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JAN 26 1984 UNITED STATES
DEPARTMENT OF THE INTERIOR

O. C. D. GEOLOGICAL SURVEY

NM OIL COND. SUBMIT IN PLICATE*
Artesia, NM 88400
(Include instructions on reverse side)Form approved.
Budget Bureau No. 42-R1425.

c/87

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

5. LEASE DESIGNATION AND SERIAL NO.

NM 0560353

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

MABLE HALE FEDERAL

9. WELL NO.

2

10. FIELD AND POOL OR WILDCAT

Undesignated Bone Springs

11. SEC., T., R., M., OR BLK.
AND SURVEY OR AREA

Sec. 11-19S-30E

12. COUNTY OR PARISH

Eddy

13. STATE

NM

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

860' FNL & 1650' FWL of Section

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)

860'

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,

OR APPLIED FOR, ON THIS LEASE, FT.

1168'

16. NO. OF ACRES IN LEASE

2160.32

19. PROPOSED DEPTH

9000' Bone Springs

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

20. ROTARY OR CABLE TOOLS

Rotary

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

3395' G.L.

22. APPROX. DATE WORK WILL START*

February 1, 1984

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'	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 NMOC R-111 area.

Post d WJ
JD-low L Book
2-3-84

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

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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

James A. Knauf

TITLE

Agent

DATE

January 10, 1984

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

'Orig. Sgd.' Earl R. Cunningham

TITLE

District Manager

DATE

JAN 25 1984

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED

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

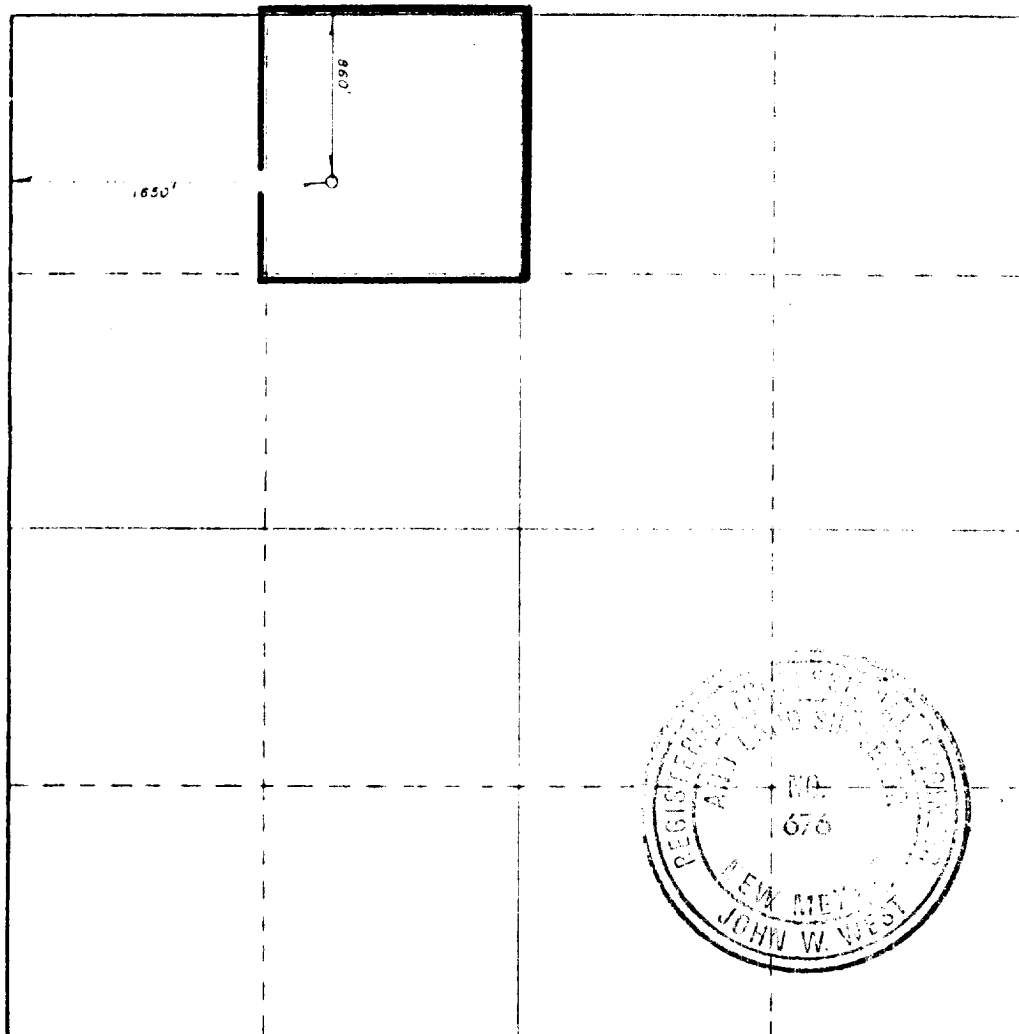
Operator GREAT WESTERN DRILLING CO.		Lease MABLE HALE FEDERAL		Well No. 2
Map Letter C	Section 11	Township 19 SOUTH	Range 30 EAST	County EDDY
Actual Footage Location of Well: 1650 feet from the WEST line and 860 feet from the NORTH line				
Ground Level Elev. 3395.4	Producing Formation Bone Springs	Tract Undesignated <i>Wildcat</i>	Section Acreage 40	

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 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.

James A. Knauf

James A. Knauf

Agent

GREAT WESTERN DRILLING CO.

January 10, 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

JANUARY 6, 1984

Registered Professional Engineer and Land Surveyor

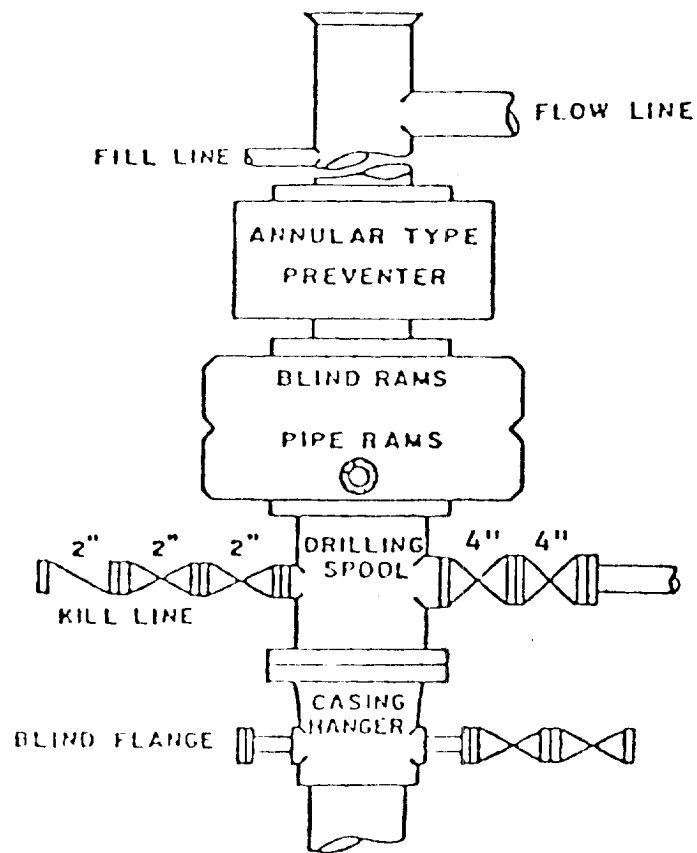
John W. West

Certificate No.

N.M. P.E. & L.S. NO. 676

BLOWOUT PREVENTER SKETCH
Great Western Drilling Company
Well #2 Mabel Hale Federal
NE $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 11-19S-30E

900 SERIES



SUPPLEMENTAL DRILLING DATA

GREAT WESTERN DRILLING COMPANY
WELL #2 MABEL HALL FEDERAL
860' FNL & 1650' FWL SEC. 11-19S-30E
EDDY COUNTY, NEW MEXICO

1. SURFACE FORMATION: Alluvial soils of Quaternary Age.

2. ESTIMATED GEOLOGIC TOPS:

Salt	420'	Bone Springs	6000'
Base Salt	1800'	3rd Bn. Spr. Sd.	9200'
San Andres	3550'	Wolfcamp Lm.	9700'

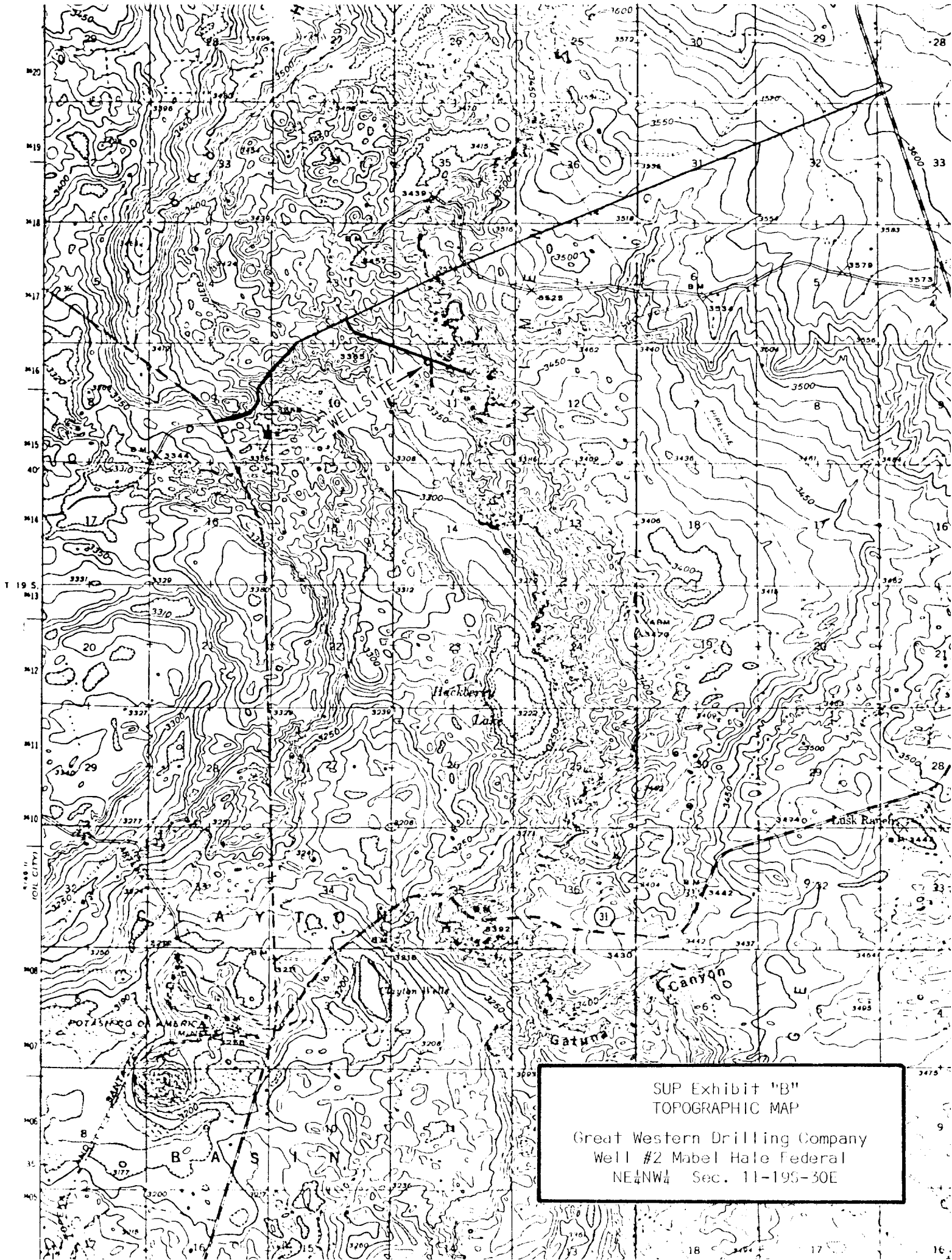
3. POSSIBLE WATER AND HYDROCARBON BEARING ZONES:

Fresh Water: Above 300'
Oil: Bone Springs

4. PROPOSED CASING PROGRAM:

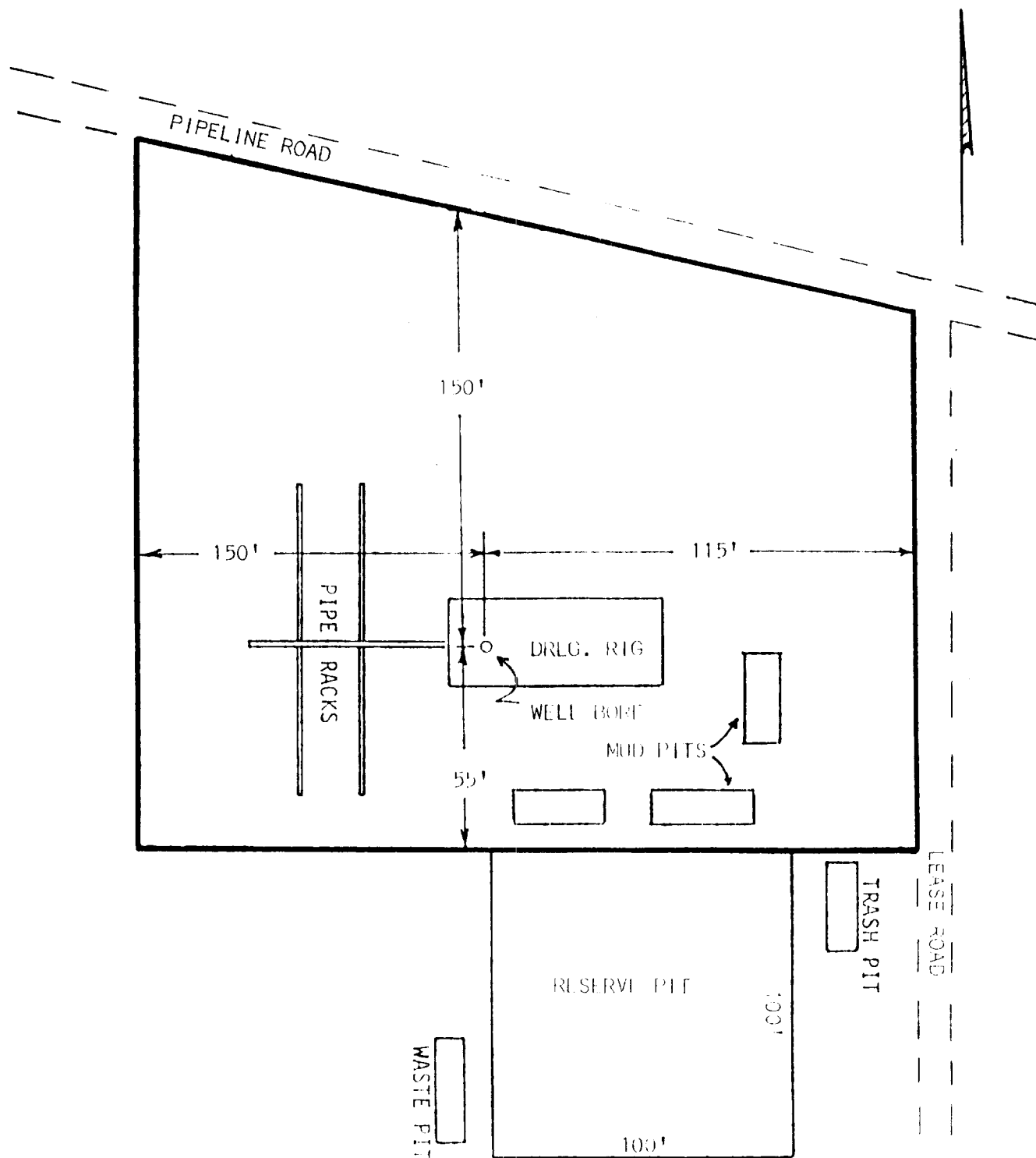
<u>Size</u>	<u>Interval</u>	<u>Weight</u>	<u>Grade</u>	<u>Joint</u>
13 3/8"	0 - 380'	48.0#	H-40	STC
8 5/8"	0 - 2300'	24.0#	K-55	STC
4 1/2"	0 - 400'	11.6#	K-55	LTC
	400 - 1800'	11.6#	K-55	STC
	1800 - 6500'	10.5#	K-55	STC
	6500 - 8700'	11.6#	K-55	STC
	8700 - 9000'	11.6#	N-80	LTC

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 #2 Mabel Hale Federal
NE 1/4 NW 1/4 Sec. 11-19S-30E



SUP Exhibit "D"
 SKETCH OF WELL PAD
 Great Western Drilling Company
 Well #2 Mabel Hale Federal
 NE $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 11-19S-30E

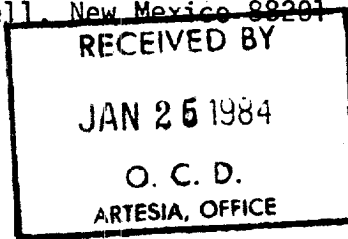


United States Department of the Interior

IN REPLY
REFER TO:

NM-0560353

BUREAU OF LAND MANAGEMENT
Roswell District Office
P. O. Box 1397
Roswell, New Mexico 88201



January 23, 1984

Great Western Drilling Co.
P. O. Box 1659
Midland, TX 79702

Gentlemen:

Your application for Permit to Drill well No. 2 Mable Hale Federal in the NE $\frac{1}{4}$ NW $\frac{1}{4}$, sec. 11, T. 19 S., R. 30 E., Eddy County, New Mexico, lease NM-0560353, to a depth of 9,000 feet to test the Bone Springs formation in the oil-potash area, is hereby approved as amended by stipulations attached to the application.

One copy of the application is returned herewith. Please notify the Bureau of Land Management office checked on the attached special stipulation, in sufficient time for a representative to witness all cementing operations.

Sincerely yours,

'Orig. Sgd.' Earl R. Cunningham
District Manager

Enclosure