

Form 3160-3 Drawer DD
(July 1989)
(formerly 9-3316)

Artesia, NM 88210 UNITED STATES

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CONTACT R VING
OFFICE FOR NUMBER
OF COPIES REQUIRED
(Other instructions on
reverse side)

30-015-26574
BLM Roswell District
Modified Form No.
NM60-3160-2

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1A. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

B. TYPE OF WELL

OIL
WELL ☒

GAS
WELL ☐

OTHER ☐

SINGLE
ZONE ☐

MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Socorro Petroleum Company

3a. Area Code & Phone No.

505/677-2360

3. ADDRESS OF OPERATOR

P.O. Box 38, Loco Hills, NM 88255

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface

720' FSL & 1980' FWL

At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

9 miles northeast from Loco Hills, NM

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

720'

16. NO. OF ACRES IN LEASE

1919.88

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

1320'

19. PROPOSED DEPTH

4050'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

3935' GR

22. APPROX. DATE WORK WILL START*

11/1/90

23.

PROPOSED CASING AND CEMENTING PROGRAM

No Water Basin

HOLE SIZE	CASING SIZE	WEIGHT/FOOT	GRADE	THREAD TYPE	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8"	24#	J-55	8 R CIRCULAR	580'	300 ex. C1. C w/2% C
7-7/8"	5-1/2"	15.5#	J-55	8 R	4050'	300 ex. C1. C + 600 Lite

Mud Program:

0 - 580' Drill with fresh water
580 - 4050' Drill with saturated brine.

BOP Diagram:

Will install on the 8-5/8" surface using a 10" Series 900 Type Double Hydraulic BOP and will test before drilling into the Queen formation.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

TITLE

Manager

DATE 10/12/90

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

APPROVAL SUBJECT TO

GENERAL REQUIREMENTS AND

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

RECEIVED

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

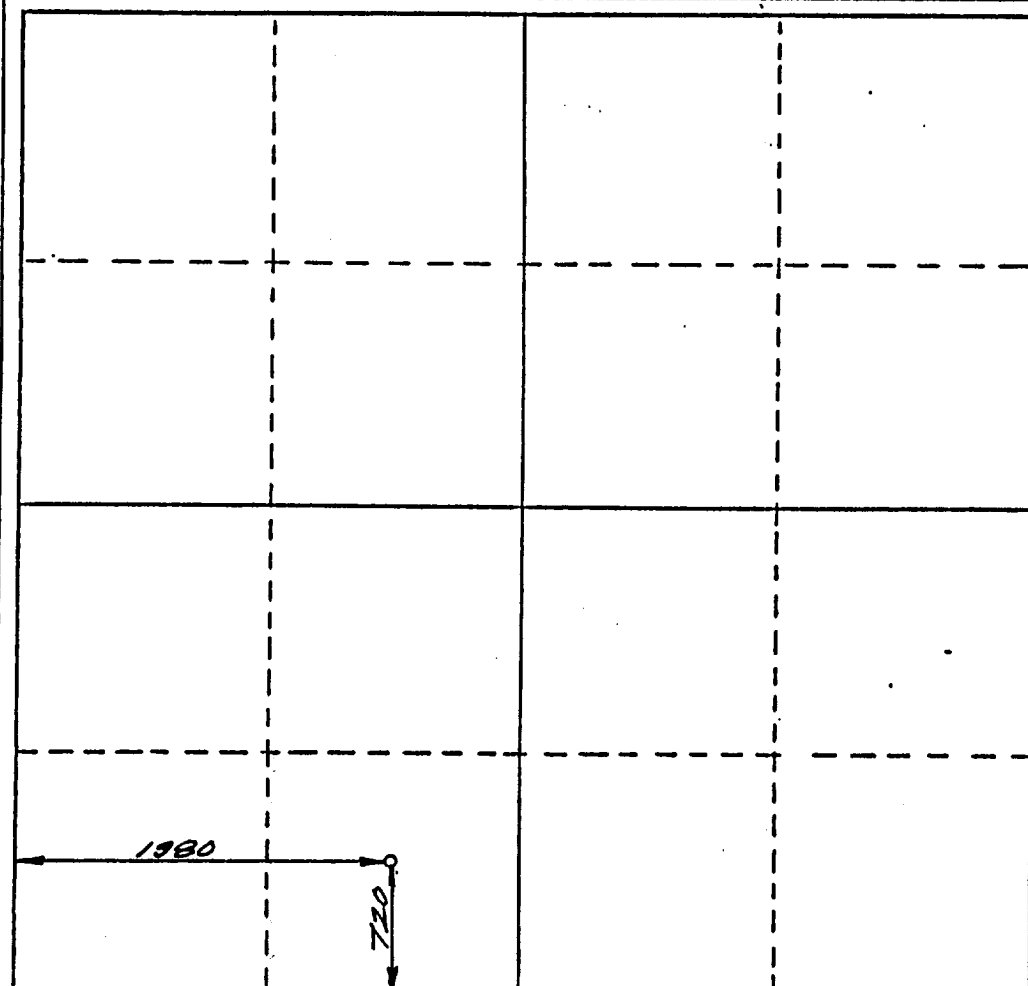
Operator Hondo Oil & Gas Company			Lease H.E. West "B"			Well No. 44		
Unit Letter N	Section 3	Township 17 South		Range 31 East	County Eddy	Date OCT 30 12 03 PM '90		
Actual Footage Location of Wells 720 feet from the South line and 1980 feet from the West line								
Ground Level Elev. 3935		Producing Formation Grayburg		Pool Grayburg Jackson		Dedicated Acreage 40 Acres		

1. Outline the acreage dedicated to the subject well by colored pencil or hachure 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 interests 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 interests, has been approved by the Division.



CERTIFICATION

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

Ron Brown

Name
Ron Brown

Position
Engineer

Company
Hondo Oil & Gas Company

Date
4/27/89

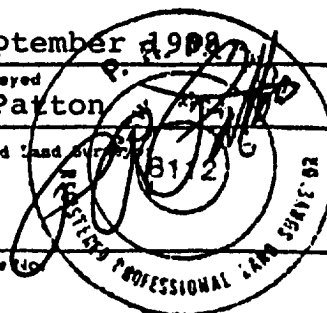
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

22 September 1990

Date Surveyed
P.R. Patton

Registered Land Surveyor
8112

Certificate No.
8112



APPLICATION FOR DRILLING

SOCORRO PETROLEUM COMPANY
H. E. WEST "B", Well No. 44
720' FSL & 1980' FWL, 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	580'	Grayburg	3225'
Top of Salt	810'	Premier Sand	3400'
Base of Salt	1725'	San Andres	3570'
Yates	1880'	Lovington Sand	3680'
Seven Rivers	2195'	T. D.	4000'
Queen	2810'		

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 2790'.

Oil: Grayburg at approximately 3225' 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. - 580'
DLL RXO NGT.	T.D. - 580'
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. 44
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10. Anticipated starting date: 11/1/90
Anticipated completion of drilling operations: Approximately 20 days.

SOCORRO PETROLEUM COMPANY
H. E. WEST "B", Well No. 44
720' FSL & 1980' FWL, Sec. 3-T17S-R31E
Eddy County, New Mexico
Lease No.: 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 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 9.2 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 2 miles. Then turn north for .3 mile. Then turn east for .3 mile and go to location. (See Exhibit "B".)

2. PLANNED ACCESS ROAD:

- A. Length and Width: None required. The existing roads will be repaired and will enter location on the southwest corner and on the northeast corner. (See Exhibit "B".)
- B. Construction: The existing roads will be graded and topped with caliche as needed.
- C. Turnouts: None required.
- D. Culverts: None required.
- E. Cut and Fill: None required except to clear and repair existing roads.
- 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.

SURFACE USE AND OPERATIONS PLAN

Socorro Petroleum Company

H. E. West "B", Well No. 44

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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 toward Cedar Lake Draw, ca. 4.75 miles SW. The project area is characterized by undulating aeolian topography, with the occurrence of a localized, low, dune rise in the north and extreme south of the part of the well pad. There are a number of deflation basins, circular or elongate in plan, generally ca. 1.0 to 1.5 metres in depth. Elsewhere, deflation basins are relatively shallow and small in size.
- B. Soil: The topsoil at the wellsite is Kermit-Berino fine sands.

- C. Flora and Fauna: The vegetative cover is one of a grassland environment and a scrub-grass 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: None in the area.
- E. Residences and Other Structures: None in the area.
- F. Land Use: Cattle grazing.
- G. Surface Ownership: The proposed wellsite and existing access road are on Federal surface and minerals.
- H. Archaeological survey revealed the occurrence of a BLM Category 1 archaeological site (ASC 89-31-S1), consisting of a limited activity locale, Type 4A (Kemrer & Kearns 1984). All 13 lithic artifacts were recorded in detail, including measurement of each individual specimen. With the exception of 3 core fragments and 1 retouched piece, all specimens consist of chert and quartzite lithic debitage. The recording process exhausts the data potential of the assemblage, in the archaeologist's opinion; further, he also feels the number of specimens is too low for valid qualitative analyses of attributes. Therefore, archaeological clearance has been recommended. The archaeological survey was conducted by Archaeological Consultants, P. O. Box D, Roswell, NM 88201, and their report has been submitted to the appropriate governmental agencies.

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

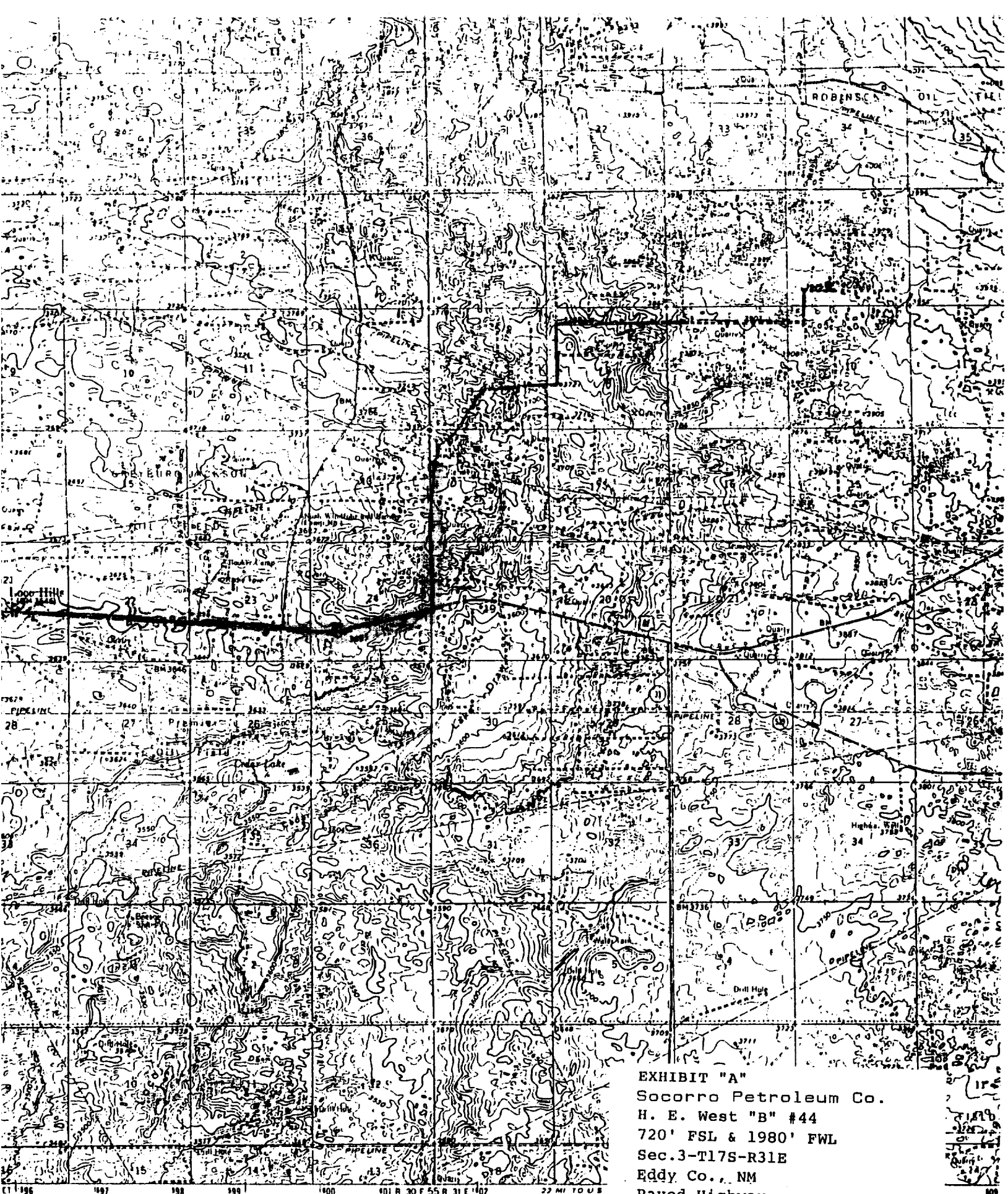
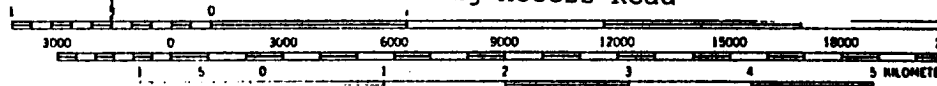
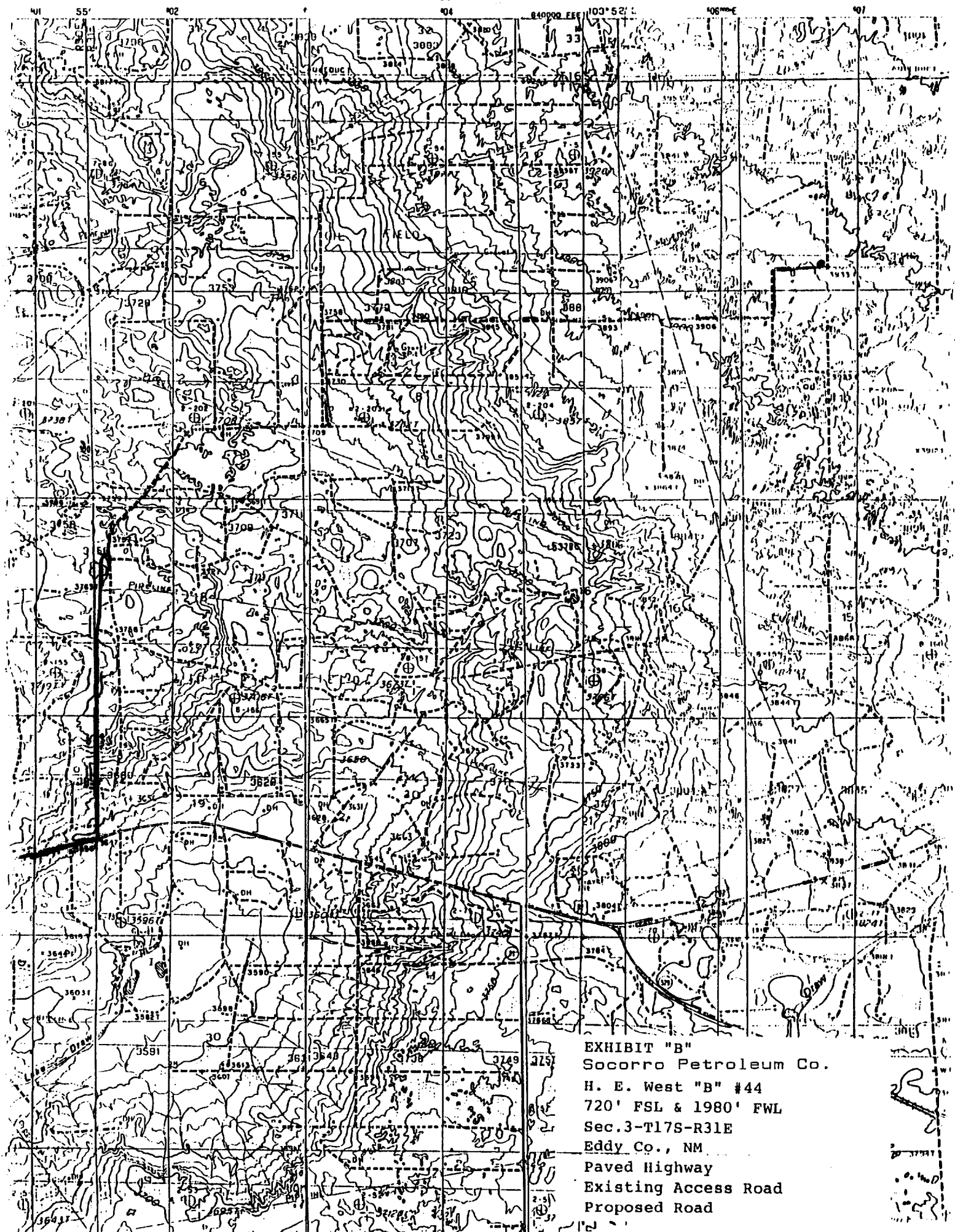


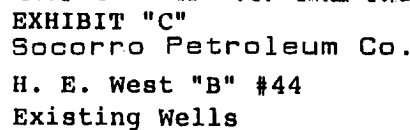
EXHIBIT "A"
 Socorro Petroleum Co.
 H. E. West "B" #44
 720' FSL & 1980' FWL
 Sec. 3-T17S-R31E
 Eddy Co., NM
 Paved Highway
 Existing Access Road

ed by the Geological Survey

ds from aerial photographs
 to survey 1961







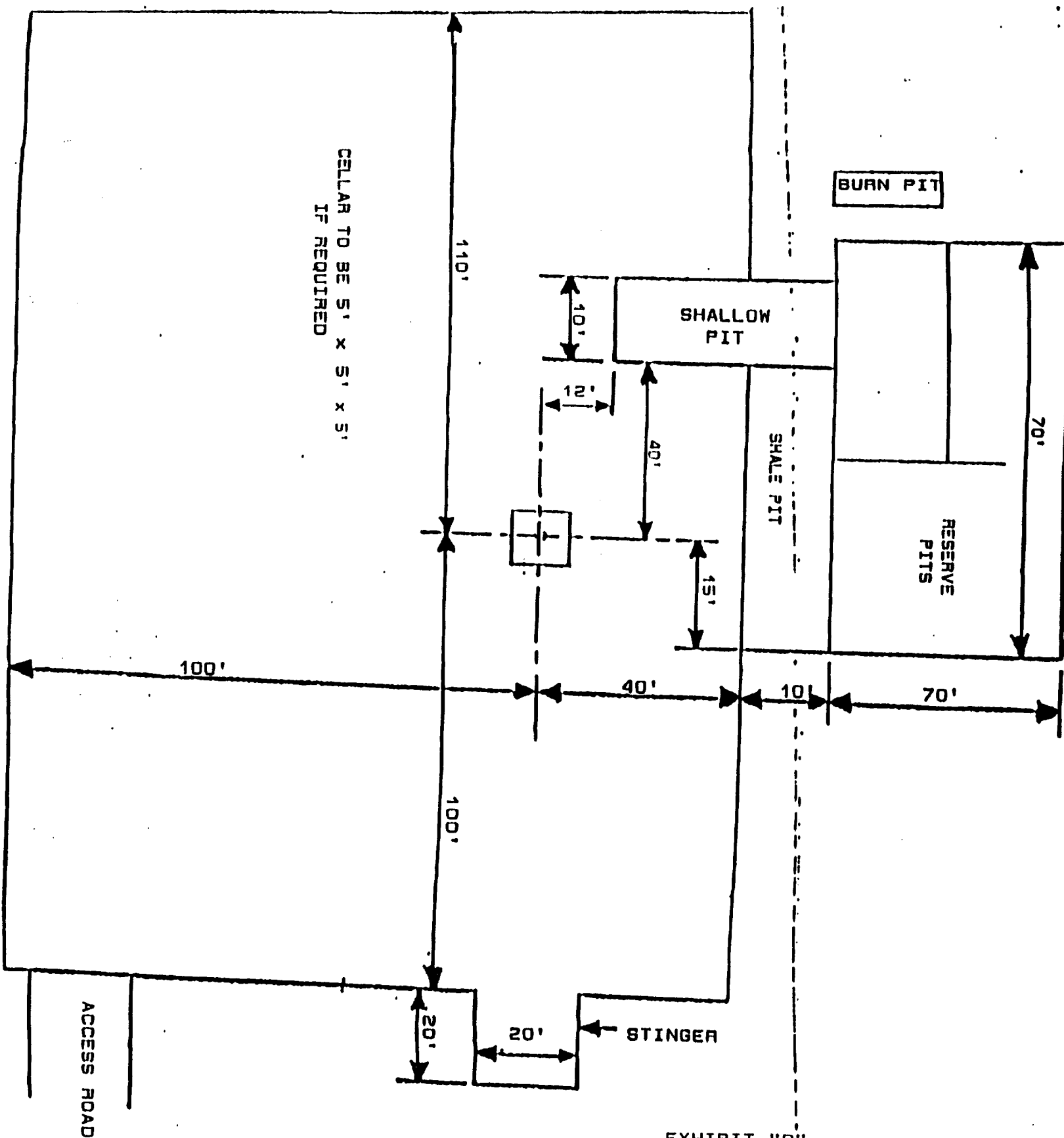
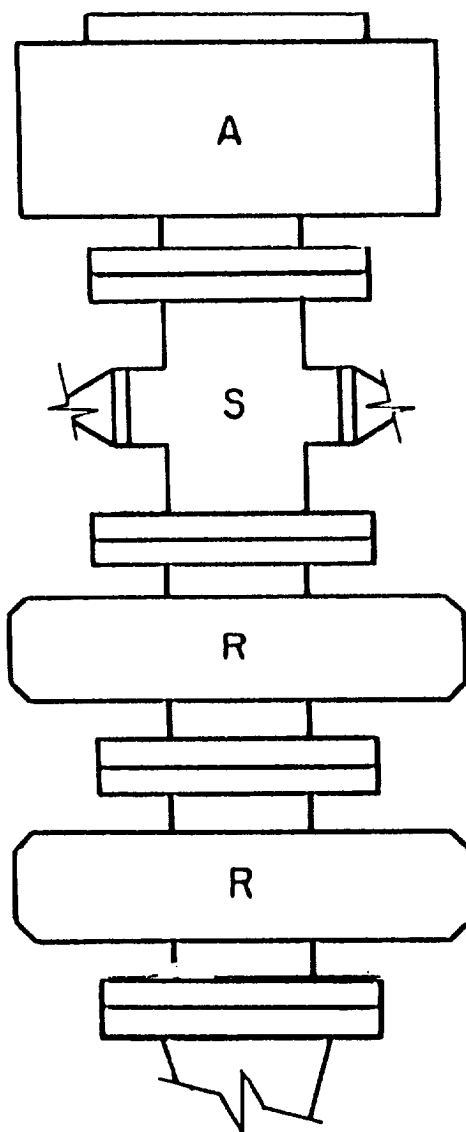


EXHIBIT "O"
 Socorro Petroleum Company
 H. E. West "B" #44
 Rig Layout



A - Rotating head

R - Blind and pipe
rams

EXHIBIT "E"
Socorro Petroleum Company
H. E. West "B" #44
BOP Diagram

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