Form 3160-5 (June 1990)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

L CONSERVATION DIV.
611 S. 1st ST.
ARTESIA, NEPROSPEZZOSAD
Budget Bureau No. 1004-0135

TION DIV C | S F

Budget Bureau No. 1004-01 Expires: March 31, 1993

NM 78215

5. Lease Designation and Serial No.

SUNDRY NOTICES AND REPOR	6. If Indian, Allottee or Tribe Name							
Do not use this form for proposals to drill or to deepen Use "APPLICATION FOR PERMIT-								
SUBMIT IN TRIP	7. If Unit or CA, Agreement Designation							
1.1ype of Well Oil Gas Well Well Other 2. Name of Operator	/	8. Well Name and No. Hickory ALV Federal #1						
YATES PETROLEUM CORPORATION ,	9. API Well No.							
3. Address and Telephone No.	- 30-015-10566 10. Field and Pool, or Exploratory Area							
105 S. 4th Street, Artesia, NM 88210 4. Location of Well (Footage, Sec., T., R., M., or Survey Description	E. Indian Basin U/Penn Assoc.							
Unit F, 1650' FNL & 1650' FWL, Sec. 17-T2	11. County or Parish, State Eddy, NM							
12. CHECK APPROPRIATE BOX(s) TO I	CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA							
TYPE OF SUBMISSION								
Notice of Intent	Abandoninjent	Change of Plans						
$\overline{\overline{\mathbf{X}}}$ Subsequent Report	Recompletion Plugging Back 1467 1 A 1006	New Construction						
Final Abandonment Notice	Plugging Back MAN 1 3 1895 Casing Repair	Non-Routine Fracturing Water Shut-Off						
	Altering Casing	Conversion to Injection						
	Other State	X Dispose Water						
		(Note: Report results of multiple completion on Weil Completion or Recompletion Report and Log form.)						

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.)*

Yates Petroleum Corporation is submitting application for produced water from the above well pursusant to Order #7 and requests your approval. The well at present produces 46.48 Bbls. of water per day from the East Indian Basin U/Penn Assoc.. The water is stored in two 500 Bbl. fiberglass tank and piped to the Dagger Draw State CO Water Gathering System (see attached).

A water analysis is attached.

14. I hereby certify that the foregoing is true and correct Signed Amula A. Evan	Title Production Clerk	Date 04/17/96
(This space for Federal or State office use)		
Approved by	Title	Date
Conditions of approval, if any:		(10 ~
Title 18 U.S.C. Section 1001, makes it a crime for any pers statements or representations as to any matter within its jur	son knowingly and willfully to make to any department or ager isdiction.	ncy of the United States any false, fictitious or fraudulent

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 NMCCD 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 NMCCD 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 NMCCD 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 NMCCD ORDER NO. SWD-395

ROY AET #3, SE 1/4 SE 1/4, Section 7-T19S-R25E, Eddy County, NM INJECTION INTERVAL: 9756-11110' 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 NMCCD 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 DIVISION

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

> Reply to: P.O. Box 1140 Artesia, NM 88211-7531

WATER ANALYSIS REPORT ______

: YATES PETROLEUM Date : 4/15/95 Company Date Sampled: 4/15/96 Address : ARTESIA, NM Lease : HICKORY "ALV" Analysis No.: 00264

: #1 Well

Sample Pt. : WELLHEAD

	ANALYSIS			mg/L		* meq/L
1.	рН	7.3				
2.	H2S	120				
3.	Specific Gravity	1.005				
4.	Total Dissolved Solids		8097.7			
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	704.0	HCO3	11.5
12.	Chloride		Cl	2330.0	Cl	65.7
13.	Sulfate		SO4	2500.0	SO4	52.1
14.	Calcium		Ca	940.0	Ca	46.9
15.	Magnesium		Mg	304.2	Mg	25.0
16.	Sodium (calculated)		Na	1319.4	Na	57.4
17.	Iron		Fe	NR		
18.	Barium		Ba	NR		
19.	Strontium		Sr	NR		
20.	Total Hardness (CaCO3)		3600.0		

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter Compound Equiv wt X meq/L = mg/L+----+ +----+ 47 | *Ca <---- *HCO3 | 12 | Ca(HCO3)2 81.0 11.5 935 |----> |----| CaSO4 68.1 | 52| CaCl2 55.5 35.4 2407 25| *Mg ----> *SO4 |----| |----| Mg(HCO3)2 73.2 MgSO4 60.2 MgCl2 47.6 57¦ *Na ----> *Cl 66 16.7 1005 MgC12 +----+ 8.3 397 NaHCO3 84.0 Saturation Values Dist. Water 20 C Na2SO4 CaCO3 13 mg/L71.0 CaSO4 * 2H2O 2090 mg/L 58.4 57.4 3354 NaCl

REMARKS:

BaSO4

2.4 mg/L

SCALE TENDENCY REPORT

Company : YATES PETROLEUM Date : 4/15/95
Address : ARTESIA, NM Date Sampled : 4/15/96
Lease : HICKORY "ALV" Analysis No. : 00264
Well : #1 Analyst : A. MILLER

Sample Pt. : WELLHEAD

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

S.I. = 1.1 at 60 deg. F or 16 deg. C S.I. = 1.1 at 80 deg. F or 27 deg. C S.I. = 1.2 at 100 deg. F or 38 deg. C S.I. = 1.2 at 120 deg. F or 49 deg. C S.I. = 1.3 at 140 deg. F or 60 deg. C

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

S = 2526 at 60 deg. F or 16 deg C S = 2628 at 80 deg. F or 27 deg C S = 2670 at 100 deg. F or 38 deg C S = 2668 at 120 deg. F or 49 deg C S = 2657 at 140 deg. F or 60 deg C

Petrolite Oilfield Chemicals Group

Respectfully submitted, A. MILLER