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N. M. DEPT. OF THE INTERIOR
P.O. BOX 1000
HOORSE, NEW MEXICO 87001
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

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

5. Lease Designation and Serial No.

LC-032450(2)

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

890000578 X

8. Well Name and No.

South Matix Fed.-A-#5

9. API Well No.

30-025-11201

10. Field and Pool, or Exploratory Area

Fowler-Fusselman

11. County or Parish, State

Lea, NM

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Amoco Production Company

3. Address and Telephone No.

P.O. Box 3092 Houston, TX 77253 713-584-7213 Rm. 17.184

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

1980' FNLX 660' FEL

Sec. 22, T-24-S, R-37-E

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

TYPE OF SUBMISSION

☒ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment

☐ Recompletion

☐ Plugging Back

☐ Casing Repair

☐ Altering Casing

☒ Other Disposal

☐ 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.)

Amoco hereby requests approval to amend our disposal site for subject property. Shown below is detailed information on the site:

1) Formation Producing Water: Fusselman

2) Average Barrels of Water per day: 130

3) Water Storage: One 500 bbl. Tank

4) Method of Water Transport: Trucked by Roland Trucking

5) Disposal Name: Parabo, Inc.

SW1/4, Sec. 29, T-21-S, R-38-E

Nmoco ORDER R-5516

Lea County, New Mexico

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

Signed H. J. Black (H. J. BLACK)

Title Staff Business Analyst

Date 3-20-93

(This space for Federal or State office use)

Approved by (ORIG. SGD.) DAVID R. GLASS

Title PETROLEUM ENGINEER

Date JUN 21 1993

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.

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JUN 23 1993

U.S. AIR FORCE
AFMOT

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. That 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.

WELCHEM

WELCHEM, INC.
706 N. Main
P.O. Box 179
Seminole, Texas 79360-0179
915-758-5867

LATS NO. 61305



ANALYTICAL SERVICES REPORT WATER ANALYSIS

Date Received: 05/06/93

By: AH

Date Out: 05/10/93

Company: AMOCO PRODUCTION COMPANY
Salesman: WHITE
Lease: S. MATTIX UNIT
Source:

Date Sampled: 04/29/93
County: LEA
State: NM
Well: 5

DISSOLVED SOLIDS CATIONS

	mg/l	me/l
Sodium, Na(calc)	16636.0	723.34
Calcium, Ca	7000	349.3
Magnesium, Mg	4000	327.87
Potassium, K	900	23.02
Iron, Fe	5.0	0.18
Manganese, Mn	.1	0.0

OTHER PROPERTIES

pH	7.11
Specific Gravity, 60/60 F	1.058
Nomograph Sp. Gr.	1.050- 1.060
Specific Gravity, Uncorr	1.056
Temperature (F)	72.1
Resistivity, OHMS-CM	10 @ 72.1F

ANIONS

	mg/l	me/l
Chloride, Cl	48800	1374.65
Sulfate, SO4	1750	36.46
Carbonate, CO3	0	0.0
Bicarbonate, HCO3	769	12.61

Total Dissolved Solids (calc.) 79,860 ppm

SCALING TENDENCIES (MG/L):

TEMP (F)	P (PSI)	CO2 (PSI)	PH	CASO4	SCALE INDEX (MG/L)		
					BASO4	SRSO4	CACO3
80	14.7	0.625	7.2	-167	-0	-203	159
110	14.7	0.625	7.2	432	-0	-206	265
140	14.7	0.625	7.2	797	-0	-177	353
170	14.7	0.625	7.2	1078	-1	-142	424
200	14.7	0.625	7.1	1300	-1	-129	473

Remarks & Recommendations:

Calculations based upon entered pH.

WELCHEM Representative

WELCHEMWELCHEM, INC.
706 N. Main
P.O. Box 179
Seminole, Texas 79360-0179
915-758-5367

LATS NO. 60304

**ANALYTICAL SERVICES REPORT
BACTERIA**

Date Received: 03/22/93

BY: LS

Date Out: 04/16/93

Company: AMOCO PRODUCTION COMPANY
Salesman: WHITE
Lease: S. MATTIX UNIT
Source: INJECTION WATERDate Sampled: 03/19/93
County: LEA
State: NM
Well:**BACTERIA CULTURE COUNTS**Thioglycollate
(Sulfate Reducing)

Bacteria/ml	03-20	03-24	03-29	04-16
1 to 9	-	+	+	+
10 to 99	-	-	-	-
100 to 999	-	-	-	-
1000 to 9999	-	-	-	-
10000 to 99999	-	-	-	-

API - AEROBIC

Bacteria/ml	03-20	03-24	03-29	04-16
1 to 9	-	-	-	-
10 to 99	-	-	-	-
100 to 999	-	-	-	-
1000 to 9999	-	-	-	-

WELCHEM Representative

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WELCHEMWELCHEM, INC.
706 N. Main
P.O. Box 179
Seminole, Texas 79360-0179
915-758-5867

LATS NO. 60314-60314

ANALYTICAL SERVICES REPORT
OIL IN WATER

Date Received: 03/22/93

BY: LS

Date Out: 03/30/93

Company: AMOCO PRODUCTION COMPANY
Salesman: WHITE
Lease: S. MATTIX UNIT
Source: INJECTION WATERDate Sampled: 03/19/93
County: LEA
State: NM
Well:

LAB #	WELL #	SOURCE	ppm
60314	SMU	INJECTION WATER	112

Remarks and Recommendations:

A BLANK DATA FIELD INDICATES THE DATA IS UNAVAILABLE

WELCHEM Representative

WELCHEMWELCHEM, INC.
708 N. Main
P.O. Box 179
Seminole, Texas 79360-0179
915-758-5667

LATS NO. 60299-60299

ANALYTICAL SERVICES REPORT
MEMBRANE FILTER

Data Received: 03/22/93

By: LS

Date Out: 03/26/93

Company: AMOCO PRODUCTION COMPANY
Salesman: WHITE
Lease: S. MATTIX UNITDate Sampled: 03/19/93
County: LEA
State: NM

ANALYTICAL RESULTS

Sample Source: INJECTION WATER
Filter Number: 2
Test Pressure: 20 psigLATS Number: 60299
Well Number:

WATER QUALITY RESULTS

TSS	29.0 mg/l
TSS (w/o HC)	5.4 mg/l
MTSN	-3.7
RPI	32.7
TOTAL VOLUME	500 ml
Bacteria Stain	Heavy

SOLIDS RESULTS

	%wt/w
Hydrocarbons	81.
Water Soluble Salts	6.
Carbonates	4.
Iron Compounds	4.
Insoluble Residue	2.

Remarks & Recommendations:

A BLANK DATA FIELD INDICATES THE DATA IS UNAVAILABLE

WELCHEM Representative

WELCHEM706 N. Main
P.O. Box 179
Seminole, Texas 79360-0179
915-758-5567

LATS NO. 60309

**ANALYTICAL SERVICES REPORT
WATER ANALYSIS**

Date Received: 03/22/93

By: LS

Date Out: 04/05/93

Company: AMOCO PRODUCTION COMPANY
Salesman: WHITE
Lease: S. MATTIX UNIT
Source: INJECTION WATERDate Sampled: 03/19/93
County: LEA
State: NM
Well:**DISSOLVED SOLIDS
CATIONS**

	mg/l	me/l
Sodium, Na(calc)	35132.0	1527.48
Calcium, Ca	12000	598.8
Magnesium, Mg	4000	327.37
Potassium, K	2000	51.15
Iron, Fe	.9	0.03
Manganese, Mn	.3	0.01

OTHER PROPERTIES

pH	6.54
Specific Gravity, 60/60 F	1.101
Nomograph Sp. Gr.	1.092- 1.10
Specific Gravity, Uncorr	1.098
Temperature (F)	74.7
Resistivity, OHMS-CM	6 @ 74.7F

O2 = 0
H2S = 200**ANIONS**

	mg/l	me/l
Chloride, Cl	87400	2461.97
Sulfate, SO4	1650	34.38
Carbonate, CO3	0	0.0
Bicarbonate, HCO3	549	9.0

Total Dissolved Solids (calc.) 142,732 ppm

SCALING TENDENCIES (MG/L):

TEMP (F)	P (PSI)	CO2 (PSI)	PH	CASO4	SCALE INDEX (MG/L)		
					BASO4	SRSO4	CACO3
80	14.7	10.000	6.6	268	-0	-249	-609
110	14.7	10.000	6.6	778	-0	-228	-366
140	14.7	10.000	6.6	1050	-1	-203	-167
170	14.7	10.000	6.6	1250	-1	-219	-7
200	14.7	10.000	6.6	1398	-1	-216	101

Remarks & Recommendations:

Calculations based upon entered pH.

WELCHEM Representative

Lucia Hunter