

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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

Exxon Corporation ✓

3. ADDRESS OF OPERATOR

P. O. Box 1600, Midland, Texas 79702

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

At surface

2180' FSL and 1980' FEL of Section.

At proposed prod. zone

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

6 miles North from Carlsbad.

15. DISTANCE FROM PROPOSED*
LOCATION TO NEAREST 1980' lse. Line
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any) 460' drlg. line

16. NO. OF ACRES IN LEASE

2261.75

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

200' S. to #2

5000'

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

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

Rotary

22. APPROX. DATE WORK WILL START*

2nd Quarter 1983

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
26"	20"	94#	40'	25 sx Redi Mix (to surface)
17 1/2"	13 3/8"	54.5#	600'	500 sx (to surface)
11"	8 5/8"	24#	2500'	700 sx CIRCULATE surface csg.)
7 7/8"	5 1/2"	14,15.5#	5000'	700 sx CIRCULATE int. csg.)

RECEIVED

JUN 10 1983

OIL & GAS

ROSWELL, NEW MEXICO

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

Charlotte X. Kasper
for Melba Knippling

TITLE

Unit Head

DATE June 9, 1983

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

James A. Gillham

TITLE

ADM, MINERALS

DATE July 7, 1983

CONDITIONS OF APPROVAL, IF ANY:

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED

State Law No. _____

WELL LOCATION AND ACREAGE DEDICATION PLAT

Federal Law No. _____

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

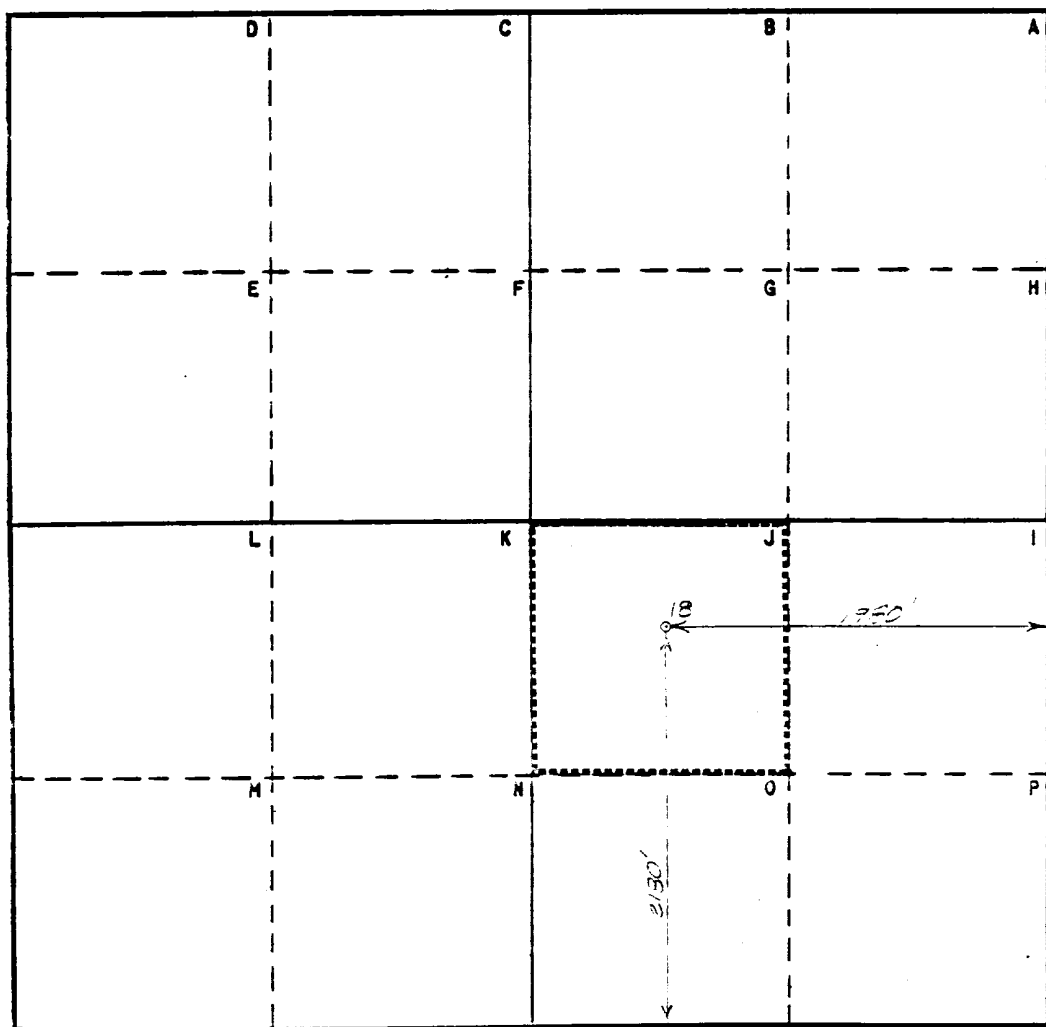
Operator Exxon Corporation		Lease Yates Federal "C" Federal		Well No. 18	
Unit Letter X J	Section 31	Township 20S	Range 28E	County Eddy	
Actual Footage Location of Well: 2180 feet from the South line and 1780 feet from the East line					
Ground Level Elev:	Producing Formation Delaware		Pool Avalon - Delaware		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 Commission.



CERTIFICATION

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

Name

Charlotte Kruper

Position

UNIT HEADCompany **Exxon Corporation****Box 1600 Midland, Texas**

Date

6-1-85

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

5-21-85Registered Professional Engineer
and/or Land Surveyor

Certificate No.

6157

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0

10 POINT PLAN
Yates Federal C-18
Section 31, 20S, 28E
Eddy County, New Mexico
May 9, 1983

1. The geologic name of the surface formation: Recent

2. The estimated tops of important geologic markers:

Delaware Mt. Grp. : 2500'
Bone Spring : 4700'

3. The estimated depths at which anticipated water, oil, gas, or other mineral bearing formations are expected to occur:

Deepest FW : 500'
Oil
Bone Spring : 4700'

4. Proposed casing program:

<u>STRING</u>	<u>SIZE</u>	<u>WEIGHT/GRADE</u>	<u>CONDITION</u>	<u>DEPTH INTERVAL</u>
Conductor	20"	94#/H-40	New	0- 40'
Surface	13-3/8"	54.5#/K-55	New	0- 600'
Intermediate	8-5/8"	24#/K-55	New	0-2500'
Production	5-1/2"	14# & 15.5#/K-55	New	0-5000'

5. Minimum specifications for pressure control equipment:

- A. Wellhead equipment - Threaded type, 2000 psi WP for 13-3/8" x 8-5/8" x 5-1/2" casing program with 2-7/8" tubing hanger.
- B. Blowout preventers - Refer to attached drawings and lists of equipment titled "Type II-C" for description of BOP stacks and choke manifold.
- C. BOP control unit - Unit will be hydraulically operated and have at least two control stations.
- D. Testing - Upon installation, the Type II-C BOP's for the 13-3/8" surface casing and the 8-5/8" intermediate casing will be tested to a low pressure (200-300 psi) and to a high pressure of 2000 psi. Casing rams will be tested in a like manner. An operational test of the blowout preventers will be performed on each round trip, (but not more than once each day); the annular and pipe rams preventers will be closed on drill pipe and the blind rams will be closed while pipe is out of the hole.

6. Type and anticipated characteristics of drilling fluid:

<u>DEPTH INTERVAL</u>	<u>MUD TYPE</u>	<u>WEIGHT</u>	<u>FUNNEL VISC.</u>	<u>WL</u>	<u>pH</u>
0- 600	FW	8.4-8.8	25-30	--	10.5+
Surf-5000	Cut BW	8.8-9.5	30-32	--	10.5+

7. Auxiliary control equipment:

- A. Kelly cocks: Upper and lower installed on kelly.
- B. Safety valve: Full opening ball type to fit each type and size of drill pipe in use will be available on rig floor at all times. The valves will be in the open position for stabbing into drill pipe when kelly is not in the string.
- C. Trip tank: Will be installed after setting surface casing to insure that the hole is full of fluid and that the hole takes the proper amount of fluid on trips.
- D. Mud system monitor: Monitoring equipment and floats at the bit will not be used unless conditions dictate. A flow rate indicator will be installed after surface casing has been set.

8. Testing, logging and completion programs:

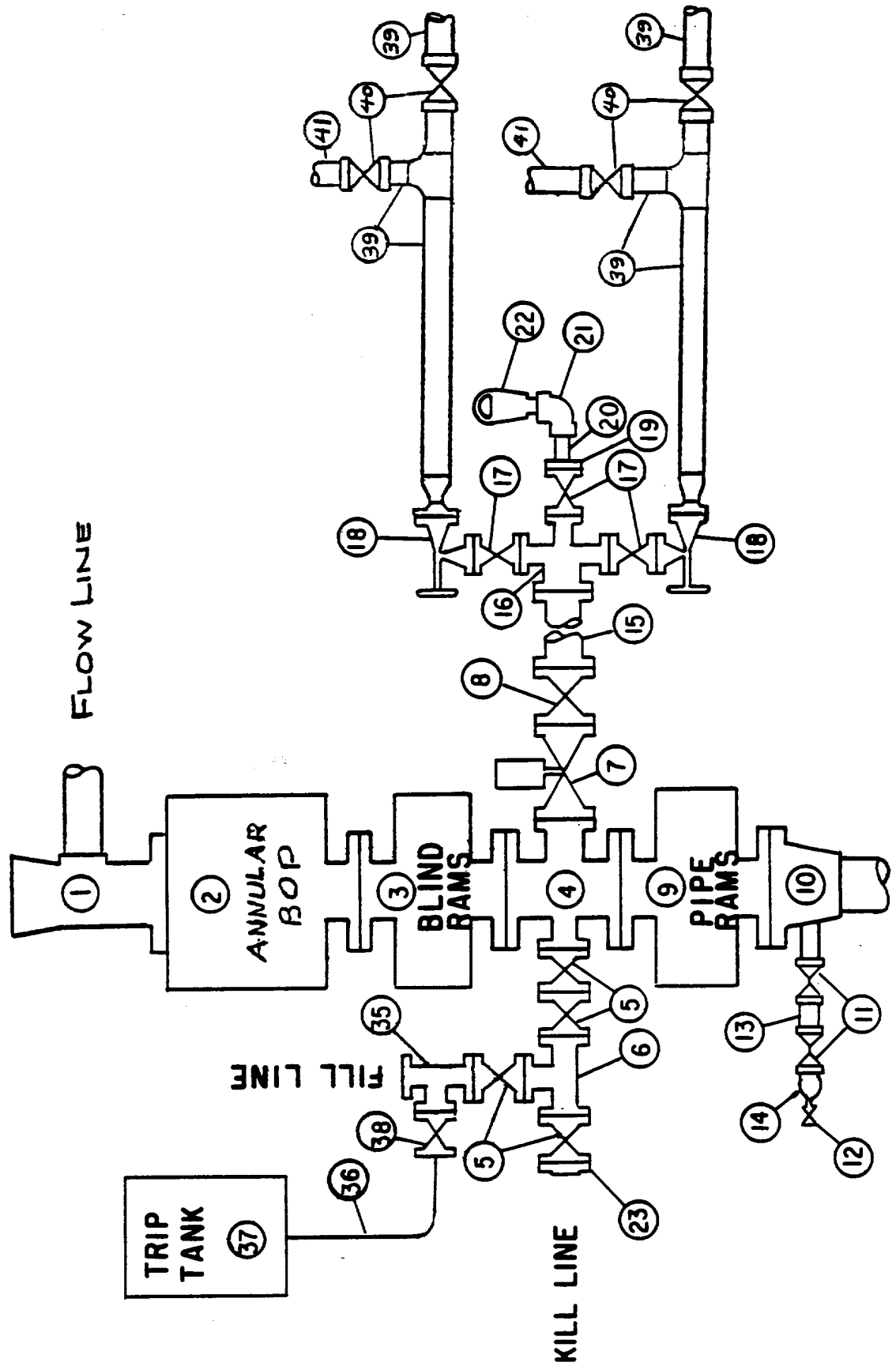
- A. Logging: Surface casing - TD GR - Sonic
Intermediate casing - TD FDC - CNL
Intermediate casing - TD DLL MSFL
- B. Proposed completion procedure: Spot acid across pay zone. Run GR-CCL and perforate. Acidize with 1500 gallons 15% gelled NE HCl.
- C. Production method: Run tubing anchor on 2-7/8" tubing and set above perforations. Produce by artificial lift.

9. Abnormal pressure and other possible hazards.

- A. No abnormal pressure is anticipated.
- B. No H₂S problem is expected.

10. It is anticipated that drilling and completion operations will begin during the Second Quarter of 1983.

MIDLAND DRILLING ORGANIZATION
BLOWOUT PREVENTER SPECIFICATION
TYPE II - C



**BLOWOUT PREVENTER SPECIFICATION
EQUIPMENT DESCRIPTION**

TYPE II-C

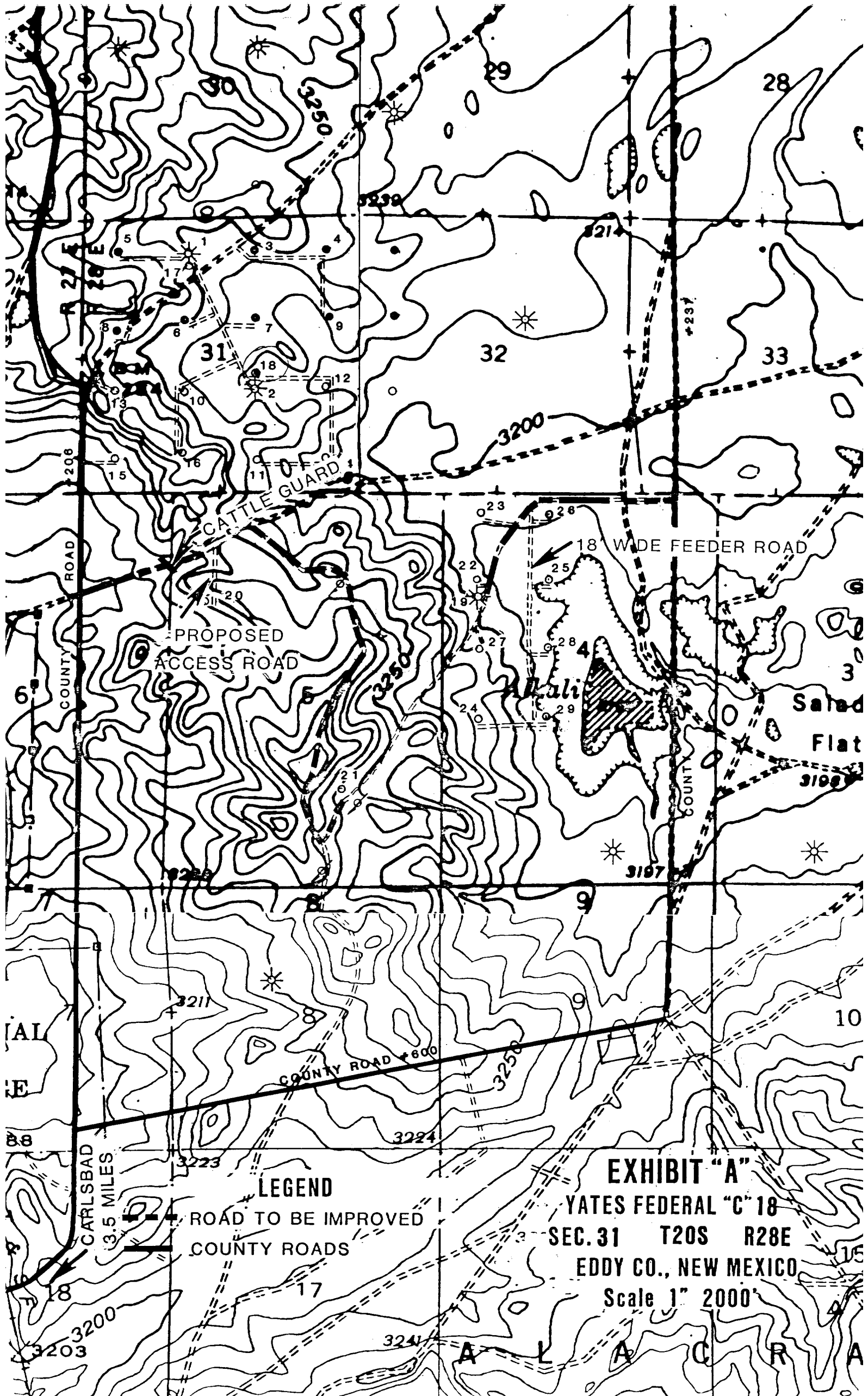
All equipment should be at least 2000 psi WP or higher unless otherwise specified.

1. Bell nipple.
2. Hydril or Shaffer bag type preventer.
3. Ram type pressure operated blowout preventer with blind rams.
4. Flanged spool with one 4-inch and one 2-inch (minimum) outlet.
5. 2-inch (minimum) flanged plug or gate valve.
6. 2-inch by 2-inch by 2-inch (minimum) flanged tee.
7. 4-inch pressure operated gate valve.
8. 4-inch flanged gate or plug valve.
9. Ram type pressure operated blowout preventer with pipe rams.
10. Flanged type casing head with one side outlet (furnished by Exxon).
11. 2-inch threaded (or flanged) plug or gate valve (furnished by Exxon).
Flanged on 5000# WP, threaded on 3000# WP or less.
12. Needle valve (furnished by Exxon).
13. 2-inch nipple (furnished by Exxon).
14. Tapped bull plug (furnished by Exxon).
15. 4-inch flanged spacer spool.
16. 4-inch by 2-inch by 2-inch by 2-inch flanged cross.
17. 2-inch flanged plug or gate valve.
18. 2-inch flanged adjustable choke.
19. 2-inch threaded flange.
20. 2-inch XXH nipple.
21. 2-inch forged steel 90° Ell.
22. Cameron (or equal.) threaded pressure gage.
23. Threaded flange.

35. 2-inch flanged tee.
36. 3-inch (minimum) hose. (Furnished by Exxon).
37. Trip tank. (Furnished by Exxon).
38. 2-inch flanged plug or gate valve.
39. 2-1/2-inch pipe, 300' to pit, anchored.
40. 2-1/2-inch SE valve.
41. 2-1/2-inch line to steel pit or separator.

NOTES:

1. Items 3, 4 and 9 may be replaced with double ram type preventer with side outlets between the rams.
2. The two valves next to the stack on the fill and kill line to be closed unless drill string is being pulled.
3. Kill line is for emergency use only. This connection shall not be used for filling.
4. Replacement pipe rams and blind rams shall be on location at all times.
5. Only type U, LWS and QRC ram type preventers with secondary seals are acceptable for 5000 psi WP and higher BOP stacks.
6. Type E ram-type BOP's with factory modified side outlets may be used on 3000 psi or lower WP BOP stacks.



27 E
28 E
COUNTY ROAD

AL
E
CARLSBAD
3.5 MILES

3200
3203

CATTLE GUARD

PROPOSED
ACCESS ROAD

WIDE FEEDER ROAD

Saled
Flat

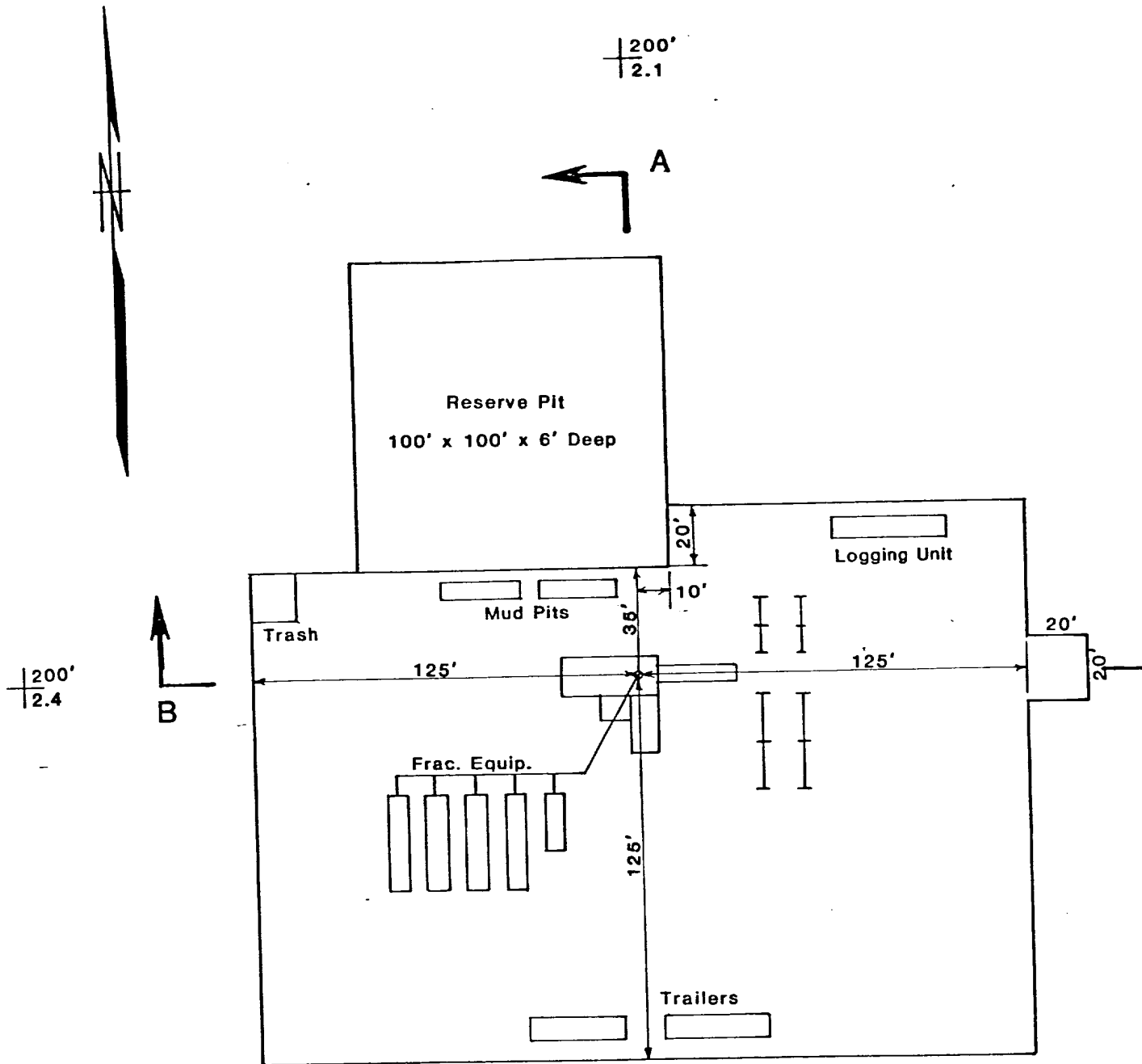
LEGEND

- ROAD TO BE IMPROVED
- COUNTY ROADS

EXHIBIT "A"

YATES FEDERAL "C" 18
SEC. 31 T20S R28E
EDDY CO., NEW MEXICO

Scale 1" 2000'



WELL SITE LAYOUT

Scale: 1" = 50'



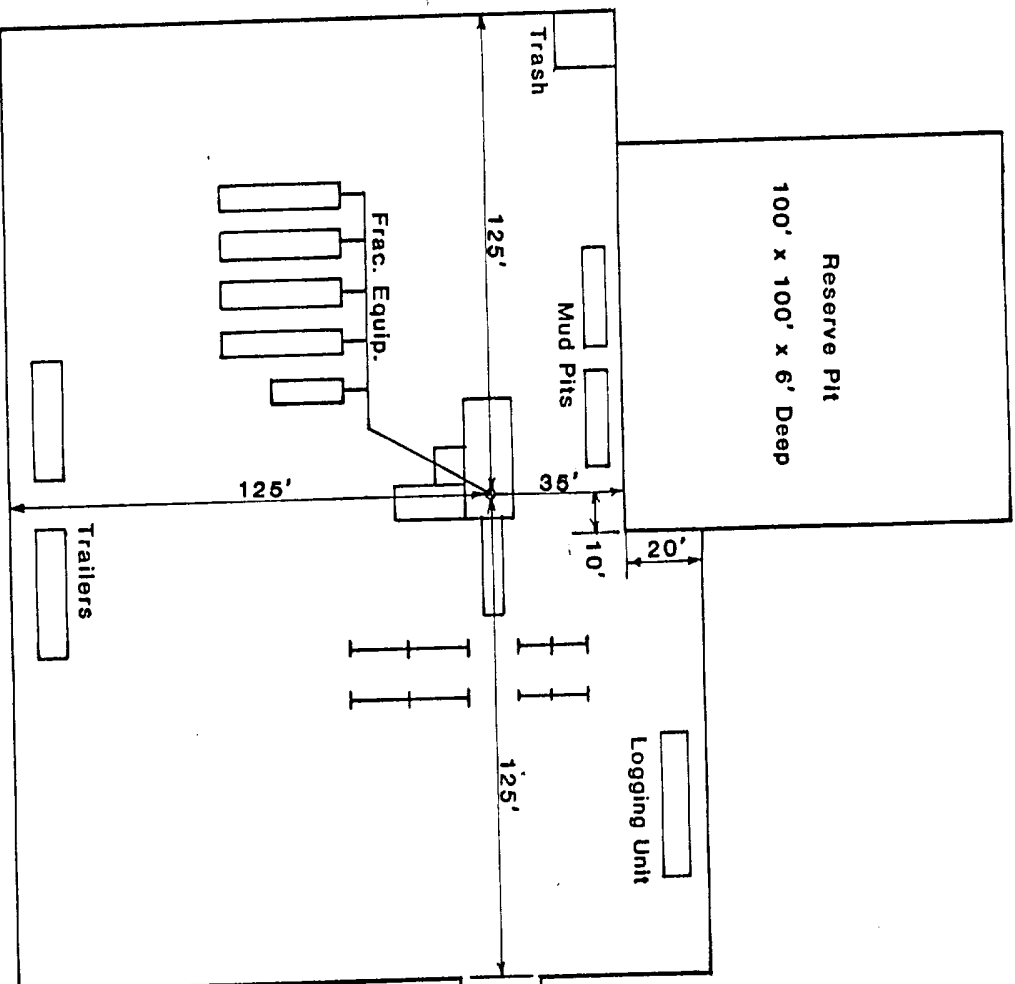
200'
2.4

V-DOOR EAST

200'
2.1



200'
2.4



WELL SITE LAYOUT

Scale: 1" = 50'

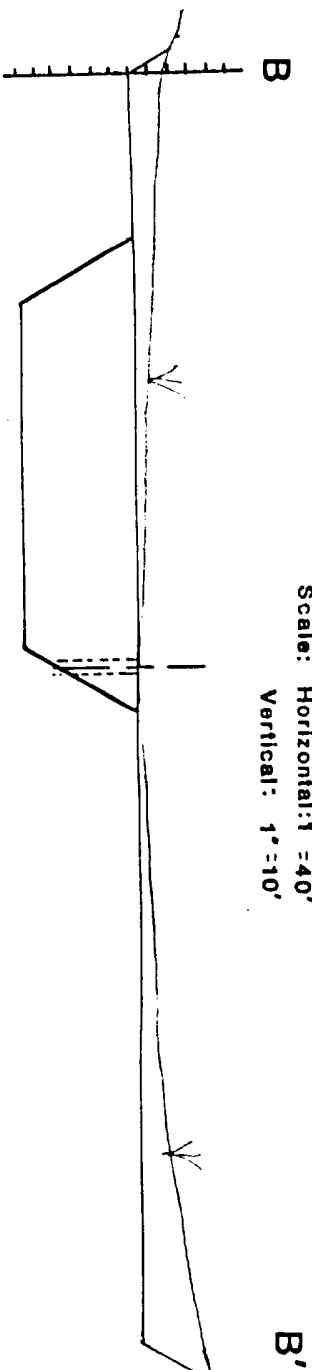


200'
2.4

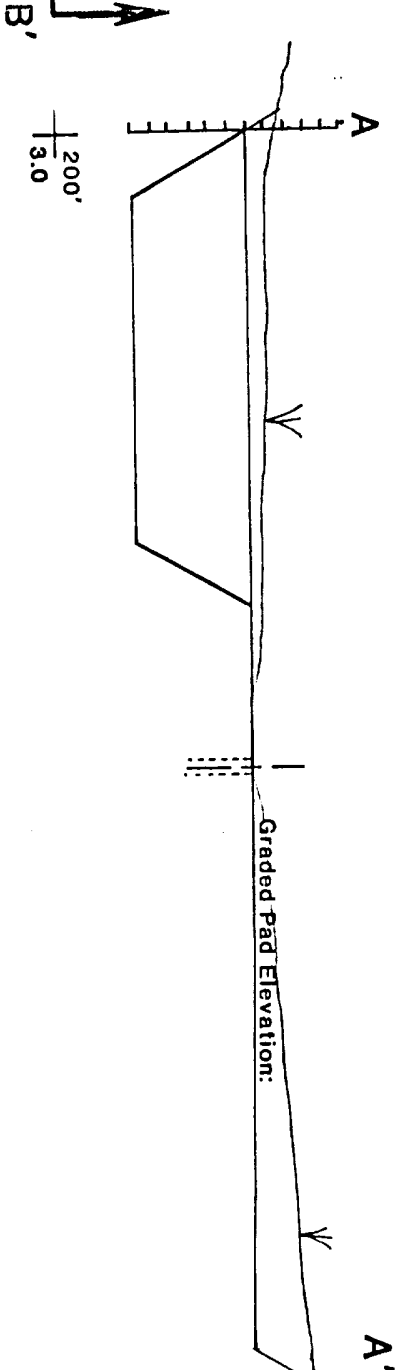
V-DOOR EAST

CROSS SECTIONS

Scale: Horizontal: 1" = 40'
Vertical: 1" = 10'



200'
3.0



YATES FEDERAL "C" 18			EXXON COMPANY, U.S.A. (a division of Exxon Corporation)		
SEC. 31 T20S R28E			PRODUCTION DEPARTMENT		
EDDY CO., NEW MEXICO			EXHIBIT "B"		
DRAWN M. L. H.	ENCL. SECTION	REVISED	DATE 5/13/83	JOB NO.	FILE NO.
CHECKED	APPROVED		SCALE SHOWN		WB-1838 K

