

OIL CONSERVATION DIVISION  
RECEIVED

ROBERT L. BAYLESS

P. O. BOX 168

FARMINGTON, NM 87499

FAX NO  
(505) 326-6911

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OFFICE NO  
(505) 326-2659

September 11, 1992

Ms. Diana Fairhurst  
Oil Conservation Division  
1000 Rio Brazos  
Aztec NM 87410

Mr. David Catanach  
Oil Conservation Division  
310 Old Santa Fe Trail, Room 206  
Santa Fe, NM 87504

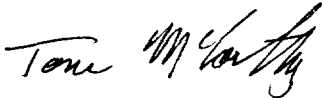
Re: Expansion of Waterflood  
Miguel Creek Field  
McKinley County, New Mexico

Pursuant to Benjamin E. Stone's letter dated September 9, 1992, attached is a signed copy of form C-108 for the referenced project.

Also attached is a copy of a map conforming to Item V of Form C-108. This map was furnished with the original application, and was believed to be adequate based on conversations with the OCD in Aztec.

Please advise if I can be of further assistance.

Sincerely,




Tom R. McCarthy  
Petroleum Engineer

TRM/tls

attach.

**APPLICATION FOR AUTHORIZATION TO INJECT**

- I. PURPOSE: ☒ Secondary Recovery ☐ Pressure Maintenance ☐ Disposal ☐ Storage  
Application qualifies for administrative approval? ☒ Yes ☐ No
- II. OPERATOR: R.L. Bayless  
ADDRESS: P.O. Box 168, Farmington, NM 87499  
CONTACT PARTY: Tom McCarthy PHONE: (505)326-2659
- 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: ☒ Yes ☐ No  
If yes, give the Division order number authorizing the project R-4875
- 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: Tom McCarthy TITLE: Petroleum Engineer  
SIGNATURE:  DATE: 9-3-92
- \* 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. \_\_\_\_\_



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Gardener I-17 Sutton S. F.

DAVIDSON

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DAVIDSON

DAVIDSON

R.L. BAYLESS  
MIGUEL CREEK FIELD

SCALE: 1" = 1000'

△ PROPOSED INJECTOR

● PRODUCER

◆ INJECTOR

/// BAYLESS LEASE LINE

20

ROYAL BANK

AREA OF REVIEW

21

ROYAL BANK

Capital I Fernandez

ROYAL BANK

ROYAL BANK

DAVIDSON

29

DAVIDSON

Shaw I-A SFPRR

Capital I S. F. St  
(I. L. Davidson)

Gardener I Sutton S. F.

N. Min. 2 State

28

Capital I Lisa Lynn

MMM Prod I Block

N. Min. 9 SFPRR