

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

Re: Fredia Federal #1
Section 3-13S-31E
Chaves County, New Mexico
NM-28179

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 15' X 15' X 3'.

The region is semi-arid and the soil is rocky. The Ogollala 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.

APPROVED

PETER W. CHESTER

FEB 27 1987

Fence pit to protect livestock fill

Sincerely,

YATES DRILLING COMPANY

BUREAU OF LAND MANAGEMENT Karen J. Leishman ROSWELL RESOURCE AREA Production Clerk

enclosure

PERMIAN Treating Chemicals, Inc._____

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WATER ANALYSIS REPORT

105

X 728

OV NM 88260

PHONE (505) 396-5674

Company Yates Drilling			Date Sampled 1-30-87	
FieldCaprock			_ County	Chaves
LeaseFredia Battery Well			StateNew Mexico	
			_ Formatic	FormationQueens
Type of Water Produced			_ Water, E	3/D
Sampling Point Treater			Sampled	ByGale_Blackwell
DISSOLVED SOLIDS				OTHER PROPERTIES
CATIONS	mg/l	:	meq/l	pH5.8
Sodium, Na+(Calc)	96,500	÷ 23	4 1 9 6	Specific Gravity
Calcium, Ca++	3,950	÷ 20	198	1,200
Nagnesium, Mg++	13,280	÷ 12.2	1089	H ₂ SNeg.
Barium, Ba++	Neg	÷ 68.7	Neg	Total Dissolved
Iron, Fe (Total)	· 26	, -		Solids
		-		Total Hardness
	<u></u>		<u></u>	66,000
ANIONS				
Chloride, Cl-	198,000	÷ 35.5	5577	
Sulfate, So ₄ =	1,100	÷ 48	23	
Carbonate, Co ₃ =	0	<u>+</u> 30	0	
Bicarbonate, HCo ₃ -	140	÷ 61	2.3	
	·	-		•
Remarks and Recommend	lations		•	