

Submit to Appropriate
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Fee Lease - 3 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

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

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

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 Socorro Petroleum Company			Lease H.E. West "B"		Well No. 49
Unit Letter M	Section 3	Township 17 South	Range 31 East	County Eddy	
Actual Footage Location of Well: 1305 feet from the South line and 1305 feet from the West line					
Ground level Elev. 3838	Producing Formation Grayburg		Pool Grayburg Jackson		Dedicated Acreage: 20 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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).

3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?

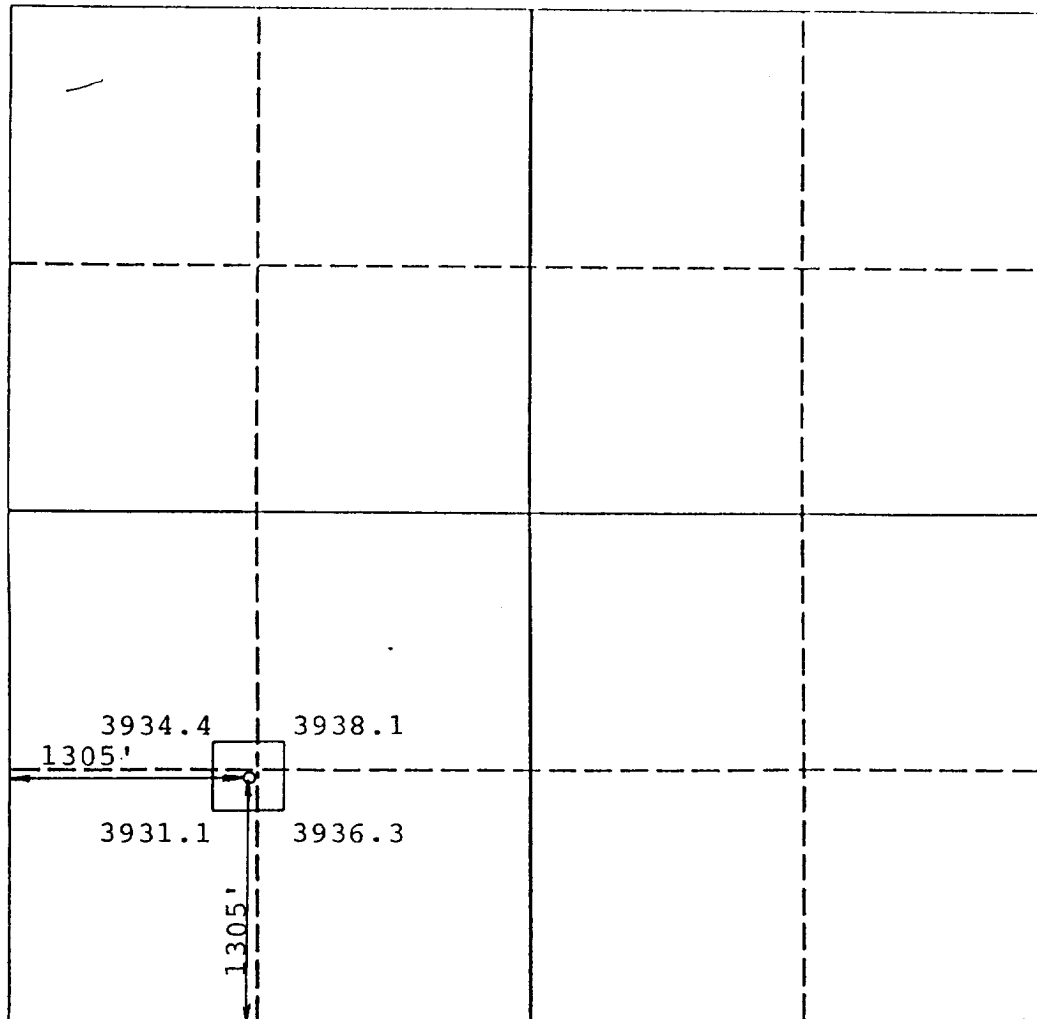
☐ Yes

☐ No

If answer is "yes" type of consolidation

If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.



OPERATOR CERTIFICATION

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

Ben D. Gould
Signature

Ben D. Gould
Printed Name

Manager
Position

Socorro Petroleum Co.
Company

5/15/91
Date

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.

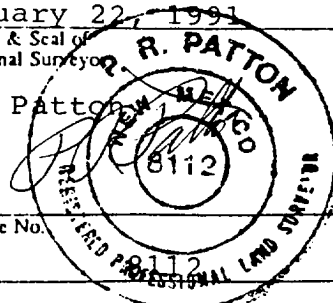
Date Surveyed

February 22, 1991

Signature & Seal of
Professional Surveyor

P.R. Patton

Certificate No.



APPLICATION FOR DRILLING

SOCORRO PETROLEUM COMPANY
H. E. WEST "B", Well No. 49
1305' FWL & 1305' FSL, Sec. 3-T17S-R31E
Eddy County, New Mexico
Lease No.: LC-029426-B

In conjunction with Form 3160-3, Application for Permit to Drill subject well, Socorro Petroleum Company submits the following items of pertinent information in accordance with BLM requirements:

1. The geological surface formation is recent Permian with quaternary alluvium and other surficial deposits.
2. The estimated tops of geological markers are as follows:

Rustler Anhydrite	520'	Grayburg	3093'
Top of Salt	661'	Premier Sand	3281'
Base of Salt	1626'	San Andres	3423'
Yates	1876'	Lovington Sand	3541'
Seven Rivers	2070'	Lower S.A. "M"	3621'
Queen	2705	T. D.	4000'

3. The estimated depths at which water, oil or gas formations are anticipated to be encountered:

Water: Random fresh water from surface to 300' +/-, and water flow from injection wells possible at around 2700'.

Oil: Grayburg at approximately 3093' or below.

Gas: None anticipated.

4. Proposed Casing Program: See Form 3160-3.
5. Proposed Control Equipment: See Form 3160-3.
6. Mud Program: See Form 3160-3.
7. Auxiliary Equipment: Blowout preventer, gas detector, kelly cock, pit level monitor, flow sensors and stabbing valve.
8. Testing, Logging and Coring Program:

Drill Stem Tests: None planned.

Logging: LDT/CNL	T.D. - 1775'
DLL RXO NGT.	T.D. - 1775'
GRN	T.D. - Surface

Coring: None planned.

9. No abnormal pressures or temperatures are anticipated. In the event abnormal pressures are encountered, the proposed mud program will be modified to increase the mud weight.

APD
Socorro Petroleum Company
H. E. West "B", Well No. 49
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10. Anticipated starting date: 6/15/91
Anticipated completion of drilling operations: Approximately 20 days.

MULTI-POINT SURFACE USE AND OPERATIONS PLAN

SOCORRO PETROLEUM COMPANY
H. E. WEST "B", Well No. 49
1305' FWL & 1305' FSL, Sec. 3-T17S-R31E
Eddy County, New Mexico
Lease No.: 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 the operations plan 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 operations.

1. EXISTING ROADS:

- A. Exhibit "A" is a portion of a BLM Quad map showing the location of the proposed well as staked, in relation to existing roads and U.S. Highway 82. The well is approximately 11 miles NE of Loco Hills, New Mexico, with half the distance paved.
- B. Directions: From Loco Hills go east on U.S. 82 3.5 miles to the paved county road No. 221. Turn north on Skelly Rd. (County #221) for approximately 1.3 miles, then turn northeast onto the gravel road at the fork for .7 mile. Then turn east for .6 mile. Then turn north for .5 mile. Then turn east for 1.5 miles. Then turn north for .3 mile to existing location for West "B" #16. Follow existing pipeline ROW northeast for .2 mile to location. (See Exhibit "B".)

2. PLANNED ACCESS ROAD:

- A. Length and Width: A 620' road 12' wide will be constructed from existing road east to the proposed wellsite.
- B. Construction: The new road will be 12' wide with a center crown, with 4 inches compacted caliche. The existing roads will be graded and topped with compacted caliche as needed.
- C. Turnouts: None required.
- D. Culverts: None required.
- E. Cut and Fill: The area has 8 to 15 foot sand dunes and deflation basins to be leveled.
- F. Gates, Cattleguards: None required.

3. LOCATION OF EXISTING WELLS:

- A. Existing wells within a two miles radius are shown on Exhibit "C".

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES;

- A. There are production facilities on the lease at this time. See Exhibit "C".
- B. If the oil well proves to be commercial, the necessary production facilities will be installed on the drilling pad and flow lines will be installed along the proposed and existing access roads to the storage tanks.

5. LOCATION AND TYPE OF WATER SUPPLY:

- A. It is planned to drill the proposed well with fresh and brine water which will be obtained from commercial sources. The water will be transported over proposed and existing access roads.

6. SOURCES OF CONSTRUCTION MATERIALS:

- A. Caliche for surfacing access roads and the wellsite pad will be obtained from a Federal pit in the SE4SE4 of Section 5-T17S-R31E. The pit has been staked and cleared by the archaeologist. The topsoil from the location will be stockpiled near the location for future rehabilitation use. No surface materials will be disturbed except those necessary for actual grading and leveling of the drill site and access roads.

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. All pits will be fenced with normal fencing materials to prevent livestock from entering the area.
- D. Water produced during operations will be collected in tanks until hauled to an approved disposal system, or separate disposal application will be submitted to the BLM for approval.
- E. Oil produced during operations will be stored in tanks until sold.
- F. Current laws and regulations pertaining to the disposal of human waste will be complied with.
- G. Trash, waste papers, garbage and junk will be buried in a

separate trash pit and covered with a minimum of 24 inches of dirt. All waste materials will be contained to prevent scattering by the wind.

- H. All trash and debris will be buried or removed from the well-site within 30 days after finishing drilling and/or completion operations.

8. ANCILLARY FACILITIES:

- A. None required.

9. WELLSITE LAYOUT:

- A. Exhibit "D" shows the relative location and dimensions of the well pad, reserve pits, and major rig components. The pad and pit area has been staked and flagged.
- B. Mat Size: 140' x 210' plus reserve pits.
- C. Cut & Fill: The area has 5 to 12 foot sand dunes and deflation basins to be leveled.
- D. The surface will be topped with compacted caliche and the reserve pits will be plastic lined.

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 as aesthetically pleasing a condition as possible.
- B. Any unguarded pits containing fluids will be fenced until they are filled.
- C. If the proposed well is non-productive, all rehabilitation and/or vegetation requirements of the Bureau of Land Management will be complied with and will be accomplished as expeditiously as possible. All pits will be filled and leveled within 90 days after abandonment.

11. OTHER INFORMATION:

- A. Topography: The wellsite and access road are located in the Mescalero Pediment, north of the Querecho Plains, to the east of the Nimenim Ridge, within an area draining generally southwest towards Cedar Lake Draw, ca 4.6 miles SW. The area is characterized by relatively level to undulating aeolian topography, with localized low dune rises in the SW & NE quadrants; a major dune rise occurs some distance to the S/SW, outside of the well pad area. Deflation basins, generally less than 1.5 metres deep, are confined to the rises.

SURFACE USE AND OPERATIONS PLAN
Socorro Petroleum Company
H. E. West "B", Well No. 49
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B. Soil: Interface of Kermit-Berino fine sands and Berino complex sands.

C: Flora and Fauna: The vegetation cover is grassland formation scrubgrass scrub disclimax community. The wildlife consists of rabbits, coyotes, rattlesnakes, lizards, dove, quail and other wildlife typical of the semi-arid desert land.

D: Ponds and Streams: Closest permanent water is Nakee Ishee Lake, ca 17.3 miles W/NW.

E: Residences and Other Structures: None

F: Land Use: Cattle grazing

G: Surface ownership: The proposed wellsite and existing access road is on Federal surface and minerals.

H: Archaeological survey did not reveal any cultural resources. The survey was performed by Archaeological Survey Consultants of Roswell, N. M., and a copy of their report has been furnished to the BLM - Carlsbad Resource Area.

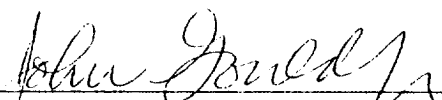
12. OPERATOR'S REPRESENTATIVE:

A. The field representative responsible for assuring compliance with the approved surface use and operations plan is as follows:

John Gould, Jr.
Socorro Petroleum Company
P. O. Box 38
Loco Hills, New Mexico 88255
(505) 677-2360

13. CERTIFICATION:

I hereby certify that I have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in the 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 Socorro Petroleum Company and its contractors and subcontractors in conformity with this plan and their 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.


Socorro Petroleum Company

ARCHAEOLOGICAL SURVEY CONSULTANTS

CULTURAL RESOURCES EXAMINATION

on lands administered by the
Department of the Interior
Bureau of Land Management
Roswell District, New Mexico

ASC PERMIT NO.: 18-2920-90-E
ASC Job No.: 91-41; Socorro
Petroleum Company H.E. West B
Fed. Well # 49 & Access Road

1. ABSTRACT: intensive archaeological survey of the Socorro Petroleum Company H.E. West "B" Federal Well No. 49 (400 ft. sq., 3.67 acres), and access road R/W (430 ft. long X 100 ft. wide, 0.99 acres) with a total federal land surface of 4.66 acres inspected for cultural remains. The access road is parallel to & partially within the R/W of an extant pipeline.

Archaeological survey did not reveal any cultural resources. Therefore, archaeological ~~CLEARANCE~~ for the Socorro Petroleum Company H.E. West "B" Federal Well No. 49 and access road R/W is ~~RECOMMENDED~~.

2. WELL PAD LOCATION: T17S, R31E, Section 3, SW $\frac{1}{4}$ SW $\frac{1}{4}$ [1305 FSL, 1305 FWL]. **ACCESS ROAD R/W LOCATION:** T17S, R31E, Section 3: SW $\frac{1}{4}$ SW $\frac{1}{4}$. Eddy County, New Mexico.

Map Reference: U.S.G.S. 7.5 minute series, MALJAMAR, NEW MEXICO, 1985. **Land Status:** BLM, Roswell District/Carlsbad Resource Area, New Mexico.

3. PROJECT DESCRIPTION: well pad (400 ft. sq., 3.67 acres), and access road R/W (430 ft. long X 100 ft. wide, 0.99 acres) with a total federal land surface of 4.66 acres inspected for cultural remains. The access road is parallel to & partially within the R/W of an extant pipeline.

TOPOGRAPHY: Mescalero Pediment, north of the Querecho Plains, to the east of the Nimenim Ridge, within an area draining generally southwest towards Cedar Lake Draw, ca. 4.6 miles SW. The area is characterized by relatively level to undulating aeolian topography, with localized, low dune rises in the SW & NE quadrants; a major dune rise occurs some distance to the S/SW, outside of the well pad area. Deflation basins, generally less than 1.5 metres deep, are confined to the rises. **Soils:** interface of Kermit-Berino fine sands & Berino complex sands. **Permanent Water:** Nakee Ishee Lake, ca. 17.3 miles W/NW. **Potential Water:** Taylor Draw, ca. 2.65 miles SE. **Elevation:** 3931 ft. to 3938 ft. **Slope:** 0.57°. **Aspect:** SW. **Lithic Resources:** not available in the project vicinity. **Vegetation:** Grassland Formation, Scrub-grass scrub disclimax community.

4. EXAMINATION PROCEDURE: straight and zig-zag transects, spaced no greater than 15 metres apart. Ca. 1.5 work hours on ground. Project area staked by client representative. **Visibility:** ca. 60% to 75%. **Weather:** sunny.

5. FINDINGS: BLM records (Ruebelmann, 3/04/1991) indicate the recording of NM-06-4746 & NM-06-4743 in Section 3 (T17S, R31E). The sites will not be endangered by construction activity.

Archaeological survey did not reveal any cultural resources.

6. RECOMMENDATIONS: archaeological ~~CLEARANCE~~ for the Socorro Petroleum Company H.E. West "B" Federal Well No. 49 and access road R/W is ~~RECOMMENDED~~.

Date(s) of Examination: March 17, 1991

Project Archaeologist:

Principal Investigator:

D. M. Griffiths.

D. M. Griffiths

GEOLOGICAL SURVEY

103° 52' 30" 4060000

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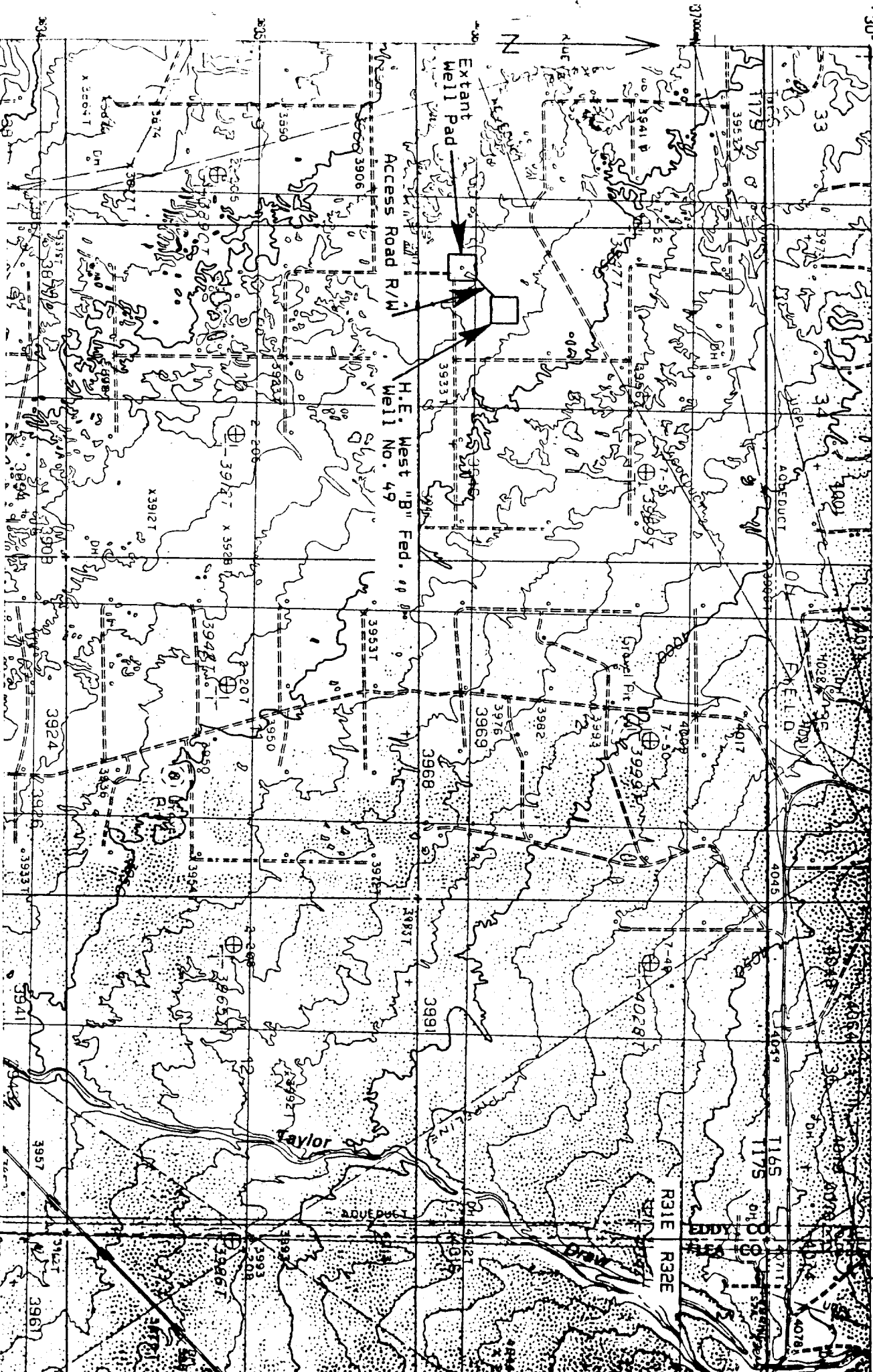
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09 50'

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11 25'

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Map showing the location of the Socorro Petroleum Company H.E. West "B" Federal Well No. 49 and Access Road R/W. T17S, R31E, Section 3, Eddy County, New Mexico (BLM, Roswell District, Carl's-bad Resource Area, N.M.J. Squares show locations of well pads; solid line shows location of access road R/W. U.S.G.S. 7.5 minute series, MALJAMAR, NEW MEXICO, 1985. ASC Project 91-41.

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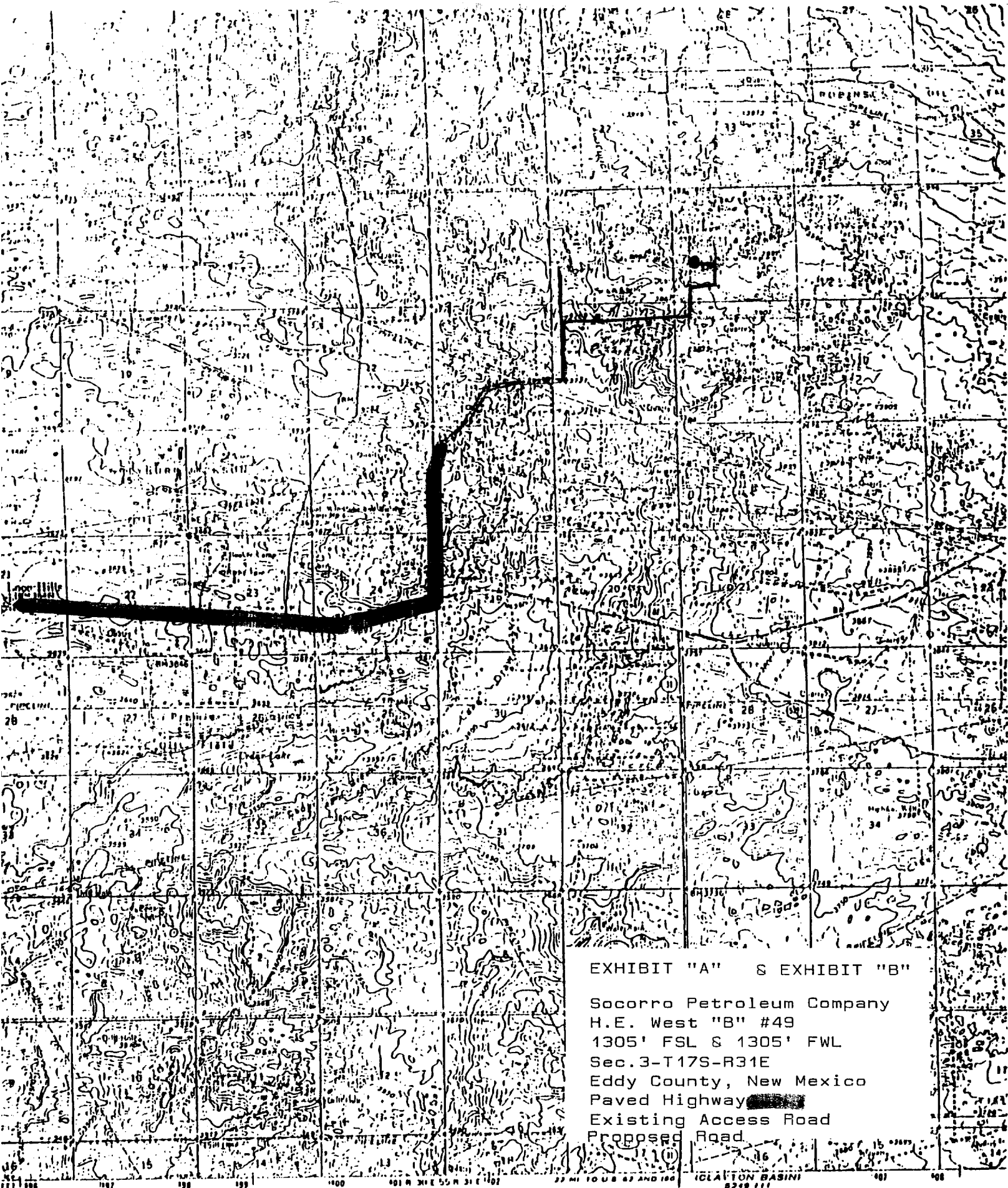


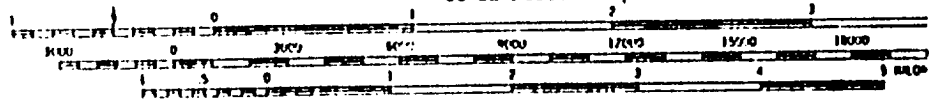
EXHIBIT "A" & EXHIBIT "B"

Socorro Petroleum Company
H.E. West "B" #49
1305' FSL & 1305' FWL
Sec. 3-T17S-R31E
Eddy County, New Mexico
Paved Highway
Existing Access Road
Proposed Road

SCALE 1:62500

by the Geological Survey

from aerial photographs
ble surveys 1963



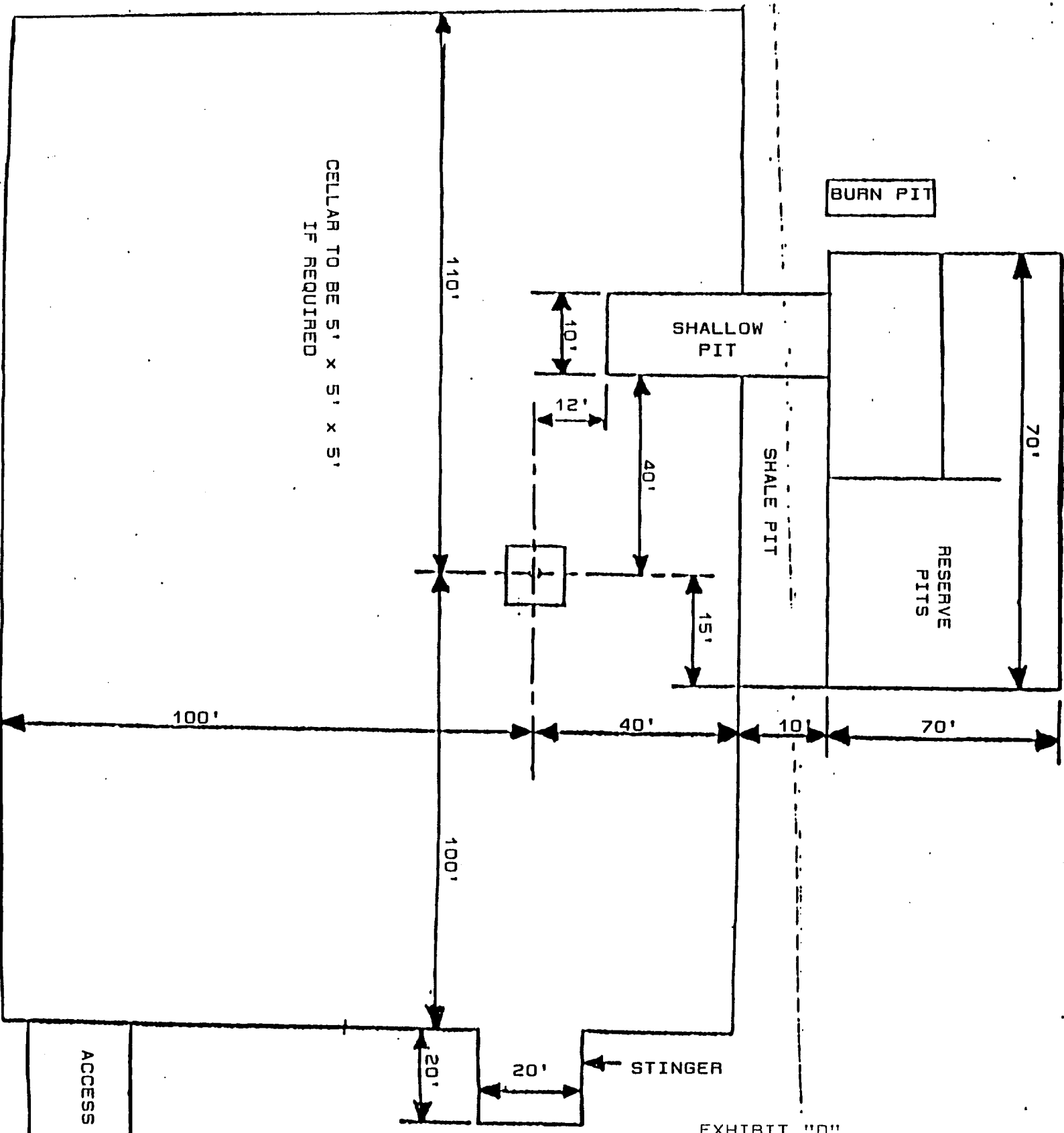
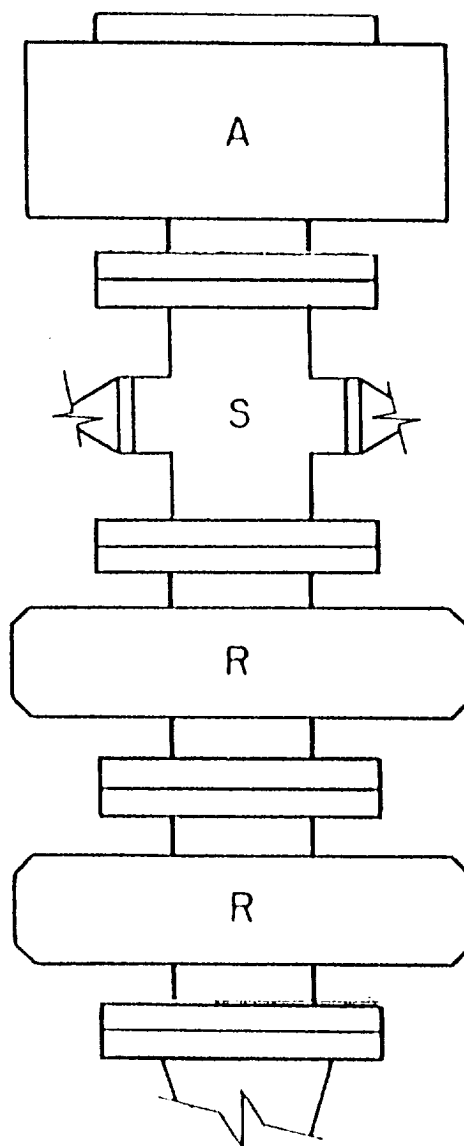


EXHIBIT "D"
Socorro Petroleum Company
H.E. West "B" #49
1305' FSL & 1305' FWL
Sec.3-T17S-R31E
Eddy County, New Mexico
Rig Layout



A - Stripping Rubber

R - Blind and Pipe Rams

EXHIBIT "E"
Socorro Petroleum Company
H.E. West "B" #49
1305' FSL & 1305' FWL
Sec.3-T17S-R31E
Eddy County, New Mexico
BOP Diagram