



**marbob**  
energy corporation

SWD

10/28/98

729

October 8, 1998

AOR TOTAL 0000

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

OCT 13 1998

*Attention: Mrs. Lori Wrotenbery, Division Director*

*Dear Mrs. Wrotenbery:*

*Enclosed herewith, is the Marbob Energy Corporation Application for Authorization to Inject concerning the Fren Oil Company Com. No. 21 located at 560' FSL and 3350' FEL in Section 19 of Township 17 South, Range 31 East in Eddy County, New Mexico.*

*Application is made pursuant to Rule 701D of the Division Rules and Regulations for Administrative Approval for Disposal into the Devonian Formation which is nonproductive of oil or gas within a radius of one half mile from the proposed disposal well. There were no fresh water wells found in the area of review. Waters to be disposed of will consist of produced waters from the Seven Rivers, Grayburg, San Andres, and Yeso Formations.*

*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 mailed to each leasehold operator within one half mile of the well. Please advise me as to your requirements for copies of legal notice, notice to leasehold operators, etc.*

***Marbob Energy Corporation respectfully request 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". The signature is fluid and cursive, with the first name "Dean" and last name "Chumbley" clearly distinguishable.

***Dean Chumbley  
Land Department***

***DC/mm  
Enclosures***

**BEFORE THE NEW MEXICO OIL CONSERVATION DIVISION  
APPLICATION FOR ADMINISTRATIVE APPROVAL  
MARBOB ENERGY CORPORATION  
APPLICATION FOR AUTHORIZATION TO INJECT  
THE  
FREN OIL COMPANY COM. #21**

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**APPLICATION FOR AUTHORIZATION TO INJECT  
MARBOB ENERGY CORPORATION  
FREN OIL COMPANY COM #21**

***III: Injection Well Data***

1. ***Proposed Rate of Injection:***
  - A. ***Average daily rate of injection: 2,000 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 12,275 feet, or 2455 psi.***
4. ***Source of Injection Water:***

***Source of disposal water is Seven Rivers, Grayburg, San Andres, and Yeso wells located in Sections 15, 22, and 23 of Township 17 South, Range 30 East and wells located in Sections 17, 18, 19, and 20 of Township 17 South, Range 31 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 one half mile of the proposed well. The only available water analysis from this zone is from a drill stem test revealed Chlorides at 37,000 ppm. Copy of test is attached.***

**VIII. GEOLOGIC DATA**

**A. Injection Zone**

1. ***Name: Devonian***
2. ***Lithology: Dolomite***

3. Thickness: ± 500'

4. Depth: ± 12,275'

B. Water Compatibility: *Sample results attached*

C. Fresh Water Aquifers: *None known in this area*

***IX. PROPOSED CONVERSION/STIMULATION PROGRAM***

*Move in and rig up pulling unit, kill well via tubing with 2% KCL H<sub>2</sub>O, nipple down tree and nipple up blow out preventer's, packer at 11,050 feet, baker model "N" perm. Pull seal assembly out of baker model "N" perm packer and trip out of hole with 2 7/8" tubing. Pick up mill (with packer picker) and trip in hole and mill over packer at 11,050 feet, trip out of hole and lay down mill and packer, make 6 1/8" bit and scraper run to 11,500 feet. Trip in hole with tubing set cement retainer and set same at 11,100 feet, establish rate in perms at 11,142 - 11,218 feet and squeeze with Halliburton. Trip in hole with 6 1/8" bit and collars and drill out squeeze, test squeeze and 7" casing to 750#, if squeeze and casing hold, then drill out cast iron bridge plug at 11,500 feet, clean out well to total depth at 12,299 feet. Trip in hole with RTTS and set same at 11,500 feet (+/-), swab test devonian and take sample of devonian H<sub>2</sub>O, rig up Halliburton and establish injection rate. Possibly drill approximately 100 feet of additional devonian formation. Trip in hole with PC tubing and packer, set packer at 12,250 (+/-), put well on disposal. If necessary, treat with 1500 gallons of 15% NEFE acid.*

***X. LOGGING DATA***

*Logs for these wells have been filed with the Division.*

***XI. FRESH WATER ANALYSIS***

*No fresh water wells produce within one mile of the proposed disposal well.*

***XIII. 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 Artesia Daily Press, Artesia, New Mexico.*

**APPLICATION FOR AUTHORIZATION TO INJECT**

- I. PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage  
Application qualifies for administrative approval? Yes No
- II. OPERATOR: Marbob Energy Corporation  
ADDRESS: Post Office Box 227, Artesia, New Mexico 88211-0227  
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 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: Raye Miller TITLE: Attorney-in-Fact  
SIGNATURE: Raye Miller DATE: 10/9/98
- \* 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

### 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**

Current Well Status

OPERATOR: Marbob Energy Corporation

WELL NAME &amp; NUMBER: Fren Oil Company Com #21

WELL LOCATION: 560' FSL and 3350' FEL

UNIT LETTER N SECTION 19 TOWNSHIP 17S RANGE 31E

FOOTAGE LOCATION

WELL CONSTRUCTION DATA

**WELLBORE SCHEMATIC****Surface Casing**

Marbob Energy

Fren Com. 21

560' FSL 3350' FEL

Sec 19 - 17S - 31E

Eddy Co., NM

TOC - circulated  
13 3/8" @ 369'  
Cmtd w/ 300sxs

Hole Size: 17 1/2" Casing Size: 13 3/8" @ 369'

Cemented with: 300 sx. or ft<sup>3</sup>

Top of Cement: Surf Method Determined: Circ

**Intermediate Casing**TOC - circulated  
9 5/8" @ 3210'  
Cmtd w/ 600sxs

Hole Size: 12 1/2" Casing Size: 9 5/8" @ 3210'

Cemented with: 600 sx. or ft<sup>3</sup>

Top of Cement: Surf Method Determined: Circ

**Production Casing**Abo Perfs  
6944-6996  
SQZD w/ 200sxs

Hole Size: 8 1/2" Casing Size: 7"

Cemented with: 525 sx. or ft<sup>3</sup>

Top of Cement: 5394' Method Determined: E-Log

2" EUE Tbg  
At 11,080'

Total Depth: 12,275

Baker N Model Pkr  
Set @ 11,050**Injection Interval**TOC 5394'  
CBL

12,275 feet to 12,299' Open Hole

7" @ 12,275'  
Cmtd w/ 525sxs

(Perforated or Open Hole; indicate which)

TD 12,289'



# INJECTION WELL DATA SHEET

Tubing Size: 3 1/2" Lining Material: P.C.

Type of Packer: Halliburton Perma-Latch P.C.

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
2. Name of the Injection Formation: Devonian
3. Name of Field or Pool (if applicable): Cedar Lake
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. (6944-6996) Squeezed 100 sks CL "C" + .6% Halad - 9 + 100 sks CL "C" + 2% CaCl
5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Above Morrow 11,142 - 11,218'  
Below Fusselman 13,000' ?

**APPLICATION FOR AUTHORIZATION TO INJECT  
MARBOB ENERGY CORPORATION  
FREN OIL COMPANY COM #21  
C-108 XII**

**AFFIRMATIVE STATEMENT**

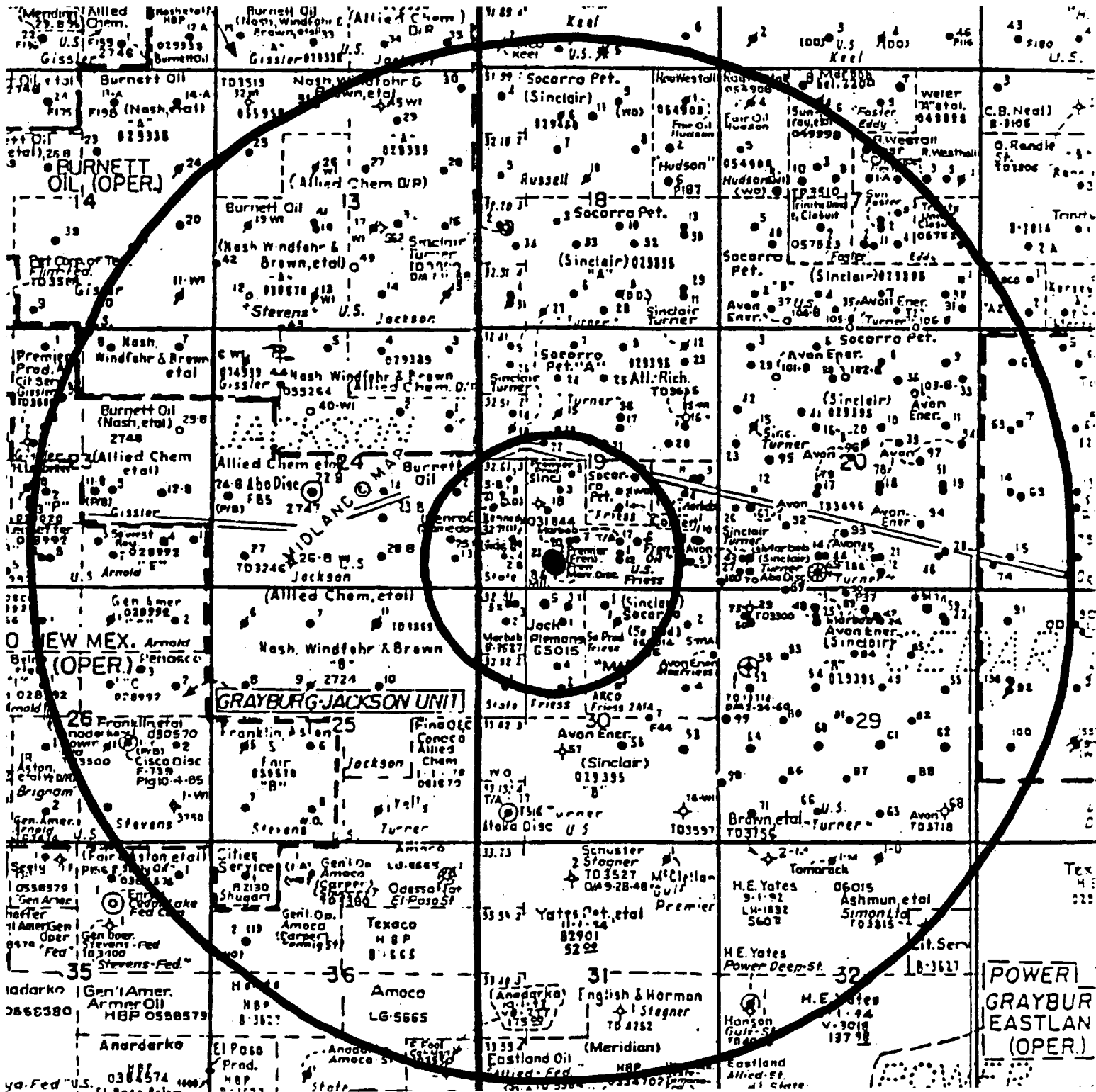
*I have examined all geologic and engineering data available for the Cedar Lake field and find no evidence of open faults and other hydrologic connection between the disposal zone and any underground drinking water sources.*

Name: Martin Joyce

Date: October 8, 1998

Signature: 

Title: Geologist



Attachment V  
 Map showing two mile and one-half mile  
 area of review  
 Marbob Energy Corporation  
 Fren Oil Company Com. # 21  
 560' FSL & 3350' FEL  
 Sec. 19 - T17S - R31E  
 Eddy County, New Mexico

LI

Unichem International

707 North Leech

P.O.Box 1499

Hobbs, New Mexico 88240

Company : Marbob - Premier Prod

Date : 10-06-1998

Location: D.H. Parke "A" - Battery (on 10-05-1998)

Specific Gravity: 1.130  
Total Dissolved Solids: 182102  
pH: 6.46  
Resistivity: 20.000 ohms @ 68[F]  
IONIC STRENGTH: 3.254

CATIONS:		me/liter	mg/liter
Calcium	(Ca+2)	144	2880
Magnesium	(Mg+2)	52.0	632
Sodium	(Na+1)	2910	67000
Iron (total)	(Fe+2)	0.002	0.050

ANIONS:		me/liter	mg/liter
Bicarbonate	(HCO <sub>3</sub> -1)	13.0	793
Carbonate	(CO <sub>3</sub> -2)	0	0
Hydroxide	(OH-1)	0	0
Sulfate	(SO <sub>4</sub> -2)	79.1	3800
Chloride	(Cl-1)	3020	107000

SCALING INDEX (positive value indicates scale)

Temperature		Calcium Carbonate	Calcium Sulfate
86 [F]	30 [C]	0.58	-4.0
104 [F]	40 [C]	1.2	-3.2
122 [F]	50 [C]	1.5	-3.2
140 [F]	60 [C]	1.8	-3.2
168 [F]	76 [C]	2.4	-3.7
176 [F]	80 [C]	2.6	-3.7

Comments:

cc: Jay Brown  
Bill Polk

LI

LI

Unichem International

707 North Leech

P.O.Box 1499

Hobbs, New Mexico 88240

Company : Marbob

Date : 10-06-1998

Location: Cedar Lake Fed - Battery (on 10-05-1998)

Specific Gravity:	Sample 1
Total Dissolved Solids:	1.154
pH:	216246
Resistivity:	5.81
IONIC STRENGTH:	20.000 ohms @ 68[F]
	4.027

CATIONS:		me/liter	mg/liter
Calcium	(Ca+2)	432	8640
Magnesium	(Mg+2)	112	1360
Sodium	(Na+1)	3190	73300
Iron (total)	(Fe+2)	0.004	0.120

ANIONS:			
Bicarbonate	(HCO <sub>3</sub> -1)	5.20	317
Carbonate	(CO <sub>3</sub> -2)	0	0
Hydroxide	(OH-1)	0	0
Sulfate	(SO <sub>4</sub> -2)	33.3	1600
Chloride	(Cl-1)	3700	131000

SCALING INDEX (positive value indicates scale)

Temperature		Calcium Carbonate	Calcium Sulfate
86 [F]	30 [C]	0.35	6.3
104 [F]	40 [C]	0.99	6.2
122 [F]	50 [C]	1.3	6.2
140 [F]	60 [C]	1.6	6.2
168 [F]	76 [C]	2.2	5.5
176 [F]	80 [C]	2.3	5.5

Comments:

cc: Bill Polk  
Jay Brown

LI

LI

Unichem International

707 North Leech

P.O.Box 1499

Hobbs, New Mexico 88240

Company : Marbob

Date : 10-06-1998

Location: Lee Federal - Battery (on 10-05-1998)

Specific Gravity:	Sample 1
Total Dissolved Solids:	1.154
pH:	216247
Resistivity:	5.92
IONIC STRENGTH:	20.000 ohms @ 68[F]
	3.878

CATIONS:		me/liter	mg/liter
Calcium	(Ca+2)	244	4880
Magnesium	(Mg+2)	36.0	437
Sodium	(Na+1)	3420	78700
Iron (total)	(Fe+2)	0.110	3.06

ANIONS:			
Bicarbonate	(HCO <sub>3</sub> -1)	8.60	525
Carbonate	(CO <sub>3</sub> -2)	0	0
Hydroxide	(OH-1)	0	0
Sulfate	(SO <sub>4</sub> -2)	56.2	2700
Chloride	(Cl-1)	3640	129000

SCALING INDEX (positive value indicates scale)

Temperature		Calcium Carbonate	Calcium Sulfate
86[F]	30[C]	0.36	6.8
104[F]	40[C]	1.00	6.9
122[F]	50[C]	1.3	6.9
140[F]	60[C]	1.6	6.9
168[F]	76[C]	2.2	5.9
176[F]	80[C]	2.4	5.9

Comments:

cc: Bill Polk

Jay Brown

LI

LI

Unichem International

707 North Leech

P.O.Box 1499

Hobbs, New Mexico 88240

Company : Marbob

Date : 10-06-1998

Location: Randy Federal - Battery (on 10-05-1998)

Specific Gravity: 1.147  
Total Dissolved Solids: 205424  
pH: 6.50  
Resistivity: 20.000 ohms @ 68[F]  
IONIC STRENGTH: 3.650

CATIONS:		me/liter	mg/liter
Calcium	(Ca+2)	124	2480
Magnesium	(Mg+2)	80.0	972
Sodium	(Na+1)	3320	76300
Iron (total)	(Fe+2)	0.376	10.5

ANIONS:			
Bicarbonate	(HCO <sub>3</sub> -1)	13.0	793
Carbonate	(CO <sub>3</sub> -2)	0	0
Hydroxide	(OH-1)	0	0
Sulfate	(SO <sub>4</sub> -2)	39.6	1900
Chloride	(Cl-1)	3470	123000

SCALING INDEX (positive value indicates scale)

Temperature		Calcium Carbonate	Calcium Sulfate
86[F]	30[C]	0.72	-36
104[F]	40[C]	1.4	-35
122[F]	50[C]	1.7	-35
140[F]	60[C]	2.0	-35
168[F]	76[C]	2.5	-36
176[F]	80[C]	2.7	-36

Comments:

cc: Bill Polk

Jay Brown

LI

No. 7 (Devonian, loss circ. @ T.D.) 12275-299. no initial shut-in. Open 90", opened with strong blow, decreased throughout and died in 60". Recovered 2,000 WCM + 8,732' salt water plus 150' salt water below sub. 90" FSI 5122, FP 3652-5029-5122, HP 5871-5825 chlorides: Top recovery 9,000 ppm, middle 22,000 ppm, bottom 37,000 ppm, pit 3,000 ppm.

**FORMATION TOPS: (all electric logs except Devonian)**

Rustler	340	Cisco Lime	9230
Yates	1430	Strawn Lime	10376
Queen	2393	Bend	10620
San Andres	3205	Morrow Lime	10975
Glorietta	4730	Chester	11554
Abo Grn. Sh.	6914	Lower Miss. Lm.	11688
Abo Reef	6920	Woodford	12219
Wolfcamp Lime	8120	Devonian	12281

**LITHOLOGY:**

0	-	340	Red beds, sm. thin sands
340	-	1430	Salt, anhy., gyp., sm. red beds
1430	-	2800	Dolorhite, red & gry. f.g. sd & red sh. anhy
2800	-	3205	Dolorhite with thin gry f.g. sd. zones
3205	-	4730	Dolorhite
4730	-	6914	Predom. dirty brn to blk. shly, chty, lime
6914	-	6920	Green shale
6920	-	7300	Reef dolorhite
7300	-	8120	Light colored anhy'tic dolorhite
8120	-	8950	Predom. lime with thin zones of dolo. & sh.
8950	-	10375	Alternating gry. to blk. calc. sh. & lime zones, some chert, more shale than lime.
10375	-	10620	Predom. lime, sdy, sl. chty, sm. gzt.'tic sd.
10620	-	11554	Predom. gry. to blk. sh. with few thin sd. and lime zones
11554	-	11688	Lime at top and predom. sh. at bottom
11688	-	12219	Solid lime, cherty in upper half
12219	-	12281	Brn. to blk. sh.
12281	-	12299	Porous white dolorhite



**ARTESIA DAILY PRESS**  
**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 Fren Oil Company Com. No. 21 is located 560' FSL and 3350' FEL, Section 19, Township 17 South, Range 31 East, Eddy County, New Mexico. Disposal water will be sourced from area wells producing from the Seven Rivers, Grayburg, San Andres, and Yeso formations. The disposal water will be injected into the Devonian formation at a depth 12,275' - 12,299'. A maximum surface pressure of 2455 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 Raye Miller at Marbob Energy Corporation, Post Office Box 227, Artesia, New Mexico 88211-0227 or call 505/748-3303.

Published in the Artesia Daily Press, Artesia, New Mexico  
~~October~~ 11, 13, 14, 1998.



**marbob**  
energy corporation

October 8, 1998

Mr. Joe Lopez  
New Mexico State Land Office  
Commissioner of Public Lands  
Post Office Box 1148  
Santa Fe, New Mexico 87504

RE: Conversion to Disposal Well - Fren Oil Company Com. #21  
560' FSL and 3350' FEL - Section 19-17S-31E  
Eddy County, New Mexico

Gentlemen:

Enclosed for your review is a copy of Marbob Energy Corporation's application for converting the Fren Oil Company Com. #21 well into a produced water disposal well.

As a requirement of the New Mexico Oil Conservation Division, we are required to notify any offset operators, and surface and minerals owners of our proposal to convert this well into a disposal well. If you have any objections, you must notify the Oil Conservation Division in 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 one copy to Marbob.

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

Sincerely,

Dean Chumbley  
Land Department

DC/mm  
Enclosures

New Mexico State Land Office has no  
objection to the proposed disposal well:

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



**marbob**  
energy corporation

October 8, 1998

*Burlington Resources Oil and Gas  
Post Office Box 51810  
Midland, Texas 79710-1810*

**RE:   Conversion to Disposal Well - Fren Oil Company Com. #21  
560' FSL and 3350' FEL - Section 19-17S-31E  
Eddy County, New Mexico**

**Gentlemen:**

*Enclosed for your review is a copy of Marbob Energy Corporation's application for converting the Fren Oil Company Com. #21 well into a produced water disposal well.*

*As a requirement of the New Mexico Oil Conservation Division, we are required to notify any offset operators, and surface and minerals owners of our proposal to convert this well into a disposal well. If you have any objections, you must notify the Oil Conservation Division in 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 one copy to Marbob.*

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

*Sincerely,*

**Dean Chumbley  
Land Department**

**DC/mm  
Enclosures**

***Burlington Resources Oil & Gas has no  
objection to the proposed disposal well:***

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



**marbob**  
energy corporation

October 8, 1998

*Ralph M. Randel Trust  
c/o Bank One Trust Department  
500 Throckmorton Street  
Fort Worth, Texas 76102*

*RE: Conversion to Disposal Well - Fren Oil Company Com. #21  
560' FSL and 3350' FEL - Section 19-17S-31E  
Eddy County, New Mexico*

*Gentlemen:*

*Enclosed for your review is a copy of Marbob Energy Corporation's application for converting the Fren Oil Company Com. #21 well into a produced water disposal well.*

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

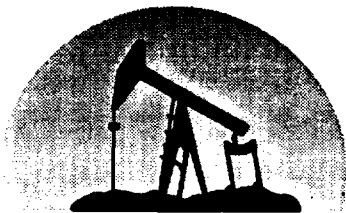
*Sincerely,*

*Dean Chumbley  
Land Department*

*DC/mm  
Enclosures*

*Ralph M. Randel Trust has no objection  
to the proposed disposal well:*

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



**marbob**  
energy corporation

October 8, 1998

*Mizel Resources  
5801 East 41<sup>st</sup>, Suite 104  
Tulsa, Oklahoma 74135*

**RE:   Conversion to Disposal Well - Fren Oil Company Com. #21  
560' FSL and 3350' FEL - Section 19-17S-31E  
Eddy County, New Mexico**

**Gentlemen:**

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

Sincerely,

Dean Chumbley  
Land Department

DC/mm  
Enclosures

*Mizel Resources has no objection  
to the proposed disposal well:*

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



**marbob**  
energy corporation

October 8, 1998

*Katherine Ariel Johnston Barger  
23 Wanda Way  
Martinez, California 94553*

**RE:   Conversion to Disposal Well - Fren Oil Company Com. #21  
560' FSL and 3350' FEL - Section 19-17S-31E  
Eddy County, New Mexico**

**Gentlemen:**

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

*Sincerely,*

**Dean Chumbley  
Land Department**

**DC/mm  
Enclosures**

***Katherine Ariel Johnston Barger has no  
objection to the proposed disposal well:***

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



**marbob**  
energy corporation

October 8, 1998

*Premier Oil and Gas, Inc.  
Post Office Box 1246  
Artesia, New Mexico 88211-1246*

**RE: Conversion to Disposal Well - Fren Oil Company Com. #21  
560' FSL and 3350' FEL - Section 19-17S-31E  
Eddy County, New Mexico**


**Gentlemen:**

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

Sincerely,

  
Dean Chumbley  
Land Department

DC/mm  
Enclosures

*Premier Oil & Gas, Inc. has no objection  
to the proposed disposal well:*

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



**marbob**  
energy corporation

October 8, 1998

*Arco Permian  
Post Office Box 1610  
Midland, Texas 79702*

**RE:   Conversion to Disposal Well - Fren Oil Company Com. #21  
560' FSL and 3350' FEL - Section 19-17S-31E  
Eddy County, New Mexico**

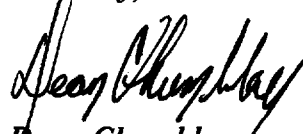
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*Thank you for your cooperation in this matter. Do not hesitate to contact us if you have any questions concerning this matter.*

*Sincerely,*

  
Dean Chumbley  
Land Department

*DC/mm  
Enclosures*

*Arco Permian has no objection  
to the proposed disposal well:*

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





**marbob**  
energy corporation

October 8, 1998

*Devon Energy Corporation  
20 North Broadway, Suite 1500  
Oklahoma City, Oklahoma 73102*

**RE:    *Conversion to Disposal Well - Fren Oil Company Com. #21  
560' FSL and 3350' FEL - Section 19-17S-31E  
Eddy County, New Mexico***

**Gentlemen:**

*Enclosed for your review is a copy of Marbob Energy Corporation's application for converting the Fren Oil Company Com. #21 well into a produced water disposal well.*

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

*Sincerely,*

*Dean Chumbley  
Land Department*

*DC/mm  
Enclosures*

*Devon Energy Corporation has no  
objection to the proposed disposal well:*

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



**marbob**  
energy corporation

October 8, 1998

*Mack Energy Corporation  
Post Office Box 960  
Artesia, New Mexico 88211-0960*

*RE: Conversion to Disposal Well - Fren Oil Company Com. #21  
560' FSL and 3350' FEL - Section 19-17S-31E  
Eddy County, New Mexico*

*Gentlemen:*

*Enclosed for your review is a copy of Marbob Energy Corporation's application for converting the Fren Oil Company Com. #21 well into a produced water disposal well.*

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

*Sincerely,*

*Dean Chumbley  
Land Department*

*DC/mm  
Enclosures*

*Mack Energy Corporation has no  
objection to the proposed disposal well:*

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



**marbob**  
energy corporation

October 8, 1998

*Burnett Oil Company, Inc.  
801 Cherry Street, Suite 1500  
Fort Worth, Texas 76102-6869*

**RE:   *Conversion to Disposal Well - Fren Oil Company Com. #21  
560' FSL and 3350' FEL - Section 19-17S-31E  
Eddy County, New Mexico***

**Gentlemen:**

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

*Sincerely,*

*Dean Chumbley  
Land Department*

*DC/mm  
Enclosures*

*Burnett Oil Company has no objection  
to the proposed disposal well:*

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



**marbob**  
energy corporation

October 8, 1998

Glen Plemons  
Post Office Box 113  
Lovington, New Mexico 88261-0113

**RE: Conversion to Disposal Well - Fren Oil Company Com. #21  
560' FSL and 3350' FEL - Section 19-17S-31E  
Eddy County, New Mexico**

**Gentlemen:**

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

Sincerely,

Dean Chumbley  
Land Department

DC/mm  
Enclosures

*Glen Plemons has no objection  
to the proposed disposal well:*

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



**marbob**  
energy corporation

October 8, 1998

*Enron Oil & Gas  
Post Office Box 2267  
Midland, Texas 79705*

**RE:   *Conversion to Disposal Well - Fren Oil Company Com. #21  
560' FSL and 3350' FEL - Section 19-17S-31E  
Eddy County, New Mexico***

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*Sincerely,*

**Dean Chumbley  
Land Department**

**DC/mm  
Enclosures**

***Enron Oil & Gas has no objection  
to the proposed disposal well:***

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



**marbob**  
energy corporation

October 8, 1998

*Bureau of Land Management  
2909 West Second Street  
Roswell, New Mexico 88201*

**RE:    *Conversion to Disposal Well - Fren Oil Company Com. #21  
560' FSL and 3350' FEL - Section 19-17S-31E  
Eddy County, New Mexico***

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

Sincerely,

Dean Chumbley  
Land Department

DC/mm  
Enclosures

***Bureau of Land Management has no  
objection to the proposed disposal well:***

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



**marbob**  
energy corporation

October 8, 1998

*Williams & Son Cattle Company  
Post Office Box 30  
Maljamar, New Mexico 88264*

**RE:   *Conversion to Disposal Well - Fren Oil Company Com. #21  
560' FSL and 3350' FEL - Section 19-17S-31E  
Eddy County, New Mexico***

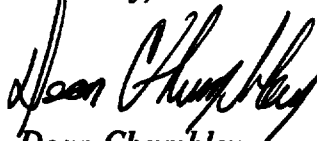
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**Sincerely,**

  
**Dean Chumbley  
Land Department**

**DC/mm  
Enclosures**

***Williams & Son Cattle Company has no objection to the proposed disposal well:***

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

**marbob**

energy corporation

## Facsimile Cover Sheet

date 10-29-98to: BEN STONE w/ NMCDfax #: 505 827 1389number of pages including cover sheet : (2)

if you trouble receiving this fax, please contact:

phone 505/748-3303

Fax 505/746-2523

comments:

FOLLOWING IS THE AFFIDAVIT OF PUBLICATION  
YOU NEEDED.  
LET US KNOW IF YOU NEED ANYTHING FURTHER.

THANKS

DEAN CHUMBLEY

MARBOB ENERGY



# Affidavit of Publication

NO. 16377

STATE OF NEW MEXICO

County of Eddy

Gary D. Scott being duly

sworn, says: That he is the Publisher of The  
Artesia Daily Press, a daily newspaper of general  
circulation, published in English at Artesia, said county  
and county and state, and that the here to 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  
3 consecutive weeks/days on the same  
day as follows:

First Publication      October      11      1998

Second Publication      October      13      1998

Third Publication      October      14      1998

Fourth Publication

Subscribed and sworn to before me this

14th day of October 1998

Barbara B. Bess  
Notary Public, Eddy County, New Mexico

My Commission expires September 23, 1999

# Copy of Publication:

## LEGAL NOTICE

Mariboh Energy Corporation, Post Office Box 227, Artesia, New Mexico 88211-0227 has filed ~~Form O-408~~ application for Authorization to Inject with the New Mexico Oil Conservation Division seeking administrative approval for salt water disposal well. The proposed well, the Fren Oil company Com. NO. 21 is located 560' FSL and 3350' FEL, Section 19, Township 17 South, Range 31 East, Eddy County, New Mexico. Disposal water will be sourced from area wells producing from the Seven Rivers, Grayburg, San Andres, and Yeso formations. The disposal water will be injected into the Devonian formation at a depth 12,375' - 12,299'. A maximum surface pressure of 2455 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 Raye Miller at Mariboh Energy Corporation, Post Office Box 227, Artesia, New Mexico 88211-0227 or call 505-748-3303. Published in the Artesia Daily Press, Artesia, New Mexico, October 11, 13, 14, 1998.

Legal 16377