

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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)

660/N 660/E
Unit A Section 31-T19S-R24E

5. Lease Designation and Serial No.

NM 76936

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Sunflower AHW Fed. #2

9. API Well No.

3001527525

10. Field and Pool or Exploratory Area
See report Brown Abo
Undesignated Abo

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 directionally 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 150 bbls of water per day from the Undesignated Abo formation. The water is stored in a 210 barrel stock tank and pipelined to the State CO SWD #1 permit #SWD-285.

A water analysis is attached.

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

Signed

Kelli Orr

Title Production Clerk

Date

4-4-94

(This space for Federal or State office use)

Approved by Shannon J Shaw

Title

PETROLEUM ENGINEER

Date

4/20/94

Conditions of approval, if any:

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

RECEIVED
APR 6 10 47 AM '94

TRETOLITE

Chemicals and Services

PETROLITE

16010 Barker's Point Lane • Houston, Texas 77079
713 558-5200 • Telex: 4620346 • FAX: 713 589-4737

Reply to: P.O. Box FF
Artesia, New Mexico 88210
(505) 746-3588 Phone
(505) 746-3580 Fax

WATER ANALYSIS REPORT

Company : YATES PETROLEUM
Address : ARTESIA, NEW MEXICO
Lease : SUNFLOWER
Well : #2
Sample Pt. : WELLHEAD

Date : 11/02/93
Date Sampled : 11/02/93
Analysis No. : 403

ANALYSIS		mg/L		* meq/L
-----		----		-----
1. pH	6.1			
2. H2S	160 PPM			
3. Specific Gravity	1.055			
4. Total Dissolved Solids		88159.7		
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	1146.0	HCO3	18.8
12. Chloride	Cl	54954.0	Cl	1550.2
13. Sulfate	SO4	2000.0	SO4	41.6
14. Calcium	Ca	9940.0	Ca	496.0
15. Magnesium	Mg	6175.8	Mg	508.1
16. Sodium (calculated)	Na	13943.9	Na	606.5
17. Iron	Fe	NR		
18. Barium	Ba	NR		
19. Strontium	Sr	NR		
20. Total Hardness (CaCO3)		50250.0		

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter		Compound	Equiv wt X meq/L	=	mg/L
-----	-----	-----	-----	-----	-----
496	*Ca <----- *HCO3	Ca(HCO3)2	81.0	18.8	1522
-----	/----->	CaSO4	68.1	41.6	2835
508	*Mg -----> *SO4	CaCl2	55.5	435.6	24170
-----	<----->/	Mg(HCO3)2	73.2		
607	*Na -----> *Cl	MgSO4	60.2		
-----		MgCl2	47.6	508.1	24188
Saturation Values Dist. Water 20 C		NaHCO3	84.0		
CaCO3	13 mg/L	Na2SO4	71.0		
CaSO4 * 2H2O	2090 mg/L	NaCl	58.4	606.5	35445
BaSO4	2.4 mg/L				

REMARKS:

----- A. MILLER / FILE

Petrolite Oilfield Chemicals Group

Respectfully submitted,
STEVE TIGERT

SCALE TENDENCY REPORT

Company	: YATES PETROLEUM	Date	: 11/02/93
Address	: ARTESIA, NEW MEXICO	Date Sampled	: 11/02/93
Lease	: SUNFLOWER	Analysis No.	: 403
Well	: #2	Analyst	: STEVE TIGERT
Sample Pt.	: WELLHEAD		

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

S.I. =	0.8	at	60 deg. F	or	16 deg. C
S.I. =	0.9	at	80 deg. F	or	27 deg. C
S.I. =	1.0	at	100 deg. F	or	38 deg. C
S.I. =	1.0	at	120 deg. F	or	49 deg. C
S.I. =	1.1	at	140 deg. F	or	60 deg. C

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

S =	1492	at	60 deg. F	or	16 deg C
S =	1649	at	80 deg. F	or	27 deg C
S =	1751	at	100 deg. F	or	38 deg C
S =	1801	at	120 deg. F	or	49 deg C
S =	1838	at	140 deg. F	or	60 deg C

Petrolite Oilfield Chemicals Group

Respectfully submitted,
STEVE TIGERT

YATES PETROLEUM CORPORATION

SALT WATER DISPOSAL WELLS IN NEW MEXICO

September 1, 1992

						APPROXIMATE BWP/M	AVERAGE INJECTION PRESSURE	INJECTION INTERVAL	
FOREMAN	LEASE #	WELL NAME	LOCATION	ORDER #	DISPOSED OF				
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		
HLER	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	MIMOSA AHS #4	4-20S-24E	SWD-474	166593	468	9836-11159 (OH)		
CHAVEZ	039834-001	MIMOSA AHS FEDERAL #1	4-20S-24E	SWD-408	105334	920	9515-11011		
ATKINS	040010-002	MITCHELL IN #2	23-17S-25E	R-5602	26312	55	8879-9362		
HLER	043620-001	OSAGE #1	21-19S-25E	SWD-336	42720	1431	7672-7813		
HANES	043844-013	PATHFINDER AFT STATE #13	21-10S-27E	SWD-415	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		
DEHLER	051990-001	STATE CO #1	36-19S-24E	SWD-285	93415	1327	10025-11311		
CHAVEZ	052125-001	STATE D #1	16-20S-24E	SWD-395	95234	1450	10000-11052		
PERRY	052526-001	STONEWALL YE STATE #1	30-20S-28E	R-8265	14365	657	2595-3685		
HANES	052844-002	SUN UW FEDERAL #2	10-8S-33E	R-8271	14581	1176	4219-4308		
HORNER	052888-002	SWAN VB STATE #2	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 Order No. 7 (Disposal of Produced Water).
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, 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, then 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.