os UNITEI	D STA?	FORM APPROVED
159) DEPARTMENT OF I	THE INTERIOR	Budget Bureau No. 1004-0135
BUREAU OF LA	ND MANAGEMENT N.M. Oil Cons.	Division Expires: March 31, 1993
	P.O. Box 1980	5. Lease Designation and Serial No.
SUNDRY NOTICES A	ND REPORTS ON WELLStobbs, NM 88241	N.M. 14214
to not use this form for proposals to drill	l or to deepen or reentry to a different reservoir.	6. If Indian, Allottee or Tribe Name
Use "APPLICATION FOR	R PERMIT" for such proposals	
SUBMIT II	NTRIPLICATE	7. If Unit or CA, Agreement Designation
* of Well Oil K Gas Well Well	Other	8. Well Name and No. Wells Federal 12 & 13 9. API Well No.
te of Operator		_
y Petroleum Management Co.		125-25246
ress and Telephone No.		10. Field and Pool, or Exploratory Area
Box 140907, Irving Tx. 75014-0907		Langlie Mattix 7 Rivers
ation of Well (Footage, Sec., T., R., M., or Survey Description	n)	11. County or Parish, State
3W, Sec. 4, Twp. 25S, Rge.37 E		Los Coupty, N.M.
	X (s) TO INDICATE NATURE OF NOTICE, R	Lea County, N.M.
	(s) TO INDICATE NATURE OF NOTICE, R	EPORT, OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF A	
Notice of Intent	Abandonment	Change of Plans
	Recompletion	New Construction
Subsequent Report	Plugging Back	Non-Routine Fracturing
	Casing Repair	Water Shut-Off
Final Abandonment Notice	Altering Casing	Conversion to Injection
	T Other Disposal Method Info.	Dispose Water
		(Note: Keport results of multiple completion on Well Completion of Recompletion Report and log form)
scribe Proposed or Completed Operations (Clearly state all p subsurface locations and measured and true vertical depths for	ertiment details, and give pertinent dates, including estimated date of starting	
	a makas an anks pamai u uis wor).	
Inshore Oil & Gas Order # 7 Inform	nation.	
ame of formations, Langlie Mattix-7		_
	BBLS/Day), Well Federal 13 (80 BBLS/DAY).
Vater Analysis (ATTACHED). Vater in stored in a Steel 300 BBI Tar		
	by the Pressure on the facility Heater Treater.	
ice Operating Co. Takes water off the	•	
. Well name, Henry Well # 2		A A A A A A A A A A A A A A A A A A A
. Injection well, Covered by Rule 70	1B, SWD-349	
ttached a copy or the underfround in	1B, SWD-349 S, Rge. 37E. Lea, Co N.M _{PETER} W. CHES njection Control Permit.	
	Joodon Comort China Ches	ST_{ER} $\exists \leq > \leq$
	UCP 7 100-	
	BUREAU OF	
ereby certify that the foregoing is true and correct	BUREAU OF LAND MANAG ROSWELL RESOURCE AN	Fine -
areby carmy last the foregoing is discand correct	Production Supervisor	REA 2 AVE 00
ned Jeggle Sestar	Title Production Supervisor	Date 3-Aug-99
space for Federal or State office use)		
write, it is a second second	1. Second	
ved by ions of approval, if any:	The	Date
U.S.C. Section 1001, makes it a crime for any person knowing onsitions as to any matter within its jurisdiction.	gly and willfully to make to any department or agency of the United States a	ny laise, licitious of haudilent statements
· · · · · · · · · · · · · · · · · · ·	*See Instructions on Reverse Side	

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FAX TRA	NSMITTA	AL.	# of pages =-]	
"Reno	tarria	~~ X	atty	- Bin
Superay		tione #	<u> </u>)
Fax 972-44	3-6970	11 F		
NEN 7540. 01 317 -7968	5099.101	ØENERAL	SERVICES ADMIN	NOITANTER

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 ba rels 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 OCD Permitt.
 - 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

ompany : GRUY PETROLEUM MANAGE	C	ate Sampled : 8/3 apitan Rep. : JO	/99 E HUGHËS
Case Marine	С	company Rep. :	
Vell Number : # 13			
ocation			
ANALYSIS	6.03		
1. pH	1.037		
2. Specific Gravity @ 60/60 F.	-0.599		
3 CaCO3 Saturation Index @ 80 F.		Calcium Carbor	nate Scale Possible
@ 140 F.	+0.341	Calcium Galery	
Dissolved Gasses	050	PPM	
4. Hydrogen Sulfide	350		
5. Carbon Dioxide	180	PPM	
6. Dissolved Oxygen	Not Determined		MEQ/L
Cations	mg/L	/ Eq. Wt. =	67.16
	1,350	/ 20.1 =	94.61
7. Calcium (Ca++)	1,154	/ 12.2 =	
8. Magnesium (Mg++)	11,651	/ 23.0 =	506.56
9. Sodium (Na+) Calculated	Not Determined	/ 68.7 =	0.00
10. Barium (Ba++)			
Anions	0	/ 17.0 =	0.00
11. Hydroxyl (OH-)	0	/ 30.0 =	0.00
12. Carbonate (CO3=)	974	/ 61.1 =	15.93
13. Bicarbonate (HCO3-)	2,282	/ 48.8 =	46.76
14. Sulfate (SO4=)	21,500	/ 35.5 =	605.63
15. Chloride (Cl-)	21,000	,	
Other	3	/ 18.2 =	0.16
16. Soluble Iron (Fe)		,	
17. Total Dissolved Solids	38,911		
18 Total Hardness As CaCO3	8,125		
19. Calcium Sulfate Solubility @ 90 F.	4,566	Ohm/Meters	@ 86 Degrees (F)
20. Resistivity (Measured)	0.220	Uninvierers	
ZU. Residency (means /			A AND A SITION

Logarithmic Water Pattern

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		OMPOSITIO	N	
En Wt.	X	MEQ/L	=	mg/L
	X	15.93	=	1,291
	• •		=	3,183
_			=	248
	<i>,</i> .	0.00	=	0
		0.00	=	0
		94.61	=	4,505
	x	0.00	=	0
-	x	0.00	=	0
58.46	X	506.56	=	29,613
	Eq. Wt. 81.04 68.07 55.50 73.17 60.19 47.62 84.00 71.03	Eq. Wt. X 81.04 X 68.07 X 55.50 X 73.17 X 60.19 X 47.62 X 84.00 X 71.03 X	Eq. Wt. X MEQ/L 81.04 X 15.93 68.07 X 46.76 55.50 X 4.47 73.17 X 0.00 60.19 X 0.00 47.62 X 94.61 84.00 X 0.00 71.03 X 0.00	81.04 X 15.93 = 68.07 X 46.76 = 55.50 X 4.47 = 73.17 X 0.00 = 60.19 X 0.00 = 47.62 X 94.61 = 84.00 X 0.00 = 71.03 X 0.00 =

...[.]

CAPITAN CHEMICAL WATER ANALYSIS REPORT

Company : GRUY PETROLEUM MANAG	EMENT	Date	Sampled	: 8/	3/99	-
Lease Name : WELLS		Сар	itan Rep.	: J(DE HUGHE	S
Well Number : # 12		Con	npany Rep	.:		
Non Namber						
Location						
ANALYSIS						
1. pH	6.12					
2. Specific Gravity @ 60/60 F.	1.045					
3. CaCO3 Saturation Index @ 80 F.	-0.613					Descible'
@ 140 F.	+0.327	'	Calcium C	arbo	nate Scale	POSSIDIE
Dissolved Gasses						
4. Hydrogen Sulfide	250		PPM			
5. Carbon Dioxide	130	F	PPM			
6. Dissolved Oxygen	Not Determined					
Cations	mg/L	1	Eq. Wt.	=	MEQ/L	
7. Calcium (Ca++)	1,300	1	20.1	=	64.68	
8. Magnesium (Mg++)	1,458	1	12.2	=	119.51	
9. Sodium (Na+) Calculated	15,548	- 1	23.0	=	675.99	
10. Barium (Ba++)	Not Determined	- 1	68.7	=	0.00	
Anions						
- 11. Hydroxyl (OH-)	0	1	17.0	=	0.00	
12. Carbonate (CO3=)	0	- 7	30.0	=	0.00	
13. Bicarbonate (HCO3-)	913	- 7	61.1	=	14.94	
13. Sulfate (SO4=)	2,070	- 1	48.8	=	42.42	
14. Sullate (304–) 15. Chloride (Cl-)	28,500	- 7	35.5	=	802.82	
		_				
Other 16. Soluble Iron (Fe)	4	1	18.2	=	0.22	
17. Total Dissolved Solids	49,788					
18. Total Hardness As CaCO3	9,250					
18. Total maturess As Cacco	4,995					
19. Calcium Sulfate Solubility @ 90 F.	0.175		Ohm/Mete	ers	@ 86	Degrees (F)
20. Resistivity (Measured)						

Logarithmic Water Pattern



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

122 West Taylor, Hobbs, NM 88240 Phone: (505)393-9174 Fax: (505)397-1471

RICE Operating Company

Fax

Tol	Rec	gie Reston, Gruy Pe	tr	From:	Carolyn Doran Hay	/nes
Fax	393	-9838		Pages:	8+cover	
Phone	Ľ			Date:	07/23/99	
Re:	Disp	oosal Orders for Just	s SWD	CC:		
🗋 Ung	ent	XX 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.

JL. - 23' 99 (FRI) 03:18 RICE OPERATING HOBBS

TEL: 505 397 1471 P. 002

STATE OF NEW MEXICO



ENERGY. MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

ORDER NO. SWD-349

GARREY CARRUTHERS GOVERNOR

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POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE NEW MEXICO 87504 (505) 827-5800

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, NMPH, 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 Page 2

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 Page 3

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

STATE OF NEW MEXICO OIL CONSERVATION/DIVISION WILLIAM J. LEMAY Director

SEAL



SEP 1 # 5

NCE ENGINERATION HOBBS, B.M.



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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:

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(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 1/2inch plastic-lined tubing; that the casing-tubing annulus should be filled with an inert fluid; and that a pressure gauge should

-2-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. Langlis-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 comenting 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.

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

That jurisdiction of this cause is retained for the (3) 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

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

SEAL

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RECEIVED

SFP 17 1968

SUBJECT: SALT WATER DISPOSAL WELL ORDER NO. 6WD-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. Enton 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; anď

3. That the applicant has presented satisfactory evidence that all requirements prescribed in Rule 701 (C) will be mat.

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 foot through 3 1/2 inch plastic lined tubing

Order No. SWD-179 -2-

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 050 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 woll 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 failurs of applicant to comply with any requirement of this order after notice and hearing, the Commission may terminate the authority heroby granted in the interest of conservation. That applicant shall submit monthly reports of the disposal operation in accordance with Rule

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ORDER NO. SWI -2-	-179			•
704 and 1120	of the Commis	ssion Rules and	•	
Approv	ED at Santa B	'e, New Mexico,	on this 30th day	,
of November,	1976,	STATE OF NEW OL CONSERVA JOE D. RAMEY Secretary-Din	TION-BOMMISSION	
SEAL (
\$ 				