

221947007

SWA

8/21/02

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 4-1-98

**APPLICATION FOR AUTHORIZATION TO INJECT**

- I. PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage  
Application qualifies for administrative approval? X Yes No
- II. OPERATOR: Tempo Energy, Inc.  
ADDRESS: PO Box 1034 Midland, TX 79702  
CONTACT PARTY: Frank Pannell PHONE: 915-689-2951
- 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: \_\_\_\_\_
- 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:
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.
- 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: Jim Pannell TITLE: President  
SIGNATURE: [Signature] DATE: 7/18/02
- \* 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

# Tempo Energy, Inc.

PO Box 1034  
Midland TX 79702

(915) 689-2951

July 25, 2002

## Application for Authorization to Inject

(30-025-27358)

### III

- A. 1) Exxon Federal No. 1, Section 8, T-~~26~~<sup>15</sup>-S, R-32-E, 660' ~~FNL~~ & 660' FEL, Lea County, NM.
- (2) Casing: 8 5/8" 24# @ 582' & Cemented w/ 400 sx circulated in 12 1/2" hole.  
4 1/2" 10.50 # @ 4399' & Cemented w/ 50 sx in 7 7/8" hole, cement calculated @ 3900'. Open hole from 4399' to 4444'.
- (3) Tubing will be 2 3/8" 4.70# J-55 PC set @ 4300'
- (4) Packer will be Baker Model "R" Production Packer set @ 4300'

### B.

- (1) Injection zone: Delaware Sand (Lamar & Ramsey Zone) North mason Delaware Field
- (2) Injection Interval 4399' to 4444' open hole
- (3) Well drilled for production, shut in
- (4) No other zones perforated
- (5) None

### VII

- (1) 2000 BBLS day (average) 3000 BBLS/day maximum
- (2) Open System
- (3) 250 PSI average w/ maximum PSI 900
- (4) Produced water – Delaware formation ———— ✓
- (5) Injection of formation water into productive zone

### IX

- (1) No stimulation required

### X

- (1) Well logs attached

### XI

- (1) No producing water wells in the area ✓

### XII

- (1) We find no evidence of open faults or other hydrologic connection between the disposal zone and any underground source of drinking water

### XIII

Proof of Notice completed

2,600?

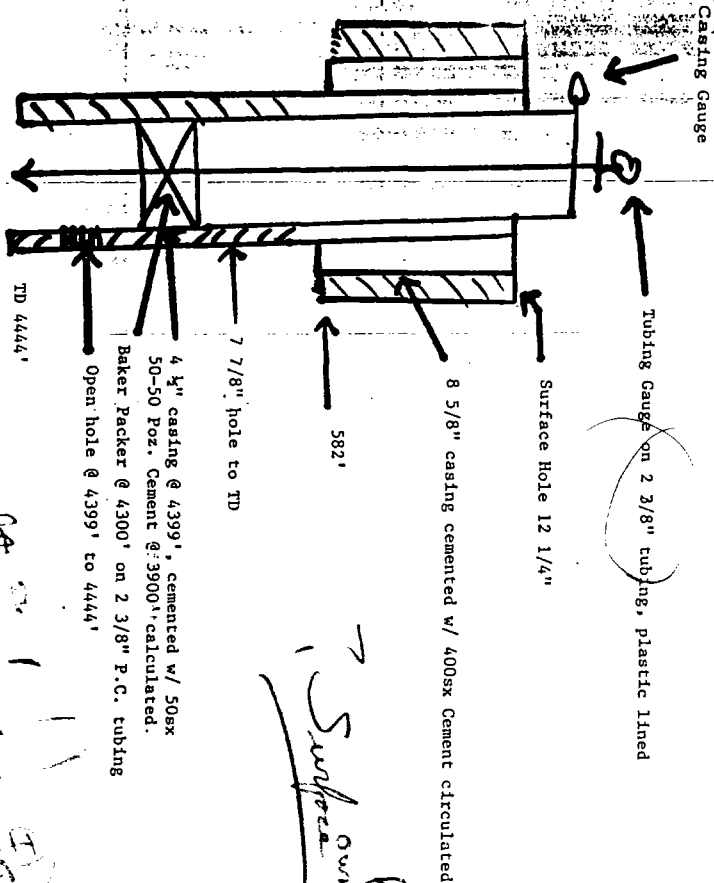
## INJECTION WELL DATA SHEET

OPERATOR: Tempo Energy, Inc.WELL NAME & NUMBER: Exxon Forrest Federal No. 1WELL LOCATION: 660' FEL & 660' FEL

FOOTAGE LOCATION

UNIT LETTER PSECTION 8TOWNSHIP 26SRANGE 32EWELLBORE SCHEMATICWELL CONSTRUCTION DATA  
Surface Casing

Exxon Forrest Federal #1 Well

Hole Size: 12 1/2"Casing Size: 8 5/8" @ 582'Cemented with: 400 SX.or ft<sup>3</sup>Top of Cement: circulatedMethod Determined: circulatedIntermediate Casing

Hole Size: \_\_\_\_\_

Casing Size: \_\_\_\_\_

Cemented with: \_\_\_\_\_ SX.

or ft<sup>3</sup>

Top of Cement: \_\_\_\_\_

Method Determined: \_\_\_\_\_

Production CasingHole Size: 7 7/8"Casing Size: 4 1/2" 10.50# @ 4399'Cemented with: 50 SX.or ft<sup>3</sup>Top of Cement: 3900'Method Determined: Est.Total Depth: 4444'Injection Interval

\_\_\_\_\_ 4399' \_\_\_\_\_ feet to \_\_\_\_\_ 4444' (open hole) \_\_\_\_\_

(Perforated or Open Hole, indicate which)

Handwritten notes:

- Base of 50' 4399' (42' 15" 15")
- No. 2 Surface well
- PLUG PLANNED?
- Sand Perforated in H560K

**INJECTION WELL DATA SHEET**

Tubing Size: 2 7/8" 6.50# J-55 Lining Material: PC

Type of Packer: Baker Model R

Packer Setting Depth: 4300'

Other Type of Tubing/Casing Seal (if applicable): \_\_\_\_\_

Additional Data

1. Is this a new well drilled for injection? \_\_\_\_\_ Yes X No

If no, for what purpose was the well originally drilled? oil well

2. Name of the Injection Formation: Delaware

3. Name of Field or Pool (if applicable): North Mason Delaware

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. N/A

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: None



[illegible]



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

July 21 2002

and ending with the issue dated

July 21 2002

Kathi Bearden

Publisher

Sworn and subscribed to before

me this 22nd day of

July 2002

Jodi Benson

Notary Public.

My Commission expires  
October 18, 2004  
(Seal)

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  
July 21, 2002

CONVERT WELL TO  
SALTWATER DISPOSAL

FSL  
Tempo Energy, Inc., PO  
Box 1034, Midland, TX  
79702, Mr. Jim Pannell,  
President, intends for the  
purpose of produced water  
disposal to convert its Exxon  
Forrest Federal No. 1, locat-  
ed 660' FNL and (water) 660'  
FEL, Sec. 8, T-26-S, R-32-  
E, Lea County, New Mexico,  
from a shut-in oil well to a  
saltwater disposal well, the  
said well being completed in  
the Delaware Sand (Ram-  
sey zone) at 4399 to 4444.  
Operator plans to dispose of  
produced water at a rate of  
approximately 2000 bbls.  
per day with a surface pres-  
sure of about 250 PSI. Any  
objections to this intent or  
requests for hearing must  
be filed with the New Mexico  
Oil Conservation Division,  
PO Box 2088, Santa Fe,  
New Mexico 87301 within  
15 days from date of this  
publication.  
#19111

02105896000

02557513

TEMPO Energy, Inc.  
PO Box 1034  
MIDLAND, TX 79702

# Tempo Energy, Inc.

PO Box 1034  
Midland TX 79702

(915) 689-2951

July 18, 2002

Robert H. Forrest, Jr.  
609 Elora  
Carlsbad, New Mexico 88220

Quay Valley, Inc.  
PO Box 10280  
Midland, TX 79702

Re: Exxon Forrest Federal # 1  
Section 8, T26S, R32E,  
Lea County, New Mexico

Gentlemen:

Enclosed is a copy of Tempo Energy's application to convert the above referenced well into a disposal well.

If you have any objections or comments, please notify us immediately.

Yours very truly

Jim Pannell  
President

Enclosures

# U.S. Postal Service CERTIFIED MAIL RECEIPT

(Domestic Mail Only; No Insurance Coverage Provided)

Postage	\$	Postmark Here
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	

Sent To Quay Valley

Street, Apt. No.,  
or PO Box No.

City, State, ZIP+4

PS Form 3800, January 2001 See Reverse for Instructions

# U.S. Postal Service CERTIFIED MAIL RECEIPT

(Domestic Mail Only; No Insurance Coverage Provided)

Postage	\$	Postmark Here
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	

Sent To Robert H Forrest

Street, Apt. No.,  
or PO Box No.

City, State, ZIP+4

PS Form 3800, January 2001 See Reverse for Instructions

Thank you for using Return Receipt Service.

<p><b>SENDER:</b></p> <ul style="list-style-type: none"> <li>Complete items 1 and/or 2 for additional services.</li> <li>Complete items 3, and 4a &amp; b.</li> <li>Print your name and address on the reverse of this form so that we can return this card to you.</li> <li>Attach this form to the front of the mailpiece, or on the back if space does not permit.</li> <li>Write "Return Receipt Requested" on the mailpiece below the article number.</li> <li>The Return Receipt will show to whom the article was delivered and the date delivered.</li> </ul>	<p>I also wish to receive the following services (for an extra fee):</p> <ol style="list-style-type: none"> <li><input type="checkbox"/> Addressee's Address</li> <li><input type="checkbox"/> Restricted Delivery</li> </ol> <p>Consult postmaster for fee.</p>
<p>3. Article Addressed to:</p> <p>Quay Valley, Inc. PO Box 10280 Midland, TX 79702</p>	<p>4b. Service Type</p> <p><input type="checkbox"/> Registered <input type="checkbox"/> Insured</p> <p><input type="checkbox"/> Certified <input type="checkbox"/> COD</p> <p><input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise</p> <p>7. Date of Delivery <u>7/19/02</u></p>
<p>5. Signature (Addressee) <u>Sharon Cernal</u></p> <p>6. Signature (Agent) <u>Sharon Cernal</u></p>	<p>8. Addressee's Address (Only if requested and fee is paid)</p>

PS Form 3811, December 1991 \*U.S. GPO: 1993-352-714 DOMESTIC RETURN RECEIPT

Thank you for using Return Receipt Service.

<p><b>SENDER:</b></p> <ul style="list-style-type: none"> <li>Complete items 1 and/or 2 for additional services.</li> <li>Complete items 3, and 4a &amp; b.</li> <li>Print your name and address on the reverse of this form so that we can return this card to you.</li> <li>Attach this form to the front of the mailpiece, or on the back if space does not permit.</li> <li>Write "Return Receipt Requested" on the mailpiece below the article number.</li> <li>The Return Receipt will show to whom the article was delivered and the date delivered.</li> </ul>	<p>I also wish to receive the following services (for an extra fee):</p> <ol style="list-style-type: none"> <li><input type="checkbox"/> Addressee's Address</li> <li><input type="checkbox"/> Restricted Delivery</li> </ol> <p>Consult postmaster for fee.</p>
<p>3. Article Addressed to:</p> <p>Robert H. Forrest, Jr. 609 Elora Carlsbad, New Mexico 88220</p>	<p>4b. Service Type</p> <p><input type="checkbox"/> Registered <input type="checkbox"/> Insured</p> <p><input type="checkbox"/> Certified <input type="checkbox"/> COD</p> <p><input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise</p> <p>7. Date of Delivery <u>7-19-02</u></p>
<p>5. Signature (Addressee) <u>Branda Forrest</u></p> <p>6. Signature (Agent) <u>Branda Forrest</u></p>	<p>8. Addressee's Address (Only if requested and fee is paid)</p>

PS Form 3811, December 1991 \*U.S. GPO: 1993-352-714 DOMESTIC RETURN RECEIPT



Quay Valley

Highland Federal # 1

1. Type: Oil Pumping
2. Construction: Typical Oil well
3. Date Drilled: 12-15-1985
4. Location: Unit O, Section 8, T26S, R32E, Lea County , NM
5. Depth 4430'
6. P & A 12-15-1993

Exxon Federal # 1

1. Type: Oil Pumping
2. Construction: Typical Oil well
3. Date Drilled: 4-27-1984
4. Location: I, Section 8, T26S, R32E, Lea County, NM
5. Depth: 4445'

Amoco Federal # 1

1. Type: Oil Pumping
2. Construction: Typical Oil well
3. Date Drilled: 6-29-1984
4. Location: J, Section 8, T26S, R32E, Lea County, NM
5. Depth: 4425'

R.H. Forrest, Jr.

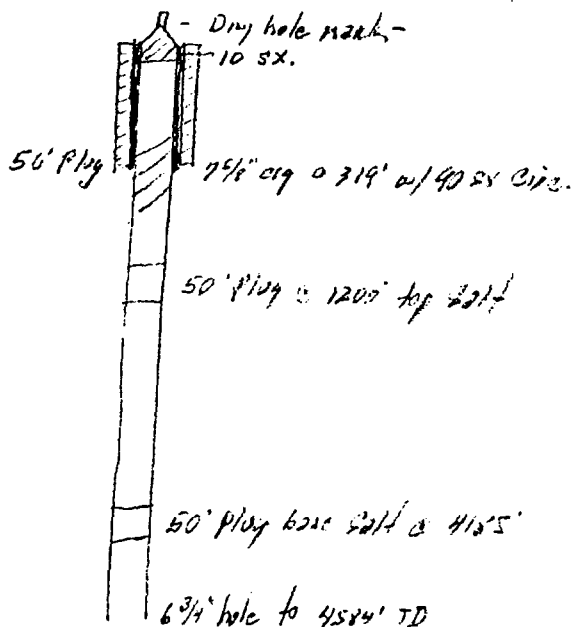
Ohio State No. 1

1. Type: Oil-pumping
2. Construction: Typical oil
3. Date Drilled: 3-2-82
4. Location: Unit A, 750' FNL & 400' FWL in Section 16, T-26-S, R-32-E, Lea County, New Mexico
5. Depth: 4449'
6. Completion Record: 5 1/2" casing set @ 4425' w/300 sx. of cement. Open hole from 4425' to 4449' Delaware; Acidize with 5,000 gallons; Fraced with 3150 gallons + 17,000# sand.
7. Plug Detail: None

Holt & Hissom Drilling Co.

State No. I

1. Type: Dry Hole
2. Construction: N/A
3. Date Drilled: 1-6-63
4. Location: Unit A 660' FNL & 660' FWL of Section 16, T-26-S, R-32-E, Lea County, New Mexico
5. Depth: 4584'
6. Completion Record: Plug and abandon.
7. Plug Detail:



68 1500  
750  
375 S BY

221947007 SWD

10/8/02

**Tempo Energy, Inc.**PO Box 1034  
Midland TX 79702

(915) 689-2951

September 18, 2002

SEP 23 2002

Mr. William V. Jones, Jr. PE  
Oil Conservation Division  
1220 South Francis Drive  
Santa Fe, New Mexico 87505

Ferry

Re: Administrative Application for SWD: Exxon Federal Well #1, Section 8, T26S, R32E, NMPM, Lea County, New Mexico.

Dear Sir:

Per your request and confirming my telephone conversation with you on August 13, 2002, please find Tempo Energy's reply to each question raised in your letter:

- 1) By copy of this letter and phone call, I am notifying OCD- Hobbs Division, that the correct legal description of the above referenced well is 660' FSL and 660' FEL as shown on the Midland Map Co. map. The ad in the newspaper will be re-run (copy & certification attached) in the Hobbs Daily Sun, with the correct address of the OCD Office in Santa Fe as well as the 660' FSL (instead of FNL).
- 2) Per our discussion, there is no damage to surrounding wells from the injection process (it is estimated that the injection process may aid in sweeping oil & gas to the offset well bores).
- 3) Cementing tops and bottoms are as follows:
  - A) Exxon Federal #001- Quay Valley, Inc.  
8 5/8" 24# Csg. Set @ 1093' in a 11" hole, using 550 sacks cement, cement circulated (calculated). Production string 5 1/2" 14.0# set @ 4439' in 7 7/8" hole, cemented with 700 sacks. Cement top estimated @ 400'-1100'
  - B) Amoco Federal #001- Quay Valley, Inc.  
Surface 8 5/8" 24# Csg set @ 1040' in a 12 1/4" hole, cemented with 550 sacks cement. Cement circulated (calculation).  
Production- 5 1/2" 15.50# set @ 4407' in 7 7/8" hole with 700 sacks cement. Calculated top 400'-1100'.
  - C) Highland Federal #001- Quay Valley, Inc. Drilled 12-15-1985, Plugged 12-15-1993  
Surface 8 5/8" 24.0# set @ 1051' in 12 1/4" hole cemented with 600 sacks- calculated top- circulated Calculated.  
Production- 5 1/2" 15.50# Csg. set @ 4407' in 7 7/8" hole, cemented with 700 sacks, calculated top cement 1100'. (See plugging schematic attached)
  - D) Exxon Forrest Federal #001 (Proposed new disposal well)  
Surf. Csg. 8 5/8" 24# set @ 582' in 12 1/2" hole, cemented with 400 sacks cement, circulated cement.

September 18, 2002

Production- 4 1/2" 10.50# set @ 4399' in 7 7/8" hole with 50 sacks, calculated top is @ 3900', open hole completed from 4399' to 4444'. (See attached test data for injection on this well)

- E) Exxon Federal #001- Tempo Energy, Inc.  
P&A 9-4-1991, See attached drawing
- F) Exxon Federal #002- Tempo Energy, Inc. Drilled 7-8-1983 (Current Injection well)  
8 5/8 24# set @ 1389' in 12 1/4" hole cemented with 250 sacks cement with 8% Gel + C Neat circulated cement

Production- 5 1/2" 17# csg set @ 4545' in 7 7/8" hole cemented with 150 sacks Cl. C  
Top cement estimated @ 3400', well perforated 4482'-4502' with 1 shot per foot.  
Currently injecting 300bbls/day of produced water.

- F) Ohio State #001- Robert H. Forrest, Jr. Drilled 3-2-1982
- G) Ohio State #001- Robert H. Forrest, Jr. Drilled 3-2-1982  
8 5/8" 24# set @ 540' in 10 5/8" hole, cemented with 350 sacks (circulated)  
5 1/2" Csg set @ 4425' with 300 sacks class C cement w/ 50/50 poz  
Open hole completion from 4425' to 4449', top of cement calculated @ 1100'

- 4) Attached, please find water analysis of sample water taken from Delaware Mason Zone (disposal zone also) as done by Omega Treating Chemicals Leslie Frazier in Midland, Texas.
- 5) As discussed, there are no fresh water wells in the immediate vicinity that we or our pumper is aware of.
- 6) Well bore diagrams on the two plugged wells in the area of review are as follows:

See attached diagrams

- 7) As stated in reply #1 above, the notification has been re-printed. The surface owner in this application is the Federal Government. Notice is given by copy of the entire application to the BLM.
- 8) We will be using 2 3/8" 4.70# J-55 EUE 8Rd plastic coated tubing in the well.
- 9) As per our phone conversation, the Exxon Federal #002 SWD operated by Tempo Energy currently injects approx. 300 bbls/day @ 700psi. If and when we get approval for our current project we plan to P&A this well as the operating pressures are staying consistently high. I am attaching our report on the proposed SWD where we ran tubing & a packer to 4353' feet and tested the well injection rates and pressures.
- 10) Per our discussion, I don't think you can effectively squeeze off the salt section. The current projected SWD has basically the same cement tops as our current SWD well. As you can see by the report, we had no leaks or psi build up while testing the proposed well.
- 11) As discussed, we know of no fresh water wells in the area.



August 7, 2002

Mr. Jim Pannell  
Tempo Energy, Inc.  
PO Box 1034  
Midland, Texas 79702

Re: Administrative Application for SWD: Exxon Forrest Federal Well No. 1  
Section 8, T26S, R32E, NMPM, Lea County, New Mexico.

Dear Mr. Pannell:

The division received your application August 6, 2002 and reviewed it for completion. After the first review, the following information is needed to complete your order:

- 1) Please work with the Hobbs District office of the Division to ensure Division records are accurate. Our database shows this well located 660 FNL instead of 660 FSL as shown on your Midland Map. Your application reads 660 FNL in several places including the newspaper notice.
- 2) See the attached Table of Area of Review Wells generated from NMOCD records. There are three (3) wells in this ½ mile area of review that are selling oil from Delaware pools. Please provide a signed engineering analysis of the effect on this Delaware production of saltwater injection. This analysis should include all assumptions, calculations, and conclusions. In order for injection to be approved, this action must not cause waste.
- 3) Please provide cementing and casing details showing cement tops and method for obtaining the cement tops on all six (6) wells in this area of review – see the attached for our record of wells in the Area of Review.
- 4) Please provide water analysis as specified in the Form C-108.
- 5) Provide a signed statement from a geologist – as per item XII.
- 6) Well bore diagrams needed on these wells: The two (2) wells plugged within the Area of Review, the proposed SWD before conversion and the proposed SWD after conversion.



- 7) Concerning item XIII (proof of notification): Please inform us of the surface owner and include proof of notification to that owner in this application. Please correct the wording in the newspaper notice to reflect the correct well location and the current address of the NMOCD – see our web site at [www.emnrd.state.nm.us/ocd](http://www.emnrd.state.nm.us/ocd) - and repost the notice in the newspaper.
- 8) Your application specifies 2 7/8" injection tubing on the Injection Well Data Sheet while 2 3/8" seems more likely.
- 9) Tempo currently operates a Delaware SWD well in this vicinity (Exxon Fed #002) that has been inactive for some time and may be on a list for plugging. Please include records of pressure and injection volumes into this well and describe why it is shut in and cannot still be used for injection.
- 10) Records show the proposed well will be injecting just below the salt section. Is the 50-sack cement job sufficient for separation?
- 11) Please list the location and name of the nearest fresh water well.

Pending receipt of these items, your application is being returned to you. Please reapply as needed. Remember, we must wait 15 days after receiving your properly completed Salt Water Disposal application in this office – with proper proof of notifications - before it can be approved.

If I can be of further assistance, please call (505) 476-3448.

Sincerely,

William V Jones Jr. PE

cc: Oil Conservation Division-Hobbs

EXXON FEDERAL #1

TEMPO ENERGY

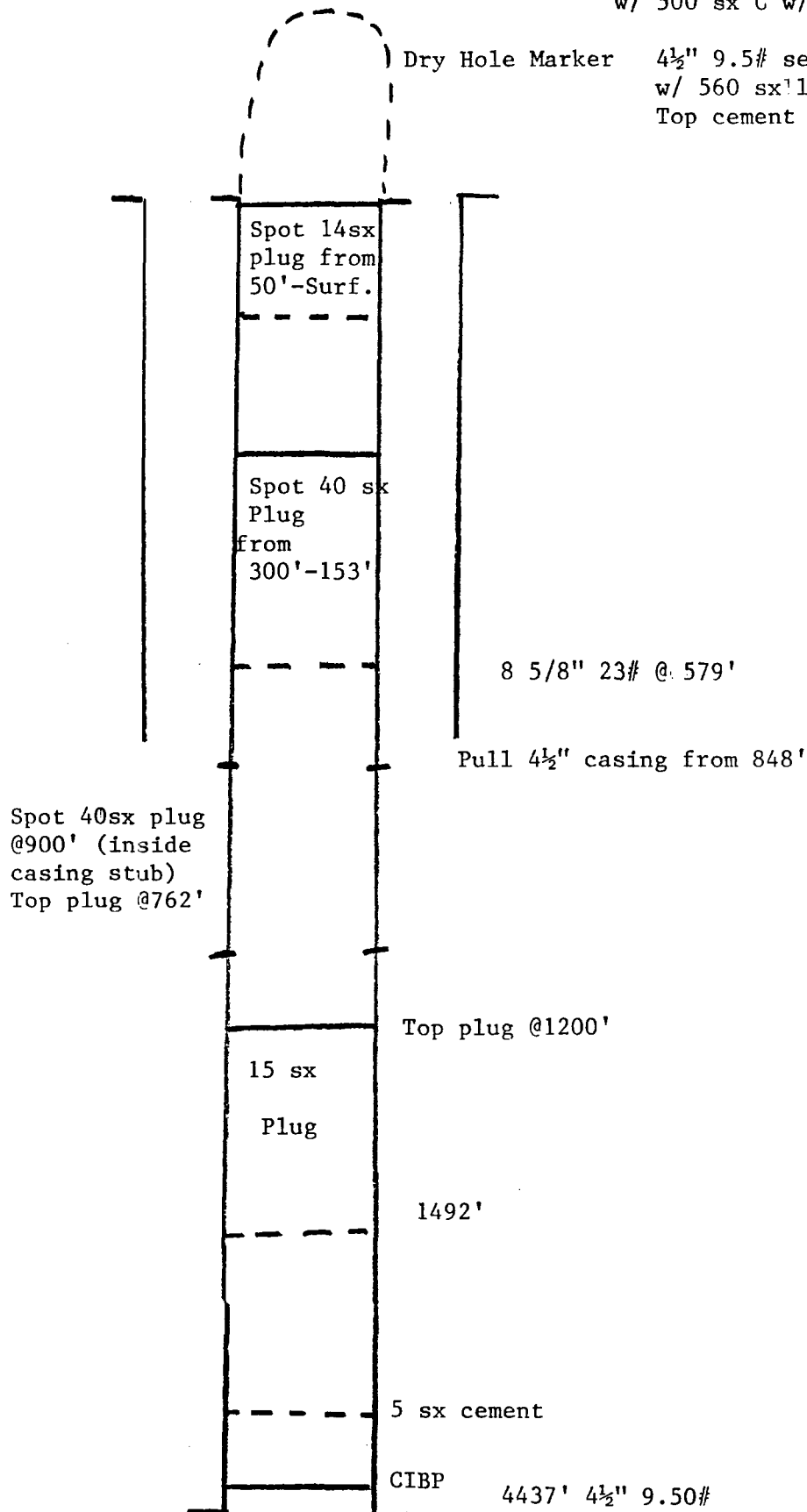
DRILLED 9--4-81

PLUGGED 9--17-91

8 5/8" 23# set @ 579' in 12 1/4" hole  
w/ 500 sx C w/ 2% Calc. Circulated

Dry Hole Marker

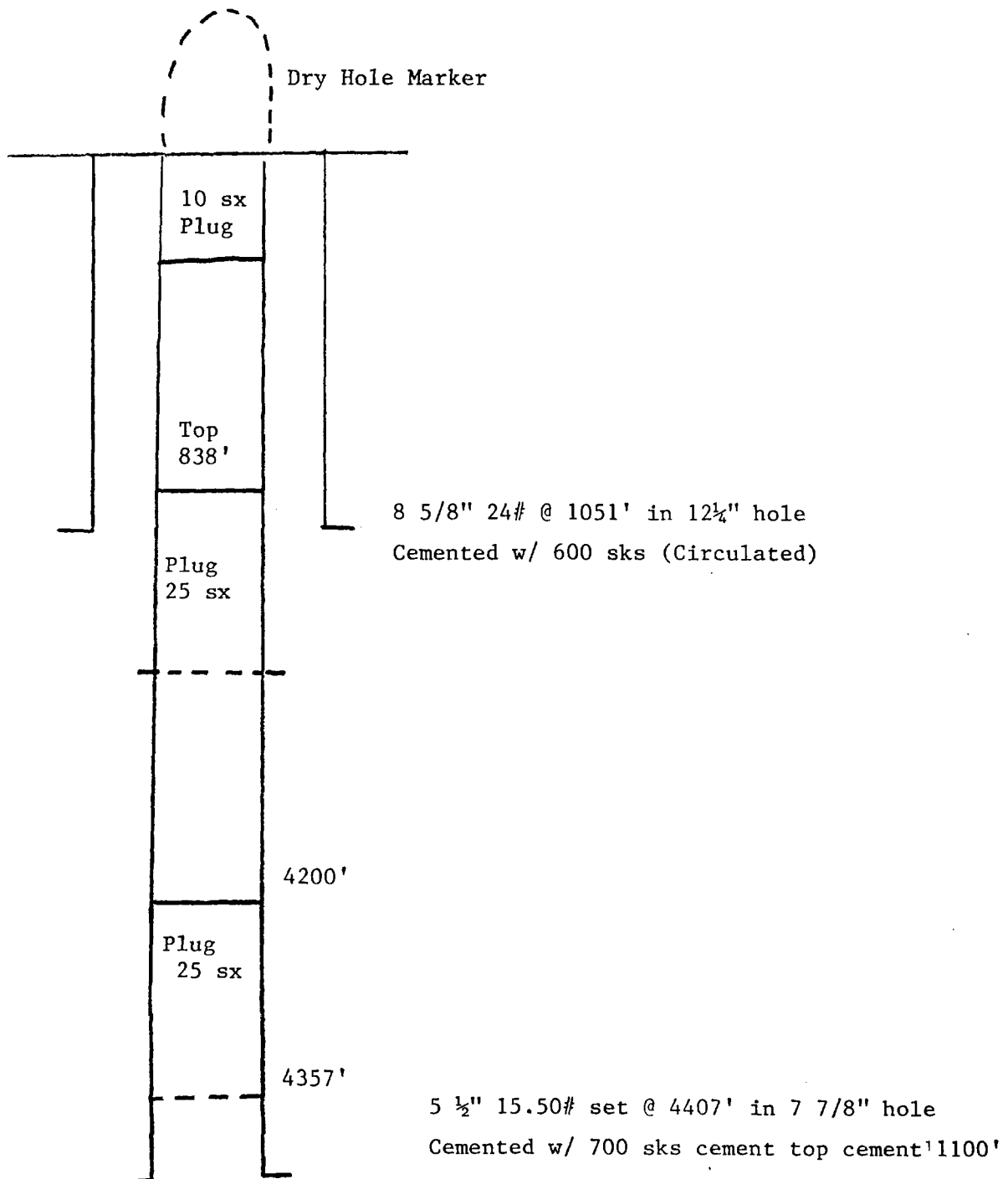
4 1/2" 9.5# set @4437' in 7 7/8" hole  
w/ 560 sx lite cement & 300sx Class C  
Top cement approx. 1100'



HIGHLAND FEDERAL #001 - QUAY VALLEY

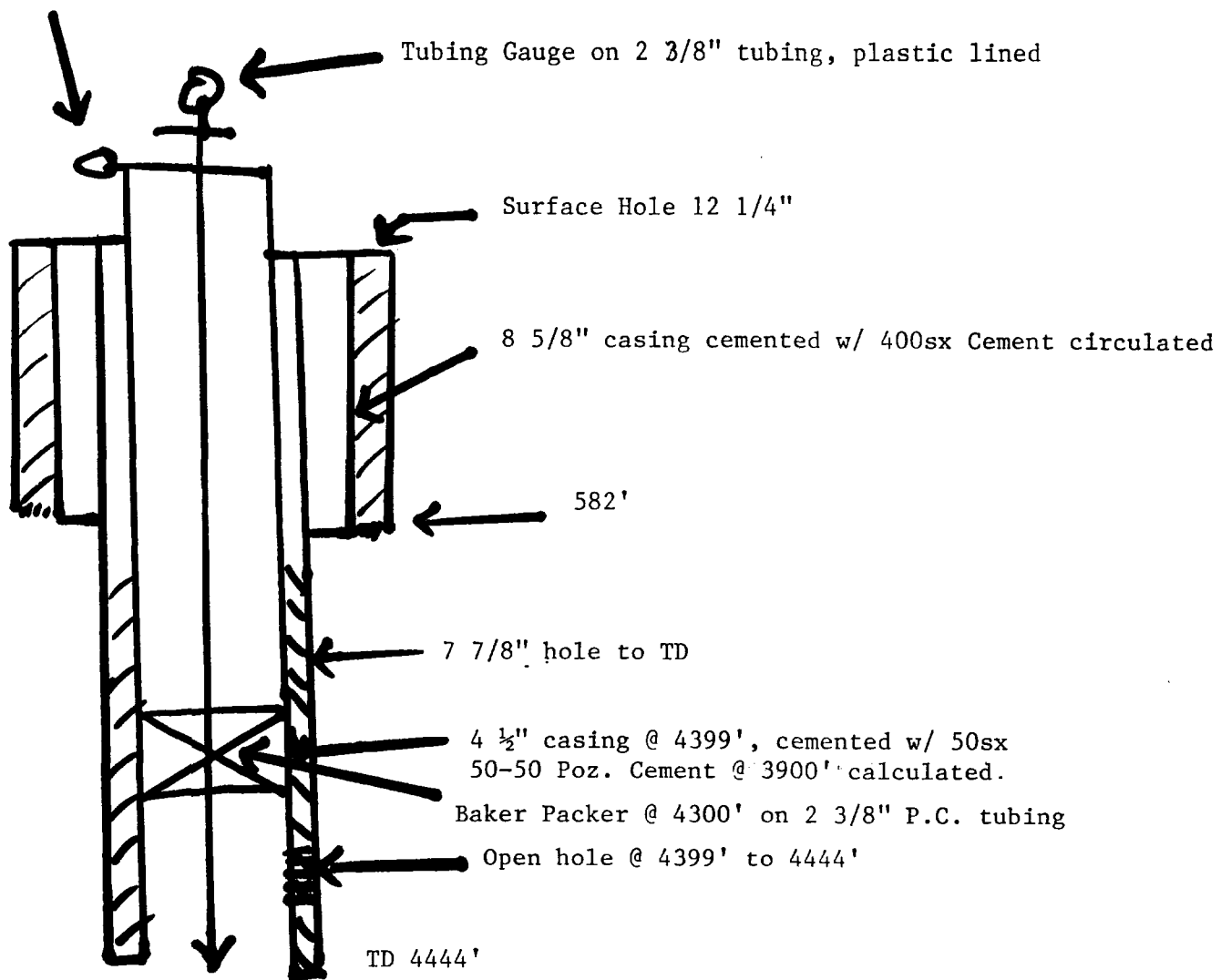
DRILLED 12-15-85

PLUGGED 12-20-93

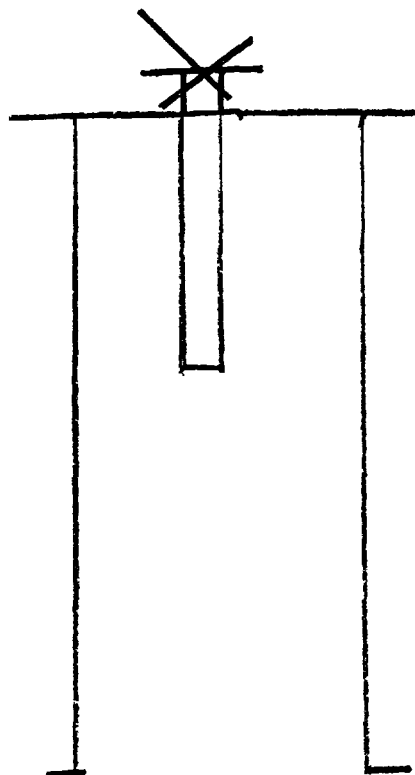


Exxon Frrest Federal #1 Well

Casing Gauge



PROPOSED SWD WELL PRIOR TO CONVERSION



WELL HEAD PACKED OFF AROUND  
1 JOINT TUBING



DATE: 9/10/02

OMEGA TREATING CHEMICALS, INC.  
2605 GARDEN CITY HWY.  
MIDLAND, TEXAS 79701

WATER ANALYSIS REPORT

COMPANY NAME: TEMPO ENERGY

LEASE NAME: DELAWARE WATER

WELL#\SAMPLE POINT:

1. WELLHEAD pH	7.64
2. H2S (QUALITATIVE)	0.00 PPM
3. CALCIUM (Ca)	10360.00 Mg/L
4. MAGNESIUM (Mg)	486.00 Mg/L
5. IRON (Fe)	2.17 PPM
6. SODIUM	49291.52 Mg/L
7. CHLORIDE (Cl)	93365.00 Mg/L
8. BICARBONATE (HCO3)	61.00 Mg/L
9. SULFATE (SO4)	36.2 Mg/L
10. TOTAL HARDNESS	27900.00 Mg/L
11. TOTAL DISSOLVED SOLIDS	153601.87 Mg/L
12. RESISTIVITY	0.05
13. CARBONATE SCALING TENDENCY	1.10
14. SULFATE SCALING TENDENCY	-22.50

BOPD \_\_\_\_

BWPD \_\_\_\_

REMARKS: \_\_\_\_\_

COPIES TO: FAX AND MAIL ORIGINAL TO FRANK PANNELL - 689-4811

# 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

August 23 2002

and ending with the issue dated

August 23 2002

Kathi Bearden

Publisher

Sworn and subscribed to before

me this 23rd day of

August 2002

Jodi Benson

Notary Public.

My Commission expires  
October 18, 2004  
(Seal)

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

August 23, 2002

### CONVERT WELL TO SALTWATER DISPOSAL

Tempo Energy, Inc., PO  
Box 1034, Midland, TX  
79702, Mr. Jim Pannell,  
President, intends for the  
purpose of produced water  
disposal to convert its Exxon  
Forrest Federal No. 1, locat-  
ed 660' FSL and water 660'  
FEL, Sec. 8, T-26-S, R-32-  
E, Lea County, New Mexico,  
from a shut-in oil well to a  
saltwater disposal well, the  
said well being completed in  
the Delaware Sand (Ram-  
sey zone) at 4399 to 4444.  
Operator plans to dispose of  
produced water at a rate of  
approximately 2000 bbls.  
per day with a surface pres-  
sure of about 250 PSI. Any  
objections to this intent or  
requests for hearing must  
be filed with the New Mexico  
Oil Conservation Division,  
1220 South Saint Francis  
Drive, Santa Fe, New Mexi-  
co 87505 within 15 days  
from date of this publication.  
#19193

02105896000 02558469

TEMPO Energy, Inc.  
PO Box 1034  
MIDLAND, TX 79702

## SERVICE INVOICE

Gene Mixon  
 206 N. Ave. C  
 Kermit, Texas 79745  
 1-915-586-5160

SERVICE FOR: Exxon Federal  
 Well No. #1

INVOICE NO. 21

JOB DESCRIPTION Well Service  
 DATE 3/24, 1998

BILL TO: Tempo Energy Inc.  
 Box 1712  
 Midland, Texas 79702

*including  
 additional  
 for P.S. #1*

DATE	SERVICE DESCRIPTION	Amount
2/17/98	L.A. Roustabout truck and went Phillips State Well No. 1. Got 10 joints of 2 3/8 tubing and went to Exxon Federal Well no. 1 and put tubing at well. Could not get a pulling unit.	250.00
2/18/98	Rig up Buster's Well Service unit and pulled the rods and pump out of the hole and rig up to pull the tubing. Tab bottom with the tubing and pulled the tubing out of the hole. Bottom was at 4453. GL. Shut Down.	250.00
2/19/98	Run a 4 1/2 packer on 137 joints of 2 3/8 tubing and set packer at 4353 and tested the casing to 500 PST for 30 minutes. Test OK. Pump 125 barrels of water down the tubing at 2 barrels a minute at 200 PST and pump 1 barrel a minute at 65 PSI. Pump 125 barrels. Shut Down well on a vacuum and pull and lay down tubing. 142 joints of 2 3/8 joints J55 tubing and packer and pack off well head and rig down pulling unit.	250.00
<p>Make checks payable:            Gene Mixon</p>		<p>TOTAL 750.00</p>

PAID  
 3-27-98

#5764