NM OIL CONS & COV SSION

Force approved. Budget Bureau No. 42-R1425.

UNITED STATES Drawer (DD) reverse side on DEPARTMENT OF THE INTERIOR NA 88210

30-005-61709

GEO	LOG	ICAL	SUR	VEY

LEASE DESIG	NATION	AND REGERGE	Er:
	6653		

			
APPLICATION FOR PERMIT	TO DRILL, DEEPE	N, OR PLUG BA	ACK 6. IF INDIAN, ALLOTTRE JUL 1 5 1982
1a. TYPE OF WORK DRILL X	DEEPEN [PLUG BACI	7. UNIT AGREEMENT NAME O. C. D.
b. TYPE OF WELL. OIL GAS WELL X OTHER	813 Z0	NGLE Y MULTIPLI	ADTO
WELL WELL X OTHER 2. NAME OF OPERATOR			CAROL FEDERAL
MESA PETROLEUM CO. 3. ADDRESS OF OPERATOR			11
1000 VAUGHN BUILDING/M. 4. LOCATION OF WELL (Report location clearly in	DLAND, TEXAS 791 nd in accordance with any S	701–4493 tate requirements.*)	10. FIELD AND POOL, OR WILDCAT INDESTGNATED ABO
At surface 402 FNL & 1764			11. SEC., T., B., M., OR BLK. AND SURVEY OR AREA
At proposed prod. zone SAME 14. DISTANCE IN MILES AND DIRECTION FROM N	EAREST TOWN OR POST OFFICE		SEC 24, T7S, R22E 12. COUNTY OF PARISH 13. STATE
34 miles Northwest of I	Roswell, New Mexic		CHAVES NEW MEXICO 17. NO. OF ACRES ASSIGNED TO THIS WELL.
PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) 18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.		orosed okerni	20. ROTARY OR CABLE TOOLS
21. ELEVATIONS (Show whether DF, RT, GR, etc.)	2000.	3200'	22. APPROX. DATE WORK WILL START*
23. 4194' GR	PROPOSED CASING AND	CEMENTING PROGRA	AUGUST 10, 1982
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#	3200!	350 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.

DECENTAL 1982

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

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. 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.

SIGNED R.F.	Mark	TITLE	REGULATORY COORDINATOR	DATE6-30-82
(This space for I	ederal of State office use SEORGE E	STEWART	APPROVAL DATE	5/ 2/
APPROVED BY	JUL 1 3 1982	TITLE		DATE JY
CONDITIONS OF APP	JAMES A. CITCHAM DISTRICT SUPPRVISOR	-		Jak 1 4 V 33

4

Forr C-102 Revised 16-1-78

SANTA FE, NEW MEXICO 87501

Mesa Petroleum Co. Mesa Petroleum Co. Recoge County	EMERICA AND LINK	THES DEFINATION	All distances must b	Iram the	outer houndaries et	the Section		
Mesa Petroleum C Township								WEIL NO. 11
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402 tert from the North	ictual l'estage Loca	otion of Well:			176/1 tec	t Iron the	West	line
1. Outline the arrange delicated to the subject well by colored pencil or hachure marks on the follow. 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 awnership is dedicated to the well, have the interests of all owners been convolidated by communitization, unitization, force-pooling, etc? Yes No		feet from the	NOLLII		1704			Dedicated Acreoge:
1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat helow. 2. If more than one lense is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lense of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling-eac? Yes	7.107	ADO		UNDES	SIGNATED /	*		
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APPLICATION FOR PERMIT TO DRILL

MESA PETROLEUM CO.
CAROL FEDERAL #11
402' FNL & 1764' FWL, SEC 24, T7S, R22E
CHAVES COUNTY, NEW MEXICO

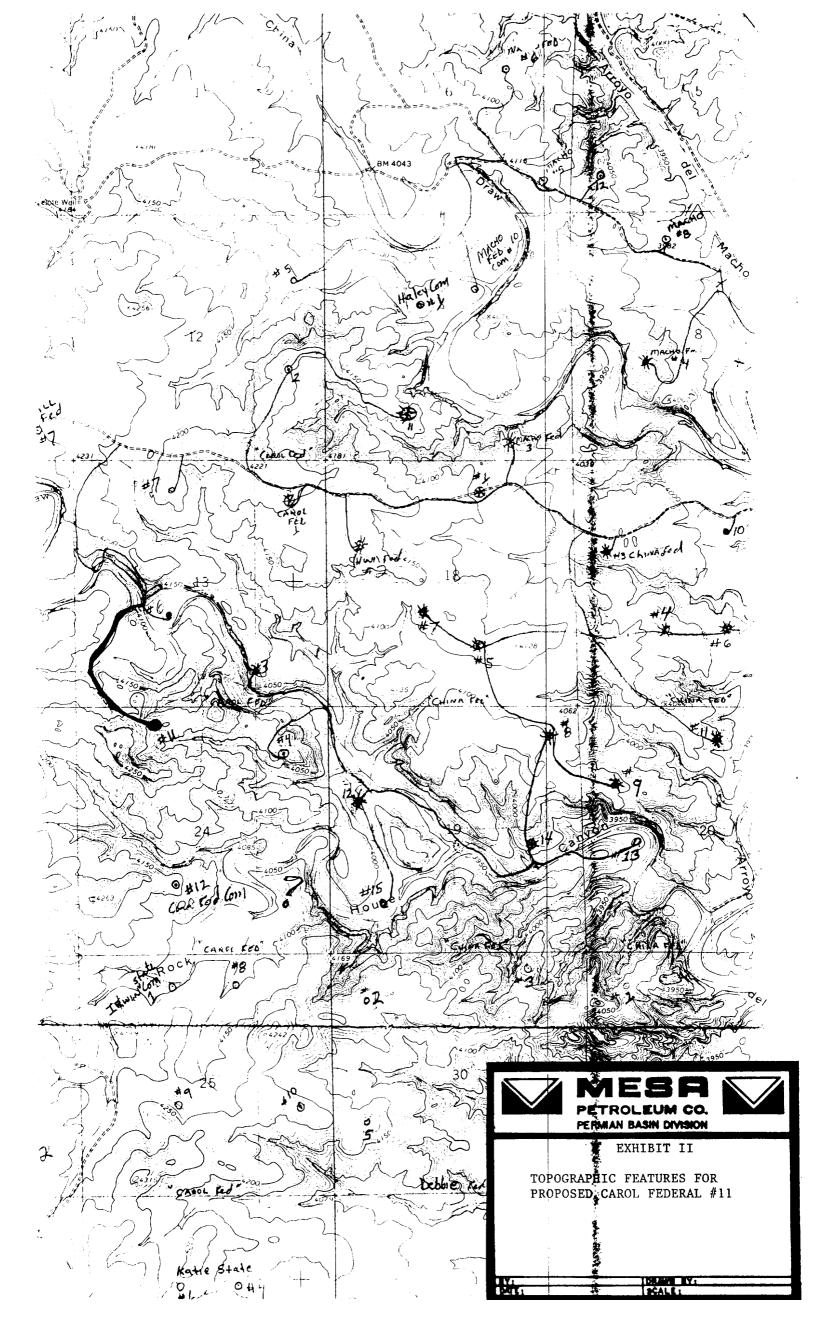
LEASE NO. NM-36653

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

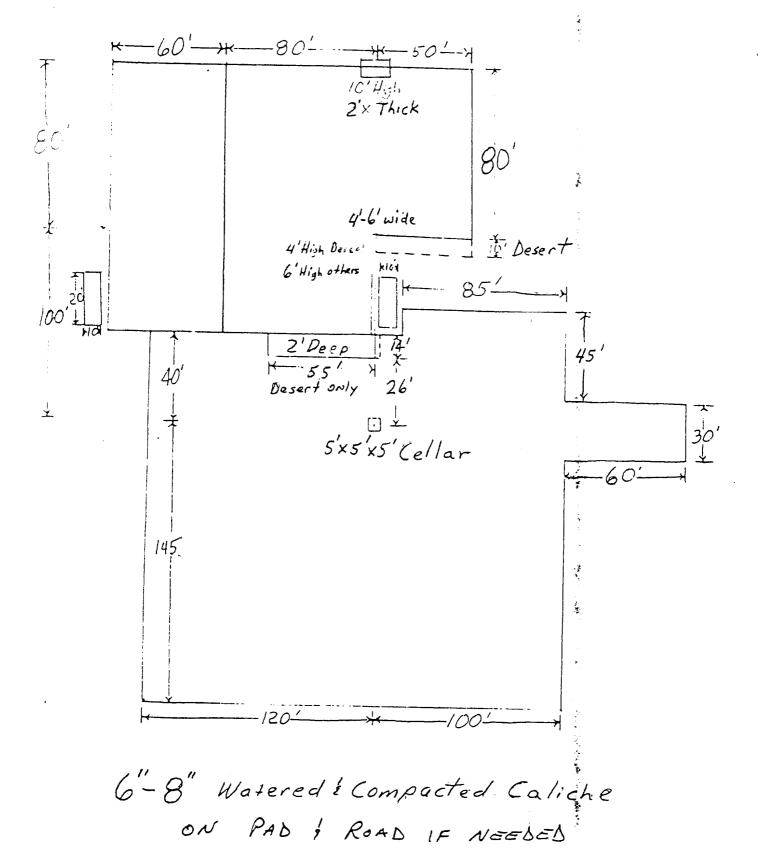
- 1. Applicable portions of the GENERAL REQUIREMENTS FOR OIL AND GAS OPERATIONS ON FEDERAL LEASES, Roswell District, Geological Survey of September 1, 1980 will be adhered to.
- Geological markers are estimated as follows:

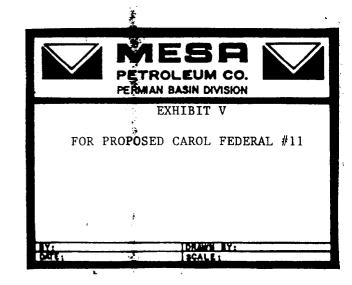
SEVEN RIVERS	Surface
SAN ANDRES	918
GLORIETA	1096
TUBB	2444
ABO	2829

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

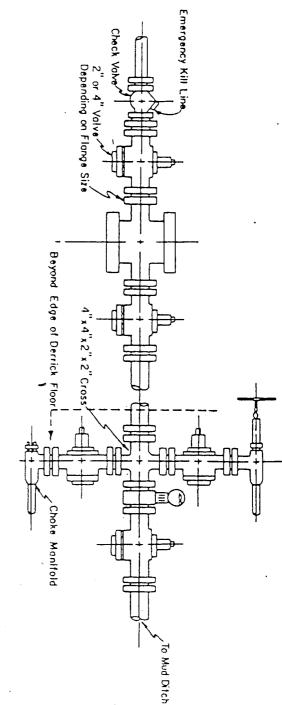








Blow-out Preventers hydril and choke manifold are all 900 Series



HYDRIL TOR BO

Fill Connection

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

Minimum assembly for 3,000 PSI working pressure will consist of three preventers. The bottom and middle preventers may be Cameron. DETAIL OF 4" FLOW LINE CHOKE ASSEMBLY

op Collor Wall

See Detail of A"Flow Line and Choke Assembly

NOTE:

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

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

