

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NM OIL & GAS COMMISSION
Drawer DD
Artesia, NM 88210

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

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 RECEIVED

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

YATES PETROLEUM CORPORATION

3. Address and Telephone No.

105 S. 4th Street, Artesia, NM 88210 (505) 748-1471

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

Section 3-T24S-R31E 1980' FNL & 660' FEL

5. Lease Designation and Serial No.

NM-80645

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Lily ALY Federal #4

9. API Well No.

3001527265

10. Field and Pool, or Exploratory Area

Ingle Wells Delaware

11. County or Parish, State

Eddy, N.M.

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

TYPE OF SUBMISSION

TYPE OF ACTION

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

- ☐ 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 directional drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Yates Petroleum Corporation is submitting application for produced water from the above well pursuant to NTL-2B, Section II, and requests your approval. The well produces approximately 250 bbls of water per day from the Ingle Wells Delaware formation. The water is stored in a 210 barrel stock tank and pipelined to the David Ross SWD Disposal System permit #SWD-419.

A water analysis is attached.

RECEIVED
JUN 30 10 37 AM '94
CARL AREA

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

Signed Shannon J. Cuypland Title Production Clerk Date 6-28-94

(This space for Federal or State office use)

Approved by (ORIG. SGD.) JOE G. LARA

Title PETROLEUM ENGINEER

Date 7/5/94

Conditions of approval, if any: See attached.

Title 18 U.S.C. Section 1001, makes 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.

*See Instruction on Reverse Side

TRETOLITE DIVISION

 (505) 746-3588
 Fax (505) 746-3580

 Reply to:
 P.O. Box FF
 Artesia, NM
 88211-7531

WATER ANALYSIS REPORT

 Company : YATES PETROLEUM
 Address : ARTESIA, NM
 Lease : LILY "ALY" FEDERAL
 Well : #4
 Sample Pt. : WELLHEAD

 Date : 4/6/94
 Date Sampled : 4/6/94
 Analysis No. : 673

ANALYSIS	mg/L	* meq/L
1. pH	5.1	
2. H ₂ S	NEG	
3. Specific Gravity	1.145	
4. Total Dissolved Solids	220730.1	
5. Suspended Solids	NR	
6. Dissolved Oxygen	NR	
7. Dissolved CO ₂	NR	
8. Oil In Water	NR	
9. Phenolphthalein Alkalinity (CaCO ₃)		
10. Methyl Orange Alkalinity (CaCO ₃)		
11. Bicarbonate	HCO ₃ 61.0	HCO ₃ 1.0
12. Chloride	Cl 143562.0	Cl 4049.7
13. Sulfate	SO ₄ 125.0	SO ₄ 2.6
14. Calcium	Ca 16320.0	Ca 814.4
15. Magnesium	Mg 15482.4	Mg 1273.7
16. Sodium (calculated)	Na 45179.6	Na 1965.2
17. Iron	Fe NR	
18. Barium	Ba NR	
19. Strontium	Sr NR	
20. Total Hardness (CaCO ₃)	104500.0	

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter	Compound	Equiv wt	X meq/L	= mg/L
814 *Ca <----- *HCO ₃	Ca(HCO ₃) ₂	81.0	1.0	81
----- /----->	CaSO ₄	68.1	2.6	177
1274 *Mg -----> *SO ₄	CaCl ₂	55.5	810.8	44990
----- <----- /	Mg(HCO ₃) ₂	73.2		
1965 *Na -----> *Cl	MgSO ₄	60.2		
	MgCl ₂	47.6	1273.7	60637
	NaHCO ₃	84.0		
	Na ₂ SO ₄	71.0		
	NaCl	58.4	1965.2	114845
Saturation Values Dist. Water 20 C				
CaCO ₃ 13 mg/L				
CaSO ₄ * 2H ₂ O 2090 mg/L				
BaSO ₄ 2.4 mg/L				

REMARKS:

Petrolite Oilfield Chemicals Group

 Respectfully submitted,
 S. TIGERT

SCALE TENDENCY REPORT

Company	: YATES PETROLEUM	Date	: 4/6/94
Address	: ARTESIA, NM	Date Sampled	: 4/6/94
Lease	: LILY "ALY" FEDERAL	Analysis No.	: 673
Well	: #1	Analyst	: S. TIGERT
Sample Pt.	: WELLHEAD		

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

S.I. =	-0.9	at	60 deg. F	or	16 deg. C
S.I. =	-0.9	at	80 deg. F	or	27 deg. C
S.I. =	-0.9	at	100 deg. F	or	38 deg. C
S.I. =	-0.9	at	120 deg. F	or	49 deg. C
S.I. =	-0.9	at	140 deg. F	or	60 deg. C

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

S =	830	at	60 deg. F	or	16 deg C
S =	923	at	80 deg. F	or	27 deg C
S =	981	at	100 deg. F	or	38 deg C
S =	1006	at	120 deg. F	or	49 deg C
S =	1023	at	140 deg. F	or	60 deg C

Petrolite Oilfield Chemicals Group

Respectfully submitted,
S. TIGERT

YATES PETROLEUM CORPORATION

SALT WATER DISPOSAL WELLS IN NEW MEXICO

September 1, 1992

FOREMAN	LEASE #	WELL NAME	LOCATION	ORDER #	APPROXIMATE BWP DISPOSED OF	AVERAGE INJECTION PRESSURE	INJECTION INTERVAL
CHAVEZ	013400-001	BOB GUSHWA COM #1	21-18S-26E	R-5322	0	N/A	8983-9128
HORNER	013749-001	BROWN AEI #1	26-16S-37E	SWD-324	81566	VAC-300	10366-10694
HANES	018614-001	CHAMPLIN UL FEDERAL #1	12-8S-31E	R-7130	14882	950	4009-4217
PERRY	019599-001	COMPROMISE AEJ FED COM #1	30-18S-27E	SWD-400	6306	490	8054-8153
DEHLER	019730-001	COTTON MX COM #1	14-19S-25E	SWD-370	229284	1870	7680-8000
PERRY	021657-001	DAVID ROSS SWD #1	35-22S-31E	SWD-419	57946	329	4500-5670
CHAVEZ	021700-001	DAYTON TOWNSITE GAS COM #1	21-18S-26E	R-7600	39202	173	8901-9062
CHAVEZ	001539-001	DONAHUE FEDERAL #1	10-20S-24E	SWD-377	2750	400	4296-4596
PERRY	024155-001	EDDY GR STATE #1	16-23S-28E	SWD-414	7434	330	2892-3194
HANES	025300-001	FEDERAL HI #1 (LINDA)	31-6S-26E	R-5545	1694	258	963-1470
PERRY	025615-001	FLAMENCO SWD #1	7-22S-32E	SWD-428	109383	885	4676-5814
PERRY	025836-002	FLOWER AGA STATE #2	3-26S-28E	SWD-325	1500	377	2552-2833
HORNER	026334-001	FREEMAN ACF #1	22-16S-37E	R-8290	0	0	10050-10350
HORNER	003200-001	HARRIS STATE #1	29-13S-34E	SWD-224	65899	781	10390-10395
HORNER	032270-001	HOOVER ADR STATE #1	1-17S-33E	SWD-402	10892	VAC	3767-3774
CHAVEZ	032771-001	HUMBLE HOBBS FEDERAL #1	24-20S-24E	SWD-434	339876	1438	9600-11580
HANES	036986-001	LOVELADY ADN STATE #1	31-8S-33E	SWD-294	11322	VAC	4286-4419
PERRY	037132-001	LUSK #1 SWD (LUSK #4 SWD)	35-19S-32E	SWD-480	5428	160	4733-7678
CHAVEZ	039834-004	MMMOA AHS #4	4-20S-24E	SWD-408	166593	468	9836-11159 (OH)
CHAVEZ	039834-001	MMMOA AHS FEDERAL #1	4-20S-24E	R-5602	105334	920	9515-11011
ATKINS	040010-002	MITCHELL LN #2	23-17S-25E	SWD-336	26312	55	8879-9362
DEHLER	043620-001	OSAGE #1	21-19S-25E	SWD-415	42720	1431	7672-7813
HANES	043844-013	PATHFINDER AFT STATE #13	21-10S-27E	SWD-394	137050	VAC	6442-6729
HANES	043844-007	PATHFINDER AFT STATE #7	21-10S-27E	SWD-394	0	0	2450-2650
HANES	043940-003	PATTON AAR STATE #3	5-9S-32E	R-3637	662	VAC	5805-5920
HORNER	046582-001	RED HAT STATE UNIT #1	2-16S-33E	SWD-468	N/A	N/A	5805-5920
DEHLER	047690-002	ROUTH NU COM #2	14-19S-24E	SWD-399	91471	991	9570-9900
DEHLER	047556-003	ROY AET #3	7-19S-25E	SWD-437	86096	1135	9766-11110
CHAVEZ	052125-001	STATE CO #1	36-19S-24E	SWD-285	93415	1327	10025-11311
PERRY	052526-001	STONEWALL YE STATE #1	16-20S-24E	SWD-395	95234	1450	10000-11052
HANES	052844-002	SUN UW FEDERAL #2	30-20S-28E	R-8265	14365	657	2595-3685
HORNER	052888-002	SWAN VB STATE #2	10-8S-33E	R-8271	14581	1176	4219-4308
			21-14S-33E	R-7292	64629	VAC-120	10071-10350

BUREAU OF LAND MANAGEMENT
CARLSBAD RESOURCE AREA

Disposal of Produced Water From Federal Wells

Conditions of Approval

Approval of the produced water disposal methodology is subject to the following conditions of approval:

1. This agency be notified of any change in your method or location of disposal.
2. Compliance with all provisions of Onshore Oil and Gas Order No. 7.
3. This agency shall be notified of any spill or discharge as required by NTL-3A.
4. This agency reserves the right to modify or rescind approval whenever it determines continued use of the approved method may adversely affect the surface or subsurface environments.
5. All aboveground structures on the lease shall be painted sandstone brown, Federal Std. 595-20318, or 30318, within 90 days if you have not already done so.
6. Any on lease open top storage tanks or pits shall be covered with a wire screen or plastic/nylon netting to prevent entry by birds and other wildlife.
7. This approval does not constitute right-of-way approval for any off lease activities. If water is transported via a pipeline that extends beyond the lease boundary, you need to submit within 30 days an application for right-of-way approval to the Realty Section in this office if you have not already done so.