

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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 ☐

2. NAME OF OPERATOR
GEORGE H. MITCHELL

3. ADDRESS OF OPERATOR
P. O. Box 963, Kermit, Texas 79745

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
At surface 724' FNL & 660' FEL of Section 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*
32 air miles south-southeast of Carlsbad, 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
419.41

17. NO. OF ACRES ASSIGNED TO THIS WELL
40

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
990'

19. PROPOSED DEPTH
6300' Cherry Canyon

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
2902 G.L.

22. APPROX. DATE WORK WILL START*
July 11, 1983

5. LEASE DESIGNATION AND SERIAL NO.
LC 065928-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
--

7. UNIT AGREEMENT NAME
--

8. FARM OR LEASE NAME
LITTLEFIELD BO FEDERAL

9. WELL NO.
2

10. FIELD AND POOL, OR WILDCAT
Brushy Draw--Cherry Canyon

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 34-26S-29E

12. COUNTY OR PARISH
Eddy

13. STATE
NM

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	9 5/8"	29.3#	350'	Sufficient to circulate
8 1/2"	7 "	17.0#	3050'	200 sacks
6 1/8"	4 1/2"	9.5#	6300'	Sufficient to tie back

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 June 27, 1983
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY P. A. Lopez DATE 7/14/83
CONDITIONS OF APPROVAL, IF ANY: _____

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

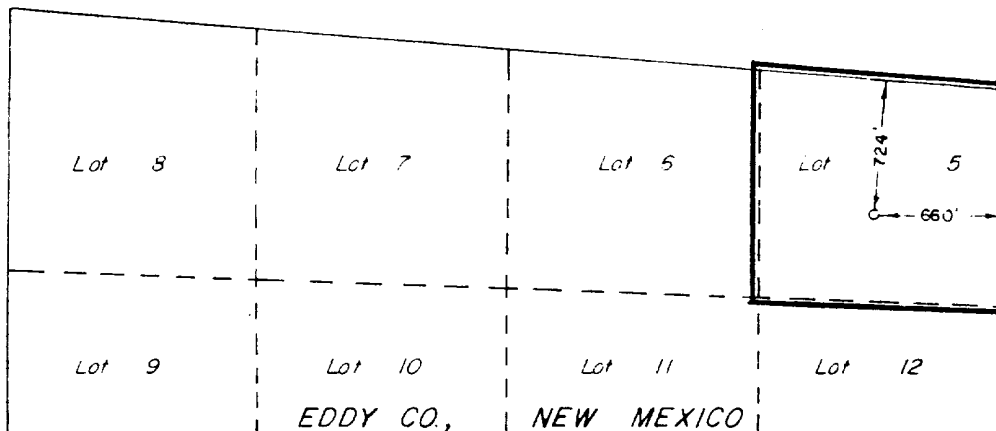
Owner GEORGE H. MITCHELL		Lease LITTLEFIELD BO FEDERAL		Well No. 2
Section A	Section 34	Township 26 South	Range 29 East	County Eddy County
Actual Well Location of Well:				
660 feet from the East line and		724 feet from the North line		
Ground Level Elev 2902.2	Producing Formation Cherry Canyon	Pool Brushy Draw--Cherry Canyon	Dedicated Acreage 40	

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.

James A. Knauf

James A. Knauf

Position

Agent

Company

GEORGE H. MITCHELL

Date

June 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 Surveyed

June 17, 1983

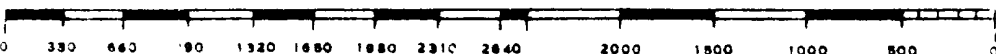
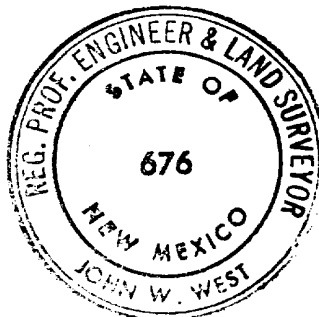
Registered Professional Engineer and/or Land Surveyor

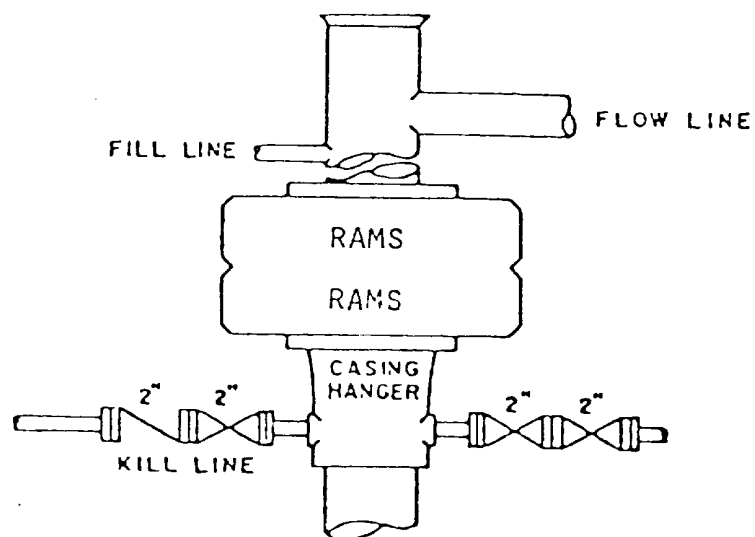
John W. West

Certificate No. JOHN W. WEST

476

Monique J. Eldon 2232





BLOWOUT PREVENTER SKETCH

George H. Mitchell
Well #2 Littlefield B0 Federal
NE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 34-26S-29E

SUPPLEMENTAL DRILLING DATA

GEORGE H. MITCHELL
WELL #2 LITTLEFIELD BO FEDERAL
724' FNL & 660' FEL SEC. 34-26S-29E
EDDY COUNTY, NEW MEXICO

1. SURFACE FORMATION: Quaternary.

2. ESTIMATED TOPS OF GEOLOGIC MARKERS (G.L. Elevation 2902'):

Anhydrite	280'	Delaware Sand	2940'
Salado	420'	Cherry Canyon	3840'
Base Lower Salt	2700'	Brushy Canyon	5200'
Delaware Lime	2900'	Bone Springs	6750'

3. POSSIBLE HYDROCARBON BEARING ZONES:

Bell Canyon	Oil & Gas
Cherry Canyon	Oil
Brushy Canyon	Oil

4. CASING DESIGN:

Size	Interval	Weight	Grade	Joint
9 5/8"	0 - 350'	29.3#	J-55	STC
7 "	0 - 3050'	17.0#	J-55	STC
4 1/2"	0 - 6300'	9.5#	J-55	STC

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

6. CIRCULATING MEDIUM:

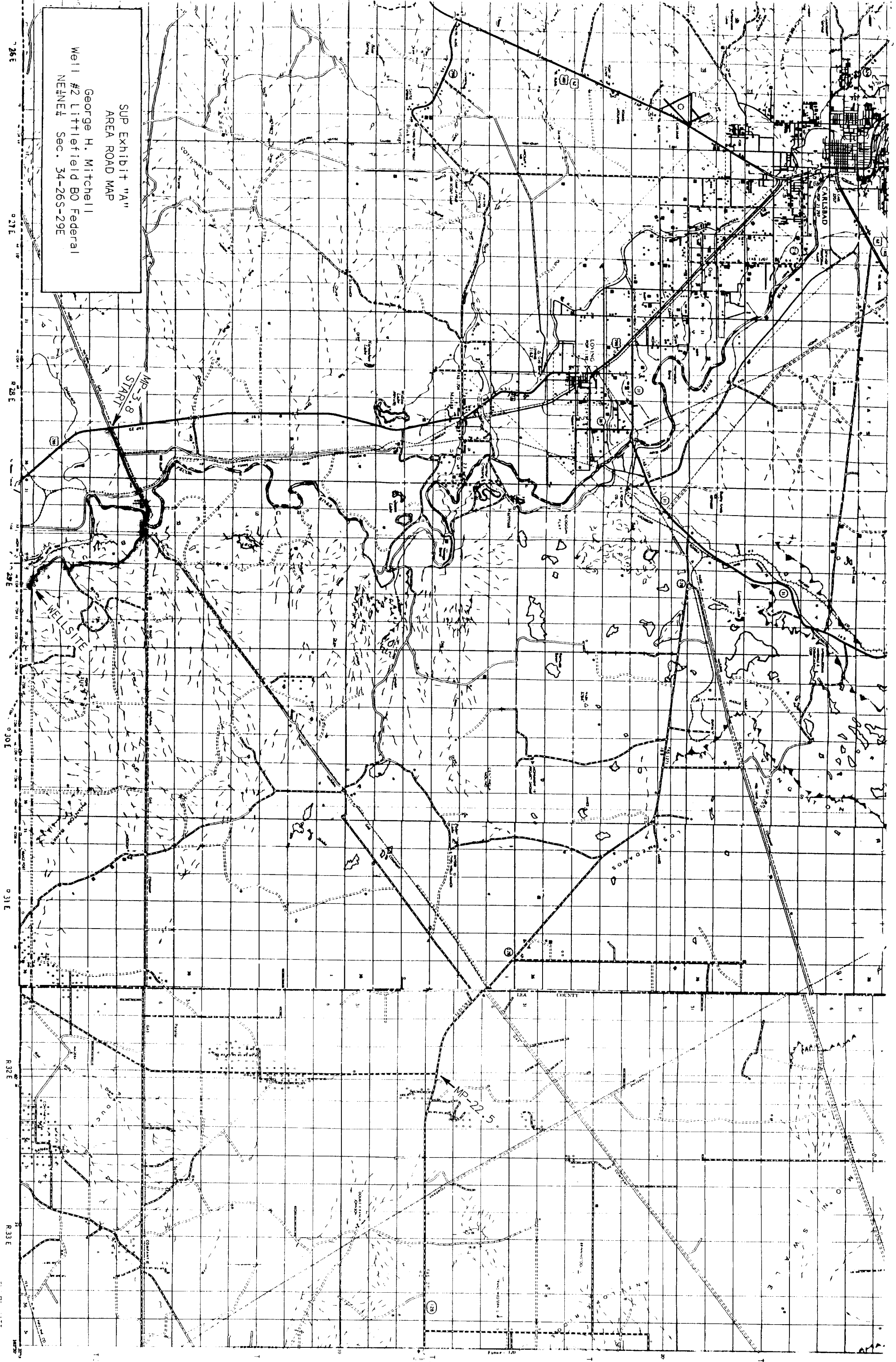
0 - 350'	Fresh water with gel or lime as needed for viscosity.
350 - 3050'	Brine
3050 - 6300'	Cut brine conditioned as necessary for control of viscosity and water loss.

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.

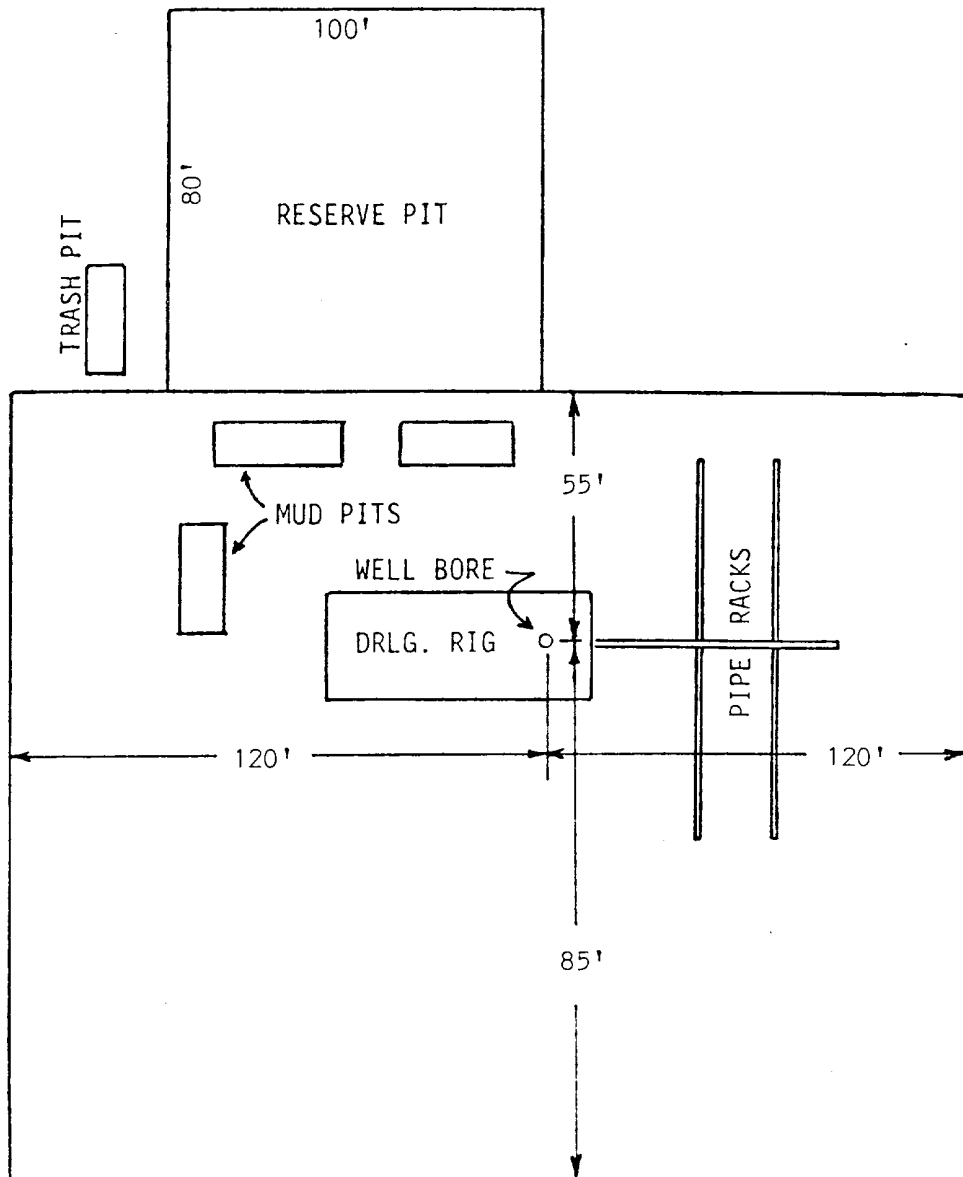
9. ABNORMAL PRESSURES, TEMPERATURES OR GAS: None anticipated.

10. ANTICIPATED STARTING DATE: It is planned that operations will commence about July 11, 1983. Duration of drilling, completion and testing operations should be 10 to 40 days.



SUP Exhibit "A"
AREA ROAD MAP
George H. Mitchell
Well #2 Littlefield B0 Federal
NE 1/4 Sec. 34-26S-29E

26E 27E 28E 29E 30E 31E 32E 33E



SUP Exhibit "D"
 SKETCH OF WELL PAD
 George H. Mitchell
 Well #2 Littlefield B0 Federal
 NE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 34-26S-29E