



N. M. L. COMS. COMMISSION

P. O. BOX 1000

YATES DRILLING COMPANY NEW MEXICO 88240

YATES BUILDING - 207 SOUTH 4TH ST. - (505) 746-3558

PEYTON YATES.

PRESIDENT

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B. W. HARPER.

SEC.-TREAS.

JACK W. MCCA.W.

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 #5
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 barrel of water per day. The produced water is stored in a pit which is 24' X 15' 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
B.L.M.C.*

PERMIAN

Treating Chemicals, Inc.

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

WATER ANALYSIS REPORT

Company Yates Drilling Date Sampled 1-30-87
Field Caprock County Chaves
Lease Garner #5 Battery State New Mexico
Well _____ Formation Queens
Type of Water Produced Water, B/D _____
Sampling Point Treater Sampled By Gale Blackwell

DISSOLVED SOLIDS

OTHER PROPERTIES

CATIONS

	mg/l		meq/l
Sodium, Na+(Calc)	<u>98,996</u>	÷ 23	<u>4304</u>
Calcium, Ca++	<u>3,870</u>	÷ 20	<u>194</u>
Magnesium, Mg++	<u>13,260</u>	÷ 12.2	<u>1087</u>
Barium, Ba++	<u>Neg</u>	÷ 68.7	_____
Iron, Fe (Total)	<u>58</u>		_____
_____	_____		_____
_____	_____		_____

pH 5.7
Specific Gravity
1.200
H₂S Neg.
Total Dissolved
Solids 312,000
Total Hardness
65,129

ANIONS

Chloride, Cl-	<u>196,000</u>	÷ 35.5	<u>5521</u>
Sulfate, So ₄ =	<u>1,390</u>	÷ 48	<u>29</u>
Carbonate, Co ₃ =	<u>0</u>	÷ 30	<u>0</u>
Bicarbonate, HCo ₃ -	<u>140</u>	÷ 61	<u>2.3</u>
_____	_____		_____

Remarks and Recommendations _____

RECEIVED
MAR 2 1987
OCD
HOBBS OFFICE