

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## 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

3. ADDRESS OF OPERATOR

Box 2009; Amarillo, Texas 79105

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
At surface 790' FSL & 1650' FEL

At proposed prod. zone

SAME

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

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

16. NO. OF ACRES IN LEASE

1061.34

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

19. PROPOSED DEPTH

5770

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

MV 320, PC 160-167

20. ROTARY OR CABLE TOOLS

Rotary

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

6422

22. APPROX. DATE WORK WILL START\*

March 10, 1978

23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2	10 3/4 (news)	40.5	200	400 sk.
8 1/2	7 (new)	23.0	3250	300 sk.
6 1/4	4 1/2 (new)	10.5	5770	320 sk.

Move in and rig up rotary tools.

Drill 17 1/2" hole to 200' using spud mud. Run and cement 10 3/4" surface casing as above. Prior to drilling out from under surface, a 900 series blow out preventer will be installed and tested. Other safety equipment used will be a stabbing valve at the surface and drill pipe float and check valve while gas drilling.

An 8 1/2" hole will be drilled to 3500' using Gel-Chem mud with the following properties: wt. 9.1, vis. 35, w.l. 10±. Open hole logs, IES and FOC-CNL will be run to determine if the Pictured Cliffs is productive. The 7" casing will be run and cemented as above.

A 6 1/4" hole will be gas drilled from under the intermediate to tid. Open hole logs, Gamma Ray, will be run. If commercial, the 4 1/2" liner will be run and cemented as above. If noncommercial the well will be plugged according to U.S.G.S. specifications.

No abnormal pressures or temperatures are expected. No hazardous gases are expected.

Gas under this lease is dedicated to a contract.

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

*John Alexander*

TITLE Agent

DATE 2-24-78

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

*OK**write PC - NW 1/4  
NW 1/4 - 167 (MV)*

\*See Instructions On Reverse Side

5. LEASE DESIGNATION AND SERIAL NO.

SF-078-119

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Suter

9. WELL NO.

2A

10. FIELD AND POOL OR WMDCAT

Blanco Mesa Verde  
Blanco Pictured Cliffs-Ext.11. SEC., T., R., M., OR BLK.  
AND SURVEY OR AREA

Sec. 12, T32N, R11W

12. COUNTY OR PARISH 13. STATE

San Juan

NM

333.60

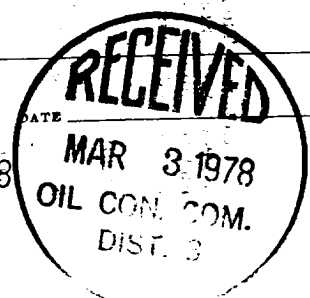
MV 320, PC 160-167

20. ROTARY OR CABLE TOOLS

Rotary

22. APPROX. DATE WORK WILL START\*

March 10, 1978



NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102  
Supersedes C-128  
Effective 1-1-65

All distances must be from the outer boundaries of the Section

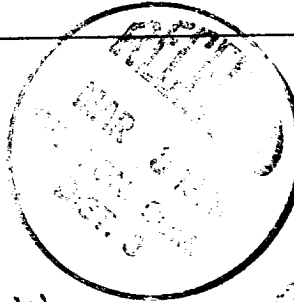
Operator <b>Mesa Petroleum Company</b>			Lease <b>Suter</b>		Well No. <b>2 A</b>
Unit Letter <b>0</b>	Section <b>12</b>	Township <b>32N</b>	Range <b>11W</b>	County <b>San Juan</b>	
Actual Footage Location of Well: <b>790</b> feet from the <b>South</b> line and <b>1650</b> feet from the <b>East</b> line					
Ground Level Elev. <b>6422</b>	Producing Formation <b>Mesa Verde Pictured Cliffs</b>		Pool <b>Blanco Pictured Cliffs-Ext</b>	Dedicated Acreage: <b>334.60</b> <b>MV 320, PC 160</b>	

1. Outline the acreage 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?

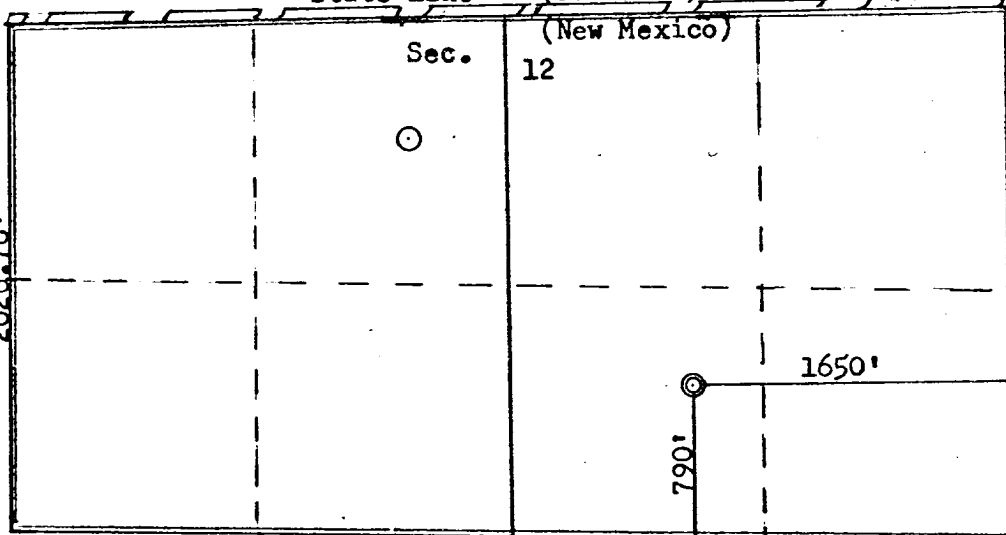
☐ Yes ☐ No If answer is "yes," type of consolidation \_\_\_\_\_

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.



State Line (Colorado)  
(New Mexico)  
Sec. 12



5177.7'

Scale: 1"=1000'

CERTIFICATION

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

John Alexander

Name	Agent
Position	Mesa Petroleum
Company	2-24-78
Date	<i>John Alexander</i>

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.

Date Surveyed	February 7, 1978
Registered Professional Engineer and Land Surveyor	<i>Fred B. Kerr Jr.</i>
Certificate No.	3950