

**N.M. OIL CONS. COMMISS' V**  
**P.O. BOX 1980**

**HOBBS, NEW MEXICO 88240**

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

**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 Resources, Inc.

3. Address and Telephone No.

550 W. Texas, Suite 1330, Midland, TX 79701 915/687-3551

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

(M), 560' FSL & 990' FWL, Sec. 8, T-18S, R-32E

5. Lease Designation and Serial No.

**NM-40449**

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

**Young North AN  
Federal #2**

9. API Well No.

**30-025-30945**

10. Field and Pool, or exploratory Area

**North Young  
Bone Spring**

11. County or Parish, State

**Lea 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

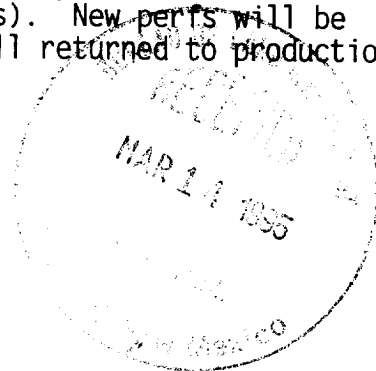
TYPE OF ACTION

- |   |  |
|---|--|
| <input type="checkbox"/> Abandonment              | <input type="checkbox"/> Change of Plans         |
| <input type="checkbox"/> Recompletion             | <input type="checkbox"/> New Construction        |
| <input checked="" type="checkbox"/> Plugging Back | <input type="checkbox"/> Non-Routine Fracturing  |
| <input type="checkbox"/> Casing Repair            | <input type="checkbox"/> Water Shut-Off          |
| <input type="checkbox"/> Altering Casing          | <input type="checkbox"/> Conversion to Injection |
| <input type="checkbox"/> Other _____              | <input type="checkbox"/> 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.)\*

It is planned to set a CIBP @ 8400' (above the existing Bone Springs perfs 8434'-8450') and perforate the Upper Bone Springs at 8160'-8184' w/ 2 SPF (49 holes). New perfs will be stimulated w/ 3000 gal 20% HCl acid w/ 40 ball sealers and the well returned to production. This work is anticipated to start May 1, 1995.



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

Signed

*Harry McCullough*

Title **Sr. Production Clerk**

Date **03/13/95**

(This space for Federal or State office use)

Approved by

**(ORIG. SGD.) JOE G. LARA**

Title

**PETROLEUM ENGINEER**

Date

**3/23/95**

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

SANTA FE ENERGY RESOURCES, INC.  
MIDLAND CENTRAL DIVISION  
CONDITION OF HOLE & PROCEDURE  
RECOMPLETION PROCEDURE

AFE # J95XXX

**DATE:** March 10, 1995

**FIELD:** North Young (Bone Springs)      **LOCATION:** 560' <sup>S</sup>FWL & 990' FWL  
SEC. 8  
T-18-S, R-32-E  
**LSE/UNIT:** Young North "AN" Federal      Lea County, New Mexico

**WELL NO.** 2

**OBJECTIVE:** To set a CIBP above existing Lower Bone Springs perforations and perforate the Upper Bone Springs formation. Acid stimulate the new perforations and place well on production.

**CONDITION OF HOLE:**

**ETD or TOTAL DEPTH:** 10,800'    **PBTD:** 8,670'    **K.B. DATUM IS** 3772'  
**G.L. DATUM IS** 3760'

**CASING RECORD:** 13-3/8" @ 390' (cmt w/450 sx Cl. C, circ'd)  
9-5/8" @ 2471' (cmt w/1000 sx Cl. C, circ'd)  
5-1/2" @ 10,800' (cmt w/1100 sx Cl. H + 700 sx Cl. H, TOC @ 2936' by CBL)

**PERFORATIONS:** Existing 8434'-50' (34 holes)  
Proposed 8160'-84' (49 holes)

**TUBING DETAIL:** 2-7/8" N-80 EUE 8<sup>rd</sup> tbg. @ ±8,489' (w/2.25" SN @ 8489, TA @ 8334')

**ROD & PUMP DETAIL:** 2-1/2"x1-1/2"x26 pump, 26K shear tool, 6-7/8" rods, 56-3/4" rods, 96-7/8" rods, 119-1" FG rods, 2-1"x9' FG subs, 2-1"x6' FG subs

**REGULATORY AGENCY REQUIREMENTS:** Sundry Notice, Form 3160-4.

**PROCEDURE:**

1. MIRU PU. Bleed pressure from well as necessary. ND WH & NU BOP.
2. POH w/rod & pump. Release TAC & POH w/tbg
3. RU WL Co. RU packoff and Run GR-CCL log minimum run to get on depth (correlate w/Schlumberger, Compensated Density/Litho Density Gamma Ray Log, dtd. 08/05/90). Set CIBP @ 8400' (existing perfs @ 8434'-50').
4. Load hole w/2% KCL water & pressure test casing to 2000 psi.

SFEOP, LP  
Young North "AN" Federal No. 2  
Upper Bone Springs - Recompletion  
AFE # J95XXX

5. RIH w/4" HCCG loaded w/22 gr. deep penetrating charges (phased @ 90 deg) and perforate the following intervals @ 2 SPF (correlate w/Schlumberger, Compensated Density/Litho Density Gamma Ray Log, dtd. 08/05/90):

**8160'-84'      (25 shots)**

6. TIH w/2-7/8" tbg and treating pkr to  $\pm 8100'$  and pickle tbg w/500 gals 15% HCL. Reverse circulate acid out of tbg. Set pkr.
7. RU Stimulation Service Company and Acidize perforations 8160'-84' (49 holes) w/3000 gals 20% HCL acid w/40 1.3 SG BS spaced evenly to divert acid. Flush to perforations w/2% KCL water.  
  
ACID SPECIFICATION: 3000 gals 10% HCL Acid  
                          1 gal/1000 Corrosion Inhibitor  
                          1 gal/1000 Surfactant  
                          5 gal/1000 Citric Acid, Iron Control
8. Surge balls from perforations and swab/flow back treatment fluids. Release and lower treating pkr across perfs and POH w/treating packer.
9. TIH w/seating nipple and notched collar on 2-7/8" tbg. Set bottom of tbg above perfs, EOT @  $\pm 8100'$ .
10. RU Stimulation Service Company and Frac down casing per the attached fluid and proppant pumping schedule.
11. Immediately force close well at 1 BPM. SWIFN.
12. Check well for pressure, flow down as necessary until well dies. ND WH. NU BOPE. RIH to fill, reverse out to PBTD. PUH and reset tbg.
13. ND BOPE. NU tree. RU and swab test well to evaluate for pumping equipment. Release pulling unit.
14. Potential test well to frac tank.