Form 3160-3 (July 1992)		IL CONS. COMMISS	SUBMIT IN TIN	PLICATE• ons on e)	FORM APPROVED OMB NO. 1004-0136 Expires: February 28, 1995		
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		LAND MANAGEMENT			86151		
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	gy Resources, Inc.			9. API V	VELL NO.		
ADDRESS AND TELEPHONE NO.		- 1 70701	(015) (00) (07)		LD AND POOL, OR WILDCAT		
550 W. Texas, Suite 1330; Midland, Texas 79701 (915)682 6323 4. LOCATION OF WELL (Report location clearly and in accordance and a contract of the second sec					Sand Dunes, DB-Belaware /Bong Sprin 11. SEC., T., R., M., OR BLK.		
(A) 660' FNL & 990' FEL PROPERTY NO. 18/11					AND SUBVEY OF AREA		
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5. DISTANCE FROM PROP LOCATION TO NEARES PROPERTY OR LEASE I (Also to nearest dr)	T LINE, FT.	330'	40	TO THIS WELL	ABSIGNED 40		
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I. ELEVATIONS (Show wh	ether DF, RT, GR, etc.)			22. A	PPROX. DATE WORK WILL START*		
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•	F	PROPOSED CASING AND (CEMENTING PROGRAM				
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	D - Auxiliary Equ	ipment Ex	hibit G - Well S rface Use and Op	—			
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DRILLING PROGRAM SANTA FE ENERGY RESOURCES, INC. TOMCAT "18" Fed. No. 1

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

1. Geologic Name of Surface Formation: Permian

2. Estimated Tops of Significant Geologic Markers:

9301			
4600 <i>'</i>			
4580 <i>'</i>			
5650′			
8600′			
8850′			

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

Water	None expected in area
Oil	Delaware @ 4600'
	Bone Spring @ 8600'

- 4. Proposed Casing Program: See Form 3160-3 and Exhibit A.
- 5. Pressure Control Equipment: See Exhibit B.
- 6. Drilling Fluid Program: See Exhibit C.
- 7. Auxiliary Equipment: A mud logging unit will be utilized to monitor penetration rate and hydrocarbon shows while drilling below the intermediate casing at 4600'.
- 8. Testing, Logging, and Coring Program:

Drill Stem Tests: None Planned.

Logging:

Dual Laterolog w/MSFL and Gamma Ray4600'-8850'Compensated Neutron/Litho-Density/Gamma Ray4600'-8850'Compensated Neutron/Gamma Ray (thru csg)Surface-4600'

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DRILLING PROGRAM Tomcat "18" Fed. No. 1 Page 2

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

No abnormal pressures or temperatures are anticipated. The estimated bottom hole temperature is 135° psi and the estimated bottom hole pressure is 3100 psi. No Hydrogen Sulfide or other hazardous gases or fluids have been encountered, reported or are known to exist at this depth in this area. No major lost circulation zones have been reported in the offsetting wells.

10. Anticipated Starting Date and Duration of Operations:

Road and location work will not begin until approval has been received from the BLM. The anticipated spud date is March 10, 1996. Once spudded the drilling operation should be completed in approximately 15 days. If the well is productive, an additional 30 days will be required for completion and testing before permanent facilities are installed.



EXHIBIT A OPERATIONS PLAN SANTA FE ENERGY RESOURCES, INC. Tomcat "18" Federal No. 1 Section 18, T-23-S, R-32-E Lea County, New Mexico

- 1. Drill a 17-1/2" hole to approximately 600'.
- Run 13-3/8" 48.0 ppf H-40 ST&C casing. Cement with 600 sx Class "C" cement containing 2% CaCl_{2"} Run centralizers on every other joint above the shoe. Apply thread lock to bottom two joints and guide shoe.
- 3. Wait on cement twelve hours prior to cutting off.
- 4. Nipple up an annular BOP system and test casing to 600 psi. WOC twentyfour (24) hours prior to drilling out.
- 5. Drill a 11" hole to approximately 4600'.
- 6. Run 8-5/8" 32.0 ppf K-55 ST&C casing. Cement with 1100 sx Cl "C" Lite containing 12 pps salt and 1/4 pps celloflake followed by 200 sx Class "C" with 2% CaCl₂. Run guide shoe on bottom and float collar two joints from bottom. Centralize every other joint for bottom 400' of casing and place two centralizers in surface casing. Thread lock bottom 2 joints.
- 7. Wait on cement for twelve hours prior to cutting off.
- 8. Nipple up and install a 3000 psi. Double Ram and Annular BOP system with choke manifold. WOC 24 hours prior to drilling out.
- 9. Test BOP system to 1500 psi with the rig pump. Test casing to 1500 psi.
- 10. Drill 7-7/8" hole to 8850'. Run logs.
- 11. Either run and cement 8850' of 5-1/2" 17.0 pp K-55 LT&C 5-1/2" 15.50 ppf K-55 LT&C casing or plug and abandon as per BLM requirements.

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EXHIBIT C DRILLING FLUID PROGRAM SANTA FE ENERGY RESOURCES, INC. Tomcat "18" FED NO. 1 Section 18, T-23-S, R-32-E Lea County, New Mexico

0-600'

Spud mud consisting of fresh water gel flocculated with lime. Use ground paper for seepage control and to sweep the hole. MW-8.5 ppg, Vis-40.

600'-4600'

Drill out with brine water circulating the inner portion of the reserve pit. Utilize ground paper mixed in prehydrated fresh gel to sweep the hole. MW-10.0 ppg, Vis-28.

4600'-8850'

Drill out with cut brine (30,000 ppm chlorides minimum) circulating the outer portion of 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 cut brine/Drispac system for 15-20 WL and a Vis of 30-32. MW-8.5/8.9 ppg.



EXHIBIT D AUXILIARY EQUIPMENT Santa Fe Energy Resources, Inc. Tomcat "18" Federal No. 1 Section 18, T-23-S, R-32-E Lea County, New Mexico

DRAWWORKS BDW 650M 650 HP, with Parmac Hydromatic brake

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

ROTARY Ideco 23", 300 ton capacity

MAST/SUB Ideal 132', 550,000 lb rated static hook load with 10 lines. Wagner 15' high substructure

TRAVELLINGGardner-Denver, 300 ton, 5 sheave w/BJ 250 ton hook.**EQUIPMENT**Brewster Model 7 SX 300 ton swivel

- **PUMPS** Continental-EMSCO DC-700 and DB-550, 5-12 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.
- LIGHT Two CAT 3306 diesel electric sets 180 KW prime power PLANT

BOP	13-5/8"	3000 psi WP double ram and 13-5/8" 3000 psi WP Shaffer	
EQUIP	Annular	Preventer. Choke manifold rated at 3000 psi. Valvcon 5-	-
	station	80 gallon closing unit	





EXHIBIT E TOPO MAP OF LOCATION AREA SANTA FE ENERGY RESOURCES, INC. TOMCAT "18" FED NO. 1 660' FNL & 990' FEL SEC 18, T-23-S, R-32-E LEA COUNTY, NEW MEXICO

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EXHIBIT F EXISTING WELLS SANTA FE ENERGY RESOURCES, INC. TOMCAT "18" FED NO. 1 660' FNL & 990' FEL SEC 18, T-23-S, R-32-E LEA COUNTY, NEW MEXICO







MULTI-POINT SURFACE USE AND OPERATIONS PLAN SANTA FE ENERGY RESOURCES, INC. Tomcat "18" FEDERAL NO. 1 SECTION 18, T-23-S, R-32-E LEA 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 in 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 topographic map which shows the location of the proposed wellsite and roads in the vicinity. The proposed location is situated approximately 24 miles east of Loving, New Mexico.

DIRECTIONS:

1. From the intersection of State Hwy 128 & Hwy 31, (east of Carlsbad, N.M.) go east on Hwy 128 for 18 miles. Turn left (north) on paved road (Red Road), go north for 3 miles and turn right on existing lease road for 1.7 miles. The proposed location will be ±1400' to the north.

2. PLANNED ACCESS ROAD.

Approximately 3000' of the existing lease road will have to be repaired and ± 1400 ' of new access road will have to be built to the proposed location.

3. LOCATION OF EXISTING WELLS.

A. The well locations in the vicinity of the proposed well are shown in Exhibits E & F.

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES.

- A. There are no producing oil wells on the lease at this time.
- B. In the event the well is productive, the necessary production facilities will be installed on the location.

MULTI-POINT SURFACE USE AND OPERATIONS PLAN Tomcat "18" FED No. 1 Page 2

5. LOCATION AND TYPE OF WATER SUPPLY

A. It is planned to drill the well with both fresh water and brine water systems. Both types of waters will be hauled to the location by truck over existing roads. Both types will be obtained from commercial sources. We also plan to use produced water from our offsetting wells to drill the intermediate portion of the hole.

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.
- 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 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.

Multi-Point Surface Use and Operations Plan Tomcat "18" FED No. 1 Page 3

- B. The ground surface of the location is sandy with sparse vegetation. The location will be constructed by leveling the necessary dunes and covering the sand 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 an 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 wellsite and access route are located in a relatively flat area.
- B. The top soil at the wellsite is sandy.
- C. The vegetation cover at the wellsite is moderately sparse with prairie grasses, some mesquite bushes, and shinnery oak.
- D. No wildlife was observed but it is likely that deer, rabbits, coyotes, and rodents traverse the area.
- E. There are no ponds, lakes, streams, or rivers within one mile of the wellsite.

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Multi-Point Surface Use and Operations Plan Tomcat "18" FED NO. 1 Page 4

12. OPERATOR'S REPRESENTATIVES

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

Michael R. Burton	Darrell Roberts
Division Operations Manager	Division Drilling Engineer
Santa Fe Energy Resources, Inc.	Santa Fe Energy Resources, Inc.
550 W. Texas, Suite 1330	550 W. Texas, Suite 1330
Midland, Texas 79701	Midland, Texas 79701
915-686-6616 - office	915-686-6614 - office
915-699-1260 - home	915-684-4130 - home
915-529-6842 - cellular	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 it is approved.

SIGNED this <u>6</u>Th day of <u>Feb.</u>, 1995.

James P. (Phil) Stinson

Agent for Santa Fe Energy Resources, Inc.

28/8/19 ***** 7.24

128430S Hobbs OCD