

RECEIVED BY
SUBMIT IN TRIP. DATE*
(Other instructions on reverse side)
SEP 19 1984
O. C. D.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

30-015-25019
Form approved.
Budget Bureau No. 1004-0136
Expires August 31, 1985

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

GREAT WESTERN DRILLING COMPANY ✓

Curtis Mahanay
915-682-5241

3. ADDRESS OF OPERATOR

P. O. Box 1659, Midland, Texas 79702

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

At surface

660' FNL & 1980' FEL of Section

(NW 1/4 NE 1/4)

(Unit B)

At proposed prod. zone

same

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

24 air miles northeast of Carlsbad, NM

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drlg. unit line, if any)

660'

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,

OR APPLIED FOR, ON THIS LEASE, FT.

1650'

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

3418' G.L.

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8"	48#	380'	Sufficient to circulate
11 "	8 5/8"	24# & 32#	3700' 2400'	Sufficient to circulate
7 7/8"	4 1/2"	10.5# & 11.6#	9000'	200 sacks

Well location is within the Secretary's potash area but not within the potash enclave or the NMOCD R-111 area.

Pay zone will be selectively perforated and stimulated as needed for optimum production.

Attached are: 1. Well Location & Acreage Dedication Plat
2. Supplemental Drilling Data
3. Surface Use Plan

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

James A. Knaut
James A. Knaut

TITLE

Agent

DATE

August 1, 1984

(This space for Federal or State office use)

Approved by letter of 9-14-84

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

DATE

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED

*See Instructions On Reverse Side

**NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section

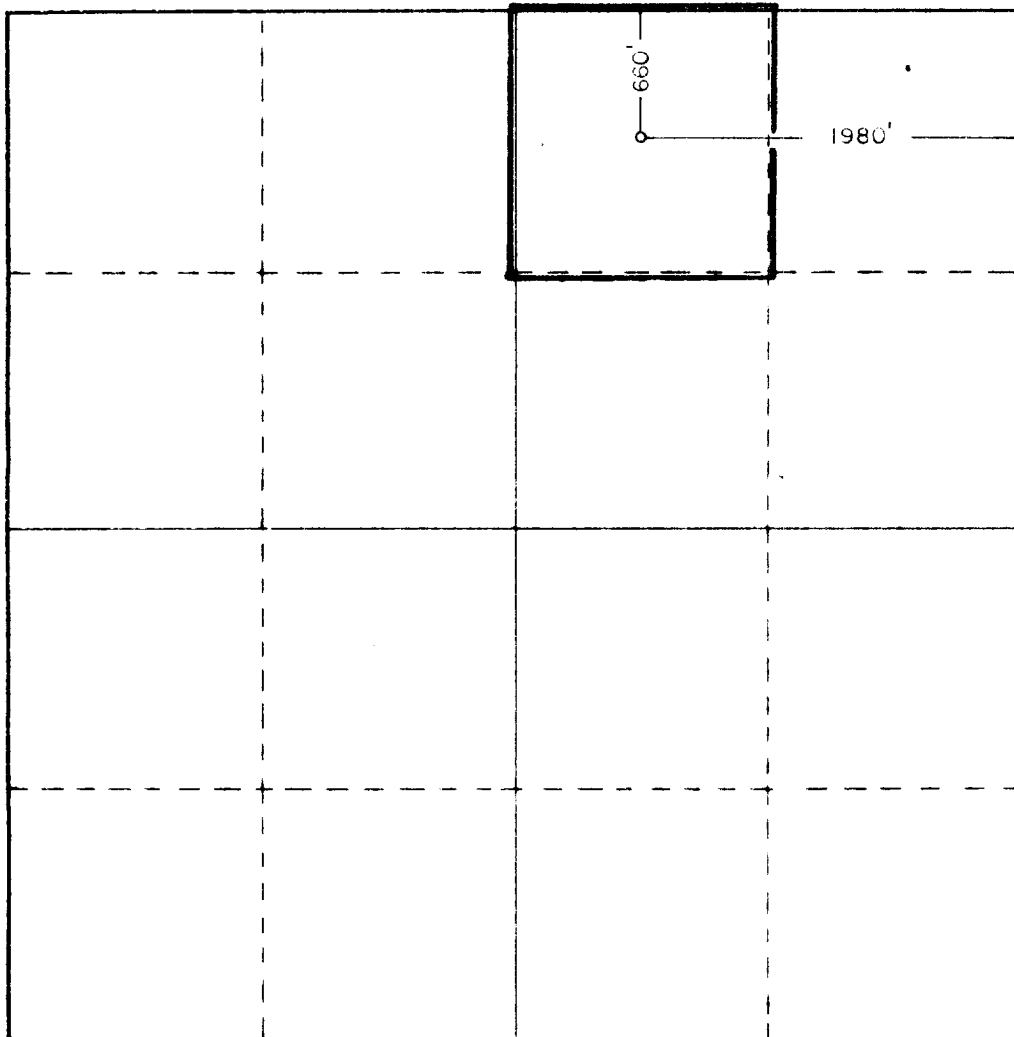
Operator GREAT WESTERN DRILLING CO.			Lease MABLE HALE FEDERAL			Well No. 3		
Unit Letter B	Section 11	Township 19 SOUTH	Range 30 EAST	County EDDY				
Actual Footage Location of Well: 660 feet from the NORTH line and 1980 feet from the EAST line								
Ground Level Elev. 3417.9	Producing Formation Bone Spring		Pool Benson - Bone Spring (Undes.)			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 _____
James A. Knauf

Position _____
Agent

Company _____
GREAT WESTERN DRILLING CO.

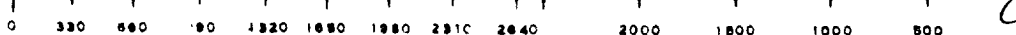
Date _____
July 31, 1984

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 _____
JULY 23, 1984

Registered Professional Engineer and/or Land Surveyor _____

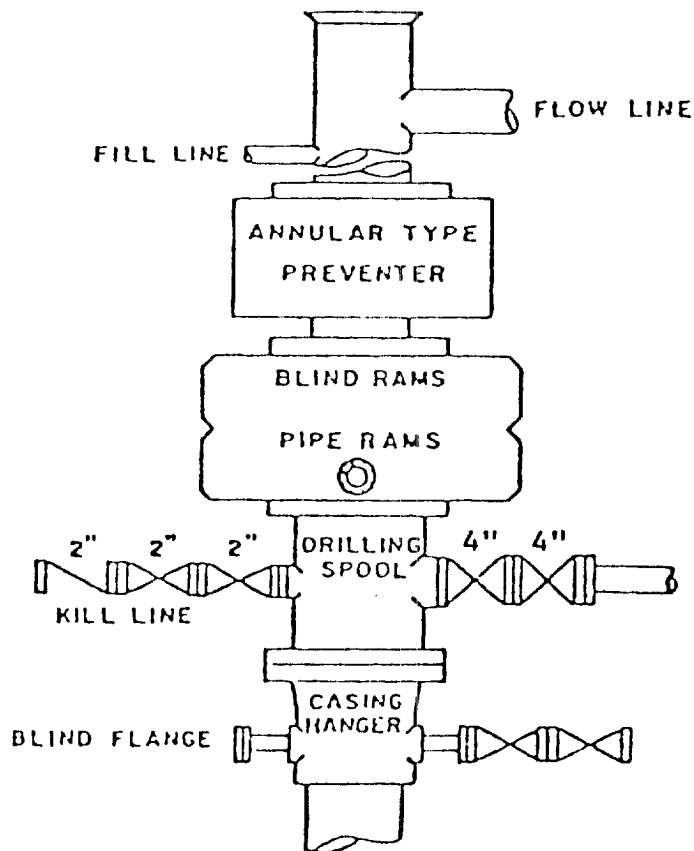
Certificate No. **JOHN W. WEST, 676**
RONALD J. EIDSON, 3239



BLOWOUT PREVENTER ARRANGEMENT

Great Western Drilling Company
Well #3 Mabel Hale Federal
NW $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 11-19S-30E

900 SERIES



SUPPLEMENTAL DRILLING DATA

GREAT WESTERN DRILLING COMPANY
WELL #3 MABEL HALE FEDERAL
660' FNL & 1980' FEL SEC. 11-19S-30E
EDDY COUNTY, NEW MEXICO

1. SURFACE FORMATION: Alluvial soils of Quaternary Age.

2. ESTIMATED GEOLOGIC TOPS:

Salt	420'	Delaware	5050'
Base Salt	1800'	Bone Spring	6020'
San Andres	3500'	2nd Bn. Spr. Sd.	8650'

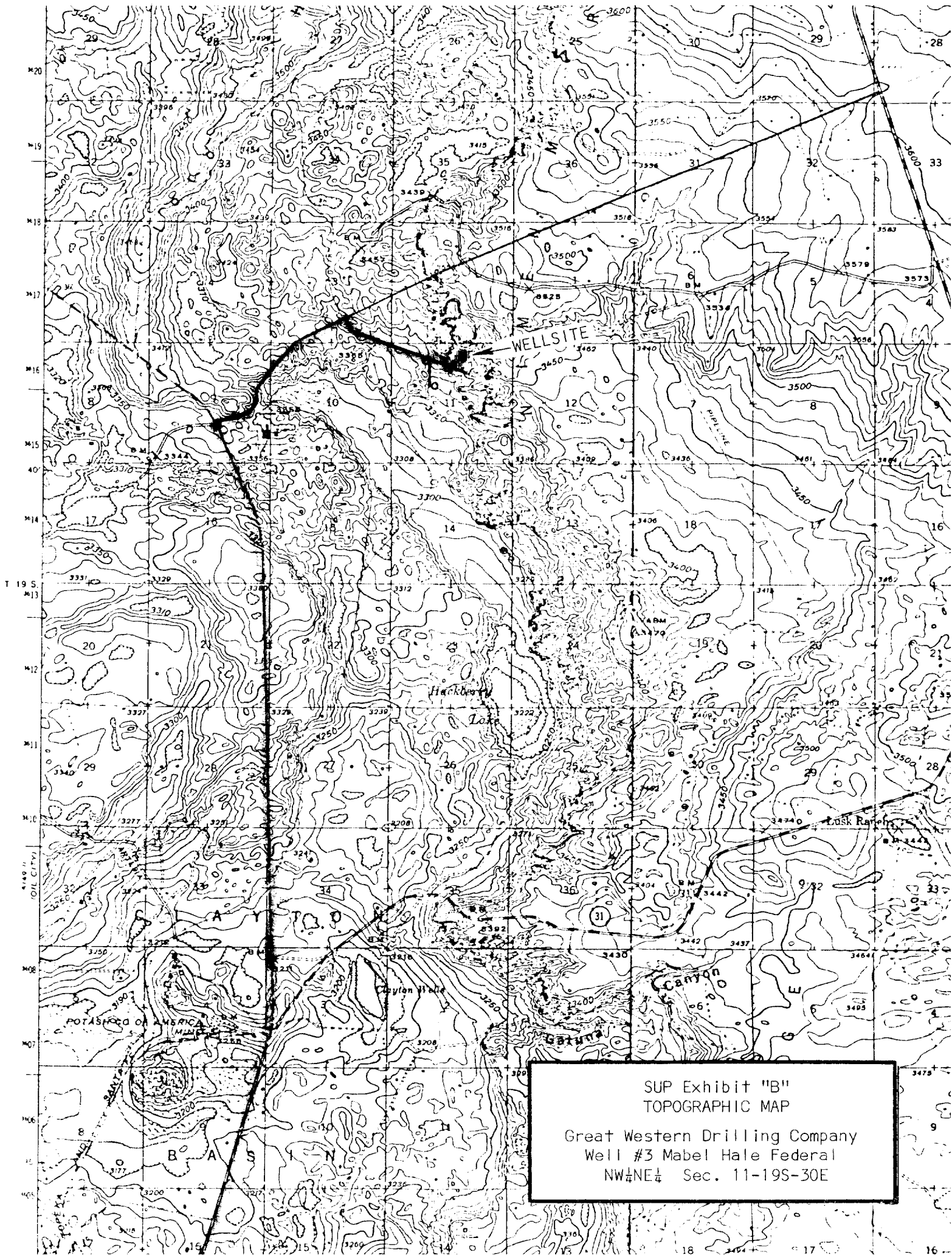
3. POSSIBLE WATER AND HYDROCARBON BEARING ZONES:

Fresh Water: Above 300'
Oil: Bone Spring

4. PROPOSED CASING PROGRAM:

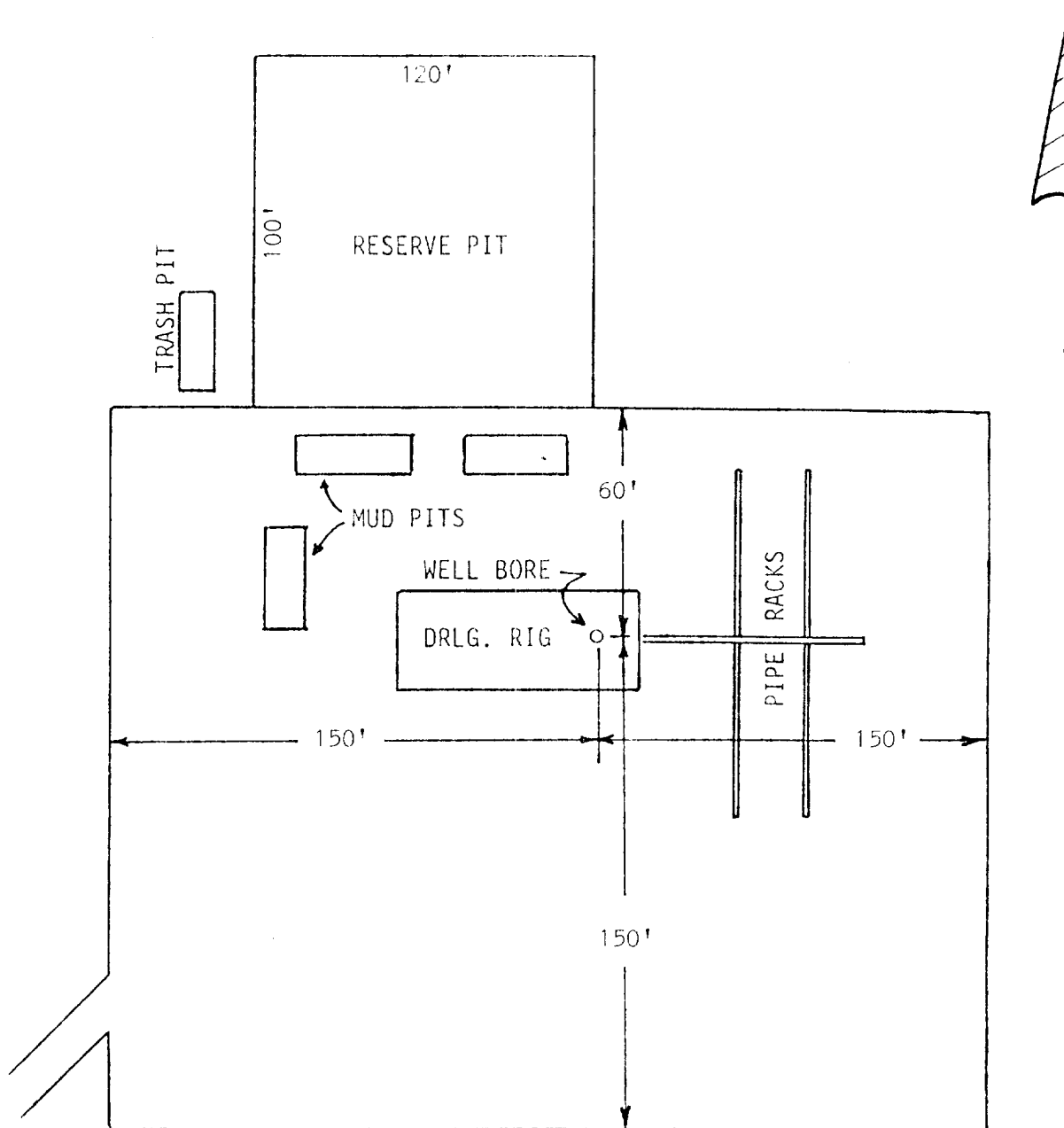
<u>Size</u>	<u>Interval</u>	<u>Weight</u>	<u>Grade</u>	<u>Joint</u>
13 3/8"	0 - 380'	48.0#	H-40	STC
8 5/8"	0 - 2300'	24.0#	K-55	STC
4 1/2"	0 - 400'	11.6#	K-55	LTC
	400 - 1800'	11.6#	K-55	STC
	1800 - 6500'	10.5#	K-55	STC
	6500 - 8700'	11.6#	K-55	STC
	8700 - 9000'	11.6#	N-80	LTC

5. PRESSURE CONTROL EQUIPMENT: Blowout preventer stack will consist of an annular-type preventer and two ram-type preventers with 3000 psi working pressure. A sketch of BOP is attached.



SUP Exhibit "B"
TOPOGRAPHIC MAP

Great Western Drilling Company
Well #3 Mabel Hale Federal
NW¼NE¼ Sec. 11-19S-30E



SUP Exhibit "D"
 SKETCH OF WELL PAD
 Great Western Drilling Company
 Well #3 Mabel Hale Federal
 NW $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 11-19S-30E