

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYC/SF
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 MESA PETROLEUM CO. MAR - 1 1982
3. ADDRESS OF OPERATOR 1000 VAUGHN BUILDING/MIDLAND, TEXAS 79701-4493 O. C. D.
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
At surface 1980' FNL & 660' FEL SW NE/4
At proposed prod. zone same
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
20 miles north/northeast of Roswell, New Mexico
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 640
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 4000'
20. ROTARY OR CABLE TOOLS Rotary
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 3604' GR
22. APPROX. DATE WORK WILL START* January 17, 1982

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#	900'	SURFACE
11" or 12 1/4"	8 5/8"	24#	1600'	ISOLATE WATER, OIL & GAS
7 7/8"	4 1/2"	10.5#	4000'	COVER ALL PAY

Propose to drill 17 1/2" hole to approximately 900' to set 13 3/8" surface casing and cement to surface. Will reduce hole to 11" or 12 1/4" and drill to approximately 1600' to set 8 5/8" casing. Will nipple up RAM type BOPs, reduce hole to 7 7/8" and drill to total depth. Drilling medium will be air, foam, or mud as required.

NOTE: Location moved due to geological information.

GAS IS DEDICATED

XC: USGS (6), TLS, CEN RECDS, ACCTG, MEC, LAND, ROSWELL, PARTNERS, OIL & GAS, U.S. GEOLOGICAL SURVEY, ROSWELL, NEW MEXICO

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 R. P. [Signature] TITLE REGULATORY COORDINATOR DATE 1-11-82

(This space for Federal or State office use)

PERMIT NO. **APPROVED**
APPROVAL DATE **FEB 25 1982**
APPROVED BY **JAMES A. GILLHAM**
CONDITIONS OF APPROVAL, IF ANY **DISTRICT SUPERVISOR**
TITLE **APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED**
DATE **2-3-82**
*See Instructions On Reverse Side

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-102
Revised 10-1-78

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

Operator Mesa Petroleum Co.		Lease Milner Federal		Well No. 3
Unit Letter H	Section 8	Township 8 South	Range 25 East	County Chaves
Actual Footage Location of Well: 1980 feet from the North line and 660 feet from the East line				
Ground Level Elev. 3604	Producing Formation ABO	Pool UNDESIGNATED	Dedicated Acreage: NE/4 160 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.

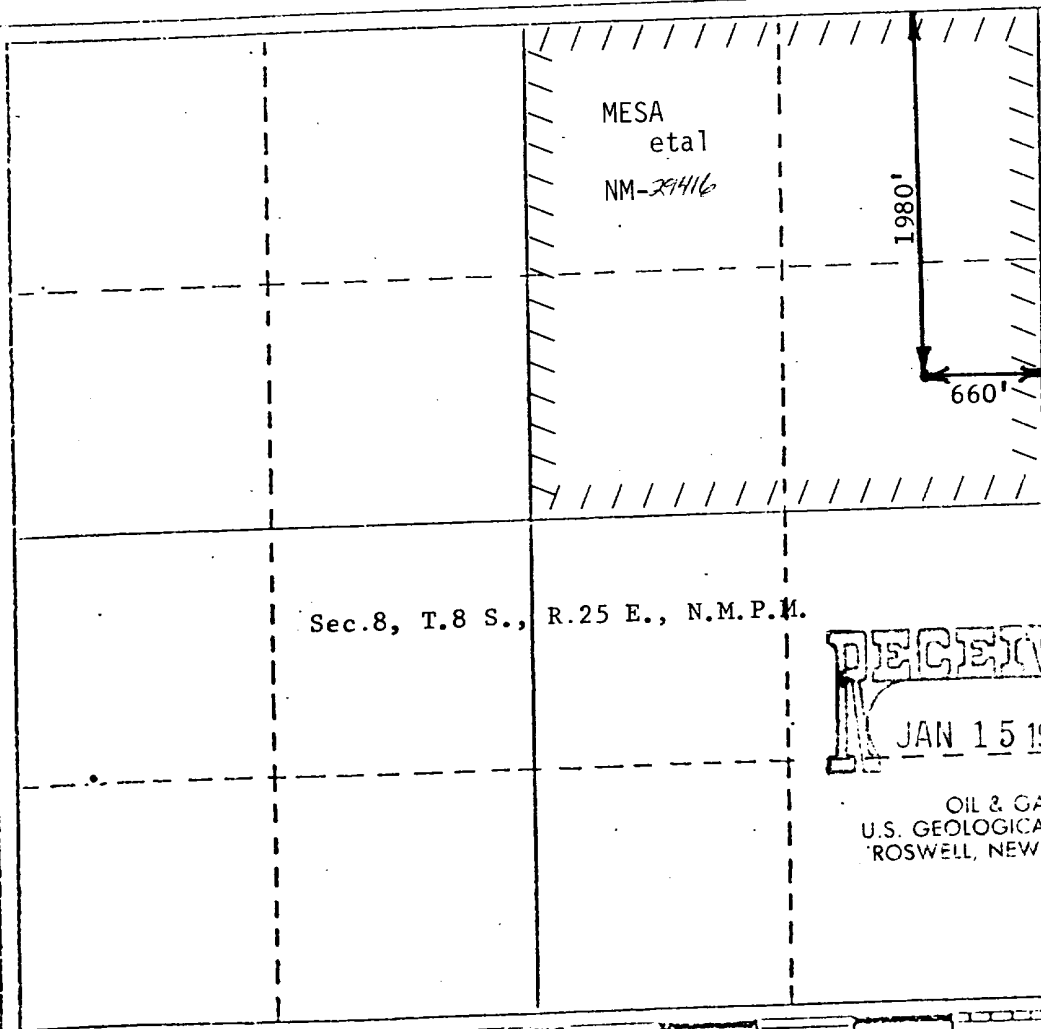
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

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 Division.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

R. E. Mathis

Name
R. E. MATHIS
Position
REGULATORY COORDINATOR
Company
MESA PETROLEUM CO.
Date
1-11-82

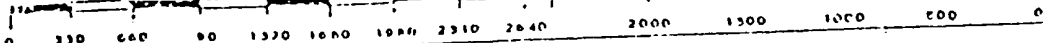
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

RECEIVED
JAN 15 1982

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

JOHN D. JAKUES
Professional Engineer
and/or Licensed Surveyor
January 15 1982
John D. Jakues, P.E. & L.S.

Certificate No. **6290**



APPLICATION FOR PERMIT TO DRILL

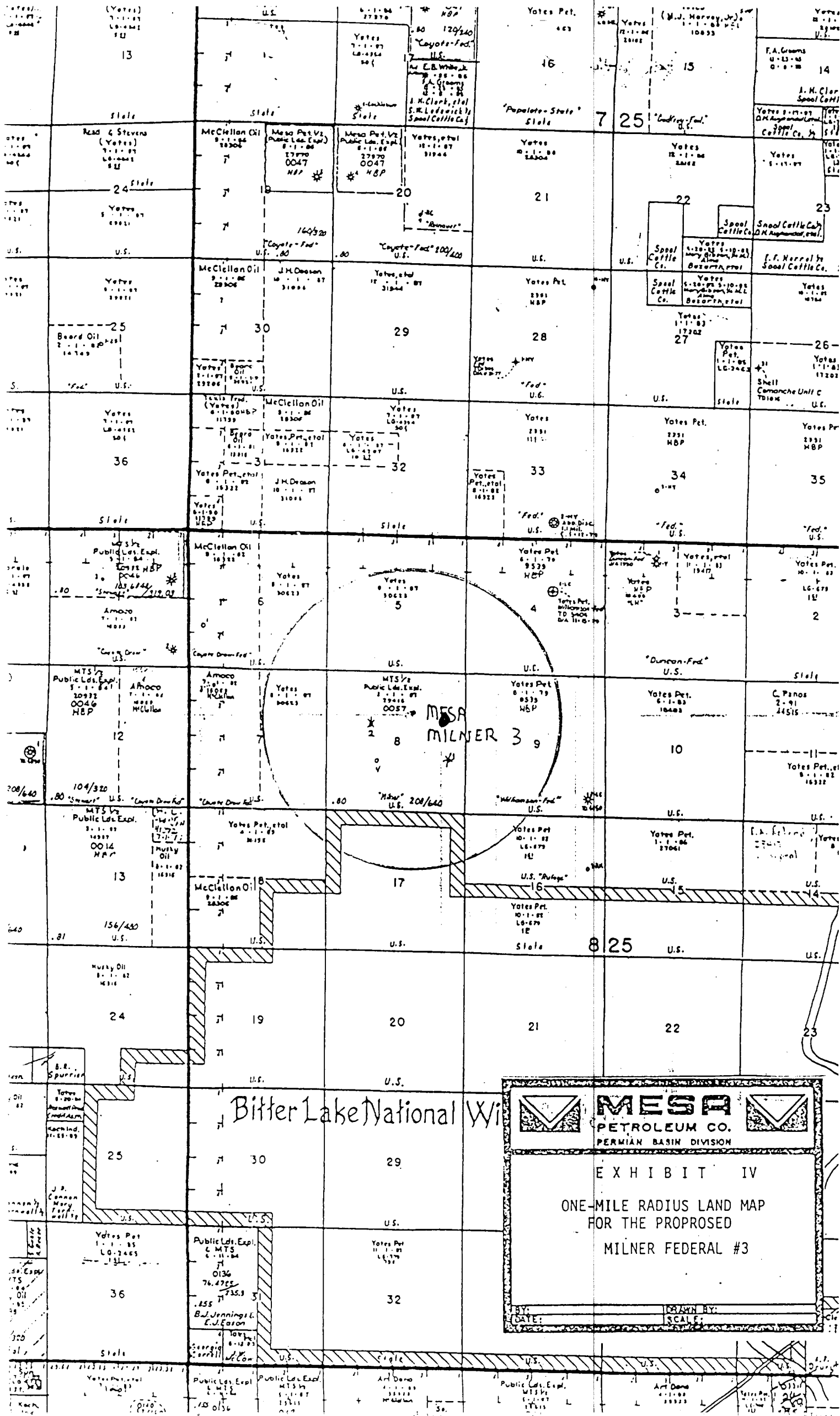
MESA PETROLEUM CO.
MILNER FEDERAL #3
1980' FNL & 660' FEL, SEC 8, T8S, R25E
CHAVES COUNTY, NEW MEXICO

LEASE NO. NM-29416

In conjunction with Form 9331-C, Application For Permit to Drill subject well, the following additional information is provided:

1. Applicable portions of the GENERAL REQUIREMENTS FOR OIL AND GAS OPERATIONS ON FEDERAL LEASES, Roswell District, Geological Survey of September 1, 1980 will be adhered to.
2. Geological markers are estimated as follows:

SEVEN RIVERS	Surface
SAN ANDRES	517'
GLORIETA	1166'
TUBB	2790'
ABO	3484'
3. Hydrocarbon bearing strata may occur in the ABO formation(s). No fresh water is expected to be encountered below 900'.
4. The Casing and Blowout Preventer Program will be determined by hole conditions as encountered. See Exhibit VI. Anticipate drilling with air or foam using ram type preventer and rotating head for well control. The 13 3/8" casing will be set at approximately 900' to protect any fresh water zones and cemented to the surface. The 8 5/8" casing will be set at approximately 1600' if water zones have been encountered or omitted if not and ram type preventers installed. Sufficient amounts and kinds of cement would be used to ensure any water, gas, or oil zones encountered are isolated and shut off down to the casing point if run. The 4 1/2" production casing will be set at total depth or shallower depending upon the depth of the deepest commercial hydrocarbon bearing strata encountered.
5. No drill stem test or coring program is planned. The logging program may consist of a GR-CNL from surface total depth and PDC from casing point to total depth.
6. Anticipated drilling time is ten days with completion operations to follow as soon as a completion unit is available.



**MESA**
PETROLEUM CO.
PERMIAN BASIN DIVISION

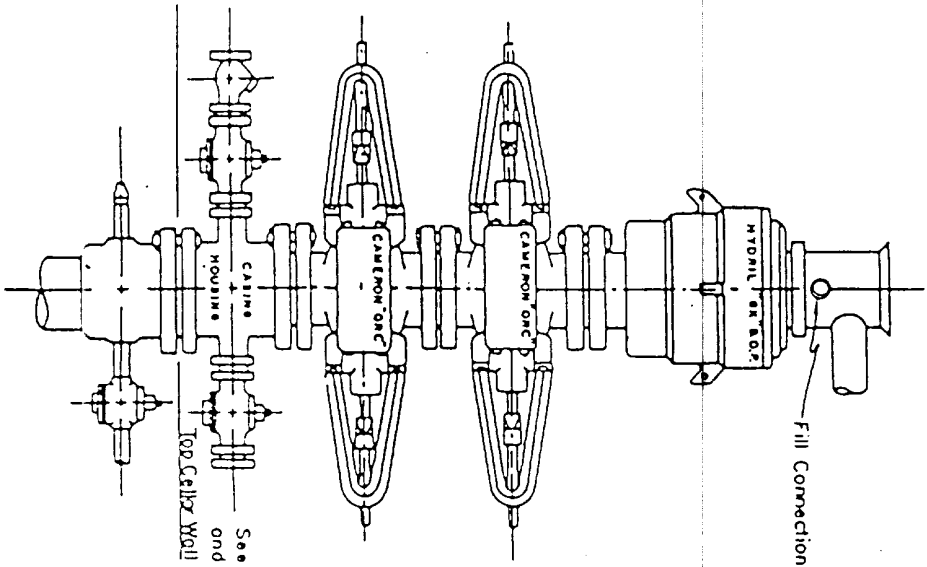
EXHIBIT IV

ONE-MILE RADIUS LAND MAP
FOR THE PROPOSED
MILNER FEDERAL #3

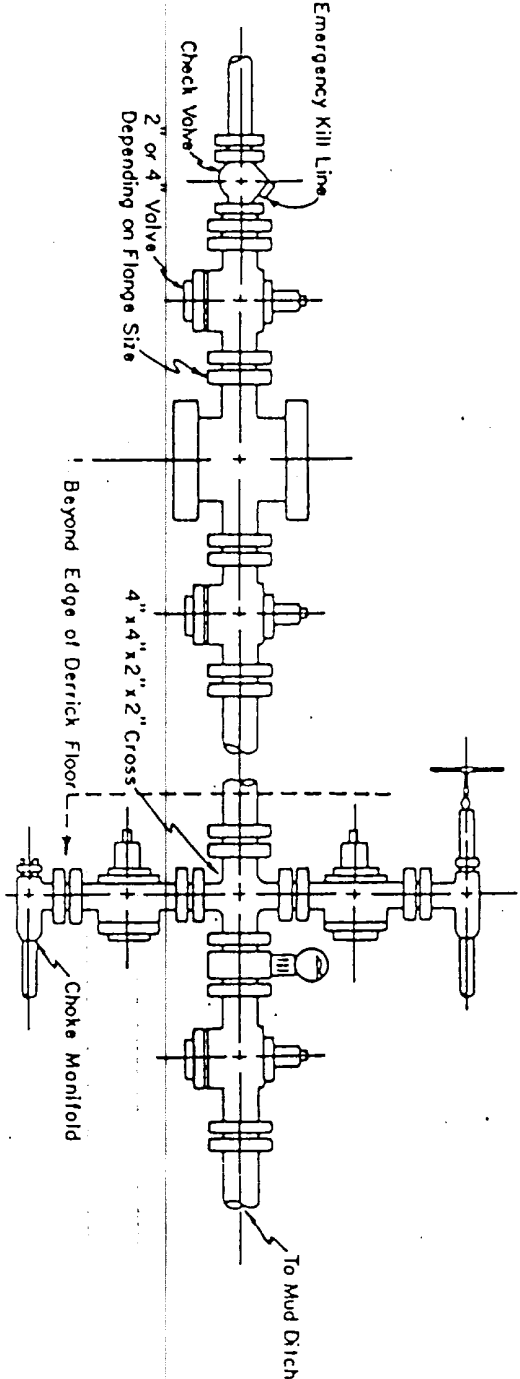
BY: _____ DRAWN BY: _____
DATE: _____ SCALE: _____

Bitter Lake National Wildlife Refuge

Blow-out Preventers hydril and choke manifold are all 900 Series



3,000 PSI WORKING PRESSURE
BLOW-OUT PREVENTER HOOK-UP



3,000 PSI WORKING PRESSURE
KILL, CHOKE, AND FILL CONNECTIONS

DETAIL OF 4" FLOW LINE CHOKE ASSEMBLY

Minimum assembly for 3,000 PSI working pressure will consist of three preventers.
The bottom and middle preventers may be Cameron.

NOTE: HYDRIL not installed on shallow-low pressure wells.
RBM type BOPs are API 10" X 3000 PSI

**MESA**
PETROLEUM CO.
PERMIAN BASIN DIVISION

EXHIBIT
VI

DATE: _____
BY: _____