

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NM OIL CONS COMMISSION

Drawer DD

Artesia, NM **RECEIVED**

Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No.

NM-9194

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Sacahuiste KE Federal #1

9. API Well No.

3001522857

10. Field and Pool, or Exploratory Area

Undesignated Yeso

11. County or Parish, State

Eddy, N.M.

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT-" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

YATES PETROLEUM CORPORATION

3. Address and Telephone No.

105 S. 4th Street, Artesia, NM 88210 (505) 748-1471

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

660' FSL & 1980' FEL
Unit O - Section 34-T22S-R23E

RECEIVED

JUN 30 '94

O. C. D.
ARTESIA OFFICE

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

TYPE OF ACTION

☒ Notice of Intent

☐ Abandonment

☐ Change of Plans

☐ Subsequent Report

☐ Recompletion

☐ New Construction

☐ Final Abandonment Notice

☐ Plugging Back

☐ Non-Routine Fracturing

☐ Casing Repair

☐ Water Shut-Off

☐ Altering Casing

☐ Conversion to Injection

☐ Other _____

☒ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Yates Petroleum Corporation is submitting application for produced water from the above well pursuant to NTL-2B, Section II, and requests your approval. The well produces approximately 300 bbls of water per day from the Undesignated Yeso formation. The water is stored in a 210 barrel stock tank and pipelined to the State CO SWD Disposal System permit #SWD-285.

A water analysis is attached.

14. I hereby certify that the foregoing is true and correct

Signed

Shannon Coupland

Title Production Clerk

Date

5-27-94

(This space for Federal or State office use)

Approved by

(ORIG. SGD.) JOE G. LARA

Title

PETROLEUM ENGINEER

Date

6/29/94

Conditions of approval, if any:

See attached.

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

TRETOLITE DIVISION

 (505) 746-3588
 Fax (505) 746-3580

 Reply to:
 P.O. Box FF
 Artesia, NM
 88211-7531

 WATER ANALYSIS REPORT

 Company : YATES PETROLEUM
 Address : ARTESIA, NM
 Lease : SACAHUISTE "KE" FED.
 Well : #1
 Sample Pt. : TANK

 Date : 5/19/94
 Date Sampled : 5/18/94
 Analysis No. : 700

ANALYSIS		mg/L	* meq/L	
-----		----	-----	
1.	pH	7.1		
2.	H ₂ S	+		
3.	Specific Gravity	1.000		
4.	Total Dissolved Solids	6483.6		
5.	Suspended Solids	NR		
6.	Dissolved Oxygen	NR		
7.	Dissolved CO ₂	NR		
8.	Oil In Water	NR		
9.	Phenolphthalein Alkalinity (CaCO ₃)			
10.	Methyl Orange Alkalinity (CaCO ₃)			
11.	Bicarbonate HCO ₃	61.0	HCO ₃	1.0
12.	Chloride Cl	2130.0	Cl	60.1
13.	Sulfate SO ₄	2000.0	SO ₄	41.6
14.	Calcium Ca	2080.0	Ca	103.8
15.	Magnesium Mg	-265.8	Mg	-21.9
16.	Sodium (calculated) Na	478.4	Na	20.8
17.	Iron Fe	NR		
18.	Barium Ba	NR		
19.	Strontium Sr	NR		
20.	Total Hardness (CaCO ₃)	4100.0		

 PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter				Compound	Equiv wt X meq/L	=	mg/L
+-----+				+-----+			
104	*Ca <-----	*HCO ₃	1	Ca(HCO ₃) ₂	81.0	1.0	81
	/----->			CaSO ₄	68.1	41.6	2835
-22	*Mg ----->	*SO ₄	42	CaCl ₂	55.5	60.1	3334
	<-----/			Mg(HCO ₃) ₂	73.2		
21	*Na ----->	*Cl	60	MgSO ₄	60.2		
+-----+				+-----+			
Saturation Values Dist. Water 20 C				NaHCO ₃	84.0		
CaCO ₃ 13 mg/L				Na ₂ SO ₄	71.0		
CaSO ₄ * 2H ₂ O 2090 mg/L				NaCl	58.4		
BaSO ₄ 2.4 mg/L							

 REMARKS:

Petrolite Oilfield Chemicals Group

 Respectfully submitted,
 A. MILLER

SCALE TENDENCY REPORT

Company	: YATES PETROLEUM	Date	: 5/19/94
Address	: ARTESIA, NM	Date Sampled	: 5/18/94
Lease	: SACAHUISTE "KE" FED.	Analysis No.	: 700
Well	: #1	Analyst	: A. MILLER
Sample Pt.	: TANK		

STABILITY INDEX CALCULATIONS
(Stiff-Davis Method)
CaCO₃ Scaling Tendency

S.I. =	0.2	at	60 deg. F	or	16 deg. C
S.I. =	0.3	at	80 deg. F	or	27 deg. C
S.I. =	0.3	at	100 deg. F	or	38 deg. C
S.I. =	0.3	at	120 deg. F	or	49 deg. C
S.I. =	0.4	at	140 deg. F	or	60 deg. C

CALCIUM SULFATE SCALING TENDENCY CALCULATIONS
(Skillman-McDonald-Stiff Method)
Calcium Sulfate

S =	1173	at	60 deg. F	or	16 deg C
S =	1245	at	80 deg. F	or	27 deg C
S =	1273	at	100 deg. F	or	38 deg C
S =	1270	at	120 deg. F	or	49 deg C
S =	1260	at	140 deg. F	or	60 deg C

Petrolite Oilfield Chemicals Group

Respectfully submitted,
A. MILLER

PETROLITE

BUREAU OF LAND MANAGEMENT
CARLSBAD RESOURCE AREA

Disposal of Produced Water From Federal Wells

Conditions of Approval

Approval of the produced water disposal methodology is subject to the following conditions of approval:

1. This agency be notified of any change in your method or location of disposal.
2. Compliance with all provisions of Onshore Oil and Gas Order No. 7.
3. This agency shall be notified of any spill or discharge as required by NTL-3A.
4. This agency reserves the right to modify or rescind approval whenever it determines continued use of the approved method may adversely affect the surface or subsurface environments.
5. All aboveground structures on the lease shall be painted sandstone brown, Federal Std. 595-20318, or 30318, within 90 days if you have not already done so.
6. Any on lease open top storage tanks or pits shall be covered with a wire screen or plastic/nylon netting to prevent entry by birds and other wildlife.
7. This approval does not constitute right-of-way approval for any off lease activities. If water is transported via a pipeline that extends beyond the lease boundary, you need to submit within 30 days an application for right-of-way approval to the Realty Section in this office if you have not already done so.