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218 MONTEZUMA POST OFFICE BOX 2068

### SANTA FE, NEW MEXICO 87504-2068

(505) 982-4554 FAX (505) 982-8623

LEWIS C. COX, JR. (1924-1993) CLARENCE E. HINKLE (1901-1985)

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TIMOTHY R. BROWN
JAMES C. MARTIN
JAMES C. MARTIN

\*NOT LICENSED IN NEW MEXICO

June 4, 1996



### VIA HAND DELIVERY

Michael E. Stogner Oil Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 87505 Oil Conservation Division

Dear Mr. Stogner:

Santa Fe Energy Resources, Inc. hereby requests administrative approval of an unorthodox gas well location for the following well:

Indian Basin "F" Well No. 2 1115 feet FSL and 2055 feet FEL Section 25, Township 21 South, Range 23 East Eddy County, New Mexico

The well will be drilled to a depth sufficient to test the Morrow formation (Indian Basin - Morrow Gas Pool). The special pool rules for said pool require 640 acre spacing, with a well to be located no closer than 1650 feet to the exterior of the well unit and no closer than 330 feet to a quarter-quarter section line. All of Section 25 will be dedicated to the well.

The well location is based upon topographic and geologic factors. The following information is submitted in support of the application.

1. APD: The Application for Permit to Drill, approved by the Bureau of Land Management, is marked Exhibit A. The well location was moved after the APD was submitted, and an approved Sundry Notice regarding the location change is submitted as Exhibit B. Page 2 of Exhibit B is the Form C-102 with the surveyed well location. The location is unorthodox because it is: (a) too close to the well unit's exterior boundary; and (b) only 205 feet from a quarter-quarter section line.

Mr. Michael E. Stogner June 4, 1996 Page 2

2. <u>Land Information</u>: A land plat is submitted as Exhibit C. The affected offset acreage is Section 36-21S-23E (to the South). The names and addresses of the lessees of that Section are:

Oryx Energy Company (lessee and operator)
Post Office Box 2880
Dallas, Texas 75221-2880

Marathon Oil Company (lessee) Post Office Box 552 Midland, Texas 79702

Section 31-21S-24E could possibly be considered affected by the application. The operator of that section is:

Kerr-McGee Corporation Post Office Box 25861 Oklahoma City, Oklahoma 73125

Information on offsets is from Division well files and the records of the Clerk of Eddy County, and is current and correct.

- 3. <u>Topographic Information</u>: There are draws and arroyos running through Section 25 which limit well locations in the section. To place the well on level ground outside of the arroyos, it was moved to the south of a standard location. The draws and arroyos are highlighted in yellow on page 4 of Exhibit B. The proposed location will also minimize road construction, due to the location of roads to existing wells.
- 4. <u>Geology</u>: Attached as Exhibit D is a net sand isopach of the Lower Morrow. In order to maximize net sand thickness, the well needs to be located in the NW¼ or SE¼ of Section 25. However, based on topographical factors, it is better to place the well in the SE¼ of Section 25.
- 5. <u>Notice</u>: Notice to the offsets was provided on the date of this letter. Submitted as Exhibit E is an affidavit of notice with the notice letter attached thereto.

Mr. Michael E. Stogner June 4, 1996 Page 3

For the foregoing reasons, Santa Fe Energy Resources, Inc. requests that the above unorthodox gas well location be approved. This application is submitted in triplicate.

Very truly yours,

HINKLE, COX, EATON, COFFIELD

A HENSLEY, L.L.P.

James Bruce

Attorneys for Santa Fe Energy

Resources, Inc.

JB/bc

Enclosures

cc: D. C. Bianchi

Form 316G-3 (July 1992)

FORM APPROVED
OMB NO. 1004-0136

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\*See Instructions On Reverse Side

Area Manager

DISTRICT I P. 0: Box 1980 Hobbs, NM 88241-1980

Ener

State of New Mexico Minerals, and Natural Resources De ment

Form C-102 Revised 02-10-94

Instructions on back

Submit to the Appropriate District Office State Lease — 4 copies Fee Lease — 3 copies

DISTRICT II P. O. Drawer DD Artesia, NM 88211-0719

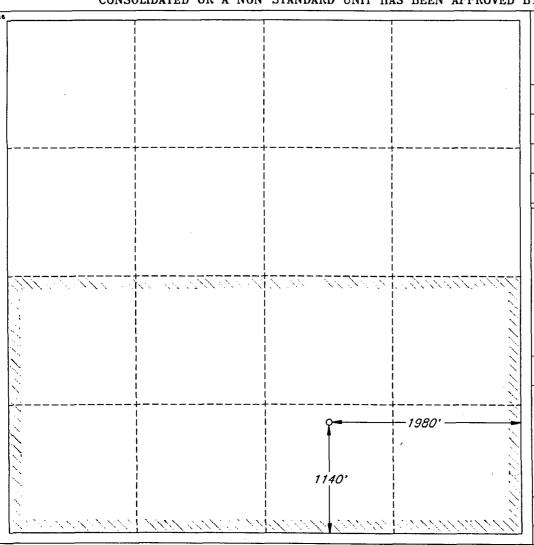
DISTRICT III 1000 Rio Brazos Rd. Aztec, NM 87410

### OIL CONSERVATION DIVISION P. O. Box 2088 Santa Fe. New Mexico 87504-2088

AMENDED REPORT

DIS	<u>STR</u>	ICT_	IV_	
$\overline{P}$ .	0.	Box	208	38
Sai	nta	Fe,	NM	87507-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT <sup>2</sup> Pool Code <sup>3</sup> Pool Name API Number Indian Basin Morrow <sup>5</sup> Property Name <sup>6</sup> Well Number 4 Property Code INDIAN BASIN "F" OGRID No. <sup>8</sup> Operator Name <sup>9</sup> Elevation SANTA FE ENERGY RESOURCES, INC. 3796' " SURFACE LOCATION Township Lot Ida Feet from the North/South line Feet from the East/West line UL or lot no. Section Range County 21 SOUTH 23 EAST, N.M.P.M. SOUTH 1980' **EAST EDDY** 0 25 1140' "BOTTOM HOLE LOCATION IF DIFFERENT FROM SURFACE Lot Ida Feet from the North/South line Feet from the East/West line UL or lot no. Section Township Range County 13 Joint or Infill 14 Consolidation Code 15 Order No. 12 Dedicated Acres 320 NO ALLOWABLE WELL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



### OPERATOR CERTIFICATION

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

Signature emes 3. Orinted Name James P. "Phil" Stinson

Agent, Santa Fe Energy Date

3-28-96

### SURVEYOR CERTIFICATION

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 belief.

Date of Survey MARCH 1998 LYNN BÉZNER #7920 #44374551 NE

JSJ

### DRILLING PROGRAM

### SANTA FE ENERGY RESOURCES, INC.

Indian Basin "F" #2

In conjunction with Form 3160-3, Application to Drill the subject well, Santa Fe Energy Operating Partners, L.P. submits the following ten items of pertinent information in accordance with Onshore Oil & Gas Order No. 1.

- 1. Geologic Name of Surface Formation: Alluvium
- 2. Estimated Tops of Significant Geologic Markers:

San Andres	980′
Glorieta	2520′
Bone Spring	4550′
Wolfcamp	6460′
Cisco	7450′
Strawn	8460′
Atoka	8720′
Morrow	9120′
Morrow Clastics	9260′
Mississippian	9600′
Total Depth	9650′

3. The estimated depths at which water, oil or gas formations are expected:

Water	None expected in	area
Oil/Gas	Cisco	7450′-7600′
•	Morrow Clastics	9250'-9400'

- 4. Proposed Casing Program: See Form 3160-3 and Exhibit A
- 5. Pressure Control Equipment: See Exhibit B
- Drilling Fluid Program: See Exhibit C 6.
- 7. Auxiliary Equipment: A mud logging unit will be utilized to monitor penetration rate and hydrocarbon shows while drilling below 2580'.
- 8. Testing, Logging and Coring Program:

Drill Stem Tests: (all DST's to be justified on the basis of valid show of oil or gas):

Surface-1200'

One Drill Stem Test is Planned.

Compensated Neutron/Gamma Ray (thru csg)

Morrow	9260′-9400′
Logging:	
Dual Laterolog W/MSFL and Gamma Ray Compensated Neutron/Litho-Density/Gamma Ray	1200'-9650' 1200'-9650'
Compensated Neutron/Gamma Ray (thru csg)	Surface-1200

Coring: None Planned

### 9. Abnormal Conditions, Pressures, Temperatures & Potential Hazards:

No abnormal pressures or temperatures are anticipated. The estimated bottom hole temperature is 130 degrees Fahrenheit and the estimated bottom hole pressure is 4450 psi. A Blow Out Preventer System as outlined in Exhibit B will be utilized should the need arise to shut the well in prior to running and cementing production casing. The Morrow zone is our primary objective. The Cisco/Canyon zones are hydrogen sulfide productive in the area. Our plan is to have everyone on location trained in H2S safety procedures and install monitors and Scott Air Packs at strategic locations around the rig by 7000', prior to encountering the Cisco/Canyon. It is our understanding that  $H_2S$  is only detected in the area whenever the reservoir fluids are produced up the wellbore. Our drilling fluid hydrostatic head will prevent fluid entry due to the reservoir being overbalanced. We will have monitors operational during the drilling of the Cisco/Canyon zone. Due to the remote location of this drillsite,  ${\rm H}_2{\rm S}$  warning signs will be placed prior to entry of the drillsite, a public protection plan is not required for this location.

### 10. Anticipated Starting Date and Duration of Operations:

Road and location work will not begin until approval has been received from the B.L.M. The anticipated spud date is May 1, 1996. Once spudded, the drilling operation should be completed in approximately 30 days. If the well is productive, an additional 30 days will be required for completion and testing before permanent facilities are installed.

### OPERATIONS PLAN

### SANTA FE ENERGY RESOURCES, INC.

### Indian Basin "F" #2

- 1. Drill a 12-1/4" hole to approximately 1200'.
- Run 9-5/8' 36.0 ppf K-55 ST&C casing. Cement with 575 sx Class "C" with 2% CaCl<sub>2</sub>. Run guide shoe on bottom and float collar two joints of bottom. Centralize every other joint above the shoe. Thread lock bottom 2 joints.
- 3. Wait on cement for six hours prior to cutting off.
- 4. Nipple up and install a 3000 psi. Double Ram and Annular BOP system with choke manifold. WOC 18 hours prior to drilling out.
- 5. Test BOP system to 1500 psi with the rig pump. Test casing to 1500 psi.
- 6. Drill 8-3/4" hole to 9650'. Run logs.
- 7. Either run and cement 9650' of 7" 26.0 PPF LT&C casing with 680 sx 50/50 Pozmix with 6 pps salt or plug and abandon as per BLM requirements.

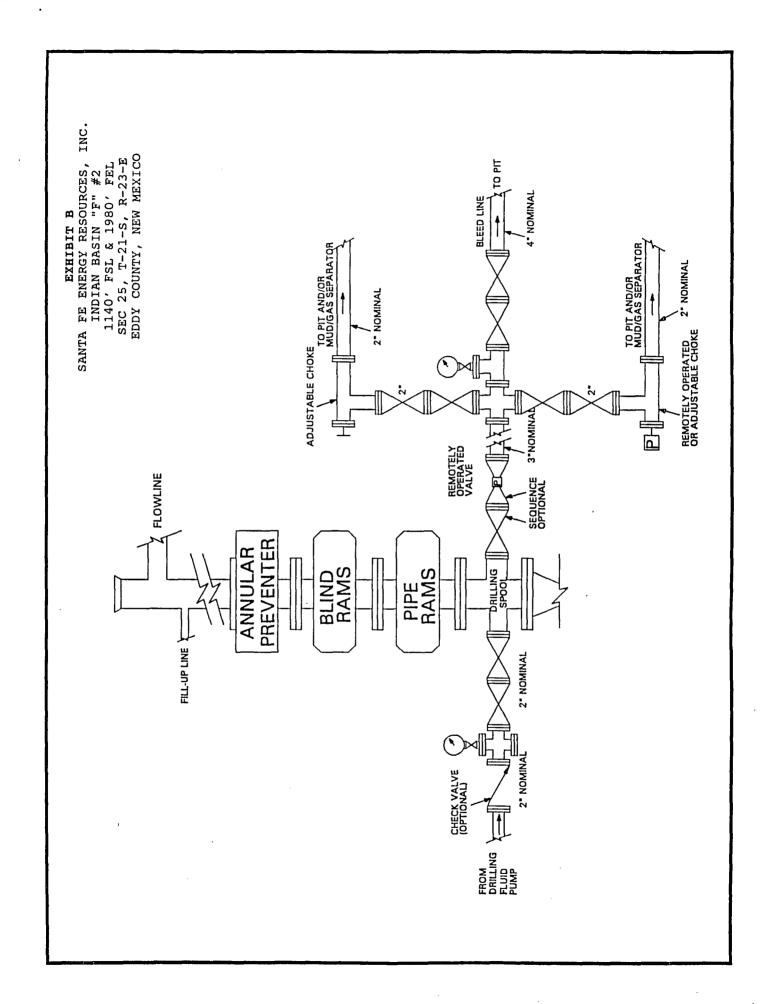
Exhibit "A"

Santa Fe Energy Resources, Inc.

Indian Basin "F" #2

Section 25, T-21-S, R-23-E

Eddy County, New Mexico



### PROPOSED DRILLING FLUID PROGRAM

### 0 - 1200'

Spud with air - air mist to 1200' if possible. If it becomes necessary to mud up due to hole conditions, utilize a fresh water gel system. Use ground paper for seepage control and to sweep the hole. MW-8.5 ppg and Vis-40.

### 1200 - 9650'

Drill out with fresh water circulating the reserve pit. Maintain pH at 8.5-9.5 with caustic and sweep the hole as necessary with ground paper. If it becomes necessary to mud up due to hole conditions, utilize a fresh water/Drispac system for 15-20 WL and a Vis of 30-32. MW-8.3/8.5 ppg.

Exhibit "C"

Santa Fe Energy Resources, Inc.

Indain Basin "F" #2

Section 25, T-21-S, R-23-E

Eddy County, New Mexico

### AUXILIARY EQUIPMENT

DRAWWORKS BDW 650 HP, with Parmac Hydromatic brake

Two Caterpillar D-353 diesels rated at 425 HP each **ENGINES** 

ROTARY Ideco 23", 300 ton capacity

MAST/SUB Ideal 132', 550,000 lb. rated static hook load with 10

lines. Wagner 15' high substructure

Gardner-Denver, 300 ton, 5 sheave w/BJ 250 ton hook Brewster Model 7 SX 300 ton swivel TRAVELLING

EQUIPMENT

PUMPS Continental-EMSCO DC-700 and DB-550, 5-1/2 X 16" Duplex,

Compound driven.

PIT SYSTEM 1-Shale Pit 6X7X35', 1-Setting Pit 6X7X38', 1-Suction Pit

6X7X34' w/5 mud agitators, Two Centrifugal mud mixing

pumps and a Double Screen Shale Shaker.

Two CAT 3306 diesel electric sets 18 KW prime power LIGHT

PLANT

BOP EQUIP. 13-5/8" 5000 psi WP double ram and 13-5/8" 5000 psi WP

Shaffer Annular Preventer. Choke manifold rated at 5000 psi. Valvcon 5-station 80 gallon closing unit.

Exhibit "D" Santa Fe Energy Resources, Inc. Indian Basin "F" #2 Section 25, T-21-S, R-23-E Eddy County, New Mexico

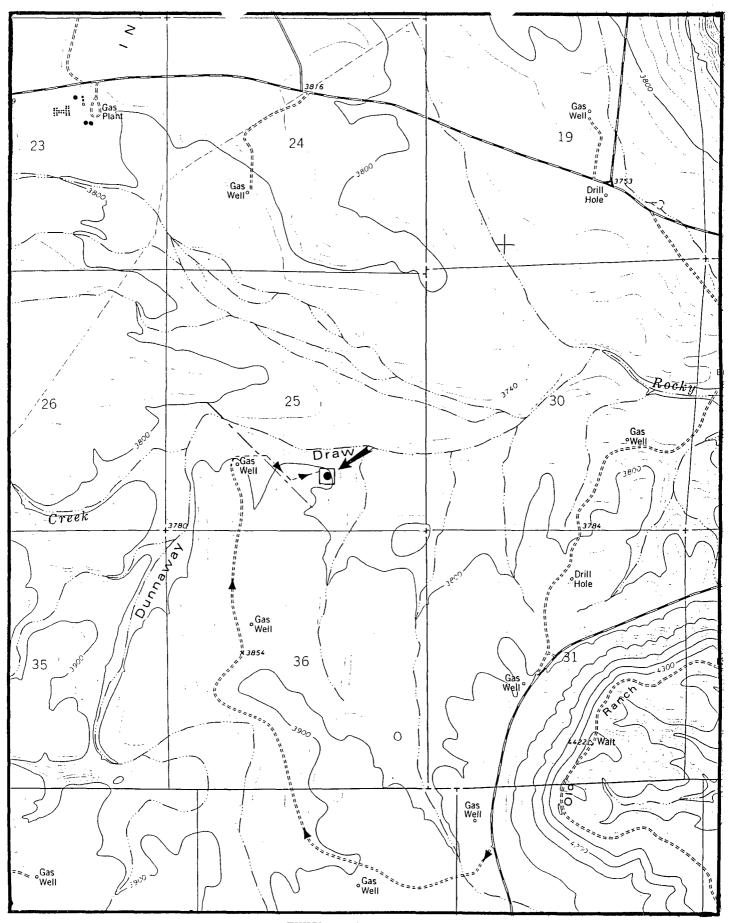


EXHIBIT E
TOPO MAP OF LOCATION AREA
SANTA FE ENERGY RESOURCES, INC.
INDIAN BASIN "F" #2
1140' FSL & 1980' FEL
SEC 25, T-21-S, R-23-E
FDDV COUNTY. NEW MEXICO

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### EXHIBIT F EXISTING WELLS

SANTA FE ENERGY RESOURCES, INC.
INDIAN BASIN "F" #2
1140' FSL & 1980' FEL
SEC 25, T-21-S, R-23-E
EDDY COUNTY, NEW MEXICO

EXHIBIT F (A)
PLAT OF LOCATION

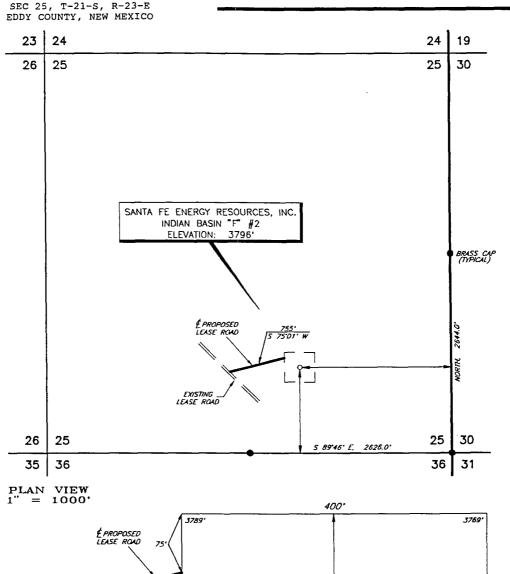
SANTA FE ENERGY RESOUR( INC
INDIAN BASIN "F" #~
1140' FSI & 1980' FSI.

INDIAN BASIN "F" #4.

1140' FSL & 1980' FEL

SEC 25, T-21-S, R-23-E

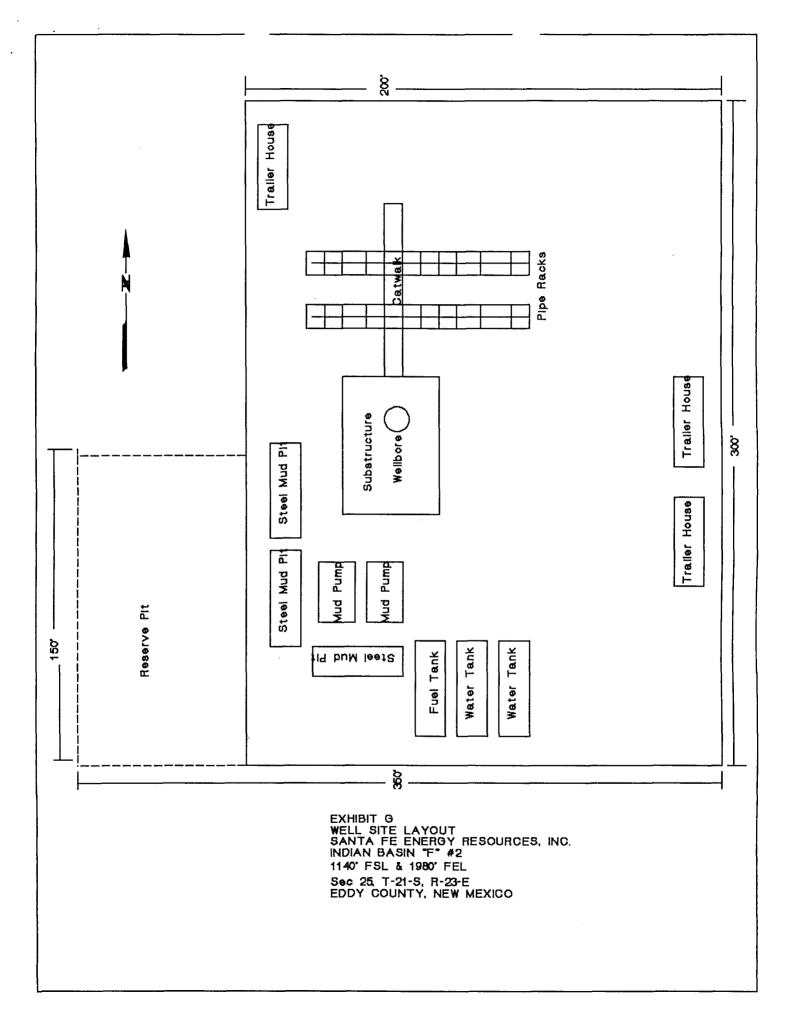
EDDY COUNTY, NEW MEXICO



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DETAIL VIEW 1" = 100'

NO. REVISION DATE BY	SANTA FE ENERGY RESOURCES, INC.	SCALE: AS SHOWN  DATE: 03/11/96  JOB NO.: 44374-F
SURVEYED BY: R.B.  DRAWN BY: JSJ  APPROVED BY: V.L.B.	SURVEYING AND MAPPING BY TOPOGRAPHIC LAND SURVEYORS MIDLAND, TEXAS	51 NE SHEET : 1 OF 1



# Santa Fe Energy Resources, Inc. MULTI-POINT SURFACE USE AND OPERATIONS PLAN Indian Basin "F" #2 Section 25, T-21-S, R-23-E Eddy County, New Mexico

This plan is submitted with Form 3160-3, Application for Permit to Drill, covering the above described well. The purpose of this plan is to describe the location of the proposed well, the proposed construction activities and operations plan, the magnitude of necessary surface disturbance involved, and the procedures to be followed by rehabilitating the surface after completion of the operations, so that a complete appraisal can be made of the environmental effects associated with the operation.

### 1. EXISTING ROADS.

A. Exhibit E is a 15 minute topo map which shows the location of the proposed wellsite and roads in the vicinity. The proposed location is situated approximately 17-1/2 miles West of Carlsbad, New Mexico.

### DIRECTIONS

1. From Carlsbad, go north 12 miles to intersection of Hwy. 285 and 137. Turn west onto Hwy 137, travel southwest for 12.3 miles and turn right on lease road for 1.7 miles to the SFER Indian Basin "F" #1. Follow the existing road north and east to the pipeline, go southeast for ±700' then turn left (east) ±600' to the proposed location.

### 2. PLANNED ACCESS ROAD.

- A. Approximately .4 mile of access road from the SFER Indian Basin "F" #1 to the proposed location will have to be repaired and built.
- LOCATION OF EXISTING WELLS.
  - A. The Indian Basin "F" #1 is located 1879' west of the proposed well.
- 4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES
  - A. In the event the well is productive, the necessary production equipment will be installed on the drilling pad.
- 5. LOCATION AND TYPE OF WATER SUPPLY.
  - A. It is planned to drill the well with fresh water systems. The water will be hauled to the location by truck over existing roads. It will be obtained from commercial sources. We also plan to utilize produced water from out offsetting wells to supplement our drilling water needs.
- 6. SOURCES OF CONSTRUCTION MATERIALS.
  - A. Any caliche required for construction of the drilling pad will be obtained from a pit located off the wellsite.
- 7. METHODS OF HANDLING WASTE DISPOSAL.
  - A. Drill cuttings will be disposed of in the reserve pits.
  - B. Drilling fluids will be allowed to evaporate in the reserve pits until the pits are dry.

# Indian Basin "F" #2 Multi-point Surface Use and Operations Plan Page 2

- C. Water produced during operations will be either placed in the reserve pits and allowed to evaporate or collected in tanks until hauled to an approved disposal system or a separate disposal application will be submitted to the BLM for appropriate approval.
- D. Oil produced during operations will be stored in tanks until sold.
- E. Human waste will be disposed of per current standards.
- F. Trash, waste paper, garbage, and junk will be collected in trash trailers and disposed of in an approved waste facility such as a land fill. The trash trailers will contain all of the material to prevent scattering by the wind.
- G. All trash and debris will be removed from the wellsite within 30 days after finishing drilling and/or completion operations.

### 8. ANCILLARY FACILITIES

A. None required at this time.

### 9. WELLSITE LAYOUT

- A. Exhibit G shows the dimensions of the well pad and reserve pits, and the location of major rig components. The V-door will be turned north.
- B. The ground surface of the location is situated on a relatively flat area with a steep drop off into Dunnaway Draw to the north. The location will be constructed by leveling the necessary area and covering the area with at least six inches of compacted caliche.
- C. The reserve pits will be plastic lined.
- D. A 400' X 400' work area which will contain the pad and pit area has been staked and flagged.

### 10. PLAN FOR RESTORATION OF THE SURFACE

- A. After finishing drilling and/or completion operations, all equipment and other material not needed for further operations will be removed. The location will be cleared of all trash and junk, to leave the wellsite in as aesthetically pleasing a condition as possible.
- B. Unguarded pits, if any, containing fluid will be fenced until they have been filled.
- C. If the proposed well is non-productive, all rehabilitation and/or vegetation requirements of the Bureau of Land Management and the United States Geological Survey will be complied with and will be accomplished as expeditiously as possible. All pits will be filled and levelled within 300 days after abandonment.

### 11. TOPOGRAPHY

- A. The top soil at the wellsite is very rocky.
- B. The vegetation cover at the wellsite is moderately sparse, with mesquite, prairie grasses, some yucca, prickly pear, sotol and miscellaneous weeds.

# Indian Basin "F" #2 Multi-Point Surface Use and Operations Plan Page 3

- C. No wildlife was observed but it is likely that deer, rabbits, coyotes, and rodents traverse the area.
- D. There are no ponds, lakes, streams or rivers within one mile of the wellsite.
- E. There is no evidence of any archaeological, historical, or cultural sites in the vicinity of the location.

### 12. OPERATOR'S REPRESENTATIVES

A. The field representatives responsible for assuring compliance with the approved surface use plan are:

Michael R. Burton
Division Operations Manager
Santa Fe Energy Resources, Inc.
550 W. Texas, Suite 1330
Midland, Texas 79701
915-686-6616 - office
915-559-6842 - cellular

Darrell Roberts
Division Drilling Engineer
Santa Fe Energy Resources, Inc.
550 W. Texas, Suite 1330
Midland, Texas 79701
915-686-6614 - office
915-553-1214 - cellular

### 13. CERTIFICATION

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Santa Fe Energy Resources, Inc. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which is approved.

SIGNED this 28th day of March

James P. (Phil) Stinson

Agent for Santa Fe Energy Resources, Inc.

### Santa Fe Energy Resources, Inc.

### HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

# Indian Basin "F" #2 Section 25, T-21-S, R-23-E Eddy County, New Mexico

In drilling the Cisco/Canyon formation there is very remote possibility that  $\rm H_2S$  will be encountered. The zone is hydrogen sulfide productive in the area. It is our understanding that hydrogen sulfide is only detected in the area whenever the reservoir fluids are produced up the wellbore. Our drilling fluid hydrostatic head will prevent fluid entry due to the reservoir being overbalanced. The following is our plan for drilling the Cisco/Canyon formation.

### 1. Hydrogen Sulfide Training

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on the well:

- 1. The hazards and characteristics of hydrogen sulfide (H,S).
- 2. The proper use and maintenance of personal protective equipment and life support systems.
- 3. The proper use of  $H_2S$  detectors, alarms, warning systems, briefing areas, evacuations procedures, and prevailing winds.
- 4. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

- 1. The effects of  $H_2S$  on metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
- Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
- The contents and requirements of the Hydrogen Sulfide Drilling Operations Plan.

There will be an initial training session prior to encountering the Cisco/Canyon (training will take place within 3 days or 500 feet) and will have weekly  $\rm H_2S$  and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific Hydrogen Sulfide Drilling Operations Plan. This plan shall be available at the well site. All personnel will be required to carry documentations that they have received the proper training.

### 2. H,S Safety Equipment and Systems

Note: All  $\rm H_2S$  safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the Cisco/Canyon zone at 7450'.

### Indian Basin "F" #2 H<sub>2</sub>S Drilling Operations Plan Page 2

### 1. Well Control Equipment:

An annular preventer capable of accommodating all pipe sizes with properly sized closing unit.

### 2. Protective Equipment for Personnel:

A. Scott Air-Pack Units located on the rig floor and at briefing areas, as indicated on well site diagram.

### 3. H.S Detection and Monitoring Equipment:

A. 2-portable  $H_2S$  monitors positioned on location for best coverage and response. These units have warning lights and audible sirens when  $H_2S$  levels of 200 ppm are reached.

### Visual Warning Systems:

- A. Wind direction indicators as shown on well site diagram.
- B. Caution/Danger signs shall be posted on roads providing direct access to location. Signs will be painted high visibility yellow with black lettering of sufficient size to be readable at a reasonable distance from the immediate location. See Example Attached.

### 5. Mud Program:

A. The mud program is designed to minimize any  $H_2S$  circulated to the surface. Proper mud weight, safe drilling practices, and the use of  $H_2S$  scavengers will be used to minimize hazards when penetrating  $H_2S$  bearing zones (Cisco/Canyon).

### 6. Metallurgy:

- A. All of the drill string, casing, tubing, wellhead, blowout preventers, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H<sub>2</sub>S service.
- B. All elastomers used for packing and seals shall be  $\mathrm{H}_2\mathrm{S}$  trim.

### 7. Communication:

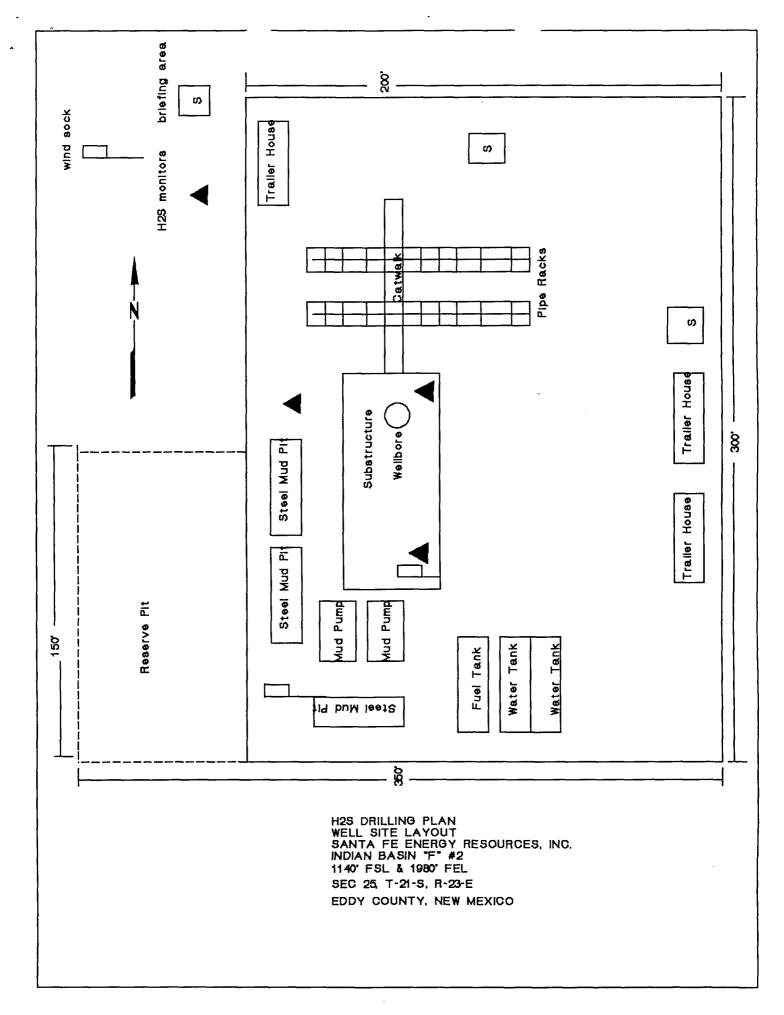
- A. Cellular phone communications in company vehicles.
- B. Radio communications on the drilling rig.

### 8. Well Testing:

A. All tests in the Cisco/Canyon formation will be conducted using the closed chamber method of drill stem testing.

James P. (Phil) Stinson

Agent for Santa Fe Energy Resources, Inc.



# **WARNING**

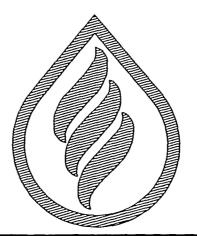
YOU ARE ENTERING AN H2S AREA

TIGHT HOLE LOCATION

DO NOT ENTER UNLESS YOU WERE CALLED !!

INDIAN BASIN "F" #2

SANTA FE ENERGY RESOURCES, INC.



Form 3160-5 (June 1990)

1. Type of Well OB Wen

12.

2. Name of Operator

3. Address and Telephone No.

Santa Fe Energy Resources, Inc.

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

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

(O) 1115' PSL & 2055' FEL Sec. 25, T-21-S, R-23-E

### **UNITED STATES** DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMEN'T

FORM APPROVED Budget Bureau No. 1004-0135

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Do not use this form for proposals to drill or to deepen or reentry to a different reservolu-Use "APPLICATION FOR PERMIT—" for such proposals

SUNDRY NOTICES use this form for proposals to dri	AND REPORTS ON WELLS  Ill or to deepen or reentry to a different reservoir.  R PERMIT—" for such proposals	5. Lease Designation and Serial No. NM 070522 6. If Indian, Allottee or Tribe Nama
	IN TRIPLICATE	7. If Unit or CA, Agreement Designation
Cil  Gas  Well Cother  perator  Fe Energy Resources, Inc.  d Telephone No.		8. Well Name and No. Indian Basin "F" #2 9. Arl Well No.
Texas, Suite 1330; Midlar (Well (Footege, Sec., T., R., M., or Survey IN 1315' PSL & 2055' FEL Sec.	escription)	10. Field and Pool, or Exploratory Alea Indian Basin Morrow II. County or Parish, State Eddy, New Hexico
CHECK APPROPRIATE BOX	e) TO INDICATE NATURE OF NOTICE, REPO	RT, OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTION	
Notice of Jatent  Subsequent Report  Pinal Abandonment Notice	Abumionnent Recompletion Plugging Back Casing Repair Akering Casing Other Move well location	Change of Plans  New Construction  Non-Rousing Practiting  Water Shut-Off  Conversion to Injection  Dispose Water

(Nate: Report remits of trustiple completion on Well Completion or Recompletion Report and Log form.) 13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertisent dates, including estimated date of starting any proposed work. If well is directionally drilled, give substricte locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

We respectfully request that the proposed location of the subject well. be moved par instructions from Barry Bunt. The proposed road is also re-routed.

The new location is (0) 1115' FSL & 2055' FEL, Sec. 25, T-21-S

A new C-102 (amended location plat) is attached.





14. I hereby certify that the foregoing is true with correct Signed Simol 9.	Title _	Agent for Santa Fe Energy	Date 4-11-96
(This inside for Federal y State office see) Approved by Conditions of approval, if any:	Title	Area Manager	Date 5/16/96

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, fictitions or fraudulent statements. or representations as to any matter within its jurisdiction

DISTRICT I P. 0. Box 1980 Hobbs, NM 88241-1980

State of New Mexico Enr. v, Minerals, and Natural Resources  $\Gamma$  artment

Form C-102 Revised 02-10-94

Instructions on back

Submit to the Appropriate District Office State Lease — 4 copies Fee Lease — 3 copies

DISTRICT II P. O. Drawer DD Artesia, NM 88211-0719

<u>DISTRICT III</u> 1000 Rio Brozos Rd. Aztec, NM 87410

OIL CONSERVATION DIVISION P. 0. Box 2088 Santa Fe, New Mexico 87504-2088

X AMENDED REPORT

DISTRICT IV

## P. O. Box 2088 Santa Fe, NM 87507—2088 WELL LOCATION AND ACREAGE DEDICATION PLAT

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API Number	<sup>2</sup> Pool Code	3 Pool 1		ian Basin	Morrow		_
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12 Dedicated Acres 13 Joint or Infill	14 Consolidation Code	15 Order No.	·				
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# Santa Fe Energy Resources, Inc. MULTI-POINT SURFACE USE AND OPERATIONS PLAN Indian Basin "F" #2 Section 25, T-21-S, R-23-E Eddy County, New Mexico

This plan is submitted with Form 3160-3, Application for Permit to Drill, covering the above described well. The purpose of this plan is to describe the location of the proposed well, the proposed construction activities and operations plan, the magnitude of necessary surface disturbance involved, and the procedures to be followed by rehabilitating the surface after completion of the operations, so that a complete appraisal can be made of the environmental effects associated with the operation.

### 1. EXISTING ROADS.

. . ·

A. Exhibit E is a 15 minute topo map which shows the location of the proposed wellsite and roads in the vicinity. The proposed location is situated approximately 17-1/2 miles West of Carlsbad, New Mexico.

### **DIRECTIONS**

 From Carlsbad, go north 12 miles to intersection of Hwy. 285 and 137. Turn west onto Hwy 137, travel southwest for 12.3 miles and turn right on lease road for 1.4 miles toward the SFER Indian Basin "F" #1. Turn right (northeast) for .4 mile to the proposed location.

### 2. PLANNED ACCESS ROAD.

A. Approximately .4 mile of access road from existing road the proposed location will have to be built.

### 3. LOCATION OF EXISTING WELLS.

A. The Indian Basin "F" #1 is located 1804' west of the proposed well.

### 4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

A. In the event the well is productive, the necessary production equipment will be installed on the drilling pad.

### 5. LOCATION AND TYPE OF WATER SUPPLY.

A. It is planned to drill the well with fresh water systems. The water will be hauled to the location by truck over existing roads. It will be obtained from commercial sources. We also plan to utilize produced water from out offsetting wells to supplement our drilling water needs.

### 6. SOURCES OF CONSTRUCTION MATERIALS.

A. Any caliche required for construction of the drilling pad will be obtained from a pit located off the wellsite.

### 7. METHODS OF HANDLING WASTE DISPOSAL.

- A. Drill cuttings will be disposed of in the reserve pits.
- B. Drilling fluids will be allowed to evaporate in the reserve pits until the pits are dry.

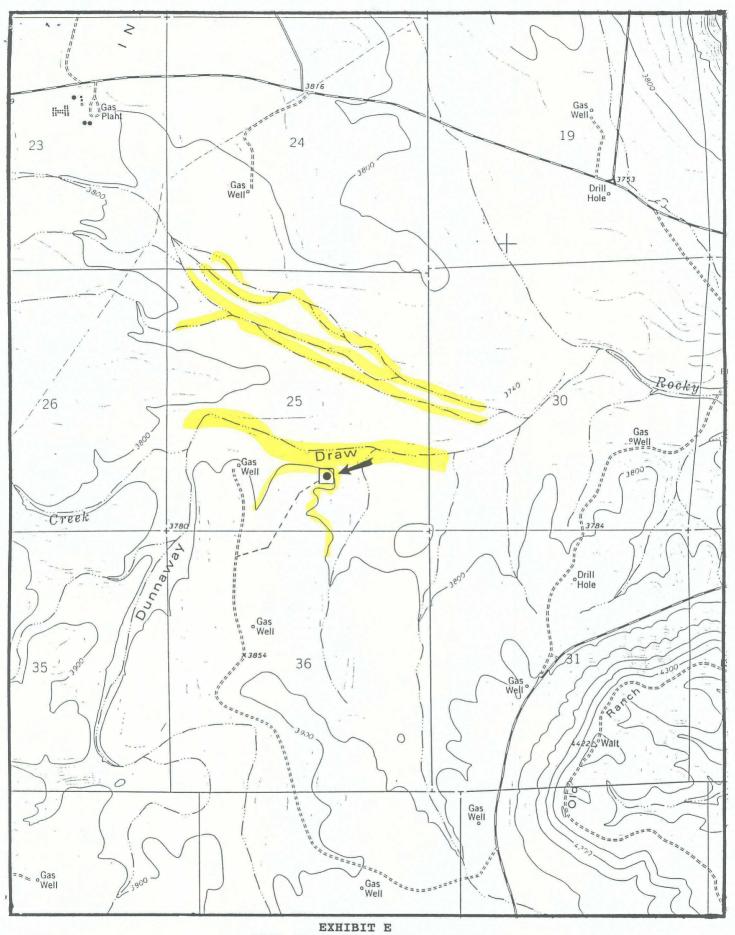


EXHIBIT E
TOPO MAP OF LOCATION AREA

SANTA FE ENERGY RESOURCES, INC.
INDIAN BASIN "F" #2

1115' FSL & 2055' FEL

SEC 25, T-21-S, R-23-E
EDDY COUNTY, NEW MEXICO

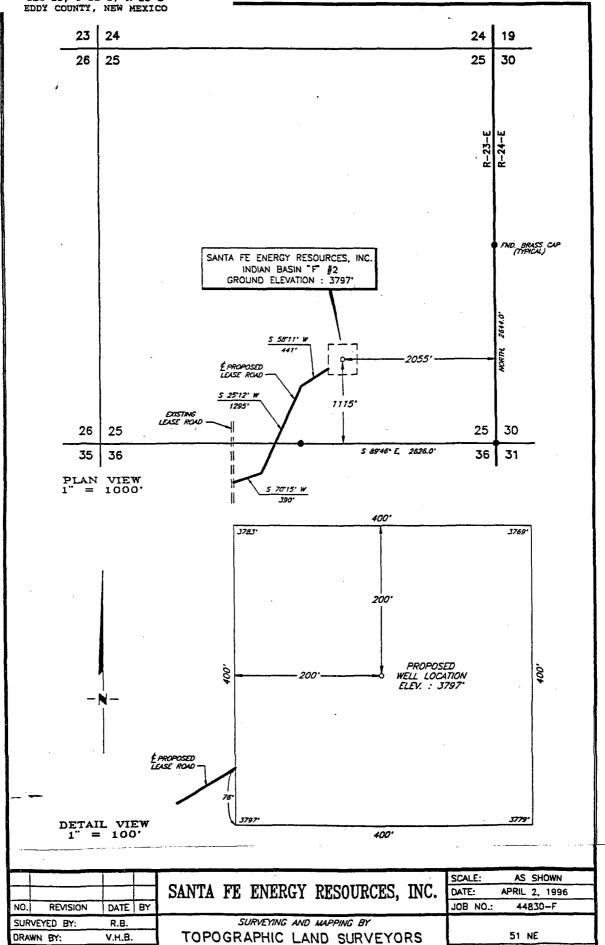
EXHIBIT F (A) PLAT OF LOCATION SANTA FE ENERGY RESOURCES, IN INDAIAN BASIN "F" #2 1115' FSL & 2055' FEL SEC 25, T-21-S, R-23-E EDDY COUNTY, NEW MEXICO

DRAWN BY:

APPROVED BY:

V.H.B.

V.L.B.

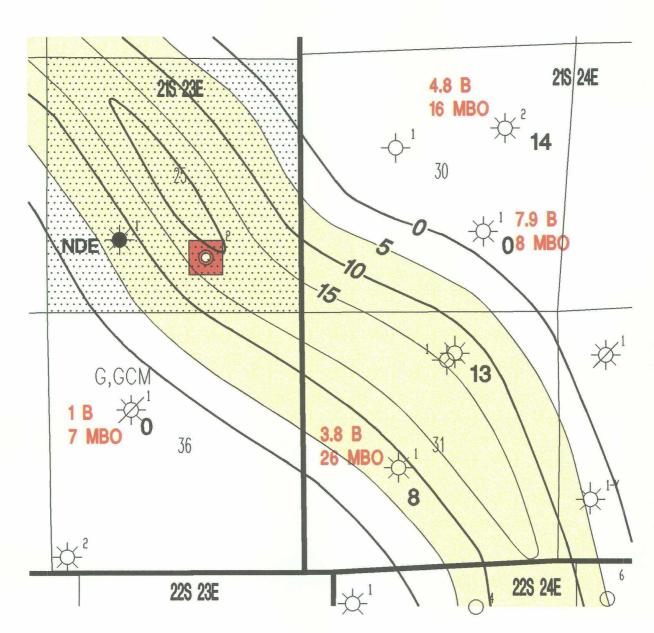


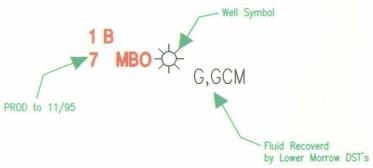
MIDLAND, TEXAS

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Graham   (Marathan)	US.  I Marathon Chevron HAP	U.S.  Marathan	1035021 U.3	U.S.  Nates Dria, etal	Yates Drig.,ctal	-





### NDE = NOT DEEP ENOUGH



PROPOSED LOCATION



SFER LEASEHOLD





Santa Fe Energy Resources. Inc. CENTRAL DIVISION MIDLAND, TEXAS

INDIAN BASIN SOUTH AREA **PONTIAC PROSPECT** EDDY COUNTY, NEW MEXICO

**NET SAND ISOPACH** LOWER MORROW SANDSTONES  $\varnothing_{\rm D} > 7\%$ ,  $\varnothing_{\rm S} > 63$  MS

Geol.: M. Dilli/G. Davis Scale: 1" = 4000' PONT-RRC.DWG

C.l.: 5' Date: 4-13-96

### BEFORE THE NEW MEXICO OIL CONSERVATION DIVISION

ADMINISTRATIVE APPLICATION OF SANTA FE ENERGY RESOURCES, INC. FOR AN UNORTHODOX WELL LOCATION, EDDY COUNTY, NEW MEXICO

### AFFIDAVIT REGARDING NOTICE

STATE OF NEW MEXICO ) COUNTY OF SANTA FE ) ss.
James Bruce, being duly sworn upon his oath, deposes and states:
1. I am over the age of 18, and have personal knowledge of the matters stated herein.
2. I am an attorney for Applicant.
3. Applicant has conducted a good faith, diligent effort to find the names and correct addresses of the interest owners entitled to receive notice of the Application filed herein.
4. Notice of the Application was provided to the interest owners at their correct addresses by certified mail. Copies of the notice letters are attached hereto as Exhibit A.
5. Applicant has complied with the notice provisions of Division Rules 104 and 1207.  James Suuce
James Bruce  SUBSCRIBED AND SWORN TO before me this day of May, 1996, by James Bruce.
Jose Romero
My Commission Expires:
9.7.99

### HINKLE, COX, EATON, COFFIELD & HENSLEY,

PAUL W. EATON
CONRAD E. COPFIELD
HAROLD I. HENSLEY, JR.
STUART D. SHANDR
ERIC D. LANPHERE
C. D. MARTIN
ROBERT P. TINNIN, JR.
MARSHALL G. MARTIN
MASTON C. COURTINEY
DON I. PATTERSON'
OUGLAS I. LUNSFORD
NICHOLAS J. NOEDING
T. CALDER EZZELL JR.
WILLIAM B. BUFFORD'
RICHARD E. DLSON
RICHARD E. OLSON
RICHARD E. OLSON
THOMAS J. MCBRIDE
NANCY S. CUSACK
JEFFREY L. FORNACIARI

JEFFREY D. HEWETT JAMES BRUCE
JERRY F. SHACKELFORDJEFFREY W. HELLBERGY
WILLIAM F. COUNTISS\*
MICHAEL J. CANON
ALBERT L. PITTS
THOMAS M. HNASKO
JOHN C. CHAMBERS\*
GARY D. COMPTON\*
W. H. BRIAN, JR.\*
RUSSELL J. BAILEY\*
CHARLES R. WATSON, JR.\*
STEVEN D. ARNOLD
THOMAS D. HAINES, JR.
GREGORY J. NIBERT
FRED W. SCHWENDIMANN
JAMES M. HUDSON

ATTORNEYS AT LAW

218 MONTEZUMA POST OFFICE BOX 2068

SANTA FE, NEW MEXICO 87504-2068

(505) 982-4554 FAX (505) 982-8623

LEWIS C. COX, JR. (1924-1993) CLARENCE E. HINKLE (1904-1985)

OF COUNSEL
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RICHARD L. CAZZELL\* RAY W. RICHARDS\*

AUSTIN AFFILIATION HOFFMAN & STEPHENS, P.C. KENNETH R. HOFFMAN\* TOM D. STEPHENS\* RONALD C. SCHULTZ, JR.\* JOSÉ CANO\* THOMAS E HOOD\*
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STANLEY K KOTOVSKY, JR.
ELLEN S. CASEY
MARGARET CARTER LUDEWIG
S. BARRY PAISNER
WYAIT L. BROOKS\*
DAVID L. BROOKS\*
DAVID L. BROOKS\*
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JULIE P. NEERKEN
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PAUL G. NASON
AMY C. WRIGHT\*
BRADLEY G. BISHOPKAROLYN KING NELSON
ELLEN T. LOUDERBOUGH
JAMES H. WOOD\*
NANCY L. STRATTON
TIMOTHY R. BROWN
IMMES C. MOD'N

\*NOT LICENSED IN NEW MEXICO

June 4, 1996

## VIA CERTIFIED MAIL RETURN RECEIPT REQUESTED

Orxy Energy Company Post Office Box 2880 Dallas, Texas 75221-2880

Marathon Oil Company Post office Box 552 Midland, Texas 79702

Kerr-McGee Corporation
Post Office Box 25861
Oklahoma City, Oklahoma 73125

Dear Sirs:

On June 4, 1996, Santa Fe Energy Resources, Inc. filed an application for administrative approval of an unorthodox gas well location for its Indian Basin "F" Well No. 2, to be located 1115 feet from the South line and 2055 feet from the East line of Section 25, Township 21 South, Range 23 East, Eddy County, New Mexico. The well will be drilled to test the Morrow formation (Indian Basin - Morrow Gas Pool), and all of Section 25 will be dedicated to the well. If you object to the well location, you must submit a written objection to the Division no later than June 24, 1996. The Division's address is 2040 South Pacheco Street, Santa Fe, New Mexico 87505.

Very truly yours,

HINKLE, COX, EATON, COFFIELD

& HENSLEY, L.L.P.

James Bruce

Attorneys for Santa Fe Energy Resources, Inc.

JB/bc

POST OFFICE BOX IO

ROSWELL, NEW MEXICO 88202

(505) 622-6510

FAX (505) 623-9332

POST OFFICE BOX 3580 MIDLAND, TEXAS 79702 (915) 683-4691 FAX (915) 683-6518 POST OFFICE BOX 9238 AMARILLO, TEXAS 79105 (806) 372-5569 FAX (806) 372-9761 POST OFFICE BOX 2043
ALBUQUERQUE, NEW MEXICO 87103
(505) 768-1500
FAX (505) 768-1529

401 W. ISTM STREET, SUITE 800 AUSTIN, TEXAS 78701 (SI2) 476-7137 FAX (SI2) 476-5431

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CMD : OG5SECT

ONGARD INQUIRE LAND BY SECTION 07/05/96 07:49:48 OGOMES -EMEY

PAGE NO: 1

Sec : 25 Twp : 21S Rng : 23E Section Type : NORMAL

D	C	В	A
40.00	40.00	40.00	40.00
Federal owned	     Federal owned   	   Federal owned 	     Federal owned   
E 40.00	   F   40.00	G   40.00	H   40.00
Federal owned	     Federal owned	   Federal owned	  -   Federal owned
,			
PF01 HELP PF02	PF03 EXIT	PF04 GoTo PF05	PF06
PF07 BKWD PF08 FW	D PF09 PRINT	PF10 SDIV PF11	PF12

07/05/96 07:50:11 CMD : ONGARD

OG6CLOG C105-WELL COMPLETION OR RECOMP CASING LOG OGOMES -EMEY

OGRID Identifier : 20305 SANTA FE ENERGY RESOURCES INC

Prop Identifier : 18965 INDIAN BASIN F

API Well Identifier: 30 15 28987 Well No: 2

Surface Locn - UL: O Sec: 25 Twp: 21S Range: 23E Lot Idn:

 $\label{eq:multiple_comp} \text{Multple comp } (\text{S/M/C}): \text{N} \qquad \text{TVD Depth (Feet)}: \qquad \qquad \text{MVD Depth (Feet)}:$ 

P/A Date : Spud Date :

Casing/Linear Record:

\_\_\_\_\_\_ -----

S Size Grade Weight Depth(ft) Depth(ft) Hole Size Cement ---- TOC ----(inches) (lb/ft) Top-Liner Bot-Liner (inches) (Sacks) (feet) Code 

E0004: No matching record found. Enter data to create.

PF03 EXIT PF04 GoTo PF05 PF01 HELP PF02 PF06 CONFIRM

PF08 PF07 PF09 COMMENT PF10 TLOG PF11 PF12 CMD: ONGARD 07/05/96 07:50:21 OG6C101 C101-APPLICATION FOR PERMIT TO DRILL OGOMES -EMEY

OGRID Idn : 20305 API Well No: 30 15 28987 APD Status(A/C/P): A

Opr Name, Addr: SANTA FE ENERGY RESOURCES INC Aprvl/Cncl Date : 05-16-1996

550 W. TEXAS SUITE 1330

MIDLAND, TX 79701

Prop Idn: 18965 INDIAN BASIN F Well No: 2

U/L Sec Township Range Lot Idn North/South East/West

Surface Locn : 0 25 21S 23E FTG 1115 F S FTG 2055 F E

OCD U/L : O API County : 15

Work typ (N/E/D/P/A) : N Well typ (O/G/M/I/S/W/C) : G Cable/Rotary (C/R) : R

Lease typ(F/S/P/N/J/U/I): F Ground Level Elevation: 3796

State Lease No: Multiple Comp (Y/N) : N

Prpsd Depth : 9650 Prpsd Frmtn : MORROW

E0009: Enter data to modify record

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM

PF07 PF08 PF09 PRINT PF10 C102 PF11 HISTORY PF12

CMD: ONGARD 07/05/96 07:50:52

OG6CLOG C105-WELL COMPLETION OR RECOMP CASING LOG OGOMES -EMEY

OGRID Identifier : 20305 SANTA FE ENERGY RESOURCES INC

Prop Identifier : 16713 INDIAN BASIN FEDERAL F

API Well Identifier: 30 15 10710 Well No: 001

Surface Locn - UL : K Sec : 25 Twp : 21S Range : 23E Lot Idn :

Multple comp (S/M/C): S TVD Depth (Feet): 99999 MVD Depth (Feet):

Spud Date : P/A Date :

Casing/Linear Record:

\_\_\_\_\_

E0009: Enter data to modify record

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM

PF07 PF08 PF09 COMMENT PF10 TLOG PF11 PF12

CMD : OG6IWCM ONGARD
INQUIRE WELL COMPLETIONS

07/05/96 07:51:00 OGOMES -EMEY

Pool Idn : 33685 INDIAN BASIN; UPPER PENN (ASSOC)
OGRID Idn : 20305 SANTA FE ENERGY RESOURCES INC

Prop Idn : 16713 INDIAN BASIN FEDERAL F

Well No : 001 GL Elevation: 3793

U/L Sec Township Range North/South East/West Prop/Act(P/A)

B.H. Locn : K 25 21S 23E FTG 1500 F S FTG 1500 F W A

Lot Identifier:

Dedicated Acre: 320.00

Lease Type : F

Type of consolidation (Comm, Unit, Forced Pooling - C/U/F/O) :

M0025: Enter PF keys to scroll

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06

PF07 PF08 PF09 PF10 NEXT-WC PF11 HISTORY PF12 NXTREC

CMD: ONGARD 07/05/96 07:51:07 C101-APPLICATION FOR PERMIT TO DRILL OGOMES -EMEY OG6C101

OGRID Idn : 20305 API Well No: 30 15 10710 APD Status(A/C/P): A

Opr Name, Addr: SANTA FE ENERGY RESOURCES INC Aprvl/Cncl Date : 01-01-1995

550 W. TEXAS SUITE 1330

MIDLAND, TX 79701

Prop Idn: 16713 INDIAN BASIN FEDERAL F Well No: 1

U/L Sec Township Range Lot Idn North/South East/West

FTG 1500 F S FTG 1500 F W Surface Locn: K 25 21S 23E

OCD U/L : K API County : 15

Work typ (N/E/D/P/A) : N Well typ (O/G/M/I/S/W/C) : G Cable/Rotary (C/R) : R

Lease typ(F/S/P/N/J/U/I): F Ground Level Elevation: 3793

Multiple Comp (Y/N) : S State Lease No:

Prpsd Depth : Prpsd Frmtn :

E0009: Enter data to modify record

PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM PF01 HELP PF02

PF09 PRINT PF10 C102 PF11 HISTORY PF12 PF08 PF07