

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYRECEIVED
SUBMIT IN TRIPlicate
(Other instructions on
reverse side)

OCT 11 1983

Form approved.
Budget Bureau No. 42 R1425.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1. TYPE OF WORK DRILL ☒ DEEPEN ☐ PLUG BACK ☐		2. NAME OF OPERATOR MARINE & MERTZ, INC. (Mr. Taylor Mayne) (Phone 915-683-1600)		3. ADDRESS OF OPERATOR P. O. Box 183, Midland, Texas 79702		4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 660' FSL & 1673' FWL of Section At proposed prod. zone 5876'		5. LEASE DESIGNATION AND SERIAL NO. NM-19422		6. IF INDIAN, ALLOTTEE OR TRIBE NAME --		7. UNIT AGREEMENT NAME --		8. FARM OR LEASE NAME BLUEWATER FEDERAL		9. WELL NO. 1		10. FIELD AND POOL, OR WILDCAT Undesignated		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 18-23S-26E		12. COUNTY OR PARISH Eddy		13. STATE NM	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 8 air miles south-southwest of Carlsbad, New Mexico		15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 353'		16. NO. OF ACRES IN LEASE 400		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. NA		19. PROPOSED DEPTH 5100' Delaware		20. ROTARY OR CABLE TOOLS Rotary		21. ELEVATIONS (Show whether DF, RT, GR, etc.) 3411' G.L.		22. APPROX. DATE WORK WILL START* October 25, 1983									

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
7 1/2"	13 3/8"	54.5#	650'	Sufficient to circulate
12 1/4"	*	*	1500-1800'	*
7 7/8"	4 1/2"	10.5#	5100'	200 sacks

* If circulation cannot be maintained while the 12 1/4" hole is drilled to a depth of 1500-1800', 8 5/8", 24# intermediate casing will be run and cemented with not less than 200 sacks of cement.

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

EXPIRING LEASE: The 10-year primary term of NM-19422 will expire on 10-31-83 and we plan to earn a two-year lease extension by drilling over such date.

3. ABOVE STATE 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 prevention program, if any.

SIGNED

James A. Keut

Agent

TITLE

DATE

October 11, 1983

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED

10-11-83
11-21-83
L. J. H. K.

**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

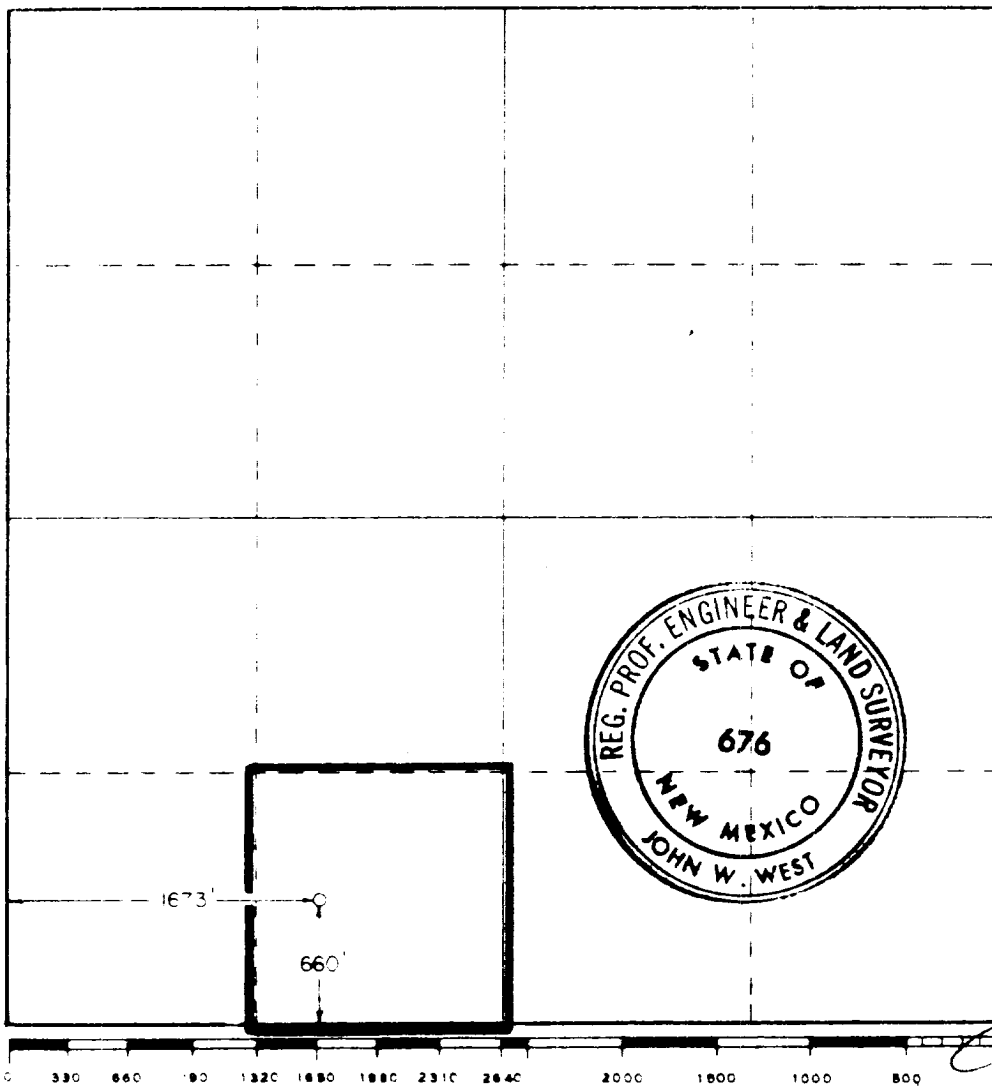
Lessor WAYNE & MERTZ, INC.			Lessee BLUEWATER FEDERAL		Acres 1
Section N	Section 18	Township 23 South	Range 26 East	County Eddy	
Actual Portage Location of Well: 660 feet from the south line and 1673 feet from the west line					
Ground Level Elev. 3411'	Producing Formation Delaware	For West Dark Canyon - Delaware		Designated 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

MAYNE & MERTZ, INC.

September 30, 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

September 19, 1983

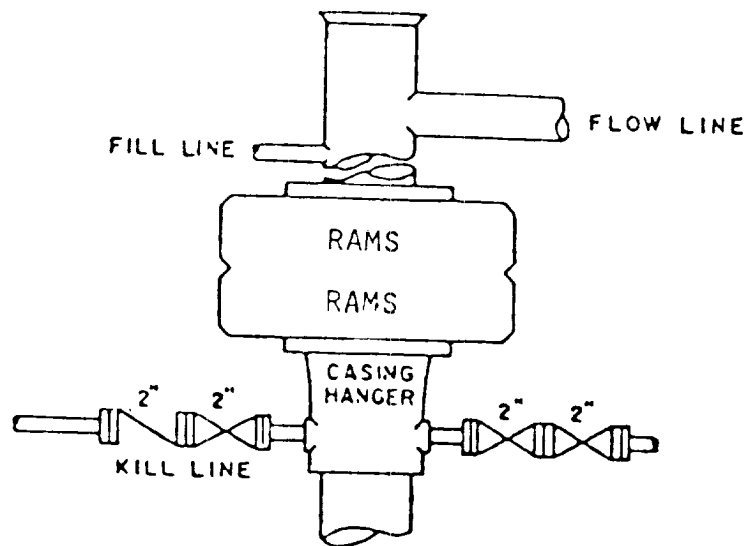
Registered Professional Engineer and Land Surveyor

Ronald J. Eldson

Certificate No. **JOHN W. WEST 676**
RONALD J. ELDSON, 3239

BLOWOUT PREVENTER SKETCH

Mayne & Mertz, Inc.
Well #1 Bluewater Federal
660' FSL & 1673' FWL Sec. 18-23S-26E



SUPPLEMENTAL DRILLING DATA

MAYNE & MERTZ, INC.
WELL #1 BLUEWATER FEDERAL
660' FSL & 1673' FWL SEC. 18-23S-26E
EDDY COUNTY, NEW MEXICO

1. SURFACE FORMATION: Quaternary.

2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

Delaware 1600'
Bone Springs 5200'

3. ANTICIPATED POROSITY ZONES:

Water Less than 450'
Oil Lower Delaware

4. CASING DESIGN:

<u>Size</u>	<u>Interval</u>	<u>Weight</u>	<u>Grade</u>	<u>Joint</u>
13 3/8"	0 - 650'	54.5#	J-55	STC
8 5/8"	0 - 1800'	24.0#	J-55	STC
4 1/2"	0 - 5100'	10.5#	J-55	STC

5. PRESSURE CONTROL EQUIPMENT: Two Ram-Type Preventors.

6. CIRCULATING MEDIUM:

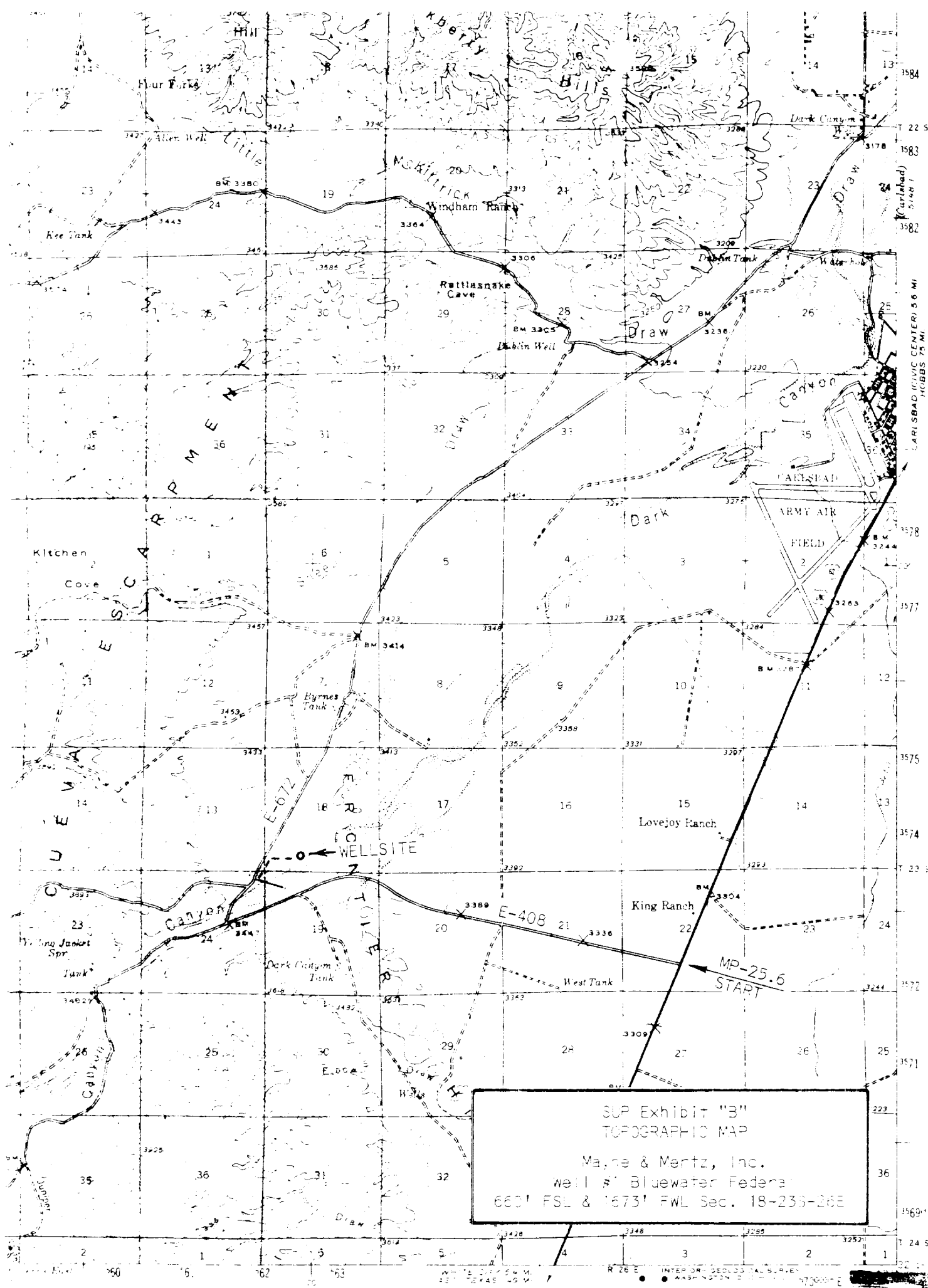
0 - 650' Fresh water mud - uncontrolled.
650 - 1800' Fresh water mud. Add LCM as necessary. If loss or circulation becomes a problem. If severe loss occurs, drill dry to casing point.
1800 - 5100' Salt water conditioned as necessary for control of viscosity and water loss.

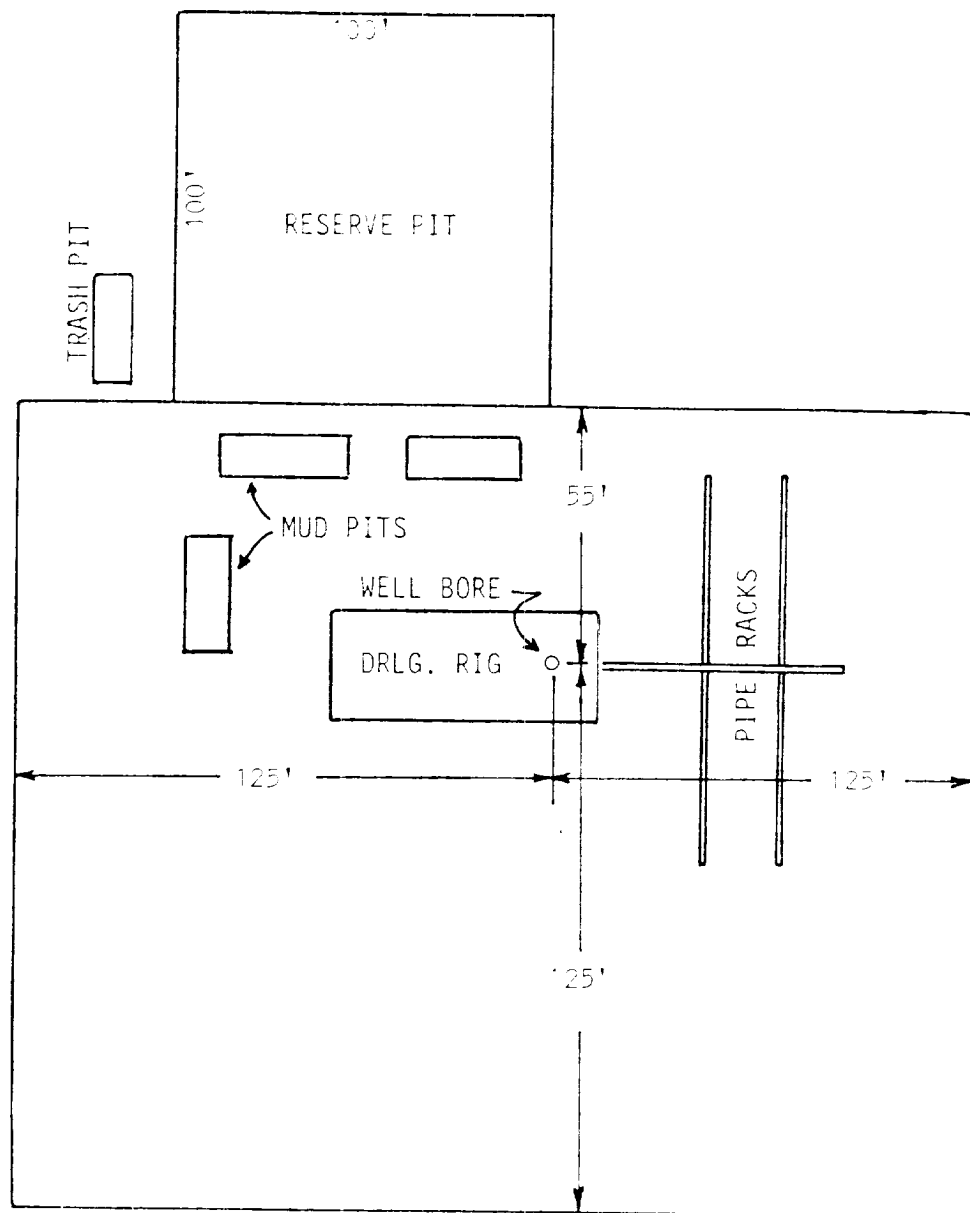
7. AUXILIARY EQUIPMENT: Drill string safety valve.

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 drilling operations will commence about October 25, 1983. Operator plans to earn a two-year lease extension by drilling over October 31, 1983, the lease expiration date. Duration of drilling and completion operations should be 15 to 40 days.





SUP Exhibit "D"
SKETCH OF WELL PAD

Mayne & Mertz, Inc.
Well #1 Bluewater Federal
660' FSL & 1673' FWL Sec. 18-23S-26E