



N. M. LAND CONS. COMMISSION  
YATES DRILLING COMPANY P. O. BOX 1000

YATES BUILDING - 207 SOUTH 4TH ST. - (505) 746-3556 NEW MEXICO 88240 P. YATES.

VICE PRESIDENT

B. W. HARPER.

SEC. TREAS.

JACK W. MCCAUL.

ASST. SEC. TREAS.

ARTESIA, NEW MEXICO - 88210

February 2, 1987

Bureau of Land Management  
P.O. Drawer 1857  
Roswell, New Mexico 88201

Re: Garner Federal #6  
Section 3-13S-31E  
Chaves County, New Mexico  
NM-015807

Gentlemen:

In accordance with NTL-2B, Yates Drilling Company hereby requests approval of an unlined disposal pit.

The captioned well produces from the Queen formation approximately 1/2 barrel of water per day. The produced water is stored in a pit which is 18' X 10' X 3'.

The region is semi-arid and the soil is sandy. The Chinlee water aquifer is located at approximately 300'.

Enclosed you will find a copy of the water analysis on the produced water.

If you need anything further, please advise.

Sincerely,

YATES DRILLING COMPANY

*Karen J. Leishman*  
Karen J. Leishman  
Production Clerk

APPROVED  
PETER W. CHESTER

FEB 27 1987

BUREAU OF LAND MANAGEMENT  
ROSWELL RESOURCE AREA

enclosure

*Fence pit  
to protect  
livestock  
fWC*

# PERMIAN

Treating Chemicals, Inc.

P. O. BOX 728  
LOVINGTON, N.M. 88260  
PHONE (505) 396-5674

## WATER ANALYSIS REPORT

Company Yates Drilling Date Sampled 1-30-87  
Field Caprock County Chaves  
Lease Garner #6 State New Mexico  
Well \_\_\_\_\_ Formation Queens  
Type of Water Produced Water, B/D \_\_\_\_\_  
Sampling Point Treater Sampled By Gale Blackwell

### DISSOLVED SOLIDS

#### CATIONS

	mg/l		meq/l
Sodium, Na+(Calc)	<u>97,200</u>	÷ 23	<u>4226</u>
Calcium, Ca++	<u>3,760</u>	÷ 20	<u>188</u>
Magnesium, Mg++	<u>13,920</u>	÷ 12.2	<u>1141</u>
Barium, Ba++	<u>Neg</u>	÷ 68.7	<u>--</u>
Iron, Fe (Total)	<u>40</u>		
_____	_____		_____
_____	_____		_____

### OTHER PROPERTIES

pH 5.8  
Specific Gravity 1.200  
H<sub>2</sub>S Neg  
Total Dissolved  
Solids 306,000  
Total Hardness  
64,427

#### ANIONS

Chloride, Cl-	<u>198,000</u>	÷ 35.5	<u>5577</u>
Sulfate, So <sub>4</sub> =	<u>1,200</u>	÷ 48	<u>25</u>
Carbonate, Co <sub>3</sub> =	<u>0</u>	÷ 30	<u>0</u>
Bicarbonate, HCo <sub>3</sub> -	<u>120</u>	÷ 61	<u>2</u>
_____	_____		_____

Remarks and Recommendations \_\_\_\_\_