

Case 9056

APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose: ☐ Secondary Recovery ☐ Pressure Maintenance ☒ Disposal ☐ Storage  
Application qualifies for administrative approval? ☐ yes ☐ no
- II. Operator: Citation Oil & Gas Corp.  
Address: 16800 Greenspoint Park Dr., S. Atrium, Ste 300, Houston, TX 77060  
Contact party: Leonard Barker Phone: 713/874-9877
- 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. Attached
- 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. Attached
- \* 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. Attached
- VII. Attach data on the proposed operation, including: Attached
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 source known to be immediately underlying the injection interval. Attached
- IX. Describe the proposed stimulation program, if any. Attached
- \* X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.) Attached
- \* 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. Attached
- 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. Attached
- 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: Leonard Barker Title: \_\_\_\_\_
- Signature: [Signature] Date: 11/14/86
- \* 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.

Response to Paragraphs VII - XII

Oil Conservation Division Form C-108

VII. Data on Proposed Operation:

1. a. Average daily rate of fluid injection - 250 BWPD  
b. Maximum daily rate of fluid injection - 400 BWPD
2. System will be closed system.
3. a. Propose average injection pressure - 200 psi  
b. Proposed maximum injection pressure - 500 psi
4. Sources of saltwater to be injected:
  - a. Citation Oil & Gas State Com "B" #1 analysis of water attached.
  - b. Citation Oil & Gas State Com "B" #2
  - c. Citation Oil & Gas State #2 saltwater analysis attached.
5. Chemical analysis of disposal zone formation water is attached.

VIII. Injection Zone Data:

- A. Lithology = Sandstone
- B. Geological Name = Yates Sand
- C. Thickness = 89 feet
- D. Depth = 2636'
- E. Underground drinking water source:
  1. Geologic name = Oglala
  2. Depth to bottom = +400'
  3. There are no known drinking water sources underlying the injection zone.

IX. No stimulation program is anticipated.

X. Attached.

XI. There are no fresh water wells known to be within 1 mile of the proposed disposal well.

XII. An examination of available geologic and engineering data reveals no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water within the well bore, underground fresh water sands are isolated from the proposed injection zone casing and cement.

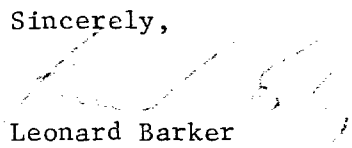
PROOF OF NOTICE

Notice of the filing of this application was provided to the Landowner and leasehold operators within  $\frac{1}{2}$  mile of the proposed disposal well by mailing to each by certified mail a copy of this application as indicated below:

Land Owner:	<u>Date Mailed</u>
State of New Mexico Commissioner of Public Lands P.O. Box 1148 Santa Fe, New Mexico 87504-1148	11/14/86
Leasehold Operators within $\frac{1}{2}$ mile:	
Burleson & Huff Box 2479 Midland, Texas 79702	11/14/86
Lewis B. Burleson, Inc. P.O. Box 2479 Midland, Texas 79702	11/14/86
Exxon Corporation P.O. Box 1600 Midland, Texas 79702	11/14/86
Convest Energy Corp. 2401 Fountainview, Ste 700 Houston, Texas 77057	11/14/86
Doyle Hartman, Inc. P.O. Box 10426 Midland, Texas 79702	11/14/86
Millard Deck Estate %First National Bank of Ft. Worth P.O. Box 2546 Ft. Worth, Texas 76113	11/14/86
District Office:	
District I Oil Conservation Division P.O. Box 1980 Hobbs, New Mexico 88240	11/14/86

I certify that notice of this application were mailed to the above listed entities by certified mail.

Sincerely,

  
Leonard Barker



November 14, 1986

*Case 9056*

Oil Conservation Division  
State of New Mexico Energy & Minerals Dept.  
P.O. Box 2088  
State Land Office Building  
Santa Fe, New Mexico 87501

Re: Citation Oil & Gas  
State Y 1  
D, S36, T24S, R36E, Lea County, New Mexico

Gentlemen:


The captioned well was drilled in 1953 to a total depth of 2942 feet. Until May 1985 the well produced from open hole 2636 to 2844 in the Yates formation. Production of hydrocarbons has declined to below the economic limit of the well, and the well has been temporarily abandoned since May 1985.

With your concurrence, Citation Oil & Gas would convert the well to salt water disposal service, disposing of formation water produced by other Citation wells in the area into the open hole portion of the well. Toward this end please find enclosed a completed Oil Conservation Division Form c-108 with required attachments.

It is our understanding that the earliest date this application could be presented before a hearing would be December 17, 1986. Favorable consideration of this application would have a significant positive impact on the economics of Citation Oil & Gas operations in the area. We therefore respectfully request that this application be considered at the hearing scheduled for December 17, 1986.

Should more information be required please call. Thank you for your prompt handling of this application.

Yours Truly,

  
Leonard Barker

LB/dv

Attachments

KELLAHIN and KELLAHIN

*Attorneys at Law*

El Patio - 117 North Guadalupe

Post Office Box 2265

Santa Fe, New Mexico 87504-2265

Telephone 982-4285

Area Code 505

W. Thomas Kellahin

Karen Aubrey

Jason Kellahin

Of Counsel

November 18, 1986

Mr. Richard L. Stamets  
Oil Conservation Division  
P. O. Box 2088  
Santa Fe, New Mexico 87504

Case 9056  
"Hand Delivered"  
RECEIVED

Re: Application by Citation Oil & Gas  
Corporation for Approval of  
Salt Water Disposal

NOV 19 1986

OIL CONSERVATION DIVISION

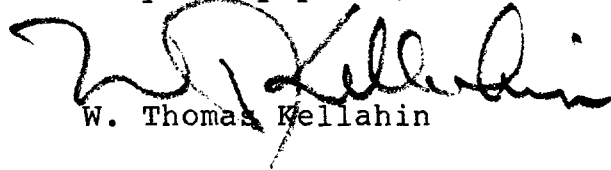
Dear Mr. Stamets:

On behalf of Lewis B. Burleson, Inc., an offset owner and affected party, please accept this letter as our objection to an application by Citation Oil & Gas Corporation for the administrative approval of a salt water disposal well described as follows:

State Y #1 Well  
T24S, R36E  
Section 36: Unit D  
Lea County, New Mexico

Please advise me when this matter will be set for hearing before the Division.

Very truly yours,

  
W. Thomas Kellahin

WTK:ca

cc: Lewis Burleson  
P. O. Box 2479  
Midland, Texas 79701

Citation Oil & Gas Corp.  
16800 Greenpoint Park Drive  
Houston, Texas 77060