

11/26/07 DATE IN	SUSPENSE	W Jones ENGINEER	11/26/07 LOGGED IN	SWD TYPE 1114	PKUR0733053538 APP NO
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ABOVE THIS LINE FOR DIVISION USE ONLY

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



## ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

### Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]  
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]  
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]  
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]  
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]  
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

### [1] TYPE OF APPLICATION - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Simultaneous Dedication  
☐ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement  
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery  
☐ WFX ☐ PMX ☒ SWD ☐ IPI ☐ EOR ☐ PPR

[D] Other: Specify \_\_\_\_\_

### [2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply

- [A] ☐ Working, Royalty or Overriding Royalty Interest Owners
- [B] ☐ Offset Operators, Leaseholders or Surface Owner
- [C] ☐ Application is One Which Requires Published Legal Notice
- [D] ☐ Notification and/or Concurrent Approval by BLM or SLO  
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F] ☐ Waivers are Attached

### [3] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.

[4] CERTIFICATION: I hereby certify that the information submitted with this application for administrative approval is accurate and complete to the best of my knowledge. I also understand that no action will be taken on this application until the required information and notifications are submitted to the Division.

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

Print or Type Name

Signature

Title

Date

e-mail Address

**APPLICATION FOR AUTHORIZATION TO INJECT**

- I. PURPOSE: \_\_\_\_\_ Secondary Recovery \_\_\_\_\_ Pressure Maintenance   X   \_\_\_\_\_ Disposal \_\_\_\_\_ Storage  
Application qualifies for administrative approval?   X   Yes \_\_\_\_\_ No
- II. OPERATOR: XTO Energy, Inc.  
ADDRESS: 200 N. Loraine, Ste. 800 Midland, TX 79701  
CONTACT PARTY: Kristy Ward PHONE: 432-620-6740
- III. 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:   N/A
- 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. **Attached.**
- 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. **Attached.**
- VII. Attach data on the proposed operation, including: **Attached.**
1. Proposed average and maximum daily rate and volume of fluids to be injected;
  2. Whether the system is open or closed;
  3. Proposed average and maximum injection pressure;
  4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
  5. 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.).
- \*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 with 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. **Attached.**
- IX. Describe the proposed stimulation program, if any. **Attached.**
- \*X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted). **Logs Attached.**
- \*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. **Water & Chemical Analysis Attached.**
- 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. **Attached.**
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form. **Attached.**
- 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: Kristy Ward TITLE: Regulatory Analyst  
SIGNATURE: Kristy Ward DATE: November 12, 2007  
E-MAIL ADDRESS: kristy\_ward@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: \_\_\_\_\_

### 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: **Wellbore Diagrams Attached.**

- (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. **San Andres-Abo Pool**
- (2) The injection interval and whether it is perforated or open-hole. **4600' – 7766' Perforated**
- (3) State if the well was drilled for injection or, if not, the original purpose of the well. **Oil 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. **See Wellbore Diagram Attached.**
- (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.  
**Above – Grayburg – 4008'                      Below – Wolfcamp – 8387'**

### 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. **The Surface is owned by the State of New Mexico. Attached.**

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: **Attached.**

- (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.**

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**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.

Submit to Appropriate  
District Office  
State Lease - 6 copies  
Fee Lease - 5 copies  
DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II  
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico  
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 Pacheco St.  
Santa Fe, NM 87505

Form C-105  
Revised 1-1-89

WELL API NO. <b>30-025-34760</b>
5. Indicate Type Of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name <b>Goodwin State 10</b>
8. Well No. <b>1</b>
9. Pool name or Wildcat <b>Goodwin; Abo</b>

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER _____		7. Lease Name or Unit Agreement Name <b>Goodwin State 10</b>	
b. Type of Completion: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF RESVR <input type="checkbox"/> OTHER _____			
2. Name of Operator <b>Marathon Oil Company</b>		8. Well No. <b>1</b>	
3. Address of Operator <b>P.O. Box 2490 Hobbs, NM 88240</b>		9. Pool name or Wildcat <b>Goodwin; Abo</b>	
4. Well Location Unit Letter <b>L</b> : <b>2160</b> Feet From The <b>South</b> Line and <b>330</b> Feet From The <b>West</b> Line Section <b>31</b> Township <b>18-S</b> Range <b>37-E</b> NMPM <b>Lea</b> County			
10. Date Spudded <b>11/23/99</b>	11. Date T.D. Reached <b>12/12/99</b>	12. Date Compl.(Ready to Prod.) <b>12/22/99</b>	13. Elevations(DF & RKB, RT, GR, etc.) <b>GL 3734' KB 3745'</b>
14. Elev. Casinghead			
15. Total Depth <b>7792'</b>	16. Plug Back T.D. <b>6750' CIBP</b>	17. If Multiple Compl. How Many Zones? <b>1</b>	18. Intervals Drilled By <b>X</b>
19. Producing Interval(s), of this completion - Top, Bottom, Name <b>Goodwin; Abo 7382-7699'</b>		20. Was Directional Survey Made <b>Yes - See Attached</b>	
21. Type Electric and Other Logs Run <b>Yes-See Attached</b>		22. Was Well Cored	

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9 5/8"	36#	1298'	12 1/4"	605 sxs	
5 1/2"	15.5/17#	7792'	8 3/4"	2010 sxs	

LINER RECORD				TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET

26. Perforation record (interval, size, and number)			27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.		
7382-96'	7634-59'		DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED	
7407-24'	7679-99'		7634-7659'	Cmt sqz w/200 sxs Prem. cmt	
7575-95'			7382-7699'	Acidize w/5000 gals 15% sour acid	
			7382-7595'	4000 gals G30 w/8000 gals 15% acid	

28. PRODUCTION					
Date First Production	Production Method (Flowing, gas lift, pumping - Size and type pump)			Well Status (Prod. or Shut-In) <b>TA</b>	
Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl.	Gas - MCF
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.
				Oil Gravity - API (Corr.)	

29. Disposition of Gas (Sold, used for fuel, vented, etc.)

30. List Attachments

**Deviation survey logs**

31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature Kelly Cook Printed Name Kelly Cook Title Records Processor Date 5/31/00

## INSTRUCTIONS

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

**INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE**

## Southeastern New Mexico

## Northeastern New Mexico

T. Anhy	1532'	T. Canyon	T. Ojo Alamo	T. Penn. "B"
T. Salt		T. Strawn	T. Kirtland-Fruitland	T. Penn. "C"
B. Salt		T. Atoka	T. Pictured Cliffs	T. Penn. "D"
T. Yates	2793'	T. Miss	T. Cliff House	T. Leadville
T. 7 Rivers	3085'	T. Devonian	T. Menefee	T. Madison
T. Queen	3717'	T. Silurian	T. Point Lookout	T. Elbert
T. Grayburg	4090'	T. Montoya	T. Mancos	T. McCracken
T. San Andres	4472'	T. Simpson	T. Gallup	T. Ignacio Otzte
T. Glorieta		T. McKee	Base Greenhorn	T. Granite
T. Paddock		T. Ellenburger	T. Dakota	T.
T. Blinebry		T. Gr. Wash	T. Morrison	T.
T. Tubb		T. Delaware Sand	T. Todilto	T.
T. Drinkard		T. Bone Springs	T. Entrada	T.
T. Abo	7279'	T. Tubb Sand	T. Wingate	T.
T. Wolfcamp		T. Tubb Carb	T. Chinle	T.
T. Penn		T. Drinkard Reef	T. Permian	T.
T. Cisco (Bough C)		T.	T. Penn "A"	T.

### OIL OR GAS SANDS OR ZONES

No. 1, from ..... to .....  
 No. 2, from ..... to .....  
 No. 3, from ..... to .....  
 No. 4, from ..... to .....

## IMPORTANT WATER SANDS

**Include data on rate of water inflow and elevation to which water rose in hole.**

No. 1, from \_\_\_\_\_ to \_\_\_\_\_ feet

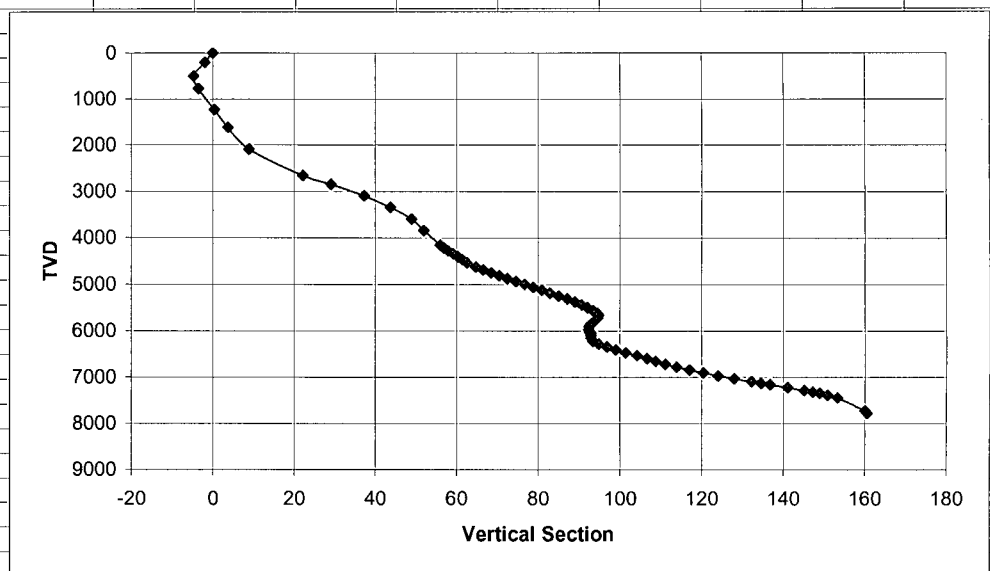
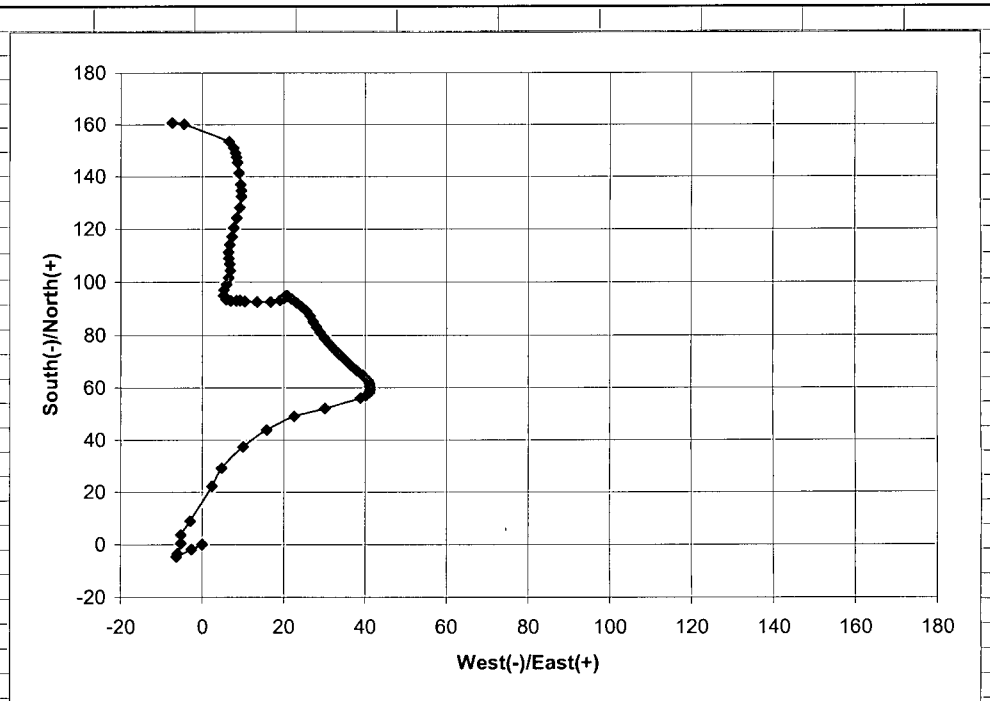
No. 2, from \_\_\_\_\_ to \_\_\_\_\_ feet

No. 3, from \_\_\_\_\_ to \_\_\_\_\_ feet

**LITHOLOGY RECORD** (Attach additional sheet if necessary)

From	To	Thickness in Feet	Lithology

E/W	N/S	VS	TVD
0	0	0	0
-2.59	-1.95	-1.95	211
-6.22	-4.69	-4.69	509
-5.98	-3.54	-3.54	778
-5.18	0.39	0.39	1237
-5.15	3.72	3.72	1625
-2.86	8.89	8.89	2096
2.49	22.18	22.18	2657
4.83	29.15	29.15	2845
10.01	37.34	37.34	3096
15.8	43.77	43.77	3344
22.55	48.95	48.95	3594
30.17	51.99	51.99	3844
38.89	55.97	55.97	4159
40.27	56.96	56.96	4221
41.1	57.99	57.99	4284
41.25	59.1	59.1	4346
41.2	60.3	60.3	4409
41.2	61.4	61.4	4472
40.91	62.49	62.49	4535
39.38	64.71	64.71	4629
37.86	66.54	66.54	4692
36.43	68.49	68.49	4755
35.12	70.48	70.48	4817
33.83	72.48	72.48	4879
32.51	74.59	74.59	4942
31.22	76.73	76.73	5005
30.02	78.84	78.84	5066
28.94	80.93	80.93	5129
28.07	82.94	82.94	5192
27.26	85.02	85.02	5255
26.47	87.13	87.13	5318
25.53	89.06	89.06	5381
24.4	90.67	90.67	5443
23.18	92.15	92.15	5506
21.97	93.57	93.57	5568
20.98	94.68	94.68	5631
20.7	94.92	94.92	5662
20.43	94.68	94.68	5725
20.09	93.94	93.94	5787
19.08	93.1	93.1	5850
16.73	92.55	92.55	5913
13.5	92.47	92.47	5974
10.44	92.78	92.78	6037
9.29	92.96	92.96	6068
8.38	92.97	92.97	6099
6.99	92.97	92.97	6161
5.95	93.5	93.5	6224
5.33	94.91	94.91	6286
5.39	96.95	96.95	6349
6.01	99.08	99.08	6411
6.59	101.53	101.53	6474
6.86	104.22	104.22	6537
6.77	106.71	106.71	6600
6.55	108.84	108.84	6661
6.51	111.19	111.19	6724
6.82	113.94	113.94	6786
7.33	117.06	117.06	6848
7.75	120.47	120.47	6911
8.42	124.12	124.12	6974
9.23	128.04	128.04	7036
9.63	132.32	132.32	7099
9.62	134.55	134.55	7130
9.49	136.76	136.76	7161
9.1	141.11	141.11	7224
8.68	145.23	145.23	7286
8.42	147.22	147.22	7318
8.12	148.97	148.97	7349
7.73	150.89	150.89	7390
6.66	153.27	153.27	7449
-4.45	160.07	160.07	7729
-7.34	160.58	160.58	7785



Submit 3 Copies  
to Appropriate  
District Office

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-103  
Revised 1-1-89

DISTRICT I  
P.O. Box 1980, Hobbs NM 88241-1980  
DISTRICT II  
P.O. Drawer DD, Artesia, NM 88210  
DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION

2040 Pacheco St.  
Santa Fe, NM 87505

WELL API NO. 30-025-34760
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name GOODWIN STATE
8. Well No. 1
9. Pool name or Wildcat GOODWIN ABO
10. Elevation (Show whether DF, RKB, RT, GR, etc.) 3734 G.L.

SUNDRY NOTICES AND REPORTS ON WELLS  
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A  
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT"  
(FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER
2. Name of Operator Marathon Oil Company
3. Address of Operator P.O. Box 552, Midland, TX 79702
4. Well Location Unit Letter L/3 : 2160 Feet From The SOUTH Line and 330 Feet From The WEST Line Section 31 Township 18-S Range 37-E NMPM LEA County
10. Elevation (Show whether DF, RKB, RT, GR, etc.) 3734 G.L.

11.

Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐  
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐  
PULL OR ALTER CASING ☐  
OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐  
COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☒  
CASING TEST AND CEMENT JOB ☒  
OTHER: ☐

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

11/24/99 - MIRU TMBR/ Sharp # 10. Spud 12.25" hole @ 0830 hrs, drilled to 1298'. Ran 9.625", 36#, K-55 csg to 1298'. Cemented w/ 450 sx Premium Plus w/ 2% cacl2, 4% gel, Tailed in w/ 155 sx premium Plus. Circulated 110 sx., cement. WOC 42 hrs. NU 11" 3m dual ram BOPE. Tested BOPE to 3000 psi, tested casing to 1000 psi. Drilled float and resumed drilling formation with 8.75" bit to 7790'. T.D. well @ 0230 hrs 12/10/99.

Logged w/ Platform Express 7792' - surface. LD DP and ran production casing as follows: 173 jts 5 1/2", 17#, N-80 & K-55 and 15.5# K-55 new casing to 7790'. Shoe @ 7789', float collar @ 7748'.

Cemented production casing w/ 685 sx Mod. Super Premium, bumped plug and shifted DV tool, circulated 99 sx to pit. Circulated 2nd stage w/ 1225 sx Interfil Prem Plus, tailed in w/ 100 sx 50/50 prem poz. Bumped plug and closed tool, circulated 32 sx to pit.

N.D. stack and installed 7- 1/16" 3M tubing spool. Released rig @ 0330 hrs 12/12/99.

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

SIGNATURE Walter J. Quean, Jr. TITLE DRILLING SUPERINTENDENT DATE 12/16/99  
TYPE OR PRINT NAME R. J. LONGMIRE TELEPHONE NO. 800/351-1417

(This space for State Use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

MP

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

Form C-101  
May 27, 2004

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Submit to appropriate District Office

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

<sup>1</sup> Operator Name and Address XTO ENERGY INC 200 N. LORAIN ST., STE. 800 MIDLAND, TX 79701		<sup>2</sup> OGRID Number 5380
		<sup>3</sup> APT Number 30 - 025-34760
<sup>5</sup> Property Code 36718	<sup>4</sup> Property Name GOODWIN 10 STATE SWD	<sup>6</sup> Well No. 1
<sup>9</sup> Proposed Pool 1 SWD-SA-DRINKARD-ABO		<sup>10</sup> Proposed Pool 2

<sup>7</sup> Surface Location

UL or lot no L	Section 31	Township 18S	Range 37E	Lot Idn	Feet from the 2160	North/South line SOUTH	Feet from the 330	East/West line WEST	County LEA
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<sup>8</sup> Proposed Bottom Hole Location If Different From Surface

UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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Additional Well Information

<sup>11</sup> Work Type Code E	<sup>12</sup> Well Type Code S	<sup>13</sup> Cable/Rotary R	<sup>14</sup> Lease Type Code S	<sup>15</sup> Ground Level Elevation 3734'
<sup>16</sup> Multiple NO	<sup>17</sup> Proposed Depth 7792'	<sup>18</sup> Formation SWD-SA-DRINKARD-ABO	<sup>19</sup> Contractor KEY ENERGY	<sup>20</sup> Spud Date ASAP
Depth to Groundwater		Distance from nearest fresh water well		Distance from nearest surface water
Pit: Liner: Synthetic <input type="checkbox"/> _____ mils thick Clay <input type="checkbox"/> Pit Volume: _____ bbls Drilling Method: _____				
Closed-Loop System <input checked="" type="checkbox"/> Per SF Fresh Water <input type="checkbox"/> Brine <input checked="" type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/>				

<sup>21</sup> Proposed Casing and Cement Program

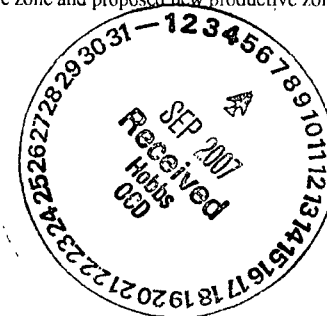
Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
12 1/4"	9 5/8"	36#	1298'	605 sxs	SURFACE
8 3/4"	5 1/2"	15.5# / 17#	7792'	2010 sxs	SURFACE

<sup>22</sup> Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

Drill out plugs located at surf-60', 1205-1482', 4131-4328', and 6805-6900'.  
Perforate well in SA, Drinkard, ABO  
Stimulate well with acid.  
Run IPC tubing and packer. Test annulus to 500 psi.  
Begin injection.

\*\* C-108 in process of being filed.

Permit Expires 1 Year From Approval  
Date Unless Drilling Underway  
Re-Entry



<sup>23</sup> I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Signature:

*Sorina L. Flores*

Printed name: SORINA L. FLORES

Title: DRILLING TECH

E-mail Address: sorina\_flores@xtoenergy.com

Date: 9/6/2007

Phone: 432-620-6749

OIL CONSERVATION DIVISION

Approved by:

*Chris Williams*

Title: DC DISTRICT SUPERVISOR/GENERAL MANAGER

Approval Date:

OCT 30 2007

Expiration Date:

"CONDITION FOR APPROVAL" Approval for Re-Entry. CANNOT dispose into the wellbore without a Saltwater Disposal order approved by the Santa Fe OCD Office

## INJECTION WELL DATA SHEET

OPERATOR: XTO Energy, Inc.WELL NAME & NUMBER: Goodwin 10 State #1WELL LOCATION: 2160' FSL & 330' FWL L 31 18S 37E  
FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGEWELLBORE SCHEMATICWELL CONSTRUCTION DATA  
Surface CasingHole Size: 12 1/2" Casing Size: 9 5/8"Cemented with: 605 sx. or          ft<sup>3</sup>Top of Cement: Surface Method Determined: CirculatedIntermediate CasingHole Size: N/A Casing Size:         Cemented with:          sx. or          ft<sup>3</sup>Top of Cement:          Method Determined:         Production CasingHole Size: 8 3/4" Casing Size: 5 1/2"Cemented with: 2010 sx. or          ft<sup>3</sup>Top of Cement: Surface Method Determined: CirculatedTotal Depth: 7792'Injection Interval4600'          feet to 7766' Perforated

(Perforated or Open Hole; indicate which)

**INJECTION WELL DATA SHEET**Tubing Size: 2 3/8" Lining Material: IPCType of Packer: Baker LokPacker Setting Depth: 4650'Other Type of Tubing/Casing Seal (if applicable): N/AAdditional Data

1. Is this a new well drilled for injection? Yes X No  
 If no, for what purpose was the well originally drilled? Oil Producer
2. Name of the Injection Formation: San Andres-Abo
3. Name of Field or Pool (if applicable): San Andres-Abo Pool
4. 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. See Wellbore Diagram

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Yates 2793'

Seven Rivers 3085'Queen 3717'Grayburg 4090'

**XTO Energy Inc.  
Goodwin 10 State SWD #1  
API # 30-025-34760  
NW SW Section: 31, Township: 18S, Range: 37E  
Lea County, New Mexico  
C-108 (Application for the Authorization to Inject)**

**VII. Data For Proposed Operation**

1. Proposed average and maximum daily rate and volume of fluids to be injected.  
Average daily rate – 1000 BWIPD; Maximum Daily Rate – 3000 BWIPD.  
Volume of fluids to be injected – 10,000,000 BW.
2. System is closed.
3. Proposed average and maximum injection pressure – Average – 1000 psi;  
Maximum – 2000 psi.
4. The source of the injection fluids will be the produced water from existing producers (see attached water analysis).
5. Well is productive in this interval within one mile, so no analysis is necessary.

**VIII. Geologic Data**

Fresh water is contained in the Ogallala Formation made up of alluvial fill from the surface to the top of the Triassic Red Beds at a depth of approximately 200 ft. Surface casing on the most recently drilled wells in the 0.5 mile area of review average 365 feet deep.

The proposed disposal interval is the San Andres – Abo Pool. A review of the 13 wells in the 0.5 mile area of interest indicates that the disposal or injection zone is primarily the San Andres to the Drinkard. Above the Drinkard is the Tubb Formation and above the Tubb is the Blinbry Formation. Above the Blinbry is the Paddock Formation and above the Paddock is the Glorieta Formation. Above the Glorieta is the San Andres Formation and above the San Andres is the Grayburg Formation. Above the Grayburg is the Queen Formation and above the Queen is the Seven Rivers Formation. Below the Drinkard is the Abo Formation. The Drinkard and San Andres are carbonate reservoirs of Permian age. There are no known fresh water intervals below the Drinkard Formation.

## **IX. Proposed Stimulation Program**

1. Drill-out old plugs from P&A. Drill well to TD of 7785. POH.
2. TIH and perforate @ 6820'-7050' and stimulate w/10,000 gals of 20% NEFE Acid.
3. Swab load and test injectively.
4. TIH and set RBP @ 7250'. Perforate from 6155'-6290'. Stimulate w/6,000 gals of 20% NEFE Acid.
5. Swab load and test injectively.
6. Perforate 5380'-5883' and stimulate w/10,000 gals of 20% NEFE Acid.
7. Swab load and test injectively.
8. Perforate from 4700'-4770' and stimulate w/5,000 gals of 20% NEFE Acid.
9. Swab load and test injectively.
10. TIH w/ 2 3/8" IPC lined tubing and Baker Lok-set packer and set above San Andres and begin injection.

## **X. Well Test Information**

No well Test Information available due to well being PA'd. Logs are attached.

## **XI. Chemical Analysis**

Water and Chemical Analysis are attached.

## **XII. Geological Statement**

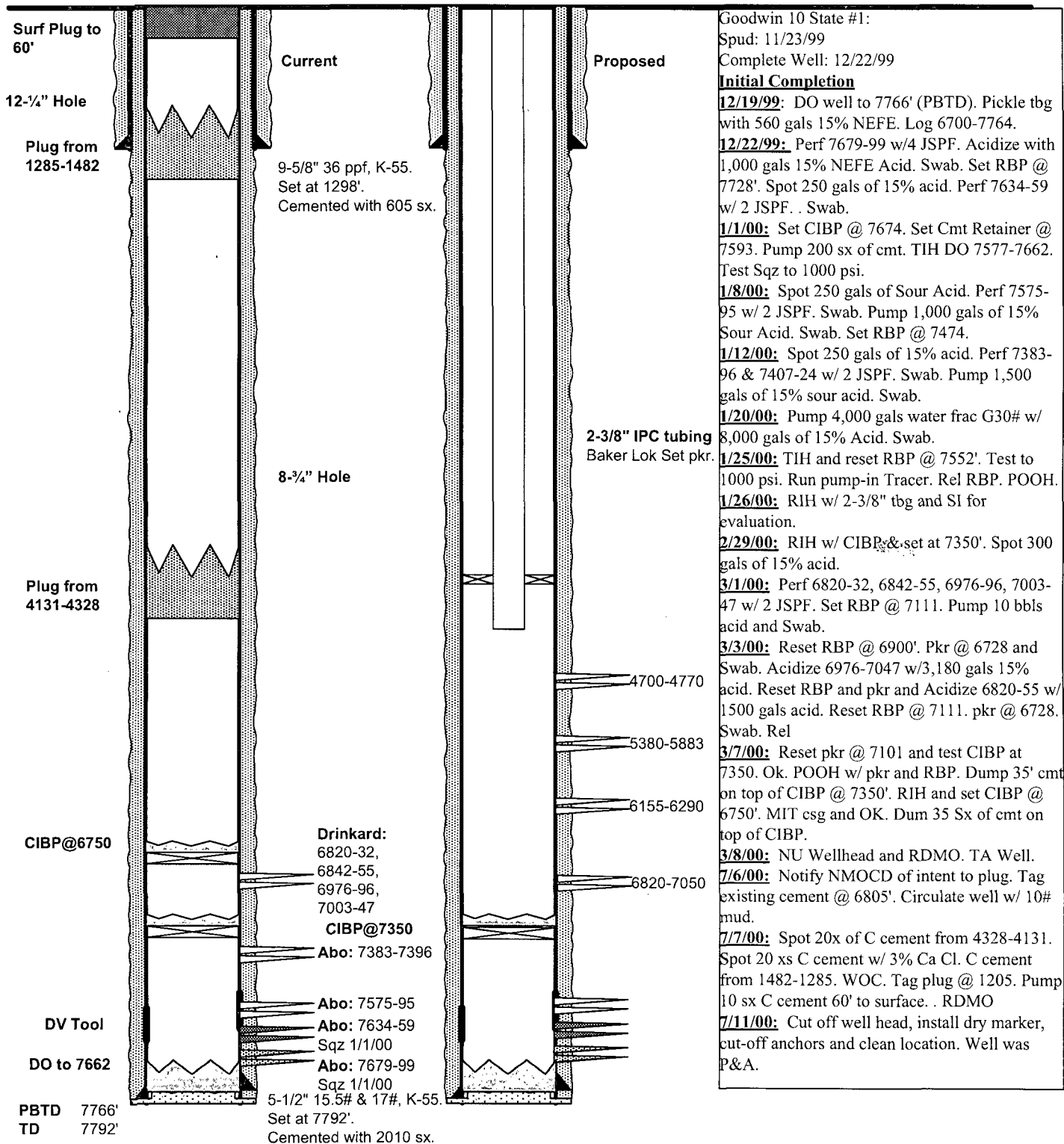
Available geological and engineering data has been examined and no evidence has been found of any open faults or other hydrologic connection between the disposal zone and any underground source of drinking water.

# XTO ENERGY



Well: Goodwin 10 State #1  
Area: North Monument  
Location: Unit L; Sec 31-T18S-R37E  
County: Lea  
Elevation: 3734' GL; 3746' KB

WI: 100.000000%  
NRI: 87.500000%  
Spud: 11/23/99  
State: New Mexico



PREPARED BY: Greg Hicks

DATE: 9/13/07

### **XIII. Proof of Notice**

Proof of Notice on Attached Page.

### **XIV. Surface Owner**

State of New Mexico  
Grazing Permit is GT-3046  
Bruce & Arlene Carlin Estate  
c/o Timothy J. Carlin  
P.O. Box 188  
Monument, NM 88265

**\*Notification was not sent to the State of New Mexico. Please advise if we need to.**

### **Offset Operators Within Half-Mile Radius (active wells)**

HRC, Inc.  
P.O. Box 5102  
Hobbs, NM 88241

XTO Energy Inc.  
200 N. Loraine, Ste. 800  
Midland, TX 79701

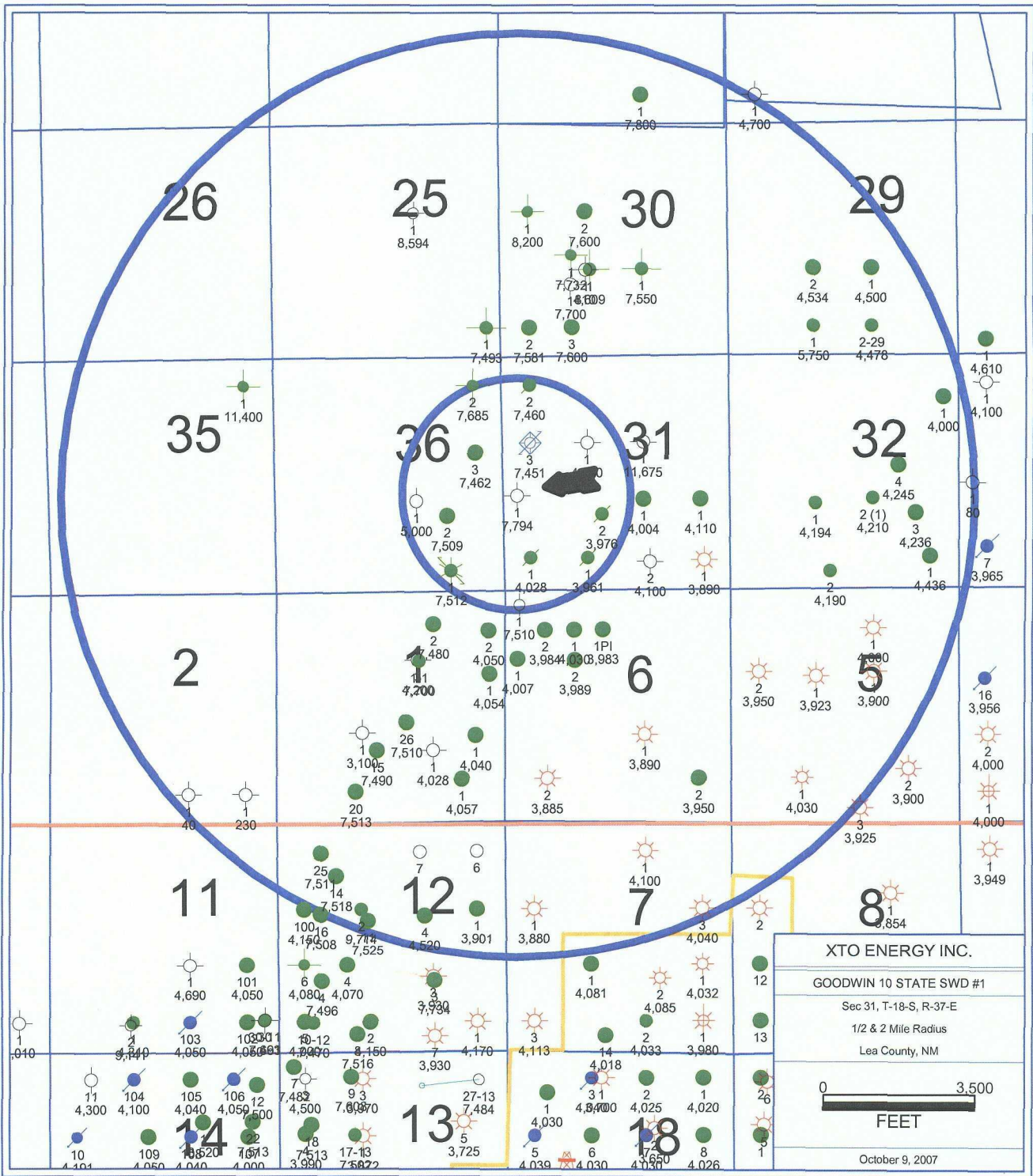
**\*Notification was not sent to all other offset operators due to P&A'd wells. Please advise if we need to.**

I, Kristy Ward, do hereby certify that on November 16, 2007, the above and attached listed interest parties were mailed copies of the application to dispose of water in the Goodwin 10 State #1 Well.

Kristy Ward  
Regulatory

[illegible]







Amerada Petroleum Corp.

GOODWIN, STATE # 1

660' FWL @ 1980' FWL, UNIT D, S-34, T-18-S, R-37-E  
CEA CO.

56/195/37E



8 5/8", 24# Csg Set @ 1618" Cmt'd  
w/ 790 sx.

1618'

330 FWL  
330 FWL

X 5350'

CIBP @ 7100'



5 1/2" 17# Csg Set @ 7236 Cmt'd w/  
400 sx. TOC @ 5350'

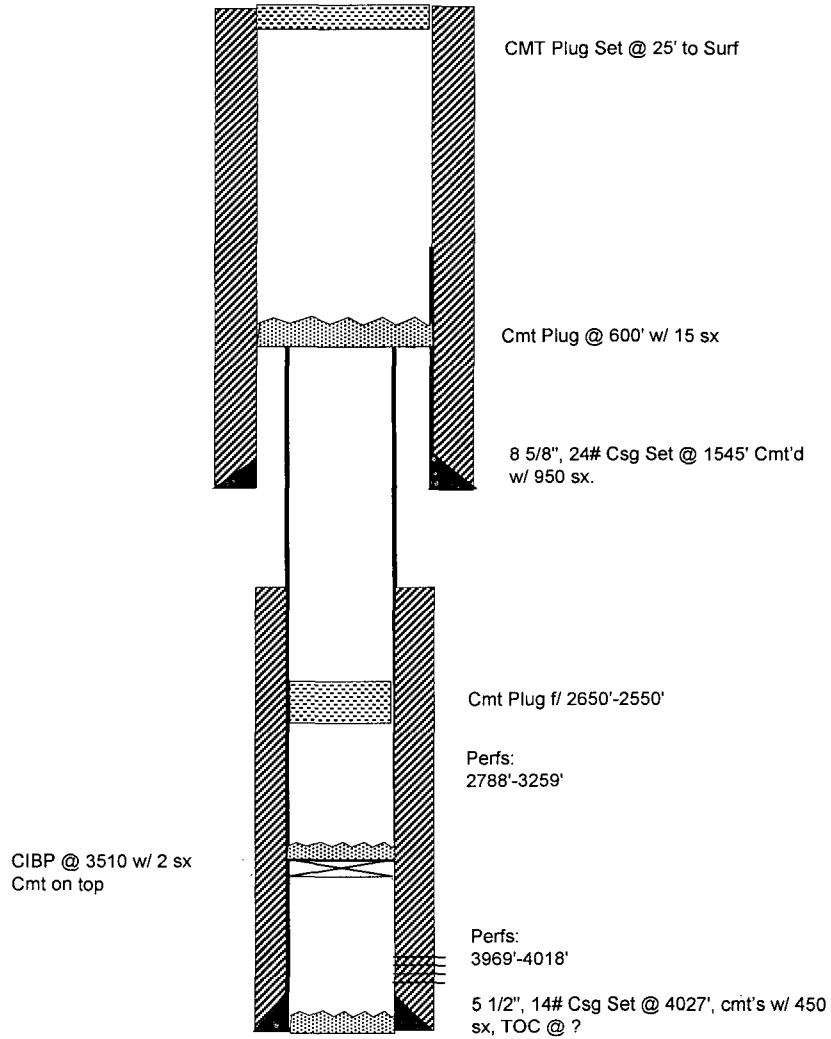
This well is  
near/at the 1/2 mile  
boundary.

TD: 7270

Well Plugged  
Nov 1959

Gulf Oil Corporation

LEA STATE "CM" #1  
660' FSL & 660' FWL, UNIT M, S-31, T18-S,R-37-E  
LEA CO.



TD: 3961

*S. Hallow*

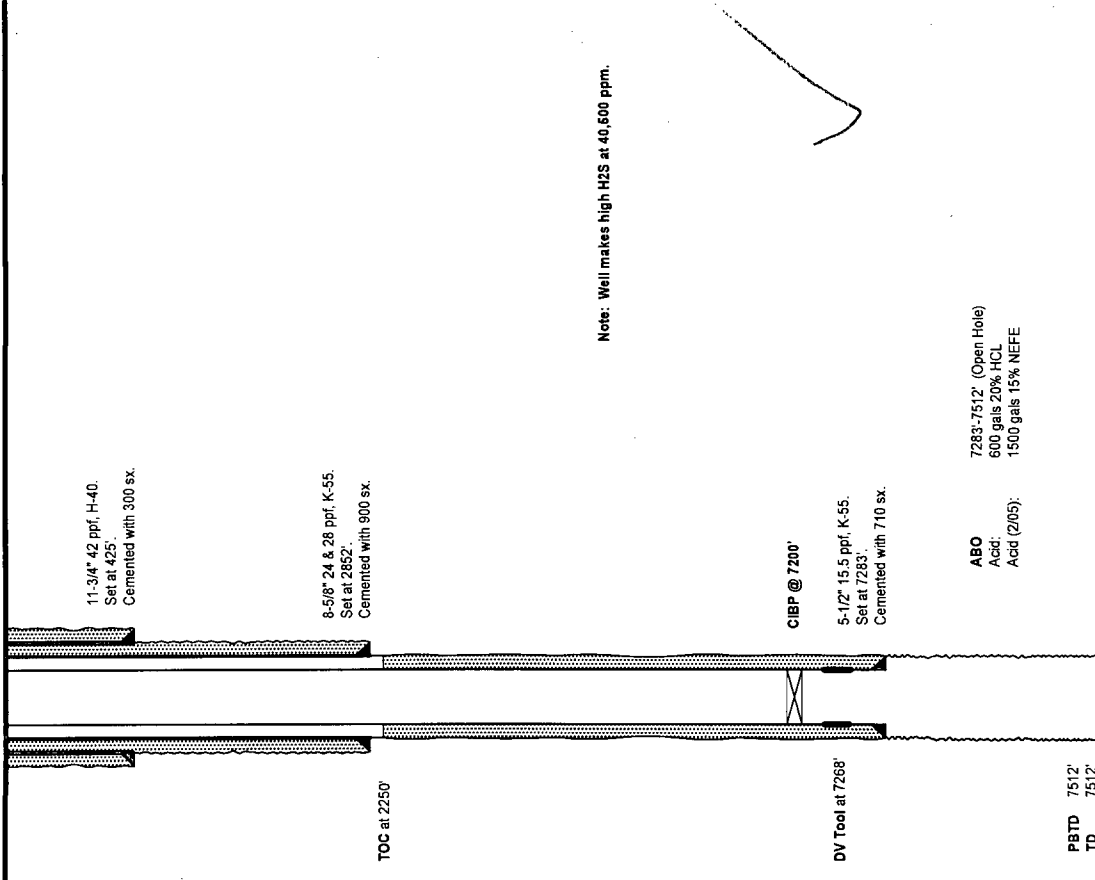
# MOUNUMENT STATE 36 #1

## WELLBORE DIAGRAM

XTO ENERGY

Well: Monument State 36-1  
Area: North Monument  
Location: Section 36-18S-36E  
County: Lea  
Elevation: 3739' GL 3752' KB

WI: 100.00000000%  
NRI: 87.50000000%  
Spud: 1/27/1999  
State: New Mexico



Note: Well makes high H2S at 40,600 ppm.

### DATA

LOCATION: 384' FSL & 1216 FEL SEC 36-18S-36E  
COUNTY/STATE: LEA COUNTY, TEXAS  
FIELD: GOODWIN (ABO)  
FORMATION:  
SPUD DATE: 1/24/99  
INITIAL IP: P 24 HRS, REC 0 BO, 320 BW & 15 MCF W/1 1/2" PMP.  
API #: 30-025-34560  
PRODUCTION METHOD: FLOWING

### HISTORY

01/24/99: SPUD WELL. DRL TO 425'. SET 11 3/4" CSG. CMT W/300 SX CL 'C'. CIRC TO SURF. DRL TO 2852'. SET 8 5/8" CSG. CMT W/900 SX CL 'C'. CIRC TO SURF. DRL TO 7512'. SET 5 1/2" CSG @ 7283'. CMT W/260 SX CL 'C' & 450 SX CL 'H'. TOC @ 2250'. TOH. RUN CBL. CIRC BTMS UP. PERF 7278-7512' (OH). ACDZ IN OH W/600 GALS 20% HCL. RUN 2 7/8" 6.5# L-80 8RD TBG. SET @ 7650'. TH TO 7236'. ND BOP, NU WH. LOAD & TST ANN TO 500#. RU SW & FLOWLINE. CLEAN LOC.

02/16/99: FLOWING. PUT ON 30/64" CHK. 200 PSI REC 25 BBLs 90% OIL & 10% OIL. TURN WELL OVER TO PROD.

10/20/04: REPAIR ROD PART. POH, FOUND ROD PARTED @ 3485'. RIH W/FISHING TOOLS ON CO-ROD. LATCHED ONTO FISH @ 3485'. POH W/TOOLS & CO-ROD. FOUND SLIPS TO FISHING TOOL MISSING. ATTEMPT TO TWICE TO RIH W/FISHING TOOLS ON CO-ROD BUT COULDN'T GET BELOW 1200'. POH. RU. PMP 20 BBLs 9# BRINE. DWN TCA. REL TAC. POH, SWAB TBG DWN.

10/22/04: POH W/TBG TO TOP OF CO-ROD FISH. RU CO-ROD UNIT & SPOOL. LATCHED ONTO CO-ROD & PARTED PMP SHEAR TOOL. POH. SWB TBG TO TOP OF PMP. FPOH W/TBG & PMP. COULDN'T GET PMP OUT OF TBG DUE TO SCALE.

10/23/04: PU & RIH W/BPMA, PS, SN, 1 JT 2 7/8" IPC TBG, 8 JTS 2 7/8" TBG, TAC & 228 JTS 2 7/8" TBG. SET TAC W/ 16 PTS TENSION.

10/24/04: PU & RIH W/12" GAS ANCHOR, 2.5" X 1.50" X 24" RHBC PMP, 3/4" X 4" STAB ROD, 12 - 1 1/2" K-BARS, 180 - 3/4" NORRIS 97 RODS, 104 - 7/8" NORRIS 97 RODS, 7/8" X 6" PONY ROD & 1 1/2" X 26" PR LINER. RDMO PU.

11/03/04: P 24 HRS, REC 0 BO, 320 BW & 15 MCF W/1 1/2" PMP RING 7.4 SPM & 168 SL. 100% POC RUN TIME. FL 3267' FAP.

02/01/05: MIRU. UNSEAT PMP. POH W/RODS & PMP. PULL ROD BADLY PITTED DUE TO BACTERIA. POH W/TBG.

02/02/05: RIH W/TST-3 PKR ON 230 JTS 2 7/8" TBG TO 7240'. FOUND SPLIT IN TBG 56 JTS ABOVE SN. LEFT PKR @ 7240'. PMP 1500 GALS 15% NEFE HCL ACID @ 3 BPM & 0 PSIG. FLUSH ACID W/50 BFW TO BTM OF OH @ 3 BPM & 0 PSIG. ISIP - VAC. 0 PSIG DURING TRTMT. POH W/PKR & TBG.

02/03/05: RIH W/BPMA, PS, SN, 1 JT 2 7/8" IPC TBG, 8 JTS 2 7/8" TBG, TAC & 228 JTS 2 7/8" TBG (1 JT NEW YB). RIH W/1 1/2" X 12' GAC, 2.5" X 2.00 X 36" RHBC PMP, 4' X 7/8" STAB ROD, 12 - 1 1/2" K-BARS, 180 - 3/4" D-97 SUCKER RODS, 103 7/8" D-97 SUCKER RODS, 6' X 7/8" PONY ROD & 36' X 1 1/2" POLISH ROD. INSTALL DYNAPMP UNIT.

03/12/05: RWTP. POH W/RODS & FOUND 7/8" BODY BREAK ON SHOULDER OF 2ND ROD FS. RIH W/FISHING TOOL & RODS. LATCHED ONTO FISH. POH W/RODS & FISH. REPL ROD & RIH W/RODS. LOAD TBG W/23 BW. TP 500 PSIG IN 2 STROKES - HELD OK. RWTP.

04/01/05: RIH W/RENTED CENTRILIFT DH SENSOR, 85 HP, 2080 V, 27A FMH MTR, SEAL SECTION, RGS, 305 STG FC 450 SUB PMP, 55' #4KV MTR LEAD CABLE & 9184' #4

**MOUNUMENT STATE 36 #1**  
**WELLBORE DIAGRAM**

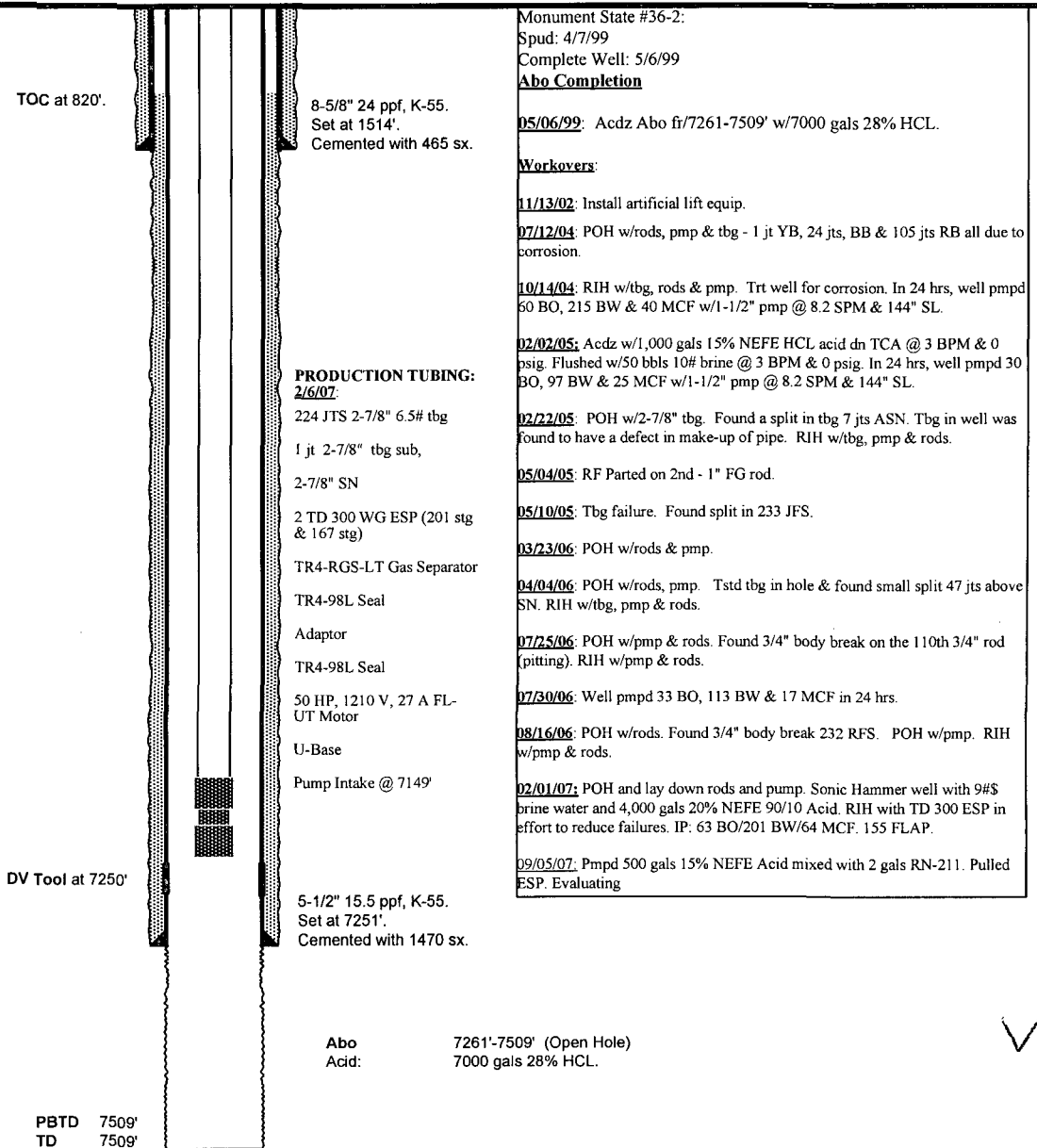
ROUND CABLE ON 229 JTS 2 7/8" TBG. SUB PMPD UP IN 15". LEFT VSD  
RUNNING @ 60 HZ. RWTP. PI IS @ 7231'. FL WAS @ 3600'. IN 24 HRS. WELL  
PMPD 7 B0; 274 BW & 4 MCF W/SUB PMP @ 54 HZ. 100% RUN TIME. FL 0 FAP.  
06/17/05: RU PMP TRK & KILLED WELL W/60 BW. RU CENTRIFLIFT SPOOL & POH W/229  
JTS 2 7/8" J-55 TBG. SUB PMP & ASSOCIATED WIRING.  
06/18/05: TIH W/ 5 1/2" CIBP ON 2 7/8" J-55 TBG & SET CIBP @ 7200'. STUNG OUT OF  
CIBP & CIRC 156 BBLs OF PKR FLUID INTO TBG, CSG ANNULUS. POH & LD 2  
7/8" TBG.

# XTO ENERGY



**Well:** Monument State # 36-2  
**Area:** North Monument  
**Location:** Section 36-18S-36E  
**County:** Lea  
**Elevation:** 3742' GL

**WI:** 100.000000%  
**NRI:** 87.500000%  
**Spud:** 4/07/99  
**State:** New Mexico



PREPARED BY: Greg Hicks

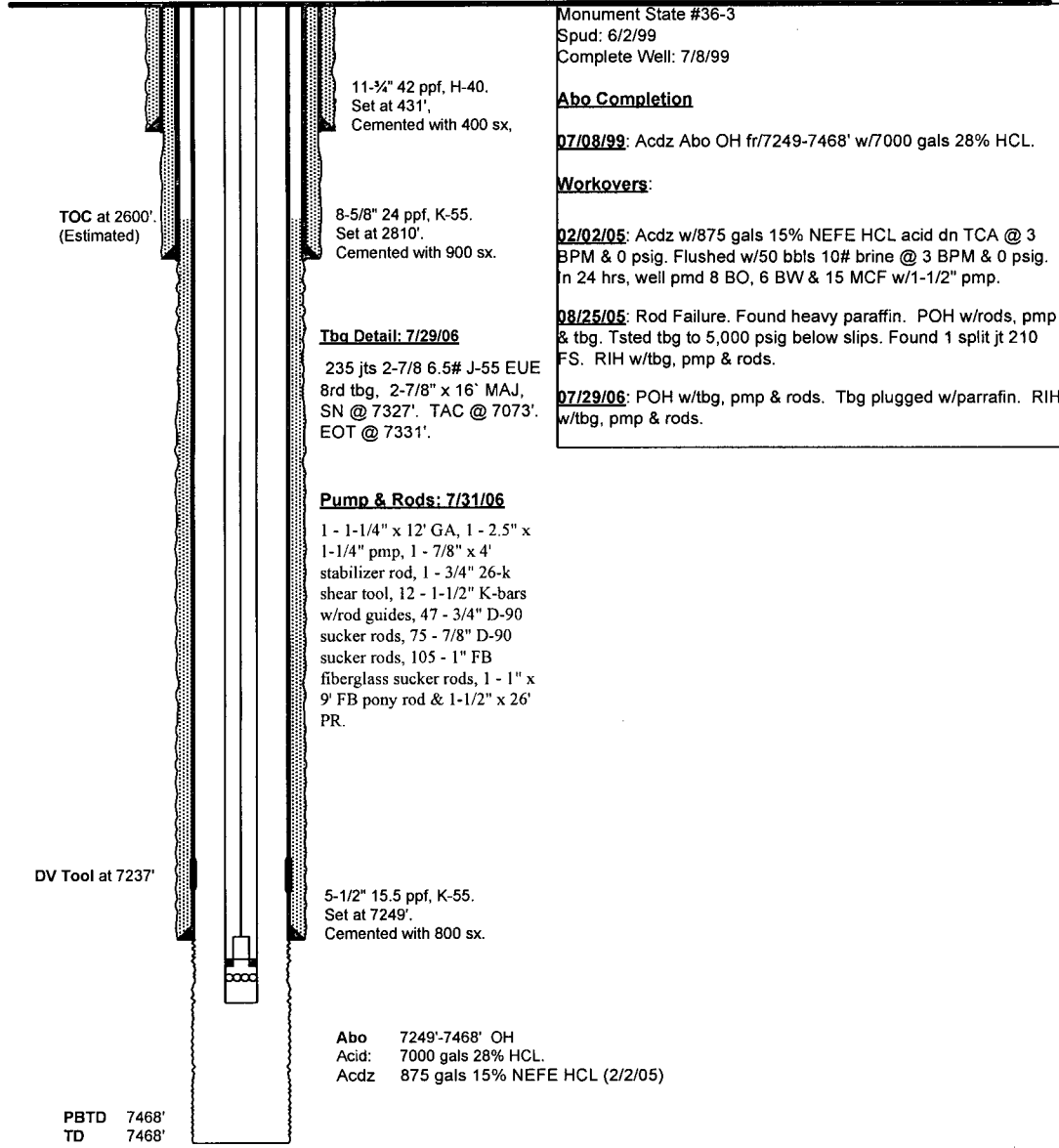
DATE: 9/7/07

# XTO ENERGY



**Well:** Monument State # 36-3  
**Area:** North Monument  
**Location:** Section 36-18S-36E  
**County:** Lea  
**Elevation:** 3744' GL

**WI:** 100.000000%  
**NRI:** 87.500000%  
**Spud:** 6/02/99  
**State:** New Mexico

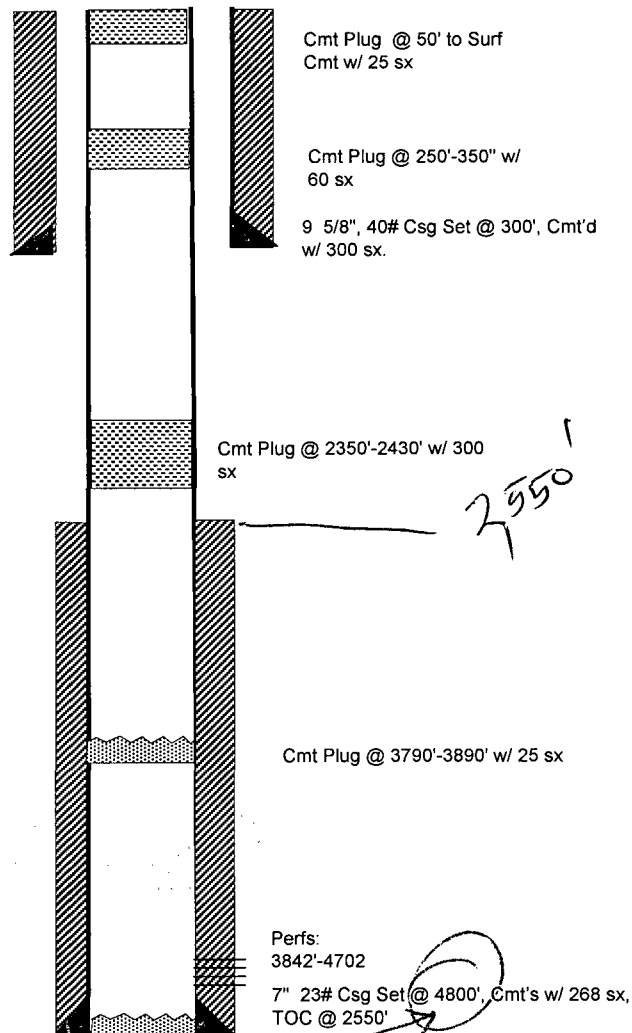


PREPARED BY: Greg Hicks

DATE: 8/8/06

Well Plugged  
March 10, 1957

Continental Oil Corporation  
State A-36 "A" #1  
1980' FSL & 1960' FEL, UNIT J, S-36, T18-S,R-36-E  
LEA CO.



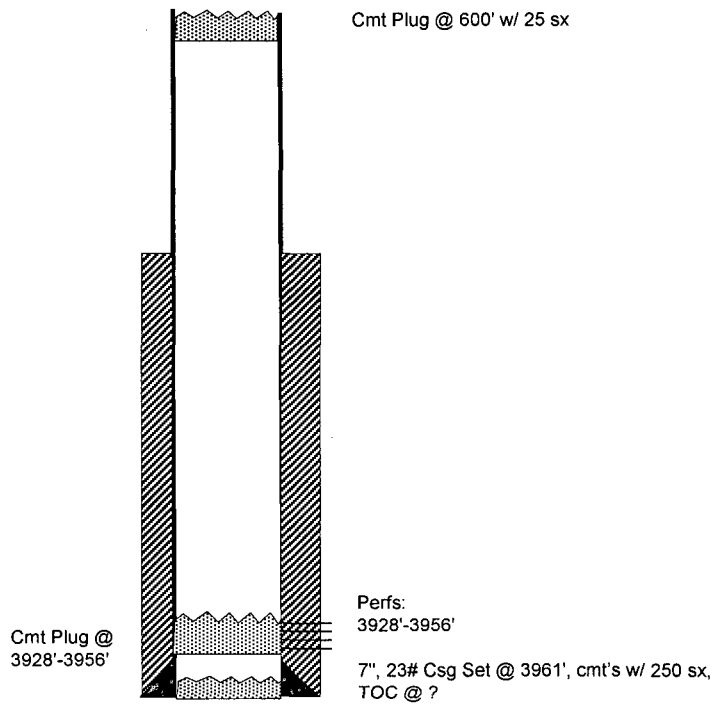
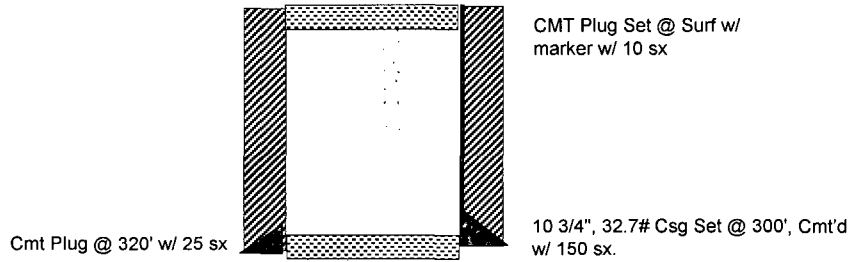
P.D.L. 4028

S. Haller

Well Plugged  
July 1970

Morris R Antweil

STATE "O" #1  
660' FSL & 1980' FWL, UNIT X, S-31, T18-S,R-37-E  
LEA CO.



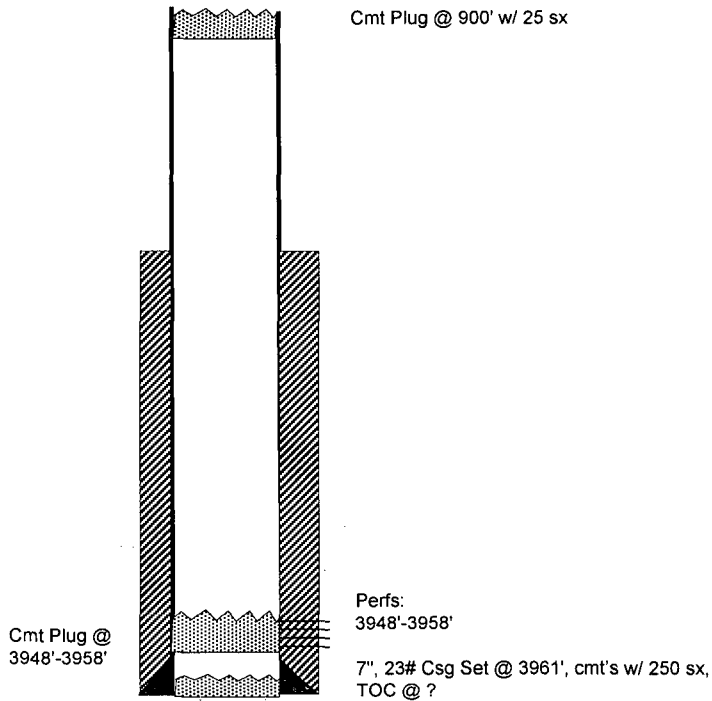
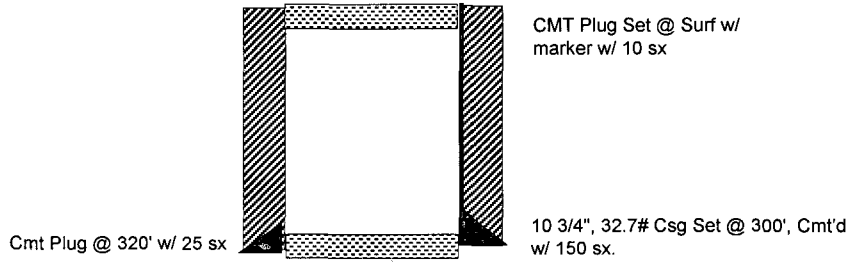
TD: 3961

*Shallow*

Well Plugged  
July 1970

Morris R Antweil

STATE "O" #2  
1650' FSL & 2290' FWL, UNIT K, S-31, T18-S,R-37-E  
LEA CO.



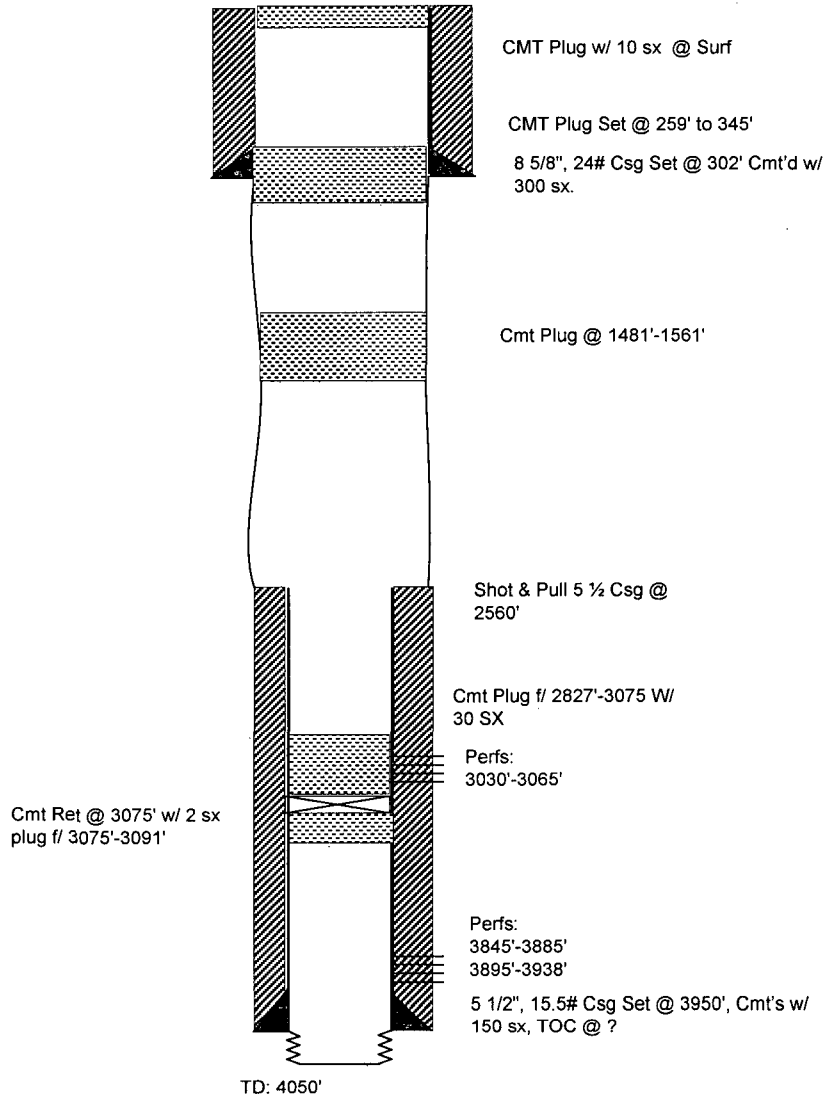
PBTD: 3967'  
TD: 3976

*Shallow*

Well Plugged  
July 1957

Amerada Petroleum Corp.

STATE WM "E" #1  
1980' FNL & 1980' FWL, UNIT F, S-31, T18-S,R-37-E  
LEA CO.

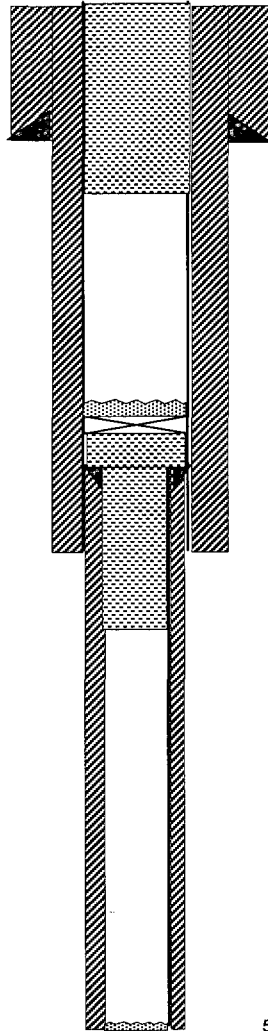


*S. Haller*

Well Plugged  
Feb 1991

Amerada Petroleum Corp.

STATE WM "E" #2  
660' FSL & 660' FWL, UNIT D, S-31, T18-S,R-37-E  
LEA CO.



CMT Plug Set @ 353' to  
Surf

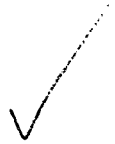
10 3/4", 29# Csg Set @ 332" Cmt'd w/  
300 sx.

Cmt Ret @ 2828', pmp 375  
sx cmt below and 25 sx on  
top.

7 5/8", 26.4# Csg Set @ 2965" Cmt'd  
w/ 1250 sx.

5 1/2", 115.5 & 17# Csg Liner Set @ 7459',  
Cmt's w/ 350 sx,

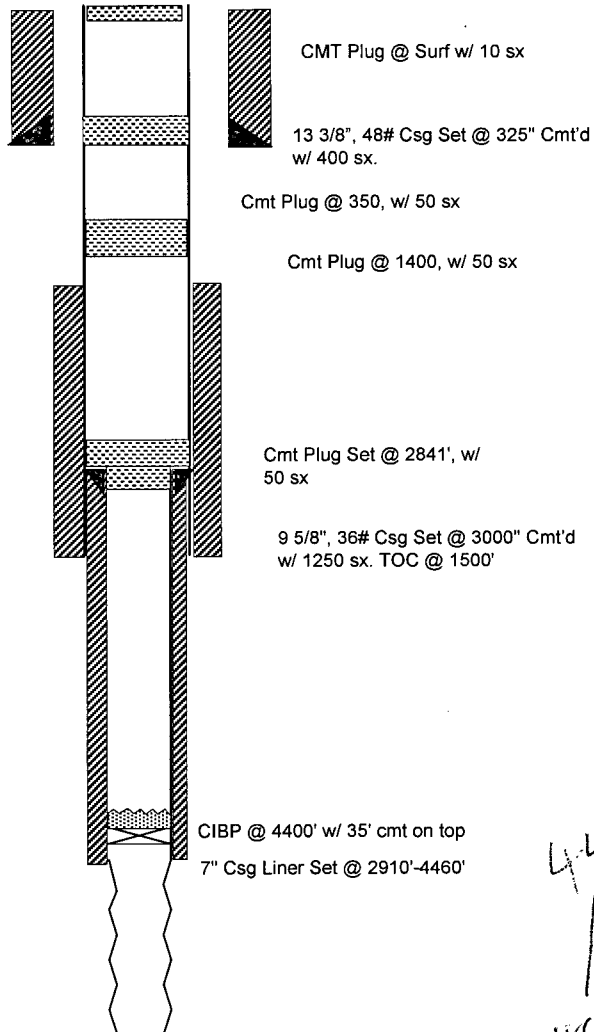
TD: 7460



Well Plugged  
Sept 2000

Amerada Petroleum Corp.

STATE, WM 'E' #3  
660' FEL & 1980' FWL, UNIT D, S-31, T18-S, R-37-E  
LEA CO.



TD: 7460

4460  
/ open  
7460

THIS IS  
Far away #1  
From Goodwin State  
So OK



# Water Analysis Report

9/25/2007

Address:

Customer: XTO Energy, Inc.  
Attention: David Paschal

Lease: MONUMENT STATE 36  
Formation:  
Salesman: Mike Baker

*Produced Water*

CC:

Target Name: MONUMENT 36 STATE 2

Sample Point: MONUMENT STATE 36 2

Sample Date: 09/10/2007

Test Date: 09/24/2007

## Water Analysis(mg/L)

Calcium	2486
Magnesium	778
Barium	
Strontium	
Sodium(calc.)	28287
Bicarbonate Alkalinity	1086
Sulfate	3595
Chloride	47000
Resistivity	0.0769

## Appended Data(mg/L)

CO2	140
H2S	667
Iron	149
Oxygen	

## Physical Properties

Ionic Strength(calc.)	1.55
pH(calc.)	6.69
Temperature(°F)	90
Pressure(psia)	50
Density	8.81

## Additional Data

Specific Gravity	1.06
Total Dissolved Solids(Mg/L)	83381
Total Hardness(CaCO3 Eq Mg/	9404

Dew Point	
Lead	
Zinc	

## Calcite Calculation Information

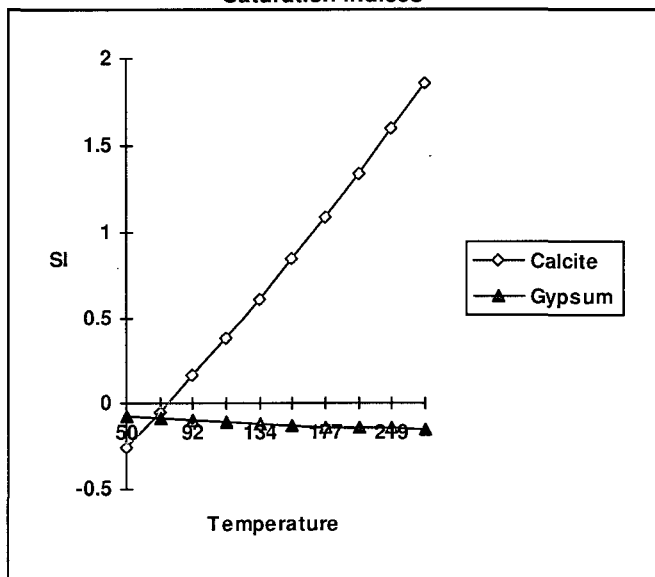
Calculation Method	Value
CO2 in Brine(mg/L)	140

Remarks:

## SI & PTB Results

Scale Type	SI	PTB
Calcite (Calcium Carbonate)	0.14	82.80
Gypsum (Calcium Sulfate)	-0.10	
Hemihydrate (Calcium Sulfate)	-0.11	
Anhydrite (Calcium Sulfate)	-0.24	
Barite (Barium Sulfate)		
Celestite (Strontium Sulfate)		

## Saturation Indices



## Saturation Index Data Points

	50	71	92	113	134	156	177	198	219	240
Calcite	-0.26	-0.05	0.16	0.38	0.61	0.85	1.09	1.34	1.60	1.86
Gypsum	-0.08	-0.09	-0.10	-0.11	-0.12	-0.13	-0.14	-0.14	-0.14	-0.15

Lab Tech.: *[Signature]*



# Water Analysis Report

9/25/2007

Address:

Customer: XTO Energy, Inc.

Attention: David Paschal

Lease: MONUMENT STATE 36

Formation:

Salesman: Mike Baker

*Produced Water*

CC:

Target Name: Monument State 36 *03*

Sample Point: Monument State 36 *03*

Sample Date: 09/10/2007

Test Date: 09/24/2007

## Water Analysis(mg/L)

Calcium	7298
Magnesium	6853
Barium	
Strontium	
Sodium(calc.)	48055
Bicarbonate Alkalinity	134
Sulfate	2604
Chloride	105000
Resistivity	0.0377

## Appended Data(mg/L)

CO2	500
H2S	222
Iron	8
Oxygen	

## Physical Properties

Ionic Strength(calc.)	3.51
pH(calc.)	5.73
Temperature(°F)	90
Pressure(psia)	50
Density	9.31

## Additional Data

Specific Gravity	1.12
Total Dissolved Solids(Mg/L)	169952
Total Hardness(CaCO3 Eq Mg/	46331

Dew Point	
Lead	
Zinc	

## Calcite Calculation Information

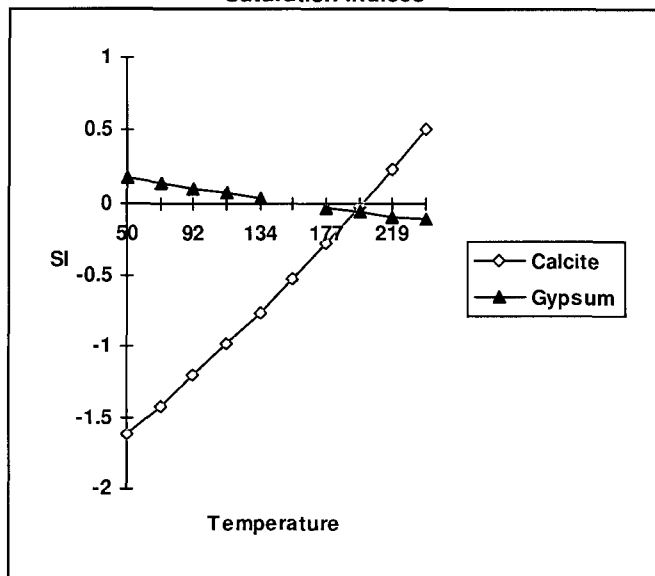
Calculation Method	Value
CO2 in Brine(mg/L)	500

Remarks:

## SI & PTB Results

Scale Type	SI	PTB
Calcite (Calcium Carbonate)	-1.23	
Gypsum (Calcium Sulfate)	0.11	278.90
Hemihydrate (Calcium Sulfate)	0.07	162.80
Anhydrite (Calcium Sulfate)	0.18	339.40
Barite (Barium Sulfate)		
Celestite (Strontium Sulfate)		

## Saturation Indices



## Saturation Index Data Points

	50	71	92	113	134	156	177	198	219	240
Calcite	-1.62	-1.42	-1.20	-0.98	-0.76	-0.52	-0.28	-0.03	0.23	0.50
Gypsum	0.18	0.14	0.10	0.07	0.03	0.00	-0.03	-0.06	-0.09	-0.11

Lab Tech.: *[Signature]*



# Water Analysis Report

9/25/2007

Address:

Customer: XTO Energy, Inc.

Lease: MONUMENT STATE 36

Attention: David Paschal

Formation:

Salesman: Mike Baker

CC:

Target Name: Monument State 36 Windmill

Sample Point: Monument State 36 Windmill

Fresh water

Sample Date: 09/19/2007

Test Date: 09/24/2007

**Water Analysis(mg/L)**

Calcium	112
Magnesium	24
Barium	
Strontium	
Sodium(calc.)	
Bicarbonate Alkalinity	
Sulfate	47
Chloride	164
Resistivity	

**Appended Data(mg/L)**

CO2	
H2S	
Iron	0
Oxygen	

**Additional Data**

Specific Gravity	
Total Dissolved Solids(Mg/L)	
Total Hardness(CaCO3 Eq Mg/	378

**Physical Properties**

Ionic Strength(calc.)	0.01
pH(calc.)	
Temperature(°F)	90
Pressure(psia)	50
Density	

Dew Point	
Lead	
Zinc	

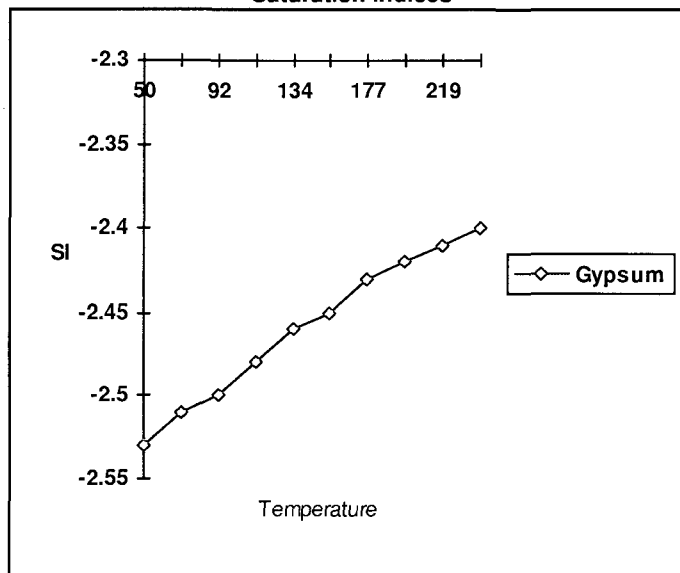
**Calcite Calculation Information**

Calculation Method	Value
Mole Percent CO2	

Remarks:

**SI & PTB Results**

Scale Type	SI	PTB
Calcite (Calcium Carbonate)		
Gypsum (Calcium Sulfate)	-2.50	
Hemihydrate (Calcium Sulfate)	-2.22	
Anhydrite (Calcium Sulfate)	-2.74	
Barite (Barium Sulfate)		
Celestite (Strontium Sulfate)		

**Saturation Indices****Saturation Index Data Points**

	50	71	92	113	134	156	177	198	219	240
Gypsum	-2.53	-2.51	-2.50	-2.48	-2.46	-2.45	-2.43	-2.42	-2.41	-2.40

Lab Tech.:

**Jones, William V., EMNRD**

---

**From:** Jones, William V., EMNRD  
**Sent:** Tuesday, January 08, 2008 9:05 PM  
**To:** 'Kristy\_Ward@xtoenergy.com'  
**Cc:** Ezeanyim, Richard, EMNRD; Brooks, David K., EMNRD; Kautz, Paul, EMNRD; Sanchez, Daniel J., EMNRD  
**Subject:** SWD Application from XTO: Goodwin 10 State SWD #1 30-025-34760

Hello Ms. Ward:

After reviewing this application, we have the following questions:

- 1) Please send one page with all formation tops picked from the Rustler through the Wolfcamp. Ask your geologist to talk a little about the Drinkard Reef as I am not familiar with it - talk about the suitability for injection into this reef and if other wells are injecting into it.
- 2) You advertised for injection from 4600 to 7766, but your writeup and diagram says that the actual perms would be 4700 to 7050. I suspect this was intentional?
- 3) Your well appears to be slanted. Please let me know what BH location is for the top of the intended injection perforation.
- 4) Let me know if the Goodwin State #1 is still within 2640 feet. The Goodwin State #1 appears to have an open annulus from 5350 to the Rustler - so the Salt and all formations down to 5350 (approx top of Bone Spring?) are exposed. If this well is within the AOR, we can write the permit conditional upon XTO raising the cement top in the AOR well. Apparently this well was approved for injection into the San Andres but never used for this - it would have required some casing well work first. Alternately, we can approve the permit if XTO stays below 5400 feet with injection - in the Bone Spring or below. Let me know what you prefer.
- 5) As this has changed recently: Please have your Landman read Division Rule 701B.(2) and ensure that all Notice is properly done. Send Proof of date of notice to the New Mexico State Land Office as they are the surface owner, and also to BP (if they are the Lessees in the NE NE of Section 1 T19S 36E) You do not have to notice past operators of P&Aed wells unless they are still the lessee in the vicinity of the plugged well.
- 6) Read the Division Rule 40 and check on XTO's number of inactive wells - let me know if there is any limitation on issuing an injection permit to XTO per Rule 40.

Thank You,

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

1/8/2008

**Jones, William V., EMNRD**

---

**From:** Kristy\_Ward@xtoenergy.com  
**Sent:** Monday, January 14, 2008 10:18 AM  
**To:** Jones, William V., EMNRD  
**Subject:** Fw: SWD Application from XTO: Goodwin 10 State SWD #1 30-025-34760

**Attachments:** Goodwin State 10 #1\_Initial Compl\_Zone Tops.pdf; Deviation Plot.xls



Goodwin State 10 Deviation Plot.xls  
#1\_Initial Co... (26 KB)

Mr. Jones, below I have shown in the bold print the responses to your questions. I also will mail the original to your office. Please let me know if you have additional questions.

Thanks,

Kristy S. Ward  
XTO Energy, Inc.  
Ph: 432-620-6740  
Fax: 432-684-9681  
kristy\_ward@xtoenergy.com

*1/16/08*  
*- WAITING ON FINAL PART OF NOTICE*

----- Forwarded by Kristy Ward/MID/CTOC on 01/09/2008 02:33 PM -----

"Jones, William  
V., EMNRD"  
<William.V.Jones  
@state.nm.us>

01/08/2008 10:04  
PM

<Kristy\_Ward@xtoenergy.com>

To

cc

"Ezeanyim, Richard, EMNRD"  
<richard.ezeanyim@state.nm.us>,  
"Brooks, David K., EMNRD"  
<david.brooks@state.nm.us>, "Kautz,  
Paul, EMNRD"  
<paul.kautz@state.nm.us>, "Sanchez,  
Daniel J., EMNRD"  
<daniel.sanchez@state.nm.us>

Subject

SWD Application from XTO: Goodwin 10  
State SWD #1 30-025-34760

Hello Ms. Ward:

After reviewing this application, we have the following questions:

1) Please send one page with all formation tops picked from the Rustler through the Wolfcamp. Ask your geologist to talk a little about the Drinkard Reef as I am not familiar with it - talk about the suitability for injection into this reef and if other wells are injecting into it.

TOPS ATTACHED.

RESPONSE: Drinkard - 7000 feet for the top. This interval is the equivalent to the lower Clear Fork on the Texas side of the Central Basin Platform. The Drinkard is a member of the Yeso Formation and is considered a restricted platform carbonate. The best porosity and permeability of the rock is found in the grain dominated limestone facies.

(See attached file: Goodwin State 10 #1\_Initial Compl\_Zone Tops.pdf)

2) You advertised for injection from 4600 to 7766, but your writeup and diagram says that the actual perms would be 4700 to 7050. I suspect this was intentional?

YES.

3) Your well appears to be slanted. Please let me know what BH location is for the top of the intended injection perforation.

RESPONSE: This well is 2620' from the Goodwin State #1 according to the deviation interpretation below by our Drilling group. We request an exception in considering the Goodwin State #1 as we are 20' from the regulated 2640' in considering the Goodwin State #1 in our permit.

Providing the exception will eliminate question #4 in considering the interval of injection as it relates to their cement top.

(See attached file: Deviation Plot.xls)

4) Let me know if the Goodwin State #1 is still within 2640 feet. The Goodwin State #1 appears to have an open annulus from 5350 to the Rustler - so the Salt and all formations down to 5350 (approx top of Bone Spring?) are exposed. If this well is within the AOR, we can write the permit conditional upon XTO raising the cement top in the AOR well. Apparently this well was approved for injection into the San Andres but never used for this - it would have required some casing well work first. Alternately, we can approve the permit if XTO stays below 5400 feet with injection - in the Bone Spring or below. Let me know what you prefer.

See Question #3 above.

5) As this has changed recently: Please have your Landman read Division Rule 701B.(2) and ensure that all Notice is properly done. Send Proof of date of notice to the New Mexico State Land Office as they are the surface owner, and also to BP (if they are the Lessees in the NE NE of Section 1 T19S 36E) You do not have to notice past operators of P&Aed wells unless they are still the lessee in the vicinity of the plugged well.

ATTACHED IN THE MAIL.

6) Read the Division Rule 40 and check on XTO's number of inactive wells - let me know if there is any limitation on issuing an injection permit to XTO per Rule 40.

OUR INACTIVE WELL LIST IS CURRENT AND WITHIN THE DIVISION RULE 40.

Thank You,

William V. Jones PE

**Jones, William V., EMNRD**

---

**From:** Jones, William V., EMNRD  
**Sent:** Thursday, January 24, 2008 3:15 PM  
**To:** 'Kristy\_Ward@xtoenergy.com'  
**Subject:** RE: SWD Application from XTO: Goodwin 10 State SWD #1 30-025-34760

Kristy:

I got that by email and hard copy, but it showed "notice" to the surface tenant and to BP, but did not include notice to the State Land Office.

Will

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

-----Original Message-----

**From:** Kristy\_Ward@xtoenergy.com [mailto:Kristy\_Ward@xtoenergy.com]  
**Sent:** Thursday, January 24, 2008 2:52 PM  
**To:** Jones, William V., EMNRD  
**Subject:** RE: SWD Application from XTO: Goodwin 10 State SWD #1 30-025-34760

Mr. Jones, I mailed you an original package of what I emailed you (showing proof of notifications) on January 14. Please let me know if you have not received this yet. I will resend it to you, maybe it is lost in the mail.

Thanks,

Kristy S. Ward  
XTO Energy, Inc.  
Ph: 432-620-6740  
Fax: 432-684-9681  
kristy\_ward@xtoenergy.com

"Jones, William  
V., EMNRD"  
<William.V.Jones@  
state.nm.us>

01/24/2008 02:31  
PM

<Kristy\_Ward@xtoenergy.com>

"Ezeanyim, Richard, EMNRD"  
<richard.ezeanyim@state.nm.us>

Subject  
RE: SWD Application from XTO:  
Goodwin 10 State SWD #1  
30-025-34760

Hello Kristy:

## Jones, William V., EMNRD

---

**From:** Jones, William V., EMNRD  
**Sent:** Thursday, January 24, 2008 1:31 PM  
**To:** 'Kristy\_Ward@xtoenergy.com'  
**Cc:** Ezeanyim, Richard, EMNRD  
**Subject:** RE: SWD Application from XTO: Goodwin 10 State SWD #1 30-025-34760

Hello Kristy:  
Thanks for the info:

I have a note that I am still waiting on Proof of Notice to the New Mexico State Land Office (as the surface owner)

Will

-----Original Message-----

From: Kristy\_Ward@xtoenergy.com [mailto:Kristy\_Ward@xtoenergy.com]  
Sent: Monday, January 14, 2008 10:18 AM  
To: Jones, William V., EMNRD  
Subject: Fw: SWD Application from XTO: Goodwin 10 State SWD #1 30-025-34760

Mr. Jones, below I have shown in the bold print the responses to your questions. I also will mail the original to your office. Please let me know if you have additional questions.

Thanks,

Kristy S. Ward  
XTO Energy, Inc.  
Ph: 432-620-6740  
Fax: 432-684-9681  
kristy\_ward@xtoenergy.com

----- Forwarded by Kristy Ward/MID/CTOC on 01/09/2008 02:33 PM -----

"Jones, William  
V., EMNRD"  
<William.V.Jones  
@state.nm.us>

01/08/2008 10:04  
PM

To  
<Kristy\_Ward@xtoenergy.com>

CC

"Ezeanyim, Richard, EMNRD"  
<richard.ezeanyim@state.nm.us>,  
"Brooks, David K., EMNRD"  
<david.brooks@state.nm.us>, "Kautz,  
Paul, EMNRD"  
<paul.kautz@state.nm.us>, "Sanchez,  
Daniel J., EMNRD"  
<daniel.sanchez@state.nm.us>

Subject  
SWD Application from XTO: Goodwin 10



January 25, 2008

New Mexico State Land Office  
Oil, Gas, and Minerals Division  
310 Old Santa Fe Trail  
Santa Fe, NM 87504-1148

Re: Surface Owner Notice  
Application to Convert Well to SWD  
Goodwin 10 State #1 SWD  
API # 30-025-34760

To Whom It May Concern:

This letter is to notify you that XTO Energy Inc. has submitted to the Oil Conservation Division an application to convert a well to injection. Our records indicate that you are a surface owner. Attached is a copy of the application sent to the Oil Conservation Division for your review.

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

If you have any questions please call me at 432-620-6740.

Sincerely,

Kristy Ward  
Regulatory

**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:**

New Mexico State Land Office  
310 Old Santa Fe Trail  
Santa Fe, NM 87504-1148

**2. Article Number**

(Transfer from service label)

7007 0220 0002 5083 9508

PS Form 3811, August 2001

Domestic Return Receipt

102595-1

**COMPLETE THIS SECTION ON DELIVERY**

**A. Signature**

X

☐ Agent

☐ Addressee

**B. Received by (Printed Name)**

**C. Date of Delivery**

- D. Is delivery address different from item 1?** ☐ Yes  
If YES, enter delivery address below: ☐ No

**3. Service Type**

- ☐ Certified Mail ☐ Express Mail  
☐ Registered ☐ Return Receipt for Merchandise  
☐ Insured Mail ☐ C.O.D.

**4. Restricted Delivery? (Extra Fee)**

☐ Yes

RECEIVED  
2008 JAN 29 PM 1 45



January 25, 2008

New Mexico State Land Office  
Commercial Division  
310 Old Santa Fe Trail  
Santa Fe, NM 87504-1148

Re: Surface Owner Notice  
Application to Convert Well to SWD  
Goodwin 10 State #1 SWD  
API # 30-025-34760

To Whom It May Concern:

This letter is to notify you that XTO Energy Inc. has submitted to the Oil Conservation Division an application to convert a well to injection. Our records indicate that you are a surface owner. Attached is a copy of the application sent to the Oil Conservation Division for your review.

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

If you have any questions please call me at 432-620-6740.

Sincerely,

Kristy Ward



For delivery information visit our website at [www.usps.com](http://www.usps.com)

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Postage

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Certified Fee

Return Receipt Fee  
(Endorsement Required)

Restricted Delivery Fee  
(Endorsement Required)

Total Postage & Fees

\$

Postmark  
Here

Sent to  
New Mexico State Land Office  
Street, Apt. No.,  
or PO Box No. 310 Old Santa Fe Trail  
City, State, ZIP+4  
Santa Fe, NM 87504-1148

00 · Midland, Texas 79701 · (432) 682-8873 · Fax: (432) 687-0862



January 15, 2008

BP America, Inc.  
501 Westlake Park Blvd.  
Houston, TX 77079

Re: Lessees Notification Ltr.  
NE NE of Section 1, T-19S, R-36E  
Goodwin 10 State #1 SWD

To Whom It May Concern:

This letter is to notify you that XTO Energy Inc. has submitted to the Oil Conservation Division, an application to convert a well to SWD. Our records indicate that you are an offset operator. Attached is a copy of the application sent to the Oil Conservation Division for your review.

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

If you have any questions please call me at 432-620-6740.

Sincerely,

Kristy Ward  
Regulatory



7007 0220 0002 5083 9720  
7007 0220 0002 5083 9720

U.S. Postal Service™	
CERTIFIED MAIL™ RECEIPT	
(Domestic Mail Only; No Insurance Coverage Provided)	
For delivery information visit our website at <a href="http://www.usps.com">www.usps.com</a>	
OFFICIAL USE	
Postage	\$
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Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$
Sent To	
BP America, Inc.	
Street, Apt. No., or PO Box No. 501 Westlake Park Blvd.	
City, State, ZIP+4	
Houston, TX 77079	
PS Form 3800, August 2006	
See Reverse for Instructions	



January 15, 2008

State of New Mexico  
Grazing Permit is GT-3046  
Bruce & Arlene Carlin Estate  
c/o Timothy J. Carlin  
P.O. Box 188  
Monument, NM 88265

Re: Surface Owner Notice  
Application to Convert Well to SWD  
Goodwin 10 State #1 SWD

To Whom It May Concern:

This letter is to notify you that XTO Energy Inc. has submitted to the Oil Conservation Division an application to convert a well to injection. Our records indicate that you are a surface owner. Attached is a copy of the application sent to the Oil Conservation Division for your review.

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

If you have any questions please call me at 432-620-6740.

Sincerely,

Kristy Ward  
Regulatory

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT  
OF THE RETURN ADDRESS. FOLD AT DOTTED LINE.  
CERTIFIED MAIL

7007 0220 0002 5083 9713  
7007 0220 0002 5083 9713

U.S. Postal Service <sup>TM</sup>	
CERTIFIED MAIL <sup>TM</sup> RECEIPT	
(Domestic Mail Only; No Insurance Coverage Provided)	
For delivery information visit our website at <a href="http://www.usps.com">www.usps.com</a> .	
OFFICIAL USE	
Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$
Postmark Here	
Sent To State of New Mexico - Bruce & Arlene Carlin	
Street, Apt. No., or PO Box No. P.O. Box 188	
City, State, ZIP+4 Monument, NM 88265	
PS Form 3800, August 2006	
See Reverse for Instructions	



November 15, 2007

HRC, Inc.  
P.O. Box 5102  
Hobbs, NM 88241

Re: Offset Operator Notification

To Whom It May Concern:

This letter is to notify you that XTO Energy Inc. has submitted to the Oil Conservation Division, an application to convert a well to injection. Our records indicate that you are an offset operator. Attached is a copy of the application sent to the Oil Conservation Division for your review.

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

If you have any questions please call me at 432-620-6740.

Sincerely,

A handwritten signature in cursive script that reads 'Kristy Ward'.

Kristy Ward  
Regulatory

# Advertising Receipt

REC'D / MIDLAND  
OCT 26 2007

## Hobbs Daily News-Sun

201 N Thorp  
P O Box 850  
Hobbs, NM 88241-0850  
Phone: (505) 393-2123  
Fax: (505) 397-0610

ATTN: KRISTY WARD  
XTO ENERGY INC.  
200 LORAIN, SUITE 800  
MIDLAND, TX 79701

**Cust#:** 01102696-000  
**Ad#:** 67546857  
**Phone:** (432)682-8873  
**Date:** 10/19/07

**Ad taker:** C2

**Salesperson:** 05

**Classification:** 672

Description	Start	Stop	Ins.	Cost/Day	Surcharges	Total
07 07 Daily News-Sun	10/23/07	10/23/07	1	23.52		23.52
Bold						1.00
Affidavit for legals						3.00

### Payment Reference:

LEGAL NOTICE  
October 23, 2007

Notice of Application for Fluid Injection Well Permit  
Goodwin 10 State SWD #1

**Total:** □ 27.52

**Tax:** 1.84

**Net:** 29.36

**Prepaid:** 0.00

**Total Due** 29.36

XTO Energy, Inc., 200 N. Loraine, Ste. 800, Midland, Texas 79701, Attention - Kristy Ward - 432-620-6740, has applied for a permit to dispose fluid into a formation which is productive of oil and gas. The applicant proposes to dispose fluid at the location of Unit Ltr. L, Section 31, Township - 18S, Range - 37E, footage location of this well is 2160' FSL & 330' FWL. The API # is 30-025-34760. Fluid will be disposed into the Drinkard formation at a depth interval from 4700' - 7350', with a maximum injection rate of 3000 BWIPD and a maximum injection pressure of 2000 psi.

All interested parties must file objection or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, NM 87505, within 15 days.

AFFIDAVIT OF PUBLICATION

State of New Mexico,  
County of Lea.

I, KATHI BEARDEN

PUBLISHER

of the Hobbs News-Sun, a  
newspaper published at  
Hobbs, New Mexico, do solemnly  
swear that the clipping attached  
hereto was published once a  
week in the regular and entire  
issue of said paper, and not a  
supplement thereof for a period.

of 1  
\_\_\_\_\_ weeks.

Beginning with the issue dated

October 23 2007

and ending with the issue dated

October 23 2007

*Kathi Bearden*

PUBLISHER

Sworn and subscribed to before

me this 23rd day of

October 2007

Notary Public.

My Commission expires  
February 07, 2009  
(Seal)



OFFICIAL SEAL  
DOÑA MONTZ  
NOTARY PUBLIC  
STATE OF NEW MEXICO

My Commission Expires: \_\_\_\_\_

This newspaper is duly qualified  
to publish legal notices or adver-  
tisements within the meaning of  
Section 3, Chapter 167, Laws of  
1937, and payment of fees for  
said publication has been made.

LEGAL NOTICE  
October 23, 2007

Notice of Application for Fluid Injection Well Permit  
Goodwin 10 State SWD #1

XTO Energy, Inc., 200 N. Loraine, Ste. 800, Midland, Texas 79701, Attention - Kristy Ward - 432-620-6740, has applied for a permit to dispose fluid into a formation which is productive of oil and gas. The applicant proposes to dispose fluid at the location of Unit Ltr. L, Section 31, Township - 18S, Range - 37E, footage location of this well is 2160' FSL & 330' FWL. The API # is 30-025-34760. Fluid will be disposed into the Drinkard formation at a depth interval from 4700' - 7350', with a maximum injection rate of 3000 BWIPD and a maximum injection pressure of 2000 psi.

All interested parties must file objection or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, NM 87505, within 15 days.  
#23604

01102696000 67546857  
XTO ENERGY INC.  
200 LORAIN, SUITE 800  
MIDLAND, TX 79701

# Injection Permit Checklist 2/8/07

SWD Order Number 1114 Dates: Division Approved \_\_\_\_\_ District Approved \_\_\_\_\_

Well Name/Num: Goodwin 10 State #1 Date Spudded: 11/23/99

API Num: (30-) 025-34760 County: Lee

Footages 2160 FSL/330 FWL Sec 31 Tsp 18S Rge 37E

Operator Name: XTO Energy, INC Contact Kristy Ward

Operator Address: 200 N. LORRAINE, SUITE 800 MIDLAND TX, 79704

Current Status of Well: P&A Planned Work: \_\_\_\_\_ Inj. Tubing Size: 2 3/8" 4650

	Hole/Pipe Sizes	Depths	Cement	Top/Method
Surface	<u>12 1/2 9 5/8</u>		<u>605</u>	<u>CIRC</u>
Intermediate				
Production	<u>8 3/4 5 1/2</u>		<u>2010</u>	<u>CIRC (both stages)</u>
Last DV Tool		<u>4808'</u>		
Open Hole/Liner				
Plug Back Depth		<u>7792</u>		

Diagrams Included (Y/N): Before Conversion ✓ After Conversion ✓

Checks (Y/N): Well File Reviewed ✓ ELogs in Imaging ✓

Intervals:	Depths	Formation	Producing (Yes/No)
Salt/Potash			
Capitan Reef			
Cliff House, Etc:			
Formation Above	<u>4008</u>	<u>GBG SA</u>	
Top Inj Interval	<u>4600</u>	<u>SA</u>	
Bottom Inj Interval	<u>7766 OK</u>	<u>ABO</u>	
Formation Below	<u>8387</u>	<u>WC</u>	

4700' = Del  
5347 = BS  
6693 = TUBB  
7000 = Drilled Reef

9/10 PSI Max. WHIP

NO Open Hole (Y/N)

NO Deviated Hole (Y/N)

Fresh Water: Depths: 0-200 Wells(Y/N) \_\_\_\_\_ Analysis Included (Y/N): Yes Affirmative Statement ✓

Salt Water Analysis: Injection Zone (Y/N/NA) \_\_\_\_\_ DispWaters (Y/N/NA) \_\_\_\_\_ Types: Mang

Notice: Newspaper(Y/N) ✓ Surface Owner SLO Mineral Owner(s) \_\_\_\_\_

Other Affected Parties: Brown Carbide ST, HRC

AOR/Repairs: NumActiveWells 4 Repairs? Maybe Producing in Injection Interval in AOR Yes

AOR Num of P&A Wells 2 Repairs? NO Diagrams Included? Yes RBDMS Updated (Y/N) \_\_\_\_\_

Well Table Adequate (Y/N) Yes AOR STRs: Sec \_\_\_\_\_ Tsp \_\_\_\_\_ Rge \_\_\_\_\_ UIC Form Completed (Y/N) \_\_\_\_\_

New AOR Table Filename \_\_\_\_\_ Sec \_\_\_\_\_ Tsp \_\_\_\_\_ Rge \_\_\_\_\_ This Form completed \_\_\_\_\_

Conditions of Approval: Sec \_\_\_\_\_ Tsp \_\_\_\_\_ Rge \_\_\_\_\_ Data Request Sent \_\_\_\_\_

Self, SWAB each new zone  
Sent NOTICE TO SLO. 7/01/02 (B.P. Lutz)  
Stay below 5400'  
check BH on Georgia State #1  
Set CIBP within 200' of Bottom  
check AOR  
Deviated - where to?

AOR Required Work: \_\_\_\_\_

Required Work to this Well: \_\_\_\_\_