NM OIL CONS. COMMISSION Drawer

Artesia, HAL 88210, TEC

SUBMIT IN TI CATE\* 25.

(Other instruct. s on reverse side)	

Budget 1	Burea	u l	No.	42-R142
200		/	1-	10

UNITED STA	153	30-003-10/2/8
DEPARTMENT OF TH	5. LEASE DESIGNATION AND SERIAL NO.	
C/SF GEOLOGICAL SL	IRVEY	NM-33266
APPLICATION FOR PERMIT TO DRIL	L, DEEPEN, OR PLUG E	6. IF INDIAN, ALLOTTER OR TRIBE NAME
DRILL X DEEPE		
b. TYPE OF WELL OIL CAS WELL WELL OTHER	SINGLE X MULTII	0. 3444 02 2222
2. NAME OF OPERATOR		HUGGINS FEDERAL
MESA PETROLEUM CO.	Beccu	9. WELL NO.
3. ADDRESS OF OPERATOR	RECEIV	3
1000 VAUGHN BLDG/MIDLAND, TEXAS	79703 <b>-4493</b>	10. FIELD AND POOL, OR WILDCAT
4. LOCATION OF WELL (Report location clearly and in accordan	ce with any State requirements,	981 × UNDESIGNATED ABO
1650' FNL & 1980' FWL SE	/NW 4	AND SURVEY OR / REA
At proposed prod. zone		CEC 15 TEC DOAE
SAME		SEC 15, T5S, R24E
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN O	R POST OFFICE*	
41 miles north of Roswell, New Me	xico	CHAVES NEW MEXICO
15. DISTANCE FROM PROPUSED* LOCATION TO NEAREST	16. NO. OF ACRES IN LEASE	17. NO. OF ACRES ASSIGNED TO THIS WELL
PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)	640	160
18. DISTANCE FROM PROPOSED LOCATION®	19. PROPOSED DEPTH	20. ROTARY OR CABLE TOOLS
TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.	4200'	ROTARY
21. ELEVATIONS (Show whether DF, RT, GR, etc.)		22. APPROX. DATE V'ORK WILL START*
3982.3' GR		DECEMBER 21, 1981
23. PROPOSED	CASING AND CEMENTING PROGR	AM

QUANTITY OF CEMENT SETTING DEPTH WEIGHT PER FOOT SIZE OF CASING SIZE OF HOLE SURFACE. 900' 48# 13 3/8" 17 1/2" ISOLATE WATER, OIL & GAS 1600' 11" 8 5/8" 24# COVER ALL PAY 4200' 4 1/2" 10.5# 7 7/8"

Propose to drill 17 1/2" hole to approximately 900' to set 13 3/8" surface casing and cement to surface. Will reduce hole to 11" and drill to approximately 1600' to set 3 5/8" casing. Will nipple up RAM type BOPs, reduce hole to 7 7/8" and drill to total depth. Drilling medium will be air, foam, or mud as required.

Gas Sales are Dedicated.

OR A CAR U.S. GEOLOGICAL SURVEY ROSWELL NEW MEXICO

xc: USGS (6), TLS, CEN RCDS, ACCTG, MEC, LAND, PARTNERS, FILE, REM, ROSWELL,

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive sone and prop sed 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, it was.		
SIGNED R. P. Mach	TITLE REGULATORY COORDINATOR	DATE 10-28-81
(This space for Federal A State of the Use D		
PERMIT NO.	APPROVAL DATE	
APPROVED BY NOV 1.3 1981 CONDITIONS OF APPROVAL, IF ANY JAMES A. GILL'IAM	TITLE	_ DATE

# WELL LOCATION AND ACREAGE DESIGNATION FS.

	All distance	imax be from the outer bound	eries of the Section	
Mesa Petrole	eum Co.	Huggi	ns Fed.	3
F   3+11	15 5 5	South 24 I	Last	Chaves
1650	North	1980	tent to o tre	West
teer in r	turing Erroric			NULLA 160
3982.3'	ABO	ubject well by colored p		NW/4 160 190 or the plat below.
2 If more than one interest and royalt	iease is dedicated t	the well, outline each	and identify the own	pership thereof (both as to working erests of all owners over onsoli
dated by community	zation, unitization, f	are pooling, etc? strope of consolidation		
If answer is "no."	list the owners and t			consolidated of secretise side of
No allowable will to forced-pooling, or of soon.	or assigned to the wel therwise for until a co	l until all citerests have mestandard unit, e aminat	been consolidated ang such interests.	by communitization, analyzation, has been approved by the Commis-
				CERTIFICATION
— MESA — etal	<del>-</del>	4 		hereby cert is that the information con- tained herein is true and complete to the
- NM-33266	1650	: :	·	R. H. Math
	+ +-		:	R.E. MATHIS
1980	· -		-	REGULATORY COORDINATOR
- :	_		-	MESA PETROLEUM CO.
-	<u> </u>		b	10-28-81
S. C.	GINEER & LAND SUR	Salar Constitution of the salar constitution	F 7 E S	i hernby certify that the well location shown on this plat wall plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct o the best of my knowledge and belief
Za Za	MEXICO WEST	JOHN 11	W. WEST	Oct. 13, 1981  registers for lessional Fagineer  out or and Sarveyor  AND ALLOW
337 660 90 132	15 168C 198C 2317 264.	2700 1600	noo <b>5</b> 00 o	Certificate No. JOHN VI. WEST 676 PATRICK A. ROMERO 6668 Ronald J. Eidson 3233

# MESA PETROLEUM CO. HUGGINS FEDERAL #3 1650' FNL & 1980' FWL, SEC 9, T5S, R24E CHAVES COUNTY, NEW MEXICO LEASE NO: NM-33266

In conjunction with Form 9331-C, Application For Permit to Drill subject well, the following additional information is provided:

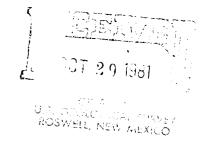
- 1. Applicable portions of the GENERAL REQUIREMENTS FOR OIL AND GAS OPERATIONS ON FEDERAL LEASES, Roswell District, Geological Survey of September 1, 1980 will be adhered to.
- Geological markers are estimated as follows:

Seven Rivers	Surface
San Andres	594'
Glorieta	1427'
Tubb	2911'
Abo	3542 '

- 3. Hydrocarbon bearing strata may occur in the ABO formation(s). 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 air or foam using ram type preventer and rotating head for well control. The 13 3/8" casing will be set at approximately 900' 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 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.

### MESA PETROLEUM CO. HUGGINS FEDERAL #3 1650' FNL & 1980' FWL, SEC 9, 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.

#### Existing Roads: 1.

- Exhibit I is a portion of a highway map showing the location of the proposed well as staked. The proposed well is approxmately 41 miles north of Roswell, New Mexico.
- Directions: Travel north from Roswell on US Highway 285 for approximately 27 miles and turn east on county road 8 miles then northeast 3.5 miles then northwest 3/4 mile then north 1 mile (crossing Huggins Draw) then due west 1/4 mile to the location.

#### 2. Planned Access Road:

Length and width: The new access road will be 12' wide (20' R(IW) and approximately 1/4 mile of new road.

(See Exhibit II)

- Construction: The new road will be constructed by grading and Β. topping with compacted caliche. The surface will be crowned, with drainage on both sides. (See Exhibit III)
- Culverts, Gates and Cattleguards: NONE С.
- Cut and Fill: In order for the location to be level, approxi-D. mately 5' will be moved from the west to the east for fill.

#### Location of Existing Wells: 3.

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 needed, water will be obtained from commercial sources and will be trucked to the wellsite over the existing roads and proposed access road shown on Exhibits I and II.

#### 6. Source of Construction Materials:

Caliche for surfacing the road and wellsite pad will be obtained by the dirt contractor from an approved pit. Probable pit is located: NE/4 SEC 22, T5S. R24E

#### 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.

#### Page 3

#### 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 may be required. See Exhibit III for additional details.
- C. The reserve pit will be un-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: See NMAS, Inc. Report
- B. Soil: The topsoil at the wellsite is sandy loam.
- C. Flora and Fauna: See NMAS, Inc. Archaeological Report for vegetative types.
- D. Ponds and Streams: Huggins Draw is 1/2 mile to the southeast.
- E. Residences and Other Structures: NONE

Multi-Point Surface Use and Operation Plan

#### Page 4

- F. Land Use: Grazing.
- G. Surface Ownership: The wellsite is on federal surface.
- H. 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. James P. O. Box 298 Roswell, New Mexico (505-622-0992) - Office (505-622-0234) - Home W. R. Miertschin 1000 Vaughn Building Midland, Texas 79701 (915-683-5391) - Office (915-682-6535) - Home

#### 13. Certification:

I hereby certify that I, or person 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.

OJ 38, 1981 DATE

MICHAEL P. HOUSTON OPERATIONS MANAGER

