interest owners thereof hold legal or equitable title to the leases which are committed hereto.

Approved:

January 4, 2001

Luev Bee

Legal Instruments Examiner Petroleum Management Team

Effective:

March 4, 2000

Contract No.: Com. Agr. NMNM 103035

#### **COMMUNITIZATION AGREEMENT**

CONTRACT NO. NMNM 103035

THIS AGREEMENT, entered into as of the date shown in Section 10 hereoffis by and between the parties subscribing, ratifying or consenting hereto, such parties being hereinafter referred to as "parties hereto."

#### WITNESSETH:

WHEREAS, the Act of February 25, 1920 (41 Stat. 437), as amended and supplemented, authorizes communitization or drilling agreements communitizing or pooling a Federal oil and gas lease, or any portion thereof, with other lands, whether or not owned by the United States, when separate tracts under such Federal lease cannot be independently developed and operated in conformity with an established well-spacing program for the field or area and such communitization or pooling is determined to be in the public interest; and

WHEREAS, the parties hereto own working, royalty or other leasehold interests, or operating rights under the oil and gas leases and lands subject to this agreement which cannot be independently developed and operated in conformity with the well-spacing program established for the field or area in which said lands are located; and

WHEREAS, the parties hereto desire to communitize and pool their respective mineral interests in lands subject to this agreement for the purpose of developing and producing communitized substances in accordance with the terms and conditions of this agreement:

NOW, THEREFORE, in consideration of the premises and the mutual advantages to the parties hereto, it is mutually covenanted and agreed by and between the parties hereto as follows:

1. The lands covered by this agreement (hereinafter referred to as "communitized area") are described as follows:

#### TOWNSHIP 29 NORTH, RANGE 14 WEST, NMPM

Section 5: SW/4

San Juan County, New Mexico

containing 160.00 acres, more or less, and this agreement shall include only the Pictured Cliffs formation underlying said lands and the natural gas and associated liquid hydrocarbons, hereinafter referred to as "communitized substances", producible from such formations.

2. Attached hereto, and made a part of this agreement for all purposes, is Exhibit B, designating the operator of the communitized area and showing the acreage, percentage and ownership of oil and gas interests in all lands within the communitized area, and the authorization, if any, for communitizing or pooling any patented or fee lands within the communitized area.

- 3. All matters of operation shall be governed by the operator under and pursuant to the terms and provisions of this agreement. A successor operator may be designated by the owners of the working interest in the communitized area, and four executed copies of a designation of successor operator shall be filed with the Authorized Officer.
- 4. Operator shall furnish the Secretary of the Interior, or his authorized representative, with a log and history of any well drilled on the communitized area, monthly reports of operations, statements of oil and gas sales and royalties and such other reports as are deemed necessary to compute monthly the royalty due the United States, as specified in the applicable oil and gas regulations.
- 5. The communitized area shall be developed and operated as an entirety, with the understanding and agreement between the parties hereto that all communitized substances produced therefrom shall be allocated among the leaseholds comprising said area in the proportion that the acreage interest of each leasehold bears to the entire acreage interest committed to this agreement.

All proceeds, 8/8ths, attributed to unleased Federal, State or fee land included within the CA area are to be placed in an interest earning escrow or trust account by the designated operator until the land is leased or ownership is established.

- 6. The royalties payable on communitized substances allocated to the individual leases comprising the communitized area and the rentals provided for in said leases shall be determined and paid on the basis prescribed in each of the individual leases. Payments of rentals under the terms of leases subject to this agreement shall not be affected by this agreement except as provided for under the terms and provisions of said leases or as may herein be otherwise provided. Except as herein modified and changed, the oil and gas leases subject to this agreement shall remain in full force and effect as originally made and issued. It is agreed that for any Federal lease bearing a sliding- or step-scale rate of royalty, such rate shall be determined separately as to production from each communitization agreement to which such lease may be committed, and separately as to any noncommunitized lease production, provided, however, as to leases where the rate of royalty for gas is based on total lease production per day, such rate shall be determined by the sum of all communitized production allocated to such a lease plus any noncommunitized lease production.
- 7. There shall be no obligation on the lessees to offset any well or wells completed in the same formation as covered by this agreement on separate component tracts into which the communitized area is now or may hereinafter be divided, nor shall any lessee be required to measure separately communitized substances by reason of the diverse ownership thereof, but the lessees hereto shall not be released from their obligation to protect said communitized area from drainage of communitized substances by a well or wells which may be drilled offsetting said area.

- 8. The commencement, completion, continued operation, or production of a well or wells for communitized substances on the communitized area shall be construed and considered as the commencement, completion, continued operation, or production on each and all of the lands within and comprising said communitized area, and operations or production pursuant to this agreement shall be deemed to be operations or production as to each lease committed hereto.
- 9. Production of communitized substances and disposal thereof shall be in conformity with allocation, allotments, and quotas made or fixed by any duly authorized person or regulatory body under applicable Federal or State statutes. This agreement shall be subject to all applicable Federal and State laws or executive orders, rules and regulations, and no party hereto shall suffer a forfeiture or be liable in damages for failure to comply with any of the provisions of this agreement if such compliance is prevented by, or if such failure results from, compliance with any such laws, orders, rules or regulations.
- The date of this agreement is MAR 4 2000, and it shall become effective as of this date 10. or from the onset of production of communitized substances, whichever is earlier upon execution by the necessary parties, notwithstanding the date of execution, and upon approval by the Secretary of the Interior or by his duly authorized representative, and shall remain in force and effect as to the Pictured Cliffs formation for a period of 2 years and for as long as communitized substances are, or can be, produced from the communitized area in paying quantities: Provided, that prior to production in paying quantities from the communitized area and upon fulfillment of all requirements of the Secretary of the Interior, or his duly authorized representative, with respect to any dry hole or abandoned well, this agreement may be terminated at any time by mutual agreement of the parties hereto. This agreement shall not terminate upon cessation of production if, within 60 days thereafter, reworking or drilling operations on the communitized area are commenced and are thereafter conducted with reasonable diligence during the period of nonproduction. The 2 year term of this agreement will not in itself serve to extend the term of any Federal lease which would otherwise expire during said period.
- 11. The covenants herein shall be construed to be covenants running with the land with respect to the communitized interests of the parties hereto and their successors in interests until this agreement terminates and any grant, transfer or conveyance of any such land or interest subject hereto, whether voluntary or not, shall be and hereby is conditioned upon the assumption of all obligations hereunder by the grantee, transferee, or other successor in interest, and as to Federal land shall be subject to approval by the Secretary of the Interior, or his duly authorized representative.
- 12. It is agreed between the parties hereto that the Secretary of the Interior, or his duly authorized representative, shall have the right of supervision over all fee and State mineral operations within the communitized area to the extent necessary to monitor production and measurement, and assure that no avoidable loss of hydrocarbons occurs in which the United States has an interest pursuant to applicable oil and gas regulations of the Department of the Interior relating to such production and measurement.
- 13. This agreement shall be binding upon the parties hereto and shall extend to and be binding upon their respective heirs, executors, administrators, successors and assigns.

- 14. This agreement may be executed in any number of counterparts, no one of which needs to be executed by all parties, or may be ratified or consented to by separate instrument, in writing, specifically referring hereto, and shall be binding upon all parties who have executed such a counterpart, ratification or consent hereto with the same force and effect as if all parties had signed the same document.
- 15. <u>Nondiscrimination</u>: In connection with the performance of work under this agreement, the operator agrees to comply with all of the provisions of Section 202(1) to (7) inclusive, of Executive Order 11246 (30 F.R. 12319), as amended, which are hereby incorporated by reference in this agreement.

IN WITNESS WHEREOF, the parties hereto have executed this agreement as of the day and year first above written and have set opposite their respective names the date of execution.

RICHARDSON OPERATING COMPANY		
Cathleen Colley Cathleen Colby, Attorney-in-Fact	Executed January 26, 2	.000
RICHARDSON PRODUCTION COMPANY  Cathleen Collan, Cathleen Colloy, Attorney-in-Fact	Executed <u>January</u> 16, 2	:000
Tom # . L.  Terri G. King, Attorney in-Fact  WWA	Executed 8 Feb , 2	000

STATE OF COLORADO	) ) ss.
COUNTY OF DENVER	) 55.
The foregoing instrument was Cathleen Colby, as Attorney-in-Farichardson operating commission expires:	as acknowledged before me this <u>a</u> (a) day of <u>January</u> 2000, by act on behalf of RICHARDSON PRODUCTION COMPANY and MPANY.  MPANY.  Notary Public
STATE OF TEXAS  COUNTY OF HARRIS	) ) ss. 
The foregoing instrument wa by Terri G. King the Attorn on behalf of said corporation.	s acknowledged before me this Jth day of Lebruary, 2000, ney-in-Fact of CONOCO, INC., a Delaware corporation,
My commission expires:	<u>Decke R. Wastby</u> Notary Public
VICKI R. WESTBY NOTARY PUBLIC STATE OF TEXAS My Comm. Exp. 01-23-2002	1 1 1 1 1

## **EXHIBIT A**

of comr PM	nunitized area cover Pictured Cliffs	ing <u>SW/4</u> SectionField, San Juan (	on <u>5</u> , To	wnship Mexico	29 North	, Range 14
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		Burrows				
		and				

EXHIBIT B To Communitization Agreement dated \_\_\_\_ , embracing: Township 29 North, Range 14 West, NMPM Section 5: SW/4 San Juan County, New Mexico Operator of Communitized Area: Richardson Operating Company **DESCRIPTION OF LEASES COMMITTED** Tract No. 1. 47313000 Lease Serial No.: USA NMSF-079968 Lease Date: July 1, 1951 Lease Term: 5 years United States of America Lessor: Original Lessee: Mrs. Emma T. Russell Present Lessee: 100% Conoco, Inc. Description of Land Committed: Township 29 North, Range 14 West, NMPM N/2SW/4, SW/4SW/4 Section 5: Number of Acres: 120.00 gross, 120.00 net Royalty Rate: 12.5% Name and Percent ORRI Owners: 2.00% Conoco, Inc. 2.25% Hanson-McBride Petroleum Company 2.25% Paul Slayton .25% John N. Eddy .25% Nathan C. Greer Name and Percent WI Owners: 100% Richardson Production Company

Tract No. 2

Lease Date: April 7, 1997

Lease Term: 5 years

WF Federal 5-2 Well

Page 8

Lessor:

Eva Thompson Burrows, a widow

47310001

Original Lessee:

**Richardson Production Company** 

Present Lessee:

100% Richardson Production Company

Description of Land Committed:

Township 29 North, Range 14 West, NMPM

Section 5:

SE/4SW/4

Number of Acres:

40.00 gross, 20.00 net

Royalty Rate:

12.5%

Name and Percent ORRI Owners:

None

Name and Percent WI Owners:

100% Richardson Production Company

Tract No. 3

Lease Date:

April 4, 1997

Lease Term:

5 years

Lessor:

Anne Burrows Church, a widow

47310 002

Original Lessee:

Richardson Production Company

Present Lessee:

100% Richardson Production Company

Description of Land Committed:

Township 29 North, Range 14 West, NMPM

Section 5: SE/4SW/4

Number of Acres:

40.00 gross, 20.00 net

Royalty Rate:

12.5%

Name and Percent ORRI Owners:

None

Name and Percent WI Owners:

100% Richardson Production Company

# RECAPITULATION

Tract No.	No. of Acres Committed	Percentage of Interest in Communitized Area
1	120.00	75.00%
2	20.00	12.50%
3	20.00	_12.50%
	160.00	100.00%

## **DETERMINATION - APPROVAL - CERTIFICATION**

Pursuant to the authority vested in the Secretary of the Interior, under Section 17(j) of the Mineral Leasing Act of 1920, as amended (74 Stat. 784; 30 U.S.C. 226(j), and delegated to the authorized officer, of the Bureau of Land Management, I do hereby:

- Determine that the Federal lease or leases as to the lands committed A. to the attached agreement cannot be independently developed and operated in conformity with the well-spacing program established for the field or area in which said lands are located, and that consummation and approval of the agreement will be in the public interest.
- B. Approve the attached communitization agreement covering: NW1/4 of Section 8, T. 29 N., R. 14 W., San Juan County, New Mexico, as to natural gas and associated liquid hydrocarbons producible from the Pictured Cliffs formation. This approval will become invalid *ab initio* by the Authorized officer should then public interest requirements under section 3105.2-3(e) not be met.
- C. Certify and determine that the drilling, producing, rental, minimum royalty and royalty requirements of the Federal lease or leases committed to said agreement are hereby established, altered, changed, or revoked to conform with the terms and conditions of the agreement.
- D. Approval of this agreement does not warrant or certify that the applicant and other working interest owners thereof hold legal or equitable title to the leases which are committed hereto.

Approved:

November 8, 2002

Legal Instruments Examiner Petroleum Management Team

Effective:

September 26, 2001

Contract No.: Com. Agr. NMNM 104912

#### COMMUNITIZATION AGREEMENT

CONTRACT NO.	Darte
<del></del>	

THIS AGREEMENT, entered into as of the date shown in Section 10 hereof, is by and between the parties subscribing, ratifying or consenting hereto, such parties being hereinafter referred to as parties: 21 hereto."

#### WITNESSETH:

WHEREAS, the Act of February 25, 1920 (41 Stat. 437), as amended and supplemented, authorizes communitization or drilling agreements communitizing or pooling a Federal oil and gas lease, or any portion thereof, with other lands, whether or not owned by the United States, when separate tracts under such Federal lease cannot be independently developed and operated in conformity with an established well-spacing program for the field or area and such communitization or pooling is determined to be in the public interest; and

WHEREAS, the parties hereto own working, royalty or other leasehold interests, or operating rights under the oil and gas leases and lands subject to this agreement which cannot be independently developed and operated in conformity with the well-spacing program established for the field or area in which said lands are located; and

WHEREAS, the parties hereto desire to communitize and pool their respective mineral interests in lands subject to this agreement for the purpose of developing and producing communitized substances in accordance with the terms and conditions of this agreement:

NOW, THEREFORE, in consideration of the premises and the mutual advantages to the parties hereto, it is mutually covenanted and agreed by and between the parties hereto as follows:

1. The lands covered by this agreement (hereinafter referred to as "communitized area") are described as follows:

#### TOWNSHIP 29 NORTH, RANGE 14 WEST, NMPM

Section 8: NW/4

San Juan County, New Mexico

containing 160.00 acres, more or less, and this agreement shall include only the Pictured Cliffs formation underlying said lands and the natural gas and associated liquid hydrocarbons, hereinafter referred to as "communitized substances", producible from such formations.

2. Attached hereto, and made a part of this agreement for all purposes, are Exhibit A and B, designating the operator of the communitized area and showing the acreage, percentage and ownership of oil and gas interests in all lands within the communitized area, and the authorization, if any, for communitizing or pooling any patented or fee lands within the communitized area.

- 3. All matters of ope\_\_ion shall be governed by the operator \(\varphi\) er and pursuant to the terms and provisions of this agreement. A successor operator may be designated by the owners of the working interest in the communitized area, and four executed copies of a designation of successor operator shall be filed with the Authorized Officer.
- 4. Operator shall furnish the Secretary of the Interior, or his authorized representative, with a log and history of any well drilled on the communitized area, monthly reports of operations, statements of oil and gas sales and royalties and such other reports as are deemed necessary to compute monthly the royalty due the United States, as specified in the applicable oil and gas regulations.
- 5. The communitized area shall be developed and operated as an entirety, with the understanding and agreement between the parties hereto that all communitized substances produced therefrom shall be allocated among the leaseholds comprising said area in the proportion that the acreage interest of each leasehold bears to the entire acreage interest committed to this agreement.
  - All proceeds, 8/8ths, attributed to unleased Federal, State or fee land included within the CA area are to be placed in an interest earning escrow or trust account by the designated operator until the land is leased or ownership is established.
- 6. The royalties payable on communitized substances allocated to the individual leases comprising the communitized area and the rentals provided for in said leases shall be determined and paid on the basis prescribed in each of the individual leases. Payments of rentals under the terms of leases subject to this agreement shall not be affected by this agreement except as provided for under the terms and provisions of said leases or as may herein be otherwise provided. Except as herein modified and changed, the oil and gas leases subject to this agreement shall remain in full force and effect as originally made and issued. It is agreed that for any Federal lease bearing a sliding- or step-scale rate of royalty, such rate shall be determined separately as to production from each communitization agreement to which such lease may be committed, and separately as to any noncommunitized lease production, provided, however, as to leases where the rate of royalty for gas is based on total lease production per day, such rate shall be determined by the sum of all communitized production allocated to such a lease plus any noncommunitized lease production.
- 7. There shall be no obligation on the lessees to offset any well or wells completed in the same formation as covered by this agreement on separate component tracts into which the communitized area is now or may hereinafter be divided, nor shall any lessee be required to measure separately communitized substances by reason of the diverse ownership thereof, but the lessees hereto shall not be released from their obligation to protect said communitized area from drainage of communitized substances by a well or wells which may be drilled offsetting said area.

- 8. The commencers are, completion, continued operation, or a duction of a well or wells for communitized substances on the communitized area shall be construed and considered as the commencement, completion, continued operation, or production on each and all of the lands within and comprising said communitized area, and operations or production pursuant to this agreement shall be deemed to be operations or production as to each lease committed hereto.
- 9. Production of communitized substances and disposal thereof shall be in conformity with allocation, allotments, and quotas made or fixed by any duly authorized person or regulatory body under applicable Federal or State statutes. This agreement shall be subject to all applicable Federal and State laws or executive orders, rules and regulations, and no party hereto shall suffer a forfeiture or be liable in damages for failure to comply with any of the provisions of this agreement if such compliance is prevented by, or if such failure results from, compliance with any such laws, orders, rules or regulations.
- The date of this agreement is SEP 26 2001, and it shall become effective as of this date 10. or from the onset of production of communitized substances, whichever is earlier upon execution by the necessary parties, notwithstanding the date of execution, and upon approval by the Secretary of the Interior or by his duly authorized representative, and shall remain in force and effect as to the Pictured Cliffs formation for a period of 2 years and for as long as communitized substances are, or can be, produced from the communitized area in paying quantities: Provided, that prior to production in paying quantities from the communitized area and upon fulfillment of all requirements of the Secretary of the Interior, or his duly authorized representative, with respect to any dry hole or abandoned well, this agreement may be terminated at any time by mutual agreement of the parties hereto. This agreement shall not terminate upon cessation of production if, within 60 days thereafter, reworking or drilling operations on the communitized area are commenced and are thereafter conducted with reasonable diligence during the period of nonproduction. The 2 year term of this agreement will not in itself serve to extend the term of any Federal lease which would otherwise expire during said period.
- 11. The covenants herein shall be construed to be covenants running with the land with respect to the communitized interests of the parties hereto and their successors in interests until this agreement terminates and any grant, transfer or conveyance of any such land or interest subject hereto, whether voluntary or not, shall be and hereby is conditioned upon the assumption of all obligations hereunder by the grantee, transferee, or other successor in interest, and as to Federal land shall be subject to approval by the Secretary of the Interior, or his duly authorized representative.
- 12. It is agreed between the parties hereto that the Secretary of the Interior, or his duly authorized representative, shall have the right of supervision over all fee and State mineral operations within the communitized area to the extent necessary to monitor production and measurement, and assure that no avoidable loss of hydrocarbons occurs in which the United States has an interest pursuant to applicable oil and gas regulations of the Department of the Interior relating to such production and measurement.
- 13. This agreement shall be binding upon the parties hereto and shall extend to and be binding upon their respective heirs, executors, administrators, successors and assigns.

- 14. This agreement n be executed in any number of counterp 3, no one of which needs to be executed by all parties, or may be ratified or consented to by separate instrument, in writing, specifically referring hereto, and shall be binding upon all parties who have executed such a counterpart, ratification or consent hereto with the same force and effect as if all parties had signed the same document.
- Nondiscrimination: In connection with the performance of work under this agreement, the 15. operator agrees to comply with all of the provisions of Section 202(1) to (7) inclusive, of Executive Order 11246 (30 F.R. 12319), as amended, which are hereby incorporated by reference in this agreement.

IN WITNESS WHEREOF, the parties hereto have executed this agreement as of the day and year first above written and have set opposite their respective names the date of execution.				
RICHARDSON OPERATING COM				
Cathleen Collry Cathleen Colby, Attorney-in-Fact	- pull	Executed October 3	, 2001	
RICHARDSON PRODUCTION CO	_ ·			
Cathleen Colla, Cathleen Colby, Attorney-in-Fact	_ juli-	Executed October 3	, 2001	
STATE OF COLORADO	) ) ss.			
COUNTY OF DENVER	)	1		
The foregoing instrument was acknowledged before me this 3rd day of 120001 by Cathleen Colby, as Attorney-in-Fact on behalf of RICHARDSON PRODUCTION COMPANY and RICHARDSON OPERATING COMPANY.				
My commission expires: $10-31-02$		Notary Public	tryger	

## EXHIBIT A

Plat of communitized area covering <u>NW/4</u> Section <u>8</u>, Township <u>29 North</u>, <u>Range 14 West</u>, NMPM, <u>Pictured Cliffs</u> Field, San Juan County, New Mexico.

	<b>6</b>	
Tract 1 NM-101551		
Toront		
Tract 1		
77.404.00		
NM-101551		
	<b>)</b> .	
Tract II  CHURCH and BURROWS  • ROPCO 8-2		
CHURCH and BURROWS		
<ul> <li>ROPCO 8-2</li> </ul>		
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# EXHIBIT B

To Communitization Agreement dated _	, embracing:
Township 29 North, Range	ge 14 West, NMPM
Section 8: NW/4 San Juan County, New M	Mexico
Sail Juan County, New N.	icateo
Operator of Communitized Area: Richard	rdson Operating Company
DESCRIP	TION OF LEASES COMMITTED
	Tract No. I
Lease Serial No.:	USA NM 101551 - 47325 000
Lease Date:	December 1, 1998
Lease Term:	10 years
Lessor:	United States of America
Present Lessee:	100% Richardson Production Company
Description of Land Committed:	Township 29 North, Range 14 West, NMPM Section 8: NW/4NW/4
Number of Acres:	40.00 gross, 40.00 net
Royalty Rate:	12.5%
Name and Percent ORRI Owners:	None
Name and Percent WI Owners:	100% Richardson Production Company
	Tract No. II
Lease Serial No.:	Fee 47317 001
Lease Date:	April 14, 1998
Lease Term:	5 years
Lessor:	Anne Burrows Church, a widow (50%)

ROPCO 8-2 well Page 7

. Present Lessee:

100% Richardson Production Company

Description of Land Committed:

Township 29 North, Range 14 West, NMPM

Section 8: S/2NW/4, NE/4NW/4

Number of Acres:

120.00 gross, 60.000 net

Royalty Rate:

12.5%

Name and Percent ORRI Owners:

**NONE** 

Name and Percent WI Owners:

100%

Richardson Production Company

Pooling Clause:

Lease contains a provision authorizing pooling in accordance with the requirement of the agreement.

Lease Serial No.:

Fee -

Lease Date:

April 14, 1998

47317002

Lease Term:

5 years

Lessor:

Eva Thompson Burrows, a widow (50%)

Present Lessee:

100% Richardson Production Company

Description of Land Committed:

Township 29 North, Range 14 West, NMPM

Section 8: S/2NW/4, NE/4NW/4

Number of Acres:

120.00 gross, 60.000 net

Royalty Rate:

12.5%

Name and Percent ORRI Owners:

**NONE** 

Name and Percent WI Owners:

100%

Richardson Production Company

**Pooling Clause:** 

Lease contains a provision authorizing pooling in accordance

with the requirement of the agreement.

# RECAPITULATION

Tract No.	No. of Acres Committed	Percentage of Interest in Communitized Area
Hactivo.	Commuted	iii Communicized Area
1	40.000	25.000%
2	<u>120.000</u>	<u>75.000%</u>
	160.00	100.000%

# DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT** CASE RECORDATION

RunDate/Time:

06/26/1990

575

APD FILED

02/19/09 02:12 PM

(MASS) Serial Register Page

Page 1 of 3

01 02-25-1920;041STAT0437;30USC226 **Total Acres** Serial Number 2,523.720 NMSF-- 0 079968 Case Type 311111: O&G LSE NONCOMP PUB LAND Commodity 459: OIL & GAS Case Disposition: AUTHORIZED Serial Number: NMSF-- 0 079968 Name & Address Int Rel % Interest CONOCOPHILLIPS CO. PO BOX 7500 **BARTLESVILLE OK 74005** LESSEE 100.000000000 CONOCOPHILLIPS CO PO BOX 7500 **BARTLESVILLE OK 74005 OPERATING RIGHTS** 0.000000000 LANCE OIL & GAS CO 1099 18TH ST #1200 DENVER CO 802021955 **OPERATING RIGHTS** 0.000000000 RICHARDSON OPERATING CO 6400 S FIDDLER'S GREEN #1330 **GREENWOOD VILLAGE CO 80111 OPERATING RIGHTS** 0.000000000 **XTO ENERGY INC** 810 HOUSTON ST #2000 FT WORTH TX 761026298 **OPERATING RIGHTS** 0.000000000 Serial Number: NMSF-- 0 079968 STyp SNr Suff Subdivision Mer Twp Rng Sec District/Resource Area County **Mgmt Agency** 23 0290N 0140W 003 ALIC S2NW,N2SW,SWSW; FARMINGTON FO SAN JUAN BUREAU OF LAND MGMT 23 0290N 0140W 003 LOT **FARMINGTON FO** SAN JUAN BUREAU OF LAND MGMT 23 0290N 0140W 004 ALIC S2N2.S2: **FARMINGTON FO** SAN JUAN BUREAU OF LAND MGMT 23 0290N 0140W 004 LOTS 1,2,3,4; **FARMINGTON FO** SAN JUAN BUREAU OF LAND MGMT 23 0290N 0140W 005 ALIC. S2N2,N2SW,SWSW,SE; **FARMINGTON FO** SAN JUAN BUREAU OF LAND MGMT LOT 23 0290N 0140W 005 1-4; **FARMINGTON FO** SAN JUAN BUREAU OF LAND MGMT 23 0290N 0140W 008 ALIC N2NE; **FARMINGTON FO** SAN JUAN BUREAU OF LAND MGMT 23 0290N 0140W 009 ALIC N2NE, SENE, NW, E2SE; SAN JUAN **FARMINGTON FO** BUREAU OF LAND MGMT 23 0290N 0140W 010 ALIC W2NW: **FARMINGTON FO** SAN JUAN BUREAU OF LAND MGMT 23 0300N 0140W 033 ALIC N2,N2SW,NESE; **FARMINGTON FO** SAN JUAN BUREAU OF LAND MGMT 23 0300N 0140W 033 LOT! 3,4; **FARMINGTON FO** SAN JUAN BUREAU OF LAND MGMT Relinquished/Withdrawn Lands Serial Number: NMSF-- 0 079968 23 0300N 0140W 720 FF SENE REJ: **FARMINGTON FO** SAN JUAN **BUREAU OF LAND** Serial Number: NMSF-- 0 079968 Pending Office Action Remarks Act Date Code Action 01/21/1948 124 APLN RECD 05/01/1951 237 LEASE ISSUED 05/23/1951 126 APLN REJ/DEN IN PART 07/01/1951 496 05;145003 FUND CODE 07/01/1951 530 RLTY RATE - 12 1/2% 07/01/1951 868 EFFECTIVE DATE 11/27/1958 102 NOTICE SENT-PROD STATUS 909 10/19/1963 BOND ACCEPTED EFF 09/27/63:ES0085 06/10/1970 246 LEASE COMMITTED TO CA SW631; 05/03/1976 246 LEASE COMMITTED TO CA SRM1116: 06/01/1984 246 LEASE COMMITTED TO CA NMNM76324: 04/23/1986 140 ASGN FILED MESA PETRO/OPER LTD 04/23/1986 932 TRF OPER RGTS FILED 08/04/1986 139 EFF 05/01/86; ASGN APPROVED 08/04/1986 933 TRF OPER RGTS APPROVED EFF 05/01/86; 08/11/1986 963 CASE MICROFILMED CNUM 103,398 AD 974 04/04/1988 AUTOMATED RECORD VERTE GLC/CB 02/12/1990 575 APD FILED

> NO WARRANTY IS MADE BY BLM FOR USE OF THE DATA FOR **PURPOSES NOT INTENDED BY BLM**

# **DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT CASE RECORDATION**

RunDate/Time:

02/19/09 02:12 PM

(MASS) Serial Register Page

01 02-25-1920;041STAT0437;30USC226 **Total Acres** Serial Number NMSF-- 0 079968 Case Type 311111: O&G LSE NONCOMP PUB LAND 2,523.720

Commodity 459: OIL & GAS

**Case Disposition: AUTHORIZED** 

	Serial Number	: NMSF 0 079968
Name & Address		

Name & Address			Int Rel	% Interest
CONOCOPHILLIPS CO	PO BOX 7500	BARTLESVILLE OK 74005	LESSEE	100.000000000
CONOCOPHILLIPS CO	PO BOX 7500	BARTLESVILLE OK 74005	OPERATING RIGHTS	0.000000000
LANCE OIL & GAS CO	1099 18TH ST #1200	DENVER CO 802021955	OPERATING RIGHTS	0.000000000
RICHARDSON OPERATING CO	6400 S FIDDLER'S GREEN #1330	GREENWOOD VILLAGE CO 80111	OPERATING RIGHTS	0.000000000
XTO ENERGY INC	810 HOUSTON ST #2000	FT WORTH TX 761026298	OPERATING RIGHTS	0.000000000

Serial Number: NMSF-- 0 079968

Page 1 of 3

Mer Twp Rng Sec	STyp SNr S	Suff Subdivision	District/Resource Area	County	Mgmt Agency
23 0290N 0140W 003	ALIC	S2NW,N2SW,SWSW;	FARMINGTON FO	SAN JUAN	BUREAU OF LAND MGMT
23 0290N 0140W 003	LOT:	3,4;	FARMINGTON FO	SAN JUAN	BUREAU OF LAND MGMT
23 0290N 0140W 004	ALIC	S2N2,S2;	FARMINGTON FO	SAN JUAN	BUREAU OF LAND MGMT
23 0290N 0140W 004	LOT:	1,2,3,4;	FARMINGTON FO	SAN JUAN	<b>BUREAU OF LAND MGMT</b>
23 0290N 0140W 005	ALIC	S2N2,N2SW,SWSW,SE;	FARMINGTON FO	SAN JUAN	BUREAU OF LAND MGMT
23 0290N 0140W 005	LOT:	1-4;	FARMINGTON FO	SAN JUAN	BUREAU OF LAND MGMT
23 0290N 0140W 008	ALIC	N2NE;	FARMINGTON FO	SAN JUAN	BUREAU OF LAND MGMT
23 0290N 0140W 009	ALIC	N2NE,SENE,NW,E2SE;	FARMINGTON FO	SAN JUAN	BUREAU OF LAND MGMT
23 0290N 0140W 010	ALIC	W2NW;	FARMINGTON FO	SAN JUAN	BUREAU OF LAND MGMT
23 0300N 0140W 033	ALIC	N2,N2SW,NESE;	FARMINGTON FO	SAN JUAN	BUREAU OF LAND MGMT
23 0300N 0140W 033	LOT:	3,4;	FARMINGTON FO	SAN JUAN	BUREAU OF LAND MGMT

Relinquished/Withdrawn Lands

06/26/1990

575

APD FILED

Serial Number: NMSF-- 0 079968

23 0300N 0140W 720 SENE REJ; **FARMINGTON FO** SAN JUAN **BUREAU OF LAND** 

Serial Number: NMSF-- 0 079968

			Serial	Number: NMSr 0 0/99
Act Date	Code	Action	Action Remarks	Pending Office
01/21/1948	124	APLN RECD		
05/01/1951	237	LEASE ISSUED		
05/23/1951	126	APLN REJ/DEN IN PART		
07/01/1951	496	FUND CODE	05;145003	
07/01/1951	530	RLTY RATE - 12 1/2%		
07/01/1951	868	EFFECTIVE DATE		
11/27/1958	102	NOTICE SENT-PROD STATUS		
10/19/1963	909	BOND ACCEPTED	EFF 09/27/63;ES0085	
06/10/1970	246	LEASE COMMITTED TO CA	SW631;	
05/03/1976	246	LEASE COMMITTED TO CA	SRM1116;	
06/01/1984	246	LEASE COMMITTED TO CA	NMNM76324;	
04/23/1986	140	ASGN FILED	MESA PETRO/OPER LTD	
04/23/1986	932	TRF OPER RGTS FILED		
08/04/1986	139	ASGN APPROVED	EFF 05/01/86;	
08/04/1986	933	TRF OPER RGTS APPROVED	EFF 05/01/86;	
08/11/1986	963	CASE MICROFILMED	CNUM 103,398 A	D
04/04/1988	974	AUTOMATED RECORD VERIF	GLC/C	В
02/12/1990	575	APD FILED		

NO WARRANTY IS MADE BY BLM FOR USE OF THE DATA FOR **PURPOSES NOT INTENDED BY BLM** 

## DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT CASE RECORDATION (MASS) Serial Register Page

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04/25/1996

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02/19/09 02:12 PM

01 02-25-1920;041STAT0437;30USC226 Total Acres Case Type 311111: O&G LSE NONCOMP PUB LAND 2,523.720 Commodity 459: OIL & GAS Case Disposition: AUTHORIZED 06/26/1990 575 APD FILED (1)06/26/1990 575 APD FILED (2) APD FILED 06/28/1990 575 06/29/1990 575 APD FILED 07/20/1990 575 APD FILED 576 08/01/1990 APD APPROVED 30 FC FEDERAL COM 08/01/1990 576 APD APPROVED 36 FC FEDERAL JC APD FILED 08/06/1990 575 08/24/1990 576 APD APPROVED 31 FC FED COM CLB 09/19/1990 576 APD APPROVED 14 FC FEDERAL JC 577 05/16/1991 APD WDN/TERM/CANC 32 FC FED COM CMG 05/16/1991 577 APD WDN/TERM/CANC 33 FC FED COM CMG 05/16/1991 577 APD WDN/TERM/CANC 34 FC FED COM CMG 05/16/1991 577 APD WDN/TERM/CANC 35 FC FED COM CMG 05/20/1991 140 ASGN FILED MESA OPER/CONOCO INC 05/20/1991 932 TRF OPER RGTS FILED MESA OPER/CONOCO INC 07/26/1991 933 TRF OPER RGTS APPROVED EFF 06/01/91; 07/26/1991 974 AUTOMATED RECORD VERIF SSP/AMR 07/31/1991 139 ASGN APPROVED EFF 06/01/91; 07/31/1991 974 AUTOMATED RECORD VERIF ST/KRP 10/07/1991 577 APD WDN/TERM/CANC 30 FC FED COM CLB 10/07/1991 577 APD WDN/TERM/CANC 31 FC FED COM CLB 10/07/1991 577 APD WDN/TERM/CANC 36 FC FED CLB 03/02/1992 932 TRF OPER RGTS FILED MESA OPER LTD/CONOCO 04/23/1992 933 TRF OPER RGTS APPROVED EFF 04/01/92; 04/23/1992 974 AUTOMATED RECORD VERIF ST/JS 10/05/1992 646 MEMO OF LAST PROD-ACTUAL 12/31/1995 235 EXTENDED THRU 12/31/97; 12/31/1995 522 CA TERMINATED SW-631; 02/08/1996 643 PRODUCTION DETERMINATION 111 02/08/1996 647 MEMO OF LAST PROD-ALLOC /1/NMNM74067;

PRODUCTION DETERMINATION

MEMO OF LAST PROD-ALLOC

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NO WARRANTY IS MADE BY BLM FOR USE OF THE DATA FOR PURPOSES NOT INTENDED BY BLM

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Page 2 of 3

Serial Number

NMSF-- 0 079968

## DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT CASE RECORDATION** (MASS) Serial Register Page

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01 02-25-1920;041STAT0437;30USC226 **Total Acres** Serial Number NMSF-- 0 079968 2,523.720 Case Type 311111: O&G LSE NONCOMP PUB LAND Commodity 459: OIL & GAS

Case Dispos	sition: A	UTHORIZED	
08/15/2000	576	APD APPROVED	1 WF FEDERAL 5
09/02/2000	246	LEASE COMMITTED TO CA	NMNM104847
09/21/2000	575	APD FILED	RICHARDSON OPER CO
09/26/2000	575	APD FILED	RICHARDSON OPER CO
10/05/2000	575	APD FILED	RICHARDSON OPER CO
10/12/2000	575	APD FILED	RICHARDSON OPER CO
11/02/2000	575	APD FILED	RICHARDSON OPER CO
11/13/2000	575	APD FILED	RICHARDSON OPER CO
11/16/2000	576	APD APPROVED	3 WF FEDERAL 33
11/30/2000	575	APD FILED	RICHARDSON OPER CO(1)
11/30/2000	575	APD FILED	RICHARDSON OPER CO(2)
11/30/2000	575	APD FILED	RICHARDSON OPER CO(3)
01/08/2001	246	LEASE COMMITTED TO CA	NMNM103036
01/31/2001	576	APD APPROVED	4 ROPCO 5
06/13/2001	246	LEASE COMMITTED TO CA	NMNM10309€
04/11/2002	246	LEASE COMMITTED TO CA	NMNM110461;
06/12/2002	246	LEASE COMMITTED TO CA	NMNM108218
01/16/2003	817	MERGER RECOGNIZED	CONOCO/CONOCOPHILLIPS
04/09/2003	650	HELD BY PROD - ACTUAL	
05/30/2003	643	PRODUCTION DETERMINATION	/1/
05/30/2003	658	MEMO OF 1ST PROD-ACTUAL	/1/SF079968;WF FED 1R
01/09/2004	246	LEASE COMMITTED TO CA	NMNM108219
01/09/2004	246	LEASE COMMITTED TO CA	NMNM108220
01/13/2004	246	LEASE COMMITTED TO CA	NMNM108224
01/26/2004	899	TRF OF ORR FILED	GREER TRST/RICHARDSON
07/28/2004	932	TRF OPER RGTS FILED	CONOCO/RICHARDSON OPE
08/19/2004	933	TRF OPER RGTS APPROVED	EFF 08/01/04;
08/19/2004	974	AUTOMATED RECORD VERIF	JLV
10/14/2004	246	LEASE COMMITTED TO CA	NMNM108261
10/14/2004	932	TRF OPER RGTS FILED	RICHARDSO/LANCE OIL
12/08/2004	933	TRF OPER RGTS APPROVED	EFF 11/01/04;
12/08/2004	974	AUTOMATED RECORD VERIF	MV
03/16/2005	246	LEASE COMMITTED TO CA	NMNM108217
05/05/2005	246	LEASE COMMITTED TO CA	NMNM11059€
08/23/2005	246	LEASE COMMITTED TO CA	NMNM108222;ROPCO 8 #1
08/24/2005	246	LEASE COMMITTED TO CA	NMNM108221;ROPCO 8 #1
05/23/2007	932	TRF OPER RGTS FILED	LANCE O&G/XTO ENERG;1
06/15/2007	899	TRF OF ORR FILED	1
07/25/2007	933	TRF OPER RGTS APPROVED	EFF 06/01/07;
07/25/2007	974	AUTOMATED RECORD VERIF	MV
Line Nr	Remar	ks	Serial Number: NMSF 0 079968
0002	NMSF07	9968 HELD BY ALLOCATED PROD FROM NMNM	26324.

Line Nr	Remarks .	Serial Number:	NMSF-
0002	NMSF079968 HELD BY ALLOCATED PROD FROM NMNM76324.		
0003	08/19/04-LESSEE-CONOCOPHILLIPS CO ES0048 NW		

12/08/2004 LANCE BONDED TRANSFEREE WYB000112/NW

NO WARRANTY IS MADE BY BLM FOR USE OF THE DATA FOR **PURPOSES NOT INTENDED BY BLM**  Page 3 of 3



April 20, 2009

Conoco/Phillips Burlington Resources Oil & Gas LP 3401 East 30<sup>th</sup> Farmington, NM 87402

Re:

XTO Energy, Inc. Application for Authorization to Inject

Salty Dog No. 2

NW/4SE/4, Section 5, T29N-R14W San Juan County, New Mexico

To Whom It May Concern:

As a leasehold owner within one-half mile of the proposed Salty Dog No. 2 disposal well, you are being notified of our Application for Authorization to Inject. XTO seeks to dispose of water produced from the Fruitland Coal and Pictured Cliffs formations into the Mesaverde formation.

Interested parties must file objections or requests for hearing with the NM Oil Conservation Division, 1220 South Saint Francis Dr., Santa Fe, NM 87505 within 15 days.

Additional information may be obtained by contacting Loren Fothergill, 382 CR 3100, Aztec, NM 87410, (505) 333-3100.

Yours truly,

Diane Jaramillo

Supervisor, Accounting/Engineering Techs

SENDER: COMPLETE THIS SECTION  Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.  Print your name and address on the reverse so that we can return the card to you.  Attach this card to the back of the mailpiece, or on the front if space permits.  1. Article Addressed to:  CONCOL PULLES  BBDG	A. Signature  A. Signature  A. Signature  Agent  Addressee  B. Received by Printed Name)  C. Date of Delivery  Addressee  C. Date of Delivery  Addressee  B. Received by Printed Name)  C. Date of Delivery  Addressee  C. Date of Delivery  Addressee  Diff Yes, enter delivery address below:
3401 East 30th	3. Service Type
J401 East 30th Farmington, NW 87402	☐ Registered ☐ Express Mail ☐ Registered ☐ Return Receipt for Merchandise ☐ C.O.D.
	4. Restricted Delivery? (Extra Fee)
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	City, State, ZIP+4	Annington, NM 87401
	PS Form 3800. June 200	2 ** See Reverse for Instructions



April 20, 2009

Western Gas Resources 1099 18<sup>th</sup> Street, Suite 1200 Denver, CO 80202

Re:

XTO Energy, Inc. Application for Authorization to Inject

Salty Dog No. 2

NW/4SE/4, Section 5, T29N-R14W San Juan County, New Mexico

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Yours truly,

Diane Jaramillo

Supervisor, Accounting/Engineering Techs

<u>:</u>		
SENDER: COMPLETE-THIS SECTION  Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.  Print your name and address on the reverse so that we can return the card to you.  Attach this card to the back of the mailpiece, or on the front if space permits.	A. Signature  X B. Received by (Printed Name)  D. Is delivery address different from item If YES, enter delivery address below	☐ Agent ☐ Addressee C. Date of Delivery
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#### AFFIDAVIT OF PUBLICATION

Ad No. 61485

# STATE OF NEW MEXICO **County of San Juan:**

TIA AVILES, being duly sworn says: That she is the CLASSIFIED MANAGER of THE DAILY TIMES, a daily newspaper of general circulation published in English at Farmington, said county and state, and that the hereto attached Legal Notice was published in a regular and entire issue of the said DAILY TIMES, a daily newspaper duly qualified for the purpose within the meaning of Chapter 167 of the 1937 Session Laws of the State of New Mexico for publication and appeared in the Internet at The Daily Times web site on the following day(s):

Wednesday, April 22, 2009

And the cost of the publication is \$56.71

TIA AVILES appeared before me, whom I know personally to be the person who signed the above document.

Christine & My Commission Expires November 05, 2011

#### **COPY OF PUBLICATION**

#### Public Notice

XTO Energy Inc. is applying with the New Mexico Oil Conservation Division (NMOCD) for approval to inject water int o the Salty Dog #2 SWD well. The Salty Dog #2 SWD wells is located at 1495' FSL & 1477' FEL, Sec 5, T29N-R14W, San Juan County, NM. The well will dispose of water produced from oil and gas wells into the Mesa Verde formation at a depth of 2,388' to 3,096' at a maximum rate of 1,000 barrels of water per day and a maximum pressure of 1,300 psi. Interested parties must file objections or requests fro hearing with the NM Oil Conservation Division, 1220, South Saint Franis Drive, Santa Fe, NM 87505, within 15 days. Additional information can be obtained by contacting Loren Fothergill, 382 CR 3100, Aztec, NM 87410, (505) 333-3100.

Legal No. 61485 published in The Daily Times, Farmington, New Mexico on Wednesday, April 29, 2009



382 Road 3100 Aztec, New Mexico 87410 Phone: (505) 333-3100 FAX: (505) 333-3280

January 16, 2009

State of New Mexico
Oil Conservation Division
Mr. William Jones
1220 South Saint Francis Drive
Santa Fe, New Mexico 87505

Re:

Salt Water Disposal Application

Salty Dog No. 2 Well

Section 5, Township 29 North, Range 14 West, NMPM

San Juan County, New Mexico

Dear Mr. Jones:

XTO Energy Inc. is resubmitting the application for the referenced salt-water disposal well, due to the well not injecting within a one-year period. Enclosed please find one original and one copy of the complete Salt Water Disposal Application. A copy has been furnished to the Aztec OCD Office and the Farmington BLM Office.

This well was completed in the Blanco Mesaverde field on January 6, 2002. XTO owns the surface where this well is located.

There is only one well which penetrates the injection zone within one half mile of the Salty Dog No. 2 location. The plugged and abandoned Pubco-Carr Russell Federal No. 1 well is located in the NE/4NE/4 of Section 8, T29N, R14W. The five wells within the area of review are Fruiltand Coal wells operated by XTO Energy. Pertinent well records are attached.

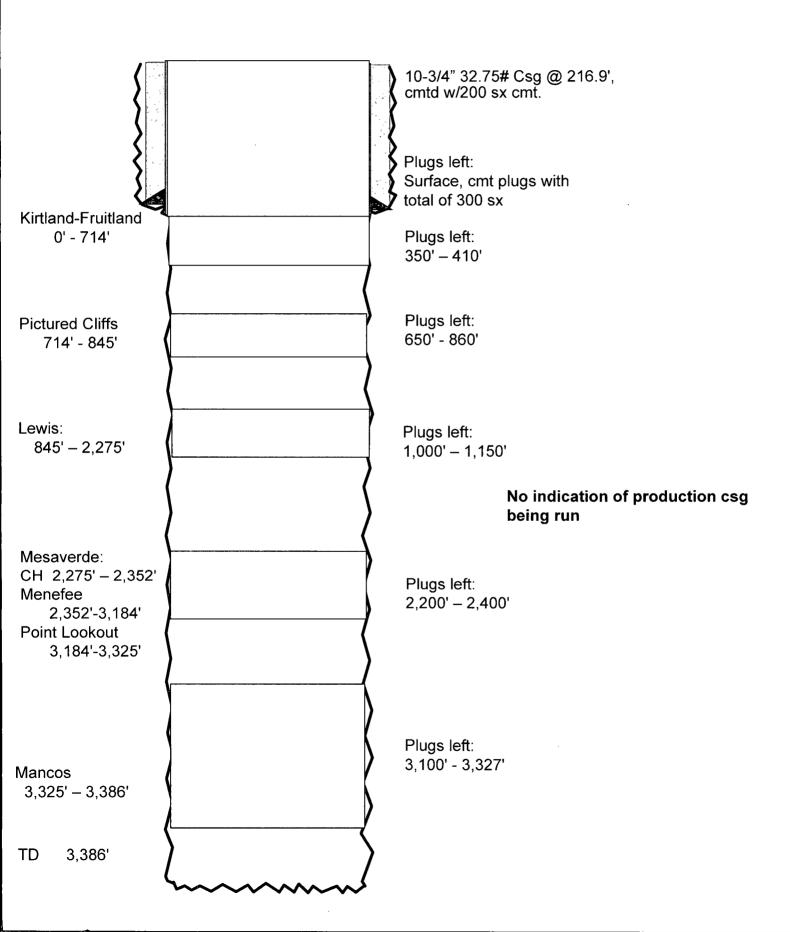
Information from the State Engineer's Office in Aztec indicates there are no shallow fresh water wells within one half mile of the Salty Dog No. 2 location.

Should you require further documentation please feel free to call my office @ 505-333-3100 or e-mail <u>Diane Jaramillo@xtoenergy.com</u> and I will be happy to furnish any additional information.

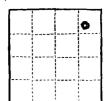
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# Rubco-Carr-Russel Federal #1

Sec 8, T29N-R14W 790' FNL & 990' FEL Plugged 1/26/60 GL: 5,332.4'



Form 9-881a (Feb. 1951)



#### (SUBMIT IN TRIPLICATE)

### UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

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OTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	1 11
OTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING
OTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING

(Field) (County or Subdivision)

The elevation of the defice with above sea level is 23.2 •• ft.

#### DETAILS OF WORK

(Range

(State names of and expected depths to objective sends; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Plugging has been exemplished as verbelly approved by Mr. Phil Medyphy Tod. S. on August 86, 1976.

Plage left:

Selection 8

( Sec. and Sec. No.)

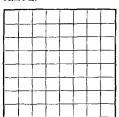
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DEPARTMENT OF THE INTERIOR ( ) GRALL DIRECTOR OF A CONTRACT

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#### EXHIBIT "3"

#### XTO ENERGY INC. OPERATIONS PLAN SALTY DOG #2

I. Location:

Section 5, Township 29 North, Range 14 West, NMPM

1495' FSL and 1477' FEL San Juan County, NM

Field:

Blanco Mesaverde

Elevation:

5297'

Surface: Minerals:

Fee – XTO Energy, Inc. Federal NMSF-079968

II. Geology:

Formation Tops	Depth
Fruitland Coal	684 feet
Pictured Cliffs	698 feet
Lewis Shale	883 feet
Charca	1690 feet
Cliff House	2267 feet
Menefee	2300 feet
Point Lookout	3231 feet
Total Depth	3616 feet

Estimated depths of anticipated water, oil, gas and other mineral bearing formations which are expected to be encountered:

Water and gas: 684 feet Fruitland Coal

698 feet Pictured Cliffs

Water: 2267 feet Cliff House 3231 feet Point Lookout

A. Logging Program: Induction/GR and Density Logs at TD

B. The maximum expected bottom hole pressure is 400 psi.
This pressure will be contained as specified in III B. and C. below. No overpressured zones are expected in this well.

No H2S zones are anticipated in this well.

III. Surface Csg:

8-5/8" 24#, J-55 Csg @ 251', hole cemented with 110 sx

with CL B cmt. Circ cmt to surf.

Production Csg: 5-1/2" 15.5#, K-55 Csg @ 3,612'. Cmt'd w/165 sx CL B

Cmt with 2% metasilicated (12.5 ppg, 2.06 cuft/sx). Tailed in with 177 sx CL B cmt with 3#/sx gilsonite & ½#/sx celloflake (15.6 ppg, 1.18 cuft/sx). Circ 8 bbls cmt to surf.

Tubing:

. #

2-7/8" 6.5#, J-55 Tbg, EOT @ 2,310'. Baker 5-1/2" x

2-7/8 Lok-Set Pkr @ 2,310'.

Stimulation:

Perforated MV as follows: 2,388'-2,395', 2,464'-2,472', 2,478-2,484', 2,556'-2,566', 2,730'-2,738', 2,790'-2,807, 2,914'-2,954', 3,088'-3,096' w/4 SPF, (120 Deg phasing, 0.38" dia, 21" pene). Perf with 2,500 gals 7.5% HCL w/550 ball sealers 1.35g, ISDP 1,145 psig, 5" SIP – 948 psig. 10" SIP - 907 psig, 15" SIP - 866 psig.

IV. Operations:

Average Daily Rate: 1,000 bwpd Maximum Daily Rate: 1,000 bwpd

Maximum Daily Rate: 1,000 System is closed:

Average Injection Pressure: 1,000 psi Maximum Injection Pressure: 1,300 psi

Source of water to be injected is from Fruitland Coal and Pictured Cliffs wells in the area. Representative samples of this water are included in this report.

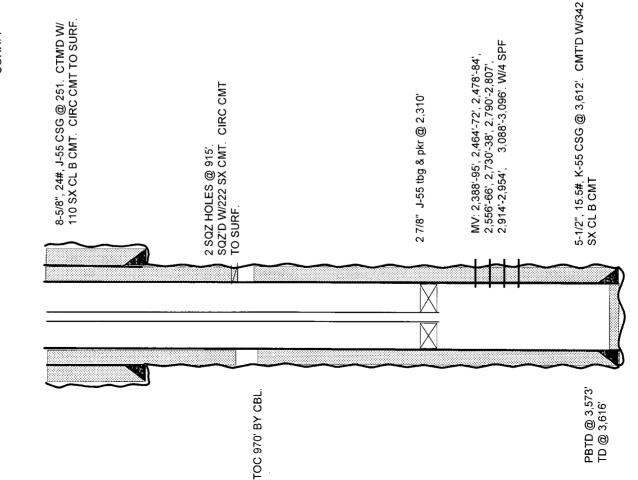
A water sample from the Mesaverde taken from the Stella Needs A Com #1E well, located in the NE/4SW/4 of Section 36, Township 30 North, Range 14 West, is also included in this report.

Geological data from the disposal zone is presented in Administrative Order SWD-595.

There are no fresh water wells within one mile of this location.

Examination of available geologic and engineering data reveals no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.

GL: 5,297' CORR: 7' KB: 5304'



# WELLBORE DIAGRAM Salty Dog #2 (SWD)

### DATA

OCATION: 1,495' FSL & 1,477' FEL. SEC 5-T29N-R14W

COUNTY/STATE: SAN JUAN, NEW MEXICO FIELD: SWD MESAVERDE

FEDERAL LEASE#: NMSF 079968 FORMATION: MESAVERDE

<u>API#:</u> 30- 045-30812 <u>XTO WELL#:</u> <u>SPUD DATE:</u> 12/13/01 <u>COMPLETION DATE:</u> <u>PERFS:</u> 2,388'-95', 2,464'-72', 2,478'-84', 2,556'-66', 2,730'-38', 2,790'-2,807', 2,914'-2,954', 3,088'-3,096'. W/4 SPF

<u>IBG:</u> 2-7/8", 6.5#, J-55 TBG. EOT @ 2,310'. BAKER 5-1/2" X 2-7/8" LOK-SET PKR @ 2,310'. PROD METHOD: SI

### HISTORY

12/13/01: MIRU DRLG CO. SPUDDED 9-3/4" HOLE TD HOLE @ 260'. SET 8-5/8", 24#, J-55 CSG @ 251. CTM'D W/110 SX CL B CMT. CIRC CMT TO SURF.

01/06/02: TD 6-3/4" HOLE @ 3,616'.
01/07/02: SET 5-1/2", 15.5#, K-55 CSG @ 3,612'. CMT'D W/165 SX CL B CMT W/2%
METASILICATED (12.5 PPG, 2.06 CUFT/SX). TAILED IN W/177 SX CL B CMT W/3#/SX
GILSONITE & 1/4#/SX CELLOFLAKE (15.6 PPG, 1.18 CUFT/SX). CIRC 8 BBLS CMT

TO SURF.

01/10/02: RAN CBL. TOC @ 970'.
01/11/02: MIRU WL. SET CIBP @ 930'. PERF WELL @ 915' W/2 JSPF. TIH W/MODEL R PKR & SET @ 750'. SQZD PERFS W/222 SX CL B CMT W/2% METASILICATED & 2% CACL2. CIRC CMT TO SURF. REL PKR. TOH W/TBG & PKR.

34/12/02; TIH & TGD CMT @ 853. DO CMT TO 920. PT'S CSG & SQZ HOLES TO 1,000 PSIG.

HELD OK.

01/14/02: DRLG ON CIBP.

02/06/02: MIRU WIRELINE LOGGING UNIT. 02/08/02: PERF'D MV AS FOLLOWS: 2,388':

PERF'D MV AS FOLLOWS: 2,388-95; 2,464-72; 2,478-84; 2,556-66; 2,730-38; 2,790'-2,807; 2,914-2,954; 3,088-3,096' W/4 SPF, (120 DEG PHASING, 0.38" DIA, 21" PENE). TIH W/ 5-1/2" PKR & 100 JTS 2-7/8", J-55 TBG. SET PKR @ 2,310'.

BD PERFS FR/2,388-3,096' @ 1,650 PSIG.A. PERFS W/2,500 GALS 7.5% HCL W/550 BALL SEALERS 1.35G. ISDP-1,145 PSIG, 5" SIP-948 PSIG, 10" SIP-907 PSIG, 15" SIP 32/09/02:

03/01/02: RAN STEP RATE TEST. MAX INJ PRES 2,262.7 PSIG @ 2,954'. MAX AIR 7.629 BPM. 2-7/8", 6.5 #, J-55 TBG. EOT @ 2,310'. BAKER 5-1/2" X 2-7/8" LOK-SET PKR @ 2,310'. 03/15/02: INJECTION PRESSURE INCREASED TO 1,050 PSIG.

11/21/02: RAN STEP RATE TEST.

**12/01/02:** INJECTION PRESSURE INCREASED TO 1,300 PSIG. **06/14/07:** MIT TEST PERFORMED. PT'D CSG TO 380 PSIG FOR 30". HELD OK.

#### Jones, William V., EMNRD

From:

Jones, William V., EMNRD

Sent:

Monday, February 16, 2009 4:28 PM

To:

'Diane\_Jaramillo@xtoenergy.com'

Cc:

Ezeanyim, Richard, EMNRD; Warnell, Terry G, EMNRD; Hayden, Steven, EMNRD; Perrin,

Charlie, EMNRD

Subject:

Disposal Application from XTO: Salty Dog #2 30-045-30812 (renewal of SWD-811)

#### Hello Diane:

After reviewing this application to inject (renewal of SWD-811), we found this permit application to almost be a duplicate of the one in 2001. XTO must update the application including the land details and formal "notice".

- 1) Please draw the ½ mile radius around this well and have your land department inform you of all surrounding owners in the Mesaverde formation.
  - a. List each tract wholly or partially contained in this ½ mile AOR and the owners ("affected parties") in each tract
  - b. Send proof these affected parties were noticed of this most recent application
  - c. Send proof the surface owner was provided a complete copy of this application
  - d. Send a copy of the newspaper notice done within the past few months
- 2) Send a wellbore diagram of the plugged well which is located within the Area of Review.
- 3) The data on your initial pages of the application does not match the data on the actual wellbore diagram please correct.

#### **REMARKS:**

It appears, the OCD will grant the 1,300 psi injection pressure limit based on previous step rate test and application, It appears the OCD will grant injection from 2388 to 3096 feet, but not any higher than 2388 because of salinity concerns. Please be aware, this well's injection interval is very tight – Richardson was not satisfied with the injectivity into this well.

Regards,

William V. Jones PE New Mexico Oil Conservation Division 1220 South St. Francis Santa Fe, NM 87505 505-476-3448 - not weed inplay of 3/1/09



382 Road 3100 Aztec, New Mexico 87410 Phone: (505) 333-3100 FAX: (505) 333-3280

January 16, 2009

State of New Mexico
Oil Conservation Division
Mr. William Jones
1220 South Saint Francis Drive
Santa Fe. New Mexico 87505

Re:

Salt Water Disposal Application

Salty Dog No. 2 Well

Section 5, Township 29 North, Range 14 West, NMPM

San Juan County, New Mexico

Dear Mr. Jones:

XTO Energy Inc. is resubmitting the application for the referenced salt-water disposal well, due to the well not injecting within a one-year period. Enclosed please find one original and one copy of the complete Salt Water Disposal Application. A copy has been furnished to the Aztec OCD Office and the Farmington BLM Office.

This well was completed in the Blanco Mesaverde field on January 6, 2002. XTO owns the surface where this well is located.

There is only one well which penetrates the injection zone within one half mile of the Salty Dog No. 2 location. The plugged and abandoned Pubco-Carr Russell Federal No. 1 well is located in the NE/4NE/4 of Section 8, T29N, R14W. The five wells within the area of review are Fruiltand Coal wells operated by XTO Energy. Pertinent well records are attached.

Information from the State Engineer's Office in Aztec indicates there are no shallow fresh water wells within one half mile of the Salty Dog No. 2 location.

Should you require further documentation please feel free to call my office @ 505-333-3100 or e-mail Diane Jaramillo@xtoenergy.com and I will be happy to furnish any additional information.

Mr. Loren Fothergill is the engineer in charge should you need clarification of engineering data and is available at the number listed above.

Yours truly

Diane Jarami**ll**o

Supervisor, Engineering Techs/Accounting

CC: Aztec OCD

BLM - Farmington

New Mexico Oil Conservation Division January 16, 2009 Page 2

Exhibit 10 Proof of Notice

#### List of Exhibits to Application for Authorization to Inject C-108:

Exhibit 1	Well and Lease Plat – 2 mile radius
Exhibit 2	Well Records – Pubco-Carr Russell Federal No.1
Exhibit 3	Operations Plan
Exhibit 4	Injection Well Data Sheet
Exhibit 5	Wellbore Diagram
Exhibit 6	Survey Plat and Well Pad
Exhibit 7	Water Analysis: Mesaverde
Exhibit 8	Water Analysis: Fruitland Coal and Pictured Cliffs
Exhibit 9	Affidavit of Publication

DATE IN	SUSPENSE	ENGINEER	LOGGED IN	TYPE	APP NO.

ABOVE THIS LINE FOR DIVISION USE ONLY

#### NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -





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] Location - Spacing Unit - Simultaneous Dedication [A]  $\square$  NSL  $\square$  NSP  $\square$  SD Check One Only for [B] or [C] Commingling - Storage - Measurement [B]☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM Injection - Disposal - Pressure Increase - Enhanced Oil Recovery [C] □ WFX □ PMX ⊠ SWD □ IPI □ EOR □ PPR [D] Other: Specify [2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or  $\square$  Does Not Apply Working, Royalty or Overriding Royalty Interest Owners [A] [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. **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. Joren w Fatherfull Sr. Production Engineer Loren Fothergill Print or Type Name Loren Fothergill@xtoenergy.com

e-mail Address

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-108 Revised June 10, 2003

#### **APPLICATION FOR AUTHORIZATION TO INJECT**

Ι.	PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage Application qualifies for administrative approval? Yes No
II.	OPERATOR: XTO Energy, Inc.
	ADDRESS: 382 CR 3100, Aztec, NM 87410
	CONTACT PARTY: Loren Fothergill PHONE: 505-333-3100
Ш.	WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.  Additional sheets may be attached if necessary.
IV.	Is this an expansion of an existing project? Yes X No  If yes, give the Division order number authorizing the project:
V.	Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
VI.	Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
VII.	Attach data on the proposed operation, including:
	<ol> <li>Proposed average and maximum daily rate and volume of fluids to be injected;</li> <li>Whether the system is open or closed;</li> <li>Proposed average and maximum injection pressure;</li> <li>Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,</li> <li>If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).</li> </ol>
*VIII.	Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters wit total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
IX.	Describe the proposed stimulation program, if any.
*X.	Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted
*XI.	Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
XII.	Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
XIII.	Applicants must complete the "Proof of Notice" section on the reverse side of this form.
XIV.	Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
	NAME: Loren Fothergill TITLE: Sr. Production Engineer
	NAME: Loren Fothergill  SIGNATURE: Loren in T-othergill  DATE: 1-16-09
*	E-MAIL ADDRESS:Loren_Fothergill@xtoenergy.com  If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal:

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

#### III. WELL DATA

- A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:
  - (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
  - (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
  - (3) A description of the tubing to be used including its size, lining material, and setting depth.
  - (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

- B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.
  - (1) The name of the injection formation and, if applicable, the field or pool name.
  - (2) The injection interval and whether it is perforated or open-hole.
  - (3) State if the well was drilled for injection or, if not, the original purpose of the well.
  - (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
  - (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

#### XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

WELL NAME & NUMBER: Salty Dog No. 2

WELL LOCATION:

OPERATOR: XTO Energy, Inc.

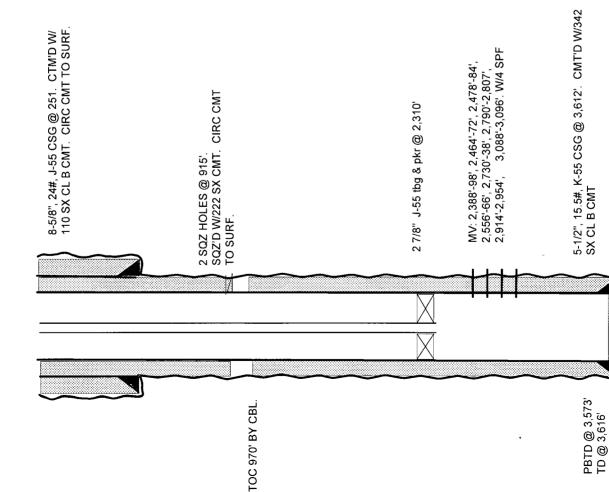
WELLBORE SCHEMATIC

ER: Salty Dog No. 2				
1495' FSL & 1477' FEL FOOTAGE LOCATION	J UNIT LETTER	SECTION	29N TOWNSHIP	14W RANGE
ORE SCHEMATIC		WELL CONSTR Surface Casing	WELL CONSTRUCTION DATA Surface Casing	
	Hole Size: 9 7/8  Cemented with: 38  Top of Cement: Surface		Casing Size: 8 5/8, 2  or 50  Method Determined:	24#
		Intermediate Casing	e Casing	
	Hole Size:		Casing Size:	
	Cemented with:	SX.	or	ft <sup>3</sup>
	Top of Cement:		Method Determined:	
		Production Casing	Casing	
	Hole Size: 63/4		Casing Size: 5 ½, 15.5#	
	Cemented with: 185+130	130 sx.	200	H <sub>3</sub>
S	Total Depth: 3700'		Method Determined:	
	S. S	Injection Interval	<u>interval</u>	
	MV parts: 2200	-3580'	feet To_perforated	
	, (Pe	rforated or Open H	(Perforated or Open Hole; indicate which)	

# INJECTION WELL DATA SHEET

Tuk	Tubing Size: 2 7/8", 6.4#, J-55	Lining Material: None
Ty	Type of Packer: 5 1/2" x 2 7/8"	
Pac	Packer Setting Depth: 2150' estimate	1
Oth	Other Type of Tubing/Casing Seal (if applicable): $\overline{ ext{N/A}}$	licable): N/A
		Additional Data
<del>.</del>	Is this a new well drilled for injection?	1? X Yes No
	If no, for what purpose was the well originally drilled?	originally drilled?
5.	Name of the Injection Formation: Mesaverde	Mesaverde
w. 4.	Name of Field or Pool (if applicable): Blanco Mesaverde Has the well ever been perforated in any other zone(s)? Lintervals and give plugging detail, i.e. sacks of cement or J	Name of Field or Pool (if applicable): Blanco Mesaverde Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. No
5.	Give the name and depths of any oil injection zone in this area:	Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
	Pictured Cliffs 800'	
	Gallup 5000'	

GL: 5,297' KB: 5304' CORR: 7'



# WELLBORE DIAGRAM Salty Dog #2 (SWD)

### DATA

OCATION: 1,495' FSL & 1,477' FEL. SEC 5-T29N-R14W

COUNTY/STATE: SAN JUAN, NEW MEXICO

FIELD: SWD MESAVERDE

FEDERAL LEASE#: NMSF 079968 FORMATION: MESAVERDE

API#: 30-045-30812

XTO WELL#:
COMPLETION DATE: **SPUD DATE: 12/13/01** 

PERFS: 2,388'-98', 2,464'-72', 2,478'-84', 2,556'-66', 2,730'-38', 2,790'-2,807', 2,914'-2,954', 3.088'-3.096', W/4 SPF

IBG: 2-7/8", 6.5#, J-55 TBG. EOT @ 2,310'. BAKER 5-1/2" X 2-7/8" LOK-SET PKR @ 2,310'. PROD METHOD: SI

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SET 5-1/2", 15.5#, K-55 CSG @ 3,612'. CMT'D W/165 SX CL B CMT W/2% METASILICATED (12.5 PPG, 2.06 CUFT/SX). TAILED IN W/177 SX CL B CMIENWISH/SX GILSONITE & 1/4#/SX CELLOFLAKE (15.6 PPG, 1.18 CUFT/SX) CIRC 8 BBLS CMT). 01/07/02:

01/10/02: RAN CBL. TOC @ 970'.
01/11/02: MIRU WL. SET CIBP @ 930'. PERF WELL @ 915' W/2 JSPF. TIH W/MODEL R PKR & SET @ 750'. SQZD PERFS W/222 SX CL B CMT W/2% METASILICATED & 2% CACL2. CIRC CMT TO SURF. REL PKR. TOH W/TBG & PKR. TO SURF.

TIH & TGD CMT @ 853'. DO CMT TO 920'. PT'S CSG & SQZ HOLES TO 1,000 PSIG. 01/12/02:

01/14/02: DRLG ON CIBP. HELD OK.

<u>02/06/02:</u> MIRU WIRELINE LOGGING UNIT. 02/08/02: PERF'D MV AS FOLLOWS: 2,388°

02/08/02: PERF'D MV AS FOLLOWS. 2,388'-98', 2,464'-72', 2,478'-84', 2,556'-66', 2,730'-38', 2,790'-2,807', 2,914'-2,954', 3,088'-3,096' W/4 SPF, (120 DEG PHASING, 0.38" DIA, 21" PENE). TIH W// 5-1/2" PKR & 100 JTS 2-7/8", J-55 TBG. SET PKR @ 2,310'. 02/09/02: BD PERFS FR/2,388'-3,096' @ 1,650 PSIG.A. PERFS W//2,500 GALS 7.5% HCL W/550 BALL SEALERS 1.35G. ISDP-1,145 PSIG, 5" SIP-948 PSIG, 10" SIP-907 PSIG, 15" SIP

866 PSIG.

03/01/02; RAN STEP RATE TEST. MAX INJ PRES 2,262.7 PSIG @ 2,954'. MAX AIR 7.629 BPM. 2-7/8", 6.5 #, J-55 TBG. EOT @ 2,310'. BAKER 5-1/2" X 2-7/8" LOK-SET PKR @ 2,310'. 03/15/02; INJECTION PRESSURE INCREASED TO 1,050 PSIG.

**11/21/02:** RAN STEP RATE TEST.

## State of New Mexico Energy, Minerals & Mining Resources Department OIL CONSERVATION DIVISION 2040 South Pacheco Sonta Fe, NM 87505

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

A	PA Hum	ber		Pool C	003				Poc	Name	
Property C	od=	Τ			Property	None		<u> </u>			Hel Number
					SALTY						2
OGRED No.	<u>.</u>				Operato			Elevation			
			RI	CHARD	ARDSON OPERATING COMPANY						5297
· · · · · · · · · · · · · · · · · · ·				· · · · · · · · · · · · · · · · · · ·		Hace La			T=-		
UL or Lot	Sec.	Twp.	Rga.	Lot lot	\$	1		Feet Irons		West	County
	5	29 N. J	14 W.	Das	1495		OUTH	1477	E/	ST	SAN JUAN
UL or Lot	Sec	Top	Rga.	الما الما				Feet from>	Eon	West	County
			4.								·
Dedication	Jo	int?	Consolido	high				Ord	or Na		
	N	O ALLOWABL						NIEBE213		BEEN CO	NSOUDATED
			OR A NO	N-STANDA	NATO UNIT HA	S BEEN	APPROVE	D BY THE DIM	NOIC		
					····						
											RATOR CERTIFICATION
										ognitoin	by curtify that the information and herein is true and complete
										to the	best of my knowledge and
										1	
										Signatu	ro .
										Printed	Name
										Title	
										Date	
			J	 - 5 -						1	RVEYOR CERTIFICATION
				Ĭ						شخعما	by certify that the well location a plot was plotted from field
									]	or unt	of octual surveys mode by me fer my supervision, and that the in true and correct to the best
					J					of my	is true and correct to the best ballet.
								1477		Date	of Survey
						9	<del> </del>	17//	+		10 AL MIROSO
						1495				Signatu	6844
,			~			<u>~</u>			- <b>e</b>		STATE LAND SUFFER

. Stella Needs A Com No. 1 - Conversion to SWD

#### API WATER ANALYSIS

W.C.N.A. Sample No.: S106695 Company: DUGAN PROD.

Legal Description: Field: Lease or Unit:

Well: STELLA NEEDS A COM #1E Water.B/D: Depth:

Sampling Point: SWAB 'ormation: POINT LOOKOUT/MESA VERDE

Sampled By: J. ALEXANDER State: N.M. Date Sampled: 04/24/95

County: Type of Water(Produced, Supply, ect.):

#### PROPERTIES

Iron, Fe(total): 250 pH: 6.30 Sulfide as H25: Specific Gravity: 1.050

Total Hardness: Resistivity (ohm-meter): .13

(see below) Tempature: 78F

#### DISSOLVED SOLIDS

me/l mg/l CATIONS

Sodium, Na: 20470 : 890

Sample(ml): 1.0 ml of EDTA: 5.20 Calcium, Ca: 2084 : 104

Sample(ml): 1.0 ml of EDTA: .70 Magnesium, Mg: 170 : 14

Barium, Ba: N/A : N/A

Potassium, K:

mg/l ANIONS me/l

1.0 ml of AgNO3: Sample(ml): 900 1: .5000Chloride, Cl: 31905 :

Sulfate, SO4: 3750 : 78

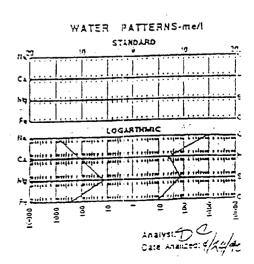
1.0 ml of H2SO4: Sample(ml): Carbonate, CO3:

1.0 ml of H2SO4: .30 Sample(ml): Bicarbonate, HCO3: 1830 30

Total Dissolved

Solids (calculated): 60209 1.0 ml of EDTA: Sample(ml): Total Hardness: 5900

REMARKS AND RECOMMENDATIONS:



#### BJ SERVICES COMPANY

#### WATER ANALYSIS #FW01W266

#### FARMINGTON LAB

#### GENERAL INFORMATION

OPERATOR:

RICHARDSON OPERATING

WELL:

BUSHMAN FEDERAL 6-1

FIKED:

SECO6/T29N/R14W

SUBMITTED BY: BRAD SALZMAN

WORKED BY : D. SHEPHERD

PHONE NUMBER:

DEPTH:

DATE SAMPLED: 10/19/98

DATE RECEIVED:10/20/98

COUNTY: SAN JUAN

STATE: NM

FORMATION: FC/PC

#### SAMPLE DESCRIPTION

SAMPLE FOR ANALYSIS

#### PHYSICAL AND CHEMICAL DETERMINATIONS

SPECIFIC GRAVITY:

1.015 & 74°P PH:

RESISTIVITY (MEASURED ): 0.280 ohms @ 76°F

IRON (FE++): 0.ppm

SULFATE:

.39- .p<del>p.a</del>.

CALCIUM:

158 ppm

TOTAL HARDNESS

710 ppm

MAGNESIUM:

77 ppm

BICARBONATE:

1,719 ppm

CHLORIDE:

12,574 ppm

SODIUM CHLORIDE(Calc)

20,685 ppm

SODIUM+POTASS:

8,493 ppm

TOT. DISSOLVED SOLIDS: 23,536. ppm.

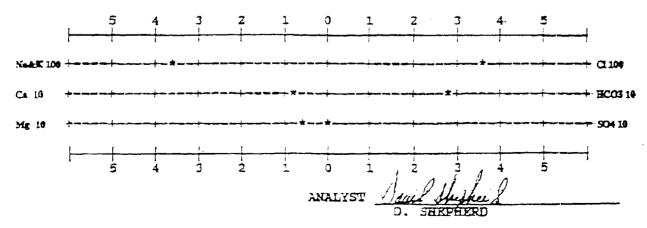
H2S: NO TRACE

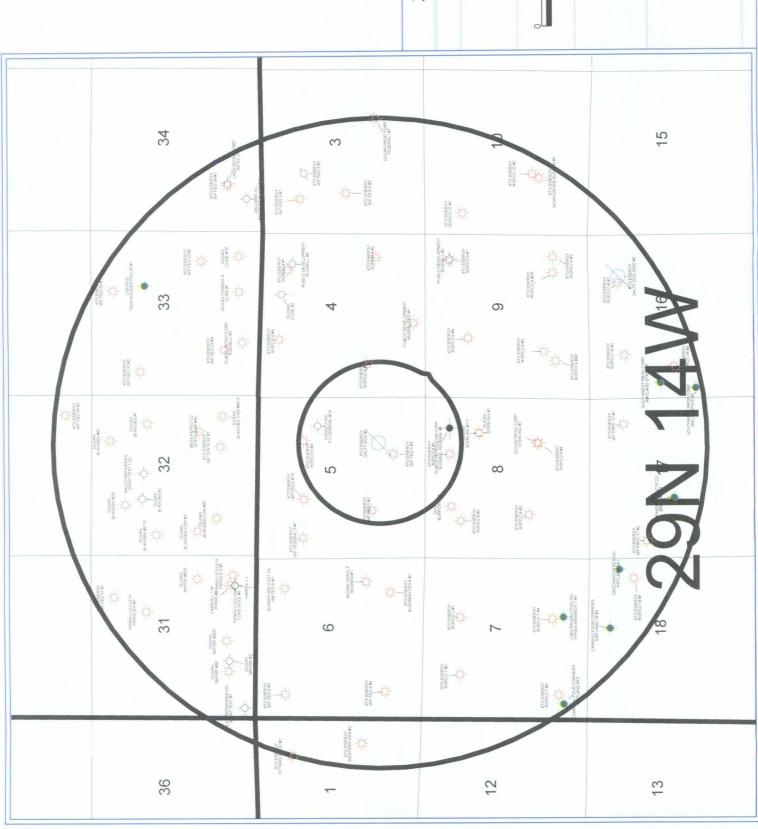
POTASSIUM (PPM): 110 PPM.

#### RHMARKS

SAMPLED FROM SEPERATOR

#### STIFF TYPE PLOT (IN MEQ/L)





# XTO ENERGY INC.

# SALTY DOG #2 SWD

# SEC. 5, T29N-R14W

1/2 MILE & 2 MILE RADIUS SAN JUAN COUNTY, NM

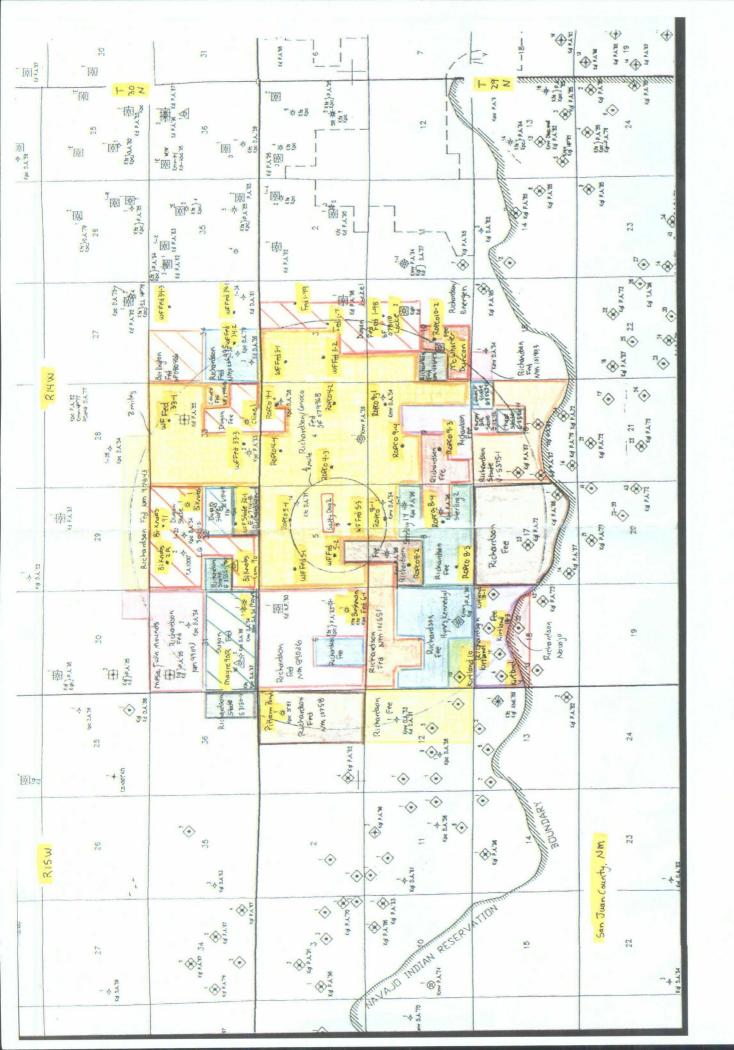


### POSTED WELL DATA Operator Well Label



WELL SYMBOLS
Gas Well
Dry Hole
Injection Well
Temporarily Abandoned
Abandoned Oil Well
Oil Well

January 12, 2009



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This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and helief.

OTEPHEN II. KINNEY
Registered Professional
Engineer and Land Surveyor

. . . July 19 ..... , 10 64

Seni:

Committee of the control of the cont

JUL2 8 1954

U. S. GEOLOGICAL SURVEY

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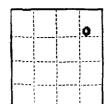
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#### UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

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SUNDRY	<b>NOTICES</b>	AND	<b>REPORTS</b>	ON	WELL	S

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Subscient Report of Abandonment Office of Intention to Pull or Alter Casing Office of Intention to Pull or Alter Casing Office of Intention to Abandon well  (Indicate Above by Check Mark Nature of Report, Notice, or other Data)  Actec, Rest Mexico Jameary 36	OTICE OF INTENTION TO RE-DRILL OR REPAIR WELL S	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.
(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)  Actor, New Mexico Jamiary, 26	IOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT.
Artec, New Mexico Jamery 26	IOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY
Actec, New Mexico Jamiary 26	NOTICE OF INTENTION TO ABANDON WELL.	
Actec, New Mexico Jamiary 26		
Public Carr-Russell Federal  [No. 1 is located 790 ft. from No. 1 ine and 990 ft. from W. line of sec. 8  [No. 1 is located 790 ft. from No. 1 ine and 990 ft. from W. line of sec. 8  [No. 1 is located 790 ft. from No. 1 ine and 990 ft. from W. line of sec. 8  [No. 1 is located 790 ft. from No. 1 ine and 990 ft. from W. line of sec. 8  [No. 1 in Manda Area San June (Meridian)  [Field)  [Field)  [Field)  [Field)  [Field)  [County or Subdivision)  [State or Territory)  [State or Territory	(INDICATE ABOVE BY CHECK MARK NATURI	E OF REPORT, NOTICE, OR OTHER DATA)
Partice Carre-Russell Federal  No	<b>A</b> x	rter New Merico Jameary 36 , 19 6
In No. 1 is located 790 ft. from line and 990 ft. from line of sec. 8  (Kree. and Sec. No.) (Twp.) (Range) (Meridian)  Twin Mounds Area Sen. Junn (State or Territory)  e elevation of the department and above sea level is 2332-4ft.  DETAILS OF WORK  to names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jgbs, comen ing points, and all other important proposed work)  t is proposed to plug Pubco Carr-Russell 1; PD 3396; E-log to TD and DET information indicate a dry hole to TD.  ET Al: 727-773 Pictured Cliffs If 15%, FF 60%, Fsip 215, rec. 150° ali, Gen. ED gts.  ET Al: 723-772 water productive, Pictured Cliff; 3223-3237 water productive Measures.  Ches Amaliels: 724-772 water productive, Pictured Cliff; 3223-3237 water productive Measures.	Duban Anima Disease 1 Sadame 1	· · ·
(Range) (Meridian)  Trin Mounds Area (County or Subdivision)  Ground  (County or Subdivision)  DETAILS OF WORK  DETAILS OF WORK  It is proposed to plug Pubeo Carr-Russell 1; TD 33%; E-log to TD and DET  Information indicate a dry hole to TD.  BY 1: 727-773 Pictured Cliffs If 15%, FF 60%, Psip 215, rac. 150° ali,  Com. Bo gts.  ET 22: 2932-2963 Hanafee If 30%, FF 180, Fsip 1170, rac. 365° wan, no gas  or cil.  OHE ANALYSIS: 724-772 water productive, Pictured Cliff; 3223-327 water  productive Mensions.  Plugs to be run as designated by Mr. Enil McGrath, U.S.G.S., 8-26-54;	ell No is located 790 ft. from	line and 990 ft. from the line of sec.
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ET 32: 2932-2963 Henefee If 304, FF 180, Feip 1170, rec. 365' was, no gas or oil.  ORE ANALYSIS: 724-772 water productive, Pictured Cliff; 3223-3227 water productive Mensfee.  Thus to be run as designated by Mr. Shil McCrath, U.S.G.S., 8-26-54;	ing points, and all other im  It is proposed to plug Pubeo Carr-Russel information indicate a dry hole to TD.	11 %1; TD 33%; E-log to TD and DET
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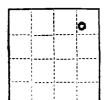
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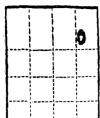
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UNITED STATES DEPARTMENT OF THE INTERIOR

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**Burface** 

Total, 300 sax, spotted by Hosco; installed 8' of 4" on steel stpe for shandowment marker; pits filled and location cleaned up.

l understand	that this plan of work must receive approval in writing	ag by the Geological ${\mathbb S}$	urvey before operations may be commenced.	
Company	PUSCO PETROLIUM COMPORATION			-~
Address	108 West Chuska			
	Astec, New Mexico	Ву	H. E. HERVALL, Jr.	
			Mgr. Prod. Dept.	

#### AFFIDAVIT OF PUBLICATION

Ad No. 44869

### STATE OF NEW MEXICO County of San Juan:

CONNIE PRUITT, being duly sworn says: That she is the Classified Manager of THE DAILY TIMES, a daily newspaper of general circulation published in English at Farmington, said county and state, and that the hereto attached Legal Notice was published in a regular and entire issue of the said DAILY TIMES, a daily newspaper duly qualified for the purpose within the meeting of Chapter 167 of the 1937 Session Laws of the State of New Mexico for publication on the following day(s):

Wednesday, August 15, 2001.

And the cost of the publication is \$20.58.

ON 8/17/0/ CONNIE PRUITT appeared before me, whom I know personally to be the person who signed the above document.

My Commission Expires April 02, 2004

#### COPY OF PUBLICATION



Richardson Operating Company will file an application on August 17, 2001, for approval to inject water, produced from oil and gas wells, into the Mecaverde formation in the Salty Dog No. 2, located in the NW/4SE/4 oil Section 5, Township 29 North, Range 14 West San Juan County, New Macroo, at a depth from 2005 to 3700 feel with surface injection pressure up to 600 pounds per square inch.

Surface owners and offset operators must file any objections of pountst file any objections of pountst file public hearing with the New Mexico Of Conservation Division, 1220 South St. Francis Drive, Santa Fe. New Mexico 67504 Airthin 15 layer of the dete of this notice. Res Pichardson. Operating Company contact person is being Dulman, a100 to Pieta John Permington (505) 584-3100.

Legal No. 44859, published in The Daily Times, Harmington, New Mexico, Wednesday, August 15, 2001.



#### RICHARDSON OPERATING COMPANY

1700 Lincoln, Suite 1700 Denver, Colorado 80203 (303) 83C-8000 FAX (303) 830-8009

August 17, 2001

Mr. William W. Franklin Conoco Inc. Mail Code DU 3092 600 North Dairy Ashford Houston, TX 77079 Certified Mail Return Receipt 7000 1670 0006 8579 3524

Re:

Application for Authorization to Inject

Salty Dog No. 2

NW/4SE/4-Section 5-T29N-R14W San Juan County, New Mexico

#### Gentlemen:

As a leasehold owner within one-half mile of the proposed Salty Dog No. 2 disposal well, you are being notified of our Application for Authorization to Inject. Richardson Operating Company seeks to dispose of water produced from the Fruitland Coal and Pictured Cliffs formations into the Mesaverde formation. Objections, or a request for hearing, must be filed within 15 days with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505,

Enclosed is a copy of our Form C-108 and associated Exhibits. If you need additional information, please do not hesitate to call.

Sincerely,

RICHARDSON OPERATING COMPANY

Cathlean Colly

Cathleen Colby Land Manager

SENDER: COMPLETE THIS SECTION	co.	MPLETE THIS S	ECTION ON DE	LIVERY 1
<ul> <li>Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li> <li>Print your name and address on the reverse</li> </ul>		Received by (Plea	se Print Clearly)	B. Date of Delivery
so that we can return the card to you.	11	Signature		
Attach this card to the back of the mailpiece, or on the front if space permits.				☐ Agent ☐ Addressee
Conoco Inc Attn: Bill Franklin		s delivery address YES, enter deliv		m 1? 🗆 Yes
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#### Jones, William V., EMNRD

From: Jones, William V., EMNRD

**Sent:** Tuesday, July 22, 2008 2:51 PM

To: 'loren\_fothergill@xtoenergy.com'

Cc: Ezeanyim, Richard, EMNRD; Perrin, Charlie, EMNRD; Macquesten, Gail, EMNRD

Subject: Injection Permit from XTO (Extending the SWD-811) Salty Dog SWD Well No. 2 (30-045-30812)

Tracking: Recipient Read

'loren\_fothergill@xtoenergy.com'

Ezeanyim, Richard, EMNRD Read: 7/22/2008 4:07 PM

Perrin, Charlie, EMNRD Macquesten, Gail, EMNRD

#### Hello Loren:

We received your letter requesting an extension of this SWD-811 disposal permit.

Please ask your regulatory personnel to re-apply to inject into this well after providing notice as required in Rule 701B(2). XTO is welcome to submit the results of the latest Step Rate Test run on that well at the same time as the new application. Please coordinate with Charlie in Aztec.

Appreciate the effort XTO has made to bring the Lance/Richardson properties into compliance.

(I am mailing a copy of this Email, to ensure communication)

Regards,

William V. Jones PE New Mexico Oil Conservation Division 1220 South St. Francis Santa Fe, NM 87505 505-476-3448

#### Exhibit 3

#### RICHARDSON OPERATING COMPANY OPERATIONS PLAN

#### SALTY DOG No. 2

#### August 17, 2001

1. Location:

Section 5, Township 29 North, Range 14 West, NMPM

1495' FSL and 1477' FEL

San Juan County, New Mexico

Field:

Blanco Mesaverde

Elevation:

5297'

Surface:

Fee - Richardson Production Company

Minerals:

Federal SF-079968

II. Geology:

Formation lops	Depths
	_
Fruitland Coal	600 feet
Basal Coal	790 feet
Pictured Cliffs	800 feet
Lewis	930 feet
Cliff House	2200 feet
Menefee	2440 feet
Point Lookout	3310 feet
Total Depth	3700 feet

Estimated depths of anticipated water, oil, gas and other mineral bearing formations which are expected to be encountered:

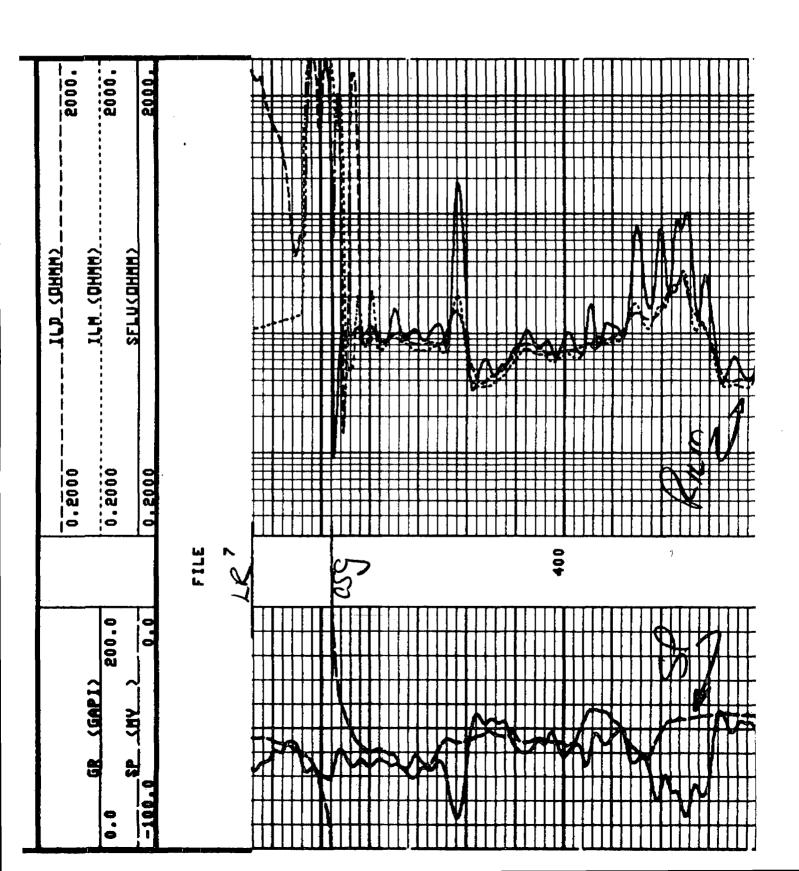
Water and gas:	600 feet 790 feet 800 feet	Fruitland Coal Basal Coal Pictured Cliffs
Water:	2200 feet 3310 feet	Cliff House Point Lookout

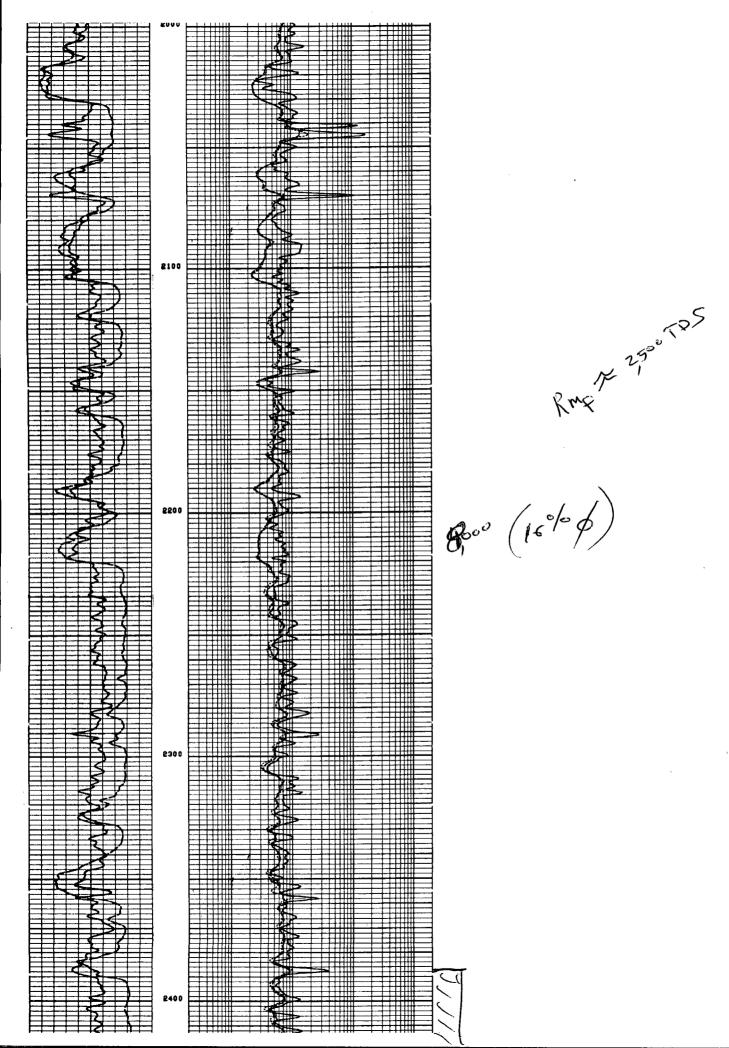
- A. Logging Program:
- Induction /GR and Density Logs at TD
- B. The maximum expected bottom hole pressure is 400 psi. This pressure will be contained as specified in III B. and C. below. No overpressured zones are expected in this well. No H2S zones are anticipated in this well.

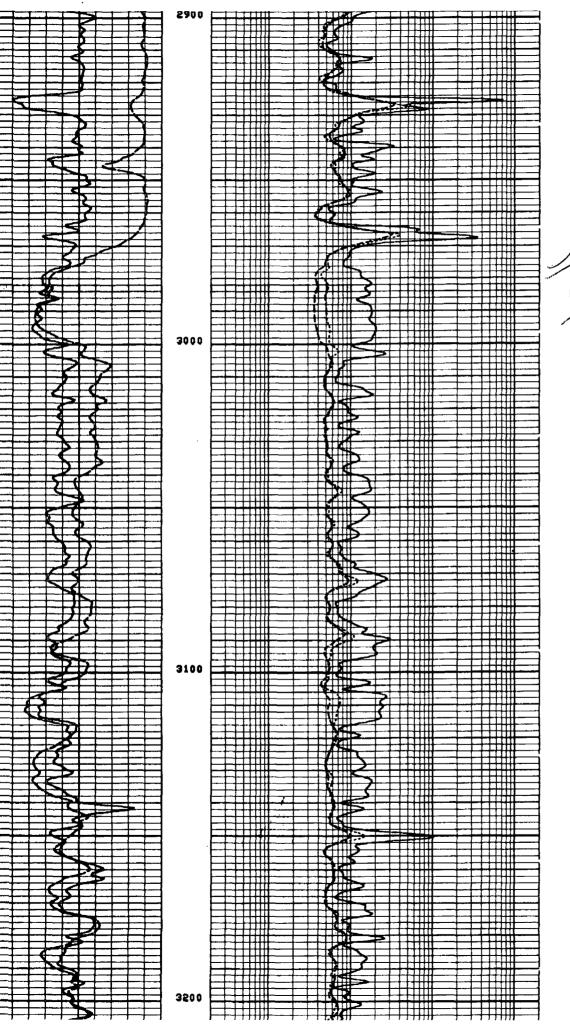
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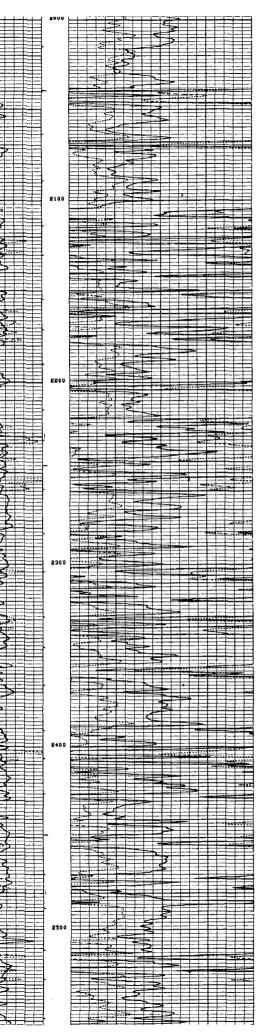






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### WORKSHEET FOR ESTIMATING WATER QUALITY FROM ELECTRICAL WELL LOGS

From Log	Header:
	Well No. & Location
	Rmf 1.6 at 85 of
	Max. Recorded TempOF
	Bottom Logged Interval 4684 feet
Temp. Gra Interval	adient in degrees F/Foot = (max. Rec. Temp - 60°F ÷ Bottom Logged = 0.007
XXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Sand betr	where $\frac{220}{\text{Tr}}$ and $\frac{2220}{\text{Feet Depth}}$ Feet Depth $\frac{25}{\text{Tr}}$ or $\frac{25}{\text{Tr}}$ or $\frac{25}{\text{Tr}}$ or $\frac{25}{\text{Tr}}$
·	Rmf at Tr (From chart Gen-9 Schlumburger) = 1.6
	Rsfl (or equivalent) =  ohm-meters (From Log) 20
	Rild (or equivalent) = 3 ohm-meters (From Log)
	$F = \frac{Rsfl}{Rmf} = \frac{\sqrt{2g^{n}/3}}{2f} = \frac{23m2}{f}$
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Convert F	Rwa @ T <sub>f</sub> to Rwa @ 77°F (25°C) $R_{77} = R_{T_f} \left( \frac{T_f + 6.77}{83.77} \right)$ ; in °F (Arps Eqn.
Rwa <b>@ 7</b> 79	PF (25°C) = 1.42
	or equation to relate Rwa to TDS Bood (7,000
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