Form 3160-3 (December 1990) NA CIL COMS . WAISSION

Drawer DD

Artesia, NINEED STATES
DEPARTMENT OF THE INTERIOR (Other instructions on reverse side)

فرويد والمساجعة

30-015-27368

Form approved.
Budget Bureau No. 1004-0136
Expires: December 31, 1991

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	SOCORRO	ים זרטייםם	UM COMPANY	✓ Pl	1.505-67	7-3223				
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12-1/4" 8-5/8" J-55		~ 4 ~ 21			460± sx Class C (Ci)					
	·		24.0#		560		460	± sx Clas	s C (Circ	:)
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Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

DISTRICT III

Operator

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

Well No.

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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

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

1000 Rio Brazos Rd., Aztac, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Lease

SOCORR	O PETROLE	UM COMPANY		H. E. WES	ST "A"		24
Letter Sect	ion	Township	Range	 		County	
Н	4	17 SOUTH		31 EAST	NMPM	<u>]</u>	EDDY
l Footage Location							
2625 feet from		RTH line and	15.		feet from	the EAST	
	_				_	-	Dedicated Acreage:
3938.3	Grayb	urg-San Andre	s Gray	burg-Jack	cson Po	001	40 Acres
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330 660 99	0 1320 1650	1980 2310 2640	2000 1500	1000 500		Certific	PARY L. JONES

SUPPLEMENTAL DRILLING DATA

SOCORRO PETROLEUM COMPANY
No.24 H.E. West "A"
SENE Sec.4-17S-31E
Eddy County, N.M.
Federal Lease LC 029426-A

The following items supplement Form 3160-3 in accordance with instructions contained in Onshore Oil and Gas Order No.1:

- 1. SURFACE FORMATION: Recent
- 2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

T. Salt	550'	Queen	2700'
B. Salt	1710'	Grayburg	3100'
Yates	1900'	San Andres	3500'
Seven Rivers	2100'		

3. ESTIMATED DEPTHS TO WATER, OIL OR GAS FORMATION:

Water - Possible groundwater from 0' to 300'

Oil - 2000' to TD

Gas - None anticipated

4. PROPOSED CASING PROGRAM:

8-5/8" Casing - Set 560' of 24#, J-55, Surface Casing Cemented to surface with 460 sacks

5-1/2" Casing - Set 4900' of 17.0#, J-55, Production Casing Cemented with 1000 sacks to isolate porosity zones. (tie back)

All strings of casing will be satisfactorily tested to 1000 psi.

FRESSURE CONTROL EQUIPMENT: Install a 2M, Series 600, Type
"E" Shaffer Double Hydraulic BOP on the 8-5/8" surface
casing prior to drilling into the Queen. Due to depleted
nature of the reservoir, it is requested that a waiver be
granted to test pressure control equipment to 1000 psi.
using rig pump, instead of the normal 2000 psi. test.
Exhibit D is a diagramatic sketch of the BOP equipment.

- 6. CIRCULATING MEDIUM: Drill with fresh water from surface to setting depth of surface casing. Drill remainder of hole with brine water, using additives to control water loss, viscosity and mud weight.
- 7. AUXILIARY EQUIPMENT: Equipment will include a gas detector, pit level monitor and a full-opening safety valve.
- 8. TESTING, LOGGING AND CORING PROGRAM:

Samples:

Samples will be caught at 10' intervals from below the surface casing to total

depth.

DST and Cores:

None anticipated

Logging:

Density-Neutron log Gamma Ray-Neutron log

- 9. ABNORMAL PRESSURES, TEMPERATURES OR HYDROGEN SULFIDE:
 No abnormal pressures or temperatures anticipated.
 Precautions will be taken to monitor possible traces hydrogen sulfide gas in the Grayburg.
- 10. ANTICIPATED STARTING DATE: Drilling will commence upon Federal and State approval. Drilling and completion will require about 30 days.

PERTINENT INFORMATION

For

SOCORRO PETROLEUM COMPANY No.24 H.E. West "A" SENE Sec.4-17S-31E Eddy County, N.M. Federal Lease LC 029426-A

LOCATED:

6.9 air miles northeast of

Loco Hills, New Mexico

FEDERAL LEASE NUMBER:

LC 029426-A

LEASE ISSUED:

10 Year Renewal, Eff. Feb. 1, 1989 - HBP

ACRES IN LEASE:

639.56 Ac.

RECORD LESSEE:

Atlantic Richfield Company

BOND COVERAGE:

Alta Corporation Statewide Bond

(Includes Socorro Petroleum Company)

AUTHORITY TO OPERATE: Transfer of Operating Rights to Socorro

SURFACE OWNERSHIP:

Federal

GRAZING PERMITTEE:

Caswell Ranches c/o Olane Caswell

P.O. Box 615

Meadow, Texas 79345

POOL RULES:

Keel-West Waterflood Project

EXHIBITS:

A. Road and Contour Map B. Lease and Well Map C. Drill Pad Layout

D. BOP Diagram

E. Flow Line/Power Map

MULTI-POINT SURFACE USE AND OPERATIONS PLAN

SOCORRO PETROLEUM COMPANY
No.24 H.E. West "A"
SENE Sec.4-17S-31E
Eddy County, N.M.
Federal Lease LC 029426-A

This plan is submitted with the Application for Permit to Drill the above described well. The purpose of the 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 in rehabilitating the surface after completion of the operation so that a complete appraisal can be made of the environmental effects associated with the operation.

1. EXISTING ROADS:

- A. Exhibit "A" is a portion of a road map showing the location of the proposed well as staked. The well is approximately 6.9 air miles northeast of Loco Hills, New Mexico.
- B. Directions: Go east from Loco Hills, N.M. on Hwy. 82 for a distance of 3.5 miles. Turn north on Skelly Road, which is County Road 221. Go 1.4 miles to caliche lease road. Follow lease road northeast and east a distance of 1.3 miles. Go 0.5 mile north. Turn east and go 2.2 miles on lease road to the No.40 well. Turn left (North) and go 0.25 Mi. Turn right and go 0.25 Mi. to No.44 well. Turn left and go 0.5 Mi to No. 16 well. Turn left and go and go 0.5 Mi. to No.8 injection well. The proposed well will be located about 900' southwest.

2. PLANNED ACCESS ROAD:

- A. Length and Width: The new road will be about 800' long and about 12' wide, constructed beside the lease water injection line.
- B. <u>Surfacing Material</u>: The new road and well pad will be surfaced with 6" of caliche.
- C. Maximum Grade: Less than 1%
- D. Turnouts: No traffic turnouts are necessary.

- E. Drainage Design: The road will be constructed with a 6" crown to provide proper drainage.
- F. Culverts: None necessary
- G. Cuts and Fills: Construction of the drill pad will require leveling of 3' sand dunes.
- H. Gates, Cattle Guards: None necessary

3. LOCATION OF EXISTING WELLS:

A. See Exhibit B

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

- A. The flow line for the No.24 well will be constructed beside the new road and then along the existing lease road to the H.E. WEST "A" battery, located in the N/2NE/4 of Sec.4. The flow line will be 2" steel pipe laid on the surface.
- B. The power line will be constructed from the No.8 well, beside the new road, a distance of 800' to the new well pad. See $EXHIBIT\ E$.

5. LOCATION AND TYPE OF WATER SUPPLY:

A. Fresh water for drilling from surface to 560' will be obtained from a commercial source and trucked over existing roads. Lease brine water will be used to finish drilling and completing.

6. SOURCE OF CONSTRUCTION MATERIALS:

A. Caliche for surfacing the road and pad will be purchased from a Federal pit located in the SESE Sec.5-17S-31E.

7. METHODS OF HANDLING WASTE DISPOSAL:

- A. Drill cuttings will be disposed of in the drilling pits.
- B. Drilling fluids will be allowed to evaporate in the drilling pits until the pits are dry.
- C. Water produced during test will be disposed of in the drilling pits. Oil produced during test will be stored in test tanks until sold.

D. Current laws and regulations pertaining to the disposal of human waste will be complied with.

Burial is not authorized. Trash, waste paper, garbage, and junk will be buried in a separate trash pit and covered with a minimum of 24 inches of dirt. All waste material will be contained to prevent scattering by the wind. Location of the trash pit is shown on Exhibit "C".

F. All trash and debris will be buried or removed from the wellsite within 30 days after finishing drilling and/or completion operations.

8. ANCILLARY FACILITIES:

A. None required

9. WELL SITE LAYOUT:

- A. The wellsite, surrounded by a 400' X 400' area has been surveyed and flagged.
- B. Dimensions and relative location of the drill pad and pit are shown on Exhibit C.

10. PLANS FOR RESTORATION OF THE SURFACE:

- A. After completion of drilling and/or completion operations, all equipment and other material not needed for operations will be removed. Pits will be filled and the location cleaned of all trash and junk to leave the wellsite in an aesthetically pleasing condition as possible.
- B. Any unguarded pits containing fluids will be fenced until they are filled.
- C. If the well is non-productive the disturbed area will be rehabilitated to surface owner requirements and will be accomplished as expeditously as possible.

11. OTHER INFORMATION:

- A. Topography: The wellsite and access road are flat, except for sand dunes. The project area generally drains southwest toward Cedar Lake Draw. Construction of the drill pad will require leveling of 4' sand dunes and surfacing with caliche.
- B. <u>Soil</u>: The surface soil is fine sand with occasional caliche and chert inclusions.

- C. Flora and Fauna: Vegetation consists of oak shinnery, mesquite, sagebrush, yucca, and various weeds and grasses. Ground cover is about 15%. Wildlife in the area is that typical of semi-arid desert land, such as coyotes, rodents, reptiles and birds.
- D. Ponds or Streams: None
- E. Residences and Other Structures: None in this area.
- F. Archaeological, Historical and Other Cultural Sites: A review by Archaeological Survey Consultants indicated that there are no cultural sites within the project area. An Archaeological report has been furnished to BLM.
- G. Land Use: The surface is used for cattle grazing.
- H. Surface Ownership: The drillsite and access road are located on Federal surface. The grazing lessee is Caswell Ranches, P.O. Box 615, Meadows, Texas 79345.

12. OPERATOR'S REPRESENTATIVE:

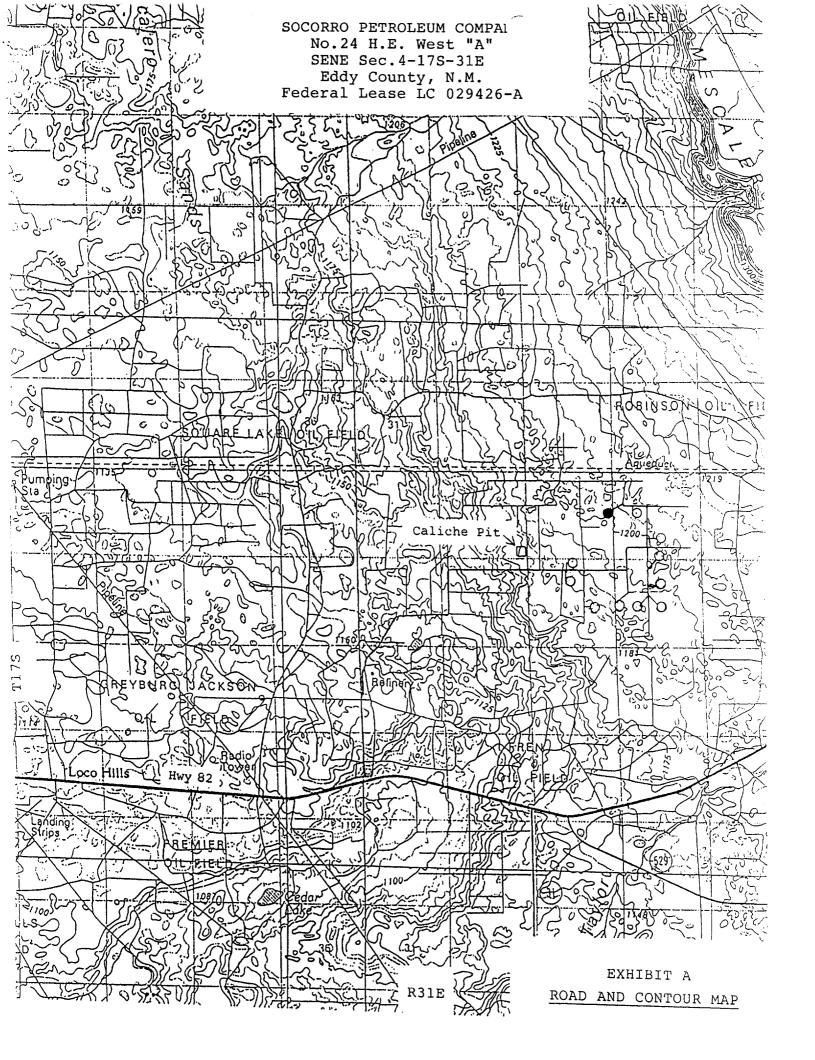
Representative responsible for assuring compliance with the approved Surface Use Plan:

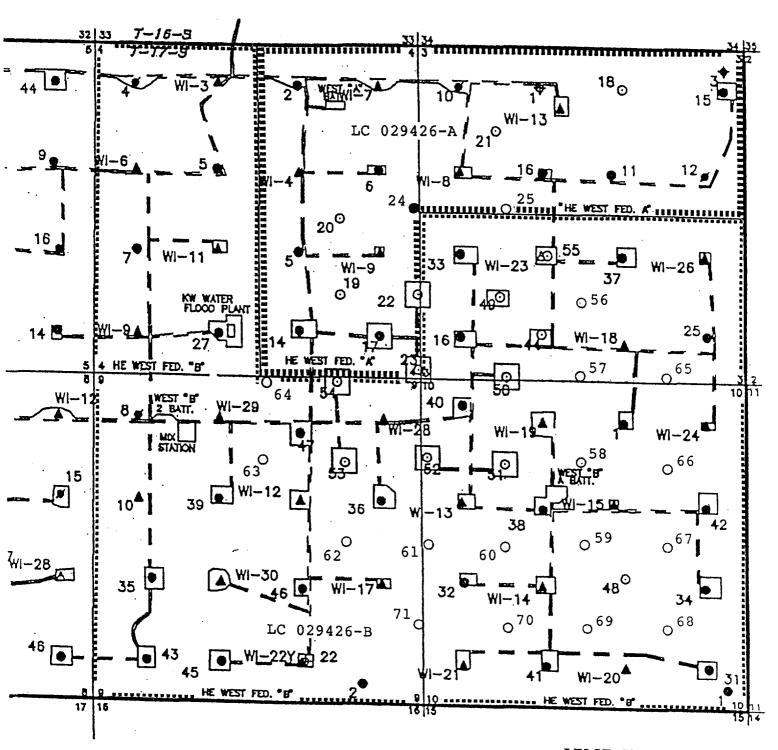
Mr. Robert Setzler P.O. Box 37 Loco Hills, New Mexico 88255 Phone 505-677-2360

13. CERTIFICATION:

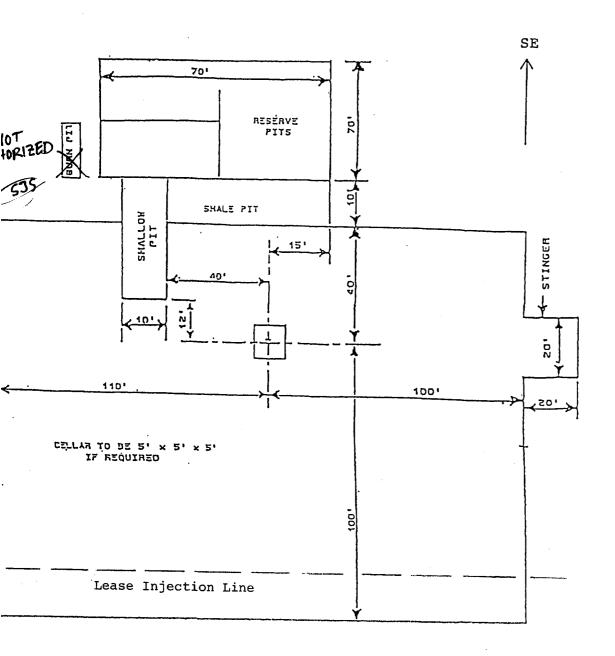
I hereby certify that I, or person under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge true and correct; that the work associated with the operations proposed herein will be performed by SOCORRO PETROLEUM COMPANY and its sub-contractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

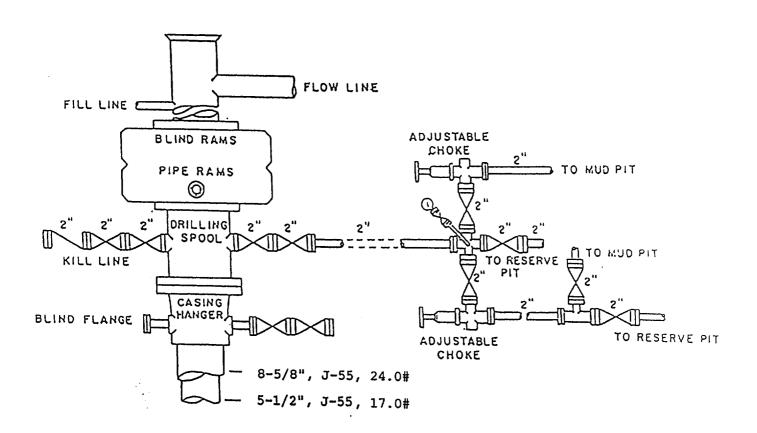
JERRY W. LONG, Permit Agent for: SØCORRO/PETROLEUM COMPANY





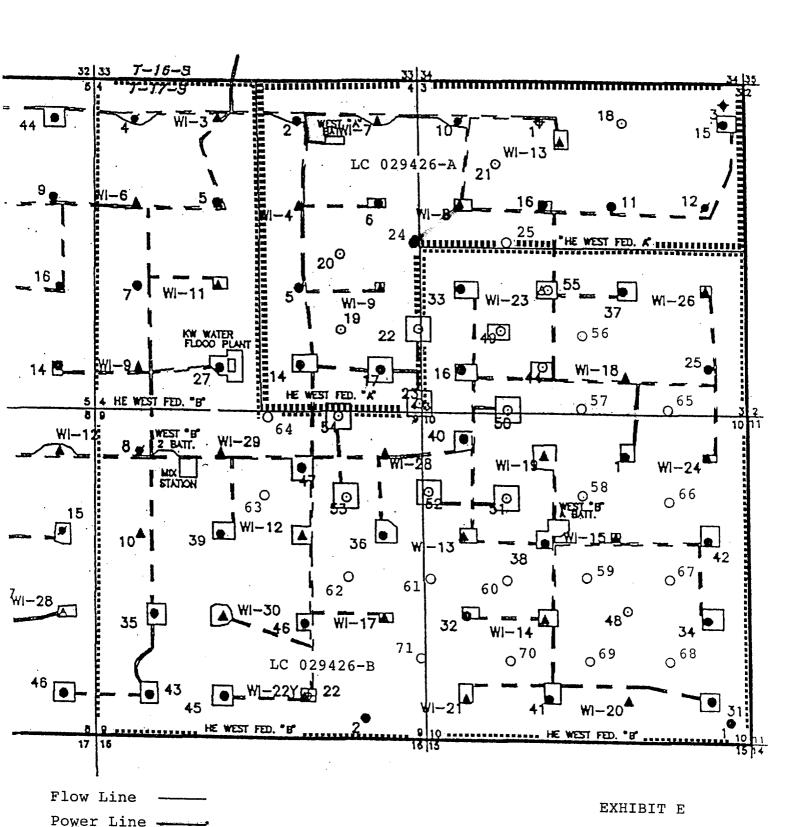
LEASE AND WELL MAP





BOP DIAGRAM

2000# Working Pressure Rams Operated Daily



POWER LINE/FLOW LINE MAP