

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

5. Lease Designation and Serial No.
NM-04591

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.
McAlpine Fed #1

9. API Well No. 312-025-
31253

10. Field and Pool, or Exploratory Area
EK Delaware

11. County or Parish, State
Lea, NM

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

Santa Fe Energy Operating Partners, LP

3. Address and Telephone No.

P. O. Box 2327 Carlsbad, Nm 88221-2327

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

Unit E 1830 FNL, 660 FWL
Sec 19 T18S, R34E

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 Produced Water 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.)*

A - EK Delaware

B - 75 barrels

C - See attached page (water analysis)

D - 500 Bbls. Steel Storage Tank

E - Truck - Gandy's Trucking

F/G Ray Westall, Tennessee, NE $\frac{1}{4}$ of SE $\frac{1}{4}$
S-21 T-19-S R-31-E NM-no. R-8173
Alternant: Marlow Inc., Arco State #2, SW $\frac{1}{4}$ of SE $\frac{1}{4}$
S16, T18S, R35E NM-no. 312

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

Signed

R. L. "Pete" Stull

Title

AREA Supt.

Date

7-9-93

(This space for Federal or State office use)

Approved by (ORIG. SGD.) JOE G. LARA

Title

Petroleum Engineer

Date

JUL 20 1993

Conditions of approval, if any:



TRETOLITE

PETROLITE

16010 Barker's Point Lane, Suite 450
Houston, Texas 77079-4021
713 558-5200 • Fax: 713 589-4737

Reply to: P.O. Box 5250
Hobbs, New Mexico 88241
505 392 6711 Phone
505 392-3759 Fax

WATER ANALYSIS REPORT

Company : SANTA FE ENERGY
Address :
Lease : MCALPINE FEDERAL
Well : #1
Sample Pt. : WELLHEAD

Date : 5/18/93
Date Sampled : 5/16/93
Analysis No. : 477

ANALYSIS		mg/L		* meq/L
1. pH	6.4			
2. H2S	3 PPM			
3. Specific Gravity	1.160			
4. Total Dissolved Solids		261719.3		
5. Suspended Solids		NR		
6. Dissolved Oxygen		NR		
7. Dissolved CO2		260 PPM		
8. Oil In Water		NR		
9. Phenolphthalein Alkalinity (CaCO3)				
10. Methyl Orange Alkalinity (CaCO3)		70.0		
11. Bicarbonate	HCO3	85.4	HCO3	1.4
12. Chloride	Cl	161687.1	Cl	4561.0
13. Sulfate	SO4	450.0	SO4	9.4
14. Calcium	Ca	18124.2	Ca	904.4
15. Magnesium	Mg	3301.3	Mg	271.6
16. Sodium (calculated)	Na	78068.5	Na	3395.8
17. Iron	Fe	2.7		
18. Barium	Ba	NR		
19. Strontium	Sr	NR		
20. Total Hardness (CaCO3)		58852.9		

COPY

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter	Compound	Equiv wt X meq/L	= mg/L
904 *Ca <----- *HCO3	Ca (HCO3) 2	81.0 1.4	113
272 *Mg -----> *SO4	CaSO4	68.1 9.4	638
3396 *Na -----> *Cl	CaCl2	55.5 893.6	49587
	Mg (HCO3) 2	73.2	
	MgSO4	60.2	
	MgCl2	47.6 271.6	12930
	NaHCO3	84.0	
	Na2SO4	71.0	
	NaCl	58.4 3395.8	198448

Saturation Values Dist. Water 20 C
CaCO3 13 mg/L
CaSO4 * 2H2O 2090 mg/L
BaSO4 2.4 mg/L

REMARKS:

R. HARDIN /FILE

Petrolite Oilfield Chemicals Group

Respectfully submitted,
ROZANNE JOHNSON

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 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 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.