# STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT APP

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, New Mexico 87505 Scon To: Swp. 853 FORM C-108 Revised 4-1-98

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

1.	PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage
	Application qualifies for administrative approval? Yes No
II.	OPERATOR: Tempo Energy, Inc.
	ADDRESS: PO Box 1034 Midland, TX 79702
	CONTACT PARTY: Frank Pannell PHONE: 915-689-2951
ui.	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:
	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.  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: 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

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' (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 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

INJECTION WELL DATA SHEET Side 1 OPERATOR: Tempo Energy, Inc. WELL NAME & NUMBER: \_\_Exxon Forrest Federal No. 1\_\_\_\_\_ WELL LOCATION: 660' FNL & 660' FEL TOWNSHIP SECTION RANGE UNIT LETTER **FOOTAGE LOCATION** WELL CONSTRUCTION DATA WELLBORE SCHEMATIC Surface Casing Hole Size: \_12 ½"\_\_\_\_\_ Casing Size: \_\_8 5/8" @582'\_\_\_ Exxon Frrest Federal #1 Well Cemented with: 400 sx. or \_\_\_\_ Tubing Gauge on 2 3/8" tubing, plastic lined Top of Cement: \_\_circulated \_\_\_\_\_ Method Determined: \_\_circulated Intermediate Casing Surface Hole 12 1/4" Casing Size: Hole Size: 8 5/8" casing cemented w/ 400sx Cement circulated Cemented with: \_\_\_\_\_sx. Top of Cement: \_\_\_\_\_ Method Determitied: \_\_\_\_ **Production Casing** 7 7/8" hole to TD 4 h" casing @ 4399', cemented w/ 50sx 50-50 Poz. Cement @:3900'rcalculated. Hole Size: 7 7/8" Casing Size: 4 1/4" 10.50# @ 4399 Baker Packer @ 4300' on 2 3/8" P.C. tubing Cemented with: 50 sx. or \_\_\_\_ Open hole @ 4399 to 4444 TD 4444 Top of Cement: \_\_3900' \_\_\_\_ Method Determined: \_\_Est. \_\_ Injection Interval

The state of the s

(Perforated or Open Hole; indicate which))

### INJECTION WELL DATA SHEET

Tubing Siz	ze: _2 7/8" 6.50# J-55Lining Material: _PC	•
Type of Pack	ker:Baker Model R	
Packer Setti	ing Depth:4300'	
Other Type	of Tubing/Casing Seal (if applicable):	
	Additional Data	
1. Is this	a new well drilled for injection? YesXNo	
If no, f	for what purpose was the well originally drilled?oil well	<u> </u>
2. Name of	of the Injection Formation:Delaware	
3. Name of	of Field or Pool (if applicable):North Mason Delaware	
	e well ever been perforated in any other zone(s)? List all such perforated als and give plugging detail, i.e. sacks of cement or plug(s) usedN/A	
		<del></del>
	ne name and depths of any oil or gas zones underlying or overlying the proposed on zone in this area:None	
	on 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.

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1	ris Nu	*	weeks.
Beginn	ing with	the issue	dated
	July 2	1	2002
and end	ling with	the issue	e dated
	July 2	1	2002
Lac	hi /	rande	
	Pub	lisher	o before
me this	22nd		day of

My Commission expires October 18, 2004 (Seal)

Notary Public.

July

2002

This newspaper is duly qualified to publish legal notices or advertisements 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
LEGAL WITH CONVERTINELL TO SALTWATER DISPOSAL

Tempo Energy, Inc. PO (Box 1034) Midland, TX (79702) Mr. Lim Rannell, Tresident Intends for the purpose of produced water daposat to convert its Exxon Forest Federal No. 1 located Section (Control of the purpose of produced water daposat to convert its Exxon FeL2, Sec 8, 1-26-8, R-32-E-Lea County New Mexico, from a capture in the Delaware Sand (Ramsey zone) at 4399 to 4444. Operator, plans to dispose of produced water at a rate of approximately 2000 bbis. per day with a surface pressure of about 250 PSI. Any objections to this intent or requests for hearing must be fleet with the New Mexico Olli Conservation Division, PO Box 2088, Santa Fe, New Mexico 87301 within 15 days from date of this publication 124.

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

## INJECTION WELL DATA SHEET

	)' FNL & 660' FEL	P	8		
FC	OOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE
WELLBORE	E SCHEMATIC		WELL C Surface	CONSTRUCTION DATE Casing	<u>A</u>
	Prrest Federal #1 Well	Hole Size: _12 ½"		Casing Size:8 5/8	3" @582'
Gauge		Cemented with: _ 4	00sx.	or	·
Tubing Gaug	e on 2 3/8" tubing, plastic lined	Top of Cement:ci	rculated	Method Determined	l:circulated
Surf	ace Hole 12 1/4"		Intermedia	ate Casing	
8 5/0	8" casing cemented w/ 400sx Cement circu	Hole Size:		Casing Size:	
		Cemented with:	sx.	or	
	582	Top of Cement:		Method Determined	l:
7 7/8" he	ole to TD		Productio	n Casing	
1 1 8	sing @ 4399', cemented w/ 50sx or. Cement @:3900!rcalculated.	Hole Size:7 7/8"		Casing Size:_4 1/4" 1	<b>0.50# @ 439</b> 9
Baker Pa	cker @ 4300' on 2 3/8" P.C. tubing	Cemented with:50	)sx.	or	
a 1 3 m 4444		Top of Cement:39	000'	Method Determined	Est
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			<u>Injection</u>	Interval	
		4399	). fee	t to 4444" ((op	

### 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
<ol> <li>Name of the Injection Formation:Delaware</li></ol>
5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:None

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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.

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	weeks
Beginning with the	ssue dated
July 21	2002
and ending with the	issue dated
July 21	2002
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Publishe Sworn and subscrib	er
me this 22nd	day of

2002

Tempo Energy, Inc. PO
SALTWATER DISPOSAL
Tempo Energy, Inc. PO
Box 1034, Midland, TX
79702 3 Mr. i Im Pannell,
President, Intends for the
Purpose of produced water
disposal to convert its Exxon
Forrest Federal No. 1, located 660, FNL and water 660'
FEL Sec 8, 13-26-S, R-32E-Leal County New Mexico,
from exshut-in oil well to a
saltwater disposal well, the
said well being completed in
the Delaware Sand (Ramsey zone) at 4399 to 4444.
Operator, plans to dispose of
produced water at a rate of
approximately 2000 bbls,
per day with a surface pressure of about 250 PSI. Any
objections to this intent or
requests for hearing must
be flied with the New Mexico
Oil Conservation Division,
PO Box 2088, Santa Fe,
New Mexico 87301 within
15 days from date of this
publication 123

My Commission expires October 18, 2004 (Seal)

Notary Public.

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

92105896000

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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** 

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### **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'

Ohio State No. 1

 $M_{\rm eff}$ 

Oil-pumping Type:

Construction: Typical oil

Date Drilled: |3-2-82

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

Depth: 34449'

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. T

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: 4584.1

Completion Record: Plug and abandon.

Plug Detail:

- Dry hele nack-

50' Play bose sold & 4185'

63/4 lule to 4584 TD