3160(067) NM-45235

MAR 25 1993

CERTIFIED--RETURN RECEIPT REQUESTED P 135 580 030

Santa Fe Energy Operation Partners, L. P. Attention: Darrell Roberts 550 W. Texas, Suite 1330 Midland, TX 79701

Pure Gold C-17 Federal Well No. 10 RE: NM-45235 660' FNL & 1980' FEL, Sec. 17, T23S, R31E Eddy County, New Mexico

Dear Mr. Roberts:

On December 10, 1992, Santa Fe Energy Operating Partners, L. P. filed an Application for Permit to Drill (APD) at the above referenced location. I am pleased to approve your APD at the present location. Your copy of the APD, with attached stipulations, is enclosed.

Through our analysis of the APD, we have determined that the well site is located a sufficient distance from the ore zones that potash resources should not be impacted.

If you need any additional information, please contact Tony Herrell in the Carlsbad Resource Area at (505) 887-6544.

Sincerely,

1s/ Monte G. Jordan

Larry L. Woodard State Director

1 Enclosure

NM (910, L. Woodard)

NM (920, R. Smith) NM (060, A. Lopez)

NM (060, L. Cone) NM (067, T. Herrell)

3-25 Th

(1012011)		ED STATES (Other instructions on reverse side)			Form approved. Budget Buresu No. 1004—0136 Expires August 31, 1985 5. LEASE DESIGNATION AND SERIAL NO.			
		LAND MANAG				NM-45235	AND SERIAL RO.	
APPLICATION	FOR PERMIT		EEPEN, O	R PLUG B	ACK	6. IF INDIAM, ALLOTTER	OR TRIBS NAME	
DRII	LL DEC	DEEPEN TO 1992	1	PLUG BAC	* 🗆	7. UNIT ACREEMENT B	AMB	
OFL WELL WE	TE TO CARTE	1992	SINGLE C	MULTIPI		8. FARM OR LEARS WAN	-	
NAME OF OPERATOR	Fe Energy Opera	,	ere I P	1		Pure Gold C-	-17 Federal	
					1	10		
	Texas, Soife					10. FIELD AND POOL, O	R WILDCAT	
LOCATION OF WELL (Be	port location ciencily and	in accordance wit	h any State requ	iirements.*)		Sand Dunes, We		
(B), 66	0' FNL and 1980			S, R-31E	4	11. SEC., T., R., M., OR I AND SURVEY OR AR	LE. Ba	
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DISTANCE IN MILES A	ND DIRECTION FROM NEA	ERST TOWN OR POS	r offica.			12. COUNTY OR PARISH	18. GTATE	
18 miles	East of Loving,	New Mexico)			Eddy	NM	
DISTANCE FROM PROPO LOCATION TO NEAREST PROPERTY OR LEASE L	•	6601	16. NO. OF ACE			F ACRES ASSIGNED HIS WELL 40		
(Also to nearest drig		660'	19. PROPOSED		20. ROTA	BY OR CABLE TOOLS		
DISTANCE FROM PROPOSED LOCATION 19. PI TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 1519			8200		Rotary			
	ther DF, RT, GR, etc.)		<u> </u>			22. APPROX. DATE WO	ME WILL START	
3326' GR		-				April 16,		
		PROPOSED CASI	NG AND CEME	ITING PROGRA	M Secre	tary's Potash	R-111-P Pata	
SIZE OF ROLE	SIZE OF CABING	WEIGHT PER P	00T 8E	TING DEPTH		QUANTITY OF CEMBI	17	
			•					
17-1/2"	13-3/8"	48.0		600'		k to circulate		
	13-3/8" 8-5/8" 5-1/2"	48.0 32.0 15.50)	600' 4130' 8200'	2000 s	k to <u>circulate</u> sx to <u>circulate</u> e back to 4130		
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APPROVAL SOBJECTPPET AL. IF ANY: GENERAL REQUIREMENTS AND

SPECIAL STIPULATIONS

ATTACHED, and to NMOCD'S R-111- p'See Instructions On Reverse Side

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

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

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

DISTRICT III 1000 Rio Brazos Rd Aztec, NM 87410

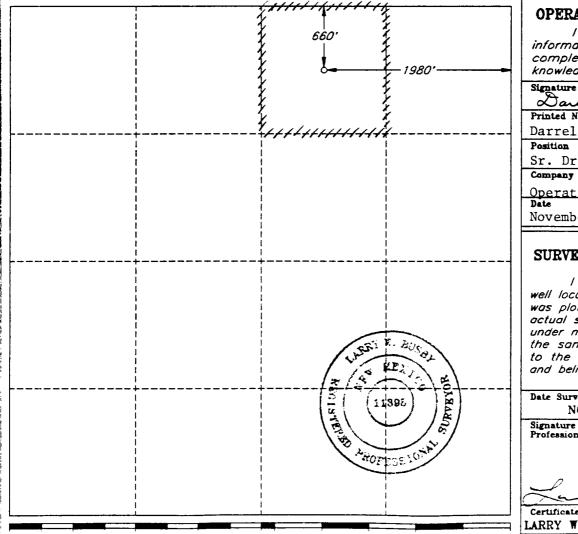
WELL LOCATION AND ACREAGE DEDICATION PLAT

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

Operator				Lease					W	ell No.	
SANTA FE	ENERGY OPE	R. PARTI	VERS, L.P.		PURE	GOLD	*C-17*	Fed.		10	
Unit Letter	Section	Township		Range			Ī	County	· 		
В	17	2	3 SOUTH		31 EAST,	N.M.P.M.			EDDY		
Actual Footage L	ocation of Well										
660	feet from the	NORTH	line an	đ	1980	1ee	t from the	EA	.ST	line	
Ground Level Ele				Pool					T		
3326'	Delawa:	re		Sand	Dunes, V	West (D	elaware	<u> </u>		40	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).

unitization, forced—pooling, or otherwise) or until a non—standard unit, eliminating such interest, has been approved by the division.



2000

1500

1000

500

990 1320 1650 1980 2310 2640

660

OPERATOR CERTIFICATION

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

Printed Name
Darrell Roberts
Position
Sr. Drilling Engineer
Company Santa Fe Energy
Operating Partners, L.P.
Date
November 19, 1992

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

NOVEMBER 3, 1992

Signature and Seal of
Professional Surveyor

Certificate No.

LARRY W. BUSBY R.P.S. #11398

JOB NO. 92822 V.H.B.

DRILLING PROGRAM

SANTA FE ENERGY OPERATING PARTNERS, L.P.

Pure Gold C-17 Federal No. 10

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. 10 Page 2

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:

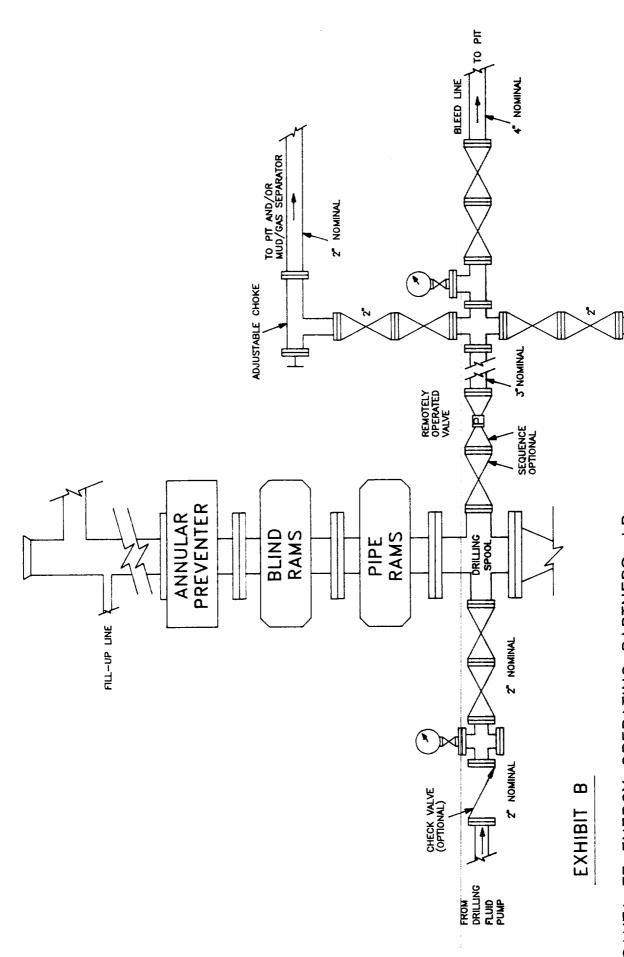
Road and location work will not begin until approval has been received from the BLM. The anticipated spud date is April 16, 1993. Once spudded, the drilling operation should be completed in approximately 16 days. If the well is productive, an additional 30 days will be required for completion and testing before permanent facilities are installed.

SANTA FE ENERGY OPERATING PARTNERS,L.P. OPERATIONS PLAN Pure Gold C-17 Federal No. 10

- 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. 10
Section 17, T-23S, R-31E
Eddy County, New Mexico

DDR:PGC1710



SANTA FE ENERGY OPERATING PARTNERS, LP Pure Gold C-17 Federal No. 10 660' FNL and 1980' FEL

TO PIT AND/OR MUD/GAS SEPARATOR

Z" NOMINAL

REMOTELY OPERATED OR ADJUSTABLE CHOKE

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. 10
Section 17, T-23S, R-31E
Eddy County, New Mexico

DDR:PGC1710

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 Gardner-Denver, 300 ton, 5 sheave w/ BJ 250 ton hook.

Brewster Model 7 SX 300 ton swivel. **EQUIPMENT**

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 Two CAT 3306 diesel electric sets 180 KW prime power.

PLANT

BOP 13 5/8" 5000 psi WP double ram and 13 5/8" 5000 psi WP Shaffer Annular **EQUIP**

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. 10

Section 17, T-23S, R-31E Eddy County, New Mexico

DDR:PGC1710

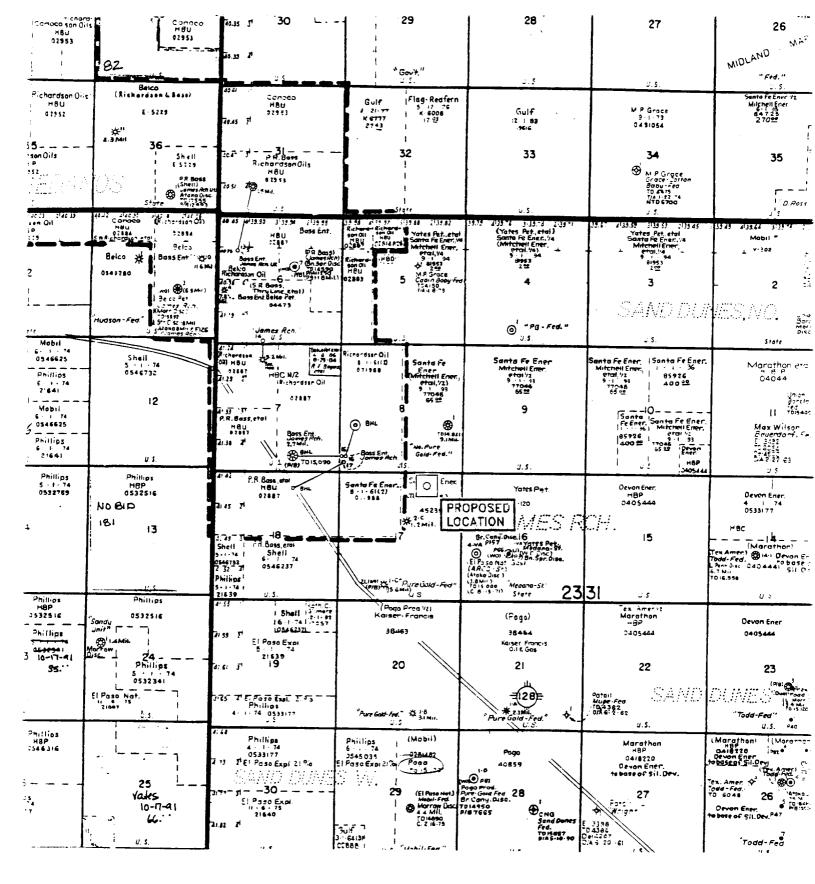


EXHIBIT F

SANTA FE ENERGY OPERATING PARTNERS, LP Pure Gold C-17 Federal No. 10 660' FNL and 1980' FEL Sec. 17, T23S, R31E Eddy Co., New Mexico

LOCA JN & ELEVATION VERIFIC. TION MAP

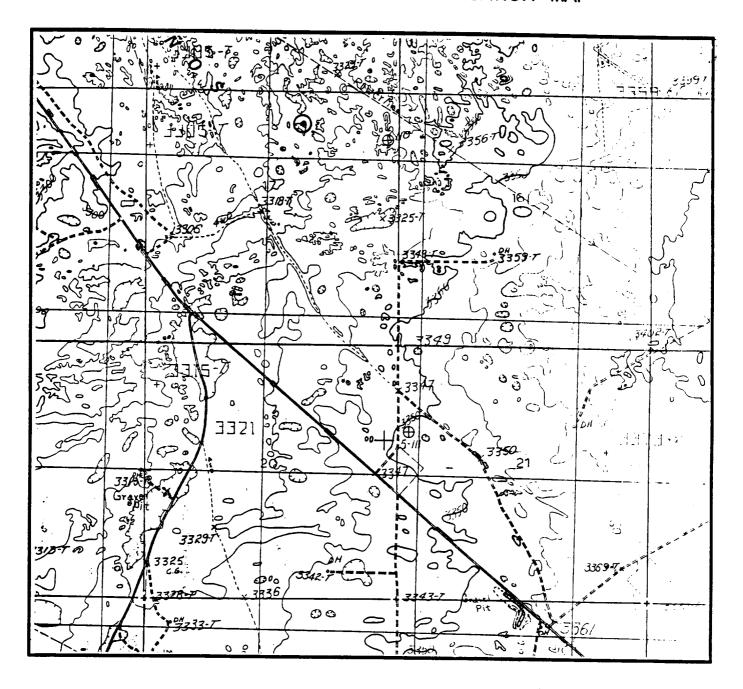
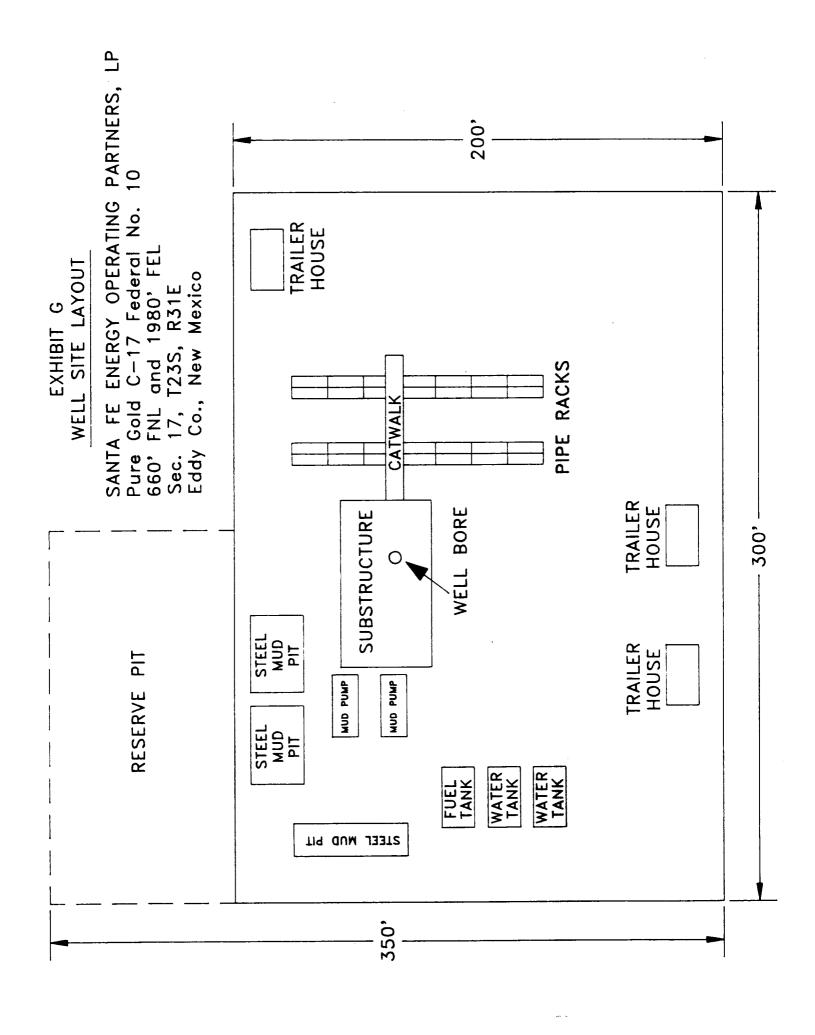


EXHIBIT E

SANTA FE ENERGY OPERATING PARTNERS, LP Pure Gold C-17 Federal No. 10 660' FNL and 1980' FEL 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. 10 660' FNL & 1980' FEL 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 6.2 miles on State Highway 128.
- 2. Turn left (Northerly) onto lease road and continue 0.8 miles to the location.

2. PLANNED ACCESS ROAD.

A 14' wide access road will extend from an existing lease road 10' east 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. 10 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 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. 10 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 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. 10 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, 199	2. Davel	Polento
		,	Darrell Roberts	, Senior Drilling Engineer

/tjm PGC1710