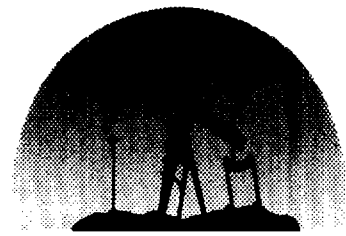


RECEIVED MAY 31, 1984

SP



marbob

energy corporation

May 29, 1984

Mr. Joe D. Ramey
Division Director
Oil Conservation Division
New Mexico Energy and Minerals Department
P. O. Box 2088
Santa Fe, New Mexico 87501

Dear Mr. Ramey:

Enclosed herewith, in duplicate, is the application of Marbob Energy Corporation for authority to convert to water disposal the State MO Well No. 1 located 1320 feet from the North line and 1320 feet from the West line of Section 27, Township 17 South, Range 28 East, N.M.P.M., Eddy County, New Mexico.

Waters to be disposed of will consist of San Andres production water from the Red Lake Queen Grayburg San Andres Pool and the Artesia Queen Grayburg San Andres Pool.

Application is made pursuant to Rule 701 D of the Division Rules and Regulations for Administrative Approval for disposal into the Upper Pennsylvanian formation which is nonproductive of oil or gas within a radius of two miles from the proposed injection well.

Publication of Marbob's intent to utilize the subject well for water disposal has been made in the Artesia Daily Press, and copies of this application have been furnished to each leasehold operator within one half mile of the well. The State of New Mexico is the owner of the surface of the land upon which the well is located.

Your approval of the subject application at the expiration of the required 15-day waiting period is respectfully requested.

Sincerely,

Raye Miller

Raye Miller
Land Department

RM:kmh
Encl:

BEFORE THE NEW MEXICO OIL CONSERVATION DIVISION
APPLICATION FOR ADMINISTRATIVE APPROVAL
MARBOB ENERGY CORPORATION
FOR CONVERSION TO WATER DISPOSAL
THE
STATE MO WELL NO. 1

Located 1320' FNL 1320' FWL Sec. 27, T-17S, R-28E.
Eddy County, New Mexico

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Proof of Notice (by publication).....	C-108 XIV(b)

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: P. O. Drawer 217, Artesia, New Mexico 88210
Contact party: Raye Miller 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 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.
- 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: Raye Miller Title: Secretary-Treasurer
Signature: Raye Miller Date: 5/31/84
- * 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.

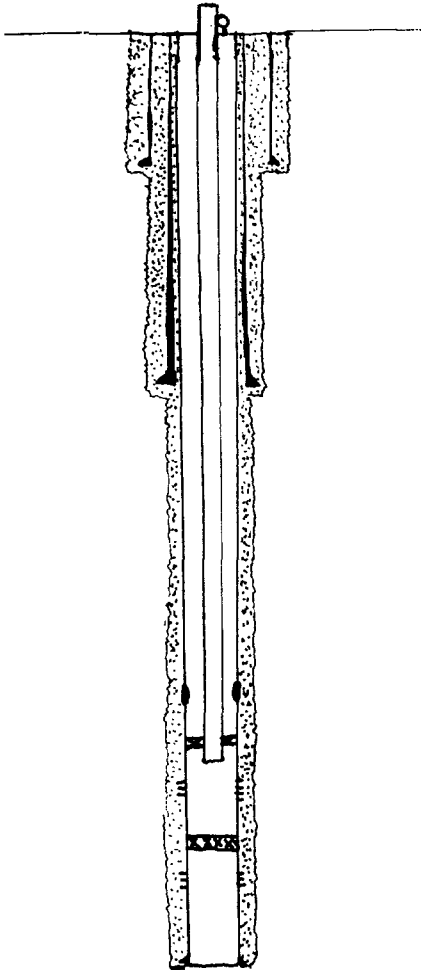
NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

Marbob Energy Corporation State MO

OPERATOR	LEASE	WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
1	1320 FNL 1320 FWL	27	17S	28E		

Schematic

Tubular Data



Surface Casing

Size 13 3/8 " Cemented with 450 ex.
 TOC Surface feet determined by cement circulated
 Hole size 17 1/2"

Intermediate Casing

Size 8 5/8 " Cemented with 1300 ex.
 TOC Surface feet determined by cement circulated
 Hole size 12 1/4"

Long string

Size 5 1/2 " Cemented with 3000 ex.
 TOC Surface feet determined by cement circulated
 Hole size 7 7/8"
 Total depth 10607'

Injection interval

7920 feet to 8000 feet
 (perforated or open-hole, indicate which)

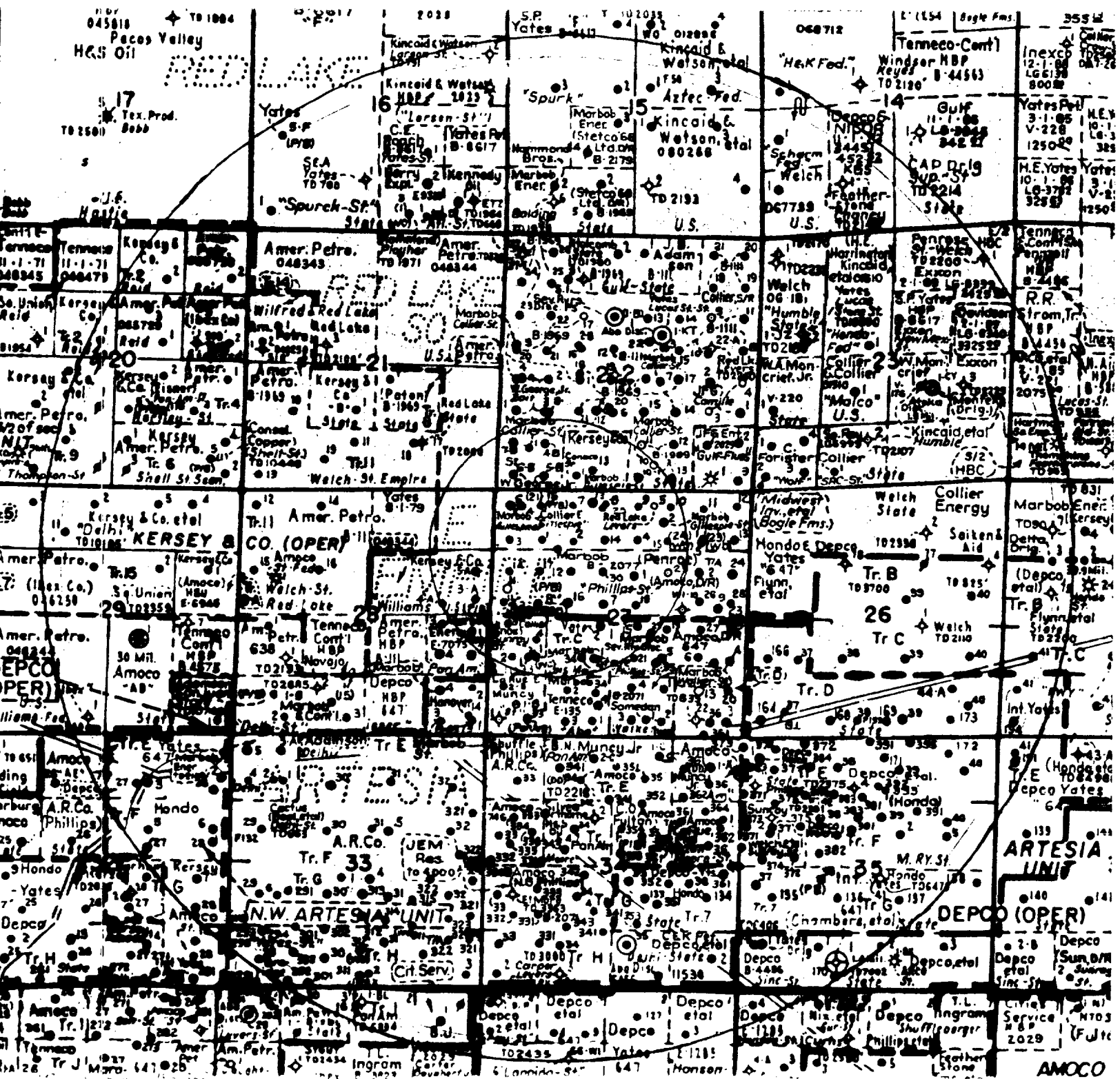
Tubing size 2 3/8" lined with plastic coating set in a
 (material)
5 1/2" Giberson Uni VI packer at 7870 feet
 (brand and model)
 (or describe any other casing-tubing seal).

Other Data

- Name of the injection formation Upper Pennsylvanian, Cisco
- Name of field or pool (if applicable) N/A
- Is this a new well drilled for injection? ☐ Yes ☒ No
 If no, for what purpose was the well originally drilled? oil and gas production
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) originally perforated 10130'-10232' in the Morrow. Set CIBP with 35' cement cap at 10020. Perforated 9890'-9902' in the Atoka. Atoka currently open.
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. No underlying production within 1/2 mile radius. Overlying pools are the Red Lake Queen Grayburg San Andres at approx. 2000' and the Empire Yates Seven Rivers East at approx. 800'

ATTACHMENT NO. C-108 V
APPLICATION FOR ADMINISTRATIVE APPROVAL

MARBOB ENERGY CORPORATION
STATE MO DISPOSAL WELL



WELL DATA

A reveiw of the records indicate there are no wells which have been drilled to the depth of the proposed disposal zone within the area of review.

Attachment C-108 VI

DATA SHEET

(Section VII, Form C-108)

1. Proposed Rate of Injection
 - A. Average daily rate of injection: 2000 barrels
 - B. Maximum daily rate of injection: 5000 barrels
2. Type of System

System will be open
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 7920 feet, or 1584 psi.
4. Source of Injection Water

Source of disposal water is San Andres wells located in Sections 22, 23, and 27 of Township 17 South, Range 28 East. See Attachment VII (a) for analysis of disposal water.
5. Disposal Zone Water Analysis

Disposal is to be into a zone not productive of oil or gas within two miles of the proposed well. A review of the records revealed that there are not any analysis of water from this zone on file. Two offsetting wells reported sulfur water when testing this zone. Water analysis records were checked with Halliburton and Western Company to no avail. A review was made with Larry Brooks of the Artesia Oil Conservation Division for material on this zone in this area. We anticipate that the formation water will contain lower chlorides than our disposal water but that it will be compatible with the formation.

Attachement C-108 VII

HALLIBURTON DIVISION LABORATORY

HALLIBURTON SERVICES

MIDLAND DIVISION

HOBBS, NEW MEXICO 88240

LABORATORY WATER ANALYSIS

No. W84-373To Marbob, Inc.Date 5-15-84Drawer 217Artesia, New MexicoATTN: Mr. Raye Miller

This report is the property of Halliburton Company and neither it nor any part thereof nor a copy thereof is to be published or disclosed without first securing the express written approval of laboratory management; it may however, be used in the course of regular business operations by any person or concern and employees thereof receiving such report from Halliburton Company.

Submitted by _____ Date Rec. 5-15-84Well No. Collier Battery Depth _____ Formation San AndresCounty _____ Field Sec. 22, T17S, R28E Source _____Resistivity _____ 0.052 @ 75°F.Specific Gravity _____ 1.136pH _____ 6.8Calcium (Ca) _____ 3,000 *MPLMagnesium (Mg) _____ 960Chlorides (Cl) _____ 125,000Sulfates (SO₄) _____ 2,800Bicarbonates (HCO₃) _____ 440Soluble Iron (Fe) _____ Nil

Remarks: _____ *Milligrams per liter

Attachment C-108 VII(a)

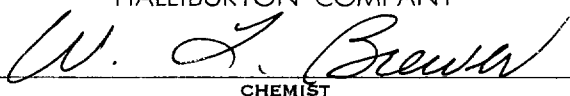
Respectfully submitted,

Analyst: Brewer

cc:

HALLIBURTON COMPANY

By _____



CHEMIST

NOTICE

THIS REPORT IS LIMITED TO THE DESCRIBED SAMPLE TESTED. ANY USER OF THIS REPORT AGREES THAT HALLIBURTON SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE, WHETHER IT BE TO ACT OR OMISSION, RESULTING FROM SUCH REPORT OR ITS USE.

GEOLOGICAL DATA
(Section VIII, Form C-108)

PHONE OFF. 622-0440

PHONE RES. 622-7764

Jack Ahlen

CONSULTING GEOLOGIST
533 PETROLEUM BUILDING
ROSWELL, NEW MEXICO 88201

17 April 1984

Marbob Energy Corporation
P.O. Box 304
Artesia, NM 88210

Re: Water Disposal,
Amoco 1 State MO
Sec 27 T17S R28E
Eddy County, NM

Gentlemen:

The Structure Cross Section which I have prepared for the above referenced project is attached. It displays the structural and stratigraphic relationships between porous strata near the disposal zone. I have marked the proposed disposal zone in color on the cross section at a depth of 7920' to 8000'. The zone is Upper Pennsylvanian, Cisco in age and is probably of reef origin as evidenced by the low radioactivity and the lack of shale interbeds. Note that several of the wells on the cross section have tested the zone with no show of significant oil or gas. Testing also suggests relatively good permeability as indicated by high fluid recoveries within a relatively short period of time. The proposed disposal zone appears to be adequate for your purposes.

The formerly producing Wolfcamp zones in the Eisner #1 Stanolind State and the Buffalo #1 Delhi State are not the same reservoir as the proposed disposal zone.

I have examined all available records and data and find that no well has been drilled to the depth of the proposed disposal zone within a one half mile radius of the disposal well. Of the 12 wells within two miles and drilled sufficiently deep to penetrate the proposed disposal zone no wells have produced oil or gas from that reservoir.

Appendix A tabulates all wells drilled below 7500' within two miles of the proposed water disposal well.

I recommend you seek administrative approval for your water disposal system.

Respectfully submitted,



Jack Ahlen

APPENDIX A

<u>Well Name</u>	<u>Location</u>	<u>TD</u>	<u>Pay Zone</u>
1. Kersey & Co. 5 Red Lake Tr 4 (Eisner 1 Stanolind State)	NW,SE 20 T17S R28E	10987	7324 Wolfcamp 1900 Grayburg
2. Kersey & Co. 5 Red Lake Tr 6 (Consolidated Copper Mines 1 Shell State)	SE,SE 20 T17S R28E	10440	1950 Grayburg
3. Yates Petroleum Corp. 1 Lucas Store KT	SW,NE 22 T17S R28E	10417	6610 Abo
4. Yates Petroleum Corp. 1 Lucas Store JZ	SW,NW 23 T17S R28E	10690	P & A
5. Exxon 1 NM CY State Comm	NW,SE 23 T17S R28E	11000	9956 Atoka
6. Hartman 1 South Empire State Comm	SW,SW 24 T17S R28E	10750	10481 Morrow
7. Amoco 1 State MO	CNW 27 T17S R28E	10607	TA
8. Adamson 1 Delhi B State	SW,SW 28 T17S R28E	10746	1922 Grayburg
9. Amoco 1 State Fed Gas Comm	SW,NW 28 T17S R28E	10324	10033 Atoka
10. Kersey & Co. 11 Delhi Buffalo 1 Delhi State JJ Eisner 1 Buffalo St.	NE,NW 29 T17S R28E	10185	7242 Wolfcamp 1902 Grayburg
11. Stanolind 1 State AB	NW,SE 29 T17S R28E	12431	10102 Morrow
12. Atlantic 301 Empire Abo Unit G	SW,Sw 33 T17S R28E	10498	6250 Abo

STIMULATION PROGRAM
(Section IX, Form C-108)

The proposed injection well was originally drilled in January, 1983 to test the Empire Penn Pool. 13 3/8" surface casing was set at 400' and cement circulated to the surface. 8 5/8" intermediate casing was set at 2090' and cement circulated to the surface. 5 1/2" production casing was set at 10,593' with a DV tool at 7,031'. Cement was also circulated to the surface. The well was tested in the Morrow at 10,130' to 10,232'. A cast iron bridge plug was set at 10,020' and capped with 35' of cement. The Cisco was opened at 7,920' to 7,972'. The zone tested 100 bbls water with 2 to 3' flare after each run in 8-1/2 hours. The perforations were squeezed off from 7,902' to 7,972'. Drilled out cement and tested Atoka from 9,890' to 9,902'. This zone is currently open.

It is proposed to set a cast iron bridge plug at +- 9,500' with 3 sacks of cement on top of it. Perforations will be made from 7,920' to 8,000' as the disposal zone. Treatment of the interval would consist of 1,000 gallons of 15% NE acid.

LOGGING DATA

(Section X, Form C-108)

The Schlumberger Compensated Neutron Formation Density Log run on the subject well on January 28, 1983 is included here as attachment A to this Data Sheet, with the proposed disposal interval marked in red thereon.

FRESH WATER ANALYSIS

(Section XI, Form C-108)

As indicated by Attachment (b) there were no records found on fresh water wells in this area. Our search of the area found three water wells in Section 22. Two of the three wells were abandoned. An analysis of the producing well is shown in Attachment (a). This well is located in the SE1/4 of the SW1/4 of Section 22 and produces from a depth of about 80 feet.

HALLIBURTON DIVISION LABORATORY

HALLIBURTON SERVICES

MIDLAND DIVISION

HOBBS, NEW MEXICO 88240

LABORATORY WATER ANALYSIS

No. W84-374

To Marbob, Inc.

Date 5-15-84

Drawer 217

Artesia, New Mexico

ATTN: Mr. Raye Miller

This report is the property of Halliburton Company and neither it nor any part thereof nor a copy thereof is to be published or disclosed without first securing the express written approval of laboratory management; it may however, be used in the course of regular business operations by any person or concern and employees thereof receiving such report from Halliburton Company.

Submitted by _____ Date Rec. 5-15-84

Well No. Standard Fr. Wtr. Well Depth _____ Formation _____

County _____ Field Sec. 22, T17S-R28E Source _____

Resistivity _____ 9.73 @ 75°F.

Specific Gravity _____ 1.005

pH _____ 8.2

Calcium (Ca) _____ 160 _____ *MPL

Magnesium (Mg) _____ 66

Chlorides (Cl) _____ 400

Sulfates (SO₄) _____ 900Bicarbonates (HCO₃) _____ 290

Soluble Iron (Fe) _____ Nil

Remarks: _____ *Milligrams per liter

ATTACHMENT C-108 XI (a)

Respectfully submitted,

Analyst: Brewer

cc:

HALLIBURTON COMPANY

By


CHEMIST

NOTICE

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Jack Ahlen

CONSULTING GEOLOGIST
533 PETROLEUM BUILDING
ROSWELL, NEW MEXICO 88201

13 April 1984

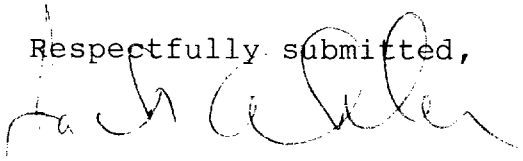
Mr. Ray Miller
Marbob Energy Corporation
P.O. Box 304
Artesia, NM 88210

Re: Water Disposal System
State MO #1
Sec 27 T17S R28E
Eddy County, NM

Gentlemen:

A search of the State Engineer's Office in Roswell reveals that the above referenced water disposal system lies outside all declared underground water basins. No official records of water wells are available.

Respectfully submitted,


Jack Ahlen

ATTACHMENT C-108 XI (b)

AFFIRMATIVE STATEMENT

(Section XII, Form C-108)

Applicant hereby affirms that he has examined the available geologic and engineering data and finds no evidence of open faults or other hydrologic connection between the disposal zone and any underground source of drinking water.

BEFORE THE NEW MEXICO OIL CONSERVATION DIVISION
APPLICATION FOR ADMINISTRATIVE APPROVAL
MARBOB ENERGY CORPORATION
FOR CONVERSION TO WATER DISPOSAL
THE
STATE MO WELL NO. 1

Located 1320' FNL 1320' FWL Sec. 27, T-17S, R-28E.
Eddy County, New Mexico

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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: P. O. Drawer 217, Artesia, New Mexico 88210
Contact party: Raye Miller Phone: (505) 748-3303
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- 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.
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- 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: Raye Miller Title: Secretary-Treasurer
Signature: Raye Miller Date: 5/31/84
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- (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.
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- (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.

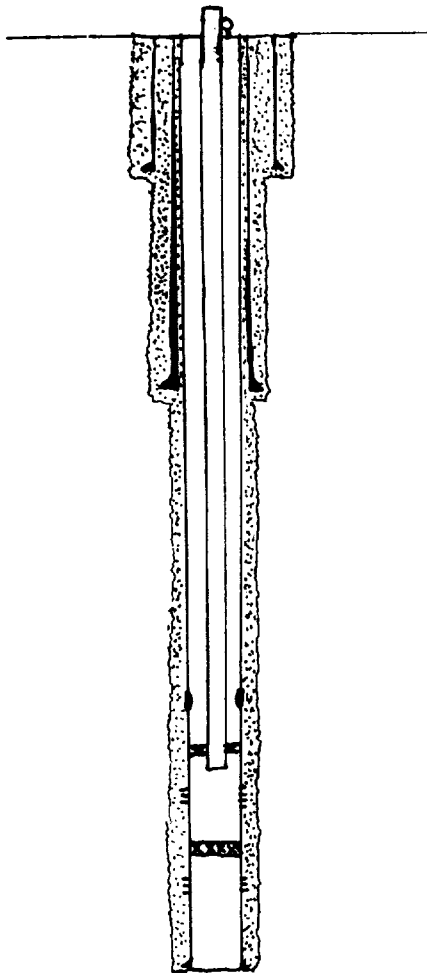
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Marbob Energy Corporation State MO

OPERATOR	LEASE			
1	1320 FNL 1320 FWL	27	17S	28E
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE

Schematic



Tabular Data

Surface Casing

Size 13 3/8 " Cemented with 450 ex.
 TOC Surface feet determined by cement circulated
 Hole size 17 1/2"

Intermediate Casing

Size 8 5/8 " Cemented with 1300 ex.
 TOC Surface feet determined by cement circulated
 Hole size 12 1/4"

Long string

Size 5 1/2 " Cemented with 3000 ex.
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7920 feet to 8000 feet
 (perforated or open-hole, indicate which)

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 (material)
5 1/2" Giberson Uni VI packer at 7870 feet
 (brand and model)
 (or describe any other casing-tubing seal).

Other Data

- Name of the injection formation Upper Pennsylvanian, Cisco
- Name of Field or Pool (if applicable) N/A
- Is this a new well drilled for injection? ☐ Yes ☒ No
 If no, for what purpose was the well originally drilled? oil and gas production
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) originally perforated 10130'-10232' in the Morrow. Set CIBP with 35' cement cap at 10020. Perforated 9890'-9902' in the Atoka. Atoka currently open.
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. No underlying production within 1/2 mile radius. Overlying pools are the Red Lake Queen Grayburg San Andres at approx. 2000' and the Empire Yates Seven Rivers East at approx. 800'

MARBOB ENERGY CORPORATION
STATE MO DISPOSAL WELL

WELL DATA

A reveiw of the records indicate there are no wells which have been drilled to the depth of the proposed disposal zone within the area of review.

Attachment C-108 VI

DATA SHEET

(Section VII, Form C-108)

1. Proposed Rate of Injection
 - A. Average daily rate of injection: 2000 barrels
 - B. Maximum daily rate of injection: 5000 barrels
2. Type of System

System will be open
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 7920 feet, or 1584 psi.
4. Source of Injection Water

Source of disposal water is San Andres wells located in Sections 22, 23, and 27 of Township 17 South, Range 28 East. See Attachment VII (a) for analysis of disposal water.
5. Disposal Zone Water Analysis

Disposal is to be into a zone not productive of oil or gas within two miles of the proposed well. A review of the records revealed that there are not any analysis of water from this zone on file. Two offsetting wells reported sulfur water when testing this zone. Water analysis records were checked with Halliburton and Western Company to no avail. A review was made with Larry Brooks of the Artesia Oil Conservation Division for material on this zone in this area. We anticipate that the formation water will contain lower chlorides than our disposal water but that it will be compatible with the formation.

Attachement C-108 VII

HALLIBURTON DIVISION LABORATORY

HALLIBURTON SERVICES

MIDLAND DIVISION

HOBBS, NEW MEXICO 88240

LABORATORY WATER ANALYSIS

No. W84-373To Marbob, Inc.Date 5-15-84Drawer 217Artesia, New MexicoATTN: Mr. Raye Miller

This report is the property of Halliburton Company and neither it nor any part thereof nor a copy thereof is to be published or disclosed without first securing the express written approval of laboratory management; it may however, be used in the course of regular business operations by any person or concern and employees thereof receiving such report from Halliburton Company.

Submitted by _____ Date Rec. 5-15-84Well No. Collier Battery Depth _____ Formation San AndresCounty _____ Field Sec. 22, T17S, R28E Source _____Resistivity _____ 0.052 @ 75°F.Specific Gravity _____ 1.136pH _____ 6.8Calcium (Ca) _____ 3,000 *MPLMagnesium (Mg) _____ 960Chlorides (Cl) _____ 125,000Sulfates (SO₄) _____ 2,800Bicarbonates (HCO₃) _____ 440Soluble Iron (Fe) _____ Nil

Remarks: _____ *Milligrams per liter

Attachment C-108 VII(a)

Respectfully submitted,

Analyst: Brewer

cc:

HALLIBURTON COMPANY

By

W. L. Brewer

CHEMIST

NOTICE

THIS REPORT IS LIMITED TO THE DESCRIBED SAMPLE TESTED. ANY USER OF THIS REPORT AGREES THAT HALLIBURTON SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE, WHETHER IT BE TO ACT OR OMISSION, RESULTING FROM SUCH REPORT OR ITS USE.

GEOLOGICAL DATA
(Section VIII, Form C-108)

PHONE OFF. 622-0440

PHONE RES. 622-7764

Jack Ahlen

CONSULTING GEOLOGIST
533 PETROLEUM BUILDING
ROSWELL, NEW MEXICO 88201

17 April 1984

Marbob Energy Corporation
P.O. Box 304
Artesia, NM 88210

Re: Water Disposal,
Amoco 1 State MO
Sec 27 T17S R28E
Eddy County, NM

Gentlemen:

The Structure Cross Section which I have prepared for the above referenced project is attached. It displays the structural and stratigraphic relationships between porous strata near the disposal zone. I have marked the proposed disposal zone in color on the cross section at a depth of 7920' to 8000'. The zone is Upper Pennsylvanian, Cisco in age and is probably of reef origin as evidenced by the low radioactivity and the lack of shale interbeds. Note that several of the wells on the cross section have tested the zone with no show of significant oil or gas. Testing also suggests relatively good permeability as indicated by high fluid recoveries within a relatively short period of time. The proposed disposal zone appears to be adequate for your purposes.

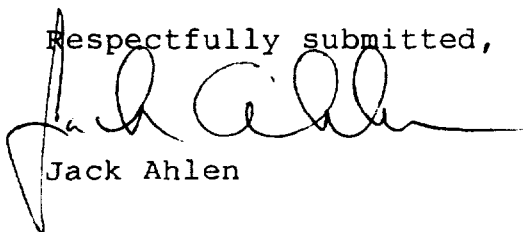
The formerly producing Wolfcamp zones in the Eisner #1 Stanolind State and the Buffalo #1 Delhi State are not the same reservoir as the proposed disposal zone.

I have examined all available records and data and find that no well has been drilled to the depth of the proposed disposal zone within a one half mile radius of the disposal well. Of the 12 wells within two miles and drilled sufficiently deep to penetrate the proposed disposal zone no wells have produced oil or gas from that reservoir.

Appendix A tabulates all wells drilled below 7500' within two miles of the proposed water disposal well.

I recommend you seek administrative approval for your water disposal system.

Respectfully submitted,



Jack Ahlen

APPENDIX A

<u>Well Name</u>	<u>Location</u>	<u>TD</u>	<u>Pay Zone</u>
1. Kersey & Co. 5 Red Lake Tr 4 (Eisner 1 Stanolind State)	NW,SE 20 T17S R28E	10987	7324 Wolfcamp 1900 Grayburg
2. Kersey & Co. 5 Red Lake Tr 6 (Consolidated Copper Mines 1 Shell State)	SE,SE 20 T17S R28E	10440	1950 Grayburg
3. Yates Petroleum Corp. 1 Lucas Store KT	SW,NE 22 T17S R28E	10417	6610 Abo
4. Yates Petroleum Corp. 1 Lucas Store JZ	SW,NW 23 T17S R28E	10690	P & A
5. Exxon 1 NM CY State Comm	NW,SE 23 T17S R28E	11000	9956 Atoka
6. Hartman 1 South Empire State Comm	SW,SW 24 T17S R28E	10750	10481 Morrow
7. Amoco 1 State MO	CNW 27 T17S R28E	10607	TA
8. Adamson 1 Delhi B State	SW,SW 28 T17S R28E	10746	1922 Grayburg
9. Amoco 1 State Fed Gas Comm	SW,NW 28 T17S R28E	10324	10033 Atoka
10. Kersey & Co. 11 Delhi Buffalo 1 Delhi State JJ Eisner 1 Buffalo St.	NE,NW 29 T17S R28E	10185	7242 Wolfcamp 1902 Grayburg
11. Stanolind 1 State AB	NW,SE 29 T17S R28E	12431	10102 Morrow
12. Atlantic 301 Empire Abo Unit G	SW,Sw 33 T17S R28E	10498	6250 Abo

STIMULATION PROGRAM
(Section IX, Form C-108)

The proposed injection well was originally drilled in January, 1983 to test the Empire Penn Pool. 13 3/8" surface casing was set at 400' and cement circulated to the surface. 8 5/8" intermediate casing was set at 2090' and cement circulated to the surface. 5 1/2" production casing was set at 10,593' with a DV tool at 7,031'. Cement was also circulated to the surface. The well was tested in the Morrow at 10,130' to 10,232'. A cast iron bridge plug was set at 10,020' and capped with 35' of cement. The Cisco was opened at 7,920' to 7,972'. The zone tested 100 bbls water with 2 to 3' flare after each run in 8-1/2 hours. The perforations were squeezed off from 7,902' to 7,972'. Drilled out cement and tested Atoka from 9,890' to 9,902'. This zone is currently open.

It is proposed to set a cast iron bridge plug at +/- 9,500' with 3 sacks of cement on top of it. Perforations will be made from 7,920' to 8,000' as the disposal zone. Treatment of the interval would consist of 1,000 gallons of 15% NE acid.

LOGGING DATA

(Section X, Form C-108)

The Schlumberger Compensated Neutron Formation Density Log run on the subject well on January 28, 1983 is included here as attachment A to this Data Sheet, with the proposed disposal interval marked in red thereon.

FRESH WATER ANALYSIS

(Section XI, Form C-108)

As indicated by Attachment (b) there were no records found on fresh water wells in this area. Our search of the area found three water wells in Section 22. Two of the three wells were abandoned. An analysis of the producing well is shown in Attachment (a). This well is located in the SE1/4 of the SW1/4 of Section 22 and produces from a depth of about 80 feet.

HALLIBURTON DIVISION LABORATORY

HALLIBURTON SERVICES
MIDLAND DIVISION
HOBBS, NEW MEXICO 88240

LABORATORY WATER ANALYSIS

No. W84-374To Marbob, Inc.Date 5-15-84Drawer 217Artesia, New MexicoATTN: Mr. Raye Miller

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Submitted by _____ Date Rec. 5-15-84Well No. Standard Fr. Wtr. Well Depth _____ Formation _____County _____ Field Sec. 22, T17S-R28E Source _____

Resistivity	<u>9.73 @ 75 °F.</u>	
Specific Gravity	<u>1.005</u>	
pH	<u>8.2</u>	
Calcium (Ca)	<u>160</u>	<u>*MPL</u>
Magnesium (Mg)	<u>66</u>	
Chlorides (Cl)	<u>400</u>	
Sulfates (SO ₄)	<u>900</u>	
Bicarbonates (HCO ₃)	<u>290</u>	
Soluble Iron (Fe)	<u>Nil</u>	

Remarks:

*Milligrams per liter

ATTACHMENT C-108 XI (a)

Respectfully submitted,

Analyst: Brewer

cc:

HALLIBURTON COMPANY

By


CHEMIST

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Jack Ahlen

CONSULTING GEOLOGIST
533 PETROLEUM BUILDING
ROSWELL, NEW MEXICO 88201

13 April 1984

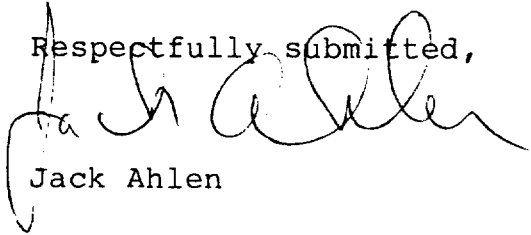
Mr. Ray Miller
Marbob Energy Corporation
P.O. Box 304
Artesia, NM 88210

Re: Water Disposal System
State MO #1
Sec 27 T17S R28E
Eddy County, NM

Gentlemen:

A search of the State Engineer's Office in Roswell reveals that the above referenced water disposal system lies outside all declared underground water basins. No official records of water wells are available.

Respectfully submitted,



Jack Ahlen

ATTACHMENT C-108 XI (b)

AFFIRMATIVE STATEMENT
(Section XII, Form C-108)

Applicant hereby affirms that he has examined the available geologic and engineering data and finds no evidence of open faults or other hydrologic connection between the disposal zone and any underground source of drinking water.



FILE SWD-274

JUL 8 1984

Gilbert Quintana
Oil Conservation Division
New Mexico Energy and Minerals Department
P. O. Box 2088
Santa Fe, New Mexico 87501

RE: Application of Marbob
Energy Corporation for
Disposal Well, Section 27,
T-17S, R-28E, N.M.P.M.,
Eddy County, New Mexico
Order SWD-274

Dear Gilbert:

Enclosed in duplicate please find Attachments C-108 XIV(a) and (b). I have also enclosed signed approvals by all of the operators in the disposal zone except for Amoco, Welch, and Husky. At such time as Marbob receives those three approvals they will be forwarded to you for your files. It is expected that work on this project will commence within two months.

Thank-you for your help.

Sincerely,

A handwritten signature in cursive script, appearing to read 'Kevin J. Bliss', is written over a horizontal line.

Kevin J. Bliss
Land Department

KJB:kmh
Encl:

PROOF OF NOTICE (offset Operators)
Attachment C-108 XIV(a)

PS Form 3811, Jan. 1978

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Senneca Exp. + Prod.
7990 IH 10 West
San Antonio, Tx. 78230

3. ARTICLE DESCRIPTION:
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672519420

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6. UNABLE TO DELIVER BECAUSE: CLERK'S INITIALS

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Yates Petroleum
207 S 4th
Artesia, n. ny 88210

3. ARTICLE DESCRIPTION:
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672519422

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Songo Inc.
P.O. Box 1459
Midland, Tx

3. ARTICLE DESCRIPTION:
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672519423

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2. ARTICLE ADDRESSED TO:
Keeper, Inc.
Empire Plaza Bldg.
Suite 815
Midland, Tx 79701

3. ARTICLE DESCRIPTION:
REGISTERED NO. CERTIFIED NO. INSURED NO.
672519419

(Always obtain signature of addressee or agent)

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DATE OF DELIVERY 5-30

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2. ARTICLE ADDRESSED TO:
Husky Oil Co
6060 S. Willow Drive
Englewood, Colorado 80111

3. ARTICLE DESCRIPTION:
 REGISTERED NO. CERTIFIED NO. INSURED NO.
67251942

(Always obtain signature of addressee or agent)

I have received the article described above.
 SIGNATURE ☐ Addressee ☐ Authorized agent
[Signature]

4. DATE OF DELIVERY
[Signature]

5. ADDRESS (Complete only if requested)

6. UNABLE TO DELIVER BECAUSE: CLERK'S INITIALS
[Signature]

☆GPO : 1979-288-848

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Van P. Welch
P.O. Box 742341
Houston, Tx. 77274-2341

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 REGISTERED NO. CERTIFIED NO. INSURED NO.
672519416

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[Signature]

4. DATE OF DELIVERY
[Signature]

5. ADDRESS (Complete only if requested)

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[Signature]

☆GPO : 1979-288-848

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2. ARTICLE ADDRESSED TO:
Hawley & Gates Co.
P.O. Box 19333
Reserve, N.M. 88201

3. ARTICLE DESCRIPTION:
 REGISTERED NO. CERTIFIED NO. INSURED NO.
672519417

(Always obtain signature of addressee or agent)

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[Signature]

4. DATE OF DELIVERY
5/31/84

5. ADDRESS (Complete only if requested)

6. UNABLE TO DELIVER BECAUSE: CLERK'S INITIALS
[Signature]

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☐ RESTRICTED DELIVERY.
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2. ARTICLE ADDRESSED TO:
New Production Co.
P.O. Box 1861
Midland, Tx 79702

3. ARTICLE DESCRIPTION:
 REGISTERED NO. CERTIFIED NO. INSURED NO.
672519418

(Always obtain signature of addressee or agent)

I have received the article described above.
 SIGNATURE ☐ Addressee ☒ Authorized agent
[Signature]

4. DATE OF DELIVERY
5-31-84

5. ADDRESS (Complete only if requested)

6. UNABLE TO DELIVER BECAUSE: CLERK'S INITIALS
[Signature]

☆GPO : 1979-288-848

RETURN RECEIPT, REGISTERED, INSURED AND CERTIFIED MAIL

PROOF OF NOTICE (Offset Operators)

Attachment C-108 XIV(a)

PS Form 3811, Jan. 1979

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2. ARTICLE ADDRESSED TO:
 Omico Production Co.
 P.O. Box 3092
 Houston, TX 77001

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 REGISTERED NO. CERTIFIED NO. INSURED NO.
 672519424
 (Always obtain signature of addressee or agent)

I have received the article described above.
 SIGNATURE ☐ Addressee ☐ Authorized agent
 M. Manly

4. DATE OF DELIVERY: JAN 1 1984 POSTMARK

5. ADDRESS (Complete only if requested)

6. UNABLE TO DELIVER BECAUSE: CARRIER'S INITIALS

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POST OFFICE, HOUSTON, TX GPU
 JAN 1 1984
 GPU 1879-288-848

PROOF OF NOTICE (offset Operators)

Attachment C-108 XIV(a)

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2. ARTICLE ADDRESSED TO:
 J.B. Adamson
 P.O. Box 727
 Artesia, N.M. 88210

3. ARTICLE DESCRIPTION:
 REGISTERED NO. CERTIFIED NO. INSURED NO.
 672519427

(Always obtain signature of addressee or agent)

I have received the article described above.
 SIGNATURE ☐ Addressee ☐ Authorized agent
 J.B. Adamson

4. DATE OF DELIVERY: 6-18-84 POSTMARK: JUN 19 1984

5. ADDRESS (Complete only if requested)

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☆GPO : 1979-288-848

PS Form 3811, Jan. 1978

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☐ RESTRICTED DELIVERY.
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2. ARTICLE ADDRESSED TO:
 Happyville
 P.O. Box 770
 Artesia, N.M. 88210

3. ARTICLE DESCRIPTION:
 REGISTERED NO. CERTIFIED NO. INSURED NO.
 672519428

(Always obtain signature of addressee or agent)

I have received the article described above.
 SIGNATURE ☐ Addressee ☐ Authorized agent
 Hilma Phewett

4. DATE OF DELIVERY: 6-7-84 POSTMARK: JUN 19 1984

5. ADDRESS (Complete only if requested)

6. UNABLE TO DELIVER BECAUSE: CLERK'S INITIALS

☆GPO : 1979-288-848

PS Form 3811, Jan. 1978

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☐ Show to whom, date and address of delivery.....
☐ RESTRICTED DELIVERY
 Show to whom and date delivered.....
☐ RESTRICTED DELIVERY.
 Show to whom, date, and address of delivery.\$____

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2. ARTICLE ADDRESSED TO:
 Harold Kelsey
 808 Woodward
 Artesia, N.M. 88210

3. ARTICLE DESCRIPTION:
 REGISTERED NO. CERTIFIED NO. INSURED NO.
 672519430

(Always obtain signature of addressee or agent)

I have received the article described above.
 SIGNATURE ☐ Addressee ☐ Authorized agent
 Harold Kelsey

4. DATE OF DELIVERY: 6-15-84 POSTMARK: JUN 15 1984

5. ADDRESS (Complete only if requested)

PS Form 3811, Jan. 1978

SENDER: Complete items 1, 2, and 3.
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 Show to whom and date delivered.....
☐ RESTRICTED DELIVERY.
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(CONSULT POSTMASTER FOR FEES)

2. ARTICLE ADDRESSED TO:
 Warren Hansen
 Rt. 1 Box 60
 Artesia, N.M. 88210

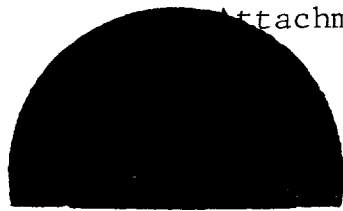
3. ARTICLE DESCRIPTION:
 REGISTERED NO. CERTIFIED NO. INSURED NO.
 672519431

(Always obtain signature of addressee or agent)

I have received the article described above.
 SIGNATURE ☐ Addressee ☐ Authorized agent
 Warren Hansen

4. DATE OF DELIVERY: 6-5-84 POSTMARK: JUN 5 1984

5. ADDRESS (Complete only if requested)



marbob

energy corporation

May 29, 1984

Tenneco Oil Exploration & Production
7990 IH 10 West
San Antonio, Texas 78230

RE: Proposed disposal well

Gentlemen:

Enclosed please find an application for a proposed salt water disposal well located in Section 27, Township 17 South, Range 28 East, Eddy County, New Mexico. If you have any questions regarding this application please contact me at (505) 748-3303.

If you have no objection to the application please sign below and return 1 copy of this letter to us.

Sincerely,

Raye Miller

Raye Miller
Land Department

Tenneco Oil Exploration & Production has no objection to the proposed disposal well.

BY: *Hyatt Villalobos*

Title: *Division Petroleum Engineer*

Date: *6/5/84*



marbob
energy corporation

May 29, 1984

Yates Petroleum Corporation
207 South 4th Street
Artesia, New Mexico 88210

RE: Proposed disposal well

Gentlemen:

Enclosed please find an application for a proposed salt water disposal well located in Section 27, Township 17 South, Range 28 East, Eddy County, New Mexico. If you have any questions regarding this application please contact me at (505) 748-3303.

If you have no objection to the application please sign below and return 1 copy of this letter to us.

Sincerely,

Ray Miller

Raye Miller
Land Department

Yates Petroleum Corporation has no objection to the proposed disposal well.

BY: *Randy H. Patterson*

Title: *Land Manager*

Date: *July 2, 1984*



marbob
energy corporation

May 29, 1984

RECEIVED
CONOCO INC.

MAY 31 1984

LAND DEPARTMENT
MIDLAND, TEXAS

Conoco, Inc. *TO Hobbs, N.M.*
P. O. Box 1959
Midland, Texas 79702

RE: Proposed disposal well

Gentlemen:

Enclosed please find an application for a proposed salt water disposal well located in Section 27, Township 17 South, Range 28 East, Eddy County, New Mexico. If you have any questions regarding this application please contact me at (505) 748-3303.

If you have no objection to the application please sign below and return 1 copy of this letter to us.

Sincerely,

Raye Miller

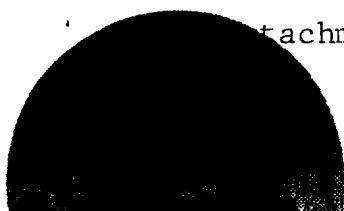
Raye Miller
Land Department

Conoco, Inc. has no objection to the proposed disposal well.

BY: *Donald M. Johnson*Title: Division ManagerDate: June 19, 1984

RECEIVED HOBBS DIVISION		
JUN 05 '84		
	DATE	INITIALS
Div. Manager		
Asst. Div. Mgr.		
Div. Adm. Mgr.		
Div. Engr.		
Drig Supt.		
Sys. Supv.		
Cons v. Coord		
Training Coord.		
Adm. Supv - APM		
Adm. Supv. S&S		
Sup. Prod. Eng.		
Sup. Resv. Eng.		
Prod. Supt. - H-I		
Prod. Supt. - H-II		
Prod. Supt. - F		

*SRC -
Pls comment
& return to
me. D.M.*



marbob

energy corporation

May 29, 1984

Depco, Inc.
Empire Plaza Building
Suite 875
Midland, Texas 79701

RE: Proposed disposal well

Gentlemen:

Enclosed please find an application for a proposed salt water disposal well located in Section 27, Township 17 South, Range 28 East, Eddy County, New Mexico. If you have any questions regarding this application please contact me at (505) 748-3303.

If you have no objection to the application please sign below and return 1 copy of this letter to us.

Sincerely,

Raye Miller

Raye Miller
Land Department

Depco, Inc. has no objection to the proposed disposal well.

BY: *AL Flowers*

Title: *Chief Eng*

Date: *6/4/84*



marbob

energy corporation

May 29, 1984

Sun Production Company
P. O. Box 1861
Midland, Texas 79702

RE: Proposed disposal well

Gentlemen:

Enclosed please find an application for a proposed salt water disposal well located in Section 27, Township 17 South, Range 28 East, Eddy County, New Mexico. If you have any questions regarding this application please contact me at (505) 748-3303.

If you have no objection to the application please sign below and return 1 copy of this letter to us.

Sincerely,

Raye Miller

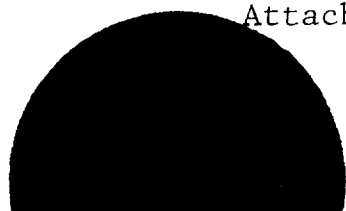
Raye Miller
Land Department

Sun Production Company has no objection to the proposed disposal well.

BY: *J. J. Ponier*

Title: *Reg. Construction Consultant*

Date: *6-11-84*

**marbob**

energy corporation

May 29, 1984

Harvey E. Yates Company
P. O. Box 1933
Roswell, New Mexico 88201

RE: Proposed disposal well

Gentlemen:

Enclosed please find an application for a proposed salt water disposal well located in Section 27, Township 17 South, Range 28 East, Eddy County, New Mexico. If you have any questions regarding this application please contact me at (505) 748-3303.

If you have no objection to the application please sign below and return 1 copy of this letter to us.

Sincerely,

Raye Miller
Land Department

Harvey E. Yates Company has no objection to the proposed disposal well.

BY:
George M. Yates *GMJ*
Title: President

Date: June 1, 1984

Affidavit of Publication

Copy of Publication

No. 10581

STATE OF NEW MEXICO,
County of Eddy:

Gary D. Scott being duly
sworn, says: That he is the Business Manager of The
Artesia Daily Press, a daily newspaper of general circulation,
published in English at Artesia, said county and state, and that
the hereto attached Legal Notice

was published in a regular and entire issue of the said Artesia
Daily Press, a daily newspaper duly qualified for that purpose
within the meaning of Chapter 167 of the 1937 Session Laws of
the State of New Mexico for 1 days
consecutive weeks on
the same day as follows:

First Publication May 31, 1984
Second Publication
Third Publication
Fourth Publication

and that payment therefore in the amount of \$
has been made.

Subscribed and sworn to before me this 12th day
of June, 1984

Notary Public, Eddy County, New Mexico

My Commission expires September 23, 1987

LEGAL NOTICE

Notice is hereby given pursuant to Rule 701 § 3 of the New Mexico Oil Conservation Division Rules and Regulations that it is the intent of Marbob Energy Corp. to utilize the State NO Well No. 11 located 1000 feet from the West Line and 1000 feet from the North Line of Section 27, Township 17 South, Range 28 East, Eddy County, New Mexico, for the underground disposal of produced water in the area. Disposal will average 2000 barrels per day but could go as high as 5000 barrels per day. Maximum injection pressure will not exceed 1000 pounds per square inch. Questions regarding this proposal may be directed to Raye Miller, Marbob Energy Corp., P.O. Drawer 217, Artesia, N.M. 88210, Telephone 748-3303.

Objections to this proposal or requests for hearing on the matter, together with the reasons therefor, must be filed in writing with the Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico 87501, within 15 days after date of publication of this notice.

Published in The Artesia Daily Press, Artesia, N.M., May 31,

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Legal No. 10581.