

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

MITCHELL ENERGY CORPORATION ✓ (Attn: Mr. George Tullos)

(Phone 915-682-5396)

3. ADDRESS OF OPERATOR

1000 Gibraltar Savings Center, Midland, Texas 79701

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

At surface

660' FNL & 660' FEL of Sec. 20-6S-23E

NE $\frac{1}{4}$ NE $\frac{1}{4}$
Unit A

At proposed prod. zone

same

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

26 air miles north-northwest of Roswell, NM

15. DISTANCE FROM PROPOSED*

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

660'

16. NO. OF ACRES IN LEASE

1880

17. NO. OF ACRES ASSIGNED
TO THIS WELL

160

18. DISTANCE FROM PROPOSED LOCATION*

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

1320'

19. PROPOSED DEPTH

3500' Abo

20. ROTARY OR CABLE TOOLS

Rotary

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

4095' G.L.

22. APPROX. DATE WORK WILL START*

April 15, 1983

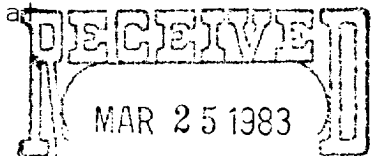
23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
26"	20"	94.0#	20'	Redi-mix
11"	8 5/8"	24.0#	1500'	Circulate to surface
7 7/8"	4 1/2"	10.5#	3500'	200 sacks

Pay zones will be selectively perforated and stimulated as need for optimum production.

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

RECEIVED
APR 18 1983
O. C. D.
ARTESIA, OFFICE



OIL & GAS
U.S. GEOLOGICAL SURVEY
ROSWELL, NEW MEXICO

Gas is dedicated.

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. Krauf

TITLE

Agent

DATE

March 24, 1983

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

Acting Asst. District Manager
for Minerals

DATE

4/14/83

CONDITIONS OF APPROVAL, IF ANY:

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

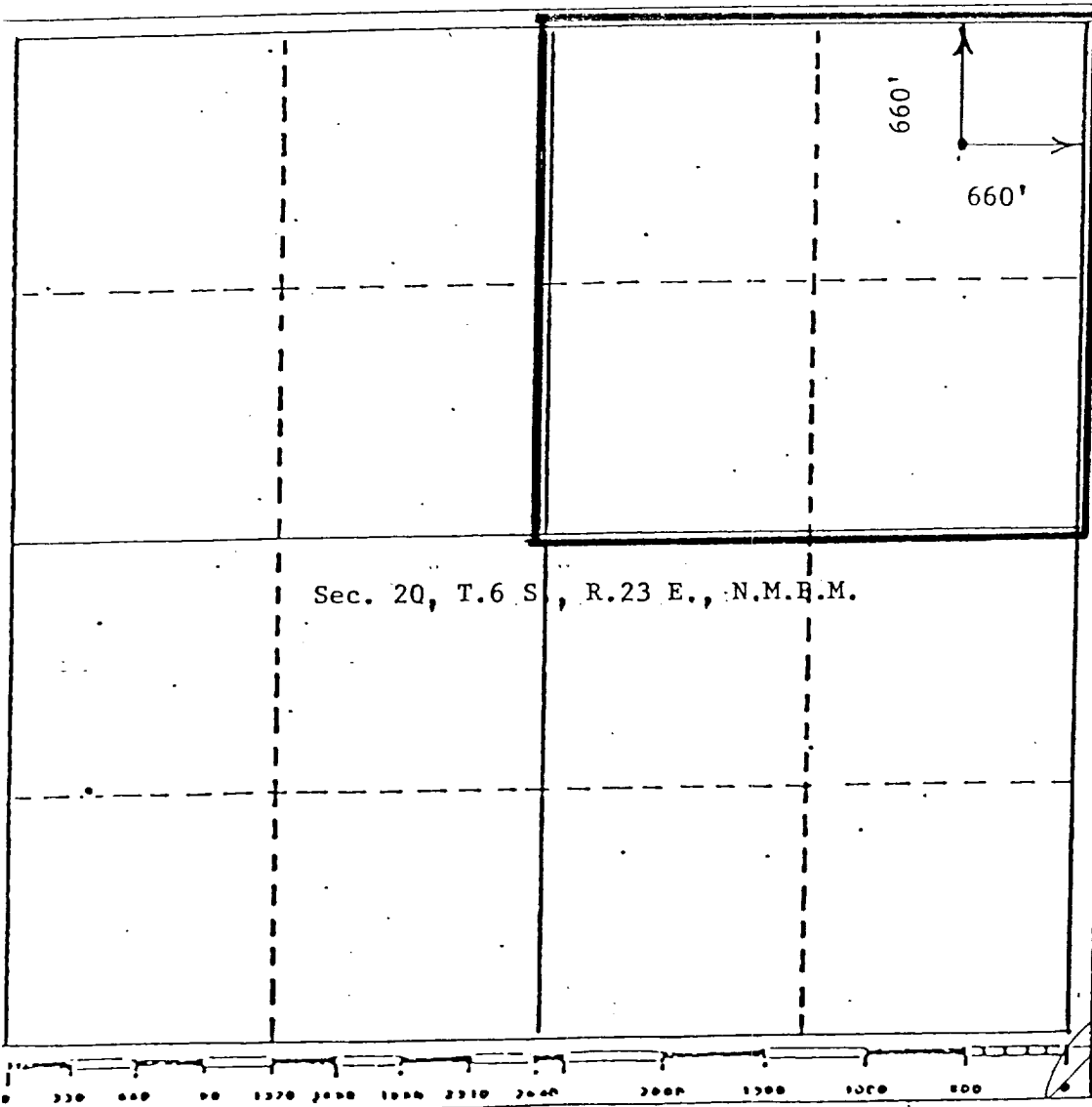
Operator Mitchell Energy Corporation			Lease M & M Federal		Well No. #4
Unit Letter A	Section 20	Township 6 South	Range 23 East	County Chaves	
Actual Postage Location of Well: 660 feet from the North line and 660 feet from the East line					
Ground Level Elev. 4095	Producing Formation Abo		Pool West Pecos Slope Abo (Ext.)		Dedicated Acres 160 Acres

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). Federal Oil & Gas lease NM-32324 is only lease involved.
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, force-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.

Name

James A. Knauf

Position

Agent

Company

MITCHELL ENERGY CORPORATION

Date

March 21, 1983

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 Signed

March 27, 1983

Registered Professional Engineer and/or Land Surveyor

John D. Jaques, E. & L.S.

Certificate No. 6290

SUPPLEMENTAL DRILLING DATA

MITCHELL ENERGY CORPORATION
WELL #4 M & M FEDERAL
NE $\frac{1}{4}$ NE $\frac{1}{4}$ SEC. 20-6S-23E
CHAVES COUNTY, NEW MEXICO

1. SURFACE FORMATION: Permian (Artesia Group).

2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

Glorietta	850'
Abo	2900'
Wolfcamp	3600'

3. ANTICIPATED POROSITY ZONES:

Water	150'
Gas	2950' - 3300'

4. CASING DESIGN:

<u>Size</u>	<u>Interval</u>	<u>Weight</u>	<u>Grade</u>	<u>Joint</u>
8 5/8"	0 - 1500'	24.0#	K-55	STC
4 1/2"	0 - 3500'	10.5#	K-55	STC

5. SURFACE CONTROL EQUIPMENT: An annular-type or a double ram-type BOP.

6. CIRCULATING MEDIUM: Hole will be drilled with air/foam or with mud as follows:

0' - 1500' Fresh water mud with gel added if needed for viscosity.

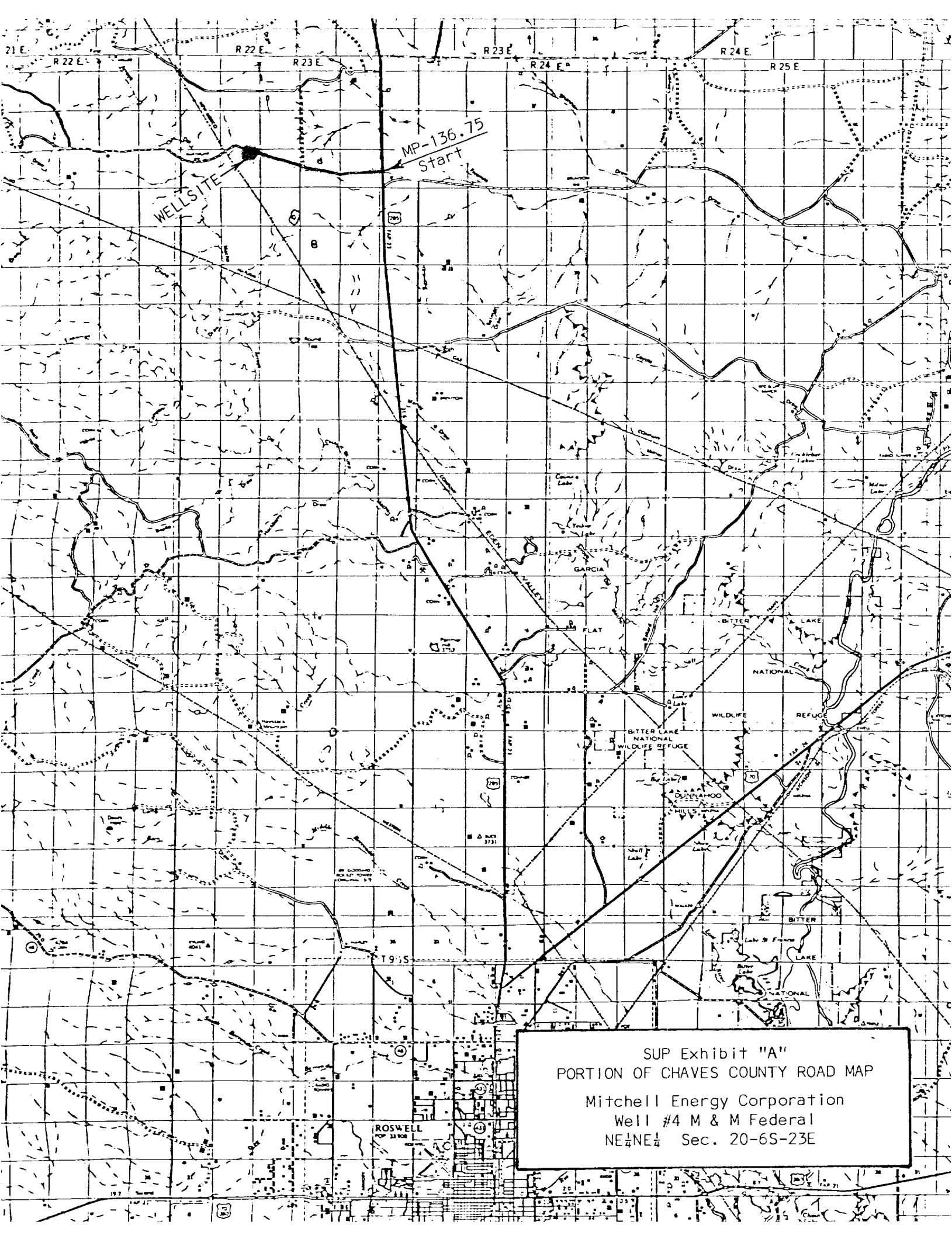
1500' - TD Fresh water mud, conditioned as necessary for control of viscosity and water loss.

7. AUXILIARY EQUIPMENT: Drill string safety valve.

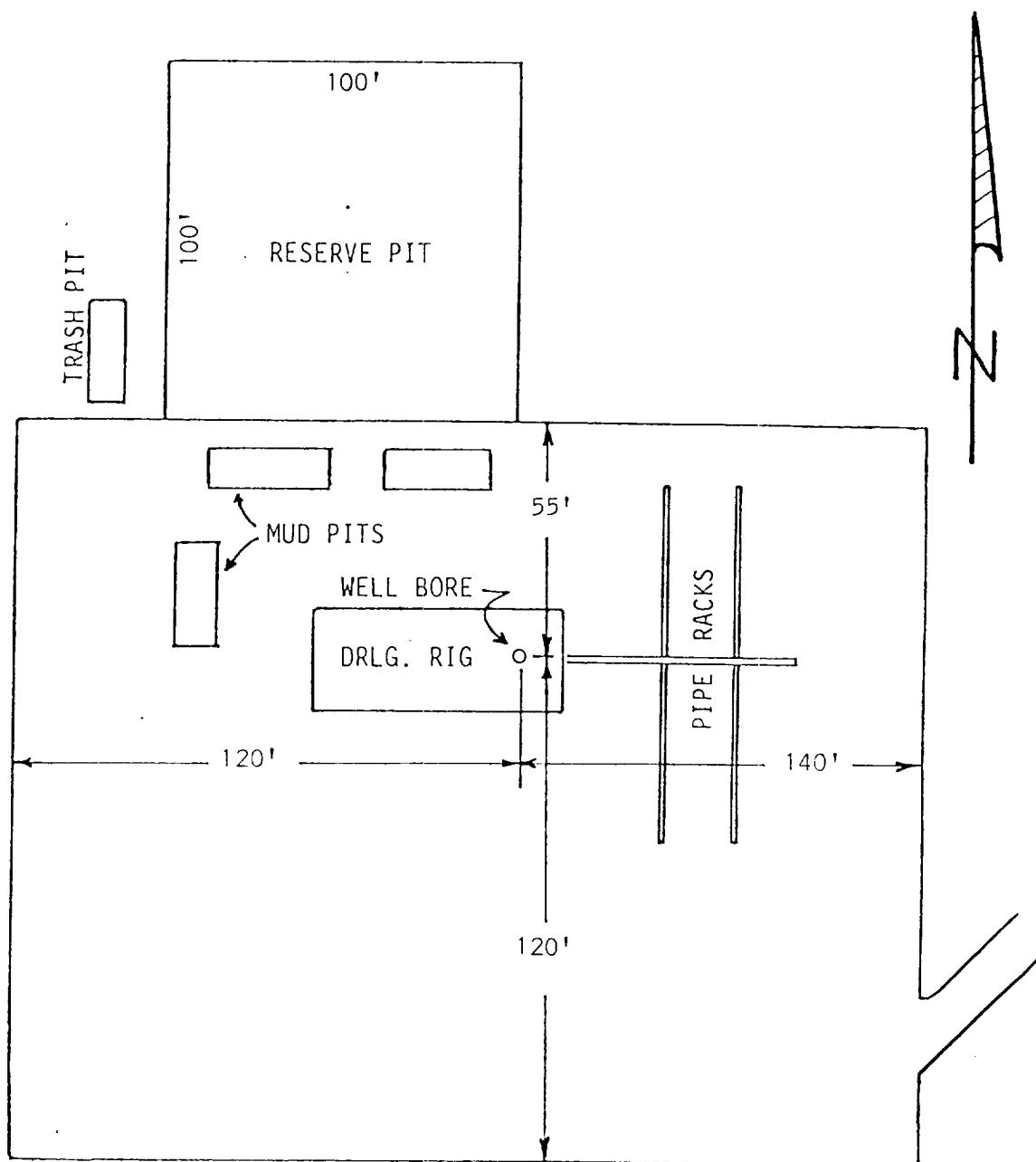
8. TESTING, LOGGING AND CORING PROGRAMS: No coring or DST's are planned. Electric logs will include a CNL/FDC log and a DLL/Micro SFL log.

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

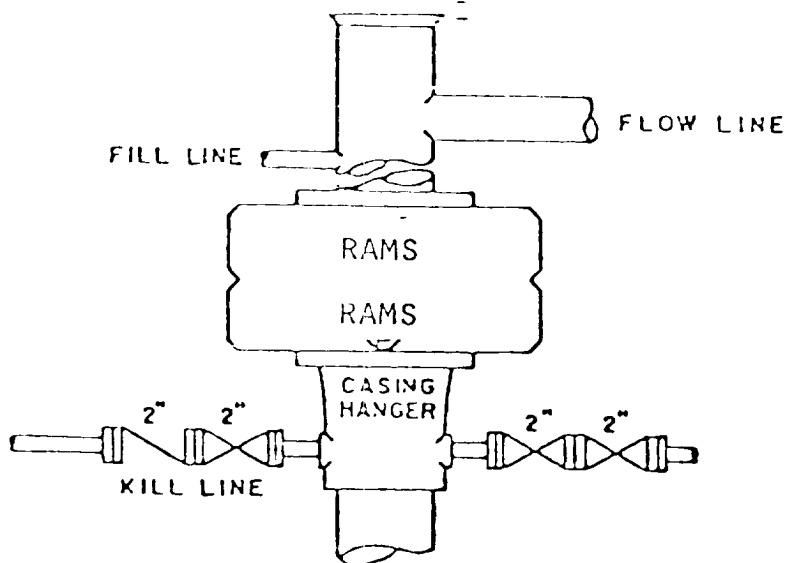
10. ANTICIPATED DATES: It is planned that drilling operations will commence about April 15, 1983. Duration of drilling, testing, and completion operations should be 7 to 28 days.



SUP Exhibit "A"
PORTION OF CHAVES COUNTY ROAD MAP
Mitchell Energy Corporation
Well #4 M & M Federal
NE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 20-6S-23E



SUP Exhibit "D"
 SKETCH OF WELL PAD
 Mitchell Energy Corporation
 Well #4 M & M Federal
 NE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 20-6S-23E



BOP STACK

BOP ARRANGEMENT