

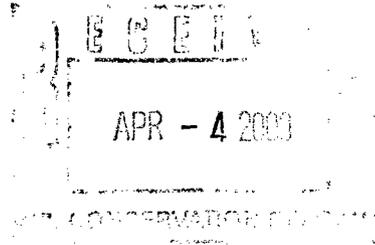
SWD 4/19/00  
769



**marbob**  
energy corporation

March 31, 2000

New Mexico Energy, Minerals &  
Natural Resources Department  
Oil Conservation Division  
2040 South Pacheco Street  
Santa Fe, New Mexico 87505



Attn: Ben Stone  
NMOCD Engineering Bureau

Dear Mr. Stone:

Please find the enclosed Application for Authorization to Inject regarding Marbob Energy Corporation's Bobby Fee No. 1 proposed saltwater disposal is located at 2252' FSL and 990' FWL in Section 25 of Township 9 South, Range 36 East in Lea County, New Mexico.

Application is made pursuant to Rule 701C of the Division Rules and Regulations for Administrative Approval for Disposal. Proposed injection formation is the Devonian at 12,288' (open hole). The waters to be disposed of will consist of produced waters from the Devonian formations.

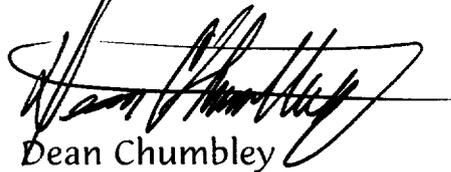
Publication of Marbob Energy Corporation's intent to utilize the proposed well for disposal purposes has been made in the Lovington Daily Leader, and a copy of this Application has been mailed via certified mail to the effected landowners and leasehold operators. All future proof of notification will be forwarded to your office upon receipt.

Thank you for your assistance with this matter. Please do not hesitate to contact me should you have any questions or require any additional information. Any assistance you or your staff could provide to expedite this

application would be greatly appreciated.

Marbob Energy Corporation respectfully requests your approval of the before mentioned Application at the expiration of the fifteen day waiting period.

Sincerely,

A handwritten signature in black ink, appearing to read "Dean Chumbley", written over a horizontal line.

Dean Chumbley  
Land Department

DC/mm  
Enclosures

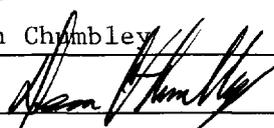
**BEFORE THE NEW MEXICO OIL CONSERVATION DIVISION  
FOR ADMINISTRATIVE APPROVAL OF  
MARBOB ENERGY CORPORATION  
APPLICATION FOR AUTHORIZATION TO INJECT**

**BOBBY FEE No. 1**

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Geologic Affirmative Statement  
Injection Zone Water Analysis (Exhibit One)  
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Proof of Notice

**APPLICATION FOR AUTHORIZATION TO INJECT**

- I. PURPOSE: Secondary Recovery Pressure Maintenance  Disposal Storage  
Application qualifies for administrative approval?  Yes  No
- II. OPERATOR: Marbob Energy Corporation  
ADDRESS: Post Office Box 227, Artesia, NM 88211-0227  
CONTACT PARTY: Dean Chumbley 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  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: Dean Chumbley TITLE: Land Department  
SIGNATURE:  DATE: 4-3-2000
- \* 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: \_\_\_\_\_

### 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, 2040 South Pacheco, Santa Fe, New Mexico 87505, 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.

INJECTION WELL DATA SHEET

OPERATOR: Marbob Energy Corporation

WELL NAME & NUMBER: Bobby Fee No. 1 (30-025-34765)

WELL LOCATION: 2252' FSL and 990' FWL  
FOOTAGE LOCATION

25 SECTION 9S TOWNSHIP 36E RANGE  
UNIT LETTER

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA  
Surface Casing

Hole Size: 17 1/2" Casing Size: 13 3/8"  
Cemented with: 475 sx. or          ft<sup>3</sup>

Top of Cement: surface Method Determined: circulated  
Intermediate Casing

(See Attachments)

Hole Size: 12 1/4" Casing Size: 8 5/8"  
Cemented with: 1465 sx. or          ft<sup>3</sup>

Top of Cement: surface Method Determined: circulated  
Production Casing

Hole Size: 7 7/8" Casing Size: 5 1/2"  
Cemented with: 250 sx. or          ft<sup>3</sup>

Top of Cement: 10,750 Method Determined: Temp Survey  
Total Depth: 12,288

Injection Interval  
Open Hole @ 12,288' feet to         

(Perforated or Open Hole; indicate which)

**INJECTION WELL DATA SHEET**

Tubing Size: 2 7/8" Lining Material: Plastic Coated

Type of Packer: Halliburton RTTS

Packer Setting Depth: 12,250

Other Type of Tubing/Casing Seal (if applicable): \_\_\_\_\_

Additional Data

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

If no, for what purpose was the well originally drilled? \_\_\_\_\_

Devonian Test

2. Name of the Injection Formation: Devonian

3. Name of Field or Pool (if applicable): Crossroads

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. Perforated

Atoka zone at 11,531' - 11,537' and 11,542' - 11,548'. Non productive, squeezed with 50 sxs.

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: \_\_\_\_\_

San Andres 5000' - 5100'

\_\_\_\_\_

# Marbob Energy Corp.

Bobby Fee 1

API 30-025-34765

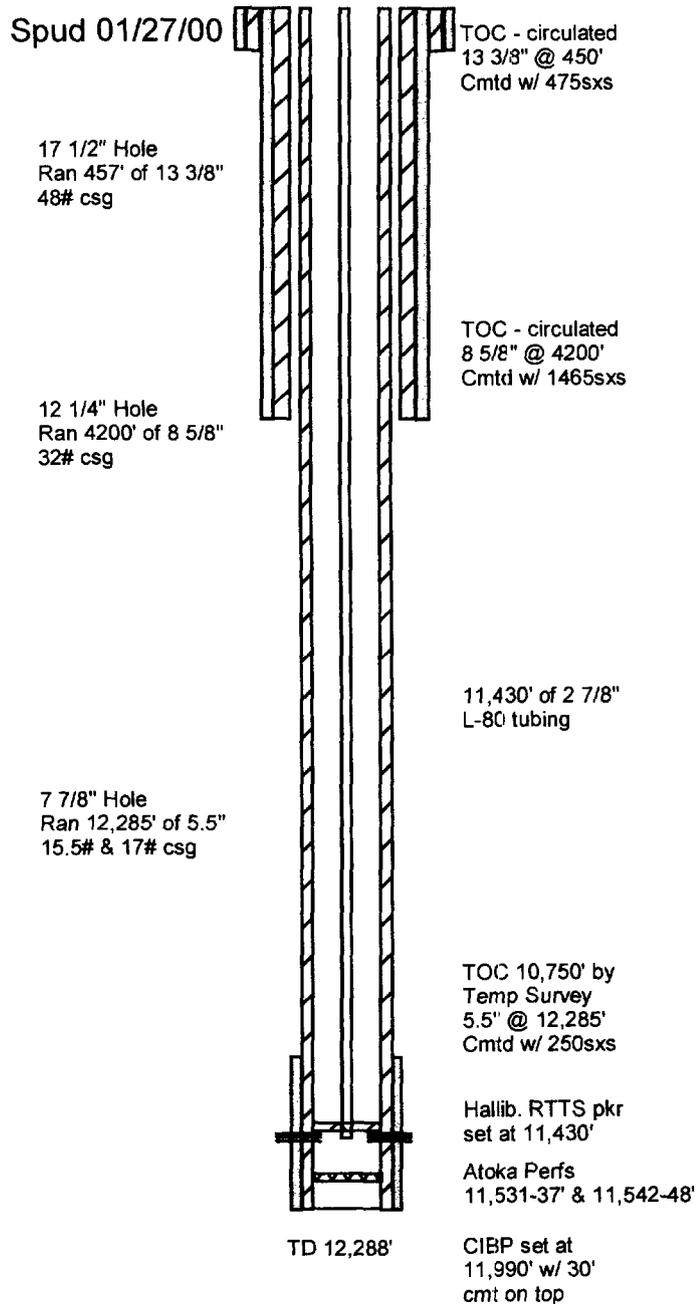
2252'FSL 990'FWL

Sec 25 - 9S - 36E

Lea Co., NM

GL 4011'

## Bobby "Pre-SWD" Schematic



# Marbob Energy Corp.

Bobby Fee 1

API 30-025-34765

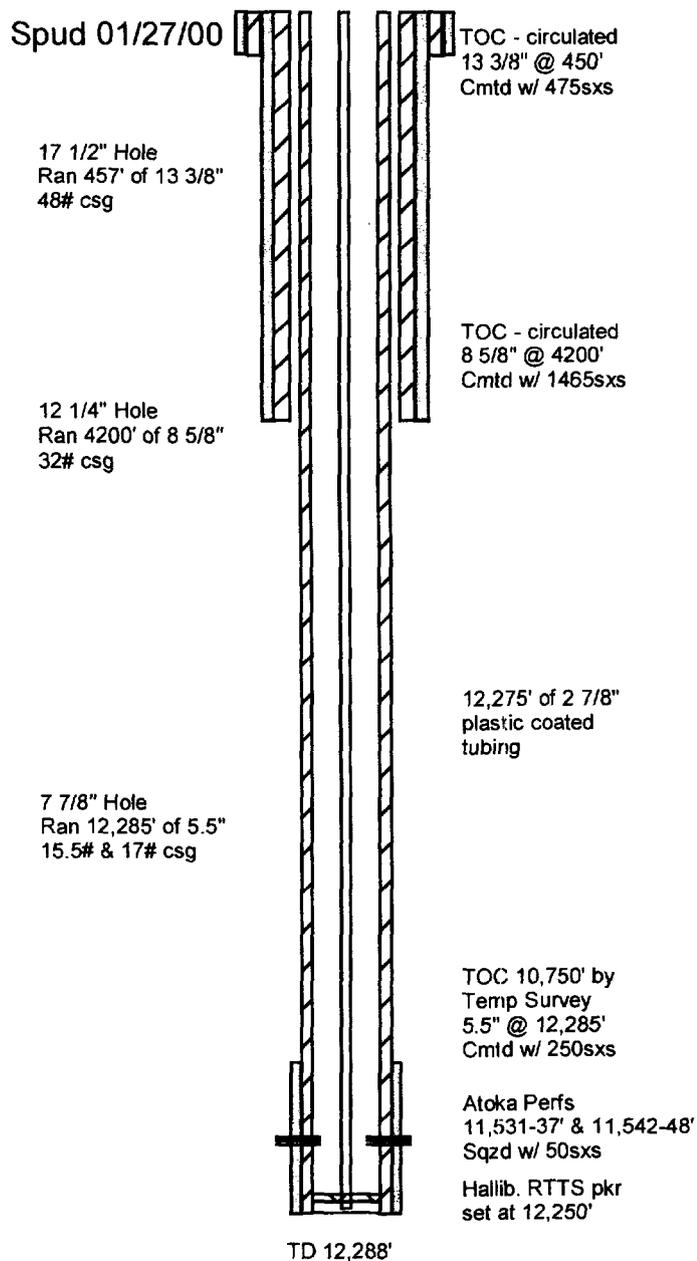
2252'FSL 990'FWL

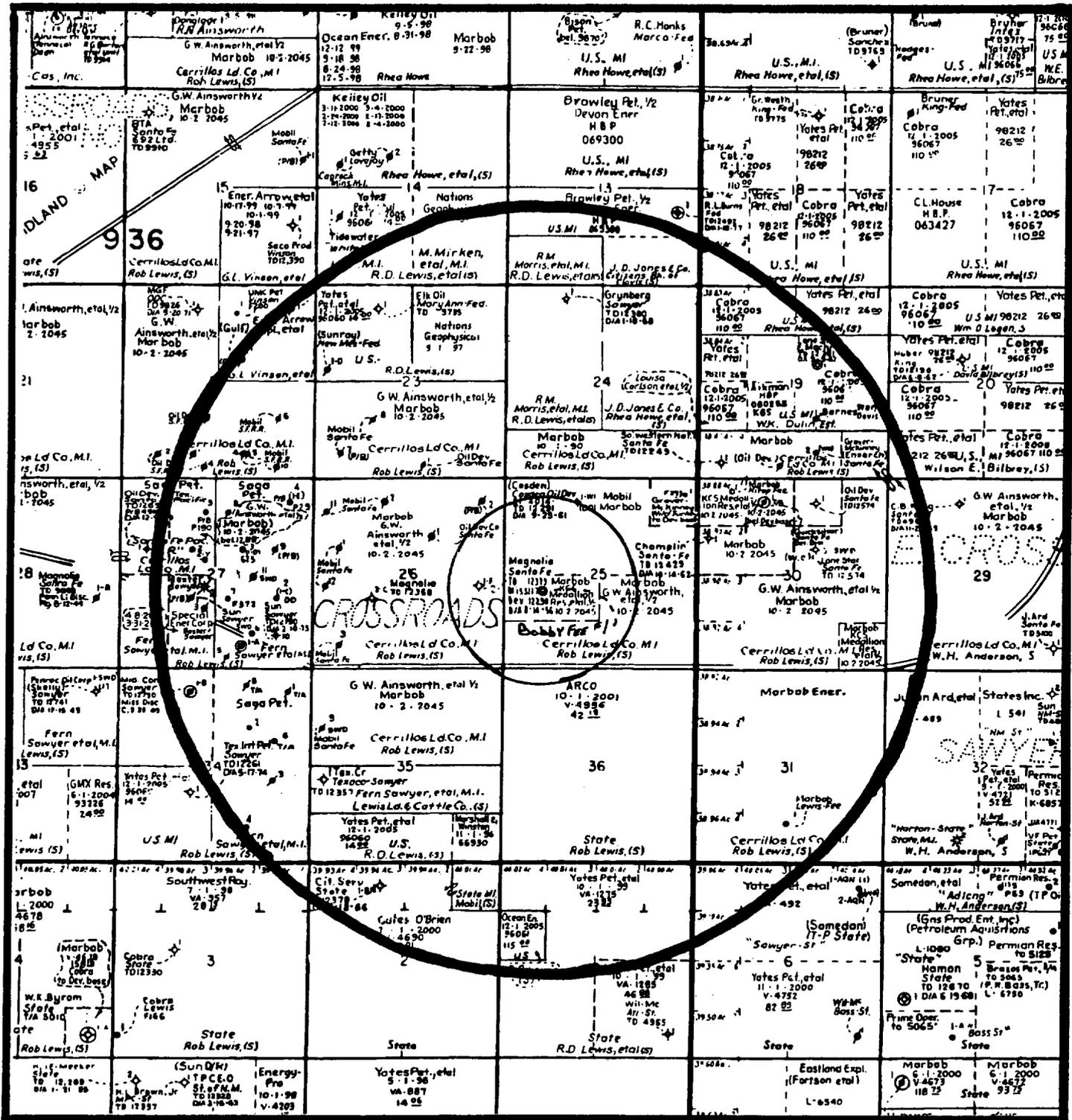
Sec 25 - 9S - 36E

Lea Co., NM

GL 4011'

## Bobby SWD Schematic





Map identifying leases and well within two miles of Marbob Energys Bobby Fee No. 1 located at 2252'FSL & 990'FWL in 25-T9s-R36e

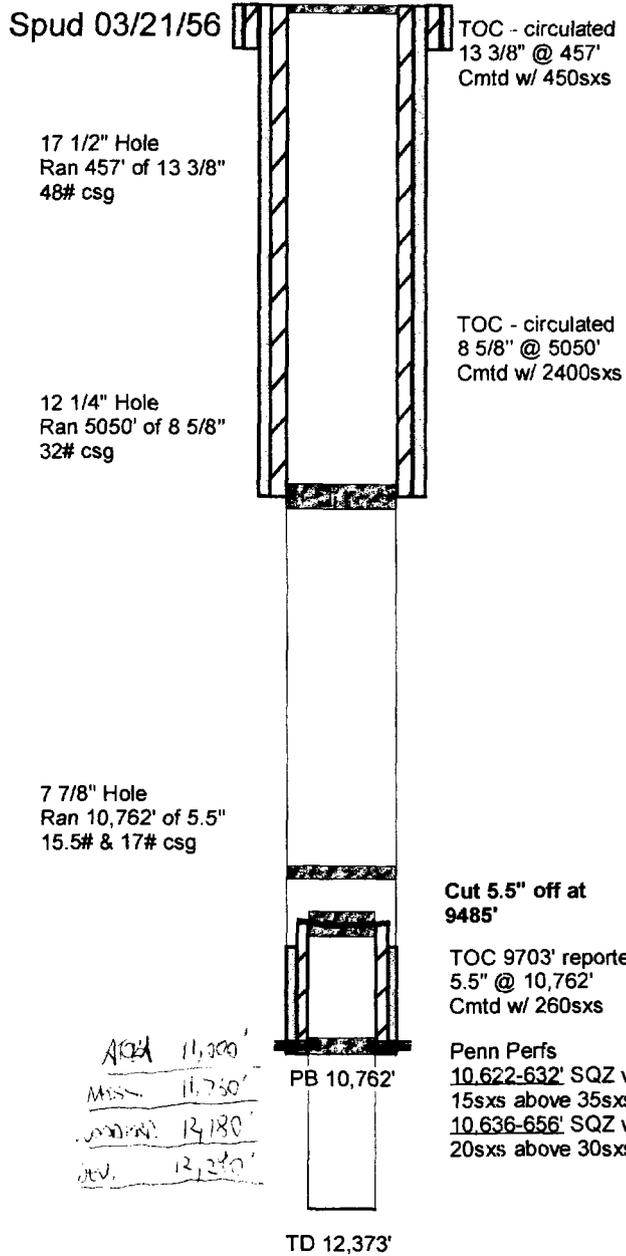
Map identifying the one-half mile area of review for the Bobby Fee No. 1

TABULATION OF WELLS WITHIN THE AREA OF REVIEW

BOBBY FEE #1

WELL NAME	OPERATOR	LOCATION	TYPE	SPUD	COMPLETED	TD/PBTD	INTERVAL	FORMATION	CASING PROGRAM
Santa Fe Pacific "F" #1 30-025-03605	Magnolia Petroleum Company	2310' FSL - 660' FEL SECTION 26-9S-36E	P&A	03/21/56	Dry Hole	TD-12373' PBTD - 10762'	N/A	Pennsylvanian	See Attached Schematic

**Magnolia Pet. Comp.**  
**Santa Fe Pacific "F" 1**  
**API 30-025-03605**  
**2310'FSL 660'FEL**  
**Sec 26 - 9S - 36E**  
**Lea Co., NM**  
**GL 4031'**



P & A 7/28/61  
 Cut Off 5.5" csg @ 9575'

**P & A Filing**

"Set Cement Plugs @:  
 40sxs at 9405-9500'  
 30sxs at 8929-9004'  
 80sxs at 4980-5180'  
 10sxs at surface  
 PA 7/28/61"

AUTHORIZATION TO INJECT  
MARBOB ENERGY CORPORATION

BOBBY FEE No. 1

AFFIRMATIVE STATEMENT

I have examined all geologic and engineering data available for the Crossroads field and find no evidence of open faults and other hydrologic connection between the disposal zone and any underground drinking water sources.

Name: Martin Joyce

Date: 4/3/2000

Signature: 

Title: Geologist

AUTHORIZATION TO INJECT  
MARBOB ENERGY CORPORATION

BOBBY FEE No. 1

VII Proposed Operation Data:

1. Proposed Rate of Injection:
  - A. Average daily rate of injection: 1,000 barrels
  - B. Maximum daily rate of injection: 10,000 barrels
  
2. Type of System:

System will be closed
  
3. Anticipated Injection Pressure:

It is anticipated that the injection pressure will be nominal but in no event would the pressure exceed 0.2 psi per foot of depth to the top of the injection zone at 12,288 feet or 2458 psi.
  
4. Source of Injection Water:

The produced water that is to be disposed of is sourced from wells producing from the Devonian formation. These wells are located in Sections 30 and 31 of Township 9 South, Range 36 East. An analysis of water to be disposed of is attached as Exhibit 2.
  
5. Disposal Zone Water Analysis:

See attached Exhibit 1.

Authorization to Inject continued  
Marbob Energy Corporation  
Bobby Fee No. 1 Well

## VIII Geologic Data

### A. Injection Zone

1. Name: Devonian
2. Lithology: Dolomite
3. Thickness:  $\pm 300'$
4. Depth:  $\pm 12200'$

## IX Proposed Conversions / Stimulation Program

1. Move in, rig up work over unit, nipple up 3000 Psi manual blow out preventer, Pull out of hole with tubing. Pick up 5 ½" cement retainer, run in hole & set at 11,500' +/-, & squeeze perfs @ 11531'-37', 11542'-48'. If squeeze is obtained, sting out of cement retainer and reverse out, pull out of hole with tubing, lay down setting tool. Pick up 4 ¾" mill tooth bit, 6-DC'S, run in hole with tubing and drill out cement retainer and cement. Test squeeze hole to 500 Psi. If test is okay, drill out cement and cast iron bridge plug at 11990' and clean out to total depth. Pull out of hole laying down tubing drill collars and bit. Pick up 5 ½" plastic coated Inj packer and internal plastic coated tubing. Run in hole to 12200' +/-, circulate packer fluid down casing, nipple down blow out preventer, flange up wellhead, and test packer to 500 Psi. If test is okay, prep for disposal. Rig down move out work over unit, clean location.

## X Logging Data

Logs for these wells have been filed with the Division

## XI Fresh Water Analysis

A search of the New Mexico State Engineer's records at the Roswell, NM District Office resulted in finding no permitted fresh water wells within the one mile area of review.



# Permian Treating Chemicals WATER ANALYSIS REPORT

## SAMPLE

Oil Co. : **Marbob Energy**  
 Lease : **Lewis Fee**  
 Well No. : **# 1**  
 Lab No. : **090298.002**

Sample Loc. :  
 Date Analyzed: **02-September-1998**  
 Date Sampled :

## ANALYSIS

SEP 14 1998

1. pH 6.530
2. Specific Gravity 60/60 F. 1.043
3. CaCO<sub>3</sub> Saturation Index @ 80 F. -0.210  
 @ 140 F. +0.700

### Dissolved Gasses

- |                     | MG/L           | EQ. WT. | *MEQ/L |
|---------------------|----------------|---------|--------|
| 4. Hydrogen Sulfide | Not Present    |         |        |
| 5. Carbon Dioxide   | Not Determined |         |        |
| 6. Dissolved Oxygen | Not Determined |         |        |

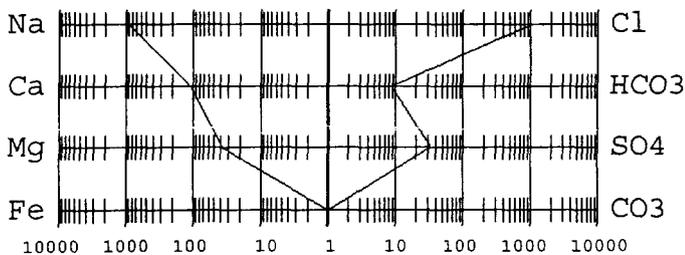
### Cations

- |   |                |   |        |        |
|---|----------------|---|--------|--------|
| 7. Calcium (Ca <sup>++</sup> )            | 2,084          | / | 20.1 = | 103.68 |
| 8. Magnesium (Mg <sup>++</sup> )          | 442            | / | 12.2 = | 36.23  |
| 9. Sodium (Na <sup>+</sup> ) (Calculated) | 20,399         | / | 23.0 = | 886.91 |
| 10. Barium (Ba <sup>++</sup> )            | Not Determined |   |        |        |

### Anions

- |  |            |   |        |        |
|--|------------|---|--------|--------|
| 11. Hydroxyl (OH <sup>-</sup> )                  | 0          | / | 17.0 = | 0.00   |
| 12. Carbonate (CO <sub>3</sub> <sup>=</sup> )    | 0          | / | 30.0 = | 0.00   |
| 13. Bicarbonate (HCO <sub>3</sub> <sup>-</sup> ) | 513        | / | 61.1 = | 8.40   |
| 14. Sulfate (SO <sub>4</sub> <sup>=</sup> )      | 1,550      | / | 48.8 = | 31.76  |
| 15. Chloride (Cl <sup>-</sup> )                  | 34,992     | / | 35.5 = | 985.69 |
| 16. Total Dissolved Solids                       | 59,980     |   |        |        |
| 17. Total Iron (Fe)                              | 7          | / | 18.2 = | 0.36   |
| 18. Total Hardness As CaCO <sub>3</sub>          | 7,026      |   |        |        |
| 19. Resistivity @ 75 F. (Calculated)             | 0.161 /cm. |   |        |        |

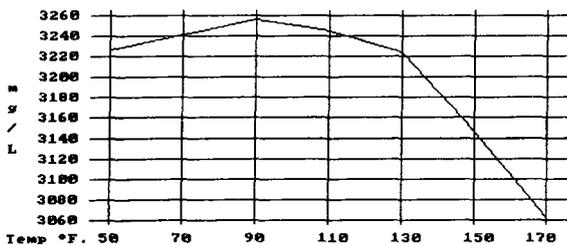
### LOGARITHMIC WATER PATTERN \*meq/L.



### PROBABLE MINERAL COMPOSITION COMPOUND EQ. WT. X \*meq/L = mg/L.

Ca (HCO <sub>3</sub> ) <sub>2</sub>	81.04	8.40	680
CaSO <sub>4</sub>	68.07	31.76	2,162
CaCl <sub>2</sub>	55.50	63.52	3,526
Mg (HCO <sub>3</sub> ) <sub>2</sub>	73.17	0.00	0
MgSO <sub>4</sub>	60.19	0.00	0
MgCl <sub>2</sub>	47.62	36.23	1,725
NaHCO <sub>3</sub>	84.00	0.00	0
NaSO <sub>4</sub>	71.03	0.00	0
NaCl	58.46	885.94	51,792

### Calcium Sulfate Solubility Profile



\*Milli Equivalents per Liter

This water is slightly corrosive due to the pH observed on analysis.  
 The corrosivity is increased by the content of mineral salts in solution.

AUTHORIZATION TO INJECT  
MARBOB ENERGY CORPORATION

BOBBY FEE No. 1

PROOF OF NOTICE

A copy of this application has been furnished to the land owner of the land on which the proposed well is located and the leasehold operators within the area of review. Also, a notice has been published in the Lovington Daily Leader, Lovington, New Mexico. Copies of such are attached.

LOVINGTON DAILY LEADER  
LEGAL NOTICES

Marbob Energy Corporation, Post Office Box 227, Artesia, New Mexico 88211-0227 has filed Form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for a salt water disposal well. The proposed well, the Bobby Fee No. 1 is located 2252 feet from the south line and 990 feet from the west line, Section 25, Township 9 South, Range 36 East, Lea County, New Mexico. Disposal water will be sourced from area wells producing from the Devonian formation. The disposal water will be injected into the Devonian formation at a depth 12,288'. A maximum surface pressure of 2458 psi, and a maximum rate of 10,000 BWPD. Any interested party who has an objection to this must give notice in writing to the Oil Conservation Division, 2040 South Pacheco Street, Santa Fe, New Mexico 87505 within fifteen (15) days of this notice. Any interested party with questions or comments may contact Dean Chumbley at Marbob Energy Corporation, Post Office Box 227, Artesia, New Mexico 88211-0227 or call (505) 748-3303.

Published in the Lovington Daily Leader,  
Lovington, New Mexico \_\_\_\_\_,  
2000.



**marbob**  
energy corporation

March 31, 2000

Santa Fe Snyder Corporation  
550 West Texas, Suite 1330  
Midland, Texas 79701

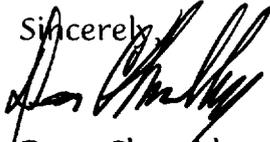
RE: Conversion to Disposal Well - Bobby Fee No. 1  
2252' FSL and 990' FWL, Section 25-9S-36E  
Lea County, New Mexico

Gentlemen:

Enclosed, for your review, is a copy of Marbob Energy Corporation's Application for converting the Bobby Fee No. 1 into a produced water disposal well.

As a requirement of the New Mexico Oil Conservation Division, we are required to notify any offset operators, as well as surface and mineral owners, of our proposal to convert the before mentioned well into a disposal well. If you have any objections, you must notify the Oil Conservation Division of Santa Fe in writing within fifteen (15) days of this letter. If you have no objections to the proposed disposal well, please sign below and return a copy to our offices.

Thank you for your cooperation in this matter. Do not hesitate to contact us should you have any questions concerning this matter.

Sincerely,  
  
Dean Chumbley  
Land Department

Santa Fe Snyder Corporation has no objection to the proposed disposal well.

By: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_



**marbob**  
energy corporation

March 31, 2000

G.W. Ainsworth  
314 Falcon Court  
Coppell, Texas 75019

RE: Conversion to Disposal Well - Bobby Fee No. 1  
2252' FSL and 990' FWL, Section 25-9S-36E  
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Thank you for your cooperation in this matter. Do not hesitate to contact us should you have any questions concerning this matter.

Sincerely,  
  
Dean Chumbley  
Land Department

G. W. Ainsworth has no objection to the proposed disposal well.

By: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_



**marbob**  
energy corporation

March 31, 2000

Santa Fe Pacific Gold Corporation  
1700 Lincoln Street  
Denver, Colorado 80203

RE: Conversion to Disposal Well - Bobby Fee No. 1  
2252' FSL and 990' FWL, Section 25-9S-36E  
Lea County, New Mexico

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Thank you for your cooperation in this matter. Do not hesitate to contact us should you have any questions concerning this matter.

Sincerely,

Dean Chumbley  
Land Department

Santa Fe Pacific Gold Corporation  
has no objection to the proposed disposal well.

By: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_



**marbob**  
energy corporation

March 31, 2000

William Schwartz  
306 West Wall, Suite 1020  
Midland, Texas 79701

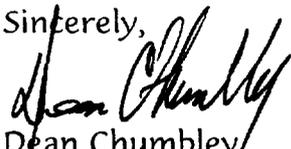
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Lea County, New Mexico

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Thank you for your cooperation in this matter. Do not hesitate to contact us should you have any questions concerning this matter.

Sincerely,  
  
Dean Chumbley  
Land Department

William Schwartz has no objection to the proposed disposal well.

By: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_



**marbob**  
energy corporation

March 31, 2000

KCS Medallion Resources, Inc.  
7130 S. Lewis Ave., Suite 700  
Tulsa, Oklahoma 74136-5489

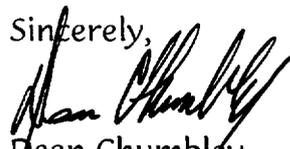
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Thank you for your cooperation in this matter. Do not hesitate to contact us should you have any questions concerning this matter.

Sincerely,  
  
Dean Chumbley  
Land Department

KCS Medallion Resources has no objection to the proposed disposal well.

By: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_



**marbob**  
energy corporation

March 31, 2000

Atlantic Richfield Company  
Post Office Box 1610  
Midland, Texas 79702

RE: Conversion to Disposal Well - Bobby Fee No. 1  
2252' FSL and 990' FWL, Section 25-9S-36E  
Lea County, New Mexico

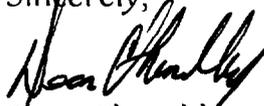
Gentlemen:

Enclosed, for your review, is a copy of Marbob Energy Corporation's Application for converting the Bobby Fee No. 1 into a produced water disposal well.

As a requirement of the New Mexico Oil Conservation Division, we are required to notify any offset operators, as well as surface and mineral owners, of our proposal to convert the before mentioned well into a disposal well. If you have any objections, you must notify the Oil Conservation Division of Santa Fe in writing within fifteen (15) days of this letter. If you have no objections to the proposed disposal well, please sign below and return a copy to our offices.

Thank you for your cooperation in this matter. Do not hesitate to contact us should you have any questions concerning this matter.

Sincerely,

  
Dean Chumbley  
Land Department

Atlantic Richfield Company has no objection to the proposed disposal well.

By: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_



**marbob**  
energy corporation

March 31, 2000

Williams Ranch  
HC 65, Box 30  
Crossroads, New Mexico 88114

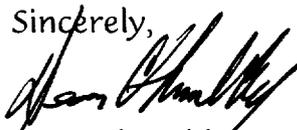
RE: Conversion to Disposal Well - Bobby Fee No. 1  
2252' FSL and 990' FWL, Section 25-9S-36E  
Lea County, New Mexico

Gentlemen:

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Sincerely,  
  
Dean Chumbley  
Land Department

Williams Ranch has no objection to the proposed disposal well.

By: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_