

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

Oil Cons.

N.M. DIV-Dist. 2

FORM APPROVED  
OMB No. 1004-0125  
Expires November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS  
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

1301 W. Grand Avenue  
Artesia, NM 88210

NM-96219

## SUBMIT IN TRIPLICATE - Other instructions on reverse side

## 1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

## 2. Name of Operator

Yates Drilling Company

## 3a. Address

105 S. 4th St., Artesia, NM

## 3b. Phone No. (include Area Code)

505-749-0308

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

990' FSL & 990' FWL  
Section 34-17S-29E

## 7. If Unit or CA/Agreement, Name and/or No.

## 8. Well Name and No.

Millennium "34" Fed Com #1

## 9. API Well No.

30-015-31833

## 10. Field and Pool, or Exploratory Area

Grayburg Morrow

## 11. County or Parish, State

Eddy County, NM

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

## TYPE OF SUBMISSION

## TYPE OF ACTION

☐ Notice of Intent☒ Subsequent Report☐ Final Abandonment Notice☐ Acidize☐ Alter Casing☐ Casing Repair☐ Change Plans☐ Convert to Injection☐ Deepen☐ Fracture Treat☐ New Construction☐ Plug and Abandon☐ Plug Back☐ Production (Start/Resume)☐ Reclamation☐ Recomplete☐ Temporarily Abandon☐ Water Disposal☐ Water Shut-Off☐ Well Integrity☒ Other NTL-2B

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

The Millennium produces approximately 3 barrels of water per day. It is stored on location in a 210 barrel fiberglass tank.

The water will be trucked by O.K. Hot Oil Service to the following disposal

Aid State

Section 14-T17S-R28E

Eddy County, NM

NM#580311146

Attached is a water analysis for the produced water.

Accepted for record - NMOCED

ACCEPTED FOR RECORD

18

APR 15 2002

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

Name (Printed/Typed)

Karen J. Leishman

Title

Engineering Technician

Signature

Karen J. Leishman

Date

4-11-02

## THIS SPACE FOR FEDERAL OR STATE OFFICE USE

## Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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.

RECEIVED  
2002 APR 15 AM 9:52  
BUREAU OF ALBANY  
POSTAL OFFICE



# MILLER CHEMICALS, INC.

Post Office Box 298  
 Artesia, N.M. 88211-0298  
 (505) 746-1919 Artesia Office  
 (505) 393-2893 Hobbs Office  
 (505) 746-1918 Fax

## WATER ANALYSIS REPORT

Company : YATES DRILLING COMP Date : 3/22/02  
 Address : ARTESIA, NM Date Sampled : 3/21/02  
 Lease : MILLENIUM Analysis No. : 00326  
 Well : #1  
 Sample Pt. : UNKNOWN

ANALYSIS	mg/L	* meq/L
1. pH	6.7	
2. H2S	0	
3. Specific Gravity	1.010	
4. Total Dissolved Solids	41792.0	
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	781.0	HCO3 12.8
12. Chloride Cl	25134.0	Cl 709.0
13. Sulfate SO4	200.0	SO4 4.2
14. Calcium Ca	2600.0	Ca 129.7
15. Magnesium Mg	754.7	Mg 62.1
16. Sodium (calculated) Na	12279.8	Na 534.1
17. Iron Fe	42.5	
18. Barium Ba	NR	
19. Strontium Sr	NR	
20. Total Hardness (CaCO3)	9600.0	

## PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter	Compound	Equiv wt X meq/L	= mg/L
+-----+			
130  *Ca <----- *HCO3   13	Ca(HCO3)2	81.0 12.8	1038
-----  /----->  -----	CaSO4	68.1 4.2	283
62  *Mg -----> *SO4   . 4	CaCl2	55.5 112.8	6258
-----  <-----/  -----	Mg(HCO3)2	73.2	
534  *Na -----> *Cl   709	MgSO4	60.2	
+-----+	MgCl2	47.6 62.1	2956
Saturation Values Dist. Water 20 C	NaHCO3	84.0	
CaCO3 13 mg/L	Na2SO4	71.0	
CaSO4 * 2H2O 2090 mg/L	NaCl	58.4 534.1	31215
BaSO4 2.4 mg/L			

REMARKS: 0.094 % KCL PRESENT

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POSTAL OFFICE

# SCALE TENDENCY REPORT

Company : HYATES DRILLING COMP Date : 3/22/02  
Address : ARTESIA, NM Date Sampled : 3/21/02  
Lease : MILLENIUM Analysis No. : 00326  
Well : #1 Analyst : A. MILLER  
Sample Pt. : INKNOWN

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

S.I. = 0.7 at 70 deg. F or 21 deg. C  
S.I. = 0.8 at 90 deg. F or 32 deg. C  
S.I. = 0.9 at 110 deg. F or 43 deg. C  
S.I. = 0.9 at 130 deg. F or 54 deg. C  
S.I. = 1.0 at 150 deg. F or 66 deg. C

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

S = 2579 at 70 deg. F or 21 deg C  
S = 2700 at 90 deg. F or 32 deg C  
S = 2773 at 110 deg. F or 43 deg C  
S = 2783 at 130 deg. F or 54 deg C  
S = 2759 at 150 deg. F or 66 deg C

Respectfully submitted,  
A. MILLER

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OFFICE OF THE ATTORNEY GENERAL  
STATE OF NEW YORK