

Drawer DD
Artesia, NM

88210 UNITED STATES DEC 2 1982
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY O. C. D.
ARTESIA OFFICE

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

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 990' FNL & 660' FWL of Sec. 21-6S-23E
At proposed prod. zone Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
26 air miles north-northwest of Roswell, N. M.

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 990'

18. DISTANCE FROM PROPOSED* LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 2640'

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 4117 G.L.

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
26"	20"	94.0#	50'	Circulate to surface
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 needed for optimum production.

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

Gas is not 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. Knaut TITLE Agent DATE November 17, 1982

(This space for Federal or State office use) (Orig. Sgd.) GEORGE H. STEWART

PERMIT NO. NOV 30 1982 APPROVAL DATE

APPROVED BY TITLE DATE

CONDITIONS OF APPROVAL, IF ANY: DISTRICT SUPERVISOR

5. LEASE DESIGNATION AND SERIAL NO. NM-32324
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME M & M FEDERAL
9. WELL NO. 3
10. FIELD AND POOL, OR WILDCAT Undesignated Abo
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 21-6S-23E
12. COUNTY OR PARISH Chaves 13. STATE NM

17. NO. OF ACRES ASSIGNED TO THIS WELL 160

20. ROTARY OR CABLE TOOLS Rotary

22. APPROX. DATE WORK WILL START* November 29, 1982

Printed a p. 1
10-12-82
12-3-82

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

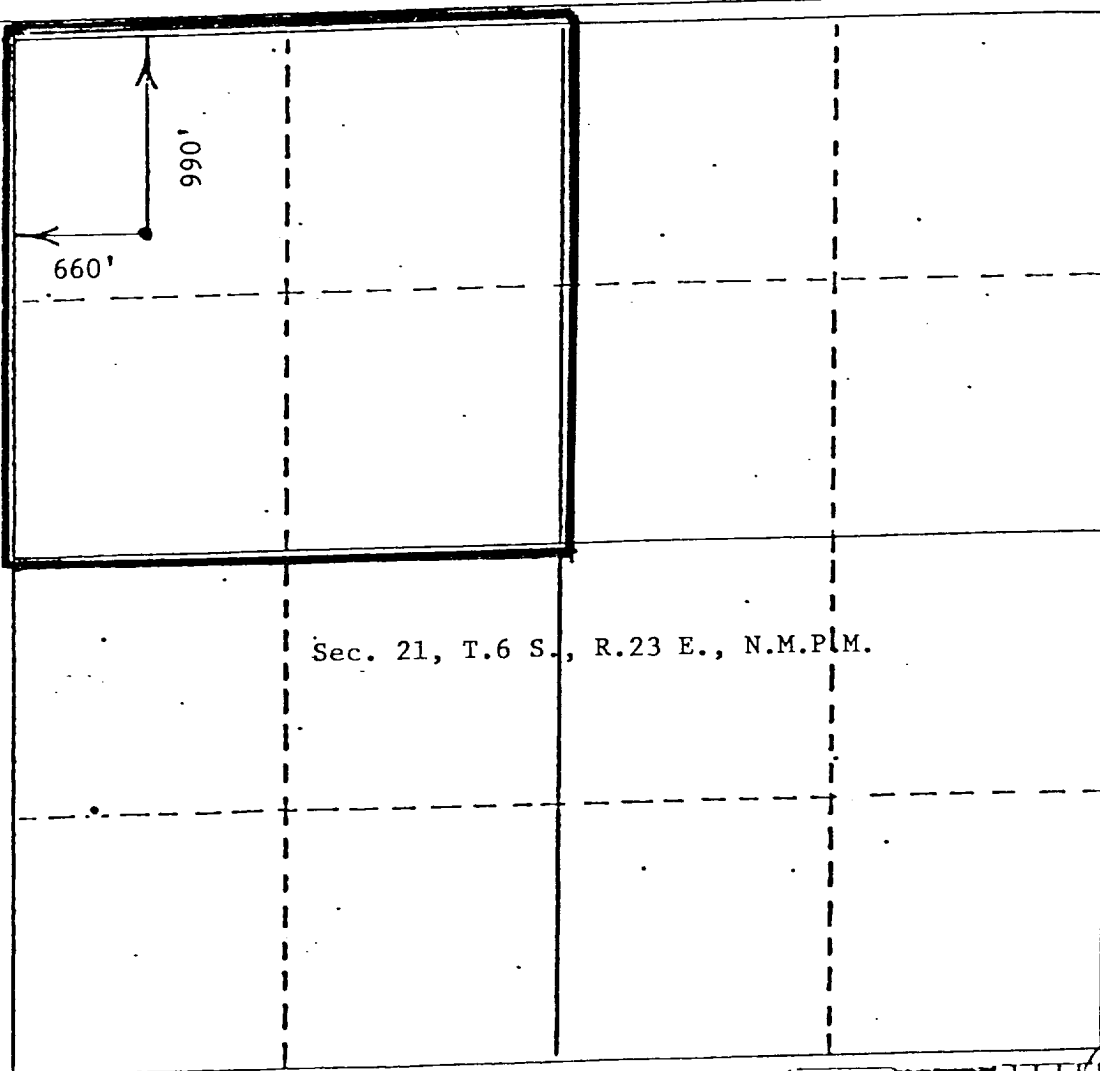
Operator Mitchell Energy Corp.		Lease M & M Federal		Well No. #3
Unit Letter D	Section 21	Township 6 South	Range 23 East	County Chaves
Actual Postage Location of Well: 660 feet from the West line and 990 feet from the North line				
Ground Level Elev. 4117	Producing Formation Abo	Pool Undesignated - <i>ABO</i>		Dedicated Acreage: 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, forced-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.

James A. Knauf

Name
James A. Knauf

Position
Agent

Company
MITCHELL ENERGY CORP.

Date
November 17, 1982

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.

JOHN D. JAQUES
NEW MEXICO
November 17, 1982
Registered Professional Engineer
and/or Land Surveyor
John D. Jaques
John D. Jaques, P.E. & L.S.
Certificate No. 6290

SUPPLEMENTAL DRILLING DATA

MITCHELL ENERGY CORPORATION
WELL #3 M & M FEDERAL
NW $\frac{1}{4}$ NW $\frac{1}{4}$ SEC. 21-6S-23E
CHAVES OUNTY, 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:

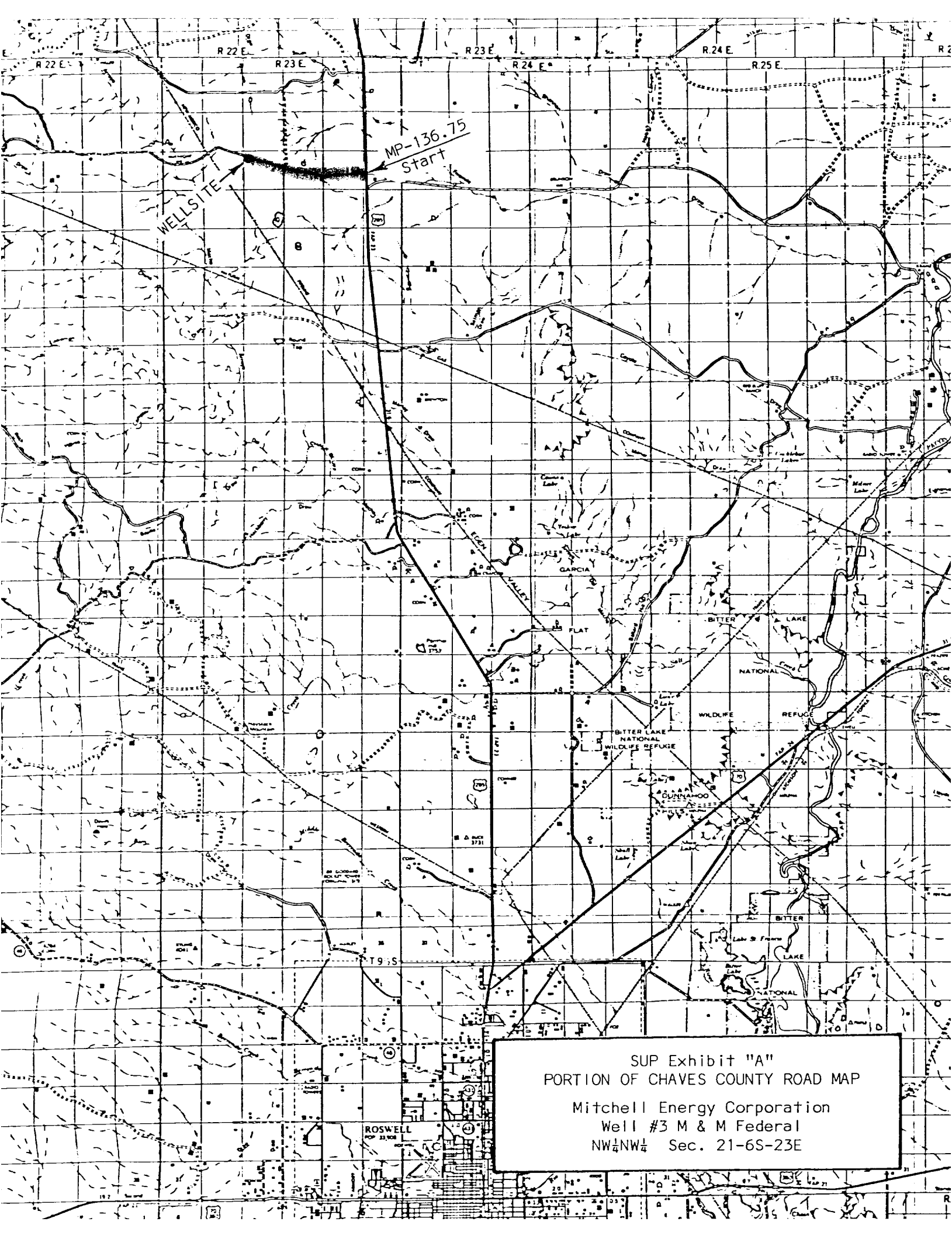
0' - 1500'	Fresh water mud with gel added if needed for viscosity.
1500' - TD	Fresh water mud, conditioned as necessary for control of viscosity and water loss.

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.

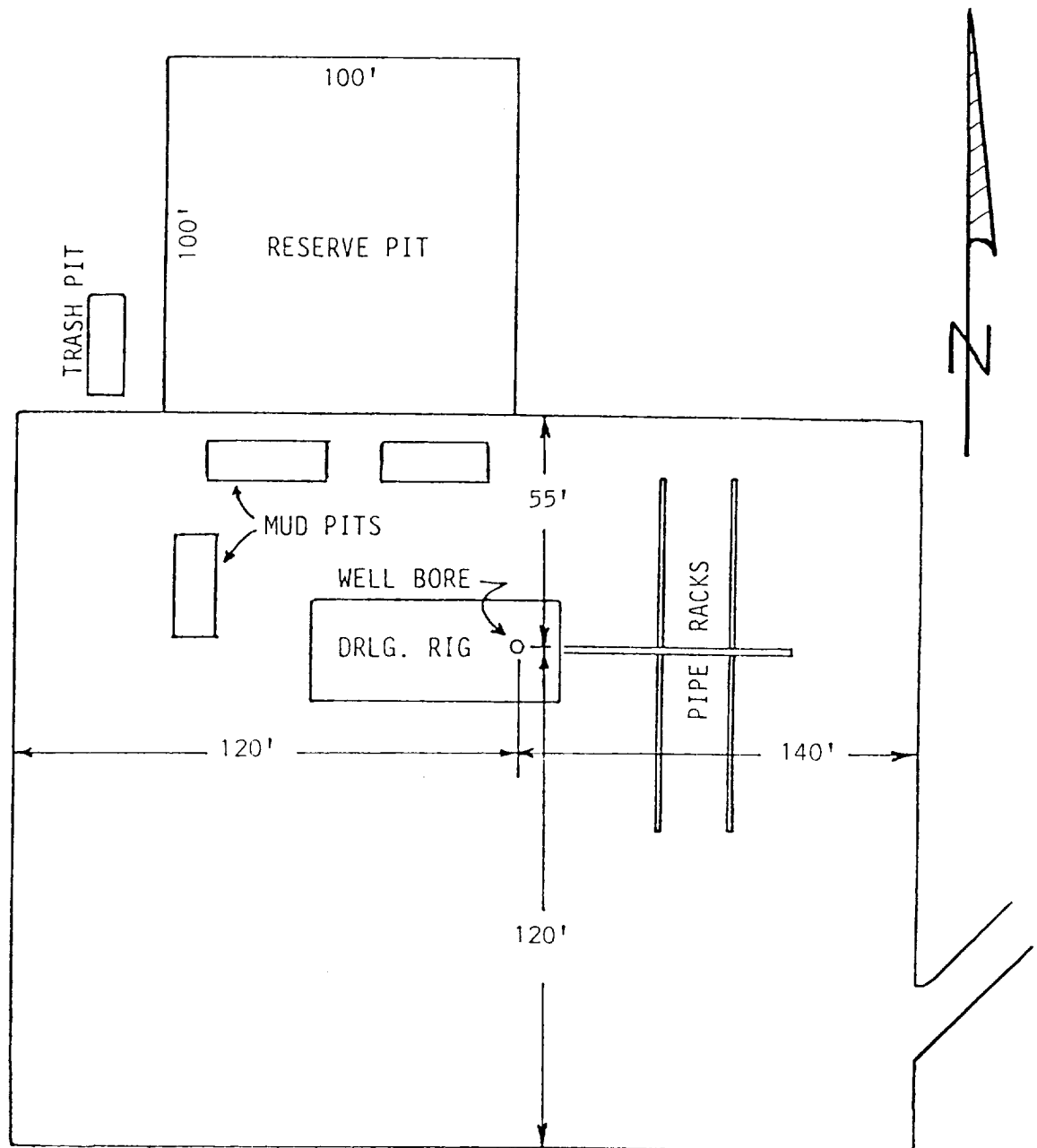
9. ABNORMAL PRESSURES, TEMPERATURES OR GASES: None anticipated.

10. ANTICIPATED DATES: It is planned that drilling operations will commence about November 29, 1982. Duration of drilling and completion operations should be 7 to 28 days.



SUP Exhibit "A"
PORTION OF CHAVES COUNTY ROAD MAP

Mitchell Energy Corporation
Well #3 M & M Federal
NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 21-6S-23E



SUP Exhibit "D"
 SKETCH OF WELL PAD
 Mitchell Energy Corporation
 Well #3 M & M Federal
 NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 21-6S-23E