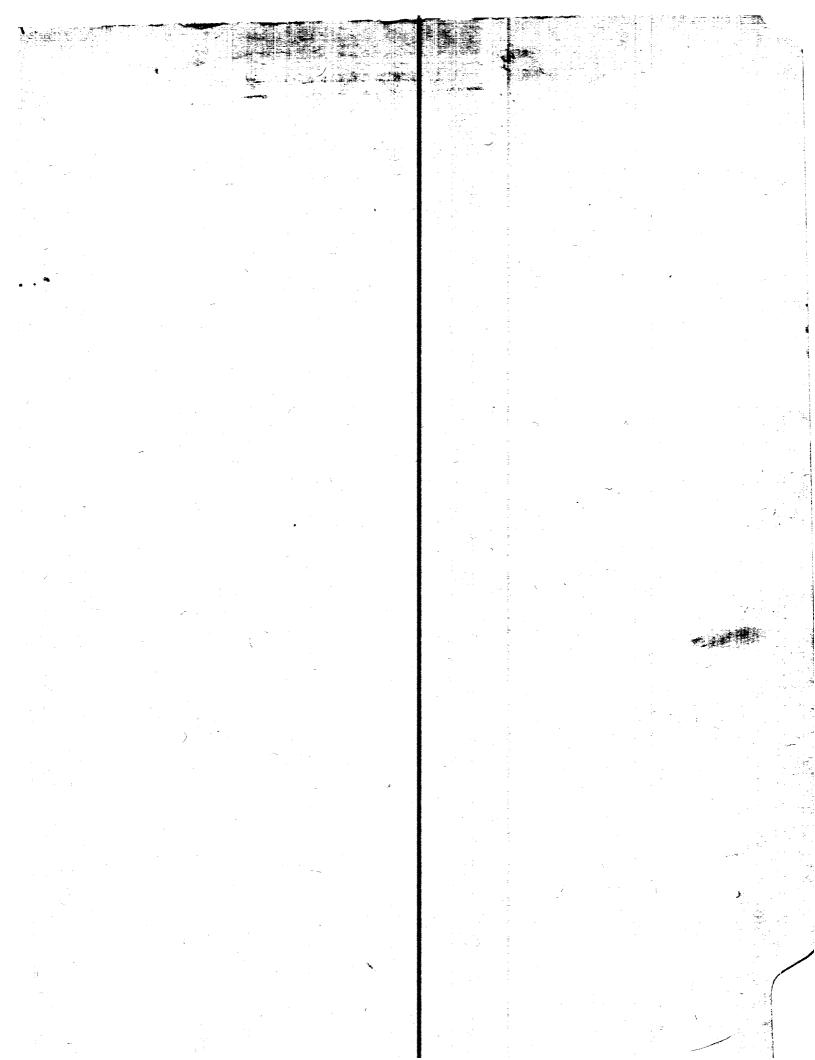
8/27/63 (2) Farmalia Sineity Loy

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160-5اد:Form (June 1990)

UNITED STATES DEPARTMENT OF THE INTERIOR

N.M. Oil Cons. Division 811 S. 1st Str Artesia, NM 88210-2834

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

BUREAU OF L	AND MANAGEMENT	5. Lease Designation and Serial No.	
SUNDRY NOTICES A Do not use this form for proposals to dril Use "APPLICATION FOR	NM-05525-B 6. If Indian, Allottee or Tribe Name		
	IN TRIPLICATE	7. If Unit or CA, Agreement Designation	
I. Type of Well X Oil Well Gas Other		South Loco Hills Waterflood 8. Well Name and No.	
2. Name of Operator /		South Loco Hills #1	
Yates Drilling Company		9. API Well No.	
3. Address and Telephone No.	30 015 10242		
105 South 4th Street, Artesi Location of Well (Footage, Sec., T., R., M., or Survey Des	10. Field and Pool, or Exploratory Area		
botation of well (100age, Sec., 1., R., M., Of Survey Des	Loco Hills, Qn, GRB, SA		
990' FNL & 2040' FWL Section	19-18S-29E		
		Eddy County, NM	
2 CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPO	RT, OR OTHER DATA	
TYPE OF SUBMISSION	TYPE OF ACTION		
Notice of Intent	Abandonment	Change of Plans	
	Recompletion	New Construction	
Subsequent Report	Plugging Back	Non-Routine Fracturing	
	Casing Repair	Water Shut-Off	
Final Abandonment Notice	Altering Casing	Conversion to Injection	
	Other	X Dispose Water (Note: Report results of multiple completion on Well	
2 David David Control		Completion or Recompletion Report and Log form.)	
	pertinent details, and give pertinent dates, including estimated date of starting depths for all markers and zones pertinent to this work.)*	g any proposed work. If well is directionally drilled,	
Vates Drilling Company respect	fully requests permission to dispose	of the produced water	
from the captioned well	rully requests formittee and the samples of	1	
The well produces approximatel	y 5 barrels of water per day from the	e Grayburg formation.	
The water is stored on locatio	n in a 210 barrel fiberglass tank.		
The water will be trucked and	disposed of by McDaniel Trucking to	the Walter Solt SWD-130,	
	, NM, OCD $\#SWD-318$ or the Loco Hills	SWD, Section 16-1/S-30E,	
Eddy County, NM, OCD #R-6811-A			
Enclosed is a water analysis f	or the produced water, 123450789		
Enclosed is a water analysis i			
	Samuel	<u> </u>	
	On Ach Jon		
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	TAPEC.	/ AS 3 5	
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	CS12003.		
14. I hereby certify that the foregoing is true and correct		¥ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
Signed Later & Lustma,	Title Engineering Technician		
(This space for Federal or State office use)			
Approved by ORIG. SGD.) GARY GOURI	Tide PETROLEUM ENGINEER	Date Date 08 1999	
i onditions of approval it any:	of a		



MILLER CHEMICALS, INC.

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

WATER ANALYSIS REPORT

Date : 5/1/99
Date Sampled : 4/30/99
Analysis No. : 0091 Company : YATES DRILLING : ARTESIA, NM : SLHU : #1 Address

Lease Well

Sample Pt. : WATER TANK

	ANALYSIS		mg/L			* meq/L		
1.	рН	7.1						
2.	H2S	0						
3.	Specific Gravity	1.120						
4.	Total Dissolved Sol	ids		169714.4				
5.	Suspended Solids			NR				
6.	Dissolved Oxygen			NR				
7.	Dissolved CO2			NR				
8.	Oil In Water			NR				
9.	Phenolphthalein Alkalinity (CaCO3)							
10.	Methyl Orange Alkal	inity (CaC	(303					
11.	Bicarbonate		HCO3	427.0	нсоз	7.0		
12.	Chloride		Cl	102240.0	Cl	2884.1		
13.	Sulfate		SO4	1500.0	SO4	31.2		
14.	Calcium		Ca	14000.0	Ca	698.6		
15.	Magnesium		Mg	-476.4	Mg	-39.2		
16.	Sodium (calculated)		Na	52023.9	Na	2262.9		
17.	Iron		Fe	NR				
18.	Barium		Ва	NR				
19.	Strontium		Sr	NR				
20.	Total Hardness (CaC	03)		33000.0				

PROBABLE MINERAL COMPOSITION

		_		
*milli equivalents per Liter	Compound	Equiv wt	X meq/L	= mg/L
++				
699 *Ca < *HCO3 7	Ca (HCO3) 2	81.0	7.0	567
/	CaSO4	68.1	31.2	2126
-39 *Mg> *S04 31	CaCl2	55.5	660.4	36644
<	Mg (HCO3) 2	73.2		
2263 *Na> *Cl 2884	MgSO4	60.2		
++	MgCl2	47.6		
Saturation Values Dist. Water 20 C	NaHCO3	84.0		
CaCO3 13 mg/L	Na2SO4	71.0		
CaSO4 * 2H2O 2090 mg/L	NaCl	58.4	2223.7	129953
BaSO4 2.4 mg/L				

REMARKS:

SCALE TENDENCY REPORT

Company : YATES DRILLING
Address : ARTESIA, NM
Lease : SLHU

: ARTESIA, NM Date Sampled: 4/30/99
: SLHU Analysis No.: 0091
: #1 Analyst: A. MILLER

Date

: 5/1/99

Sample Pt. : WATER TANK

Well

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

S.I. = 1.6 at 60 deg. F or 16 deg. C S.I. = 1.7 at 80 deg. F or 27 deg. C S.I. = 1.7 at 100 deg. F or 38 deg. C S.I. = 1.8 at 120 deg. F or 49 deg. C S.I. = 1.8 at 140 deg. F or 60 deg. C

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

S = 1150 at 60 deg. F or 16 deg C S = 1275 at 80 deg. F or 27 deg C S = 1356 at 100 deg. F or 38 deg C S = 1395 at 120 deg. F or 49 deg C S = 1425 at 140 deg. F or 60 deg C

Respectfully submitted, A. MILLER