

AMEND CTB 2/18/98

Form 3160-5  
(June 1990)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1001-0135  
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.

5. Lease Designation and Serial No.

NM-88134

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

H. B. "11"

Federal Battery

9. API Well No.

10. Field and Pool, or exploratory Area

Pierce Crossing (Bone Spring), East

11. County or Parish, State

Eddy NM

SUBMIT IN TRIPLICATE

JAN 29

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)

(L), Sec. 11, T-24S, R-29E

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  Change of Plans  
 Recompletion  New Construction  
 Plugging Back  Non-Routine Fracturing  
 Casing Repair  Water Shut-Off  
 Altering Casing  Conversion to Injection  
 Other Request commingling  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.)

Santa Fe Energy Resources, Inc. respectfully requests expansion approval for the H. B. "11" Federal Battery (NMOCD CTB No. 448). The attached Application for Surface Commingling, Off-Lease Storage, and Measurement details the expansion plans and battery facilities.

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

Signature

*Janey McCullough*

Title Sr. Production Clerk

Date January 23, 1998

(This space for Federal or State office use)

Approved by \_\_\_\_\_

Title \_\_\_\_\_

Date \_\_\_\_\_

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.

## Application for Surface Commingling, Off-Lease Storage and Measurement Approval

This Format Should Be Attached To A Sundry Notice

To: Mr. Ben Stone  
New Mexico Oil Conservation Division  
2040 S. Pacheco St.  
Santa Fe, NM 87505

**Santa Fe Energy Resources, Inc.** is requesting approval for expansion of surface commingling and off-lease storage (New Mexico commingling order CTB-448) and measurement of hydrocarbon production from the following formation(s) and wells(s) on:

H. B. "11" Federal Battery (located at Unit L, Section 11, T24S, R29E)

Currently approved wells.

<u>Fed. Lease No.</u>	<u>Lease Name</u>	<u>Well #</u>	<u>Location</u>	<u>Formation</u>
NM-88134	H. B. "11" Federal	2	L, 11, T24S, R29E	Bone Spring
NM-88134	H. B. "11" Federal	4	D, 11, T24S, R29E	Bone Spring
NM-88134	H. B. "11" Federal	6	F, 11, T24S, R29E	Bone Spring
NM-85892	H. B. "11" Federal	3	N, 11, T24S, R29E	Bone Spring
NM-88137	H. B. "15" Federal	1	A, 15, T24S, R29E	Bone Spring
NM-85892	H. B. "11" Federal	8	M, 11, T24S, R29E	Bone Spring
NM-88134	H. B. "11" Federal	5	C, 11, T24S, R29E	Bone Spring
NM-88134	H. B. "11" Federal	7	K, 11, T24S, R29E	Bone Spring
NM-88134	H. B. "11" Federal	9	B, 11, T24S, R29E	Bone Spring
NM-88134	H. B. "11" Federal	10	G, 11, T24S, R29E	Bone Spring
NM-88134	H. B. "11" Federal	11	J, 11, T24S, R29E	Bone Spring
NM-88134	H. B. "11" Federal	12	O, 11, T24S, R29E	Bone Spring

Requesting expansion to include the following wells.

NM-81616	H. B. "10A" Federal	8	P, 10, T24S, R29E	Bone Spring
NM-81616	H. B. "10A" Federal	5	J, 10, T24S, R29E	Bone Spring
NM-81616	H. B. "10A" Federal	6	O, 10, T24S, R29E	Bone Spring
NM-81616	H. B. "10A" Federal	7	I, 10, T24S, R29E	Bone Spring

Production from all active and shut-in wells to be commingled as follows:

Currently approved wells.

<u>Well Name and Number</u>	<u>BOPD</u>	<u>Oil Gravity</u>	<u>MCFGPD</u>
H. B. "11" Federal #2	39	44.5	425
H. B. "11" Federal #4	27	44.5	123
H. B. "11" Federal #6	64	44.5	887
H. B. "11" Federal #3	44	44.5	290
H. B. "15" Federal #1	27	44.5	323
H. B. "11" Federal #11	49	44.5	97
**H. B. "11" Federal #5	120	44.5	1000
**H. B. "11" Federal #7	120	44.5	1000

**H. B. "11" Federal #9	120	44.5	1000
**H. B. "11" Federal #10	120	44.5	1000
**H. B. "11" Federal #12	120	44.5	1000
**H. B. "11" Federal #8	120	44.5	1000

Requesting expansion to include the following wells.

H. B. "10A" Federal #8	120	44.5	1000
**H. B. "10A" Federal #5	120	44.5	1000
**H. B. "10A" Federal #6	120	44.5	1000
**H. B. "10A" Federal #7	120	44.5	1000

\*\* Estimated Production rate (well has not been drilled).

**Working interest, royalty interests, and overriding royalty interests are identical in all leases listed above.**

A map (**Exhibit 1**) is enclosed showing the well locations and Federal lease numbers of the four leases that will contribute production to the proposed commingling and common storage facilities.

Schematic diagrams (**Exhibit 2**) are attached which clearly identify the equipment and concept to be utilized for measurement, off-lease storage, and commingling operations.

Currently there are six producers connected to the H. B. "11" Federal Battery (located at Unit L, Section 11, T24S, R29E on NM-88134). The battery, wells, and their locations are shown on Exhibit 1. The BLM will be notified prior to any future change in the facility location.

Details of the proposed method for allocating production to contributing sources are as follows:

The H. B. "11" Federal Battery is equipped with two (2) multi-well production headers, two (2) test separators with oil/gas/water measurement devices, two (2) two-phase production separators, a horizontal heater-treater, oil & water storage tanks, and a gas sales meter (see Exhibits 2 and 3).

One test separator is located at the battery site (L, 11, 24S, 29E) while the satellite test separator will be located at the H. B. "11" Federal No. 1 well location (E, 11, 24S, 29E). This configuration is necessary due to a topographical obstruction on the leases.

In order to allocate total battery production back to each well, the individual wells will be tested at least once monthly. The oil, water, and gas rates from the well tests will be used to determine each well's proportionate share of the total battery production for the month.

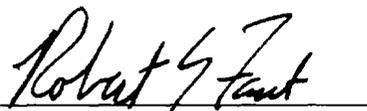
All interest owners in the affected leases have been notified of the commingling and off-lease storage proposal (**Exhibit 3**).

The proposed commingling of production is in the interest of conservation and will not result in reduced royalty or improper measurement of production.

The proposed commingling is necessary for continued operation of the above-referenced Federal Leases.

We understand the requested approval will not constitute the granting of any right-of-way or construction rights not granted by the lease instruments. We agree to submit applications for right-of-way approval to the BLM's Realty Section in your office, if not previously submitted. We also understand that additional wells added, which are not specified in this application, will require separate commingling approvals.

Signature:

A handwritten signature in black ink, appearing to read "Robert S. Fant", written over a horizontal line.

Name:

Robert S. Fant

Title:

Senior Engineer

Date:

January 20, 1998

# HIB II FED 2

Sec 11, T 24S, R 29E

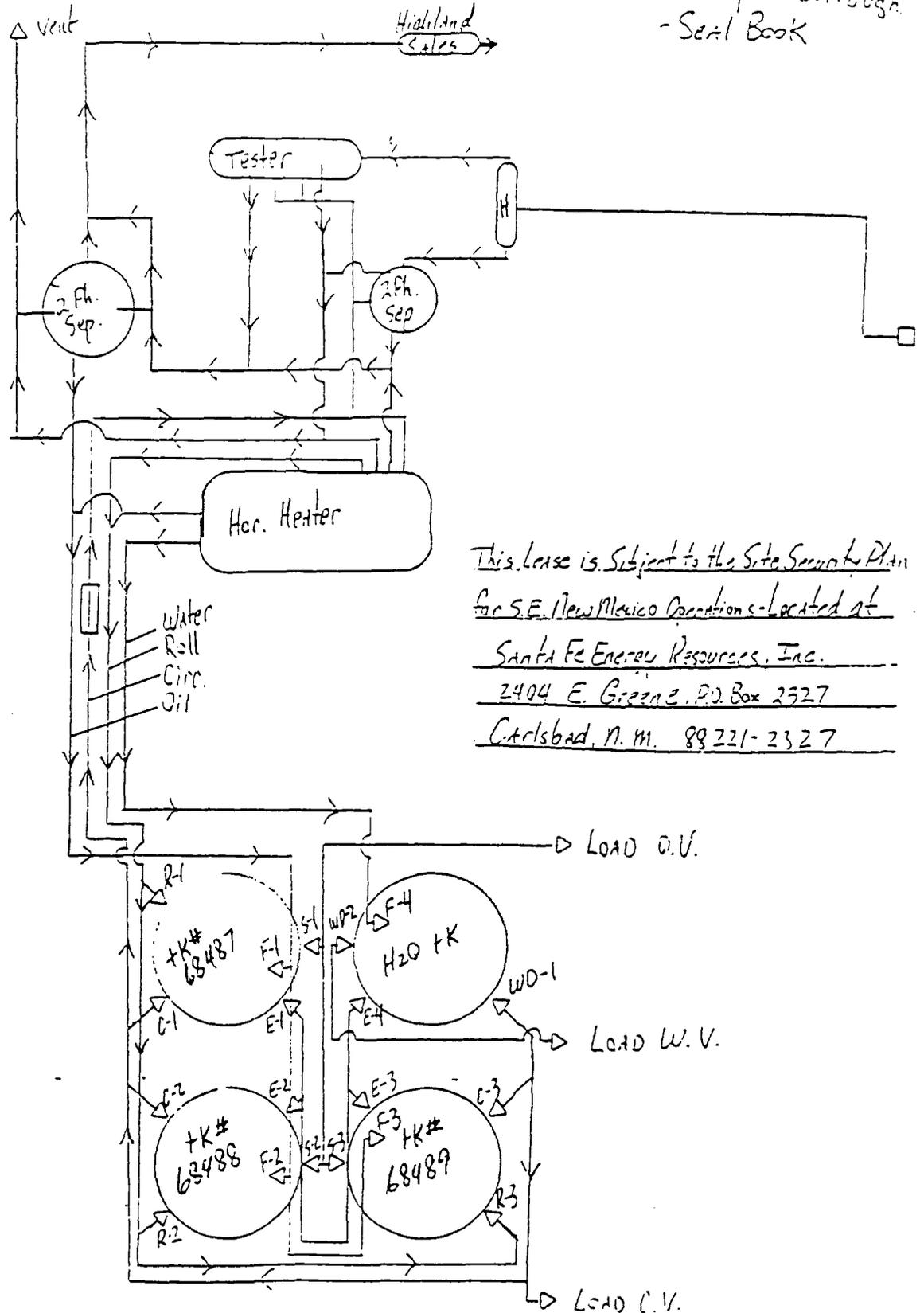
1650' FSL + 400' FVUL

Eddy County, New Mexico

7.M 88134

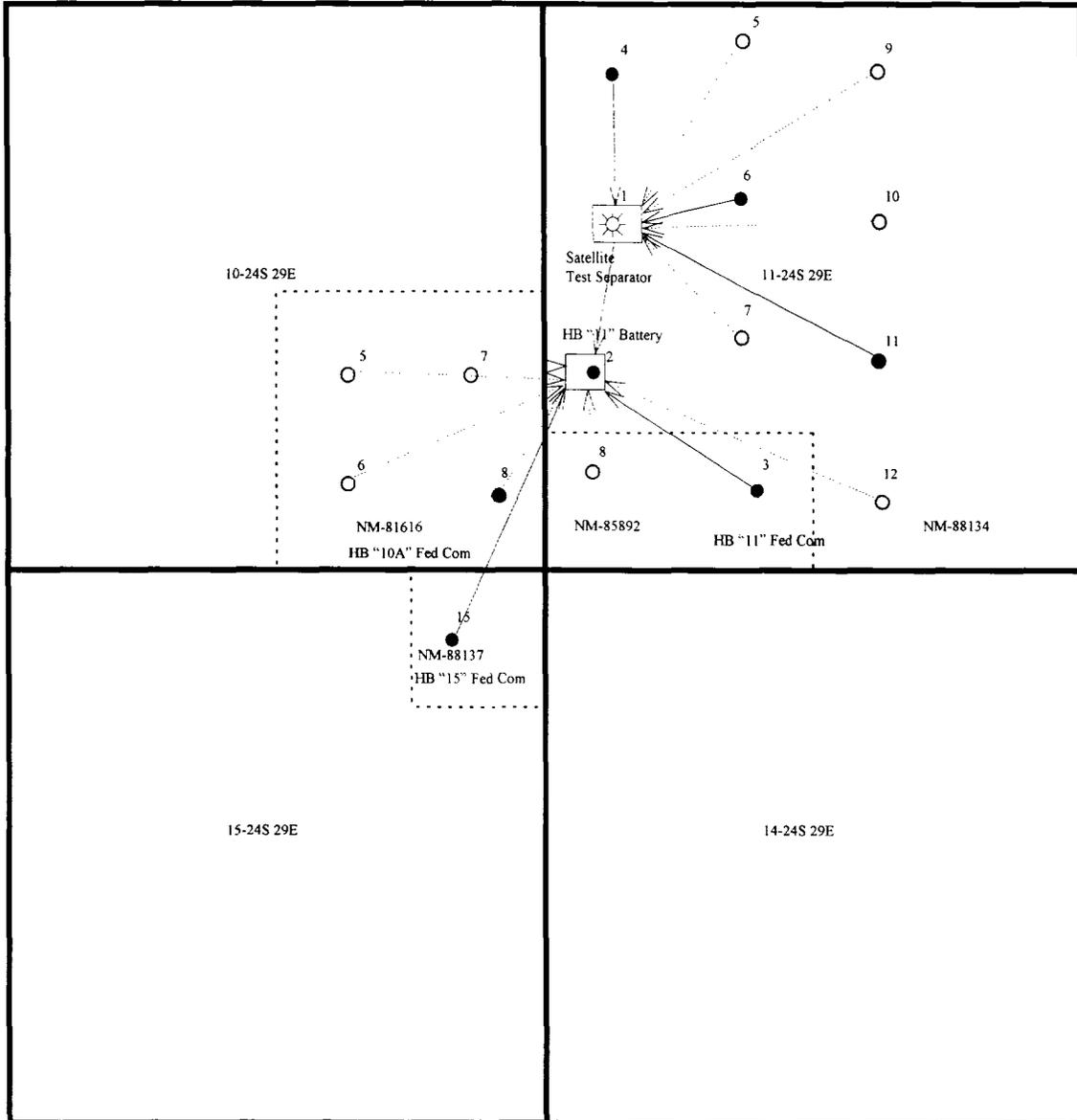
EXHIBIT 2

- CC. 1-31-97
- Site Security Book
  - B.L.M.
  - Bryan Hubbard
  - Jim Kruger
  - James Moore
  - Mike Ables
  - Terry McCullough
  - Seal Book



This lease is Subject to the Site Security Plan  
for S.E. New Mexico Operations - Located at  
Santa Fe Energy Resources, Inc.  
2404 E. Greene, P.O. Box 2327  
Carlsbad, N.M. 88221-2327

Exhibit 1



**NOTE:** Lines from wells to batteries denote only where wells are connected and the direction of flow, and do not indicate actual flowline routes.

Hash Brown Area  
 HB "11" Battery Commingle Application  
 Section 10,11 and 15, T24S, R29E  
 Eddy County, New Mexico  
 Scale: 3" = 1 Mile  
 SANTA FE ENERGY RESOURCES, INC

- Oil Well
- ☼ Gas Well
- Future Location
- Battery or Test Site
- > Well Connection
- - -> Proposed Well Connection

Exhibit 2a

**Satellite Test Layout**  
Located at H. B. "11" Federal #1  
Unit E, Sec. 11, T24S, R29E

