

NM OIL CORR. COM.
Driller DD
NM 88210
ART. APED STATES

SUBMIT IN TRIPPLICATE
(Other instr. as on reverse)

Form approved.
Budget Bureau No. 42-R1425

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.

NM-36644

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

DEBBIE FEDERAL

9. WELL NO.

4

10. FIELD AND POOL, OR WILDCAT

UNDESIGNATED ABO

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

SEC 30, T7S, R23E

12. COUNTY OR PARISH 13. STATE

CHAVES

NEW MEXICO

17. NO. OF ACRES ASSIGNED TO THIS WELL

160

20. ROTARY OR CABLE TOOLS

ROTARY

22. APPROX. DATE WORK WILL START*

AUGUST 8, 1982

1. TYPE OF WORK

DRILL ☒ X

DEEPEN ☐

PLUG BACK ☐

b. TYPE OF WELL

OIL WELL ☐

GAS WELL ☐

☒ X

OTHER

SINGLE ZONE ☐

MULTIPLE ☐

☒ X RECEIVED

2. NAME OF OPERATOR

MESA PETROLEUM CO. ✓

3. ADDRESS OF OPERATOR

1000 VAUGHN BUILDING/MIDLAND, TEXAS 79701-4493

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

At surface

1100' FSL & 1500' FEL SW 1/4 SE 1/4 0

At proposed prod. zone

SAME

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

30 miles Northwest of Roswell, New Mexico

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drlg. unit line, if any)

1100' / 1100'

16. NO. OF ACRES IN LEASE

1941.5

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,

OR APPLIED FOR, ON THIS LEASE, FT.

3850'

19. PROPOSED DEPTH

3400'

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

4076' GR

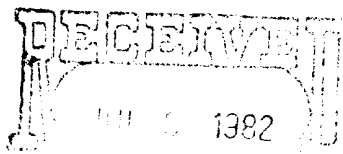
23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8"	24#	1400'	700/300 SURFACE
7 7/8"	4 1/2"	10.5#	3400'	300 COVER ALL PAY

Propose to drill 12 1/4" hole to approximately 1400' to set 8 5/8" surface casing and cement to surface. Will nipple up ram type BOP's and reduce hole to 7 7/8" to drill to total depth. Drilling medium will be air, foam, or mud as required. After log evaluation, 4 1/2" casing may be run and cemented with sufficient kinds and amounts to isolate and seal off any fresh water, oil or gas zones encountered.

Operator's Gas Sales are dedicated.



Fastel ID-1
7-23-82

XC: MMS (7), TLS, CEN RCDS, ACCTG, MEC, LAND, ROSWELL, REM, FILE, (PARTNERS)

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 William R. Mutchin

DIVISION DRILLING SUPERVISOR

7-7-82

(This space for Federal or State office use)

(Orig. Sgd.) GEORGE H. STEWART

PERMIT NO.

APPROVAL DATE

JUL 7 1982

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

NMOCB APPROVAL ON NON STD-LOC.

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

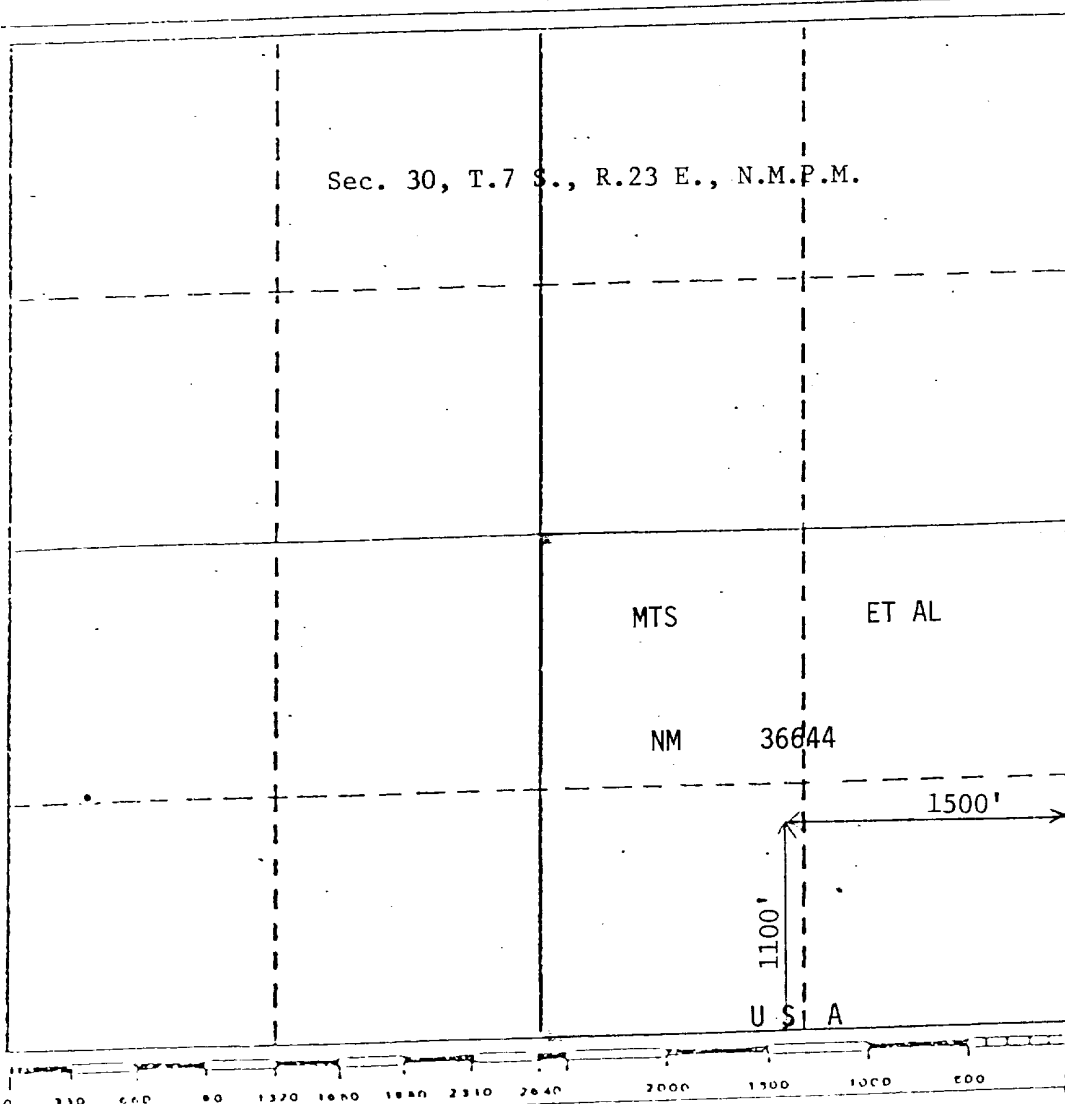
Operator Mesa Petroleum Co.		Lease Debbie Federal		Well No. 4
Unit Letter 0	Section 30	Township 7 S.	Range 23 E.	County Chaves
Actual Postage Location of Well:				
1100	feet from the	South	line and	1500 feet from the
				East line
Ground Level Elev. 4076	Producing Formation ABO		Pool UNDESIGNATED ABO	Dedicated Acreage: SE/4 160 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).
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.

WR Miertschin

Name
W. R. MIERTSCHIN
Position
DIV. DRILLING SUPERVISOR
Company
MESA PETROLEUM CO.

Date
JULY 6, 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. JAQUESS
Date Surveyed
6-29-82
Registered Professional Engineer
and of State of New Mexico
6290
John D. Jaquess
John D. Jaquess, P.E. & L.S.
Certificate No.
6290

APPLICATION FOR PERMIT TO DRILL

MESA PETROLEUM CO.
DEBBIE FEDERAL #4
1100' FSL & 1500' FEL, SEC 30, T7S, R23E
CHAVES COUNTY, NEW MEXICO

LEASE NO. NM-36644

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:

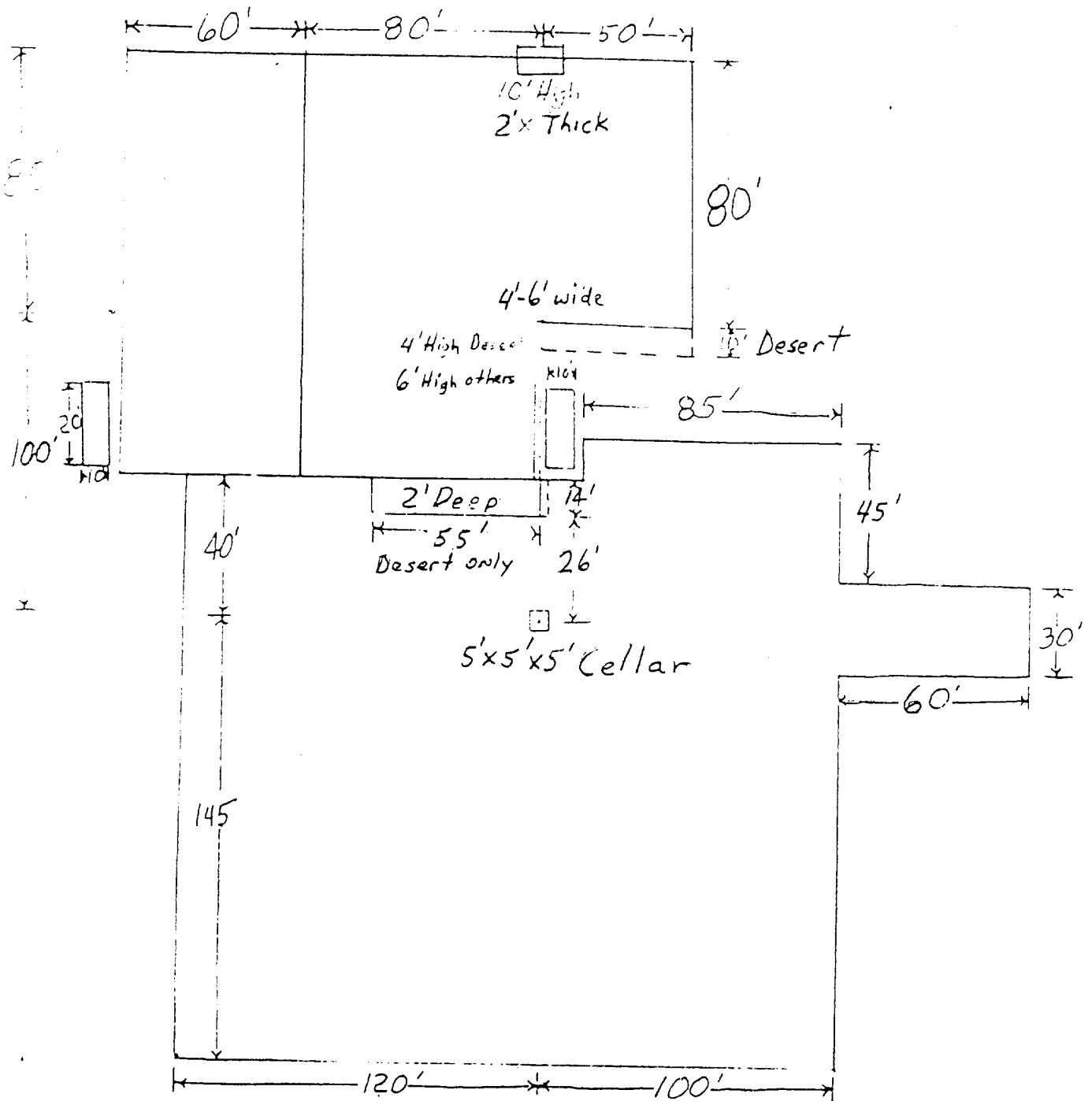
SEVEN RIVERS	Surface
SAN ANDRES	800
GLORIETA	978
TUBB	2326
ABO	2711

3. Hydrocarbon bearing strata may occur in the Abo formation(s). No fresh water is expected to be encountered below 1400'.

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 8 5/8" casing will be set at approximately 1400' to protect any fresh water zones and cemented to the surface. 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. 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.

5. No drill stem test or coring program is planned. The logging program may consist of a GR-CNL from surface total depth and FDC from casing point to total depth.

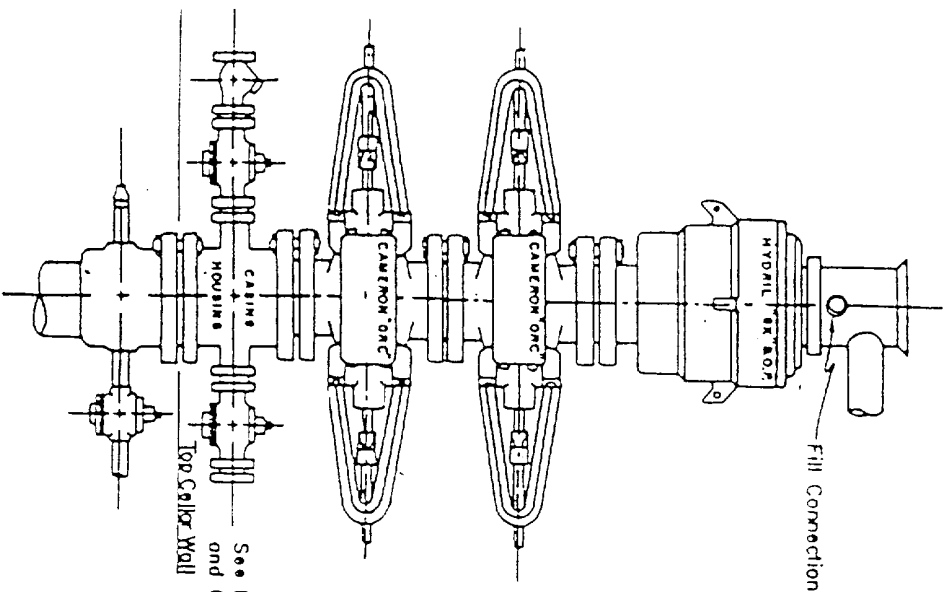
6. Anticipated drilling time is ten days with completion operations to follow as soon as a completion unit is available.



6"-8" Watered & Compacted Caliche
ON PAD & ROAD IF NEEDED

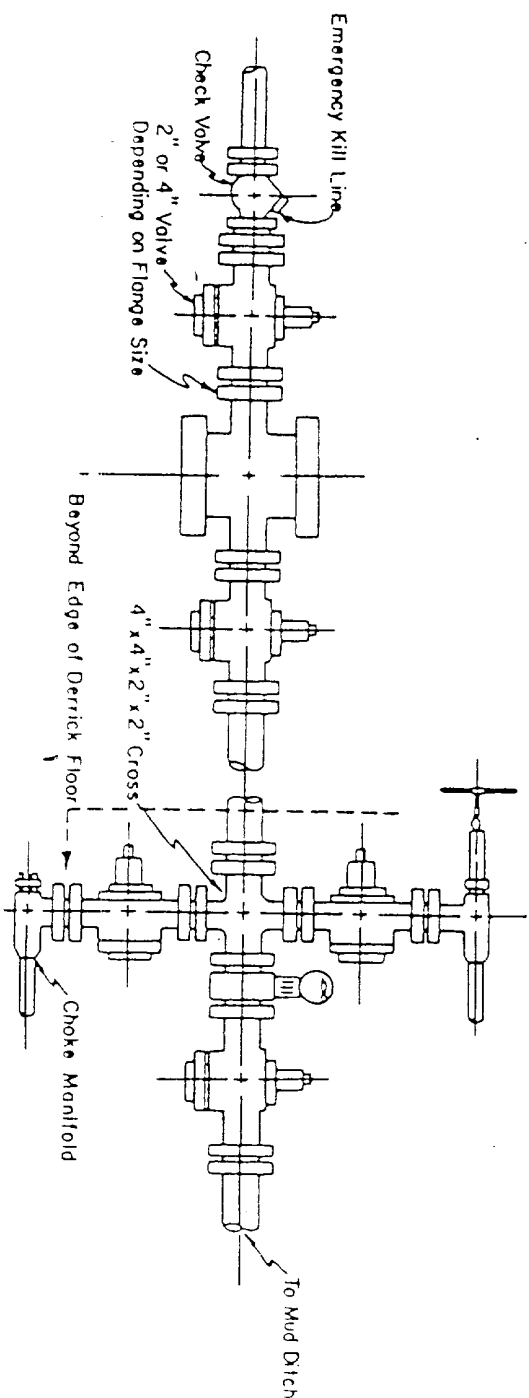
MESA PETROLEUM CO. PERMAN BASIN DIVISION	
EXHIBIT V	
FOR PROPOSED DEBBIE FEDERAL #4	
BY:	DATE:
BY:	SCALE:

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



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

See Detail of 4" Flow Line
and Choke Assembly



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.
RWM type BOPs are API 10" X 3000 PSI



E X H I B I T

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