

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY30-005-60818
5. LEASE DESIGNATION AND SERIAL NO.
NM - 27970

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

3. ADDRESS OF OPERATOR

1000 VAUGHN BUILDING/MIDLAND TX 79701

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

At surface

1980' FNL & 660' FWL

At proposed prod. zone

SAME

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

27 miles north/northeast of Roswell

15. DISTANCE FROM PROPOSED*
LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drg. unit line, if any)

1980'/660'

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

1320'

16. NO. OF ACRES IN LEASE

1600

19. PROPOSED DEPTH

4350'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

160

20. ROTARY OR CABLE TOOLS

ROTARY

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

3848.1' GR

22. APPROX. DATE WORK WILL START*

December 13, 1980

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#	550'	200"C/Sufficient to circulate
11"	8 5/8"	24#	1500'	200 "C"
7 7/8"	4 1/2"	10.5#	4350'	460 HLW/300 POZ"C"

Propose to drill 17 1/2" hole to 550', cement 13 3/8" casing, reduce hole to 11" drill to 1500' without BOPs or wellhead. After cementing 8 5/8" casing at 1500' and installing bradenhead, will nipple up 10" API 3000 psi BOPs and drill 7 7/8" hole to total depth of 4350' (A 10" spool will be used even if no casing is run.) Drilling fluid will consist of fresh water gel and soda ash from surface to 1500' and fresh water with caustic soda (pH 9.0 - 9.5) and chemicals for corrosion control to 3500' then mud up with starch and soda ash to total depth. After log evaluation, 4 1/2" casing may be run to total depth.

GHS NOT DEDICATED

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. Mathews CCO

TITLE

REGULATORY COORDINATOR

DATE

10-13-80

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

XC: USGS (6), TLS, JRW, CEN RCDS, ACCTG, MEC, JBH, PARTNERS, FILE

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form 1-11-77
Supersedes 6-12-78
Effective 1-1-78

All distances must be from the outer boundaries of the Section

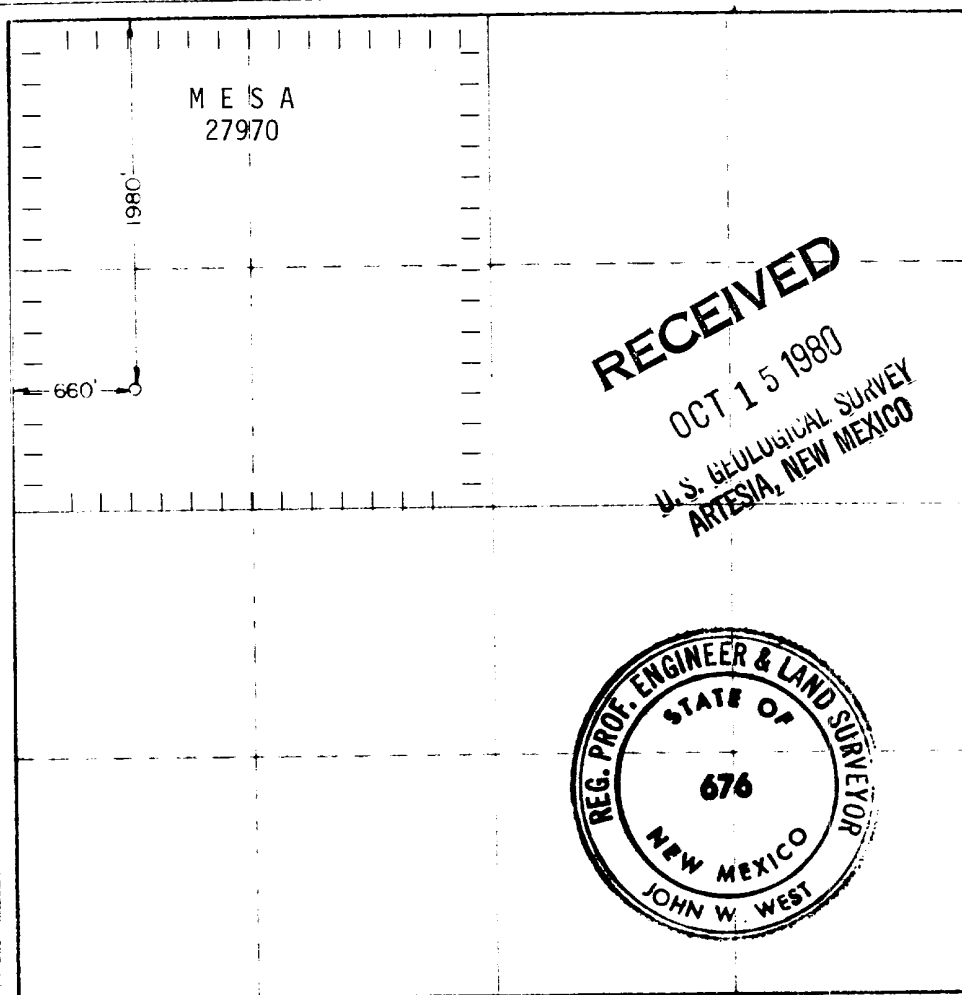
Mesa Petroleum Co.			Lease		Coyote Federal	4	
Section	20	Township	7 South	Range	25 East	Chaves	
Annual Production in this well	1980	feet from the	North	line and	660	feet from the	West
Ground Level Elev.	3848.1	Producing Formation	ABO	Pool/Unit	UNDESIGNATED	Section	NW/4
						160	

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 Commission.



CERTIFICATION

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

R. E. Mathis

R. E. MATHIS

REGULATORY COORDINATOR

MESA PETROLEUM CO

10-10-80

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.

August 14, 1980

Registered Professional Surveyor
and Land Surveyor

John W. West

Certificate No. JOHN W. WEST 676
PATRICK A. ROMERO 6683
Ronald J. Edson 3239

43 660 90 1320 1650 1980 2310 2640 2980 3300 3620 3950 4280 4600 4920 5240 5560 5880 6200 6520 6840 7160 7480 7800 8120 8440 8760 9080 9400 9720 10040 10360 10680 11000 11320 11640 11960 12280 12600 12920 13240 13560 13880 14200 14520 14840 15160 15480 15800 16120 16440 16760 17080 17400 17720 18040 18360 18680 19000 19320 19640 19960 20280 20600 20920 21240 21560 21880 22200 22520 22840 23160 23480 23800 24120 24440 24760 25080 25400 25720 26040 26360 26680 27000 27320 27640 27960 28280 28600 28920 29240 29560 29880 30200 30520 30840 31160 31480 31800 32120 32440 32760 33080 33400 33720 34040 34360 34680 35000 35320 35640 35960 36280 36600 36920 37240 37560 37880 38200 38520 38840 39160 39480 39800 40120 40440 40760 41080 41400 41720 42040 42360 42680 43000 43320 43640 43960 44280 44600 44920 45240 45560 45880 46200 46520 46840 47160 47480 47800 48120 48440 48760 49080 49400 49720 50040 50360 50680 51000 51320 51640 51960 52280 52600 52920 53240 53560 53880 54200 54520 54840 55160 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APPLICATION FOR DRILLING

MESA PETROLEUM CO
COYOTE FEDERAL #4
1980' FNL & 660' FWL SEC 20, T7S, R25E
CHAVES COUNTY, NEW MEXICO

LEASE NO: NM - 27970

In conjunction with Form 9-331 C, Application for Permit to Drill subject well, the following items of pertinent information are submitted in accordance with U.S.G.S. requirements:

1. The geologic surface formation is Seven Rivers.
2. Estimated tops of geological markers are as follows:

San Andres	475'
Glorieta	1360'
Tubb	2905'
Abo	3565'
Hueco	4270'

3. The estimated depths at which anticipated water, oil, or gas formations are expected to be encountered:

Water - San Andres at approximately 600' - brackish in this area
Gas - Abo at approximately 3900'

4. Casing and Blowout Preventer Program

Surface: 550' of 13 3/8", 48#, H40, ST&C casing cemented with 200 sx Class "C" + 2% CaCl around the casing shoe with sufficient additional cement to circulate to surface. Cement will be circulated using conventional methods and/or redimix down the annulus if necessary. Will install flowline, but no BOPs and drill out the cement inside the casing after WOC approximately 8 hours.

Intermediate: 1500' of 8 5/8", 24#, K55, ST&C casing cemented with 200 sacks Class "C" + 2% CaCl.

NOTE: This string may be omitted if conditions are favorable. In any event, a 10" API 3000 psi spool with 2" API 2500 psi ball valve will be installed and then we will nipple up 10" API 3000 psi WP double BOP with pipe rams (bottom) and blind rams and test to 600 psi for 30 minutes. Drill 7 7/8" hole to total depth.

Application for Permit to Drill

Page 2

Production: 4350' of 4 1/2", 10.5#, K-55, ST&C casing cemented with types and volume sufficient to cover all pay intervals. Choke, kill, and fill lines are indicated on Exhibit I. BOPs will be tested prior to drilling below the 8 5/8" casing. A full opening safety valve, to fit below the 8 5/8" casing. A full opening safety valve, to fit the drill string in use, will be kept on the rig floor at all times. The kelly cock, safety valve, choke and kill lines will be tested at the same time that BOPs tests are run. Operational opening and closing checks on all BOPs will be run on each trip, with daily operational check of pipe rams.

5. Circulating medium and control equipment

0'-1500' Use fresh water spud mud with fresh water gel and soda ash or lime. Treat with lost circulation material as hole conditions dictate. If total loss of circulation occurs, mix 2 or 3 viscous slugs with LCM and attempt to regain circulation. If unsuccessful, consider drilling without returns to casing point and spot 150+ bbls viscous slug treated with LCM on bottom to run pipe.

1500'-3000' Drill out 8 5/8" casing (if set) with fresh water circulating reserve pit. Add caustic soda for pH 9.0 - 9.5 and chemicals for corrosion control. Mix paper as needed to control seepage or to sweep the hole.

3000'-4350' Maintain mud weight less than 10 ppg with additions of fresh water while keeping chloride-ion concentration of 40,000 - 50,000 + ppm and KCL 3.0%. At 3500 mud up with starch and soda ash to control API water loss to 20 - 25 cc to TD. Sea Mud or Salt Water Gel will be added to sweep hole or to raise viscosity of system sufficiently to clean hole to run logs and casing.

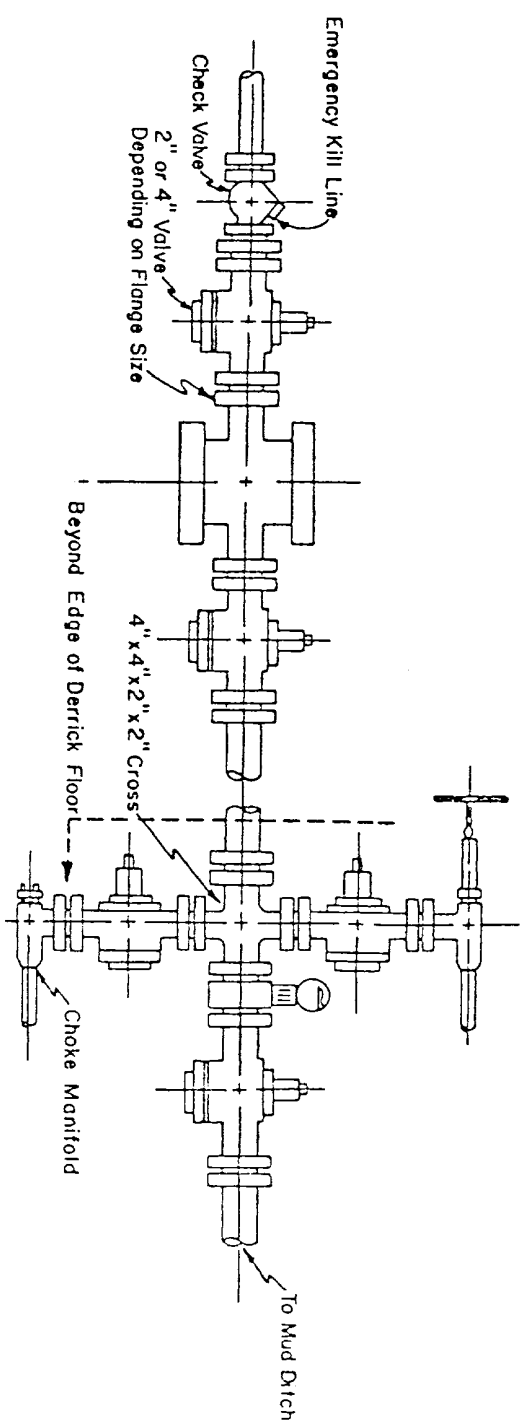
6. There is no coring program or drill stem tests planned for this well. The logging program may consist of a gamma ray log from total depth to surface, compensated neutron-density-caliper log and dual laterolog-micro spherically focused log run from 1600' to total depth.

Application for Permit to Drill

Page 3

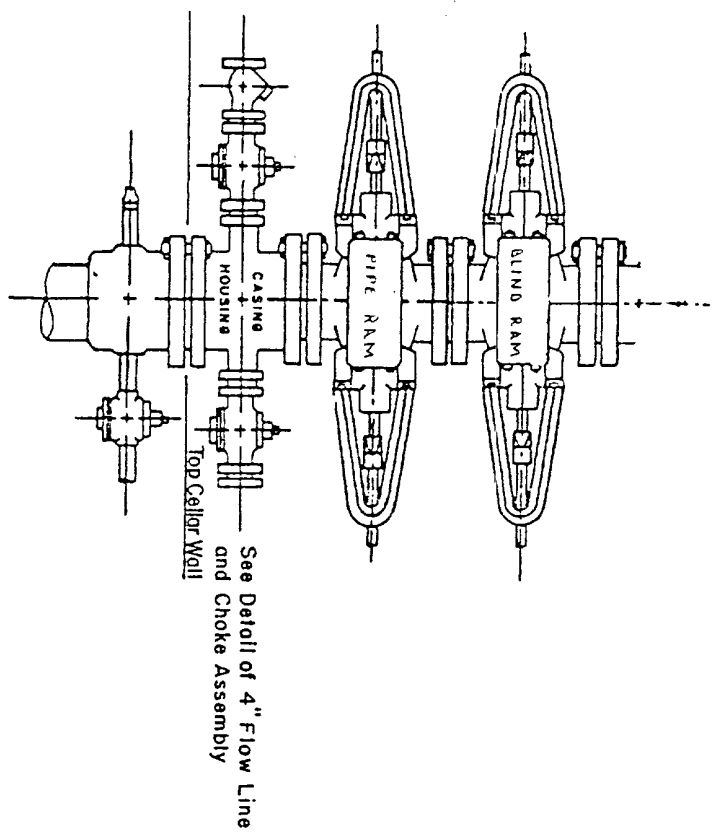
7. Maximum anticipated bottom hole pressure is 1500 psi at 4400' based upon bottom hole pressure on other area wells. Mud weight required to offset this pressure is 9.0 ppg. It is probable that leaching of expected salt stringers could increase the mud weight to 10.0 - 10.2 ppg. Bottom hole temperature should not exceed 120°F. No sour gas is expected.
8. Anticipated spud date is December 13, 1980, with completion of drilling operations expected by December 21, 1980. Completion operations (perforations and stimulation) will follow successful drilling operations as soon as a completion unit is available.

Blow-out Preventers and choke manifold are all 900 Series





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.

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



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



Mudco
PETROLEUM CO.
PERMIAN BASIN DIVISION

EXHIBIT I

BLOWOUT PREVENTER SCHEMATIC FOR

DATE	
BY	

MULTI-POINT SURFACE USE AND OPERATION PLAN

MESA PETROLEUM CO

COYOTE FEDERAL #4
1980' FNL & 660' FWL, SEC 20, T7S, R25E
CHAVES COUNTY, NEW MEXICO

LEASE: NM-27970

RECEIVED
OCT 15 1980
U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

This plan is submitted with the Application for Permit to Drill the above described well. The purpose of this plan is to describe the location of the proposed well, the proposed construction activities and operational plan in both the actual and post drilling-completion operations.

1. Existing Roads

- A. Exhibit II is a portion of a highway map showing the location of the proposed well as staked. The proposed well is approximately 27 miles north/northeast of Roswell, New Mexico.
- B. Directions: Travel North from Roswell on U.S. Highway 285 for 7.5 as measured from the overpass of US Hwy 70, just past mile 122 marker, then travel East/Northeast for 13 miles on the "RED BLUFF RANCH" Road. Turn West at the improved lease road just South of an old corral and follow in a Westerly direction for approximately 6 miles turning due South (just past Windmill on Southside of road) for 1/2 mile then East to the location.

2. Planned Access Road

- A. Length and width: The new access road will be 12' wide (16' ROW) and approximately 3600' of new road.

(See Exhibit III for details)

- B. Construction: The new road will be constructed by grading and topping with compacted caliche. The surface will be crowned, with drainage on both sides. (See Exhibit IV)
- C. Culverts, Gates, and Cattleguards: One shallow water crossing will be required.
- D. Cut and Fill: In order for the location to be level, approximately 3' of cut from the South side will be moved to the Northside for fill. Also, a diversion dam and new channel may be required to divert an arroyo around the Northwest corner of the location pad.

3. Location of Existing Wells

Existing wells within a one-mile radius are depicted by Exhibit V.

4. Location of Existing and/or Proposed Facilities

If the well proves to be commercial, the necessary production facilities, gas separation-process equipment and tank battery, will be installed on the drilling pad.

5. Location and Type of Water Supply

It is planned to drill the proposed well with fresh water. The water will be obtained from commercial sources and will be trucked to the well site over the existing roads and the proposed access road shown on Exhibits II and III.

6. Source of Construction Materials

Caliche for surfacing the road and the wellsite pad will be obtained by the dirt contractor from the Federal Government or private sources. Top soil from the location will be stockpiled near the location for future rehabilitation use. No surface materials will be disturbed except for those necessary for the actual grading and leveling of the drillsite and access road.

7. Methods of Handling Waste Disposal

- A. Drill cuttings will be disposed of in the reserve pits.
- B. Drilling fluids will be allowed to evaporate in the reserve pits until the pits are dry.
- C. All pits will be fenced with normal fencing material to prevent livestock from entering the area.
- D. Water produced during operations will be collected in tanks until hauled to an approved disposal system, or separate disposal application will be submitted to the USGS for approval.
- E. Current laws and regulations pertaining to the disposal of human waste will be complied with.
- F. Trash, waste paper, garbage and junk will be buried in a separate trash pit and covered with a minimum of 24 inches of dirt. All waste material will be contained to prevent scattering by the wind.
- G. All trash and debris will be buried or removed from the wellsite within 30 days after finishing and/or completion operations.

8. Ancillary Facilities: None required.

9. Wellsite Layout:

A. Exhibit VI shows the relative location and dimensions of the well pad, reserve pits, and major rig components. The pad and pit area has been staked and flagged.

B. Some leveling of the wellsite will be required. See Exhibit IV for additional details.

C. The reserve pit will be plastic lined.

10. Plans for Restoration of the Surface:

A. After completion of drilling and/or completion operations all equipment and other material not needed for operations will be removed. Pits will be filled and location cleaned of all trash and junk to leave the well-site in an aesthetically pleasing a condition as possible.

B. Any unguarded pits containing fluids will be fenced until they are filled.

C. If the proposed well is non-productive, all rehabilitation and/or vegetation requirements of the Bureau of Land Management and the United States Geological Survey will be complied with and will be accomplished as expeditiously as possible. All pits will be filled and leveled within 90 days after abandonment, if drying conditions permit.

11. Other Information:

A. Topography: The land surface in the vicinity of the wellsite is gently sloping to the North.

B. Soil: The topsoil at the wellsite is sandy loam.

C. Flora and Fauna: The vegetative cover consists of Tabosa and other prairie grasses, creosote bush, yucca, cactus, prairie flowers and other miscellaneous desert growth. Wildlife in the area probably includes those typical of semi-arid desert land. The area is used for cattle grazing.

D. Ponds and Streams: There are no rivers, streams, lakes, or ponds in the area but Coyote Draw is 1/2 mile to the North of the location.

- E. Residences and Other Structures: There are no residences or other structures in the vicinity of the proposed well.
- F. Land Use: Cattle grazing.
- G. Surface Ownership: The wellsite is on Federal surface.
- H. There is no evidence of any major archeological, historical, or cultural sites in the area. NMAS, Inc. has conducted an archeological study of this site and provides this report to interested parties.

12. Operator's Representatives:

- A. The field representatives responsible for assuring compliance with the approved surface use and operations plan are as follows:

J. R. Wootten
P. O. Box 1756
Hobbs, New Mexico 88240
(505-393-4425) - Office
(505-393-6033) - Home

C. C. Wheeler
1000 Vaughn Building
Midland, Texas 79701
(915-683-5391) - Office
(915-683-6123) - Home

13. Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge true and correct; and, that the work associated with the operations proposed herein will be performed by Mesa Petroleum Co and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

Oct 13, 1980

Date

Michael P. Houston

Michael P. Houston
Operations Manager

