

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
DRILL ☒ PLUG BACK ☐

b. TYPE OF WELL
OIL WELL ☒ GAS WELL ☐ OTHER ☐

2. NAME OF OPERATOR
Santa Fe Energy Operating Partners, L.P.

3. ADDRESS OF OPERATOR
550 W. Texas, Suite 1330, Midland, Texas 79701

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
At surface (L), 1780' FSL and 530' NW, Sec. 17, T-23S, R-31E
At proposed prod. zone

5. LEASE DESIGNATION AND SERIAL NO.
NM-45235

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Pure Gold C-17 Federal

9. WELL NO.
14

10. FIELD AND POOL, OR WILDCAT
Sand Dunes, West (Delaware)

11. SEC., T., R., M., OR BLM. AND SURVEY OR AREA
Sec. 17, T-23S, R-31E

12. COUNTY OR PARISH 13. STATE
Eddy NM

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
18 miles East of Loving, New Mexico

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)
330'

16. NO. OF ACRES IN LEASE
480

17. NO. OF ACRES ASSIGNED TO THIS WELL
40

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
1650'

19. PROPOSED DEPTH
8200'

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
3313' GR

22. APPROX. DATE WORK WILL START*
June 15, 1993

23. PROPOSED CASING AND CEMENTING PROGRAM Secretary's Potash / R-111-P Potash

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8"	48.0	600'	600 sx to circulate
12-1/4"	8-5/8"	32.0	4130'	2000 sx to circulate
7-7/8"	5-1/2"	15.50	8200'	To tie back to 4130' at least 3900'

We propose to drill to a depth sufficient to test the Delaware formation for oil. If productive, 5-1/2" casing will be cemented at TD. If non-productive, the well will be plugged and abandoned in a manner consistent with Federal Regulations. Specific programs as per Onshore Oil and Gas Order No. 1 are outlined in the following attachments:

Drilling Program

Exhibit A - Operations Plan
Exhibit B - BOP and Choke
Exhibit C - Drilling Fluid Program
Exhibit D - Auxiliary Equipment
Exhibit E - Topo Map of Location

Exhibit F - Plat Showing Existing Wells
Exhibit G - Well Site Layout
Surface Use and Operations Plan

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. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED Daniel Roberts TITLE Sr. Drilling Engineer DATE November 19, 1992

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

APPROVAL SUBJECT TO ANY:

GENERAL REQUIREMENTS AND

SPECIAL STIPULATIONS

ATTACHED, and to NMCD'S R-111-P See Instructions On Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

MINERAL OILS. COMMISSION
Drawer DD
Artesia, NM 88210

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No.
NM-45235

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Pure Gold C-17 Fed #14

9. API Well No.

Not yet assigned

10. Field and Pool, or Exploratory Area

Sand Dunes, West (Delaware

11. County or Parish, State

Eddy County, New Mexico

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

SUBMIT IN TRIPLICATE

Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

Name of Operator

Santa Fe Energy Operating Partners, L.P.

Address and Telephone No.

550 W. Texas, Suite 1330, Midland, TX 79701 (915) 687-3551

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

(L), 1780' FSL and 530' FWL, Sec. 17, T-23S, R-31E

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

Per recommendation by the BLM for topographic reasons, we respectfully request that the proposed drilling location for the subject well be changed to:

(L), 1780' FSL and 530' FWL, Sec. 17, T-23S, R-31E

Original application to drill was submitted on November 19, 1992.

RECEIVED
JAN 29 10 54 AM '93
CARTER

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

Signed

Henry McCullough

Title Sr. Production Clerk

Date January 28, 1993

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title

Date

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.

*See instruction on Reverse Side

DISTRICT I
P. O. Box 1980
Hobbs, NM 88240

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

DISTRICT II
P. O. Drawer DD
Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd
Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT
All distances must be from the outer boundaries of the section.

Operator SANTA FE ENERGY OPER. PARTNERS, L.P.			Lease PURE GOLD 'C-17'		Well No. 14
Unit Letter L	Section 17	Township 23 SOUTH	Range 31 EAST, N.M.P.M.	County EDDY	
Actual Footage Location of Well 1780 feet from the SOUTH line and 530 feet from the WEST line					
Ground Level Elev. 3313'	Producing Formation Delaware		Pool Sand Dunes, West (Delaware)		40 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 interest of all the owners been consolidated by communitization, unitization, forced-pooling, etc.?
☐ Yes ☐ No If answer is "yes", type of consolidation _____
If the answer is "no", list the owners and tract descriptions which have actually been consolidated. (Use the 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 interest, has been approved by the division.

OPERATOR CERTIFICATION

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

Signature *Darrell Roberts*
Printed Name **Darrell Roberts**
Position **Sr. Drilling Engineer**
Company **Santa Fe Energy Operating Partners, L.P.**
Date **January 28, 1993**

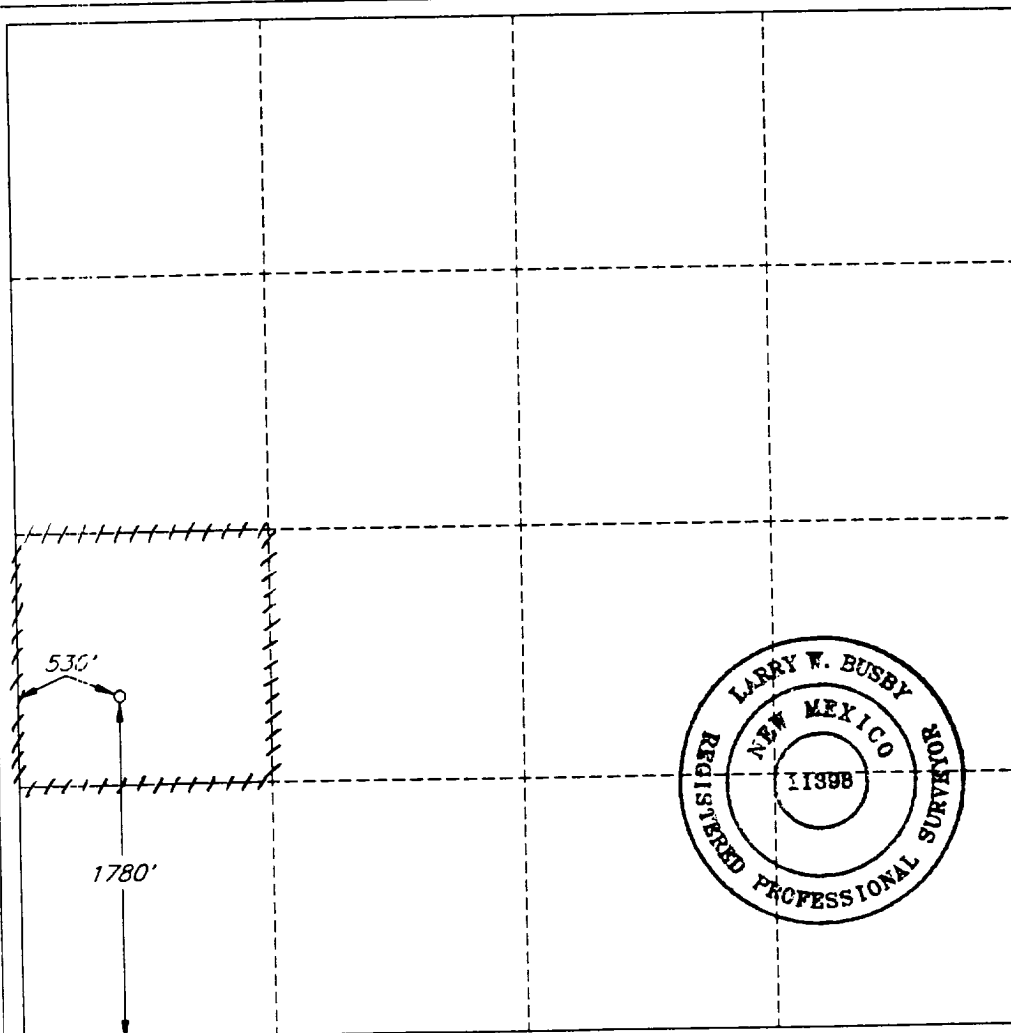
SURVEYOR CERTIFICATION

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 knowledge and belief.

Date Surveyed
JANUARY 21, 1993

Signature and Seal of
Professional Surveyor

Larry W. Busby
Certificate No.
LARRY W. BUSBY R.P.S. #11398
JOB NO. 94022 V.H.B.



DRILLING PROGRAM
SANTA FE ENERGY OPERATING PARTNERS, L.P.
Pure Gold C-17 Federal No. 14

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 Canyon	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 Canyon @ 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:**

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

Ramsey Sand	4170'-4300'
Lower Brushy Canyon	7790'-7900'

DRILLING PROGRAM

Pure Gold C-17 Federal No. 14

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Logging:

Dual Laterolog w/MSFL and Gamma Ray 4100'-8200'

Compensated Neutron/Litho-Density/Gamma Ray 4100'-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 June 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
Pure Gold C-17 Federal No. 14

1. Drill a 17 1/2" hole to approximately 600'.
2. Run 13 3/8" 48.0 ppf H-40 ST&C casing. Cement with 600 sx Class "C" cement containing 2% CaCl₂. 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% CaCl₂. 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.
Pure Gold C-17 Federal No. 14
Section 17, T-23S, R-31E
Eddy County, New Mexico

DDR:PGC1714

PROPOSED 3-M BOPE AND CHOKE ARRANGEMENT

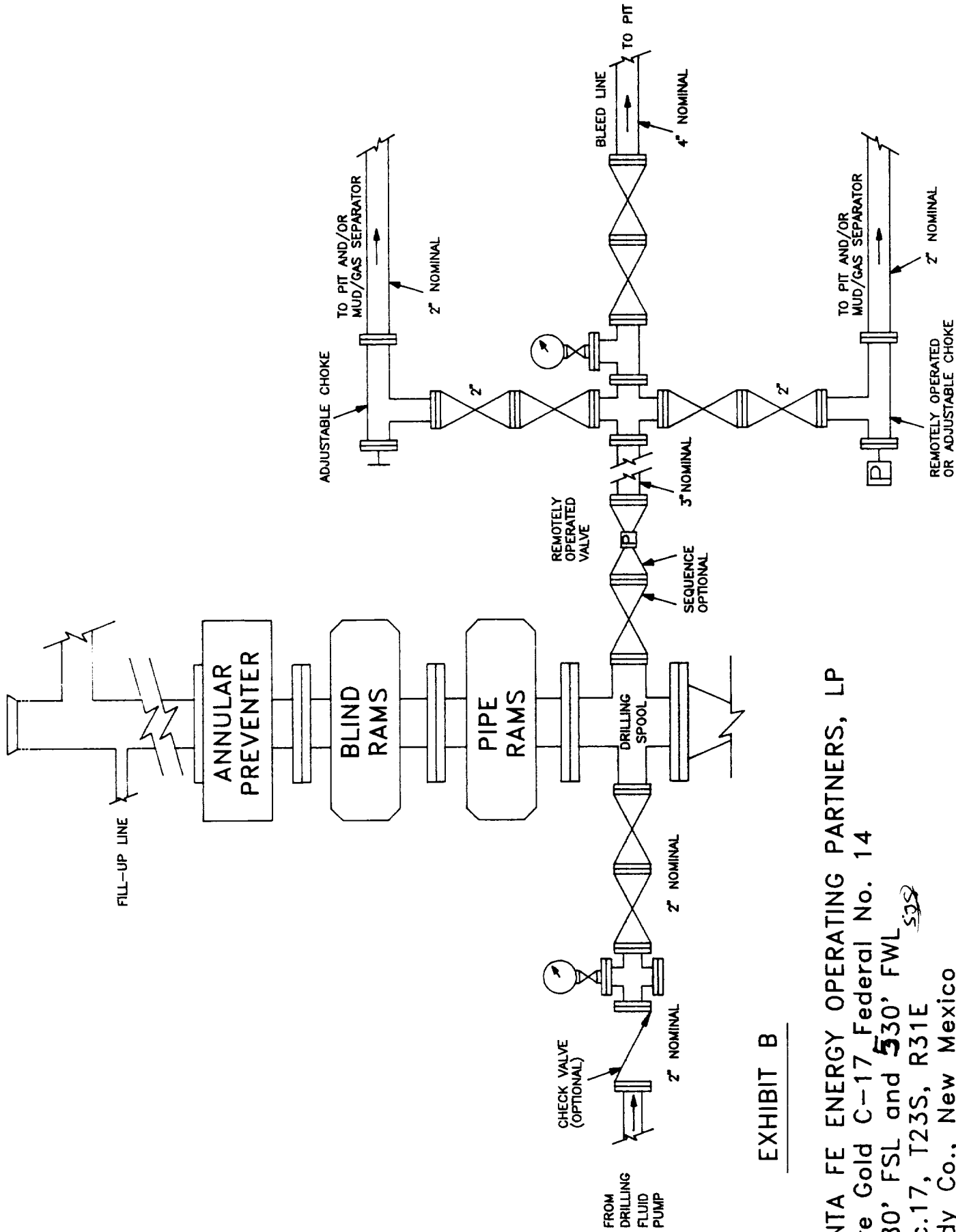


EXHIBIT B

SANTA FE ENERGY OPERATING PARTNERS, LP
 Pure Gold C-17 Federal No. 14
 1780' FSL and 530' FWL
 Sec.17, T23S, R31E
 Eddy Co., New Mexico

PROPOSED DRILLING FLUID PROGRAM

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 and Vis-40.

600-4130'

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.

4130-8200'

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 C
Santa Fe Energy Operating Partners, L.P.
Pure Gold C-17 Federal No. 14
Section 17, T-23S, R-31E
Eddy County, New Mexico

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', 550,000 lb rated static hook load with 10 line Wagner 15' high substructure
TRAVELLING EQUIPMENT	Gardner-Denver, 300 ton, 5 sheave w/ BJ 250 ton hook. Brewster 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', 1-Settling Pit 6X7X38', 1-Suction Pit 6X7X34' w/ 5 mud agitators. Two centrifugal mud mixing pumps and a Double Screen Shale Shaker.
LIGHT PLANT	Two CAT 3306 diesel electric sets 180 KW prime power.
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.

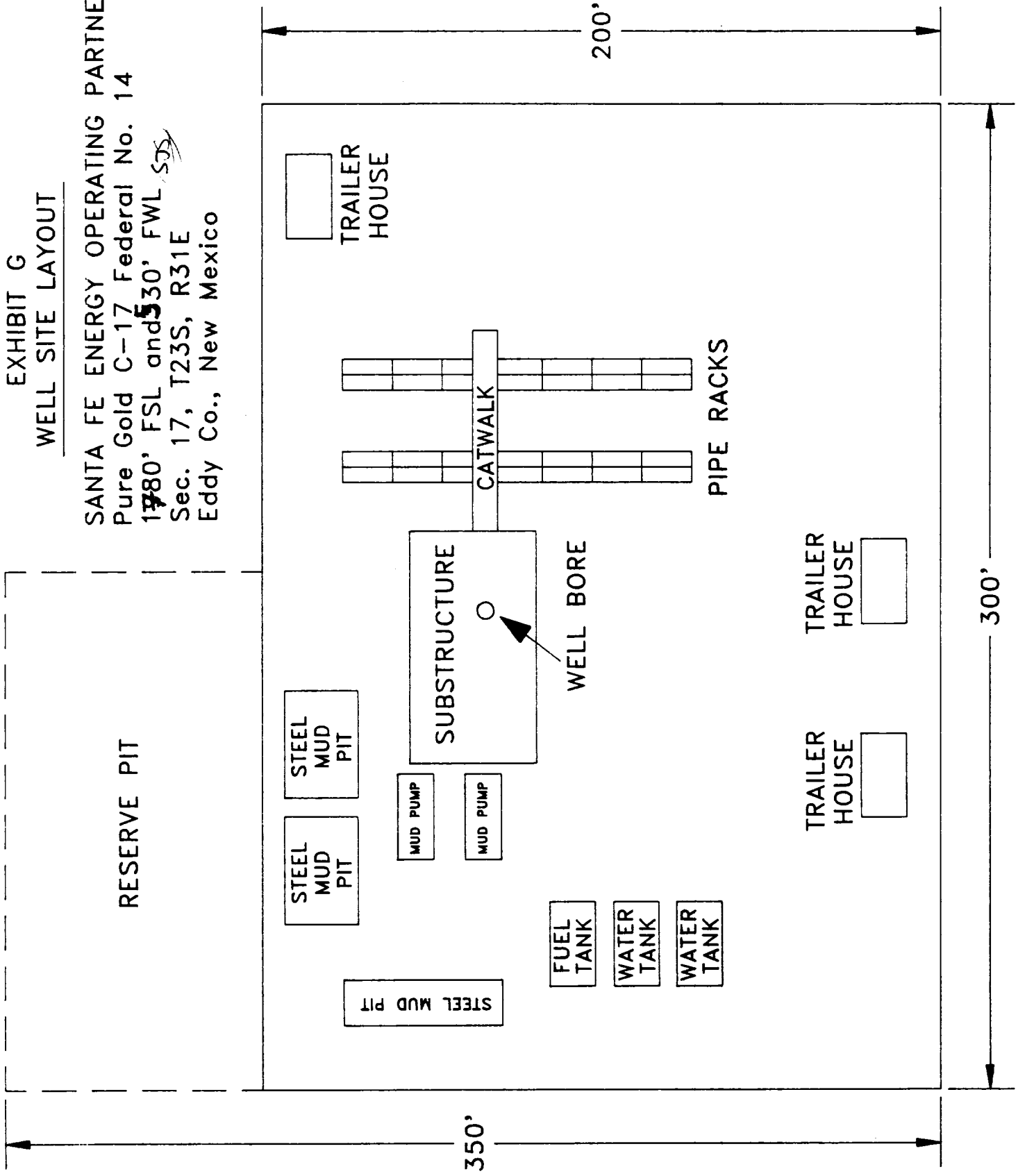
Exhibit D
Santa Fe Energy Operating Partners, L.P.
Pure Gold C-17 Federal No. 14
Section 17, T-23S, R-31E
Eddy County, New Mexico

DDR:PGC1714

SANTA FE ENERGY OPERATING PARTNERS, LP
Pure Gold C-17 Federal No. 14
1980' FSL and 330' FWL
Sec 17, T23S,R31E
Eddy Co., New Mexico

EXHIBIT G
WELL SITE LAYOUT

SANTA FE ENERGY OPERATING PARTNERS, LP
Pure Gold C-17 Federal No. 14
1780' FSL and 530' FWL ^{SDS}
Sec. 17, T23S, R31E
Eddy Co., New Mexico



MULTI-POINT SURFACE USE AND OPERATIONS PLAN
SANTA FE ENERGY OPERATING PARTNERS,L.P.
Pure Gold C-17 Federal No. 14
1980' FSL & 330' FWL
Section 17, 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 intersection of State Highway 128 and the Lea/Eddy County line, go northwest 6.5 miles on State Highway 128 to a point 330' from location.

2. PLANNED ACCESS ROAD.

A 14' wide access road will extend from State Highway 128 approximately 16' west of 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 are two existing producing gas wells 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

Pure Gold C-17 Federal No. 14

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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 of 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 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

Pure Gold C-17 Federal No. 14

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- B. The ground surface of the location is located among several sand dunes with vegetation growing on them. The location will be 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 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 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.
- 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
Pure Gold C-17 Federal No. 14
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 19 day of November, 1992. Darrell Roberts
Darrell Roberts, Senior Drilling Engineer

/tjm
PGC1714