	5.		· · ·		
Form 9-331 C (Mar 1963)	DEPARTMENT	ED STATES OF THE INTE SICAL SURVEY	SUBMIT IN T (Other instru reverse s	ide) 5. 1	Form approved. Budget Bureau No. 42-B1425. O = OO5 - 60919 EASE DESIGNATION AND SEBIAL NO. 33266
APPLICATION	N FOR PERMIT T	O DRILL, DEEL	PEN, OR PLUG E		IF INDIAN, ALLOTTEE OR TRIBE NAME
1a. TYPE OF WORK DRI			PLUG BA		RECTIVED
	ELL OTHER		SINGLE X MULTIN ZONE ZONE	°. *	TARM OF LEASE NAMAR 2 5 198
2. NAME OF OPERATOR	····· • • •				IGGINS FEDERAL
MESA PETROLE	<u>UM CO.</u>			0. 1	
3. ADDRESS OF OPERATOR			ルト	2	ARTESIA, OFFICE
1000 VAUGHN	BUILDING/MIDLAN	D, TEXAS 79701	1	<u> </u>	FIELD AND POOL, OR WILDCAT
4. LOCATION OF WELL (R. At surface	eport location clearly and	in accordance with any	State requirements.*)	· · · · ·	DESIGNATED ABO
	NL & 1980' FEL			- 11.	SEC., T., R., M., OR BLK. AND SURVEY OR AREA
At proposed prod. zon			· · ·		KL-B
SAME			at di		C <sub>2</sub> 17, T5S, R24E
14. DISTANCE IN MILES	AND DIRECTION FROM NEAR	EST TOWN OR POST OFF	CB <sup>+</sup>		COUNTY OR PARISH 13. STATE
38 MILES NOR	TH/NORTHEAST OF	ROSWELL, NEW	MEXICO		AVES NEW MEXICO
15. DISTANCE FROM PROPO LOCATION TO NEAREST	DSED*	16.	NO. OF ACRES IN LEASE	17. NO. OF ACI	RES ASSIGNED
PROPERTY OR LEASE L (Also to nearest drig	INE. FT.	660'	640	1 3 3	60
18. DISTANCE FROM PROP	OSED LOCATION*		PROPOSED DEPTH	20. BOTABY OR	00
TO NEAREST WELL, D. OR APPLIED FOR, ON THE	RILLING, COMPLETED, IS LEASE, FT.	1.7 MILES	4350'	ROTA	RY
21. ELEVATIONS (Show who	ether DF, RT, GR, etc.)				2. APPROX. DATE WORK WILL START*
4127.5' GR					MAY 12, 1981
23.	P	ROPOSED CASING AL	ND CEMENTING PROGR	AM	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PEB FOOT	SETTING DEPTH		QUANTITY OF CEMENT
17 1/2"	13 3/8"	48#	800 '	CIRCULATE	TO SURFACE
<u> </u>	8 5/8"	24#	1600'	SUFFICIEN	T TO ISOLATE WATER 0&G
7 7/8"	4 1/2"	10.5#	4350'	SUFFICIEN	IT TO COVER ALL PAY

Propose to drill 17 1/2" hole on air or foam to 800' or deeper to set 13 3/8" surface casing. Will cement to surface then reduce hole to 11" and drill to 1600'. Will set 8 5/8" casing if water zones have been encountered or omit if not. Will reduce hole to 7 7/8", install ram type BOPs, and drill to total depth using 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.

Gas Sales Are Not Dedicated.

USGS (6), TLS, CEN RCDS, ACCTG, HOBBS, LAND, MEC, PARTNERS, FILE XC:

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM : If proposal is to deepen or plug back, give data on present productive sone and proposed new productive sone. 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. BIGNED <u>R. 2</u>	P. Martin au	TITLE	REGULATORY COORDINATOR	DATE	FEBRUARY	25,	1981
(This space for	Federal Ar IS TUR de Vile)						
PERMIT NO.	(Ore Sed) GEORGE H. STE	fr	APPROVAL DATE				
APPROVED BY	MAR 2 3 1981	TITLE		DATE .			
	PPROVAL, IF ANY :						
•	JAMES A. GILLHAM DISTRICT SUPERVISOR						
	+C	Instruction	ns On Reverse Side				

# MEXICO OIL CONSERVATION COMMIS

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

All distances must be from the outer boundaries of the Section.							
operator			Lease				Well No.
Mesa Petro	leum Co.	•		ins Fed	•		2
Unit Letter Sect	ion	Township	Eange		County	_	
B	17	<u>5 S</u>	2	4 E	CI	haves Coun	ty
Actual Footage Location of Well:							
660 feet from the North line and 1980 feet from the East line							
Ground Level Elev.	Producing For	mation	Pool		A 1	1	Dedicated A reage:
4127.5	ABO		UNDESI	GNATED-	Hb	e.	NE/4 160 Acres
1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.							
<ol> <li>If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).</li> <li>If more than one lease of different ownership is dedicated to the well, base the interests of all owners been consoli-</li> </ol>							
		nitization, force-pooli		€_ 		and the second sec	
If enswer is "		nswer is "yes," type of owners and tract desc			tually ha	Etr consolidat	ed. (Use reverse side of
this form if nec		and that dest	r			2 - Susondar	
No allowable w	ill be assigne						unitization, unitization, pproved by the Commus-
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	1	- <sup>9</sup>	ł		_	l hereby ce	rtify that the information con-
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	1	: <del>-</del>	1	_	-	1	knowledge and belief
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		- //	N. S.	E.S.		Company	
	1	- 4. 1	8	N	_	MESA PETI	ROLEUM CO.
		- JOHN - W		TH R	_	FEBRUARY	25, 1981
			NEKOB			shown on th notes of ac under my su	ertify that the well location is plat was plotted from field tual surveys made by me or opervision, and that the same I correct to the best of my and belief.
p				· · ·			9-81 ofession al Engineer urveyor JOHN W. WEST 676 PATRICK A. ROMERO 6663
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#### APPLICATION FOR DRILLING

## MESA PETROLEUM CO. HUGGINS FEDERAL #2 660' FNL & 1980' FEL, SEC 17, T5S, R24E CHAVES COUNTY, NEW MEXICO

## LEASE NO: NM 33266

In conjunction with Form 9-331C, Application For Permit to Drill subject well, the following additional information is provided:

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

SEVEN RIVERS	SURFACE
SAN ANDRES	498 '
GLORIETTA	1383'
TUBB	2928'
ABO	3588'
HUECO	4288'

- 3. Hydrocarbon bearing strata may occur in the Abo formation. 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 at approximately 800' to protect any fresh water zones and cemented to the surface. The 8 5/8" casing will be set at approximately 1600' if water zones have been encountered or omitted if not and ram type preventers installed. 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. 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.
- 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 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. HUGGINS FEDERAL #2 660' FNL & 1980' FEL, SEC 17, T5S, R24E CHAVES COUNTY, NEW MEXICO

## LEASE NO: NM 33266

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 38 miles north/northeast of Roswell, New Mexico.
  - B. Directions: Travel north of Roswell on US Highway 285 for approximately 24 miles (marker 139) then travel east/northeast for 11.5 miles on county road. Turn west on lease road (Stancel Fed #1) and follow northwesterly (past the Stancel Fed #2, Huggins Fed #1, Camack Fed 1 & 2) for 3.7 miles (3/10 mile past Camack Fed #2) and then turn south 1/2 mile then west 1/10 mile to the location.

## 2. Planned Access Road

A. Length and width: The new access road will be 12' wide (16' ROW) and approximately 7/10 mile of new road and 3.7 miles of ROW approved under APD's for the Stancel Fed #1 & #2, Huggins Fed #1 & Camack Fed #1 and #2. (See USGS records for Roswell area).

(See Exhibit II)

- 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: One cattleguard will be installed .
  - 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 one-mile radius are depicted by Exhibit IV.

Multi-Point Surface Use and Operation Plan

Page 2

## 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 air. If water is needed, it 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 or piped in by temporary line from a nearby source.

## 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. Probable pit is located: NE/4, Sec. 22, T5S, R24E, Chaves County, New Mexico.

## 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.

Multi-Point Surface Use and Operation Plan

Page 3

- 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: Huggins Draw is 1.2 miles to the south.
  - 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 private surface (B. M. Corn).

Multi-Point Surface Use and Operation Plan

#### Page 4

H. There is no evidence of any major archaeological, historical, or cultural sites in the area. NMAS, Inc. has conducted an archaeological 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 (505-393-4425) - Office (505-393-6033) - Home C. C. Wheeler 1000 Vaughn Building Midland, Texas 79701 (915-683-5391) - Office (915-683-5391) - 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.

February 25, 1981 Date

Muchael P. Harston

Michael P. Houston Operations Manager



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