Form 3160-3 (July 1992)

SUBMIT II (Other Instructions on

FORM APPROVED 0MB NO. 1004-0136

Expires: February 28, 1995

				KIOK	3266	5. LEASE DESIGNATION AND SERIAL NO.
	BUREAU OF	LAND MANAG	SEME	TV		NM-92781
APPLI	CATION FOR P	ERMIT TO I	DRIL	L OR DEEPEN		6. IF INDIAN, ALLOTTED OR TRIBE NAME
1a. TYPE OF WORK						7, UNIT AGREEMENT NAME
b. TYPE OF WELL		DEEPEN [				Gaucho
OIL G	AS VELL X OTHER			INGLE X MULTIPL	-E	8. FARM OR LEASE NAME, WELL NO.
2. NAME OF OPERATOR		<del></del>		20112		Gaucho Unit #7
	rgy Resources, Inc	c.				9. API WELL NO
3. ADDRESS AND TELEPHONE NO.	, Suite 1330; Mid	land Massa 1	70701	(015) 600 637		30-025-34440
	(Report location clearly a				<del></del>	1U. FIELD AND POOL, OR WILDCAT
At surface	L & 1980' FWL				<u> </u>	North Bell Lake - Morrow 11. SEC., T., R., OR BLK.
At proposed prod. zon				9510 NO. 2030	5	AND SURVEY OR AREA
				YNO. 1892.8		Sec. 17, T-22-S, R-34-E
14. DISTANCE IN MILES AT 20 miles west	ND DIRECTION FROM NEAR of Jal, New Mex	E21 IOWN		6-24-98		12. COUNTY OR PARISH   13. STATE Lea New Mexico
15. DISTANCE FROM PROPO LOCATION TO NEARES	SED.	API	-		40 0	F ACRES ASSIGNED
PROPERTY OR LEASE (Also to nearest dri	LINE. FT.	165				HIS WELL 320
18. DISTANCE FROM PORPO TO NEAREST WELL, DRILL OR APPLIED FOR, ON THI	OSED LOCATION <sup>®</sup> ING, COMPLETED. S LEASE, FT.	NA	19. PR	ROPOSED DEPTH 13600'	20. ROTA	RY OR CABLE TOOLS Rotary
21. ELEVATIONS (Show w 3487' GR	hether DF, RT, GR, etc.)					22. APPROX. DATE WORK WILL START June 25, 1998
23.		PROPOSED CASI	NG ANI	D CEMENTING PROGRAM	1	
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FO	тоот	SETTING DEPTH		QUANTITY OF CEMENT
26"	H-40 20"	94.0		800'	1025	sx to circulate
12 1/4"	K-55 9 5/8"	40.0		5000'	1550	sx to circulate
8 3/4"	S-95 & P-110 7 S-95 4 1/2"	26.0	_	13600'		sx to TOC @ 6000' sx (circ to liner top)
productive plugged an	e, a 4 1/2" liner and abandoned in a as per Onshore Oil	will be run manner consi	to TI istent	o test the Morrow  O. If non-product  with Federal Reg  O. 1 are outlined	ive, ti gulation	he well will be
•	A - Operations H	lan		Exhibit	t E - T	opo Map at Location
	B - BOP and Chok			Exhibit	t F - M	ap Showing Existing Wells
	: B(A) - BOP and C : C - Drilling Flu		ic 10			- Plat of Location
	D - Auxiliary Eq	_				ell Site Layout nd Operations Plan
restrictio described	ns concerning ope above.	rations cond	lucted	applicable terms, i on the leased la	condit and or p	tions, stipulations and portion thereof, as
IN ABOVE SPACE DESCRIBE deepen directionally, give pertin	age: Blanket Bor PROPOSED PROGRAM: If j nent data on subsurface location	proposal is to deepen.	dive dat	Bond File No.: It is an arrangement of the second second and the second	MT 0750 and propose iter program,	d new productive zone. If proposal is to drill d
signed meu 3.	"The stins	en titi	E Age	nt for Santa Fe E	nergy	DATE 5-21.98
(This space for Feder	al or State office use)				<del></del>	
PERMIT NO				APPROVAL DATE		
	ot warrant or certify that the app				ase which wo	uld entitle the applicant to conduct operations the
(ORIG.	SGD.)JAMES G. PETT	ENGILL 12	ا بدید	Jentert Fund	1. E Ke	12 ragic
APPROVED BY		TITLE	15.	Leice Prime	Ž	DATE TO TOO D

05:8 A SS YM 8:10

DISTRICT I P: O. Box 1980 Hobbs, NM 88241-1980

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

Form C-102 Revised 02-10-94

Instructions on back

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

DISTRICT II P. O. Drawer DD Artesia, NM 88211-0719

DISTRICT III 1000 Rio Brozos Rd. Aztec, NM 87410

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

AMENDED REPORT

DISTRICT IV
P. O. Box 2088
Sonto Fe, NM 87507-2088 WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number   Pool Code   7/01/1					3 Poo	North Bell Lake (Morrow)							
30-025-34440 7/920 1 Property Code 5 Property Name						North Berl Lake (Morrow)							
18928 GAUCHO UNIT								7					
OGRID No.	<u> </u>	8 Operator No	ame			·				* Elevation			
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				" SUF	RFACE	LOCATION							
UL or lot no.	Section	Township	Rang	e	Lot Ida	Feet from the	North/Sout	h line	Feet from the	East/West line	County		
K	17	22 SOUTH	34 EAST,	N.M.P.M.		1650'	SOUTH	[	1980'	WEST	LEA		
		"BOTTO	M HOLE	LOCATI	ON IF	DIFFERE	NT FROM	st.	JRFACE				
UL or lot no.	Section	Township	Rang	e	Lot Ida	Feet from the	North/Sout	n line	Feet from the	East/West line	County		
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### DRILLING PROGRAM

### SANTA FE ENERGY RESOURCES, INC.

### Gaucho Unit No. 7

In conjunction with Form 3160-3, Application 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: Alluvium
- 2. Estimated Tops of Significant Geologic Markers:

1050'
1400'
5000'
8450'
10900'
11900'
12100'
12700'
13600'

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

Water	None expected in are	ea.
Oil	Bone Spring @ 9100'	
Gas	Upper Morrow @ 13100	٠ (

- 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 4600' to TD.
- 8. Testing, Logging and Coring Program:

Drill Stem Tests: (all DST's to be justified on the basis of valid show of

oil or gas):

Bone Spring 9100'- 9200' Atoka 12200'-12250' Morrow 13100'-13150'

Logging:

Dual Laterolog W/MSFL and Gamma Ray 11850'-13600'
Compensated Neutron/Litho-Density/Gamma Ray 5000'-11850' & 11850'- 13600'

Compensated Neutron/Gamma Ray (thru csg) Surface-5000'

Coring: No conventional cores are planned.

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

Abnormally high pressured zones with a bottomhole pressure of approximately 7500 psi could possibly be encountered while drilling the Pennsylvanian interval. Sufficient barite will be on location to enable the weighting up to the estimated 11.5 ppg to control any high pressure zone encountered. Along with the above mentioned primary control, a Blow Out Preventer System as outlined in Exhibit B will be utilized should the need arise to shut the well in prior to running and cementing the drilling liner. The estimated bottom hole temperature is 170°F. 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 B.L.M. The anticipated spud date is <u>June 25, 1998</u>. Once spudded, the drilling operation should be completed in approximately 70 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. GAUCHO UNIT No. 7

### Section 17, T-22-S, R-34-E Lea County, New Mexico

- 1. Drill a 26" hole to approximately 800'.
- 2. Run 20" 94.0 ppf H-40 ST&C casing. Cement with 775 sx 35/65 POZ w 6% gel & 1/4 pps Cello-Flake followed by 250 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 twenty-four (24) hours prior to drilling out.
- 5. Drill a 12-1/4" hole to approximately 5000'.
- 6. Run 9-5/8" 40.0 ppf K-55 ST&C casing. Cement with 1150sx Cl "C" Lite containing 12 pps salt and 1/4 pps celloflake followed by 400 sx Class "C" with 2% CaCl<sub>2</sub>. 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 Double Ram and Annular BOP system with choke manifold.
- 9. Test BOP system to 3000 psi. Test casing to 1500 psi.
- 10. Drill 8-3/4" hole to the first good lime section after drilling into the Wolfcamp, which is anticipated to be at approximately ±11850'. Run logs.
- 11. Run 11850' of 7" 26.0 ppf S-95 & P-110 LT&C casing set @ 11850'. Cement with 500 sx "Light" cement followed with 300 sx Class "H". Run guide shoe on bottom and float collar two joints off bottom. Centralize bottom 1000' of casing with one centralizer on every other joint. Thread lock bottom two joints. Our plan is to bring the top of cement to ±6000'.
- 12. Nipple down BOP. Set slips. Cut off casing. Nipple up 10000 psi BOP Stack. Test to 10000 psi.
- 13. Test casing to 2500 psi.
- 14. Drill a 6-1/8" hole to ±13600. Log. Run and cement a 4-1/2" 13.5 ppf S-95 flush joint liner from 11650'-13600'. Cement with 225 sx Class "H" containing necessary additives. Lay down setting tool and RIH with a 6-1/8" bit to dress off the liner top. Perform negative test on liner top.
- 15. Clean out inside of 4-1/2" liner.
- Run production equipment and test well as necessary.

## SANTA FE ENERGY RESOURCES, INC. TIO DIT 1650' FSL & 1980' FWL Section 17, T-22-S, R-34-E Lea County, New Mexico 4- NOMINAL BLEED LINE Gaucho Unit No. 7 PROPOSED 5-M BOPE AND CHOKE ARRANGEMENT EXHIBIT B ADJUSTABLE CHOKE TO PIT AND/OR MUDIGAS SEPARATOR TO PIT AND/OR MUD/GAS SEPARATOR 2- NOMINAL 2- HOMINAL REMOTELY OPERATED OR ADJUSTABLE CHOKE SEQUENCE 3-NOMINAL REMOTELY OPERATED VALVE FLOWLINE PREVENTER ANNULAR DRILLING SPOOL BLIND RAMS PIPE RAMS FILL-UP LINE 2. NOMINAL 2. NOMINAL CHECK VALVE (OPTIONAL) FROM DRILLING FLUID PUMP

## SANTA FE ENERGY RESOURCES, INC. Section 17, T-22-S, R-34-E Lea County, New Mexico 1650' FSL & 1980' FWL Gaucho Unit No. 7 EXHIBIT B (A) TO PIT 4" NOMINAL BLEED LINE TO PIT AND/OR MUD/GAS SEPARATOR TO PIT AND/OR MUD/GAS SEPARATOR 4. NOMINAL . 4" NOMINAL REMOTELY OPERATED CHOKE PROPOSED 10-M BOPE AND CHOKE ARRANGEMENT REMOTELY OPERATED CHOKE 4-NOMINA REMOTELY OPERATED VALVE SEQUENCE OPTIONAL **PREVENTER** ANNULAR BLIND RAMS RAMS RAMS PIPE PIPE ROTATING HEAD 3" NOMINAL 3. NOMINAL CHECK VALVE FROM DRILLING PLUID PUMP

# EXHIBIT C DRILLING FLUID PROGRAM SANTA FE ENERGY RESOURCES, INC. GAUCHO UNIT NO. 7 Section 17, T-22-S,R-34-E Lea County, New Mexico

### 0 - 800

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.

### 800 - 5000'

Drill out with fresh water circulating the reserve pit. Utilize ground paper mixed in prehydrated fresh gel to sweep the hole. MW-8.5 - 8.8 ppg and Vis-28.

### 5000 - 11850'

Drill out with fresh water 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. Keep mud weight as low as possible. MW-8.4/8.6 ppg and Vis-28.

### 11850'-13600'

Drill out with brine containing MF-55, circulating the steel pits. At 12000' mud up existing brine with XCD polymer/Drispac Plus mud system to an initial mud weight of 11.0 ppg with a 38-40 VIS. Add barite as required to control formation pressures and shale.

# EXHIBIT D AUXILIARY EQUIPMENT Santa Fe Resources, Inc. GAUCHO UNIT NO. 7 Section 17, T-22-S, R-34-E Lea County, New Mexico

DRAWWORKS

National 80-B

ENGINES

National 3 Section Compound w/3 Caterpillar D379 diesel

engines

ROTARY

27-1/2" National C-275

MAST/SUB

Derrick Service International 142' jackknife. 25' high

substructure

TRAVELLING EQUIPMENT

National 545-G 350 ton hook and block. National P-400 ton

swivel

**PUMPS** 

Two National 8-P-80,6-1/4" x 8-1/2" 800 HP triplex pumps

charged by 6"  $\times$  8" centrifugal pump

PIT SYSTEM

Three steel mud pits with lightning mixers. Two 6"  $\times$  8"

centrifugal pumps each driven by a 75 HP electric motor

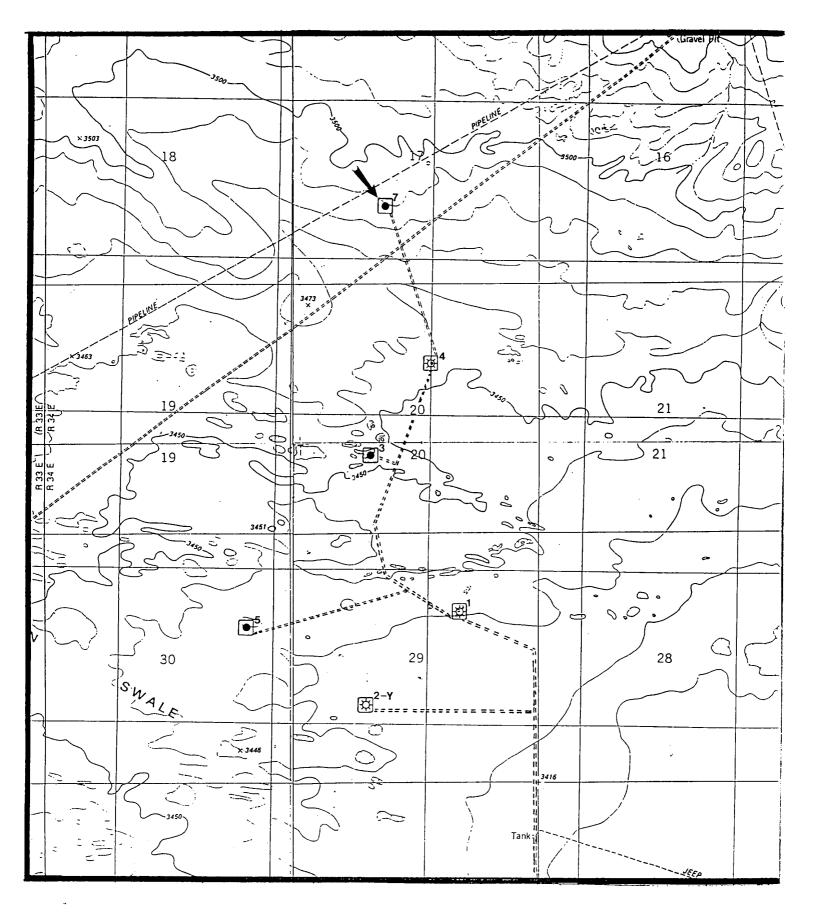
LIGHT PLANT Two 320 KW AC generators each powered by a turbocharged

diesel engine

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.



TOPO MAP OF LOCATION AREA

SANTA FE ENERGY RESOURCES, INC.
GAUCHO UNIT NO. 7
1650' FSL & 1980' FWL
Section 17, T-22-S,R-34-E
Lea County, New Mexico



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GAUCHO UNIT NO. 7 1650' FSL & 1980' FWL Section 17, T-22-S,R-34-E Lea County, New Mexico

EXHIBIT F(A) PLAT OF LOCAT. .(

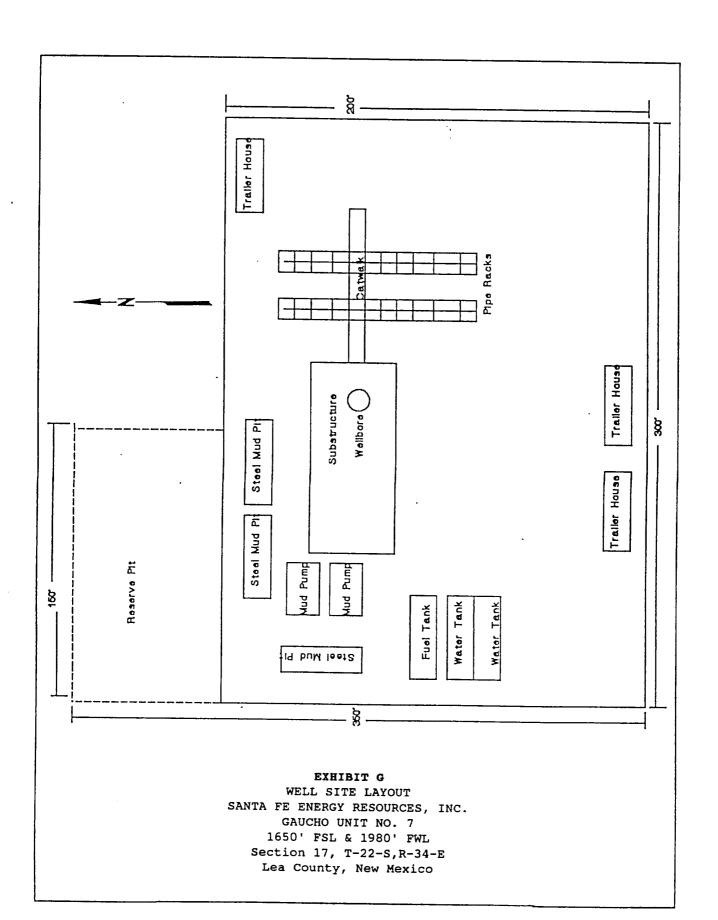
SANTA FE ENERGY RESOURCES, INC.

GAUCHO UNIT NO. 7

1650' FSL & 1980' FWL

Section 17, T-22-S,R-34-E Lea County, New Mexico

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18	17	17	16
	SANTA FE ENERGY R GAUCHO UN GROUND ELEVAT	ESOURCES, INC.	
2641.2"	GROUND ELEVAT	ION. 3407	
S 00'03' W, 2641.2"	PROPOSED LEASE ROAD		



# SANTA FE ENERGY RESOURCES, INC. MULTI-POINT SURFACE USE AND OPERATIONS PLAN GAUCHO UNIT NO 7 Section 17, T-22-S,R-34-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 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 7.5 minute topographic map which shows the location of the proposed wellsite and roads in the vicinity. The proposed location is situated approximately 20 miles West of Jal, New Mexico.

### DIRECTIONS

1. From the intersection of State Hwy 128 & CR-21, go North and back East 9.6 miles, turn North 2.8 miles to the Gaucho Unit No. 1 location, continue northwest 0.3 miles, and turn right (north) 1.5 miles to the proposed location.

### 2. PLANNED ACCESS ROAD.

- A. Build  $\pm 0.6$  miles of new road from the Gaucho Unit No. 4 location 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.
- 4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES
  - A. There are three producing gas wells within the Gaucho Unit 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 supply the necessary power to run to pump jack.
- 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.



### GAUCHO UNIT No. 7

### Multi-point Surface Use and Operations Plan

### Page 2

- SOURCES OF CONSTRUCTION MATERIALS.
  - A. Any caliche required for construction of the drilling pad will be obtained from a pit approved by the BLM.

### 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 of the 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

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.
- B. The ground surface of the location is relatively flat. Minor cutting will be required to level the pad area, which will be covered 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



# GAUCHO UNIT No. 7 Multi-Point Surface Use and Operations Plan

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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 and access route 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.

### 12. OPERATOR'S REPRESENTATIVES

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

Michael R. Burton Division Operations Manager Santa Fe Energy Resouces, Inc. 550 W. Texas, Suite 1330 Midland, Texas 79701 915-686-6616 - office 915-559-6842 - cellular



GAUCHO UNIT No.7
Multi-Point Surface Use and Operations Plan
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### 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 is approved.

SIGNED this 21 day of May , 1998

James P. (Phil) Stinson

Agent for Santa Fe Energy Resources, Inc.