### RICE Engineering Corporation

122 WEST TAYLOR

TELEPHONE (505) 393-9174

HOBBS. NEW MEXICO 88240 August 3, 1993 OL CONSER. A DIVISION RESERVED

193 NU: 5 AM 9 53

Attn: Mr. Benjamin E. Stone
Oil Conservation Division
Energy, Minerals and Natural Resources
Department
PO Box 2088
Santa Fe, NM 87504

Re: Western Reserves

Injection Application

Dear Mr. Stone;

Enclosed are copies of water sample analyses in the area of Western Reserves proposed Salt Water Disposal. As you can see the one sample was from the producing well on the lease and is the same analysis I referred to in the application. The fresh water sample was taken today from a water well belonging to the rancher and located in the NW/4 SW/4 of Section 26, Township 10 South, Range 33 East. The analysis was performed at Halliburton Services Hobbs Laboratory.

If there are any additional needed items, please contact us. Western reserves requests that the permit application be processed as soon as possible as their lease production is hindered awaiting this permit approval.

Yours very truly,

RICE ENGINEERING CORPORATION

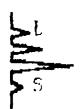
Jerry D. Hillard Division Manager

JDH/lr

Enclosures

## HALLIBURTON SERVICES HOBBS, NEW MEXICO

TO RICE Engineer.	V -	- Sample Number 265
	<b>t</b>	*Milligrams per liter
And the second		_
Submitted by	·	Date Received_8-3-93
Well No. NW 14 /50	4/Se 26 + 105 R 38 E	epthFormation
County	Field_	Source 11)ATEP WELL
· —	·.	
Resistivity	8.97 C74°F	
Specific Gr	.00 <i>5</i>	
pH	6.8	
Calcium*	foo	- II I FAIDIF
Ca Magnesium*	NVL	III FGIBLE
Mg Chlorides*		
Cl Sulfates*		
SO, Bicarbonates*		•
HCO <sub>3</sub> Soluble Iron*		
Fe Fe		



# Laboratory Services 1331 Tasker Drive Hobbs, New Mexico 88240

(505) 397-3713

#### WATER ANALYSIS

COMPANY	ENVIRO-CHEM				
	Attention, Mr. Rick				
SAMPLE	Western Reserves C	Dil Co			
	St_126" Well #3	the statement of the statement of the	- · ·		
DATE	The second secon	water one garantees (1997) from			
	ENVIRO-CHEM_				
Remarks		m would be a com-			_
Total Disolved Solids		دي الاحت المسالد <u>.</u> د المحدود محمو			
Hydrogen Sulfide					معادين ريدا والجهيد مناها وجهر
Sodium			*****		
Specific Gravity @ 60 F	1.047				ا سو ۳ س
Ph Taken At Lab	6.99	4	1 1 L	EGIB	
Banum as Ba	50				
Carbonate alkalinity PPM	<u> </u>				
Bicarbonate alkilinity PPM	464				
Calcium as CA	3,612				
Magnesium as Mg					
Total Hardness as CaCO					
Clorides as CL	27,534				
Sulfate as SO4					
iron as Fe		• •			
	0,1216 광	22 5 C	····	11.1.1.22	
Carbonate as CO3 G/L	11.75				
Nitrate					
Polassium	9.0				**************************************
Results reported as Part		Stated		THE PROPERTY OF THE PARTY	** t .
	marania mrnimia A達り、そうれ変質量。	च १च्छा <b>ल स</b> ्ट			
Langelier Saturation Inde	×+ 0.79				

Analysis By: Flolland Perry
Date: October 25, 1992

PAL CLASER. JA DIVISION RICE Engineehing Componation 122 WEST TAYLOR TELEPHONE (505) 393-9174

'93 AU: 5 AM 9 07

HOBBS, NEW MEXICO 88240 August 4, 1993

Attn: Mr. Benjamin E. Stone Oil Conservation Division Energy, Minerals and Natural Resources Department PO Box 2088 Santa Fe NM 87504

Re: Western Reserves

Injection Application

Dear Mr. Stone:

Enclosed is a copy of the analysis of the water sample caught yesterday. The copy sent before was lacking the Sodium and TDS numbers as well as not being signed by the lab chemist.

Yours very truly,

RICE ENGINEERING CORPORATION

Jerry D. Hillard Division Manager

JDH/lr

Enclosure

#### HALLIBURTON SERVICES

#### HOBBS, NEW MEXICO

To Rice Engineering Corporation  122 West Taylor  Hobbs, New Mexico 88240			Sample Number 265  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 form Halliburton Company.								
							Submitted by Ric	ce Engineering Cor	poration	Date Received August, 3	<b>199</b> 3
							Well No. NW 4/ St		S_Depth	Formation	
County	R. 33E Fi	eld	Source Water Well								
Resistivity	. 8.97 @ 74 F										
Specific Gr	. 1.005										
рН	6.8	· ·									
Calcium*	. 400	<del></del>									
Ca Magnesium*	. nil										
Mg Chlorides*	. 325	<del></del> <del></del>									
	. 112	<del></del>		_							
	. 232										
HCO <sub>3</sub> Soluble Iron*	. nil	<del></del>	<del></del>								
Fe Sodium Na	nil	· ·									
TDS	1069		<del></del>								
Remarks:			*Milligrams per liter	<del></del>							
-	Respect	fully submitt	ted,								
Analyst: <u>ALSUS</u>	me		HALLIBURTON COMPANY								
		Bv		_							
		-1	CHEMIST	-							