Form 3160-5 (June 1990)

12.

UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

	FOR	M APPRO	OVED
E	Budget B	Bureau No.	1004-013
F	xpires:	March 31	1993

5. Lease Designation and Serial No.

NM-13621

Change of Plans

New Construction

Non-Routine Fracturing

SUNDRY NOTICES AND REPORTS ON to not use this form for proposals to drill or to deepen or reentry to Use "APPLICATION FOR PERMIT-" for such	6. If Indian, Allottee or Tribe Name		
SUBMIT IN TRIPLICATE	watery &D	7. If Unit or CA, Agreement Designation	
Type of Well Oil Sas Well Other	- par 0 to 19 92	8. Well Name and No.	
Name of Operator		Amoco QT #2	
YATES PETROLEUM CORPORATION	1		
Address and Telephone No.	30-015-25367 10. Field and Pool, or Exploratory Area		
105 S. 4th Street, Artesia, NM 88210 (505) 748 Location of Well (Footage, Sec., T., R., M., or Survey Description	Antelope Sink Upper Penn		
660' FSL & 660' FEL, Sec. 29-19S-24E		11. County or Parish, State Eddy, New Mexico	
CHECK APPROPRIATE BOX(s) TO INDICATE 1	NATURE OF NOTICE, RE	PORT, OR OTHER DATA	
TYPE OF SUBMISSION			

Final Abandonment Notice	Casing Repair	Water Shut-Off
I had reality men I voice	Altering Casing	Conversion to Injection
	Other —	X Dispose Water
		(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

Abandonment

Recompletion

Plugging Back

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 5 bbls of water per month from the Canyon formation. The water is stored in a 210 barrel stock tank and transported by O.K. Hot Oil, or Jim's Water Service to the Yates' State "Co" SWD Gathering System which consists of 9 disposal wells (see attachment 1).

A water analysis is attached.

Notice of Intent

X Subsequent Report

I hereby certify that the foregoing is true and correct Signed	Title Production Clerk	Date //-/9-92
(This space for Federal or State office use) Sing Signal by Approved by	Title	Date 11/24/92
Conditions of approval, if any: - SEE ATTACHED-		

^{13.} Describe Proposed or Completed Operatons (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.)*

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:

- This agency be notified of any change in your method or location of disposal.
- 2. Compliance with all provisions of NTL-2B.
- 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 shall be covered with a wire screen to prevent entry by birds and other wildlife.
- 7. This approval should not constitute the granting of any right-of-way or construction rights not granted by the lease instrument.
- 8. 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.

ATTACHMENT #1

YATES PETROLEUM CORPORATION - STATE "CO" SWD DISPOSAL SYSTEM

The Yates State "CO" SWD water gathering system consists of nine (9) salt water injection wells approved for disposal of produced water. The nine (9) wells are listed below:

STATE "CO" #1, NE 1/4 SW 1/4, Section 36-T19S-R24E, Eddy County, NM INJECTION INTERVAL: 10038 -11311' Devonian APPROVED BY NMOCD ORDER NO. SWD-285

COTTON "MX" FEDERAL #1, NE 1/4 NW 1/4 Section 14-T19S-R25E, Eddy County, NM INJECTION INTERVAL: 7686-7710' Canyon APPROVED BY NMOCD ORDER NO. SWD-370

DONAHUE FEDERAL #1, SW 1/4 NW 1/4, Section 10-T20S-R24E, Eddy County, NM INJECTION INTERVAL: 4296-4596' Abo APPROVED BY NMOCD ORDER NO. SWD-377

STATE "D" #1, SE 1/4 SW 1/4, Section 16-T20S-R24E, Eddy County, NM INJECTION INTERVAL: 9723-11052' Devonian - Bliss APPROVED BY NMOCD ORDER NO. SWD-395

ROY AET #3, SE 1/4 SE 1/4, Section 7-T19S-R25E, Eddy County, NM INJECTION INTERVAL: 9766-11110' Devonian and Ellenburger APPROVED BY NMOCD ORDER NO. SWD-437

ROUTH NU #2, NW 1/4 NE 1/4, Section 14-T19S-R24E, Eddy County, NM INJECTION INTERVAL: 8810-8878' Morrow APPROVED BY NMOCD ORDER NO. SWD-399

MIMOSA AHS FEDERAL #1, NE 1/4 SE 1/4, Section 4-T20S-R24E, Eddy County, NM INJECTION INTERVAL: 9515-11011' Mississippian, Devonian, Ellenburger APPROVED BY NMOCD ORDER NO. SWD-408

MIMOSA AHS FEDERAL #4, SE 1/4 SW 1/4, Section 4-T20S-R24E, Eddy County, NM INJECTION INTERVAL: 9860-11159' Devonian, Ellenburger and Bliss Sand APPROVED BY NMOCD ORDER NO. SWD-476

HUMBLE SWD #1, SE 1/4 SE 1/4, Section 24-T20S-R24E, Eddy County, NM INJECTION INTERVAL: 9600-11580' Ellenburger and Devonian (Open Hole) APPROVED BY NMOCD ORDER NO. SWD-434

TRETOLITE°

Chemicals and Services



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 : YAETES PETROLEUM Address

Date

Lease

: ARTESIA, NEW MEXICO : AMOCO "CQ" : #2

Date : 11/16/92 Date Sampled : 11/12/92 Analysis No. : 230

Well

Sample Pt.

	ANALYSIS			mg/L		* meq/L
1.	Н	6.3		~		
2.	H2S	3 PPM				
3.	Specific Gravity	1.075				
4.	Total Dissolved Solid			114539.1		
5.	Suspended Solids			NR		
6.	Dissolved Oxygen			NR		
7.	Dissolved CO2			NR		
8.	Oil In Water			NR		
9.	Phenolphthalein Alkal	inity (C	aCO3)			
10.	Methyl Orange Alkalir	nity (Cac	:03)			
11.	Bicarbonate		HCO3	207.0	HCO3	3.4
12.			Cl	70716.0	Cl	1994.8
	Sulfate		S04	50.0	SO4	1.0
14.	Calcium		Ca	6400.0	Ca	319.4
15.	Magnesium		Mg	1631.6	Mg	134.2
16.	Sodium (calculated)		Na	35534.5	Na	1545.7
17.	Iron		Fe	NR		
18.	Barium		Ba	NR		
	Strontium		Sr	NR		
20.	Total Hardness (CaCO3	5)		22700.0		

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter	· 	Compound	Equiv wt	X meq/L	= mg/L
319 *Ca < *HCO3 /> 134 *Mg> *SO4 /	/> Mg> *S04 1	Ca (HCO3) 2 CaSO4 CaCl2 Mg (HCO3) 2	81.0 68.1 55.5 73.2	3.4 1.0 314.9	275 71 17475
1546 *Na> *Cl' ++ Saturation Values Dist. Wate CaCO3 13 mg		MgSO4 MgCl2 NaHCO3 Na2SO4	60.2 47.6 84.0	134.2	6390
	r/L	NaCl	71.0 58.4	1545.7	90328

REMARKS:

----- L. MALLETT / FILE

Petrolite Oilfield Chemicals Group

Respectfully submitted, STEVE TIGERT

PETROLITE

SCALE TENDENCY REPORT

Date : 11/16/92
Date Sampled : 11/12/92
Analysis No. : 230
Analyst : STEVE TIGERT : YAETES PETROLEUM Company Address : ARTESIA, NEW MEXICO

: AMOCO "CQ" : #2 Lease

Well Sample Pt.

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

s.i. =0.2 at 80 deg. F or 27 deg. C 0.2 at 100 deg. F or 38 deg. C s.I. = S.I. = 0.3 at 120 deg. F or 49 deg. C **S.I.** = 0.4 at 140 deg. F or 60 deg. C s.i. =0.5 at 160 deg. F or 71 deg. C

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

2279 at 80 deg. F or 2416 at 100 deg. F or 27 deg C 38 deg C S = 2482 at 120 deg. F or S = 2530 at 140 deg. F or S = 2503 at 160 deg. F or 49 deg C 60 deg C 71 deg C

Petrolite Oilfield Chemicals Group

Respectfully submitted, STEVE TIGERT