

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

Scan To:
SWD-853
30-025-27358

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 source 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) 688-2951

July 25, 2002

Application for Authorization to Inject

III

A. 1) Exxon Federal No. 1, Section 8, T-23-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

Side 1

INJECTION WELL DATA SHEET

OPERATOR: Tempo Energy, Inc.

WELL NAME & NUMBER: Exxon Forrest Federal No. 1

WELL LOCATION: 660' FNL & 660' FEL P 8 26S 32E
FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA Surface Casing

Exxon Forrest Federal #1 Well

Casing Gauge

Tubing Gauge on 2 3/8" tubing, plastic lined

Surface Hole 12 1/4"

8 5/8" casing cemented w/ 400sx Cement circulated

582'

7 7/8" hole to TD

4 1/2" casing @ 4399', cemented w/ 50sx
50-50 For. Cement @ 3900' recalculated.

Baker Packer @ 4300' on 2 3/8" P.C. tubing

Open hole @ 4399' to 4444'

TD 4444'

Hole Size: 12 1/2" Casing Size: 8 5/8" @582'

Cemented with: 400 SX. or

Top of Cement: circulated Method Determined: circulated

Intermediate Casing

Hole Size: Casing Size:

Cemented with: SX. or

Top of Cement: Method Determined:

Production Casing

Hole Size: 7 7/8" Casing Size: 4 1/2" 10.50# @ 4399

Cemented with: 50 SX. or

Top of Cement: 3900' Method Determined: Est.

Total Depth: 4444'

Injection Interval

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

(Perforated or Open Hole; indicate which)

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

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 Henderson

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**
Tempo Energy, Inc., PO
Box 1034, Midland, TX
79702. Mr. Jim Rannell,
President, intends for the
purpose of produced water
disposal to convert its Exxon
Forest Federal No. 1, locat-
ed 660' ENL 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

INJECTION WELL DATA SHEET

OPERATOR: Tempo Energy, Inc.WELL NAME & NUMBER: Exxon Forrest Federal No. 1WELL LOCATION: 660' FNL & 660' FEL
FOOTAGE LOCATIONP
UNIT LETTER8
SECTION26S
TOWNSHIP32E
RANGEWELLBORE SCHEMATICWELL CONSTRUCTION DATASurface CasingHole Size: 12 1/2" Casing Size: 8 5/8" @582'Cemented with: 400 SX. orTop of Cement: circulated Method Determined: circulatedIntermediate Casing

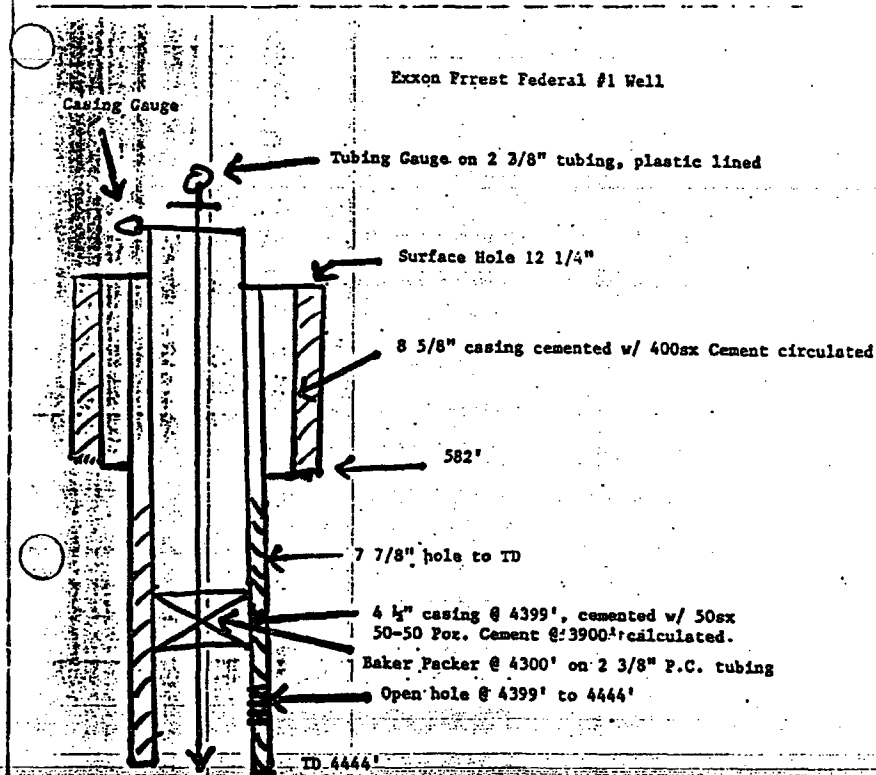
Hole Size: Casing Size:

Cemented with: SX. or

Top of Cement: Method Determined:

Production CasingHole Size: 7 7/8" Casing Size: 4 1/2" 10.50# @ 4399Cemented with: 50 SX. orTop of Cement: 3900' Method Determined: Est.Total Depth: 4444'Injection Interval4399' feet to 4444' ((open hole))

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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

Joelle Henson
Notary Public.

My Commission expires
October 18, 2004
(Seal)

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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-
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Operator plans to dispose of
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Oil Conservation Division,
PO Box 2088, Santa Fe,
New Mexico 87301 within
15 days from date of this
publication.

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

7001 0320 0003 9458 8947

U.S. Postal Service
CERTIFIED MAIL RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

OFFICIAL USE

Postage	\$	Postmark Here
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	
Sent To		
Street, Apt. No., or PO Box No.		
City, State, ZIP+4		

PS Form 3800, January 2001 See Reverse for Instructions

7001 0320 0003 9458 8930

U.S. Postal Service
CERTIFIED MAIL RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

OFFICIAL USE

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

SENDER: Complete items 1 and/or 2 for additional services.
• Complete items 3, 4a & b.
• Print your name and address on the reverse of this form so that we can return this card to you.
• Attach this form to the front of the mailpiece, or on the back if space does not permit.
• Write "Return Receipt Requested" on the mailpiece below the article number.
• The Return Receipt will show to whom the article was delivered and the date delivered.

3. Article Addressed to:
Quay Valley, Inc.
PO Box 10280
Midland, TX 79702

4b. Service Type
☐ Registered ☐ Insured
☐ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

7. Date of Delivery
7/19/02

8. Addressee's Address (Only if requested and fee is paid)

5. Signature (Addressee)
Sharon Cornal

6. Signature (Agent)
Sharon Cornal

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

Thank you for using Return Receipt Service

SENDER: Complete items 1 and/or 2 for additional services.
• Complete items 3, 4a & b.
• Print your name and address on the reverse of this form so that we can return this card to you.
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609 Elora
Carlsbad, New Mexico 88220

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☐ Registered ☐ Insured
☐ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

7. Date of Delivery
7-19-02

8. Addressee's Address (Only if requested and fee is paid)

5. Signature (Addressee)
Brenda Jones

6. Signature (Agent)
Brenda Jones

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

Type: Oil-pumping

Construction: Typical oil

Date Drilled: 3-2-82

Location: Unit A, 750' FNL & 400' FWL in Section 16, T-26-S, R-32-E,
Lea County, New Mexico

Depth: 4449'

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.

Plug Detail: None

Holt & Hissom Drilling Co.

State No. 1

Type: Dry Hole

Construction: N/A

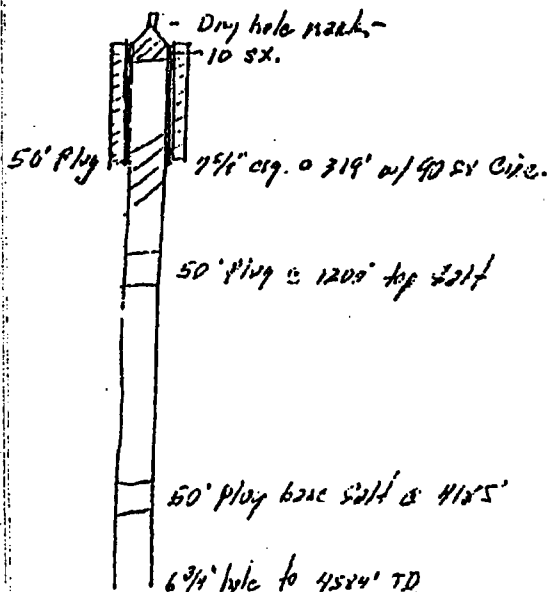
Date Drilled: 1-6-63

Location: Unit A 660' FNL & 660' FWL of Section 16, T-26-S, R-32-E,
Lea County, New Mexico

Depth: 4584'

Completion Record: Plug and abandon.

Plug Detail:



Handwritten notes:

68 150 750 375 5 68