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Form 3160-5  
(June 1990)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

FEB 16 10 46 AM '94

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

5. Lease Designation and Serial No.  
NM-34850

6. If Indian, Allottee or Tribe Name

7. If Unit or CA. Agreement Designation

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well  Gas Well  Other

2. Name of Operator

Santa Fe Energy Operating Partners, L.P.

3. Address and Telephone No.

550 W. Texas, Suite 1330, Midland, Texas 79701

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

(C), 760' FNL and 2080' FWL, Sec. 22, T-19S, R-33E

8. Well Name and No.  
Amethyst 22 Federal #1

9. API Well No.  
30-025-30928

10. Field and Pool, or Exploratory Area  
Gem (Morrow)

11. County or Parish, State  
Lea Co., NM

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
- 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.)\*

SFEOP,LP plans to recompleate the above referenced well in the Morrow. Current Atoka perms (12,635'-12,638') will be squeezed with 75 sx Class "H" containing 0.5% Halad 322 and 0.1% HR-7. An engineer will be on location for squeeze procedure. The Morrow zone will be perforated w/ 1 shot per 2 feet as follows:

- 13,248-52' (3 holes)
- 13,346-54' (5 holes)
- 13,360-66' (4 holes)
- 13,416-26' (6 holes)
- 13,430-32' (2 holes)

If the zone does not produce natuarally, stimulation w/ 3000 gals 7½% HCl acid containing 40 ball sealers will be performed. If a Morrow producer results, a 48 hour BHP test and 4-point test will be run.

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

Signed Shannon J. Shaw Title Sr. Production Clerk Date 2/17/94

(This space for Federal or State office use)

Approved by Shannon J. Shaw Title ENGINEER Date 3/2/94

Conditions of approval, if any:

Spud 8-10-90  
 SF WI = 50%  
 SF NRI = 38.75%

Ametrust 22 Fed No. 1

760' FNL & 2080' FWL  
 22-19S-33E, NMPM  
 Lea County, New Mexico

Ref: KB 3672' or 22' AGL

13 3/8" 48# H-40 ST4C @ 435' w/  
 450SX (cmt cive to surf)

8 5/8" 24432# K-55 @ 5254' w/2300 SX  
 TOC 275' (T.S.)

- T. Yates 3283'
- T. 7 Rivers 3522'
- T. Queen 4278'
- T. Grayburg 4737'
- T. San Andres 5028'

T. Delaware 6021'

← TOC 7520' (CBL)

← 2 3/8" 4.7# N-80 ABC

T. Bone Springs 7922'

← 2% KCL w/O2 scw. & Inh.

T. Wolfcamp 11375'

T. Strawn 12155'

Uni-VI @ 12,339' w/12K comp. EOT 12373'

T. Atoka 12428'

12635' Perf thru tbg.  
 12638' Acid w/500, Acid w/1500  
 ADF 2.4 MM. Static 3768# } I.C. 10-90

T. Morrow 12,950'

13248-52  
 13346-54  
 13360-66  
 13416-26  
 13430-32 } Proposed for test

Note: marker collars at  
 8916' & 12,429'

5 1/2" N-80 0-9818'  
 5 1/2" S-95 9818'-TD

TD 13700'

5 1/2" 17# N-80 & S-95 @ 13,700'  
 w/1475SX

11-14-93/AJW