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RECOGNIZED SPECIALIST IN THE AREA OF
NATURAL RESOURCES-OIL AND GAS LAW

JASON KELLAHIN (RETIRED 1991)

August 11, 1997

Mr. William J. LeMay, Director
Oil Conservation Division
2040 South Pacheco
Santa Fe, New Mexico 87505

HAND DELIVERED

**Re: NMOCD Case 11807
First Amended Application of Stevens & Tull, Inc.
for approval of the BF State Well No. 4
for Salt Water Disposal, Lea County, New Mexico.**

RECEIVED

AUG 11 1997

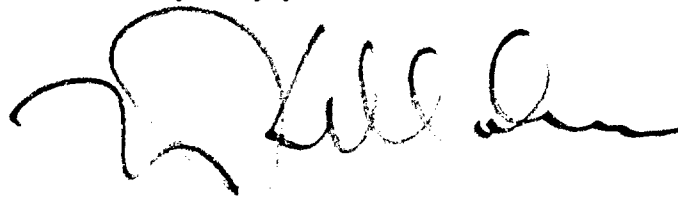
OIL CONSERVATION DIVISION

Dear Mr. LeMay:

On behalf of Stevens & Tull, Inc., we previously docketed for hearing a request for approval of its BF State Well No. 1 (Unit G) of Section 16, T20S, R33E as a salt water disposal well.

Stevens & Tull, Inc. now desire to amend this request to substitute a different well as its proposed salt water disposal well. The enclosed Division Form C-108 is a revised filing seeking approval of its BF State Well No 4 located in Unit A of said Section 16. I have also enclosed a revised advertisement which we request be placed on the September 4, 1997 docket for hearing.

Very truly yours,



W. Thomas Kellahin

cc: Stevens & Tull, Inc.
Attn: Jerry Weant

PROPOSED ADVERTISEMENT

Case No. 11807: Application of Stevens & Tull, Inc. for salt water disposal, Lea County, New Mexico. Applicant seeks authority to dispose of produced water produced from the Yates-Seven Rivers formation back into the Yates-Seven Rivers formation of the West Teas Yates-Seven Rivers Pool in the interval from 2989 feet to 3212 feet in its State "BF" Well No. 4 located 330 feet from the north line and 330 feet from the east line (Unit A) Section 16, Township 20 South, Range 33 East, NMPM. In addition, applicant seeks approval of a surface injection pressure of 1,000 psi and an administrative procedure for obtaining further increases in said limitation. Said well is located approximately 3-1/2 miles northeast from the intersection of US. Highway 180 and New Mexico Highway 176, New Mexico.

APPROVED

MAY 11 1997

BY COMMISSIONER OF LANDS

AUG 11 1997

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: Secondary Recovery Pressure Maintenance XX Disposal Storage
Application qualifies for administrative approval? Yes X No
- II. OPERATOR: STEVENS & TULL, INC.
ADDRESS: P.O. Box 11005, MIDLAND, TEXAS 79702
CONTACT PARTY: Michael G. Mooney PHONE: 915/699-1410
- III. WELL DATA: Complete the data required on the reverse side of this form for each well processed for injection. Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project: X Yes No
If yes, give the Division order number authorizing the project SWD-631
- 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 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 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 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: Jerry A. Weant TITLE: Landman
SIGNATURE: [Signature] DATE: 8/4/97
- * 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 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, PO Box 2088, Santa Fe, NM 87504-2088 within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

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.

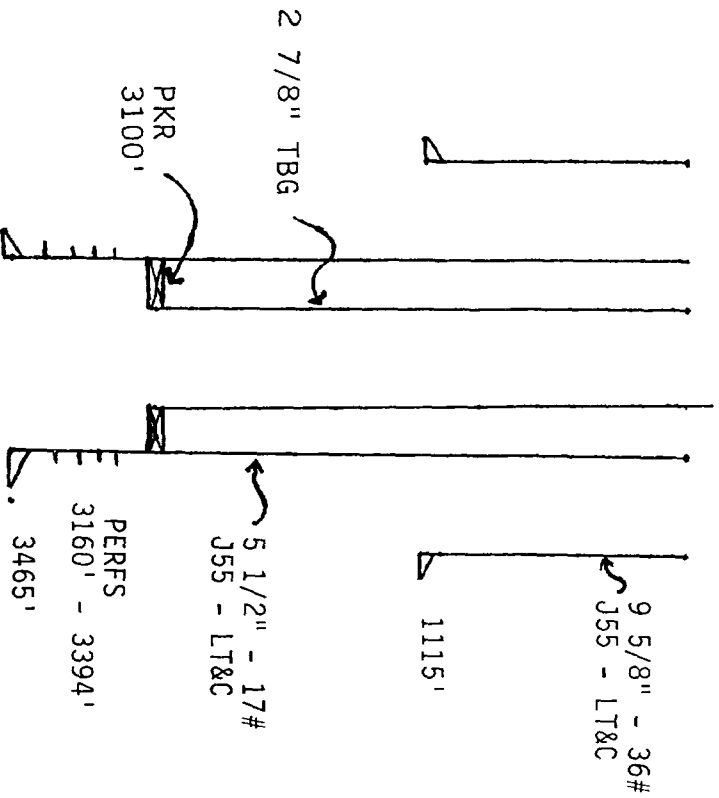
INJECTION WELL DATA SHEET

Side

OPERATOR STEVENS & TULL, INC. LEASE BF STATE

WELL NO. 4 330' FN & EL FOOTAGE LOCATION SECTION 16 TOWNSHIP 20-S RANGE 33-E

Schematic



Well Construction Data

Surface Casing
 Size 9 5/8 Cemented with 440 sx.
 TOC Surface feet determined by Circulated
 Hole Size 12 1/4"

Intermediate Casing
 Size 5 1/2 Cemented with 635 sx.
 TOC Surface feet determined by Circulated
 Hole Size 8 3/4"

Long String
 Size 5 1/2 Cemented with 635 sx.
 TOC Surface feet determined by Circulated

Hole Size 8 3/4"

Total Depth 3465'

Injection Interval

3160 feet to 3394 feet
 (perforated or open-hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size 2 7/8" lined with NONE set in a
BAKER AD-1 packer at 3100 (type of internal coating) feet

Other type of tubing / casing seal if applicable _____

Other Data

1. Is this a new well drilled for injection? Yes ☒ No ☐

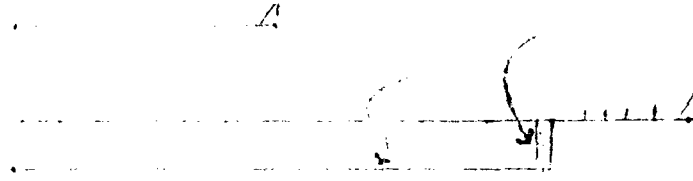
If no, for what purpose was the well originally drilled? OIL WELL

2. Name of the Injection formation YATES - SEVEN RIVERS

3. Name of Field or Pool (if applicable) WEST TEAS Y - SR

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. NONE

5. Give the names and depths of any over or underlying oil or gas zones (pools) in this area.
NONE



-  STEVENS & TULL, INC. STATE LEASE NO'S E-3441 and V-4021; USA LEASE NO'S NM-94851& NM-89889
-  CONOCO INC.'S STATE V-4022
-  SHACKLEFORD OIL COMPANY'S STATE E-3441
-  RELIANCE OIL COMPANY'S NM-51844
-  PHILLIPS PETROLEUM COMPANY'S NM-13280
-  FINA OIL & CHEMICAL'S NM-13279

