

By JPP



## Santa Fe Energy Company

Central Division-Permian Basin District  
7200 I-40 West  
Amarillo, Texas 79106  
806/359-2000  
TWX 910-898-4111

April 30, 1984

Mr. Joe E. Ramey, Director  
Oil Conservation Division  
Energy and Minerals Department  
State of New Mexico  
P.O. Box 2088  
Santa Fe, New Mexico 87501

NSL- 1822  
RULE 104 F II  
RELEASE IMMEDIATELY

Dear Sir:

BURKAM FED. COM. #1  
MALAGA MORROW POOL

Santa Fe Energy Company requests administrative approval of an unorthodox location 660' FSL and 990' FWL, <sup>5/2</sup>Section 12, T24S, R28E, Eddy County, New Mexico.

The reasons for this request are geologic. The relevant geologic exhibits are enclosed.

A list of offset operators of proration or spacing units is enclosed. Each has been notified by certified or registered mail of this request for administrative approval of an unorthodox location.

Sincerely,

*Michael R. Burton*

Michael R. Burton  
Senior Drilling Engineer

MRB:cc

enclosure

SET FOR HEARING BECAUSE OF  
COMPULSORY POOLING but ~~may~~ may be  
dismissed! 5/23/84

5/23/84

DISMISSED!

JPP

JPP



A Santa Fe Industries Company

**NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-102  
Supersedes C-128  
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

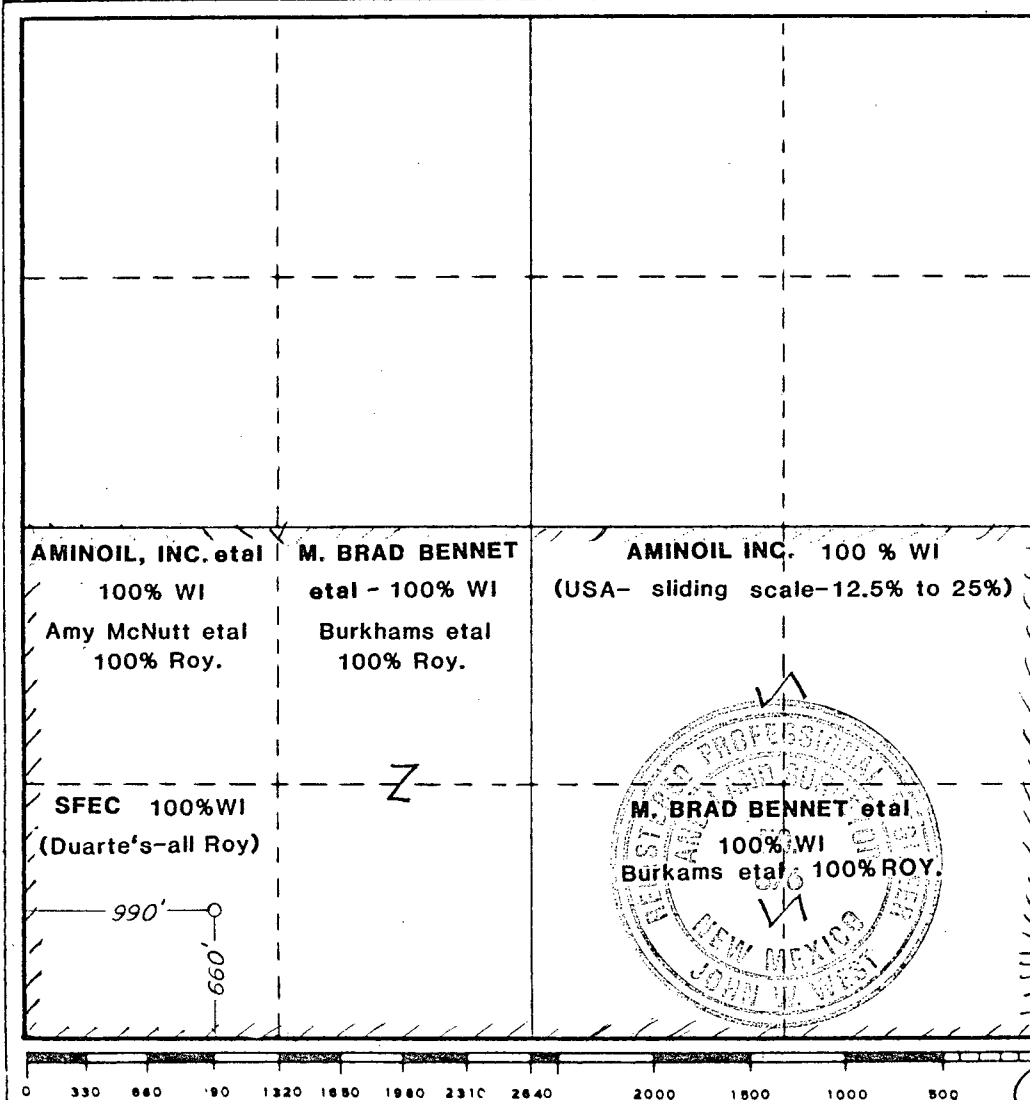
Operator <b>SANTA FE ENERGY COMPANY</b>			Lease <b>BURKHAM FEDERAL COM.</b>		Well No. <b>1</b>
Unit Letter <b>N</b>	Section <b>12</b>	Township <b>24 SOUTH</b>	Range <b>28 EAST</b>	County <b>EDDY</b>	
Actual Footage Location of Well: <b>660</b> feet from the <b>SOUTH</b> line and <b>990</b> feet from the <b>WEST</b> line					
Ground Level Elev. <b>2971.7</b>	Producing Formation <b>MORROW</b>		Pool <b>MALAGA</b>		Dedicated Acreage:  Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☒ Yes    ☐ No    If answer is "yes," type of consolidation Communitization Agreement

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) \_\_\_\_\_

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



**CERTIFICATION**

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name Michael R. Burton  
 Position Sr. Drilling Engineer  
 Company SANTA FE Energy Co.  
 Date 4-30-84

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed APRIL 25, 1984  
 Registered Professional Engineer and/or Land Surveyor John W. West  
 Certificate No. JOHN W. WEST, 676  
RONALD J. EIDSON, 3239

Santa Fe Energy Company

500 West Ohio  
Midland, Texas 79701  
915/687-3551

Recd 5-1-84  
BLL



April 30, 1984

Mr. Richard L. Stamets  
Technical Support Chief  
Oil Conservation Division  
Energy and Minerals Department  
State of New Mexico  
P.O. Box 2088  
Santa Fe, New Mexico 87501

RE: Burkham Fed. Com. #1  
Section 12-24S-28E  
Eddy County, New Mexico

Dear Sir:

Please find enclosed seven (7) copies of the following:

1. Letter requesting administrative approval of unorthodox location.
2. Plat showing acreage dedicated
3. Geologic exhibits
4. Form C-101
5. Form C-102

Six (6) copies of all of this information has been sent to the District Office in Artesia.

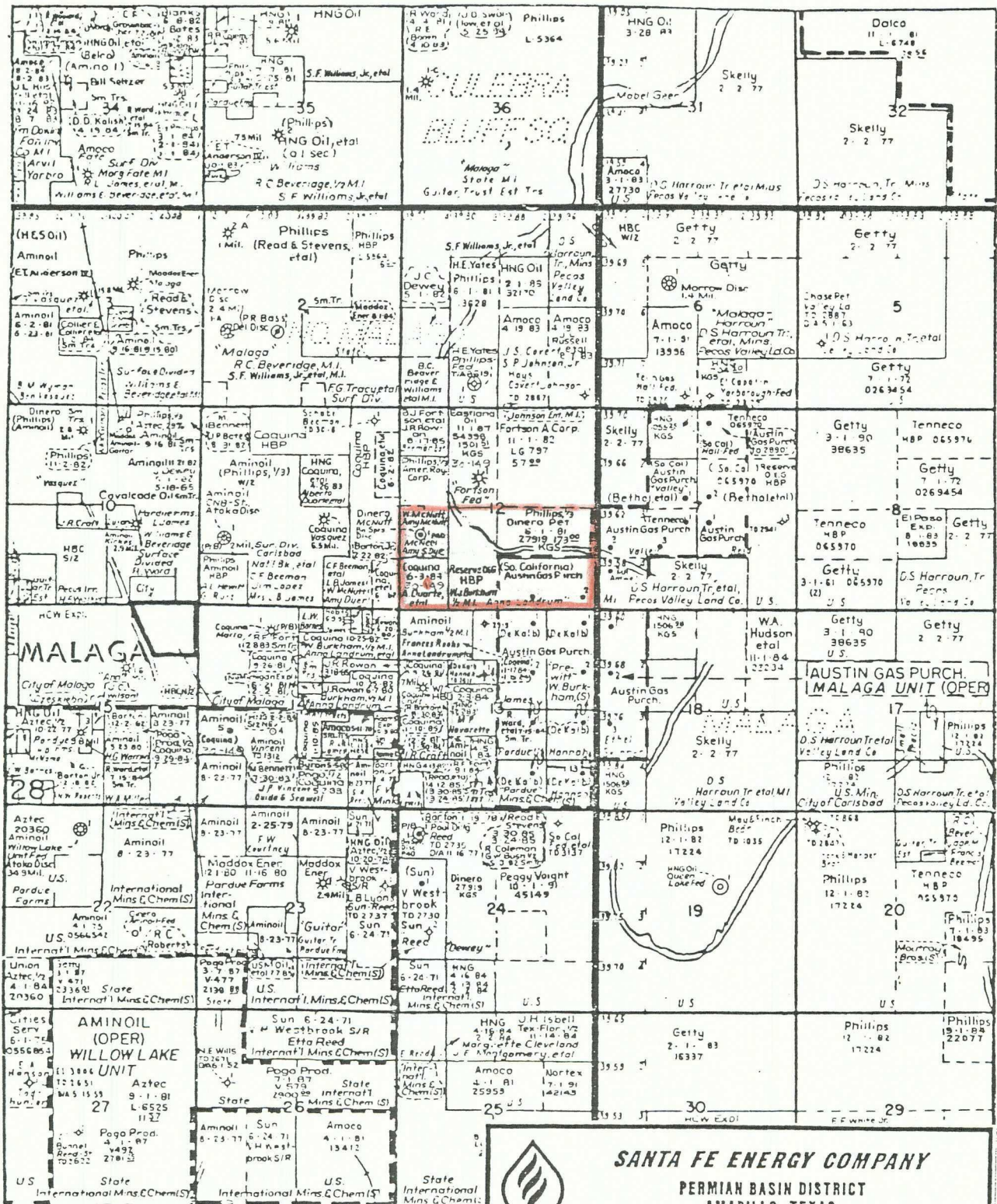
Sincerely,

Michael R. Burton  
Senior Drilling Engineer

MRB:cc

enclosures





**SANTA FE ENERGY COMPANY**

PERMIAN BASIN DISTRICT  
AMARILLO, TEXAS

CARLSBAD AREA  
Eddy Co., New Mexico

MALAGA PROSPECT  
(SFEC-Coquina)

Scale: 1"=4000'

Date: 2-83

OFFSET OPERATORS TO BURKHAM FED. COM. #1

Partnership Properties Co.

Section 11 (E/2)-24S-28E

Section 14 (N/2)-24S-28E

The Eastland Oil Company

N/2 Section 12-24S-28E

Austin Gas Purchasing, Inc.

E/2 Section 13-24S-28E

w/2 Section 7-24S-29E

Santa Fe Energy Company

W/2 Section 13-24S-28E

# Santa Fe Energy Company



500 West Ohio  
Midland, Texas 79701  
915/687-3551

April 26, 1984

Re: OD-NM-601,260  
Burkham Fed. Com. #1  
S/2 Sec. 12, T-24-S,  
R-28-E, Eddy County,  
New Mexico  
Malaga Prospect  
Carlsbad Area

The Eastland Oil Company  
P. O. Drawer 3488  
560 One Marienfeld Place  
Midland, Texas 79702

Attention: George D. Neal

Gentlemen:

As a follow-up to Santa Fe Energy Company's letter of April 9, 1984, this is to inform you of the Request for Administrative Approval of Santa Fe's unorthodox location for a Morrow well to be drilled 660' FSL and 990' FWL in Section 12, T-24-S, R-28-E, Eddy County, New Mexico, with the South half (S/2) of said section to be the proration unit. (Plat attached for your convenience). Originally we planned to drill at 660' FSL and 660' FWL, however, a survey has revealed the presence of an irrigation ditch prohibiting same.

Santa Fe Energy Company would appreciate your responding to this waiver as quickly as possible as we plan to spud this well on or before June 1, 1984. Please send one executed copy to:

Division, Energy and Minerals Department  
State of New Mexico  
P. O. Box 2088  
Santa Fe, New Mexico 87501

and return the copy so marked to us.

Yours truly,

  
Patrick J. Tower  
Landman

BY SIGNATURE HERETO, WE DO APPROVE THIS WAIVER REQUEST:

BY: 

DATE: 4/29/84

COMPANY: The Eastland Oil Co.

cc: Bill Schaefer - Exploration Mgr.  
- Hugh Boyt - Production Mgr.

RETURN THIS COPY  
TO: SANTA FE ENERGY  
COMPANY

# Santa Fe Energy Company



500 West Ohio  
Midland, Texas 79701  
915/687-3551

April 26, 1984

Re: OD-NM-601,260  
Burkham Fed. Com. #1  
S/2 Sec. 12, T-24-S,  
R-28-E, Eddy County,  
New Mexico  
Malaga Prospect  
Carlsbad Area

Partnership Properties Company  
c/o Petro-Lewis Corporation  
1111 West Loop 289  
P. O. Box 16,200  
Lubbock, Texas 79490

Gentlemen:

As a follow-up to Santa Fe Energy Company's letter of April 9, 1984, this is to inform you of the Request for Administrative Approval of Santa Fe's unorthodox location for a Morrow well to be drilled 660' FSL and 990' FWL in Section 12, T-24-S, R-28-E, Eddy County, New Mexico, with the South half (S/2) of said section to be the proration unit. (Plat attached for your convenience). Originally we planned to drill at 660' FSL and 660' FWL, however, a survey has revealed the presence of an irrigation ditch prohibiting same.

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Division, Energy and Minerals Department  
State of New Mexico  
P. O. Box 2088  
Santa Fe, New Mexico 87501

and return the copy so marked to us.

Yours truly,

Patrick J. Tower  
Landman

BY SIGNATURE HERETO, WE DO APPROVE THIS WAIVER REQUEST:

BY: \_\_\_\_\_

DATE: \_\_\_\_\_

COMPANY: \_\_\_\_\_

cc: Bill Schaefer - Exploration Mgr.  
Hugh Boyt - Production Mgr.



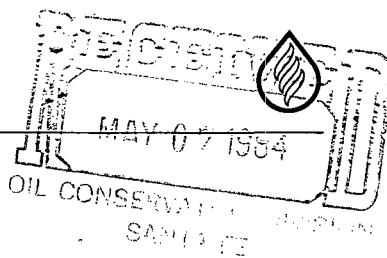
A Santa Fe Industries Company



# Santa Fe Energy Company

500 West Ohio  
Midland, Texas 79701  
915/687-3551

April 26, 1984



Re: OD-NM-601,260  
Burkham Fed. Com. #1  
S/2 Sec. 12, T-24-S,  
R-28-E, Eddy County,  
New Mexico  
Malaga Prospect  
Carlsbad Area

Austin Gas Purchasing, Inc.  
P. O. Box 748  
Salina, Kansas 67401

Gentlemen:

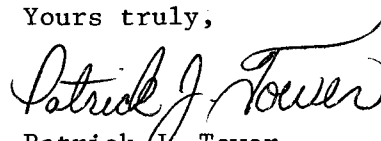
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Division, Energy and Minerals Department  
State of New Mexico  
P. O. Box 2088  
Santa Fe, New Mexico 87501

and return the copy so marked to us.

Yours truly,

  
Patrick J. Tower  
Landman

BY SIGNATURE HERETO, WE DO APPROVE THIS WAIVER REQUEST:

BY: 

DATE: 5/1-84

COMPANY: Austin Gas Purchasing

cc: Bill Schaefer - Exploration Mgr.  
Hugh Boyt - Production Mgr.



A Santa Fe Industries Company



# Santa Fe Energy Company



500 West Ohio  
Midland, Texas 79701  
915/687-3551

April 30, 1984

Mr. Richard L. Stamets  
Technical Support Chief  
Oil Conservation Division  
State of New Mexico  
P. O. Box 2088  
Santa Fe, NM 87501

RE: NM 106-22-5  
Burkham Fed Com #1  
Geologic Exhibits

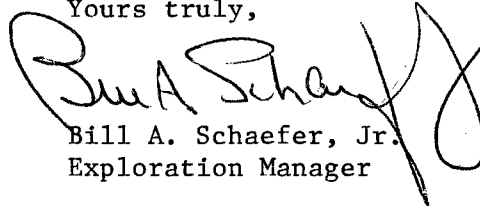
Dear Mr. Stamets:

Santa Fe Energy, Exploration Department, is proposing an unorthodox location (990' FWL, 660' FSL) in Section 12-24S-28E, Eddy County, NM. Reasons for this location are as follows:

1. Isopaching of clean Atoka Sands indicates the trend of sand reservoirs trends in a north-south direction. (Map 1)
2. A cumulative gas production map of the Atoka sands indicates best production is oriented in a north-south direction. This information supports the Atoka sand isopach.
3. The Eastland #1 Fortson (1830' FNL, 2140' FWL) Section 12-24S-28E is in an area of poor sand development. Santa Fe Energy's proposed location would be 2700' north of the Coquina #1 Craft and 3100' southeast of the Coquina #1 Vasquez (Map 2).

The location Santa Fe Energy Company has proposed is the most logical one based upon knowledge of sand trends, good reservoir conditions, and production data in extending gas production to the east of Malaga Field.

Yours truly,

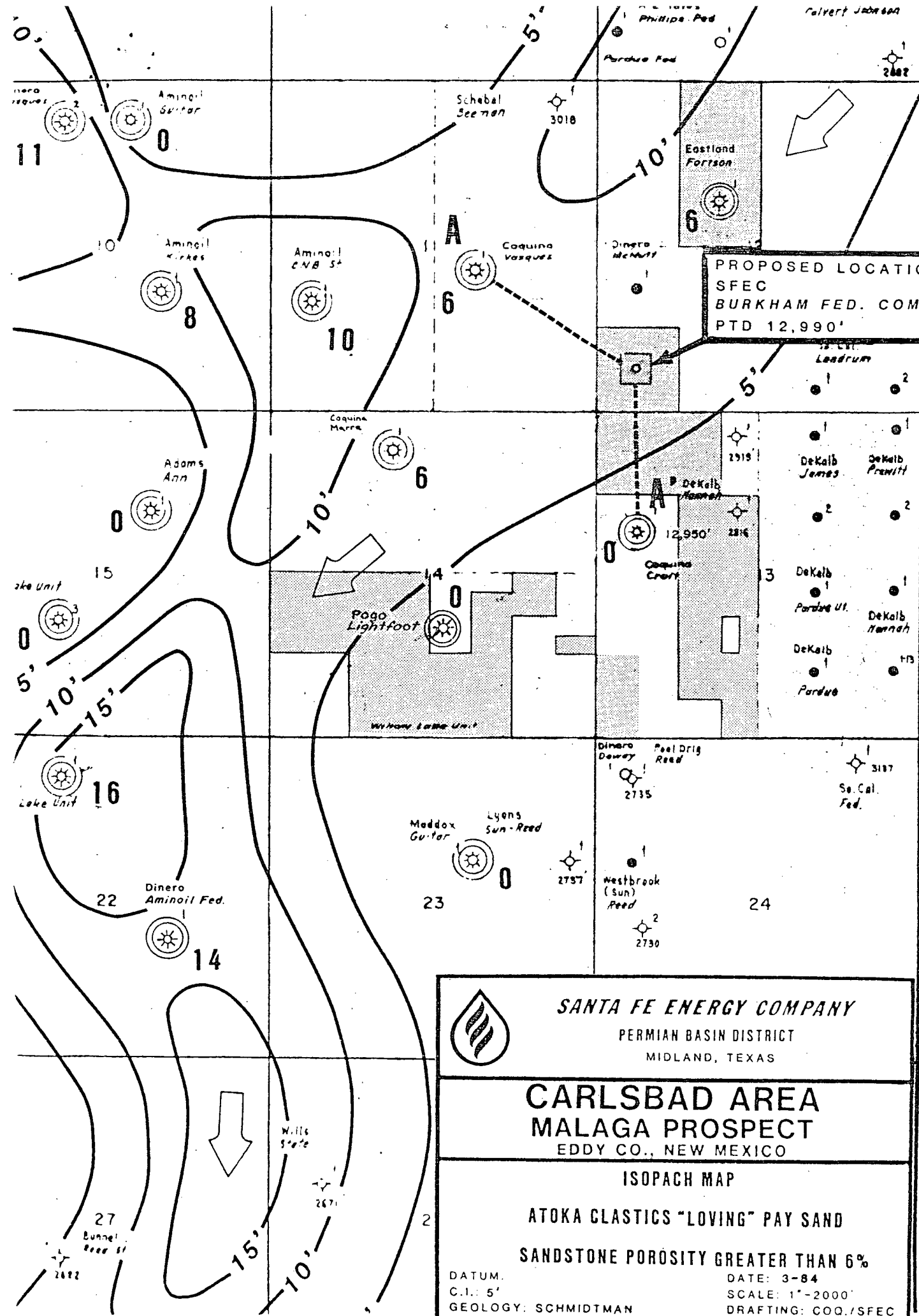
  
Bill A. Schaefer, Jr.  
Exploration Manager

ccs

attachment








PROPOSED LOCATION  
SFEC  
BURKHAM FED. COM. #1  
PTD 12,990'

T  
24  
S



**SANTA FE ENERGY COMPANY**  
PERMIAN BASIN DISTRICT  
MIDLAND, TEXAS

---

**CARLSBAD AREA  
MALAGA PROSPECT**  
EDDY CO., NEW MEXICO

---

ISOPACH MAP

ATOKA CLASTICS "LOVING" PAY SAND

SANDSTONE POROSITY GREATER THAN 6%

DATUM:  
C.I.: 5'

DATE: 3-84  
SCALE: 1"=2000'

GEOLOGY: SCHMIDTMAN      DRAFTING: COQ./SFEC



STATE OF NEW MEXICO  
**ENERGY AND MINERALS DEPARTMENT**  
OIL CONSERVATION DIVISION

TONY ANAYA  
GOVERNOR

POST OFFICE BOX 2088  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87501  
(505) 827-5800

May 23, 1984

Santa Fe Energy Company  
7200 I-40 West  
Amarillo, Texas 79106

Attention: Michael R. Burton

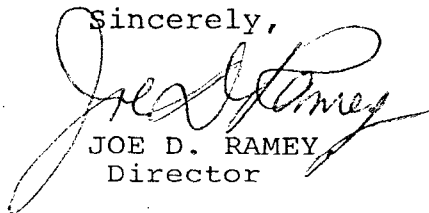
Administrative Order NSL-1822

Gentlemen:

Reference is made to your application for a non-standard location for your Burkam Fed. Com Well No. 1 located 660 feet from the South line and 990 feet from the West line the S/2 of Section 12, Township 24 South, Range 28 East, Malaga Morrow Pool, Eddy County, New Mexico.

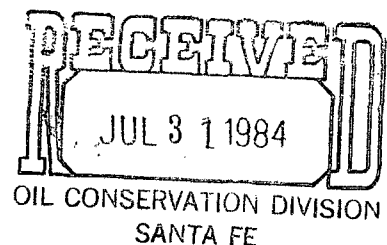
By authority granted me under the provisions of Rule 104 F II of the Division Rules and Regulations, the above-described unorthodox location is hereby approved.

Sincerely,

  
JOE D. RAMEY  
Director

JDR/RLS/dp

cc: Oil Conservation Division - Artesia  
Oil & Gas Engineering Committee - Hobbs  
Bureau of Land Management - Albuquerque



P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

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LAND OFFICE	
OPERATOR	

5A. Indicate Type of Lease

STATE ☐

FEE ☒

5. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

b. Type of Well

OIL WELL ☐

GAS WELL ☒

OTHER ☐

SINGLE ZONE ☐

MULTIPLE ZONE ☐

2. Name of Operator

Santa Fe Energy Company

3. Address of Operator

500 W. Ohio, Midland, Texas 79701

4. Location of Well

UNIT LETTER M

LOCATED 660

FEET FROM THE

South

LINE

AND 990

FEET FROM THE West

LINE OF SEC. 12

TWP. 24S

RGE. 28E

NADP

7. Unit Agreement Name

8. Farm or Lease Name

Burkham Fed. Com.

9. Well No.

1

10. Field and Pool, or Wildcat

Malaga Morrow

12. County

Eddy

19. Proposed Depth

13,500

19A. Formation

Morrow

20. Rotary or C.T.

Rotary

11. Elevations (Show whether DT, RT, etc.)

2971.7 GL

21A. Kind & Status Plug. Bond

Blanket

21B. Drilling Contractor

To be determined

22. Approx. Date Work will start

6/1/84

23.

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
24"	20"	94.0	400'±	900	Surface
17½"	13-3/8"	61.0	2,700'±	2300	Surface
12¼"	9-5/8"	40.0	9,950'±	1700	5000'
8½" & 7-7/8"	5-1/2"	20.0	13,500'±	1000	9500'

20" casing will be cemented with sufficient Class "C" containing 2% CaCl<sub>2</sub> to circulate to surface. 13-3/8" casing will be cemented with sufficient "lite" cement and Class "C" containing 2% CaCl<sub>2</sub> to circulate to surface. 9-5/8" casing will be cemented with sufficient "lite" cement and Class "C" neat for 5000' of fill. 5½" casing will be cemented with sufficient Class "H" cement to fill to 500' inside 9-5/8" casing. All cement to weigh 1.0 ppg or more greater than mud weight used to drill specific interval. BOP equipment will consist of a 20" annular preventor from 400' to 2700', a 13-3/8" 5000 psi double ram with bag type annular preventor from 2700' to 9950'; and 11" 5000 psi triple ram preventor with bag type annular preventor and rotating head from 9950' to 13,500'. Zones of interest will be evaluated with the use of electric logs, drill stem tests, and/or cores.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM; IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Signed Michael R. Banton Title Sr. Drilling Engineer

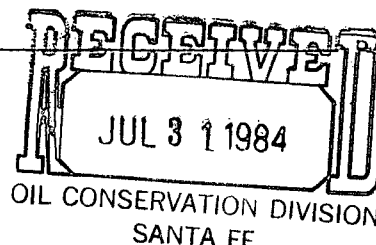
Date 4/30/84

(This space for State Use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

Don W CB 7-26-84



NO. OF COPIES RECEIVED	
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FILE	
U.S.G.S.	
LAND OFFICE	
OPERATOR	

5A. Indicate Type of Lease  
STATE ☐ FEE ☒

5. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		7. Unit Agreement Name
b. Type of Well OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>		8. Farm or Lease Name Burkham Fed. Com.
2. Name of Operator Santa Fe Energy Company		9. Well No. 1
3. Address of Operator 500 W. Ohio, Midland, Texas 79701		10. Field and Pool, or Wildcat MADAGA MORROW
4. Location of Well UNIT LETTER M LOCATED 660 FEET FROM THE South LINE AND 990 FEET FROM THE West LINE OF SEC. 12 TWP. 24S RGE. 28E NADPM		12. County Eddy
19. Proposed Depth 13,500		19A. Formation Morrow
20. Rotary or C.T. Rotary		
21. Elevations (Show whether DT, KT, etc.) 2971.7 GL	21A. Kind & Status Plug. Bond Blanket	21B. Drilling Contractor To be determined
22. Approx. Date Work will start 6/1/84		

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SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
24"	20"	94.0	400'±	900	Surface
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I hereby certify that the information above is true and complete to the best of my knowledge and belief.

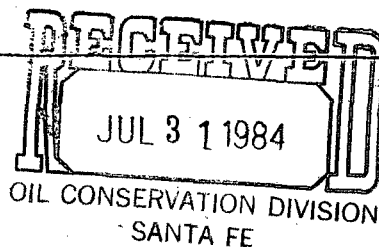
Signed Michael C. Rauten Title Sr. Drilling Engineer Date 4/30/84

(This space for State Use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

Larry W CB 7-26-84



**NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-102  
Supersedes C-128  
Effective 1-1-85

All distances must be from the outer boundaries of the Section.

Operator <b>SANTA FE ENERGY COMPANY</b>			Lease <b>BURKHAM FEDERAL COM.</b>		Well No. <b>1</b>
Unit Letter <b>M</b>	Section <b>12</b>	Township <b>24 SOUTH</b>	Range <b>28 EAST</b>	County <b>EDDY</b>	
Actual Footage Location of Well: <div style="display: flex; justify-content: space-between;"> <span>660 feet from the <b>SOUTH</b> line and</span> <span>990 feet from the <b>WEST</b> line</span> </div>					
Ground Level Elev. <b>2971.7</b>	Producing Formation <b>MORROW</b>		Pool <b>MALAGA</b>	Dedicated Acreage: <b>320</b> Acres	

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☒ Yes    ☐ No    If answer is "yes," type of consolidation Communitization Agreement

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) \_\_\_\_\_

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.

**CERTIFICATION**

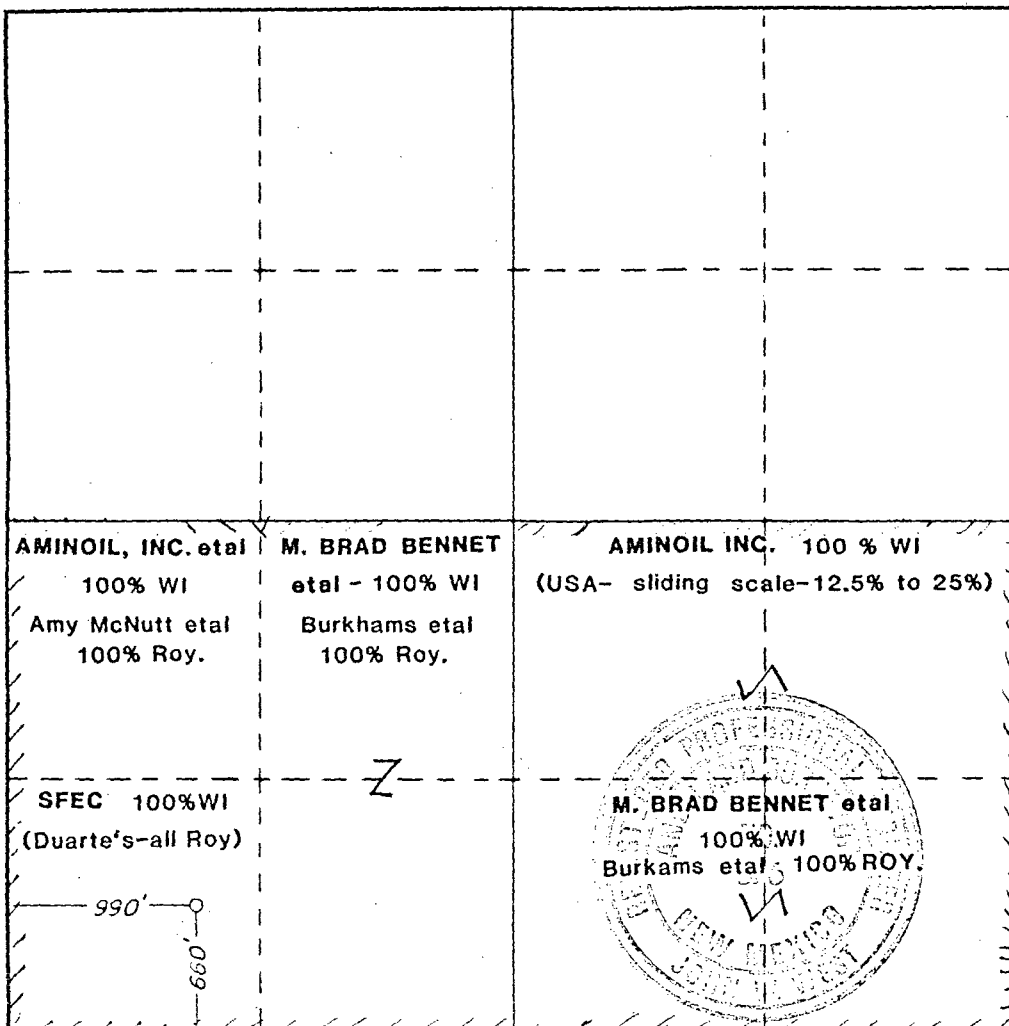
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name Michael R. Banton  
 Position Sr. Drilling Engineer  
 Company SANTA Fe Energy Co  
 Date 4-30-84

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed APRIL 25, 1984  
 Registered Professional Engineer and/or Land Surveyor

John W. West  
 Certificate No. JOHN W. WEST,  
RONALD J. EIDSON,



0 120 160 200 240 280 320 360 400 440 480 520 560 600 640 680 720 760 800 840 880 920 960 1000 1040 1080 1120 1160 1200 1240 1280 1320 1360 1400 1440 1480 1520 1560 1600 1640 1680 1720 1760 1800 1840 1880 1920 1960 2000 2040 2080 2120 2160 2200 2240 2280 2320 2360 2400 2440 2480 2520 2560 2600 2640