SERVER AND SOLE OF NIMO TO CONS. COMMISSION (Other actions on UNITED STATES ~side) mayor DD Artesia, NM 8821DEPARTMENT OF THE INTERIOR LEASE DESIGNATION AND SERIAL NO. **AMENDED GEOLOGICAL SURVEY** NM-36653 6. IF INDIAN, ALLOTTEE OR TRIBE NAME APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK 1a. TYPE OF WORK 7. UNIT AGREEMENT NAME DEEPEN [PLUG BACK DRILL 🗖 b. TYPE OF WELL RECEIVED PLE SINGLE ZONE WELL S. FARM OR LEASE NAME GAS WELL T OTHER 2. NAME OF OPERATOR CAROL FEDERAL 9 WELL NO MESA PETROLEUM CO. JUL <u>6</u> 1982 3. ADDRESS OF OPERATOR 4 1000 VAUGHN BUILDING/MIDLAND, TEXAS 79701-44**%**, C. D 10. FIELD AND POOL, OR WILDCAT 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) UNDESIGNATED ABO 990' FNL & 890' FEL NE¹4 NE¹4 A 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA At proposed prod. zone SAME SEC 24, T7S, R22E 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE. 12. COUNTY OR PARISH | 13. STATE 27 miles Northwest of Roswell, New Mexico CHAVES NEW MEXICO NO. OF ACRES ASSIGNED TO THIS WELL 15. DISTANCE FROM PROPOSED*
LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drig. unit line, if any) 1400'/760' 16. NO. OF ACRES IN LEASE 2441.2 <u> 160</u> 18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT. 2500* 19. PROPOSED DEPTH 20. ROTARY OR CABLE TOOLS ROTARY
22. APPROX. DATE WORK WILL START* 3400' 21. ELEVATIONS (Show whether DF, RT, GR, etc.) 4129' GR JUNE 30, 1982 23. PROPOSED CASING AND CEMENTING PROGRAM SIZE OF CASING WEIGHT PER FOOT SETTING DEPTH QUANTITY OF CEMENT SIZE OF HOLE 12 1/4" 8 5/8" 24# 14001 700/300 SURFACE 7 7/8" 4 1/2" 10.5# 3400**'** 300 COVER ALL PAY Propose to arill 14 3/4" hole with mud or air to approximately 950' and run 10 3/4" casing. Will cement to surface and test casing with cementing head to 600 psi. Will reduce hole to $9\frac{1}{2}$ " and drill on mud or air to approximately 1600' and run 7 5/8" casing if circulation has been lost and cement with sufficient amounts to tie-back to 10 3/4" casing. Will then reduce hole to $6\frac{1}{2}$ " or $6\frac{1}{4}$ ", test BOP's and casing and drill to total depth. If hole conditions are favorable, the 7 5/8" casing will be omitted and the hole will be reduced to 7 7/8" and drilled to total depth. Either $4\frac{1}{2}$ " or $5\frac{1}{2}$ " casing will be run as production casing depending upon hole size drilled to TD. Operator's gas sales are dedicated. NOTE: Location moved due to geology. 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 hew 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. $\overline{24}$. REGULATORY COORDINATOR 6-25-82 SIGNED TITLE DATE (This space for Ong. Sgd.) GEORGE H. STEWART PERMIT NO. APPROVAL DATE 1 1982 JUI_{\perp} APPROVED BY TITLE CONDITIONS OF APPROVAL, IF ANY:
JAMES A. CILLHAM DISTRICT SUPERVISOR *See Instructions On Reverse Side

NSL- 1553

STATE OF NEW MEXICO SANTA FE. NEW MEXICO 8750 Revised 10-1-78 ENERGY AND MINERALS DEPARTMENT All distances must be from the outer boundaries of the Section. Well No. prerotor Carol Federal Mesa Petroleum Co. Township Section will Letter Chaves 7 S. Α ctual l'astage Location of Well; 890 East 990 North line, and feet from the Dedicated Acreage: Producing Formation round Level Elev., 160 NE/4 UNDESIGNATED Acres 4129 AB0 1. Outline the acrenge 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? Il answer is "yes," type of consolidation _ No T Yes 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 knowledge and belief. 8901 E. MATHIS ESA REGULATORY COORDINATOR NM-36653 Company MESA PETROLEUM CO Sec. 24, T.7 S. R. 22 E., N.M.P.M. JUNE 25, 1982 I hereby certify that the well location shown on this plut was platted from field notes of octual surveys made by nie or true and correct to the best of my

1 300

1370

APPLICATION FOR PERMIT TO DRILL

MESA PETROLEUM CO.
CAROL FEDERAL #4

990' FNL & 890' FEL, SEC 24, T7S, R22E
CHAVES COUNTY, NEW MEXICO

LEASE NO. NM-36653

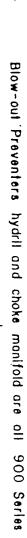
In conjunction with Form 9331-C, Application For Permit to Drill subject well, the following additional information is provided:

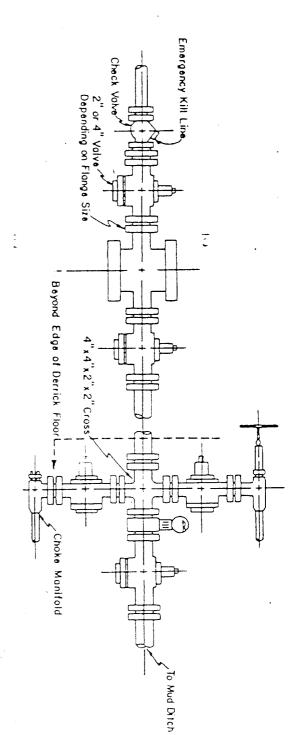
- 1. Applicable portions of the GENERAL REQUIREMENTS FOR OIL AND GAS OPERATIONS ON FEDERAL LEASES, Roswell District, Geological Survey of September 1, 1980 will be adhered to.
- 2. Geological markers are estimated as follows:

SEVEN RIVERS	Surface
SAN ANDRES	Surface
GLORIETA	576
TUBB	2126
ABO	2867

- 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.

4





HYDAIL TOK BOA

Fill Connection

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

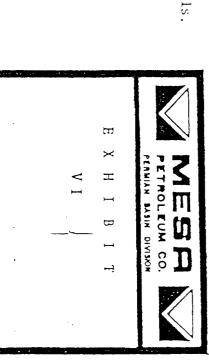
DETAIL OF 4" FLOW LINE CHOKE ASSEMBLY

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

op Coller Wall

See Detail of 4"Flow Line and Choke Assembly

NOTE: HYDRIL not installed on shallow-low pressure wells.



TAR Keldal

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