

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

N.M. Oil Cons. Division
1625 ... French Dr.
Hobbs, NM 88240

FORM APPROVED
OMB No. 1004-G135
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.

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 South 4th St., Artesia, NM 88210

3b. Phone No. (include area code)
505-746-0308

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1980' FNL & 660' FWL
Section 30-19S-32E

5. Lease Serial No.
NM-010697

6. If Indian, Allottee or Tribe Name
-

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

8. Well Name and No.
Gecko Federal #1

9. API Well No.
30-025-32678

10. Field and Pool, or Exploratory Area
Lusk, Yates, Seven Rivers

11. County or Parish, State
Lea County, NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input checked="" type="checkbox"/> Water Disposal	

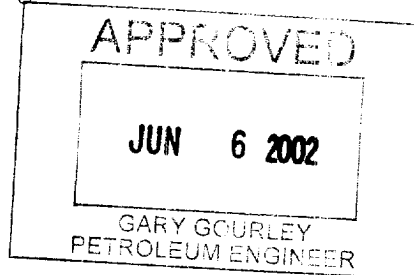
13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths 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.)

This well produces approximately 2 bbls. water per fay and is stored in a 210 bbl. fiberglass tank on location. A produced water analysis is attached.

Water will be hauled by I & W, Inc. to the following:

Tennessee SWD
Section 21-19S-31E
Eddy County, NM
NM# R-8173

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS ATTACHED



14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Karen J. Leishman

Title Engineering Technician

Signature

Date

5-31-02

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.



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 COMPA	Date	: 5/20/02
Address	: ARTESIA, NM	Date Sampled	: 5/20/02
Lease	: GECKO	Analysis No.	: 00347
Well	: #1		
Sample Pt.	: WELLHEAD		

ANALYSIS		mg/L	* meq/L	
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1.	pH	6.8		
2.	H2S	100		
3.	Specific Gravity	1.010		
4.	Total Dissolved Solids	46331.6		
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 1208.0	HCO3	19.8
12.	Chloride	Cl 25560.0	Cl	721.0
13.	Sulfate	SO4 2125.0	SO4	44.3
14.	Calcium	Ca 1200.0	Ca	59.9
15.	Magnesium	Mg 486.6	Mg	40.0
16.	Sodium (calculated)	Na 15751.8	Na	685.2
17.	Iron	Fe 0.3		
18.	Barium	Ba NR		
19.	Strontium	Sr NR		
20.	Total Hardness (CaCO3)	5000.0		

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter	Compound	Equiv wt X meq/L = mg/L		
-----+				
60 *Ca <----- *HCO3 20	Ca (HCO3)2	81.0	19.8	1605
----- /-----> -----	CaSO4	68.1	40.1	2728
40 *Mg -----> *SO4 44	CaCl2	55.5		
----- <-----/ -----	Mg (HCO3)2	73.2		
685 *Na -----> *Cl 721	MgSO4	60.2	4.2	251
-----+	MgCl2	47.6	35.9	1707
Saturation Values Dist. Water 20 C	NaHCO3	84.0		
CaCO3 13 mg/L	Na2SO4	71.0		
CaSO4 * 2H2O 2090 mg/L	NaCl	58.4	685.2	40041
BaSO4 2.4 mg/L				

REMARKS:

SCALE TENDENCY REPORT

Company	: YATES DRILLING COMPA	Date	: 5/20/02
Address	: ARTESIA, NM	Date Sampled	: 5/20/02
Lease	: GECKO	Analysis No.	: 00347
Well	: #1	Analyst	: A. MILLER
Sample Pt.	: WELLHEAD		

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

S.I. =	0.7	at	70 deg. F	or	21 deg. C
S.I. =	0.7	at	90 deg. F	or	32 deg. C
S.I. =	0.8	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

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

S =	4927	at	70 deg. F	or	21 deg C
S =	5084	at	90 deg. F	or	32 deg C
S =	5178	at	110 deg. F	or	43 deg C
S =	5192	at	130 deg. F	or	54 deg C
S =	5161	at	150 deg. F	or	66 deg C

Respectfully submitted,
A. MILLER