

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

JAN 14 1993

O. C. D.
APPROVAL

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

5. Lease Designation and Serial No.

~~NM 75501~~ LC 060543

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Bruning #4

9. API Well No.

30-015-04909

10. Field and Pool, or Exploratory Area
Square Lake-G-SA

11. County or Parish, State

Eddy, NM

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 (505) 748-1471

3. Address and Telephone No.

105 South 4th St., Artesia, NM 88210

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

Unit H, 1980' FNL, 660' FEL, Sec. 29-T16S-R31E

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

TYPE OF SUBMISSION

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other NTL-2B
☐ 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 hereby submitting application as per your request for produced water from the above well pursuant to NTL-2B, Section II, and requests your approval. The well produces \pm 15 BWPD from the Grayburg-San Andres formation. The water goes down the waterleg at the well to a 3" PVC line to the disposal well. The disposal well is Yates' Texas Trading #4 well located in NE/SW, Section 29-T16S-R31E. The Texas Trading #4 is an approved injection well for the Square Lake Waterflood.

A water analysis is attached.

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DEC 21 9 01 AM '92
CARTER
AREA

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

Signed Barbara D. Dadd

Title Production Supervisor

Date 12-18-92

(This space for Federal or State office use)

Approved by David A. Glass

Title

Date 1/12/93

Conditions of approval, if any:

PETROLITE

WATER ANALYSIS REPORT

Company : YATES PETROLEUM
Address : ARTESIA NM
Lease : BRUING
Well : 4
Sample Pt. : WELLHEAD

Date : 11-23-92
Date Sampled : 11-23-92
Analysis No. : 242

ANALYSIS		mg/L		* meq/L
-----		----		-----
1. pH	5.9			
2. H2S	5			
3. Specific Gravity	1.070			
4. Total Dissolved Solids		111069.9		
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	244.0	HCO3	4.0
12. Chloride	Cl	66030.0	Cl	1862.6
13. Sulfate	SO4	3125.0	SO4	65.1
14. Calcium	Ca	6080.0	Ca	303.4
15. Magnesium	Mg	2068.5	Mg	170.2
16. Sodium (calculated)	Na	33522.3	Na	1458.1
17. Iron	Fe	0.0		
18. Barium	Ba	0.0		
19. Strontium	Sr	0.0		
20. Total Hardness (CaCO3)		23700.0		

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter		Compound	Equiv wt	X meq/L	= mg/L
-----	-----	-----	-----	-----	-----
303	*Ca <----- *HCO3	Ca(HCO3)2	81.0	4.0	324
170	/----->	CaSO4	68.1	65.1	4429
1458	*Mg -----> *SO4	CaCl2	55.5	234.3	13002
	<-----/	Mg(HCO3)2	73.2		
	*Na -----> *Cl	MgSO4	60.2		
		MgCl2	47.6	170.2	8101
		NaHCO3	84.0		
		Na2SO4	71.0		
		NaCl	58.4	1458.1	85213

Saturation Values Dist. Water 20 C
CaCO3 13 mg/L
CaSO4 * 2H2O 2090 mg/L
BaSO4 2.4 mg/L

REMARKS:

----- L. MALLETT-HOBBS

Petrolite Oilfield Chemicals Group

Respectfully submitted,
S. TIGERT

PETROLITE

SCALE TENDENCY REPORT

Company	: YATES PETROLEUM	Date	: 11-23-92
Address	: ARTESIA NM	Date Sampled	: 11-23-92
Lease	: BRUING	Analysis No.	: 242
Well	: 4	Analyst	: S. TIGERT
Sample Pt.	: WELLHEAD		

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

S.I. =	-0.3	at	60 deg. F	or	16 deg. C
S.I. =	-0.2	at	80 deg. F	or	27 deg. C
S.I. =	-0.1	at	120 deg. F	or	49 deg. C
S.I. =	0.0	at	140 deg. F	or	60 deg. C
S.I. =	0.1	at	160 deg. F	or	71 deg. C

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

S =	2599	at	60 deg. F	or	16 deg C
S =	2850	at	80 deg. F	or	27 deg C
S =	3090	at	120 deg. F	or	49 deg C
S =	3147	at	140 deg. F	or	60 deg C
S =	3115	at	160 deg. F	or	71 deg C

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Respectfully submitted,
S. TIGERT