Form 3160-3 November 1983) (unneriv 9-331C)				ICATE.	Form approved Budget Bureau - Expires Augus	No. 1004-0136() t 31, 1985
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IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive sone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout presenter program, if any.

SIGNED _ Langel Johnt	TITLE Sr. Drilling Engineer	DATE 4/7/93
This space for Federal or State office use)		
APPROVED BY RAPPROVAL IF ANY:	TITLE Acty State Duector	DATE 7-16-93
ASHERAL RECEIPTOR AND	nstructions On Reverse Side	

# 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 fictulous or fraudulant statements.

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

DISTRICT I P. J. Box 980 Hodds, NM 88240

<u>DISTRICT II</u> P. O. Drawer DD Artesia, NM 88210

State of New Mexico Energy, Minerals, and Natural Resources Department

Form C-102 Revised 1-1-89

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

	FE ENERGY		RT., L.P.	Lease NORTH	PURE	GOLD '8'	FE	DERAL	Well 5	
nit Letter ()	Section 8	Township 23	SOUTH	Range 31	EAST.	N. <b>M</b> .P.M.		County	EDDY	
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#### DRILLING PROGRAM SANTA FE ENERGY OPERATING PARTNERS, L.P. North Pure Gold 8 Federal No. 5

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. 10.

### 1. Geologic Name of Surface Formation: Alluvium

## 2. Estimated Tops of Significant Geologic Markers:

Rustler Anhydrite	750*
Base of Salt	3840`
Delaware "Ramsey" Sand	4170
Cherry Canvon	5070
Brushy Canyon	7790
Bone Spring	8060.
Total Depth	8200*

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

Water	None expected in area
Oil	Delaware Sand @ 4170
Oil	Lower Brushy Canvon @ 7790'

- 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 4100°.
- 8. Testing, Logging and Coring Program:

None

#### **DRILLING PROGRAM** North Pure Gold 8 Federal No. 5 Page 2

Logging:

Dual Laterolog w/MSFL and Gamma Rav4100'-8200'Compensated Neutron/Litho-Density/Gamma Ray4100'-8200'Compensated Neutron/Gamma Ray(thru csg)Surface-4100'

Coring: No conventional cores are planned.

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

No abnormal pressures or temperatures are anticipated. The estimated bottom hole temperature is 135 °F and the estimated bottom hole pressure is 3500 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 July 15, 1993. Once spudded, the drilling operation should be completed in approximately 16 days. If the well is productive, an additional 30 days will be required for completion and testing before permanent facilities are installed.

#### SANTA FE ENERGY OPERATING PARTNERS.L.P. OPERATIONS PLAN North Pure Gold 8 Federal No. 5

- 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<sub>2</sub>. Run centralizers on every other joint above the shoe. Apply thread lock to bottom two joints and guide shoe.
- 3. Wait on cement four hours prior to cutting off.
- 4. Nipple up a annular BOP system and test casing to 600 psi.
- 5. Drill a 12 1/4" hole to approximately 4130'.
- 6. Run 8 5/8" 32.0 ppf K-55 ST&C casing. Cement with 1750 sx Cl "C" Lite containing 12 pps salt and 1/4 pps celloflake followed by 250 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 for bottom 400' of casing and place two centralizers in surface casing. Thread lock bottom 2 joints.
- 7. Wait on cement for six hours prior to cutting off.
- 8. Nipple up and install a 3000 psi. Double Ram and Annular BOP system with choke manifold.
- 9. Test BOP system to 3000 psi. Test casing to 1500 psi.
- 10. Drill 7 7/8" hole to 8200'. Run logs.
- 11. Either run and cement 5 1/2" 15.50 ppf K-55 LT&C casing or plug and abandon as per BLM requirements.

Exhibit A Santa Fe Energy Operating Partners, L.P. North Pure Gold 8 Federal No. 5 Section 8, T-23S, R-31E Eddy County, New Mexico

**FJM:NPG8** 



PROPOSED 3-M BOPE AND CHOKE ARRANGEMENT

#### PROPOSED DRILLING FLUID PROGRAM

#### <u>0 - 600`</u>

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 and Vis-40.

#### <u>600-4130`</u>

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 and Vis-28.

#### <u>4130-8200°</u>

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 necessarv with ground paper. If it becomes necessarv 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 C Santa Fe Energy Operating Partners.L.P. North Pure Gold 8 Federal No. 5 Section 8, T-23S, R-31E Eddy County, New Mexico

TJM:NPG8

#### AUXILIARY EQUIPMENT

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<sup>\*</sup>,550,000 lb rated static hook load with 10 line Wagner 15<sup>\*</sup> high substructure
- TRAVELLINGGardner-Denver,300 ton,5 sheave w/ BJ 250 ton hook.EQUIPMENTBrewster Model 7 SX 300 ton swivel.
- PUMPS Continental-EMSCO DC-700 and DB-550, 5 1/2 X 16" Duplex, Compound driven.
- PIT SYSTEM 1-Shale Pit 6X7X35<sup>°</sup>, 1-Settling Pit 6X7X38<sup>°</sup>, 1-Suction Pit 6X7X34<sup>°</sup> 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

BOP13 5/8" 5000 psi WP double ram and 13 5/8" 5000 psi WP Shaffer AnnularEQUIPPreventer. Choke manifold rated at 5000 psi. Valvcon 5-station 80 gallon<br/>closing unit.

Exhibit D Santa Fe Energy Operating Partners, L.P. North Pure Gold 8 Federal No. 5 Section 8, T-23S, R-31E Eddy County, New Mexico

DDR/tjm NPG8

## LOCATION & ELEVATION VERIFICATION MAP



SCALE : 1'' = 2000'

CONTOUR INTERVAL 10'

### EXHIBIT E

SANTA FE ENERGY OPERATING PARTNERS, LP. North Pure Gold "8" Fed. #5660' FSL & 2310' FEL Sec. 8, T-23-S,R-31-E EDDY COUNTY, NEW MEXICO

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## EXHIBIT F

SANTA FE ENERGY OPERATING PARTNERS, LP. North Pure Gold "8" Fed. #5 660' FSL & 2310' FEL Sec. 8, T-23-S,R-31-E EDDY COUNTY, NEW MEXICO



### MULTI-POINT SURFACE USE AND OPERATIONS PLAN SANTA FE ENERGY OPERATING PARTNERS, L.P. North Pure Gold 8 Federal No. 5 660' FSL & 2310' FEL Section 8, T-23S, R-31E 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 topographic map which shows location of the proposed wellsite and roads in the vicinity. The proposed location is situated approximately 18 miles northeast of Loving, New Mexico.

#### **DIRECTIONS:**

- 1. From the junction of State Highwav 128 and the Lea/Eddy County line, go 6.1 miles West on State Highwav 128. Turn northeasterly onto existing lease road and travel 0.4 mile, then northwesterly 0.5 mile to a point 200° northeast of the location.
- 2. PLANNED ACCESS ROAD.

A 14' wide access road will be constructed from the existing lease road 200' southeast to the location.

- 3. LOCATION OF EXISTING WELLS.
  - A. The Well Locations in the vicinity of the proposed well are shown Exhibits E & F.
- 4. LOCATION OF EXISTING AND/ OR PROPOSED FACILITIES.
  - A. There is one producing gas well (North Pure Gold 8 Fed. No. 1) on this lease at this time.
  - B. In the event the well is productive, the necessary production equipment will be installed on the drilling pad. If the well is productive of oil, a gas or diesel self-contained unit will be used to the necessary power.

#### Multi-Point Surface Use and Operations Plan

North Pure Gold 8 Federal No. 5 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.

#### 6. SOURCES OF CONSTRUCTION MATERIALS.

A. Any caliche required for construction of the drilling pad will be obtained from a pit located in NW/4 of SW/4 Section 20, which is 3/4 mile south on Twin Wells Road.

#### 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 contain all of the material to prevent scattering by the wind.
- G. All debris will be removed from the wellsite within 30 days after finishing drilling and/or completion operations.
- 8. ANCILLARY FACILITIES.

None required

- 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

North Pure Gold 8 Federal No. 5 Page 3

- B. The ground surface of the location is located among several sand dunes with vegetation growing on them. The location will constructed by leveling the necessary dune 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 shinnerv 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.
- F. There is no evidence of any archaeological, historical, or cultural sites in the vicinity of the location.

#### Multi-Point Surface Use and Operations Plan

North Pure Gold 8 Federal No. 5 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	Senior Drilling Engineer
Santa Fe Energy Operating	Santa Fe Energy Operating
Partners, L.P.	Partners, L.P.
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
915-559-6842 - 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 Operating Partners, L.P., and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

SIGNED this \_\_\_\_\_\_ day of April. 1993. \_\_\_\_\_ Zausel\_ Achati-\_\_\_\_\_ Darrell Roberts. Senior Drilling Engineer

DDR/tim NPG8