

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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)

Section 3-T24S-R29E 1980' FNL & 1980' FEL Unit G SWNE

NM OIL CON-
Drawer DD
Artesia, NM 88210
FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No.

NM-85891

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Knoll AOK Federal #1

9. API Well No.

3001528127

10. Field and Pool, or Exploratory Area

Cedar Canyon Bone Springs

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.)

RECEIVED

JUL 18 1995

OIL CON. DIV.

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 45 bbls of water per day from the Cedar Canyon Bone Springs formation. The water is stored in a 210 barrel stock tank and transported by B & E Inc. to the Flower AGA ST. #2 permit #SWD-325.

A water analysis is attached.

RECEIVED
APR 7 11 03 AM 1995
CARL AREA

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

Signed Shannon Coupland

Title Production Clerk

Date 4-6-95

(This space for Federal or State office use)

Approved by Grand Signed by Adnan Salameh

Title Petroleum Engineer

Date 7/14/95

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

TRETOLITE DIVISION

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

 WATER ANALYSIS REPORT

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

Company : YATES PETROLEUM Date : 2/14/95
 Address : ARTESIA, NM Date Sampled : 2/13/95
 Lease : KNOLL FEDERAL Analysis No. : 0030
 Well : #1
 Sample Pt. : WELLHEAD

ANALYSIS		mg/L		* meq/L
-----		----		-----
1. pH	5.8			
2. H ₂ S	0			
3. Specific Gravity	1.110			
4. Total Dissolved Solids		181884.9		
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	463.0	HCO ₃	7.6
12. Chloride	Cl	109908.0	Cl	3100.4
13. Sulfate	SO ₄	375.0	SO ₄	7.8
14. Calcium	Ca	2600.0	Ca	129.7
15. Magnesium	Mg	123.2	Mg	10.1
16. Sodium (calculated)	Na	68415.7	Na	2975.9
17. Iron	Fe	NR		
18. Barium	Ba	NR		
19. Strontium	Sr	NR		
20. Total Hardness (CaCO ₃)		7000.0		

 PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter		Compound	Equiv wt X meq/L	= mg/L

130 *Ca <----- *HCO ₃	8	Ca(HCO ₃) ₂	81.0	615
/----->		CaSO ₄	68.1	531
10 *Mg -----> *SO ₄	8	CaCl ₂	55.5	6345
<-----/		Mg(HCO ₃) ₂	73.2	
2976 *Na -----> *Cl	3100	MgSO ₄	60.2	
-----		MgCl ₂	47.6	482
Saturation Values Dist. Water 20 C		NaHCO ₃	84.0	
CaCO ₃ 13 mg/L		Na ₂ SO ₄	71.0	
CaSO ₄ * 2H ₂ O 2090 mg/L		NaCl	58.4	173911
BaSO ₄ 2.4 mg/L				

 REMARKS:

Petrolite Oilfield Chemicals Group

 Respectfully submitted,
 A. MILLER

SCALE TENDENCY REPORT

Company	: YATES PETROLEUM	Date	: 2/14/95
Address	: ARTESIA, NM	Date Sampled	: 2/13/95
Lease	: KNOLL FEDERAL	Analysis No.	: 0030
Well	: #1	Analyst	: A. MILLER
Sample Pt.	: WELLHEAD		

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

S.I. =	-0.4	at	60 deg. F	or	16 deg. C
S.I. =	-0.3	at	80 deg. F	or	27 deg. C
S.I. =	-0.3	at	100 deg. F	or	38 deg. C
S.I. =	-0.2	at	120 deg. F	or	49 deg. C
S.I. =	-0.2	at	140 deg. F	or	60 deg. C

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

S =	4248	at	60 deg. F	or	16 deg C
S =	4598	at	80 deg. F	or	27 deg C
S =	4816	at	100 deg. F	or	38 deg C
S =	4923	at	120 deg. F	or	49 deg C
S =	5002	at	140 deg. F	or	60 deg C

Petrolite Oilfield Chemicals Group

Respectfully submitted,
A. MILLER

Creek AL #3
Meridian Flood #4 System
R-3431
29-185-31E
30-185-31E

Knall AOK Fed #1
Flower ABA ST #2
SWD #325
3-265-28E SE $\frac{1}{4}$ NE $\frac{1}{4}$

Alama #1
Flamenco SWD
SWD #428 NW $\frac{1}{4}$ SW $\frac{1}{4}$
7-225-32E

Peotillo #2 } see attached
Warren #2 }
State CO Wt System

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: 7688-7710' 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 18-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