

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

N.M. Oil & Gas Division
811 S. 1st Street
Artesia, NM 88210-2834

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

C15F

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 Drilling Company

3. Address and Telephone No.

105 South 4th Street, Artesia, NM 88210

505-748-4500

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

2310' FNL & 2310' FWL Section 34-17S-29E

5. Lease Designation and Serial No.

LC-064073

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Robinson Federal #1-B

9. API Well No.

30 015 03766

10. Field and Pool, or Exploratory Area

GRB, Jackson, 7RVS

11. County or Parish, State

Eddy County, NM

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 _____
- ☐ 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 Drilling Company respectfully requests permission to dispose of the produced water from the captioned well.

The well produces approximately 20 barrels of water per day from the Grayburg formation. The water is stored in a 210 barrel fiberglass tank on location.

The water will be trucked and disposed of by McDaniel Trucking to either the Walter Solt SWD-130, Section 5-18S-28E, Eddy County, NM, OCD #318 or the Loco Hills SWD, Section 16-17S-30E, Eddy County, NM, OCD #R-6811-A.

Enclosed is a water analysis for the produced water.

**SUBJECT TO
LIKE APPROVAL
BY STATE**

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MAY 12 P 2:59
N.M. OIL & GAS DIVISION
ARTEZIA, NM

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

Signed Karen J. Leushman

Title Engineering Technician

Date 4-27-99

(This space for Federal or State office use)

Approved **(ORIG. SGD.) GARY GOURLEY**

Title **PETROLEUM ENGINEER**

Date **MAY 28 1999**

Conditions of approval, if any:



MILLER CHEMICALS, INC.

Post Office Box 298
 Artesia, N.M. 88211-0298
 (505) 746-1919 Office
 (505) 746-1918 Fax

WATER ANALYSIS REPORT

Company : YATES DRILLING
 Address : ARTESIA, NM
 Lease : ROBINSON FEDERAL "B"
 Well : #1
 Sample Pt. : WATER TANK

Date : 5/1/99
 Date Sampled : 4/30/99
 Analysis No. : 0090

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 ARTESIA, NM
 WATER RESOURCES AREA

ANALYSIS		mg/L		* meq/L
1. pH	6.0			
2. H2S	60			
3. Specific Gravity	1.040			
4. Total Dissolved Solids		88947.7		
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	976.0	HCO3	16.0
12. Chloride	Cl	51120.0	Cl	1442.0
13. Sulfate	SO4	3125.0	SO4	65.1
14. Calcium	Ca	1400.0	Ca	69.9
15. Magnesium	Mg	1215.3	Mg	100.0
16. Sodium (calculated)	Na	31111.4	Na	1353.3
17. Iron	Fe	NR		
18. Barium	Ba	NR		
19. Strontium	Sr	NR		
20. Total Hardness (CaCO3)		8500.0		

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter		Compound	Equiv wt X meq/L	=	mg/L
+-----+	+-----+				
70 *Ca <----- *HCO3	16	Ca (HCO3) 2	81.0	16.0	1297
----- /----->	-----	CaSO4	68.1	53.9	3666
100 *Mg -----> *SO4	65	CaCl2	55.5		
----- <-----/	-----	Mg (HCO3) 2	73.2		
1353 *Na -----> *Cl	1442	MgSO4	60.2	11.2	675
+-----+	+-----+	MgCl2	47.6	88.8	4226
Saturation Values Dist. Water 20 C		NaHCO3	84.0		
CaCO3	13 mg/L	Na2SO4	71.0		
CaSO4 * 2H2O	2090 mg/L	NaCl	58.4	1353.3	79084
BaSO4	2.4 mg/L				

REMARKS:

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ARTESIA LAND UNIT
WATER RESOURCES AREA

SCALE TENDENCY REPORT

Company	: YATES DRILLING	Date	: 5/1/99
Address	: ARTESIA, NM	Date Sampled	: 4/30/99
Lease	: ROBINSON FEDERAL "B"	Analysis No.	: 0090
Well	: #1	Analyst	: A. MILLER
Sample Pt.	: WATER TANK		

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

S.I. =	-0.2	at	60 deg.	F or	16 deg.	C
S.I. =	-0.2	at	80 deg.	F or	27 deg.	C
S.I. =	-0.1	at	100 deg.	F or	38 deg.	C
S.I. =	0.0	at	120 deg.	F or	49 deg.	C
S.I. =	0.1	at	140 deg.	F or	60 deg.	C

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

S =	6394	at	60 deg.	F or	16 deg	C
S =	6734	at	80 deg.	F or	27 deg	C
S =	6937	at	100 deg.	F or	38 deg	C
S =	7025	at	120 deg.	F or	49 deg	C
S =	7083	at	140 deg.	F or	60 deg	C

Respectfully submitted,
A. MILLER