

APPLICATION FOR AUTHORIZATION TO INJECT

I. Purpose:  Secondary Recovery  Pressure Maintenance  Disposal  Storage  
Application qualifies for administrative approval?  yes  no

II. Operator: Jubilee Energy Corporation

Address: 4000 N. Big Spring, Suite 109, Midland, Texas 79705

Contact party: T. B. Garber Phone: 915-686-0431

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  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 produce 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 geological data on the injection zone including appropriate lithologic detail, geological 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 source 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 source 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: T. B. Garber Title President

Signature: [Signature] Date: 11-6-84

\* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance 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:

- (1) Lease name; Well No.; location by Section, Township, and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

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

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

## XIV. PROOF OF NOTICE

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

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

- (1) The name, address, phone number, and contact party for the applicant;
- (2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;
- (3) the formation name and depth with expected maximum injection rates and pressures; and
- (4) a notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 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.

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III. Well Data

- A. (1) Exxon "A" Federal No. 2, Section 27, T-24-S, R-32-E, 1980' fWL & 1980' FSL, Lea County, New Mexico.
- (2) Casing: 8 5/8" 24# @ 943' and cemented with 450 sx. Cement circulated. Set in 12 1/4" hole.  
5 1/2" 15.5# @ 4977' and cemented with 200 sx. Cement top @ 3800'. Set in 7 7/8" hole.
- (3) Tubing will be 2 7/8" 6.5# J-55 set @ 4800'.
- (4) Packer will be Baker Model "R" Production Packer.
- B. (1) Injection zone: Delaware sand (Ramsey zone)  
Double X Delaware Field
- (2) Injection interval: 4854' to 4872'. Preforated 1 shot/ft.
- (3) Well drilled for production and was a dry hole.
- (4) No other zones perforated.
- (5) None.

- VII. (1) 200 barrels daily (average).
- (2) Open system.
- (3) Gravity to 50#.
- (4) Produced Delaware formation water.
- (5) Re-injection of formation water into productive zone.

- VIII. (1) Lithologic detail: Fine grain silt sandstone with 20% porosity and low permeability.
- (2) Name: Delaware sand
- (3) Thickness: 60
- (4) Depth: 4850' to 4910'.
- (5) No known fresh water in the area.

- IV. (1) No stimulation required.

- X. (1) Well logs attached. Production test recovered salt water with show of oil and gas.

- XI. (1) No producing water wells in area.

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

Jubilee Energy Corporation

Exxon "A" Federal No. 1

1. Type: Oil-pumping
2. Construction: Typical oil
3. Date Drilled: 12-15-82
4. Location: Unit F, 1980' FNL & 1980' FWL in Section 27, T-24-S, R-32-E, Lea County, New Mexico
5. Depth: 4905'
6. Completion Record: 5 1/2" casing set @ 4905' w/150 sx. of 50-50 poz. Perforated from 4845' to 4847' Delaware; Acidize with 2000 gallons; Fraced with 32,000 gallons + 34,500# sand.
7. Plug Detail: None

Exxon "A" Federal No. 3

1. Type: Oil-pumping
2. Construction: Typical oil
3. Date Drilled: 11-20-83
4. Location: Unit C, 660' FNL & 1980' FWL in Section 27, T-24-S, R-32-E, Lea County, New Mexico
5. Depth: 4883'
6. Completion Record: 5 1/2" casing set @ 4883' with 150 sx. 50-50 poz. Perforated from 4862' to 4874' Delaware; Acidize with 1000 gallons; Fraced with 20,000 gallons + 20,000# sand.
7. Plug Detail: None

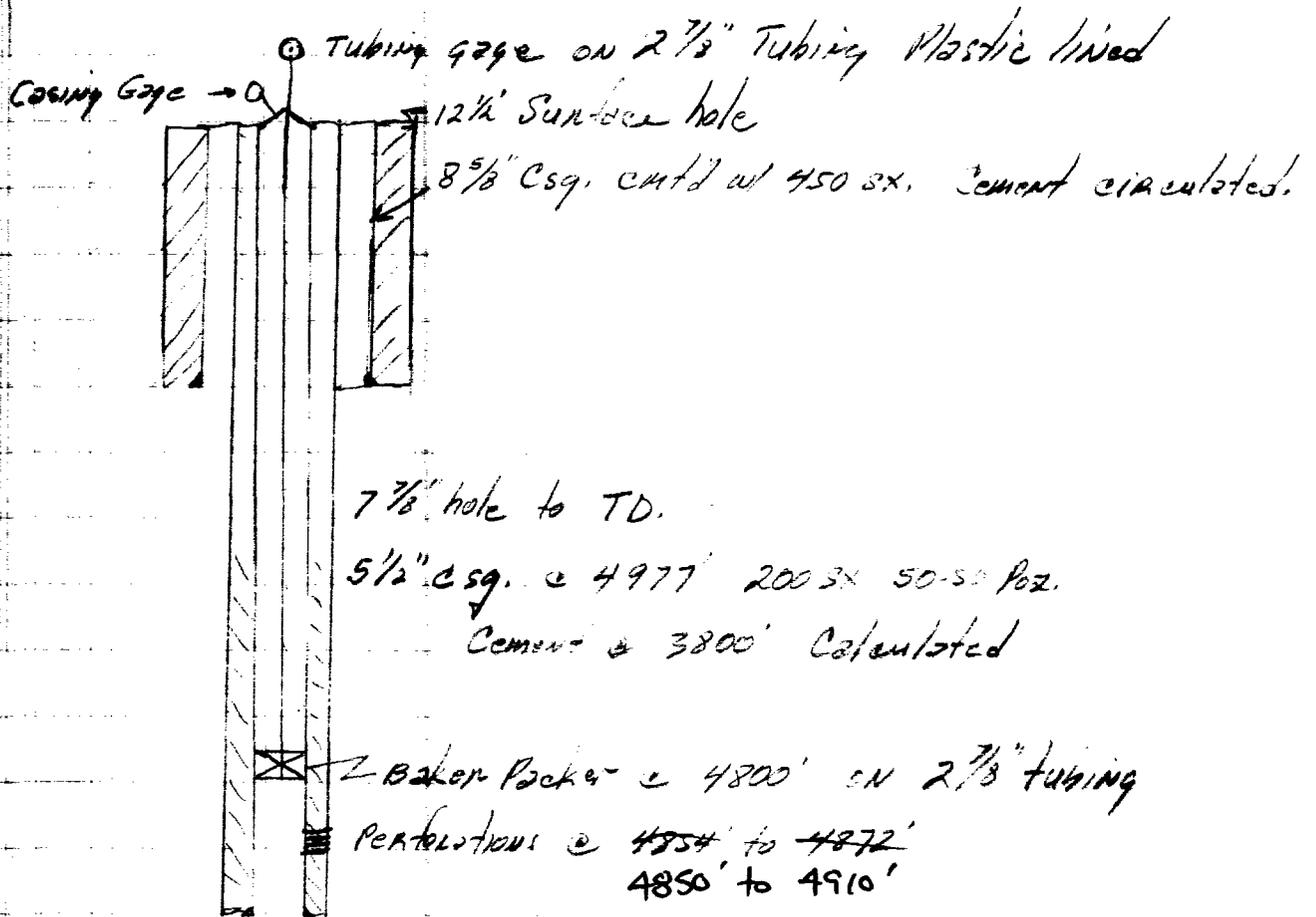
Exxon "A" Federal No. 4

1. Type: Oil-pumping
2. Construction: Typical oil
3. Date Drilled: 5-2-84
4. Location: Unit N, 990' FSL & 1980' FWL of Section 27, T-24-S, R-32-E, Lea County, New Mexico
5. Depth: 4862'
6. Completion Record: 5 1/2" casing set @ 4862' w/200 sx. of 50-50 poz. Perforated from 4835' to 4855'; Acidized w/2000 gallons. Fraced w/20,000 gallons + 20,000# sand.
7. Plug Detail: None

R. E. Williamson Wright Federal No. 2

1. Type: Oil-pumping
2. Construction: Typical oil
3. Date Drilled: 7-17-79
4. Location: Unit G, 1980' FNL and 1980' FEL of Section 27, T-24-S, R-32-E,  
Lea County, New Mexico
5. Depth: 4885'
6. Completion Record: 4½" casing set @ 4885' w/200 sx. Class "C".  
Perforated from 4866' to 4871'; Fraced w/20,000  
Gallons + 30,000# sand.
7. Plug Detail: None

# EXXON "A" No. 2 Well



Tubing gage on 2 7/8" Tubing Plastic lined

Casing Gage → 0

12 1/2" Surface hole

8 5/8" Csg. cmt'd at 450' sx. Cement circulated.

2 7/8" hole to TD.

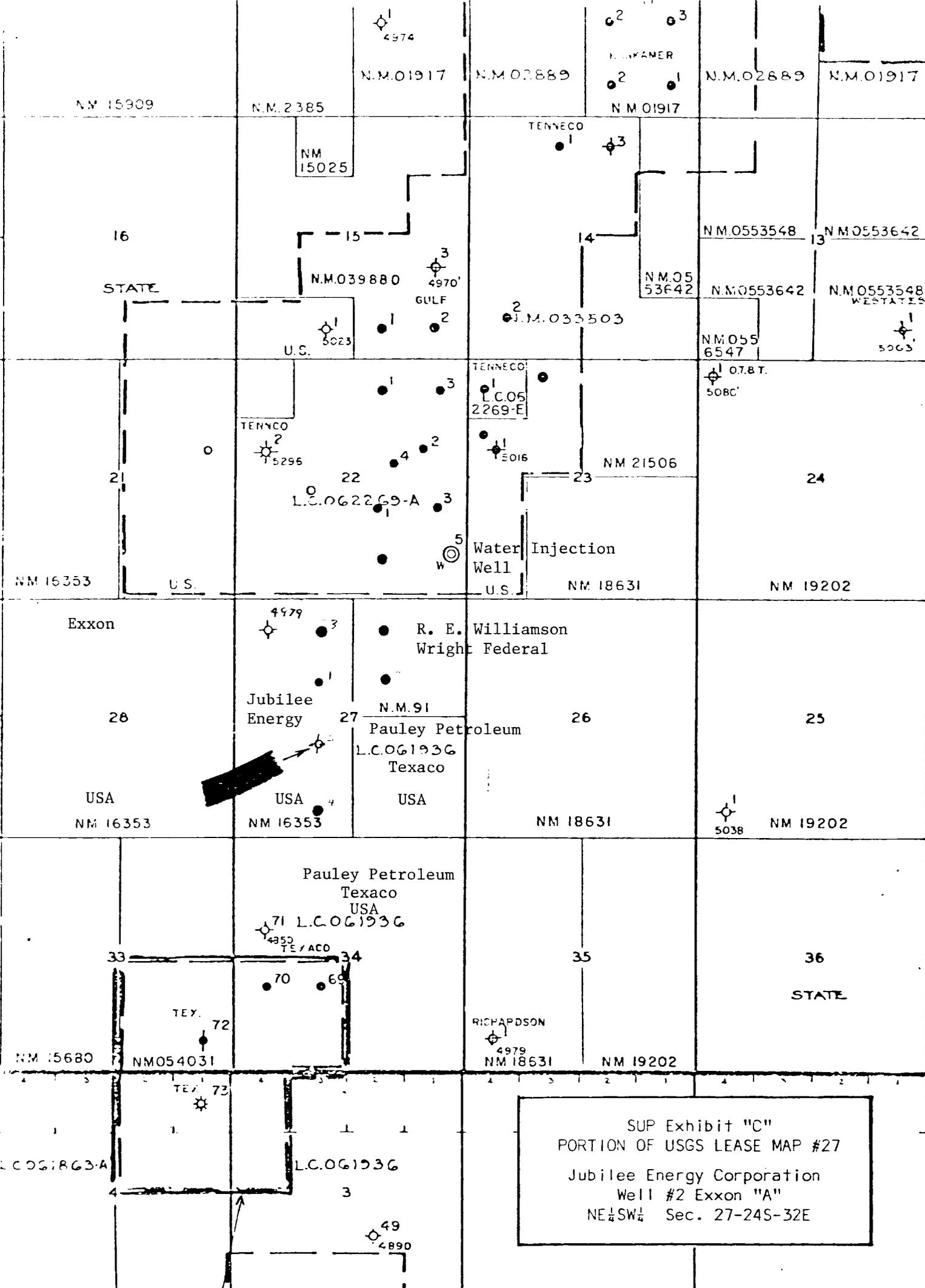
5 1/2" csg. @ 4977' 200' 3x 50-50 Poz.

Cement @ 3800' Calculated

2 Baker Packer @ 4800' on 2 7/8" tubing

Perforations @ 4854' to 4872'  
4850' to 4910'

TD: 4977'



SUP Exhibit "C"  
 PORTION OF USGS LEASE MAP #27  
 Jubilee Energy Corporation  
 Well #2 Exxon "A"  
 NE 1/4 SW 1/4 Sec. 27-24S-32E