

N.M.O.C.D. COPY  
UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYSUBMIT IN TRI. DATE\*  
(Other instructions on re-  
verse side)Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

NM-36410

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Hobbs Federal

9. WELL NO.

1

10. FIELD AND POOL OR WILDCAT

Wildcat Pool  
Undesignated Abo11. SEC., T., R., M., OR BLK. AND  
SURVEY OR AREA

Sec 8, T6S, R25E

12. COUNTY OR PARISH

Chaves

13. STATE

New Mexico

## SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

RECEIVED

1. OIL ☐ GAS ☒ OTHER ☐  
WELL WELL

2. NAME OF OPERATOR

Mesa Petroleum Co

3. ADDRESS OF OPERATOR

1000 Vaughn Building/Midland, Texas

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)

At surface 1980' FNL &amp; 1980' FEL

14. PERMIT NO.

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

4071.5' GR

16.

## Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

## NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☐(Other) ☐PULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐ABANDON\* ☐CHANGE PLANS ☐

## SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐FRACTURE TREATMENT ☐SHOOTING OR ACIDIZING ☐(Other) ID'd and 4 1/2" csg & cmt ☒REPAIRING WELL ☐ALTERING CASING ☐ABANDONMENT\* ☐(NOTE: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any  
proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones perti-  
nent to this work.)\*

Drilled 7 7/8" hole to TD of 4300' on 5-14-81. Ran 105 jts 4 1/2", 10.5#, K-55 casing set at 4299'. Cemented with 500 sx LT + 10# salt + 1# flocele and tailed in with 300 sx 50 50 Pozmix + 8# salt + 3/10% CFR-2. PD at 6:00 PM, 5-15-81. Cement did not circulate. TOC @ 300'. Released rig at 11:00 PM 5-15-81. WOCU estimated to arrive 6-15-81.

ACCEPTED FOR RECORD  
ROGER A. CHAPMAN

MAY 22 1981

U.S. GEOLOGICAL SURVEY  
ROSWELL, NEW MEXICORECEIVED  
MAY 22 1981  
OIL & GAS  
U.S. GEOLOGICAL SURVEY  
ROSWELL, NEW MEXICO

XC: USGS (3), TLS, ROSWELL, MEC, PARTNERS, FILE, CEN RCDS, ACCTG, LAND

18. I hereby certify that the foregoing is true and correct

SIGNED

P. P. Nathan

TITLE

REGULATORY COORDINATOR

DATE

MAY 21, 1981

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

## Instructions

**General:** This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**Item 17:** Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

U.S. GOVERNMENT PRINTING OFFICE: 1983-O-885229

947-485

Form 9-331  
(May 1963)UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYSUBMIT IN TRIPLICATE\*  
(Other instructions on re-  
verse side)Form approved.  
Budget Bureau No. 42-R1424.

C/SF

## SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. NM 36410	
2. NAME OF OPERATOR MESA PETROLEUM CO./		6. IF INDIAN, ALLOTTEE OR TRIBE NAME RECEIVED MAY 25 1981	
3. ADDRESS OF OPERATOR 1000 VAUGHN BUILDING/MIDLAND, TEXAS 79701		7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1980' FNL & 1980' FEL		8. FARM OR LEASE NAME HOBBS FEDERAL	
14. PERMIT NO.		9. WELL NO. 1	
15. ELEVATIONS (Show whether DF, RT, etc.) 4071.5' GR		10. FIELD AND POOL, OR WILDCAT Wildcat Perm UNDESIGNATED ABO	
		11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA SEC 8, T6S, R25E	
		12. COUNTY OR PARISH CHAVES	
		13. STATE NEW MEXICO	

## 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

## NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON\*

REPAIR WELL

CHANGE PLANS

(Other)

## SUBSEQUENT REPORT OF:

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT\*

(Other)

SPUD &amp; 8 5/8" CSG

(NOTE: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Spudded well with 12 1/4" hole on 5-9-81. Hit fresh water estimated at 3 BPH at 110' and 20 BPH at 1000', turned brackish at 1300'. Drilled to 1962' and ran 49 jts 8 5/8", 24#, K-55 casing set at 1960'. Cemented with 300 sx LT + 1/4# flocele + 4% CaCl, 100 sx Thixset + 4% CaCl, 300 sx LT + 4% CaCl, 100 sx Thixset + 4% CaCl, and tailed in with 300 sxs "C" + 4% CaCl. PD at 5:00 PM 5-11-81. Cement did not circulate. TOC at 450'. Set six plugs with total of 1150 sx Thixset + 4% CaCl. Circulated 30 sx. Reduced hole to 7 7/8" and drilled ahead on 5-13-81.

ACCEPTED FOR RECORD  
ROGER A. CHAPMAN

MAY 21 1981

U.S. GEOLOGICAL SURVEY  
ROSWELL, NEW MEXICO

XC: USGS (3), TLS, ROSWELL, MEC, PARTNERS, FILE, CEN RCDS, ACCTG, LAND

18. I hereby certify that the foregoing is true and correct

SIGNED

TITLE

REGULATORY COORDINATOR

DATE

MAY 19, 1981

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

30-005-60846

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.

NM - 36410

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

RECEIVED

8. FARM OR LEASE NAME JAN 14 1981  
HOBBS FEDERAL

9. WELL NO. O. C. D.

10. FIELD AND POOL, OR WILDCAT ARTESIA OFFICE

WILDCAT

11. SEC., T., R., M., OR BLK.  
AND SURVEY OR AREA

SEC 8, T6S, R25E

12. COUNTY OR PARISH CHAVES

13. STATE  
NEW MEXICO

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

NESA PETROLEUM CO.

3. ADDRESS OF OPERATOR

1000 VAUGHN BUILDING/MIDLAND, TEXAS 79701

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

At surface

1980' FNL &amp; 1980' FEL

At proposed prod. zone

SAME

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

39 MILES NORTH OF ROSWELL

15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)

660'

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

N/A

19. PROPOSED DEPTH

5300'

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

320

20. ROTARY OR CABLE TOOLS

ROTARY

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

4071.5' GR

22. APPROX. DATE WORK WILL START\*

JANUARY 25, 1981

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#	800'	CIRCULATE TO SURFACE
11"	8 5/8"	24#	1500'	SUFFICIENT TO ISOLATE WATER, O&G
7 7/8"	4 1/2"	10.5#	5300'	SUFFICIENT TO COVER ALL PAY

Propose to drill 17 1/2" surface hole to 800' or deeper with air to set 13 3/8" surface casing. Will reduce hole to 11" and continue drilling with air using rotating head for well control to 1500' or deeper to set 8 5/8" casing. Will install ram type BOP's and drill 7 7/8" hole to total depth using air, mist, foam, or mud as required. After log evaluation, 4 1/2" production casing may be run and cemented with sufficient amounts and kinds of cement to isolate and seal off all water, oil, or gas strata encountered down to the casing point.

Gas sales are not dedicated.

XC: USGS (6), TLS, HOBBS OFFICE, CEN RCDS, ACCTG, MEC, MAH, PARTNERS, 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. March

TITLE

REGULATORY COORDINATOR

DATE

JANUARY 2, 1981

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

(Orig. &amp; 4) GEORGE H. STEWART

ACTING DISTRICT ENGINEER

JAN 03 1981

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION AT

Form C-102  
Supersedes C-128  
Effective 1-1-83

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

Operator <b>Mesa Petroleum Co.</b>			Lease <b>Hobbs Fed.</b>		Well No. <b>1</b>
Unit Letter <b>G</b>	Section <b>8</b>	Township <b>6 South</b>	Range <b>25 East</b>	County <b>Chaves</b>	
Actual Footage Location of Well: <b>1980</b> feet from the <b>north</b> line and <b>1980</b> feet from the <b>east</b> line					
Ground Level Elev. <b>4071.5</b>	Producing Formation <b>480/PENN</b>		Pool <b>WILDCAT Penn</b>	Dedicated Acreage: <b>N/2 320</b> Acres	

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, force-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.

MESA 36410		1980'	
<b>RECEIVED</b> <b>JAN 5 1981</b> <b>D.S. GEOLOGICAL SURVEY</b> <b>ARTESIA, NEW MEXICO</b>			

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

JANUARY 2, 1981

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

Nov. 19, 1980

Registered Professional Engineer and/or Land Surveyor

*John W. West*

JOHN W. WEST  
676  
NEW MEXICO  
ARTESIA, N.M.

APPLICATION FOR DRILLING  
MESA PETROLEUM CO.  
HOBBS FEDERAL #1  
1980' FNL & 1980' FEL, SEC 8, T6S, R25E  
CHAVES COUNTY, NEW MEXICO  
LEASE NO. NM-36410

In conjunction with Form 9-331C, 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	752
Glorieta	1482
Abo	3632
Hueco	4282
Penn	4762
Basement	5232
3. Hydrocarbon bearing strata may occur in the Abo, Hueco, and/or Penn formations. No fresh water is expected to be encountered below 800'.
4. The casing and blowout preventer program will be determined by hole conditions as encountered. Anticipate drilling with air or foam using ram type preventer and rotating head for well control. The 13 3/8" casing will be set 50' into the San Andres formation to protect any fresh water zones and cemented to the surface. The 8 5/8" casing will be set at approximately 1500' and ram type preventers installed. Sufficient amounts and kinds of cement will be used to ensure any water, gas, or oil zones encountered are isolated and shut off down to the casing point. The 4 1/2" production casing will be set at total depth or shallower depending upon the depth of the deepest hydrocarbon bearing strata encountered.
5. No drillstem tests or coring program is planned. The logging program may consist of a GR-DEN and GR-DUAL LL/RYO from casing point to total depth.
6. Anticipated drilling time is fifteen days with completion operations to follow as soon as a completion unit is available.

MULTI-POINT SURFACE USE AND OPERATION PLAN

MESA PETROLEUM CO.  
HOBBS FEDERAL #1  
1980' FNL & 1980' FEL, Shc. 8, T6S, R25E  
CHAVES COUNTY, NEW MEXICO

LEASE: NM-36410

RECEIVED

JAN 5 1981

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 I is a portion of a highway map showing the location of the proposed well as staked. The proposed well is approximately 39 miles north/northeast of Roswell, New Mexico (courthouse).
- B. Directions: Travel north on Highway 285 for 24 miles as measured from the intersection with Highway 70 and then turn east through a cattleguard on an improved dirt road (marked by power lines) for 7-1/2 miles then southeast for one mile on 2 track to the location just to the north of the road.

2. Planned Access Road

- A. Length and width: The new access road will be 12' wide (16' ROW) and approximately 200' of newly cut road.  
(See Exhibit II 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 III)
- C. Culverts, Gates and Cattleguards: None required.
- D. Cut and Fill: In order for the location to be level, approximately 3' of cut from the north side will be moved to the south side for fill.

3. Location of Existing Wells

Existing wells within a two-mile radius are depicted by Exhibit IV.

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 wellsite over the existing roads and the proposed access road shown on Exhibits I and II.

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 finished and/or completion operations.

8. Ancillary Facilities: None required.

9. Wellsite Layout:

- A. Exhibit V 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 III 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 wellsite 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 south.
- 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 grazing.
- D. Ponds and Streams: There are no rivers, streams, lakes, or ponds in the area with the exception of the Fivemile Draw lying 2 1/2 miles to the south which carries water to the Pecos River during wet periods.
- E. Residences and Other Structures: There are no residences or other structures in the vicinity of the proposed well.
- F. Land Use: 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. 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.

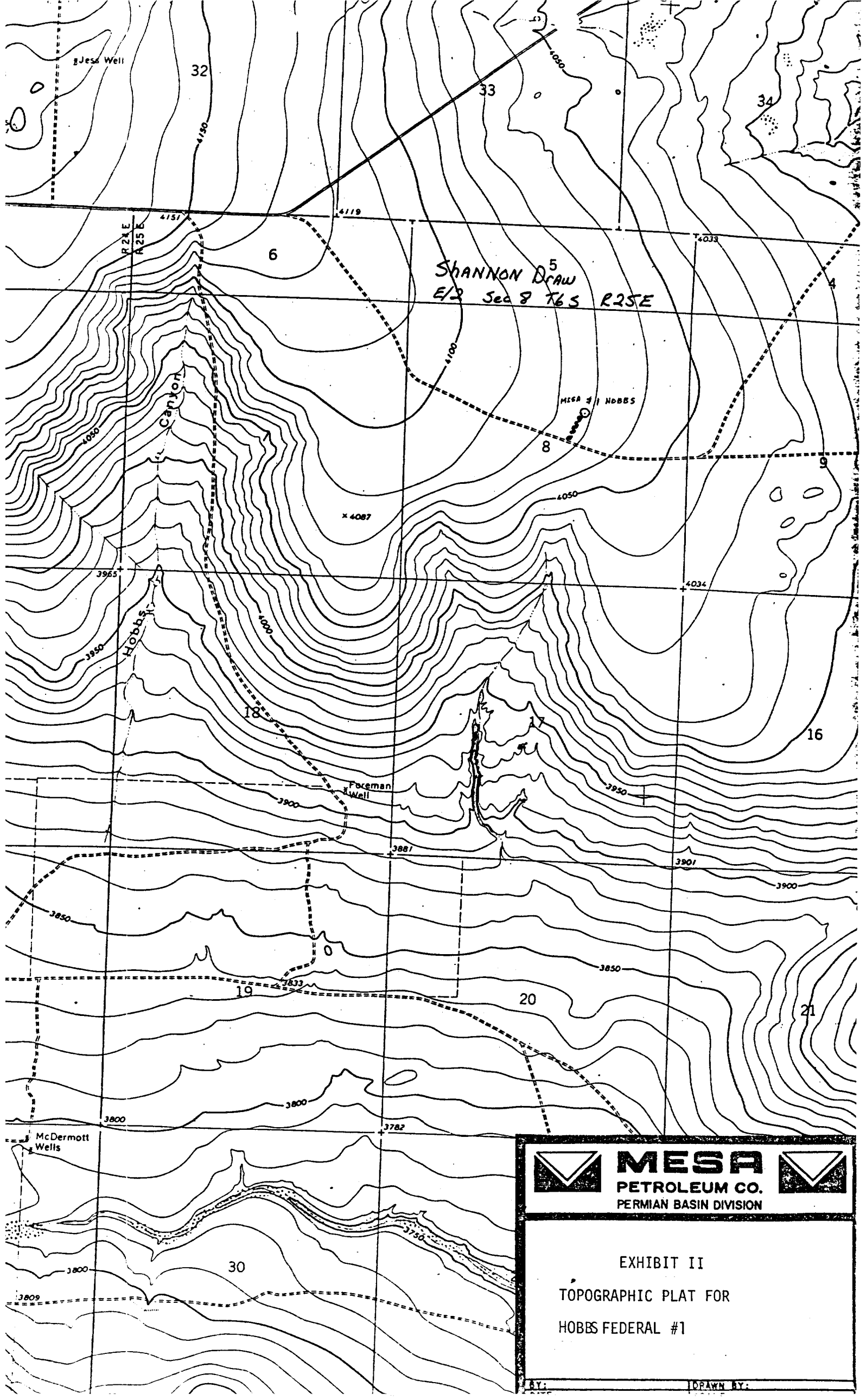
1-2-81

DATE

Michael P. Houston

Michael P. Houston  
Operations Manager





**MESA**  
PETROLEUM CO.  
PERMIAN BASIN DIVISION



EXHIBIT II  
TOPOGRAPHIC PLAT FOR  
HOBBS FEDERAL #1

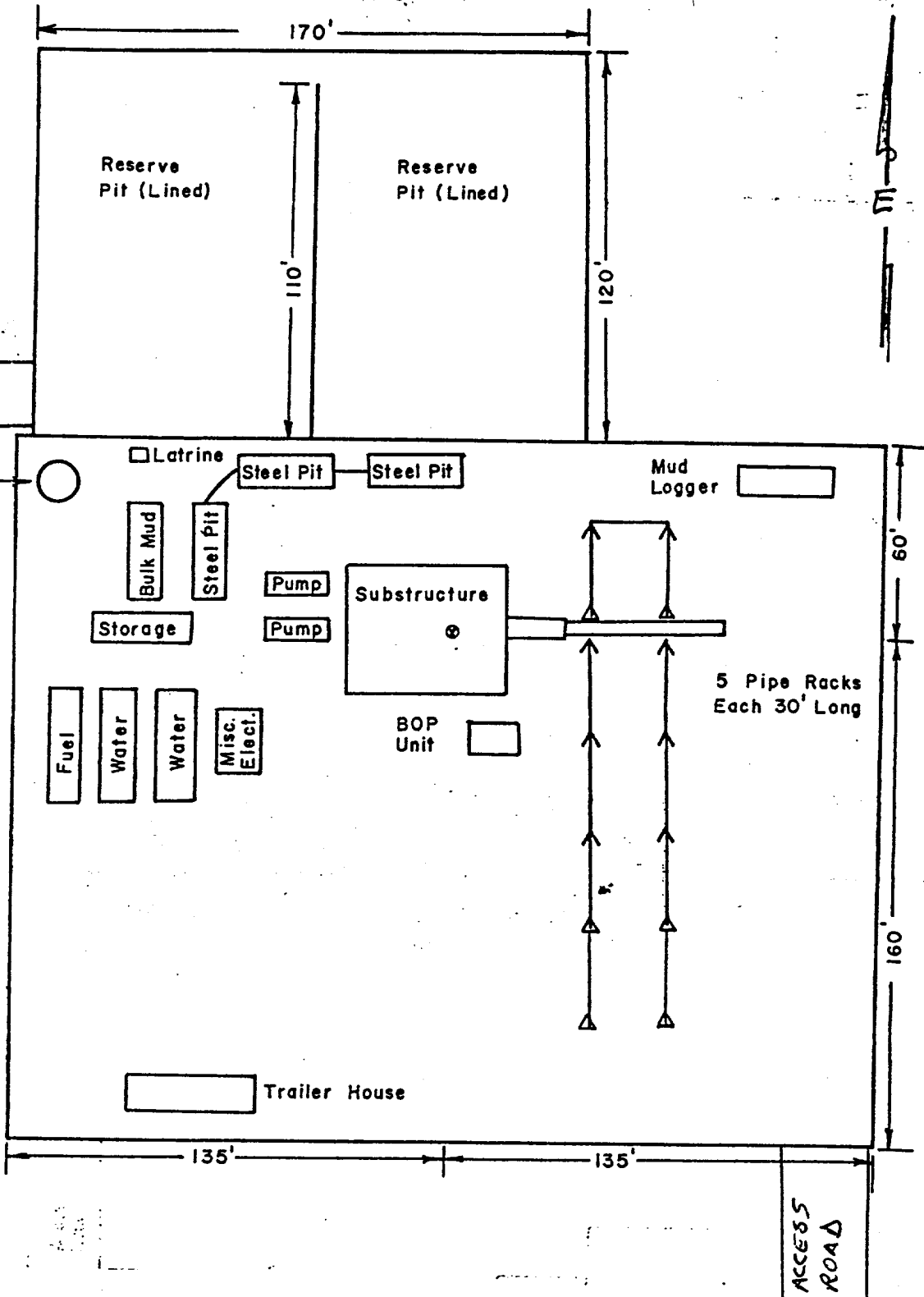
BY:



DRAWN BY:

Topsoil  
Stockpile  
Area

n & Trash

Brine Stor.



**MESA**  
PETROLEUM CO.  
PERMIAN BASIN DIVISION

**EXHIBIT V**