

30-015-23379

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL
RESOURCES DEPARTMENT

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

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MAR - 8 2004

FORM C-108

Revised June 10, 2003

OCD-ARTESIA

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage
Application qualifies for administrative approval? X Yes No
- II. OPERATOR: MARBOB ENERGY CORPORATION
ADDRESS: P O BOX 227, ARTESIA, NM 88211-0227
CONTACT PARTY: Brian Collins PHONE: 505-748-3303
- 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 X 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 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: Brian Collins TITLE: Engineer
SIGNATURE:  DATE: 03/02/04
E-MAIL ADDRESS: engineering@marbob.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

Application for Authorization to Inject
Federal 33-1 SWD
Unit I, Section 33-T20S-R26E

- V. Map is attached.
- VI. One well within the 1/2 mile radius area of review penetrates the proposed injection zone. Wellbore schematic is attached.
- VII. 1. Proposed average daily rate = 5000 BWPD
Proposed maximum daily rate = 20,000 BWPD
2. Proposed maximum injection pressure = 1682 psi (0.2 psi/ft)
3. System is closed
4. Source of injection fluid will be Upper Penn produced water. Water analysis is attached
5. Upper Penn produced water will be injected into the lower portion of the Upper Penn. There will be no compatibility problems.
- VIII. The injection zone is the Upper Penn from 8410' to 8714' and is composed of dolomite. Underground sources of drinking water will be shallower than 350 feet deep.
- IX. The proposed injection zone will be acidized with 25,000 gallons 20% HCL acid
- X. Logs are filed with the Division. A section of the neutron-density log is attached.
- XI. There are no fresh water wells within 1 mile of the proposed SWD well.
- XII. After examining available geologic and engineering data, there is no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Proof of Notice is attached.

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