1 47 - 2 1993

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C. L. D.

3160 (067) NM-77046

3 1993 MAY

CERTIFIED--RETURN RECEIPT REQUESTED P 135 585 854

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

North Pure Gold 9 Federal Well No. 3 RE: NM-77046 1886' FSL & 886' FWL, Sec. 9, T23S, R31E Eddy County, New Mexico

Dear Mr. Roberts:

On February 16, 1993, 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,

151 Kathy Eaton

Monte &. Jordan
Acting State Director

1 Enclosure

bcc:

NM (910, M. Jordan) NM (920, R. Smith) NM (060, A. Lopez) NM (060, L. Cone) NM (067, T. Herrell)

November 1983) D	DEPARTMENT	ED STATES		etic son de)	Form approved. Budget Bureau Expires August	No. 1004-0136 31, 1985	
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Santa 3. ADDRESS OF OPERATOR		ting Partners	, L.P. '	10-1	9. WELL NO.		
	. Texas, Suite 1		Texas 79701	-	3 10. FIELD AND POOL, G	R WILDCAT	
4. LOCATION OF WELL (E	Report location clearly and			* January &	Undesignated Delaware		
At surface (L),	1886' FSL and 886	5' FWL, Sec. 9	9, T-23S, R-31E	_	11. SEC., T., R., M., OR BLK.		
At proposed prod. zo			w. L		Sec. 9, T-23S, R-31E		
14. DISTANCE IN MILES	AND DIRECTION FROM NEAR	EST TOWN OR POST OF	FICE*		12. COUNTY OR PARISH 13. STATE		
18 miles	s East of Loving,	New Mexico			Eddy	NM	
			NO. OF ACRES IN LEASE 1200	TO THIS WELL			
15. DISTANCE FROM PRO	DPOSED LOCATION®		19. PROPOSED DEPTH 20. ROT.		ABY OR CABLE TOOLS		
OR APPLIED FOR, ON T	HIS LEASE, FT.	1032'	8200'	R	Rotary		
	hether DF, RT, GR, etc.)				22. APPROX. DATE W		
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Exhibit D - Auxiliary Equipment Surface Use and Operations Plan							
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SIGNED _ Da	well Roberts	TITLE	Sr. Drilling En	gineer		193	
(This space for F	ederai or State office use)			 	-		
PERMIT NO.		- 	APPROVAL DATE				
					<i>:</i>	,	
APPROVED BY SONDITIONS OF APPL ACCIONAL SUBJ GENERAL REQUI SPECIAL STIPILL	REMENTS AND	TITLE			DATE		

SPECIAL STIPULATIONS

*See Instructions 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

Well No.

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

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

OIL CONSERVATION DIVISION P. O. Box 2088

Santa Fe, New Mexico 87504-2088

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

Operator

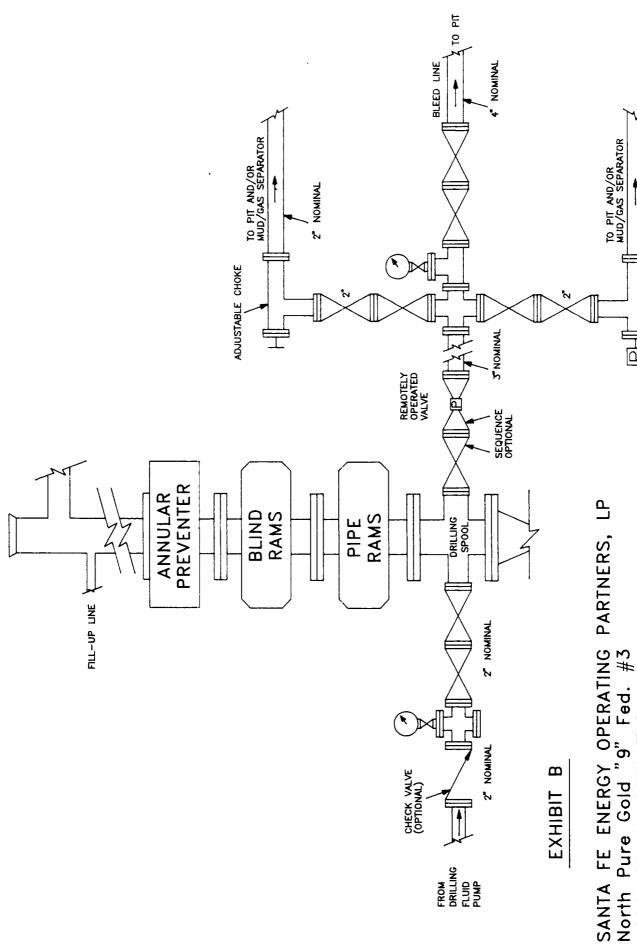
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WELL LOCATION AND ACREAGE DEDICATION PLAT

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

Lease

SANTA	FE ENERG	Y RESOURCE	S, INC.	N	. PURE	GDLD '9'	FEDE	RAL	3	
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round Level Ele	v. Producin	g Formation	1111C 811	Pool						
3343'	De	laware		Unde	signate	d Delaware	<u> </u>		40	Acres
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SANIA FE ENERGY OPERAIING PARINERS, L North Pure Gold "9" Fed. #3 1886' FSL & 886' FWL Sec. 9, T23S,R31E

EDDY COUNTY, NEW MEXICO

Z NOMINAL

REMOTELY OPERATED OR ADJUSTABLE CHOKE

DRILLING PROGRAM

SANTA FE ENERGY OPERATING PARTNERS, L.P.

North Pure Gold 9 Federal No. 3

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:

None

DRILLING PROGRAM

North Pure Gold 9 Federal No. 3 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 March 31, 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 9 Federal No. 3

- 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.
North Pure Gold 9 Federal No. 3
Section 9, T-23S, R-31E
Eddy County, New Mexico

TJM:NPG93

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.

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.
North Pure Gold 9 Federal No. 3
Section 9, T-23S, R-31E
Eddy County, New Mexico

TJM:NPG93

AUXILIARY EQUIPMENT

DRAWWORKS BDW 650M 650 HP, with Parmac Hydromatic brake

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

Ideco 23", 300 ton capacity **ROTARY**

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.

EOUIPMENT Brewster Model 7 SX 300 ton swivel.

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

driven.

1-Shale Pit 6X7X35',1-Settling Pit 6X7X38', 1-Suction Pit 6X7X34' w/ 5 mud PIT SYSTEM

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 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.

North Pure Gold 9 Federal No. 3

Section 9, T-23S, R-31E Eddy County, New Mexico

DDR/tim NPG93

LOCATION & ELEVATION VERIFICATION MAP

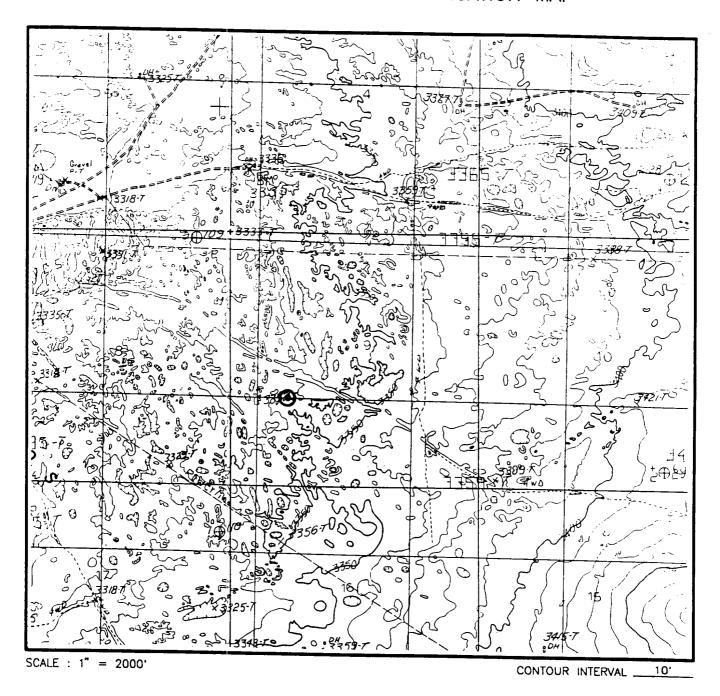


EXHIBIT E

SANTA FE ENERGY OPERATING PARTNERS, LP North Pure Gold "9" Fed. #3 1886' FSL & 886' FWL Sec. 9, T23S,R31E EDDY COUNTY, NEW MEXICO

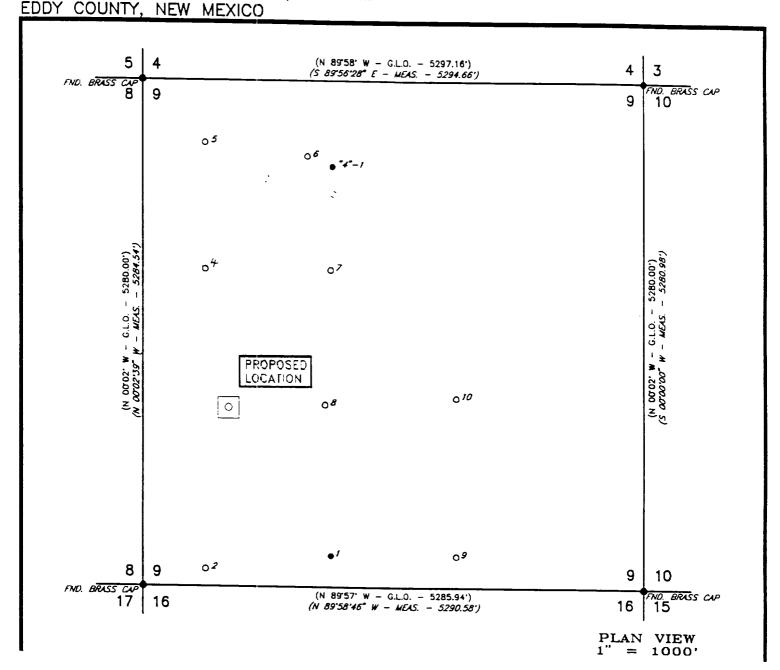
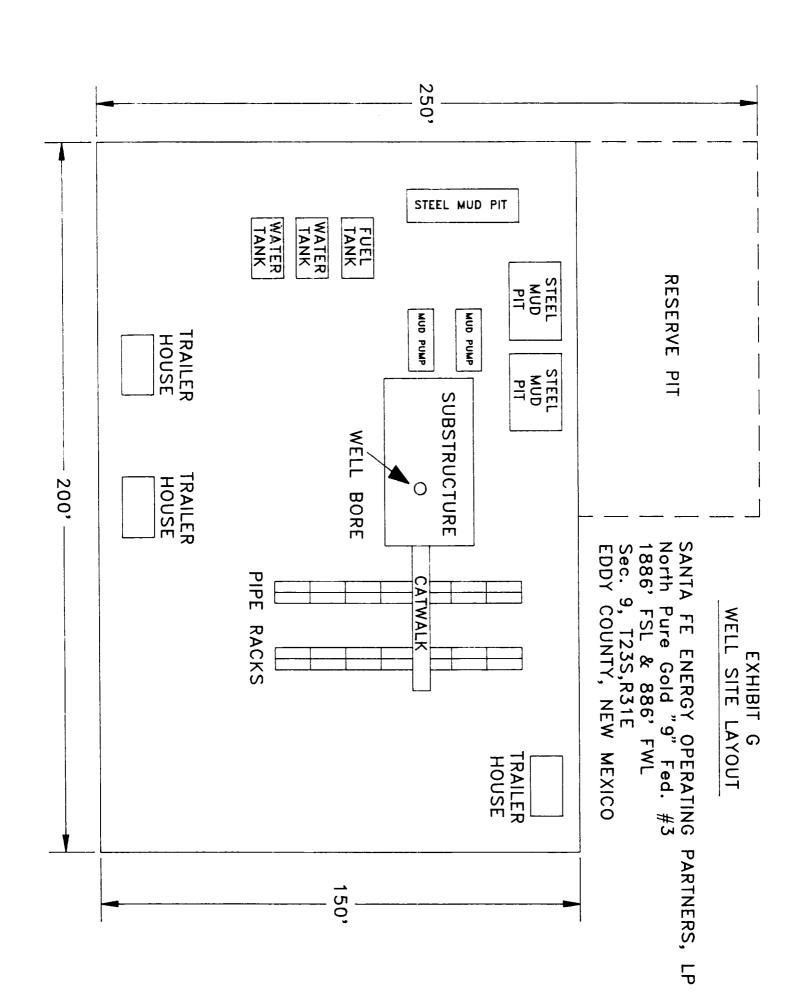


EXHIBIT	F
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SANTA FE ENERGY OPERATING PARTNERS, LP North Pure Gold "9" Fed. #3 1886' FSL & 886' FWL Sec. 9, T23S,R31E EDDY COUNTY. NEW MEXICO



MULTI-POINT SURFACE USE AND OPERATIONS PLAN SANTA FE ENERGY OPERATING PARTNERS, L.P.

North Pure Gold 9 Federal No. 3 1886' FSL & 886' FWL Section 9, 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 Lea/Eddy County line on State Highway 128, go West 6.2 miles on State Highway 128. Turn northeasterly (at the orange cattleguard) onto existing lease road and travel northeasterly 1.3 miles then travel southeasterly 0.2 miles to a point 2000' south of the location.

2. PLANNED ACCESS ROAD

A 14' wide access road will extend from the existing lease road approximately 813' northeast 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 oil well (North Pure Gold 9 Fed. No. 1) and one producing gas well (P. G. 4 Fed. No. 1) with a bottom hole location in Section 4, 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 9 Federal No. 3

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 9 Federal No. 3

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 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

North Pure Gold 9 Federal No. 3 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.

DDR/tjm NPG93