

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*

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

GEORGE H. MITCHELL

3. ADDRESS OF OPERATOR

P. O. Box 963, Kermit, Texas 76745

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

At surface 400' FNL & 2310' FWL of Section

At proposed prod. zone
same

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

32 air miles south-southeast of Carlsbad, NM

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.

(Also to nearest dirg. unit line, if any)
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

400'

(400')

=990'

16. NO. OF ACRES IN LEASE

419.41

19. PROPOSED DEPTH

6000' Delaware

17. NO. OF ACRES ASSIGNED
TO THIS WELL

39.34

20. ROTARY OR CABLE TOOLS

Rotary

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

2870.2' G.L.

22. APPROX. DATE WORK WILL START*

April 15, 1986

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"	48.0#	± 350'	Sufficient to circulate
11"	*	*	± 2850'	*
7 7/8"	5 1/2"	14 & 15.5#	± 6000'	Circulate back into Salt Section or into 8 5/8" casing.

* A 11" hole will be drilled to ±2850' and if borehold conditions warrant, 8 5/8" (24 & 32#) intermediate casing will be run in the 11" hole and cemented back into the Salt Section.

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 TITLE Agent DATE March 21, 1986
(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY B. B. Putsche

TITLE Carlsbad Resource

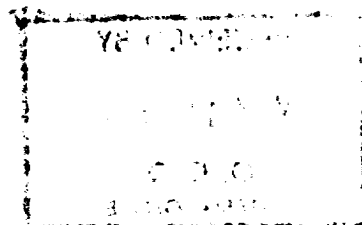
DATE 5-8-86

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 United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 11-65

All distances must be from the outer boundaries of the Section

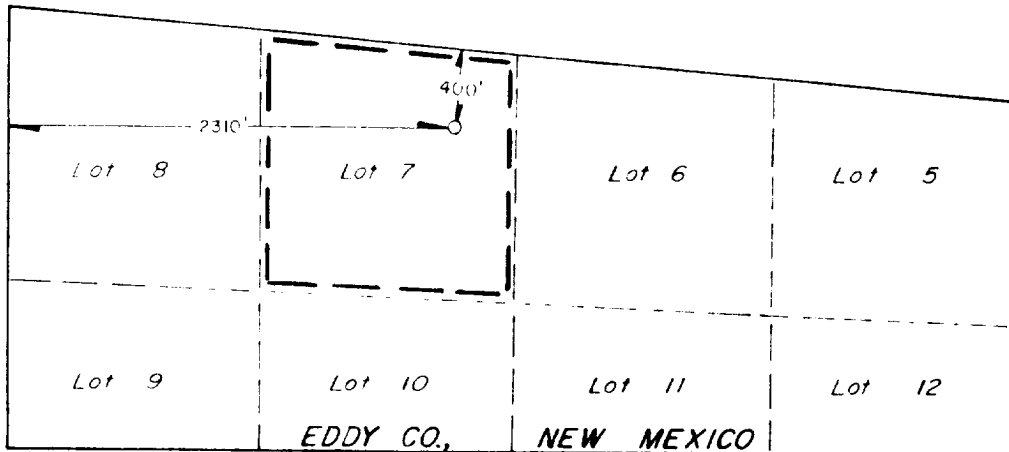
Operator GEORGE H. MITCHELL		Lease LITTLEFIELD BO FED.		Well No. 4
Unit Letter C	Section 34	Township 26 SOUTH	Range 29 EAST	County EDDY
Actual Footage Location of Well: 400 feet from the NORTH line and 2310 feet from the WEST line				
Ground Level Elev. 2870.2'	Producing Formation Delaware	Pool Brushy Draw - Delaware (Und.)	Dedicated Acreage: 39.34 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.



EDDY CO., NEW MEXICO
LOVING CO., TEXAS

SCALE: 1" = 1000'



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: GEORGE H. MITCHELL

Date: March 22, 1986

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: MARCH 19, 1986

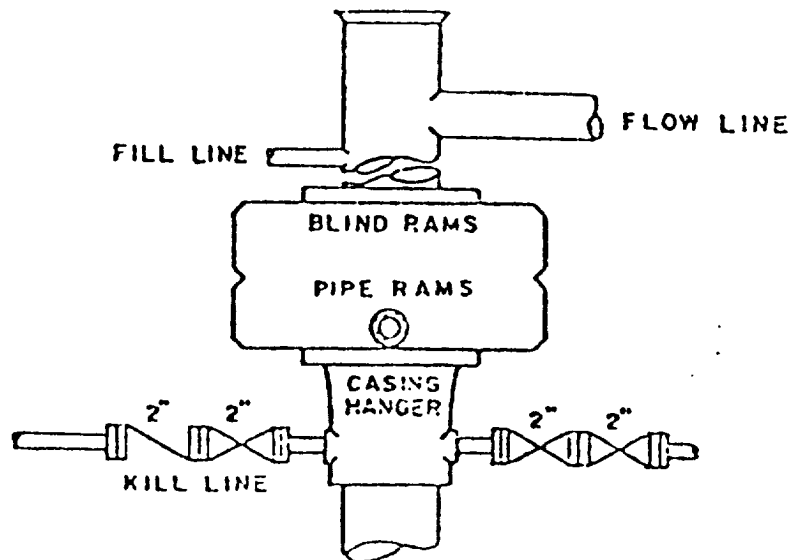
Registered Professional Engineer and/or Land Surveyor

Certificate No. JOHN W. WEST 676

Ronald J. Eidson 3239

BLOWOUT PREVENTER SKETCH

George H. Mitchell
Well #4 Littlefield BO Federal
400' FNL & 2310' FWL Sec. 34-26S-29E



SUPPLEMENTAL DRILLING DATA

GEORGE H. MITCHELL
WELL #4 LITTLEFIELD BO FEDERAL
NE $\frac{1}{4}$ NW $\frac{1}{4}$ SEC. 34-26S-29E
EDDY COUNTY, NEW MEXICO

1. SURFACE FORMATION: Unconsolidated soils of Quaternary Age.

2. ESTIMATED TOPS OF GEOLOGIC MARKERS (G.L. Elevation 2870'):

Anhydrite	280'	Cherry Canyon	3730'
Base Lower Salt	2630'	Brushy Canyon	5150'
Delaware Lime	2830'	Bone Springs	6700'
Delaware Sand	2860'		

3. POSSIBLE HYDROCARBON BEARING ZONES:

Bell Canyon: Oil & gas
Cherry Canyon: Oil
Brushy Canyon: Oil

4. CASING DESIGN:

<u>Size</u>	<u>Interval</u>	<u>Weight</u>	<u>Grade</u>	<u>Joint</u>
13 3/8"	0 - 350'	48.0#	H-40	STC
8 5/8"	0 - 2400'	24.0#	J-55	STC
	2400 - 2850'	32.0#	J-55	STC
5 1/2"	0 - 5400'	14.0#	J-55	STC
	5400 - 6000'	15.5#	J-55	STC

5. PRESSURED CONTROL EQUIPMENT: Two Ram-Type Preventors. A sketch of BOP stack is attached.

6. CIRCULATING MEDIUM:

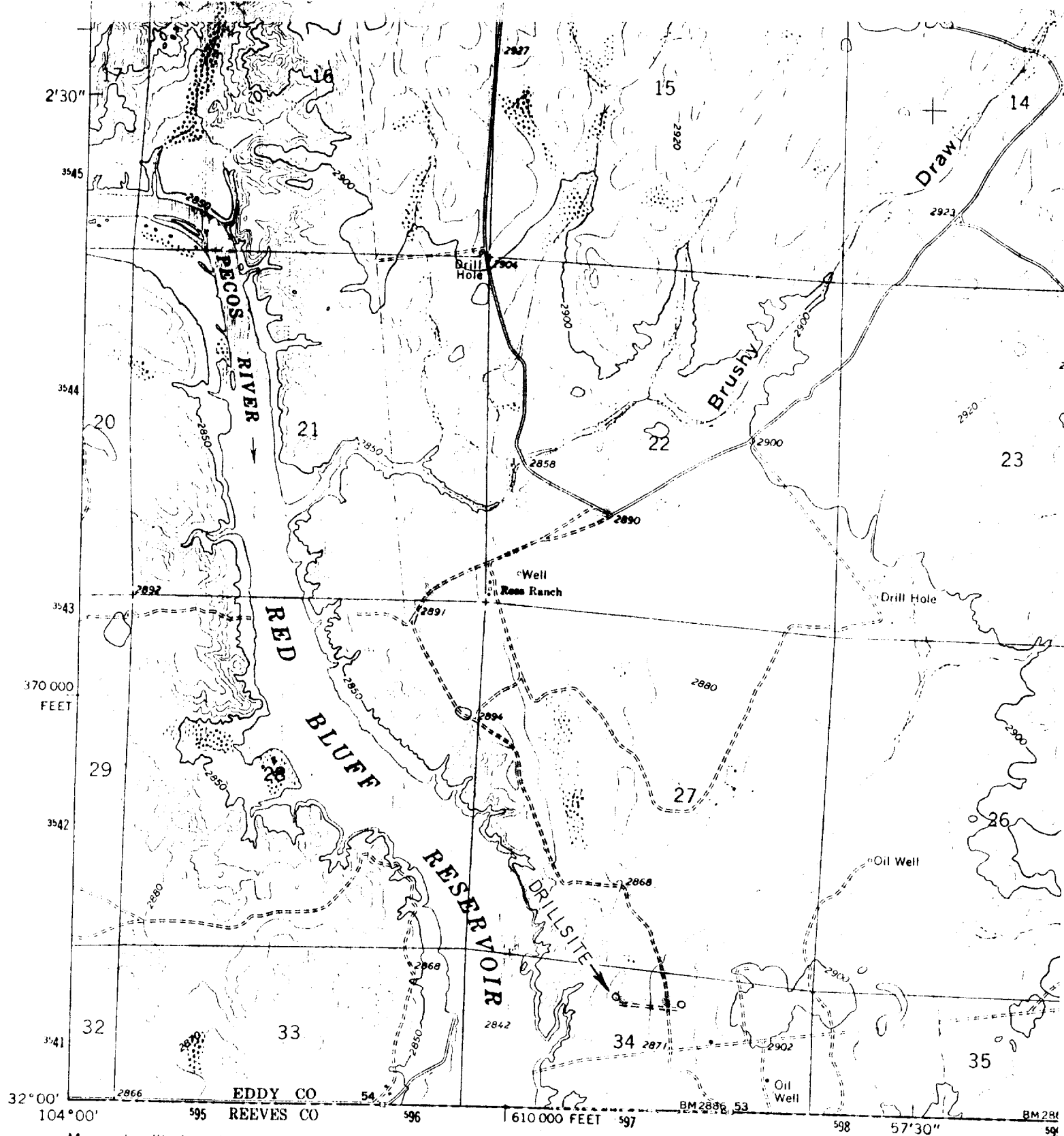
0 - 350' Fresh water with gel or lime as needed for viscosity.
350 - 2850' Brine
2850 - 6000' Cut brine conditioned as necessary for control of viscosity and water loss.

7. AUXILIARY EQUIPMENT: Drill string safety valve.

8. TESTING, LOGGING AND CORING PROGRAMS: No coring or DST's are planned. Electric logs will include a Compensated Neutron Log with Gamma Ray.

9. ABNORMAL PRESSURES, TEMPERATURES OR GASES: None anticipated.

10. ANTICIPATED STARTING DATE: It is planned that operations will commence about Apr. 15, 1986. Duration of drilling, completion and testing operations should be two to six weeks.



Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography by photogrammetric methods from aerial photographs taken 1967. Field checked 1968

Polycratic projection. 1927 North American datum
10,000-foot grid based on New Mexico coordinate system,
east zone

1000-meter Universal Transverse Mercator grid ticks,
zone 13, shown in blue

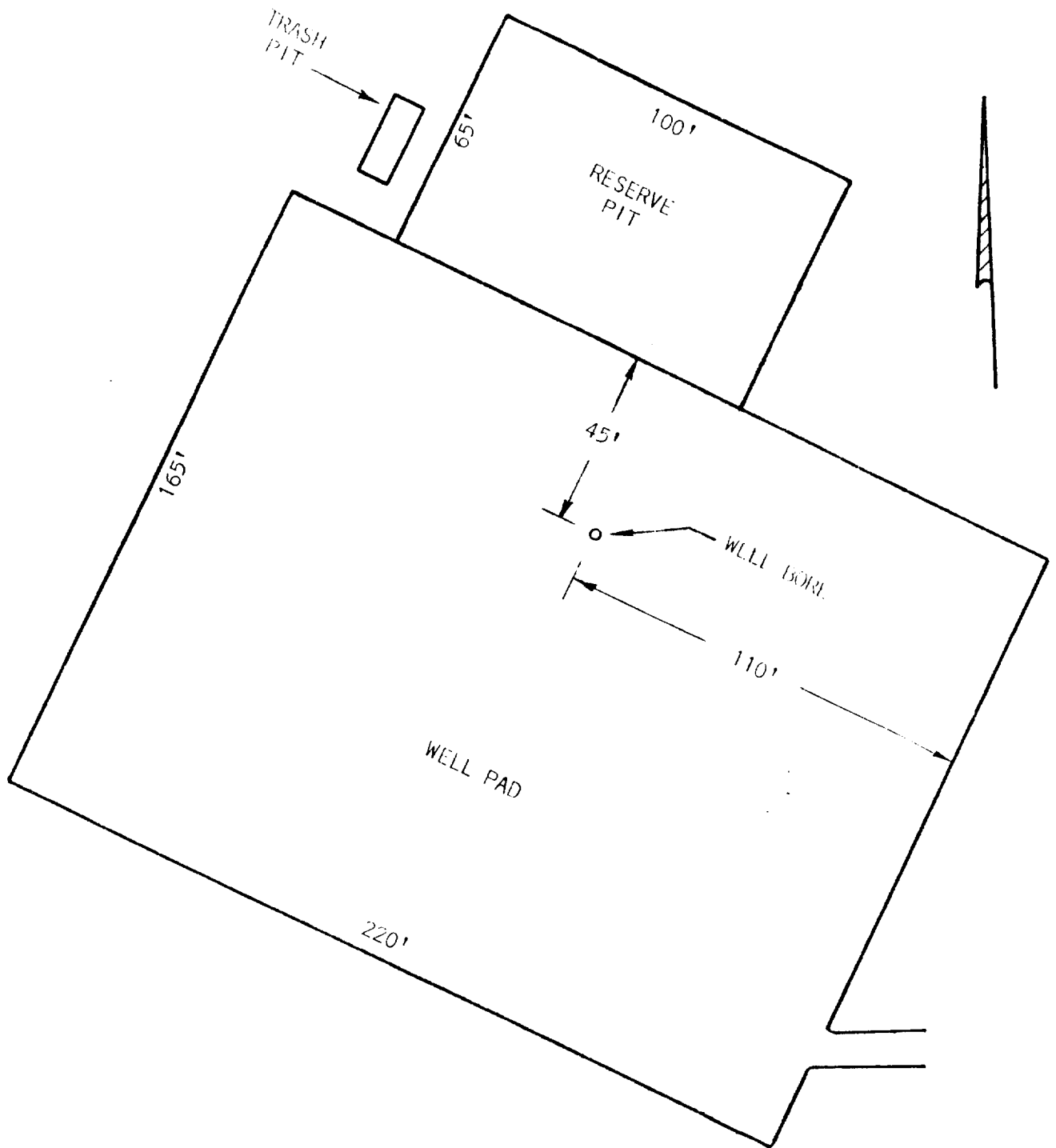
Fine red dashed lines indicate selected fence lines

SUP Exhibit "B"
TOPOGRAPHIC MAP

George H. Mitchell
Well #4 Littlefield BO Federal
400' FNL & 2310' FWL Sec. 34-26S-29E

UTM GRID AND 1968 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET

FOR SALE BY
A FC



SUP Exhibit "D"
SKETCH OF WELL PAD
George H. Mitchell
Well #4 Littlefield B0 Federal
400' FNL & 2310' FWL Sec. 34-26S-29E