

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NM OIL CONS COMMISSION

Drawer DD

Artesia, NM 88210

Budget Bureau No. 1004-0135

Expires: March 31, 1993

5. Lease Designation and Serial No.

NM-81893

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Zorillo ANZ Fed. Com. #2

9. API Well No.

3001527802

10. Field and Pool, or Exploratory Area

South Dagger Draw Upper Penn

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)

Section 10-T20S-R24E

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

TYPE OF SUBMISSION

TYPE OF ACTION

☒ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment Notice

☐ Abandonment

☐ Recompletion

☐ Plugging Back

☐ Casing Repair

☐ Altering Casing

☐ Other

☐ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut-Off

☐ Conversion to Injection

☒ 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 .09 bbls of water per day from the Upper Penn formation. The water is stored in a 210 barrel stock tank and pipelined to the Dagger Draw 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 11-16-94

(This space for Federal or State office use)

Approved by Orig. Signed by Adam Salameh

Title Petroleum Engineer

Date 12/13/94

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

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(rev. 3/10/94)

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, then 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.

WATER ANALYSIS REPORT

Company : YATES PETROLEUM
 Address : ARTESIA, NM
 Lease : ZORRILLO "ANZ"
 Well : #2
 Sample Pt. : WELLHEAD

Date : 4/26/94
 Date Sampled : 4/25/94
 Analysis No. : 680

ANALYSIS		mg/L	* meq/L
-----		----	-----
1.	pH	6.3	
2.	H2S	+	
3.	Specific Gravity	1.030	
4.	Total Dissolved Solids	56277.3	
5.	Suspended Solids	NR	
6.	Dissolved Oxygen	NR	
7.	Dissolved CO2	NR	
8.	Oil In Water	NR	
9.	Phenolphthalein Alkalinity (CaCO3)		
10.	Methyl Orange Alkalinity (CaCO3)		
11.	Bicarbonate	HCO3 268.0	HCO3 4.4
12.	Chloride	Cl 35145.0	Cl 991.4
13.	Sulfate	SO4 1625.0	SO4 33.8
14.	Calcium	Ca 7720.0	Ca 385.2
15.	Magnesium	Mg 3696.9	Mg 304.2
16.	Sodium (calculated)	Na 7822.3	Na 340.2
17.	Iron	Fe NR	
18.	Barium	Ba NR	
19.	Strontium	Sr NR	
20.	Total Hardness (CaCO3)	34500.0	

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter				Compound	Equiv wt	X meq/L	= mg/L
+-----+				-----			
385	*Ca <-----	*HCO3	4	Ca(HCO3)2	81.0	4.4	356
	/----->			CaSO4	68.1	33.8	2303
304	*Mg ----->	*SO4	34	CaCl2	55.5	347.0	19255
	<-----/			Mg(HCO3)2	73.2		
340	*Na ----->	*Cl	991	MgSO4	60.2		
				MgCl2	47.6	304.2	14479
Saturation Values Dist. Water 20 C				NaHCO3	84.0		
CaCO3		13 mg/L		Na2SO4	71.0		
CaSO4 * 2H2O		2090 mg/L		NaCl	58.4	340.2	19884
BaSO4		2.4 mg/L					

REMARKS:

Petrolite Oilfield Chemicals Group

Respectfully submitted,
A. MILLER

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OIL
FIELD

SCALE TENDENCY REPORT

Company	: YATES PETROLEUM	Date	: 4/26/94
Address	: ARTESIA, NM	Date Sampled	: 4/25/94
Lease	: ZORRILLO "ANZ"	Analysis No.	: 680
Well	: #2	Analyst	: A. MILLER
Sample Pt.	: WELLHEAD		

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. =	0.4	at	100 deg. F	or	38 deg. C
S.I. =	0.5	at	120 deg. F	or	49 deg. C
S.I. =	0.6	at	140 deg. F	or	60 deg. C

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

S =	1539	at	60 deg. F	or	16 deg C
S =	1687	at	80 deg. F	or	27 deg C
S =	1776	at	100 deg. F	or	38 deg C
S =	1810	at	120 deg. F	or	49 deg C
S =	1830	at	140 deg. F	or	60 deg C

Petrolite Oilfield Chemicals Group

Respectfully submitted,
A. MILLER