

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

AMENDED

## 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

RECEIVED  
ZONE ☒MULTIPLE  
ZONE ☐

2. NAME OF OPERATOR

Mesa Petroleum Co.

MAR 03 1983

3. ADDRESS OF OPERATOR

P.O. Box 2009 / Amarillo, TX 79189

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

At surface

1844' FNL &amp; 1907' FWL SE 1/4 NW 1/4

At proposed prod. zone

Same

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

27 miles NW from Roswell, New Mexico

15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.

660' / 660'

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

18. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

1320'

19. PROPOSED DEPTH

3500'

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

160

20. ROTARY OR CABLE TOOLS

Rotary

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

4120' GR

22. APPROX. DATE WORK WILL START\*

March 25, 1983

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 CIRCULATE
7 7/8"	4 1/2"	10.5#	3500'	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.

Note: Location moved for geological reasons.

APPROVAL SUBJECT TO  
GENERAL REQUIREMENTS AND  
SPECIAL STIPULATIONS  
ATTACHED

xc: MMS-R (O+6), CEN RCDS, ACCTG, ROSWELL, MIDLAND, PARTNERS, OPS (FILE)

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. E. Mathis

TITLE REGULATORY COORDINATOR

DATE 2-4-83

(This space for Federal or State office use)

PERMIT NO.

APPROVED

APPROVAL DATE

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

MAR 2 1983

JAMES A. GILLHAM  
DISTRICT SUPERVISOR

TITLE

DATE

1983

RECEIVED  
FEDERAL BUREAU OF SERVICE  
NEW MEXICO

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

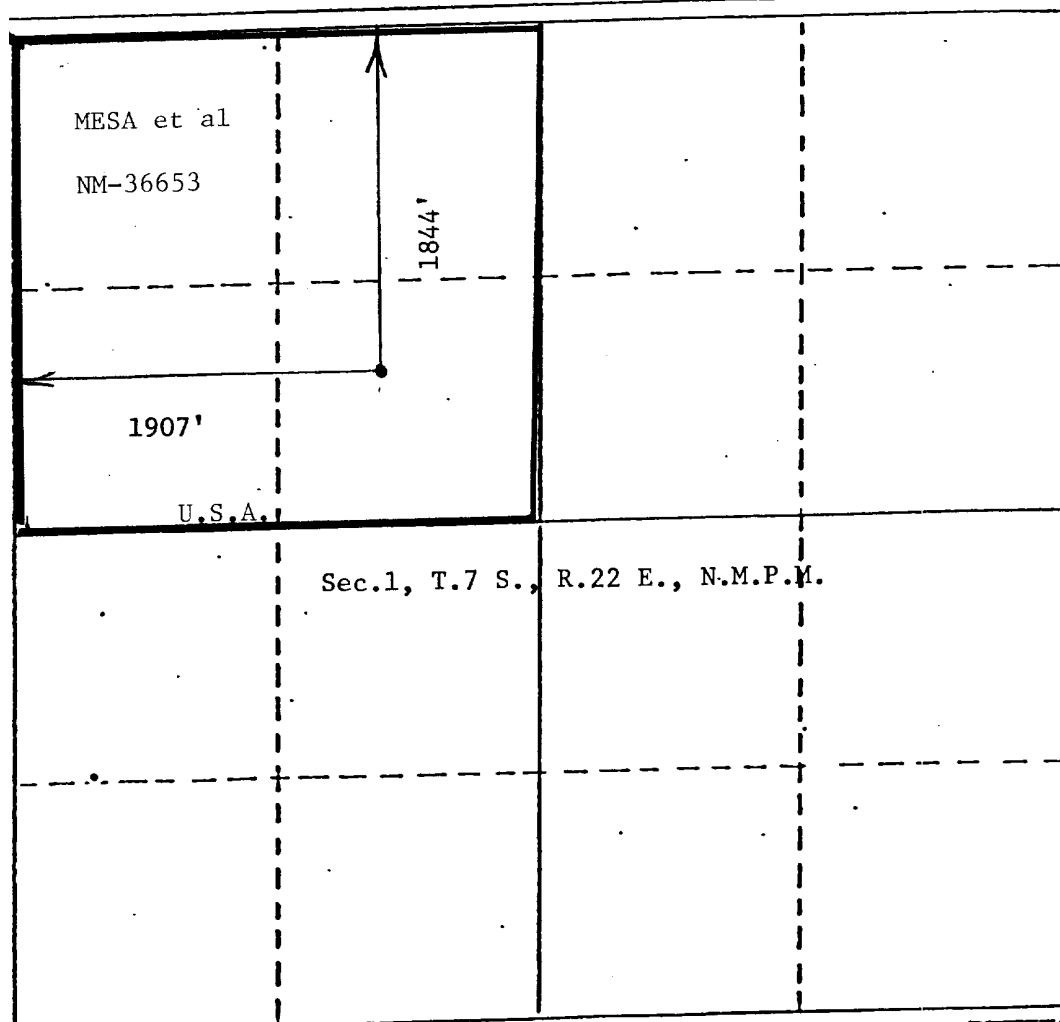
Operator <b>Mesa Petroleum Company</b>			Lease <b>Carol Federal</b>		Well No. <b>#5</b>
Well Letter <b>F</b>	Section <b>1</b>	Township <b>7 South</b>	Range <b>22 East</b>	County <b>Chaves</b>	
Actual Postage Location of Well: 1907 feet from the West line and 1844 feet from the North line					
Ground Level Elev. <b>4120</b>	Producing Formation <b>ABO</b>	Pool <b>West Pecos Slope</b>		Dedicated Acres: <b>NW 1/4 160 Acres</b>	

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

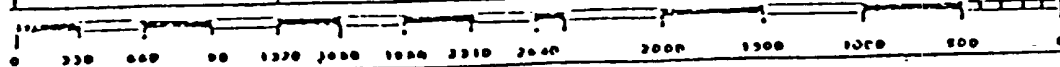
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

*R. E. Mathis*

Name  
**R. E. MATHIS**  
Position  
**REGULATORY COORDINATOR**  
Company  
**MESA PETROLEUM CO.**  
Date  
**2-4-83**

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. JAQUES**  
Date Surveyed  
**January 29, 1982**  
Registered Professional Engineer  
and/or Surveyor  
**John D. Jaques, P.E. & L.S.**  
Certificate No.  
**6290**

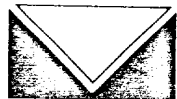
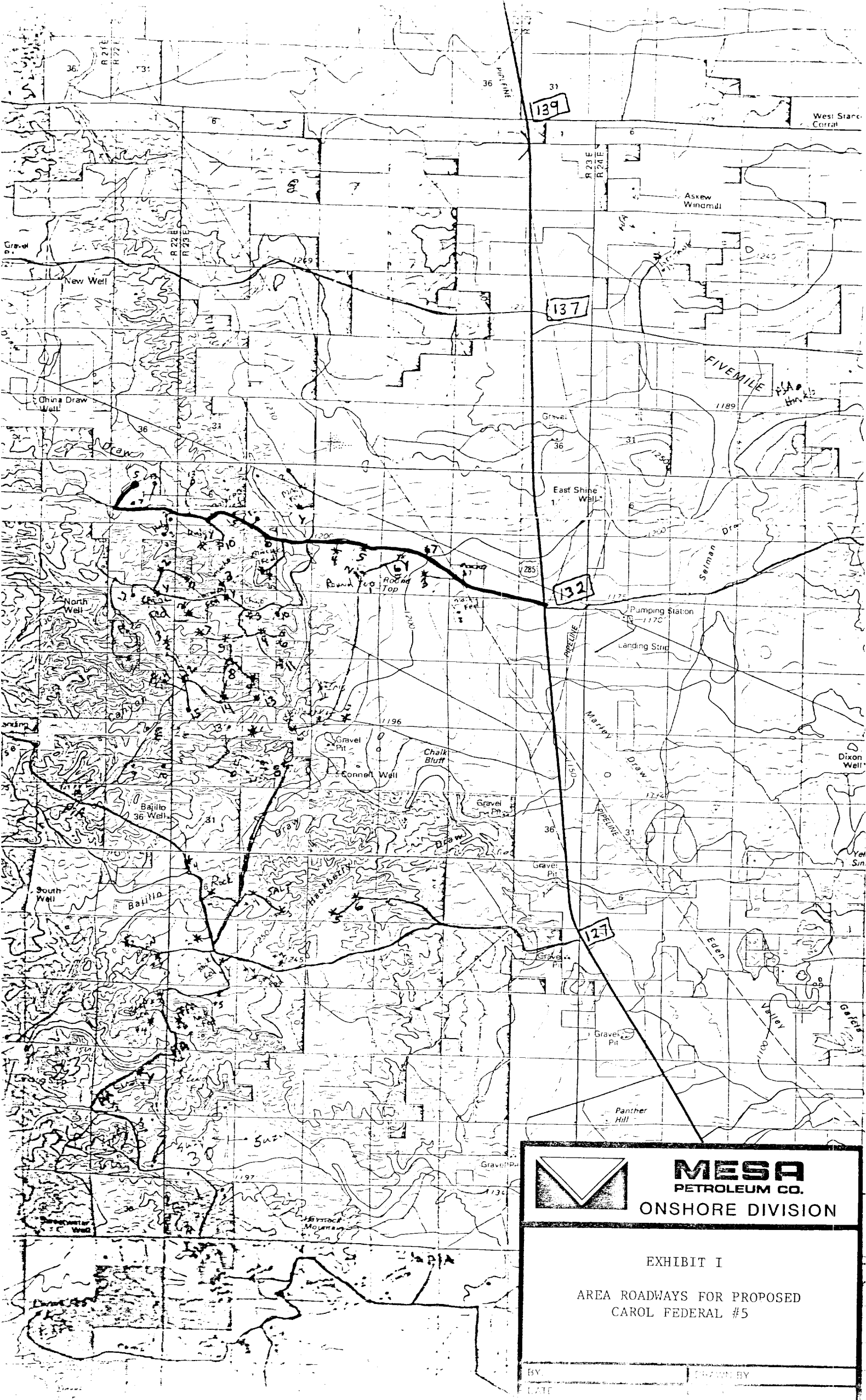


MESA PETROLEUM CO.  
CAROL FEDERAL #5  
1844' FNL & 1907' FWL, SEC 1, T7S, R22E  
CHAVES COUNTY, NEW MEXICO

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:

San Andres	Surface
Glorieta	630'
Tubb	2150'
ABO	2775'
3. Hydrocarbon bearing strata may occur in the ABO formation. 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 fresh water or mud 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 tests or coring program is planned. The logging program may consist of a GR-CNL from surface to 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.



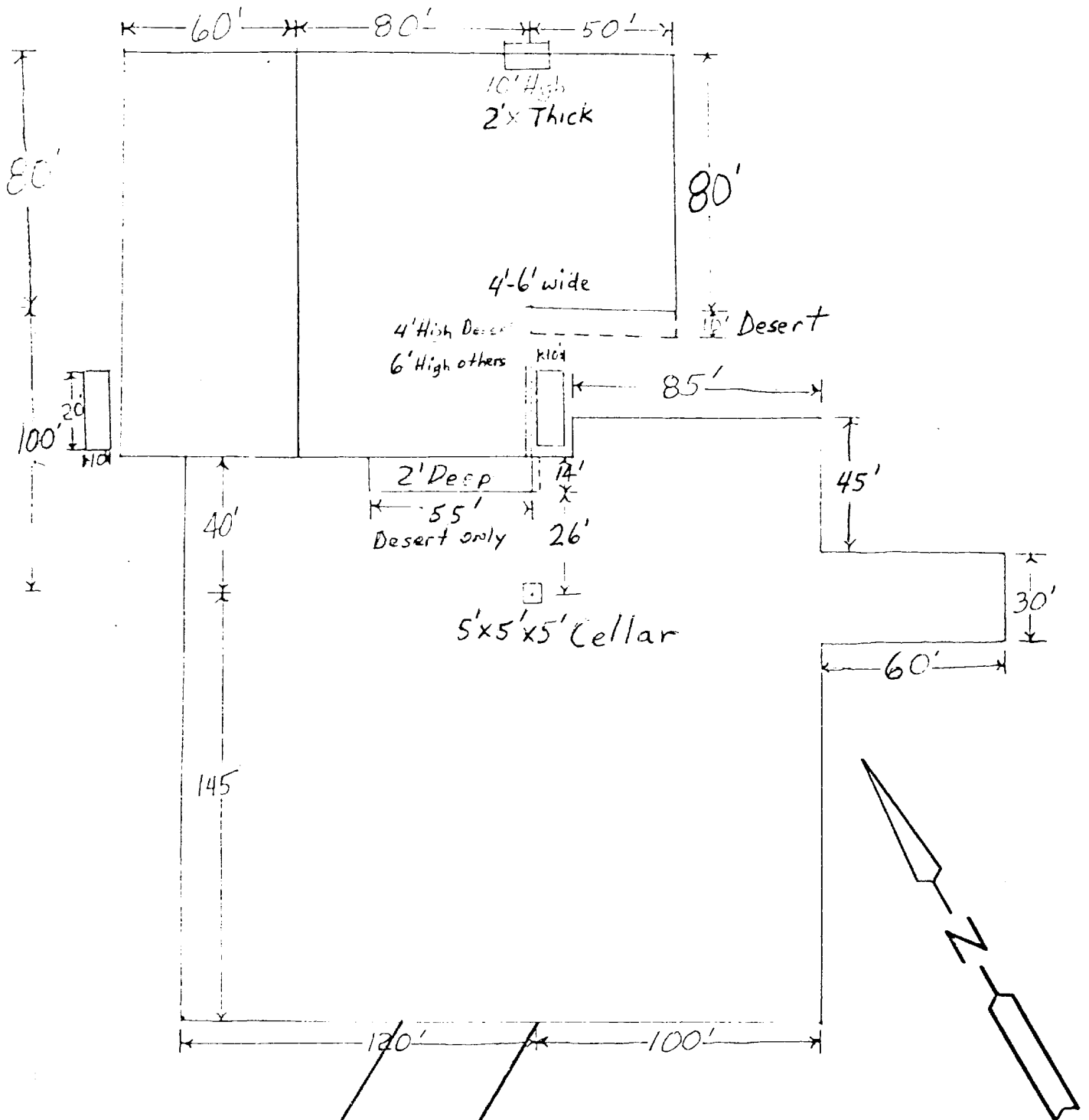
**MESA**  
PETROLEUM CO.  
ONSHORE DIVISION

EXHIBIT I

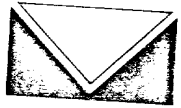
AREA ROADWAYS FOR PROPOSED  
CAROL FEDERAL #5

BY  
DATE

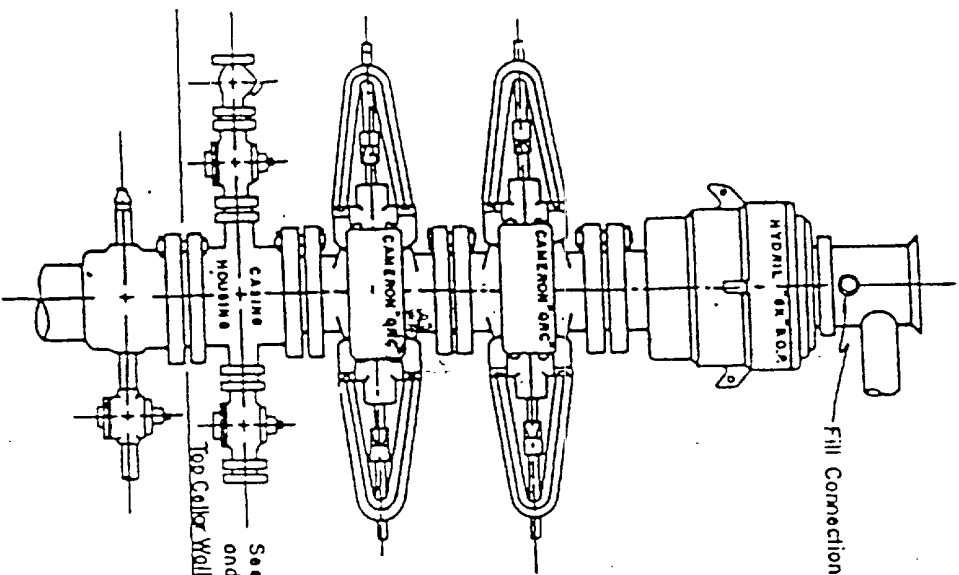
DRAWN BY



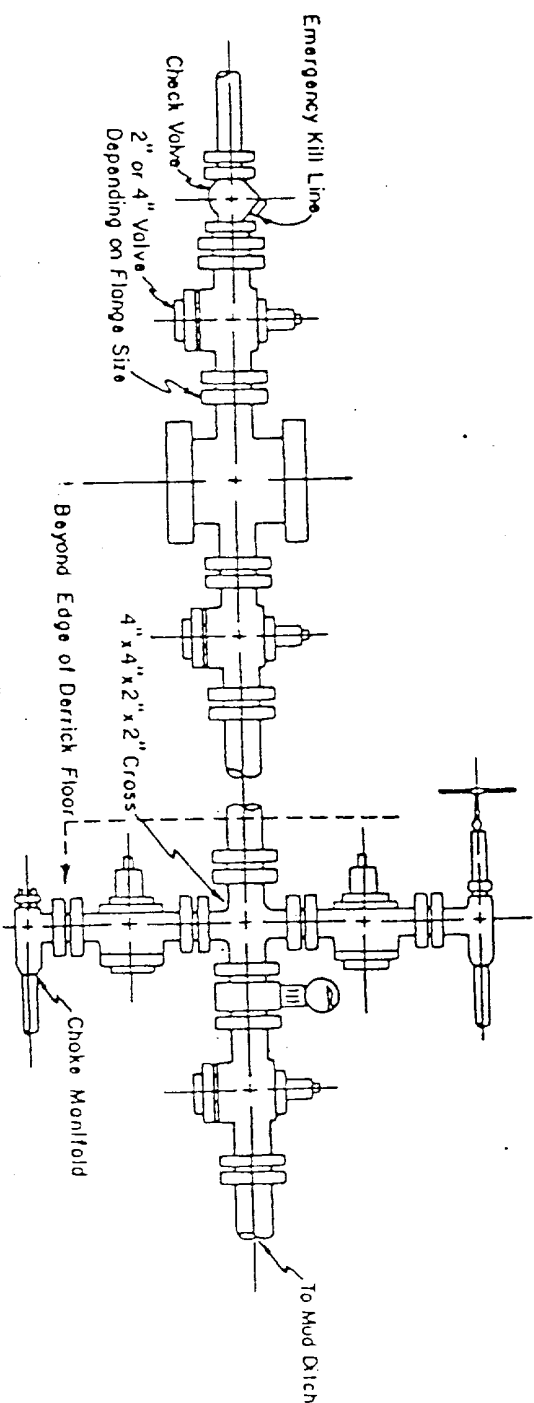
6"-8" Watered & Compacted Caliche  
on PAD & ROAD IF NEEDED

	
<b>MESA</b> PETROLEUM CO.	
ONSHORE DIVISION	
EXHIBIT V	
FOR PROPOSED CAROL FEDERAL #5	
BY	DRAWN BY:
DATE:	SCALE:

# 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.  
RAM type BOPs are API 10" X 3000 PSI



**M E S P**  
PETROLEUM CO.  
ONSHORE DIVISION

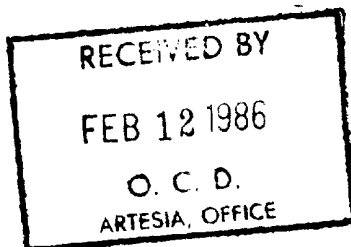
EXHIBIT VI

BY: \_\_\_\_\_ DRAWN BY: \_\_\_\_\_

DATE: \_\_\_\_\_ SCALE: \_\_\_\_\_

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT

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PERMATION OFFICE	



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

Form C-104  
Revised 10-01-78  
Format 06-01-83  
Page 1

REQUEST FOR ALLOWABLE  
AND  
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Operator Mesa Operating Limited Partnership	
Address P.O. Box 2009, Amarillo, Texas 79189	
Reason(s) for filing (Check proper box)	Other (Please explain)
<input type="checkbox"/> New Well <input type="checkbox"/> Recompletion <input checked="" type="checkbox"/> Change in Ownership	Change in Transporter of: <input type="checkbox"/> Oil <input type="checkbox"/> Dry Gas <input type="checkbox"/> Casinghead Gas <input type="checkbox"/> Condensate

If change of ownership give name and address of previous owner: Mesa Petroleum Co., P.O. Box 2009, Amarillo, Texas 79189

II. DESCRIPTION OF WELL AND LEASE

Lease Name STURGEON FED COM	Well No. 1	Pool Name, including Formation PECOS SLOPE ABO	Kind of Lease State <u>Federal</u> or Fee	Lease No. 19421
Location Unit Letter <u>D</u> : <u>660</u> Feet From The <u>NORTH</u> Line and <u>990</u> Feet From The <u>WEST</u>				
Line of Section <u>8</u> Township <u>7S</u> Range <u>26E</u> , NMPM, <u>CHAVES</u> County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input checked="" type="checkbox"/> Permian Corporation	Address (Give address to which approved copy of this form is to be sent) P.O. BOX 1183 / Houston, Texas 77001
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/> Transwestern Pipeline Co.	Address (Give address to which approved copy of this form is to be sent) P.O. BOX 2521 / Houston, Texas 77001
If well produces oil or liquids, give location of tanks. Unit <u>D</u> Sec. <u>8</u> Twp. <u>7</u> Rge. <u>26</u>	Is gas actually connected? <u>YES</u> When <u>10-8-82</u>

If this production is commingled with that from any other lease or pool, give commingling order number:

NOTE: Complete Parts IV and V on reverse side if necessary.

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given is true and complete to the best of my knowledge and belief.

R. E. Mathis  
(Signature)

REGULATORY AGENT

February 14, 1986 (Title)

(Date)

OIL CONSERVATION DIVISION

APPROVED FEB 28 1986

BY Original Signed By

Les A. Clements

TITLE Supervisor District II

This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allowable on new and recompleted wells.

Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition.

Separate Forms C-104 must be filed for each pool in multiply completed wells.

XC: NMOCD-(0+4), WF, CR, Reg.