

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL
RESOURCES DEPARTMENT

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

AUG 14 2003

FORM C-108
Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT
OIL CONSERVATION DIVISION

- I. PURPOSE: Secondary Recovery ☒ Pressure Maintenance ☐ Disposal ☐ Storage
Application qualifies for administrative approval? ☒ Yes ☐ No
- II. OPERATOR: Southwest Royalties, Inc.
ADDRESS: P.O. Box 11390 Midland, Tx 79702
CONTACT PARTY: C.M. Bloodworth, P.E. PHONE: 432-636-9927
- 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: R-3229 & R-3033
- 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: C.M. Bloodworth, P.E. TITLE: Area Supervisor
SIGNATURE: [Signature] DATE: 08/08/03
E-MAIL ADDRESS: MBloodworth@SWRINK.COM
- * 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

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 the 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, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, 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.

Water Injection Project Expansion
Flying "M" San Andres Unit Well No.'s 1A-7 & 27-1
Sec 28 & 29, T9S, R33E
Lea county, New Mexico

Notification List

Surface Owner

Delbert Brown, et ux Verla Brown
6A NM Rd. 467
Portales, NM 88130

Offsets :

Operator

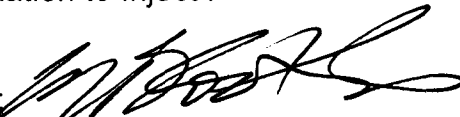
Southwest Royalties, Inc.

Unleased Minerals

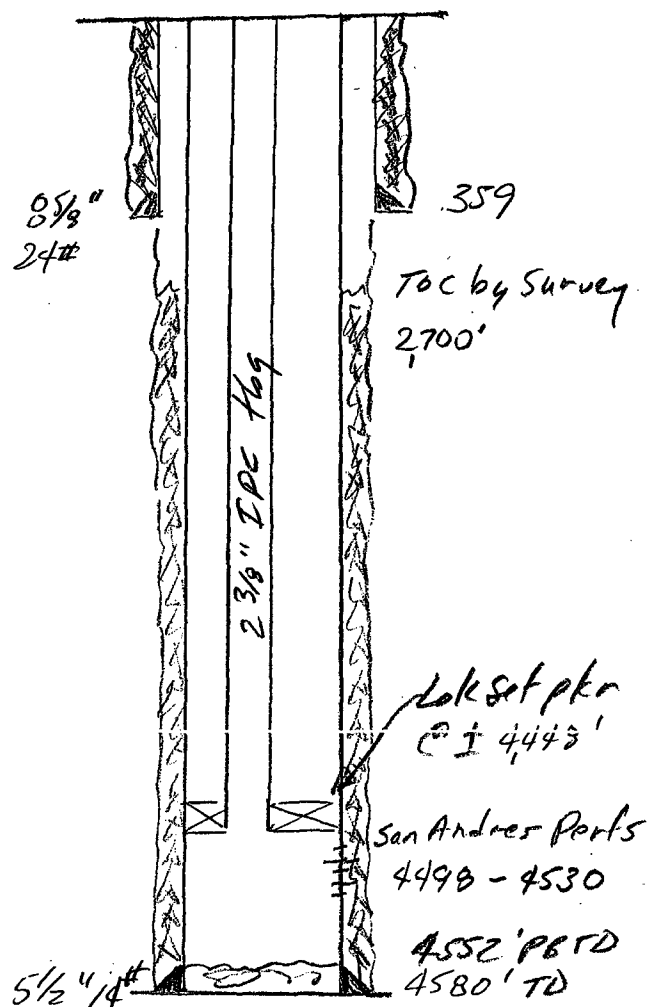
W/2 NW/4 Sec 27, T9S, R33E
Lea County, New Mexico

Owner:
United States of America
c/o Bureau of Land Management
P.O. Box 27115
Santa Fe, New Mexico 87502-0115

The above were provided a full copy of the Application For
Authorization to Inject .

Signed:  08/08/03
C. M. Bloodworth, P.E.
Area Supervisor

INJECTION WELL DATA SHEET

OPERATOR: Southwest Royalties, Inc. 30-025-22034WELL NAME & NUMBER: Flying "M" SA Unit Tract 27 Well No 1WELL LOCATION: 2120' FE & SL J 28 9S 33E
'FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGEWELLBORE SCHEMATICWELL CONSTRUCTION DATASurface Casing

Hole Size: 12 1/4 Casing Size: 8 5/8" 24#
 Cemented with: 225 sx. or ft³
 Top of Cement: surface Method Determined: circulated

Intermediate Casing

Hole Size: NA Casing Size: NA
 Cemented with: NA sx. or NA ft³
 Top of Cement: NA Method Determined: NA

Production Casing

Hole Size: 7 7/8" Casing Size: 5 1/2" 14#
 Cemented with: 350 sx. or ft³
 Top of Cement: 2700 Method Determined: Temperature Survey
 Total Depth: 4580'

Injection Interval

4498 feet to 4530

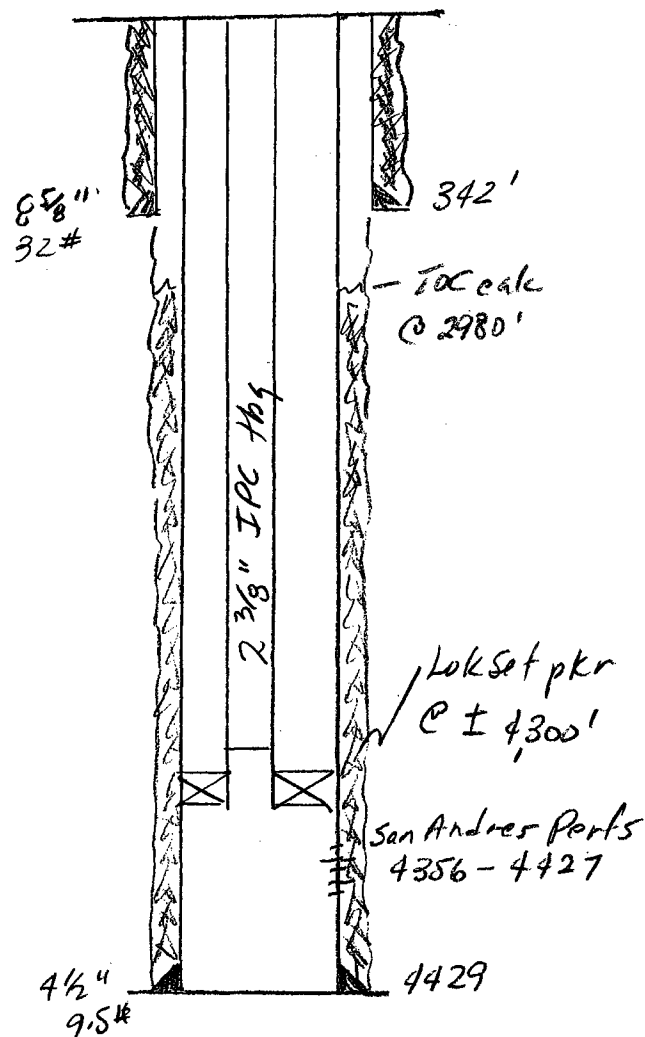
(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

OPERATOR: Southwest Royalties, Inc. 30-025-24756

WELL NAME & NUMBER: Flying "M" SA Unit Tract 1A Well No 7

WELL LOCATION: 659' FSL & 1991' FEL 0 29 9S 33E
FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE

WELLBORE SCHEMATICWELL CONSTRUCTION DATASurface Casing

Hole Size: 12 1/4 Casing Size: 8 5/8"
Cemented with: 300 sx. or _____ ft³
Top of Cement: Surface Method Determined: Calculated

Intermediate Casing

Hole Size: NA Casing Size: NA
Cemented with: NA sx. or NA ft³
Top of Cement: NA Method Determined: NA

Production Casing

Hole Size: 7 7/8" Casing Size: 4 1/2"
Cemented with: 250 sx. or _____ ft³
Top of Cement: 2980' Method Determined: Calculated
Total Depth: 4429

Injection Interval

4356 feet to 4427'

(Perforated or Open Hole; indicate which)

