

UNITED STATES

DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTN.M. LEA  
P.O. Box

FORM APPROVED

Budget Bureau No. 1004-0135

Expires: March 31, 1993

## SUNDRY NOTICES AND REPORTS ON WELLS Hobbs, NM 88241

N.M. 14214

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT--" for such proposals

## SUBMIT IN TRIPLICATE

Type of Well ☐ Oil Well ☒ Gas Well ☐ Other

Name of Operator

Guy Petroleum Management Co.

Address and Telephone No.

P.O. Box 140907, Irving Tx. 75014-0907, 972-401-3111

Location of Well (Footage, Sec., T., R., M., or Survey Description)

NE/4SW, Sec. 4, Twp. 25S, Rge. 37 E

5. Lease Designation and Serial No.

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Wells Federal 12 &amp; 13

9. API Well No.

10. Field and Pool, or Exploratory Area

Langlie Mattix 7 Rivers

11. County or Parish, State

Lea County, N.M.

CHECK APPROPRIATE BOX (s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

## TYPE OF SUBMISSION

- ☐
- Notice of Intent
- 
- ☐
- Subsequent Report
- 
- ☐
- Final Abandonment Notice

## TYPE OF ACTION

- ☐
- Abandonment
- 
- ☐
- Recompletion
- 
- ☐
- Plugging Back
- 
- ☐
- Casing Repair
- 
- ☐
- Altering Casing
- 
- ☒
- Other Disposal Method Info.

- ☐
- Change of Plans
- 
- ☐
- New Construction
- 
- ☐
- Non-Routine Fracturing
- 
- ☐
- Water Shut-Off
- 
- ☐
- Conversion to Injection
- 
- ☐
- Dispose Water
- 
- (Note: Report results of multiple completion on Well Completion or Recompletion Report and log form)

Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If wells directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

## Onshore Oil &amp; Gas Order # 7 Information.

Name of formations, Langlie Mattix-7RV-Queen-GBC.

Wells Federal 12 water production (70 BBLS/Day), Well Federal 13 (80 BBLS/DAY).

Water Analysis ( ATTACHED).

Water is stored in a Steel 300 BBI Tank, ONLY IN EMERGENCY.

Water is moved to the Rice Disposal by the Pressure on the facility Heater Treater.

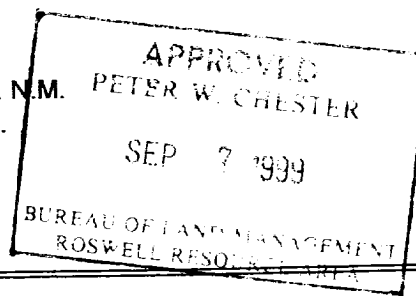
Rice Operating Co. Takes water off the pertinent Leases

A. Well name, Henry Well # 2

B. Injection well, Covered by Rule 701B, SWD-349

C. Well Location, N-Sec. 26, Twp. 25S, Rge. 37E. Lea, Co. N.M.

Attached, a copy or the underfroung Injection Control Permit.

RECEIVED  
1999 AUG -4 A 10:01

I hereby certify that the foregoing is true and correct

Signed Reggie Bester Title Production SupervisorDate 3-Aug-99

Space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

Conditions of approval, if any:

8 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*See Instructions on Reverse Side

OPTIONAL FORM 98 (7-90)

## FAX TRANSMITTAL

# of pages 1

To <i>Ben Harris</i>	From <i>Kathy - BLM</i>
Super Agency	Phone #
Fax # <i>972-443-6470</i>	Fax #
<small>NSN 7540 01 517 7868 5009.101</small>	

GENERAL SERVICES ADMINISTRATION

ATTACHMENT to Incident of Noncompliance number \_\_\_\_\_

The following information is needed before your disposal of produced water can be approved, Onshore Oil & Gas Order # 7.

- 1.- Name(s) of all formation(s) producing water on the lease.
- 2.- Amount of water produced from all formations in barrels per day.
- 3.- A CURRENT water analysis of produced water from all zones showing at least the total dissolved solids, ph, and the concentrations of chlorides and sulfates.
- 4.- How water is stored on the lease.
- 5.- How water is moved to the disposal facility.
- 6.- Identify the Disposal Facility by :
  - A.- Operators name.
  - B.- Well name. *OR OGD PERMIT.*
  - C.- Well type and well number. (SWDW) (WIW)
  - D.- Location by 1/4 1/4, section, township, & range.
- 7.- A copy of the Underground Injection Control Permit - issued for the injection well by the Environmental Protection Agency or New Mexico Oil Conservation Division where the State has achieved primacy.

Submit all the above required information, to this office, on a Sundry Notice form 3160-5 in triplicate within the required time frame.

# CAPITAN CHEMICAL WATER ANALYSIS REPORT

Company : GRUY PETROLEUM MANAGEMENT  
Lease Name : WELLS  
Well Number : # 13  
Location :

Date Sampled : 8/3/99  
Capitan Rep. : JOE HUGHES  
Company Rep. :

## ANALYSIS

1. pH	6.03	
2. Specific Gravity @ 60/60 F.	1.037	
3. CaCO <sub>3</sub> Saturation Index @ 80 F.	-0.599	
@ 140 F.	+0.341	'Calcium Carbonate Scale Possible'

## Dissolved Gasses

4. Hydrogen Sulfide	350	PPM
5. Carbon Dioxide	180	PPM
6. Dissolved Oxygen	Not Determined	

## Cations

	mg/L	/	Eq. Wt.	=	MEQ/L
7. Calcium (Ca <sup>++</sup> )	1,350	/	20.1	=	67.16
8. Magnesium (Mg <sup>++</sup> )	1,154	/	12.2	=	94.61
9. Sodium (Na <sup>+</sup> ) Calculated	11,651	/	23.0	=	506.56
10. Barium (Ba <sup>++</sup> )	Not Determined	/	68.7	=	0.00

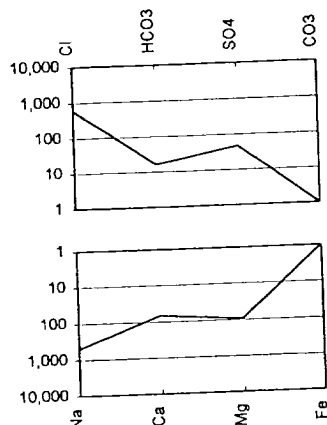
## Anions

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> )	974	/	61.1	=	15.93
14. Sulfate (SO <sub>4</sub> <sup>=</sup> )	2,282	/	48.8	=	46.76
15. Chloride (Cl <sup>-</sup> )	21,500	/	35.5	=	605.63

## Other

16. Soluble Iron (Fe)	3	/	18.2	=	0.16
17. Total Dissolved Solids	38,911				
18. Total Hardness As CaCO <sub>3</sub>	8,125				
19. Calcium Sulfate Solubility @ 90 F.	4,566				
20. Resistivity (Measured)	0.220	Ohm/Meters	@ 86	Degrees (F)	

Logarithmic Water Pattern



## PROBABLE MINERAL COMPOSITION

COMPOUND	Eq. Wt.	X	MEQ/L	=	mg/L
Ca(HCO <sub>3</sub> ) <sub>2</sub>	81.04	X	15.93	=	1,291
CaSO <sub>4</sub>	68.07	X	46.76	=	3,183
CaCl <sub>2</sub>	55.50	X	4.47	=	248
Mg(HCO <sub>3</sub> ) <sub>2</sub>	73.17	X	0.00	=	0
MgSO <sub>4</sub>	60.19	X	0.00	=	0
MgCl <sub>2</sub>	47.62	X	94.61	=	4,505
NaHCO <sub>3</sub>	84.00	X	0.00	=	0
NaSO <sub>4</sub>	71.03	X	0.00	=	0
NaCl	58.46	X	506.56	=	29,613

# CAPITAN CHEMICAL WATER ANALYSIS REPORT

Company : GRUY PETROLEUM MANAGEMENT  
Lease Name : WELLS  
Well Number : # 12  
Location :

Date Sampled : 8/3/99  
Capitan Rep. : JOE HUGHES  
Company Rep. :

## ANALYSIS

1. pH	6.12	
2. Specific Gravity @ 60/60 F.	1.045	
3. CaCO3 Saturation Index @ 80 F.	-0.613	
@ 140 F.	+0.327	'Calcium Carbonate Scale Possible'

## Dissolved Gasses

4. Hydrogen Sulfide	250	PPM
5. Carbon Dioxide	130	PPM
6. Dissolved Oxygen	Not Determined	

## Cations

	mg/L	/	Eq. Wt.	=	MEQ/L
7. Calcium (Ca++)	1,300	/	20.1	=	64.68
8. Magnesium (Mg++)	1,458	/	12.2	=	119.51
9. Sodium (Na+) Calculated	15,548	/	23.0	=	675.99
10. Barium (Ba++)	Not Determined	/	68.7	=	0.00

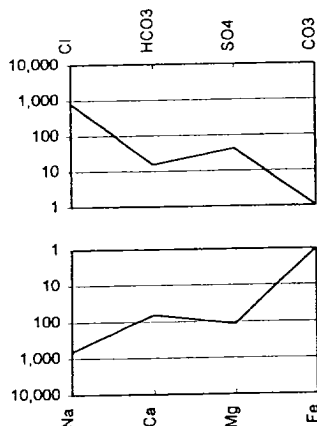
## Anions

11. Hydroxyl (OH-)	0	/	17.0	=	0.00
12. Carbonate (CO3=)	0	/	30.0	=	0.00
13. Bicarbonate (HCO3-)	913	/	61.1	=	14.94
14. Sulfate (SO4=)	2,070	/	48.8	=	42.42
15. Chloride (Cl-)	28,500	/	35.5	=	802.82

## Other

16. Soluble Iron (Fe)	4	/	18.2	=	0.22
17. Total Dissolved Solids	49,788				
18. Total Hardness As CaCO3	9,250				
19. Calcium Sulfate Solubility @ 90 F.	4,995				
20. Resistivity (Measured)	0.175	Ohm/Meters	@ 86	Degrees (F)	

Logarithmic Water Pattern



## PROBABLE MINERAL COMPOSITION

COMPOUND	Eq. Wt.	X	MEQ/L	=	mg/L
Ca(HCO3)2	81.04	X	14.94	=	1,210
CaSO4	68.07	X	42.42	=	2,887
CaCl2	55.50	X	7.32	=	406
Mg(HCO3)2	73.17	X	0.00	=	0
MgSO4	60.19	X	0.00	=	0
MgCl2	47.62	X	119.51	=	5,691
NaHCO3	84.00	X	0.00	=	0
NaSO4	71.03	X	0.00	=	0
NaCl	58.46	X	675.99	=	39,518

122 West Taylor, Hobbs, NM 88240  
Phone: (505)393-8174  
Fax: (505)397-1471

**RICE Operating Company**

# Fax

**To:** Reggie Reston, Gruy Petr.

**From:** Carolyn Doran Haynes

**Fax:** 393-9838

**Pages:** 8+cover

**Phone:**

**Date:** 07/23/99

**Re:** Disposal Orders for Justis SWD

**CC:**

☐ Urgent    ☒ For Review    ☐ Please Comment    ☐ Please Reply    ☐ Please Recycle

• **Comments:**

Mr. Reston:

At the Justis SWD System, there are three disposal wells. They are somewhat connected in sequence through the system to accommodate irregular water flow volumes and enhance capacity.

The Wells Federal lease most likely is disposed at SWD Well B-12.

Carlson Federal, Federal Carlson A and Federal Carlson leases most likely dispose at SWD Well N-26.

There is overflow capability from B-12 to N-26 and from N-26 to H-2.

Hence, here are all three Disposal Orders for the Justis SWD System.

If I can be of any further assistance, please call me at the above number.

Thank you,

Carolyn Doran Haynes, Ops. Engr.



STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT  
OIL CONSERVATION DIVISION

ORDER NO. SWD-349

GARREY CARRUTHERS  
GOVERNOR

POST OFFICE BOX 2088  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87504  
(505) 827-3800

## APPLICATION OF RICE ENGINEERING CORPORATION

ADMINISTRATIVE ORDER  
OF THE OIL CONSERVATION DIVISION

Under the provisions of Rule 701(B), Rice Engineering Corporation made application to the New Mexico Oil Conservation Division on July 5, 1988, for permission to complete for salt water is Henry Well No. 2, located in Unit N, of Section 26, Township 25 South, Range 37 East, NMPM, Lea County, New Mexico.

THE DIVISION DIRECTOR FINDS THAT:

- (1) The application has been duly filed under the provisions of Rule 701(B) of the Division Rules and Regulations.
- (2) Satisfactory information has been provided that all offset operators and surface owners have been duly notified; and
- (3) The applicant has presented satisfactory evidence that all requirements prescribed in Rule 701 will be met.
- (4) No objections have been received within the waiting period prescribed by said rule.

IT IS THEREFORE ORDERED THAT:

(1) The applicant herein, Rice Engineering Corporation is hereby authorized to complete its Henry Well No. 2 located in Unit N of Section 26, Township 25 South, Range 37 East, NMPM, Lea County, New Mexico, in such a manner as to permit the injection of salt water for disposal purposes into the San Andres and Glorieta formations at approximately 3500 feet to approximately 5000 feet through 3 1/2-inch plastic lined tubing set in a packer located at approximately 3450 feet.

IT IS FURTHER ORDERED THAT:

The operator shall take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the surface.

Order SWD-349

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Prior to commencing injection operations into the well, the casing shall be pressure tested from the surface to the packer setting depth to assure the integrity of said casing.

The casing-tubing annulus shall be loaded with an inert fluid and equipped with a pressure gauge at the surface or left open to the atmosphere to facilitate detection of leakage in the casing, tubing or packer.

The injection well or system shall be equipped with a pressure limiting device which will limit the wellhead pressure on the injection well to no more than 700 psi.

The Director of the Division may authorize an increase in injection pressure upon a proper showing by the operator of said well that such higher pressure will not result in migration of the injected fluid from the San Andres and Glorieta formations. Such proper showing shall consist of a valid step-rate test run in accordance with and acceptable to this office.

The operator shall notify the supervisor of the Hobbs district office of the Division of the date and time of the installation of disposal equipment and of the mechanical integrity test so that the same may be inspected and witnessed.

The operator shall immediately notify the supervisor of the Hobbs district office of the Division of the failure of the tubing, casing or packer in said well and shall take such steps as may be timely and necessary to correct such failure or leakage.

PROVIDED FURTHER THAT, jurisdiction of this cause is hereby retained by the Division for such further order or orders as any seem necessary or convenient for the prevention of waste and/or protection of correlative rights; upon failure of the operator to conduct operations in a manner which will ensure the protection of fresh water or in a manner inconsistent with the requirements set forth in this order, the Division may, after notice and hearing, terminate the injection authority granted herein.

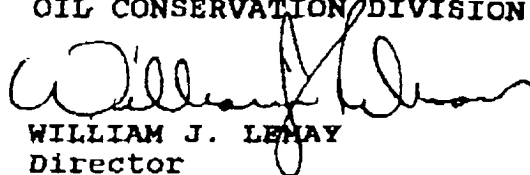
The operator shall submit monthly reports of the disposal operations in accordance with Rule 706 and 1120 of the Division Rules and Regulations.

Order SWD-349

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Approved at Santa Fe, New Mexico, on this 14th day of  
September, 1988.

STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION

  
WILLIAM J. LEMAY  
Director

S E A L

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SEP 14 1988

RICE ENGINEERING CORPORATION  
HOBBS, N.M.

TO	✓
SAH	✓
Gibson	✓
FILE	✓

BEFORE THE OIL CONSERVATION COMMISSION  
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING  
CALLED BY THE OIL CONSERVATION  
COMMISSION OF NEW MEXICO FOR  
THE PURPOSE OF CONSIDERING:

CASE No. 3845  
Order No. R-3499

APPLICATION OF RICE ENGINEERING  
& OPERATING, INC., FOR SALT WATER  
DISPOSAL, LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on August 21, 1968,  
at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 12th day of September, 1968, the Commission,  
a quorum being present, having considered the testimony, the record,  
and the recommendations of the Examiner, and being fully advised  
in the premises,

FINDS:

- (1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, Rice Engineering & Operating, Inc., is the owner and operator of the Justis SWD Well No. H-2 (formerly the Resler & Sheldon-Bette Sue Well No. 2), located in Unit H of Section 2, Township 26 South, Range 37 East, NMPM, Langlie-Mattix Pool, Lea County, New Mexico.
- (3) That the applicant proposes to utilize said well to dispose of produced salt water into the Grayburg, San Andres, and Glorieta formations, with injection into the open-hole interval from approximately 3540 feet to 5616 feet.
- (4) That the injection should be accomplished through 3 1/2-inch plastic-lined tubing; that the casing-tubing annulus should be filled with an inert fluid; and that a pressure gauge should

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CASE No. 3845

Order No. R-3499

be attached to the annulus or the annulus left open at the surface in order to determine leakage in the tubing or casing.

(5) That approval of the subject application will prevent the drilling of unnecessary wells and otherwise prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That the applicant, Rice Engineering & Operating, Inc., is hereby authorized to utilize its Justis SWD Well No. H-2 (formerly the Resler & Sheldon-Bette Sue Well No. 2), located in Unit H of Section 2, Township 26 South, Range 37 East, NMPM. Langlie-Mattix Pool, Lea County, New Mexico, to dispose of produced salt water into the Grayburg, San Andres, and Glorieta formations, injection to be accomplished through 3 1/2-inch tubing into the open-hole interval from approximately 3540 feet to 5616 feet;

PROVIDED HOWEVER, that prior to said utilization, the applicant shall cause additional cementing of the 5 1/2-inch casing set at 3540 feet sufficient to ensure the annular space is cemented from said casing shoe back into the 8 5/8-inch casing set at 916 feet;

PROVIDED FURTHER, that the tubing shall be plastic-lined; that the casing-tubing annulus shall be filled with an inert fluid; and that a pressure gauge shall be attached to the annulus or the annulus left open at the surface in order to determine leakage in the tubing or casing.

(2) That the applicant shall submit monthly reports of its disposal operations in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.

(3) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO  
OIL CONSERVATION COMMISSION

DAVID F. CARGO, Chairman

GUYTON B. HAYS, Member

S E A L

A. L. PORTER, Jr., Member & Secretary

esr/ **RECEIVED**

SEP 17 1968

11/11/76  
B-12

SUBJECT: SALT WATER DISPOSAL WELL

ORDER NO. SWD-179

THE APPLICATION OF RICE ENGINEERING  
AND OPERATING, INC., FOR A SALT  
WATER DISPOSAL WELL.

ADMINISTRATIVE ORDER  
OF THE OIL CONSERVATION COMMISSION

Under the provisions of Rule 701 (C) Rice Engineering and Operating, Inc., made application to the New Mexico Oil Conservation Commission on November 8, 1976, for permission to complete for salt water disposal the Texas Pacific Oil Co. N. E. Eaton Well No. 18 located in Unit B of Section 12, Township 25 South, Range 37 East, NMPM, Lea County, New Mexico.

The Secretary-Director finds:

1. That application has been duly filed under the provisions of Rule 701 (C) of the Commission Rules and Regulations;
2. That satisfactory information has been provided that all offset operators and surface owners have been duly notified; and
3. That the applicant has presented satisfactory evidence that all requirements prescribed in Rule 701 (C) will be met.
4. That no objections have been received within the waiting period prescribed by said rule.

IT IS THEREFORE ORDERED:

That the applicant herein, Rice Engineering and Operating, Inc., is hereby authorized to complete Texas Pacific Oil Co. N. E. Eaton Well No. 18 located in Unit B of Section 12, Township 25 South, Range 37 East, Lea County, New Mexico, in such a manner as to permit the injection of salt water for disposal purposes into the San Andres formation at approximately 4236 feet to approximately 4524 feet through 3 1/2 inch plastic lined tubing

Order No. SWD-179

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set in a packer located at approximately 4200 feet.

IT IS FURTHER ORDERED:

That the operator shall take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the surface.

That the casing-tubing annulus shall be loaded with an inert fluid and equipped with a pressure gauge at the surface or left open to the atmosphere to facilitate detection of leakage in the casing, tubing, or packer.

That water disposed of into this well will be by gravity flow, and in no event shall injection pressures exceed 850 pounds per square inch.

That the operator shall notify the supervisor of the Commission's Hobbs District Office before injection is commenced through said well.

That the operator shall immediately notify the supervisor of the Commission's Hobbs District Office of the failure of the tubing, casing, or packer in said well or the leakage of water from or around said well and shall take such steps as may be timely or necessary to correct such failure or leakage.

PROVIDED FURTHER:

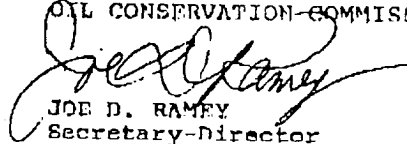
That jurisdiction of this cause is hereby retained by the Commission for such further order or orders as may seem necessary or convenient for the prevention of waste and/or protection of correlative rights; upon failure of applicant to comply with any requirement of this order after notice and hearing, the Commission may terminate the authority hereby granted in the interest of conservation. That applicant shall submit monthly reports of the disposal operation in accordance with Rule

ORDER NO. SWD-179  
-2-

704 and 1120 of the Commission Rules and Regulations.

APPROVED at Santa Fe, New Mexico, on this 30th day  
of November, 1976.

STATE OF NEW MEXICO  
OIL CONSERVATION COMMISSION



JOE D. RAMEY  
Secretary-Director

S E A L