Louiselan III SUBMIT IN TRIPLICATES **UNITED STATES** 

(Other instructions on reverse side)

30-015-27402

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

APPLICATION FOR PERMIT TO DRILL OR DEEPEN  A. TITLE OF WORK  DRILL DEEPEN  DRILL DEEPEN  DEEPEN  DEEPEN  DEEPEN  DEEPEN  PP. 505-677-3223  PP. 505-677-3223  ROCCORRO PETROLEUM COMPANY  PP. 505-677-3223  DOCUMENT OF WALL CREATER COMPANY  DOCUMEN		Expires: Decen								
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(This space for Federal or State office use)  PERMIT NO	production Selectivel Run 2-7/8" formation See attach APPROVAL SUBJE GENERAL REQUIR SPECIAL STIPULA ATTACHED ABOVE SPACE DESCRIBE Expen directionally, give perting	casing to TD, or perforate favorate tubing to perforate favorate f	cemented with crable Gray corations arks.  a and Surfa  proposal is to deepen, as and measured and to	give data	dox location is ufficient cemer zones.  eat formation of the see Plan.  For the see Plan and the see Plan an	s pending to is with 15s	ng. Set 5-1/2" solate porous z  HCL. Sand-fr	ones.		
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Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations there conditions of APPROVAL, IF ANY:	PERMIT NO.	·			APPROVAL DATE ACT	<u> </u>	STATE OF THE STATE			
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## State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

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

## WELL LOCATION AND ACREAGE DEDICATION PLAT

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 All Distances must be from the outer boundaries of the section

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Operator SOCORRO PETROLEUM COMPANY							H. E. WEST "B"					Well No.	
Unit Letter	Section Township						· · · · · · · · · · · · · · · · · · ·				County		
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Ground Level Elev	· Pr	oducing Fo		· · · · · ·			1	T.	-1	D =	_ 1	Dedicated Acreage:	
3904.3		Grayb	urg-s	oan A	ndres	Gr	aybur	g-Ja	ckson	PO	001	40 Acres	
i. Outline the ac	creage de	edicated to	the sub	ect well	by colored p	encil or h	achure n	narks on	the plat be	elow.			
2. If more than Single	one lead e Lea	se is dedic	ated to t	he well,	outline each	and ident	ify the	ownership	thereof (t	ooth	as to worki	ng interest and royalty).	
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#### SUPPLEMENTAL DRILLING DATA

SOCORRO PETROLEUM COMPANY
No.64 H.E. West "B"
NWNE Sec.9-17S-31E
Eddy County, N.M.
Federal Lease LC 029426-B

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 B. Salt	550' 1710'	Queen	2700'
	•	Grayburg	3100'
Yates	י1900	San Andres	3500'
Seven Rivers	21001	:	3300

# 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.(TIEBACK)

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

5. PRESSURE 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.

POK GJS

- 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.64 H.E. West "B" NWNE Sec.9-17S-31E Eddy County, N.M. Federal Lease LC 029426-B

LOCATED:

6.3 air miles northeast of

Loco Hills, New Mexico

FEDERAL LEASE NUMBER:

LC 029426-B

LEASE ISSUED:

20 Year Renewal, Eff. March 1, 1991 - HBP

ACRES IN LEASE:

1919.88 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.64 H.E. West "B"
NWNE Sec.9-17S-31E
Eddy County, N.M.
Federal Lease LC 029426-B

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 6.3 air miles northeast of Loco Hills, New Mexico.
- B. <u>Directions</u>: 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 1.3 miles on lease road to the No.29 well. The proposed well will be located about 950' northeast.

#### 2. PLANNED ACCESS ROAD:

- A. Length and Width: The new road will be about 800' long and about 12' wide. The road will be on the east side of the lease injection line R-O-W.
- B. Surfacing Material: 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. <u>Cuts and Fills</u>: Construction of the drill pad will require leveling of 6' 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.64 well will be constructed beside the new road and then along the existing lease road to the H.E. WEST "B" No.2 battery, located in the NWNW of Sec.9. The flow line will be 2" steel pipe laid on the surface.
- B. The power line will be constructed from the No.64 well, beside the new road, a distance of 800' to the existing lease power line. 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, if there is not sufficient caliche from the reserve pit.

#### 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.

- E. 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 10 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.
- 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:

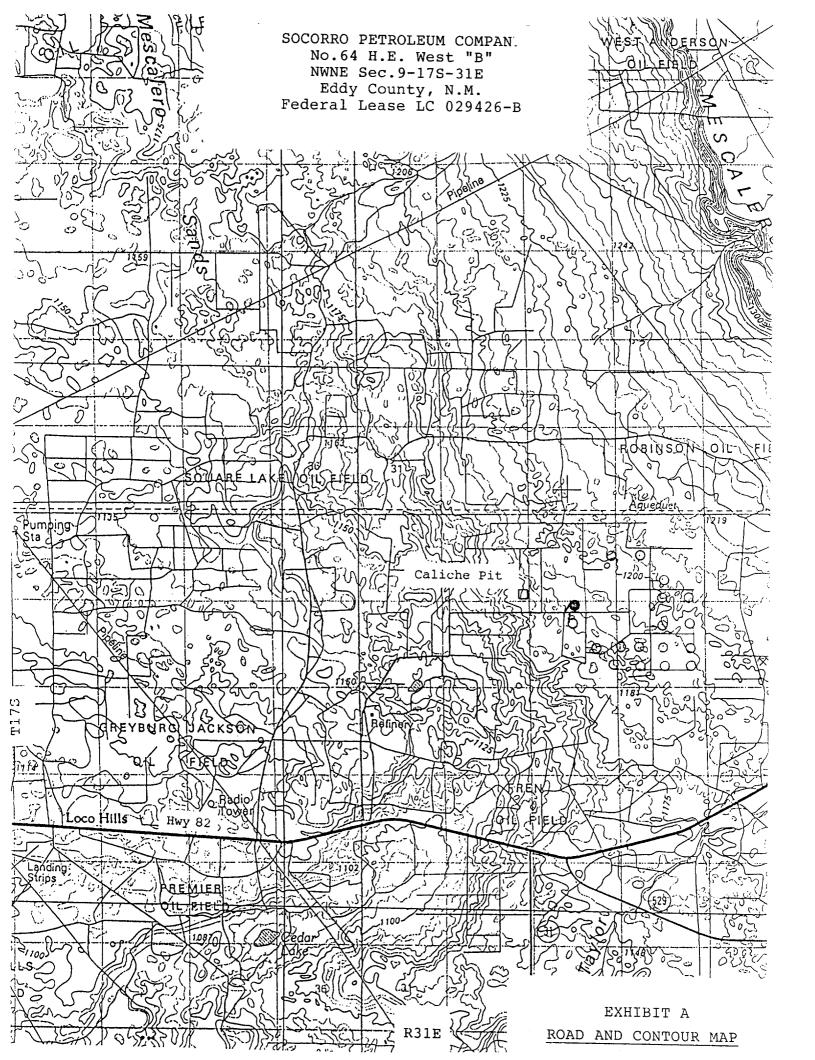
Mr. Robert Setzler P.O. Box 37 Loco Hills, New Mexico 88255 Phone 505-677-2360

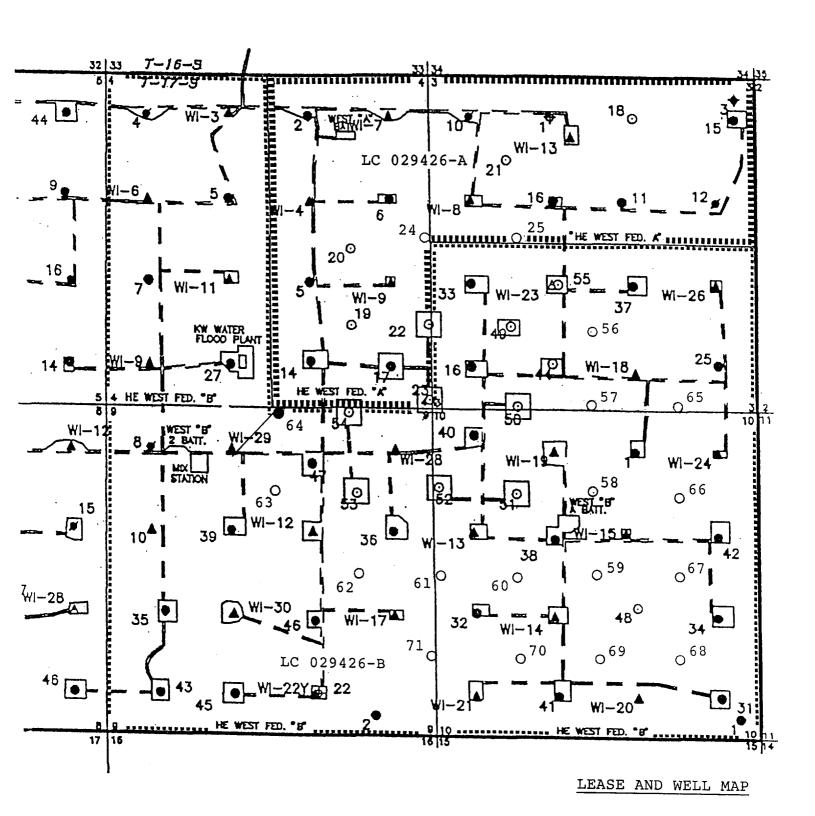
## 13. CERTIFICATION:

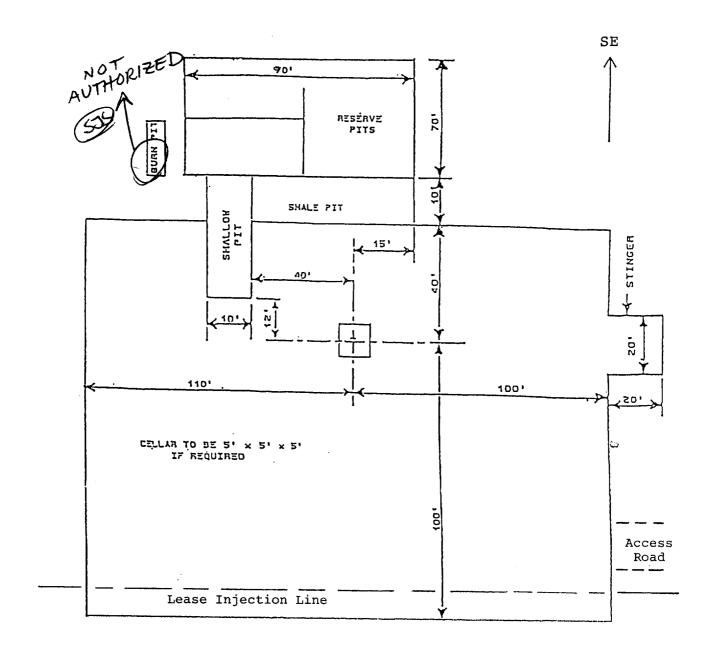
I hereby certify that I, or person under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge true and correct; that the work associated with 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.

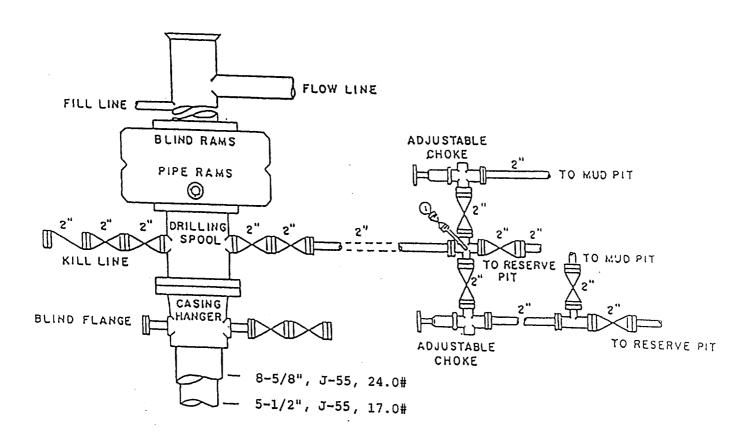
1/14/93 Date:

JERRY W. LONG, Permit Agent for: SOCORRO PETROLEUM COMPANY









### BOP DIAGRAM

2000# Working Pressure Rams Operated Daily

