Form 9-331 C (May 1963)	,∳° UNi f	PY	SUBMIT IN TRJ (Other instruc reverse sid	on	Budget Bureau No. 42-R1425.				
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	FOR PERMIT	O DRILL, L	EEFEN	C, OK FLUG D					
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b. TYPE OF WELL OIL GA	8 🗔		BING		a ()	8. FARM OB LEASE NAME			
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15. DISTANCE FROM PROPO LOCATION TO NEAREST	2	660'		DF ACRES IN LEASE	17. NO. 0 TO TH	HIS WELLO			
PROPERTY OR LEASE L (Also to nearest drig 18. DISTANCE FROM PROP(. unit line, if any)			OSED DEPTH		RY OR CABLE TOOLS			
18. DISTANCE FROM PROP TO NEAREST WELL, DE OR APPLIED FOR, ON THI	RILLING, COMPLETED,	3.5 miles	10. 1401	4300'		DTARY			
21. ELEVATIONS (Show whe					<u> </u>	22. APPROX. DATE WORK WILL START*			
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23.	I	PROPOSED CASIN	IG AND C	EMENTING PROGRA	M d				
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	8 5/8"	24#		1600'	SUFFIC	CIENT TO ISOLATE WTR.08G			
7 7/8"	4 1/2"	10.5#		4300'	SUFFI	CIENT TO COVER ALL PAY			
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Gas Sales Are	Dedicated To T	ranswestern	i Pipei	ine co.	53				
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IN ABOVE SPACE DESCRIBE	PROPOSED PROGRAM : If	proposal is to deel	pen or piu	g Dack, give data on p	resent prou	fuctive some and proposed new productive			
zone. If proposal is to preventer program, if an;		ally, give pertinent	t data on	subsurface locations an	id measure	d and true vertical depths. Give blowout			
24.									
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FO	R AMES A. GILLHAN	C. Int	ations ()n Reverse Side					
	STRICT SUPERVISC	R See Institu	Cuons C	VII INETEISE JIDE					

N MEXICO OIL CONSERVATION COMMISS 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 t	he Section.	
erator Mese P	etroleum Co.		Bedford Fe	deral	Well No. 2
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Form 9-331 (May 1963)		NITED STATES		SUBMIT IN TRIPLICAT (Other instructions on	Te-	Form approved Budget Bureau	No. 42-R1424.
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APPLICATION FOR DRILLING

MESA PETROLEUM CO. BEDFORD FEDERAL #2 660' FNL & 660' FEL, SEC 18, T6S, R25E CHAVES COUNTY, NEW MEXICO

LEASE NO: NM 20337

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

SEVEN RIVERS	SURFACE
SAN ANDRES	730'
GLORIETTA	1480 '
ABO	3610'
HUECO	4260 '

- 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 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. BEDFORD FEDERAL #2 660' FNL & 660' FEL, SEC 18, T6S, R25E APR 2 4 1981 CHAVES COUNTY, NEW MEXICO

LEASE NO: NM 20337

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 30 miles north/northeast of Roswell, New Mexico.
 - B. Directions: Travel north on US Highway 285 from Roswell for approximately 24 miles (mile marker 139) and turn east on the County road for 8 1/2 miles. Turn south thru cattleguard on new lease road for 6/10 mile to the location.
- 2. Planned Access Road
 - A. Length and width: The new access road will be 12' wide (16' ROW) and approximately 6/10 mile of new 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: one 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 one-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.

Multi-Point Surface Use and Operation Plan

Page 2

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.

- 7. Methods of Handling Waste Disposal
 - A. Drill cuttings will be diposed 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 not be plastic lined.

Multi-Point Surface Use and Operation Plan

Page 3

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: Five Mile Draw is approximately 1.5 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).
- 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 proivdes this report to interested parties.

Multi-Point Surface Use and Operation Plan

Page 4

12. Operator's Representatives:

J. James	M. P. Houston
P. O. Box 298	1000 Vaughn Building
Roswell, New Mexico 88201	Midland, Texas 79701
(505-623-0989 Unit #4039)	(915-683-5391) - Office
	(915-694-3442) - 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.

<u>April 22, 1981</u> DATE

Michael P. Houston Operations Manager







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