Form 9-331 C (May 1963)	Draw DI	DNS. COMMIS	S	SUBMIT IN *** (Other in: reverse s	tions on	-	reau No. 42-R1425.	
1-5	DEPARTMEN	T'OF THE GICAL SURV	INTE	RIOR		5. LEASE DESIGNAT		
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK						6. IF INDIAN, ALLOTTER RECEIVED		
	DRILL DEEPEN DEEPEN PLUG BACK						7. UNIT AOREEMENT NAME AUG 1 3 1981	
	WELL WELL A OTHER ZONE A ZONE							
MESA PETR			<u> </u>	NECLESOVA	300	MACHO FEDE 9. WELL NO.	RAL DEFICE	
	GHN BUILDING/MI	DLAND, TEXA	IS 79	101		2 10. FIELD AND POOL	, OR WILDCAT	
	Report location clearly and 'FNL & 1980'FE		ith any	State reguirements. 981	加	UNDESIGNAT		
		- L .	6	OIL & GAS		11. BEC., T., B., M., C AND SURVEY OB Ut B	DE BLK. ARTA	
At proposed prod zo SAM				U.S. GEOLOGICAL SU	RVEY R ICO	SEC 5, T7S		
	NORTH OF ROSWEL		ST OFFIC	, 1 4 ,		12. COUNTY OR PARI CHAVES	NEW MEXICO	
15. DISTANCE FROM PROP LOCATION TO NEARES			1	O. OF ACRES IN LEASE		ACRES ASSIGNED		
PROPERTY OR LEASE (Also to mearest dr) 18. Distance from pro-	g. unit mue, it any /	50/1980'		2209.13	20. BOTABY OF CABLE TOOLS			
	BRILLING, COMPLETED,	5800'		3400'		TARY		
21. ELEVATIONS (Show wh						22. APPROX. DATE	WORK WILL START*	
4001.5' (23.			NG AN	D CEMENTING PROGRA		SEPTEMBE	<u>R 15, 1981</u>	
BILL OF HOLE	BIZE OF CASING	WEIGHT PER J		SETTING DEPTH				
12 1/4"	8 5/8"	24#		'1400'	SURFAC	E CIRCULATE		
7 7/8"	4 1/2"	10.5#		3400'	SUFFIC	IENT TO ISOL	the second s	
Ducasca	 				``	arthor (po a construction) a construction (po construction) and the polarization (polarization)	n pourt munt Alexandra real Alexandra real Alexandra real Alexandra real	
and cemer drill to After log and amour encounter		Will nippl rilling me 1/2" casin	e up dium g may	ram type BOPs a will be air, fo be run_and cen	and red am, or mented	uce hole to mud as requ with sufficie	7 7/8" to ired.	
Gas Sales	Gas Sales Are Dedicated						HIT	
XC: USGS	5 (6), TLS, CEN	RCDS, ACCT	G, LA	ND, PARTNERS, F	ILE, M	EC, ROSWELL		
	PROPOSED PROGRAM : If p drill or deepen directiona V.							
24.	. 1						<u> </u>	
BIGNED R. P. 1	Maitin	TH	rl e REG	ULATORY COORDIN	ATOR	DATE JULY	28, 1981	
(This space for Fede	APPROVED						<u> </u>	
PEBMIT NO.	Sza.); GEORGE H.	STEWARY		APPROVAL DATE	· · · · · · · · · · · · · · · · · · ·			
APPROVED BY			rle				· · · · ·	
	DR JAMES A. GILLHAM				•			
	DISTRICT SUPERVISOR *See Instructions On Reverse Side							

NEMEXICO OIL CONSERVATION COMMISSI

3

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

All distances must be from the outer boundaries of the Section							
Operator			Lease			Well No.	
MESA PETROLEUM COMPANY				MACHO FE	2		
Unit Letter B	Section 5	Township 7 South	Range	73 F	County	Change	
D Actual Footage L		/ South	<u>_</u>	23 East	<u> </u>	Chaves	
		T				×	
1980 round Level Ele	feet from the v. Producing I	East line on Formation	d 660 Pool	fe	t from the	North line Dedicated Acreage:	
4001.5		ABO		ESIGNATED	1		
						ME/4 160 A marks on the plat below.	
2. If more interest	than one lease i and royalty).	is dedicated to the wo	ell, outline (each and ide	entify the c	ownership thereof (both as to work	
dated by Yes If answer this form	communitization, No If r is "no," list th if necessary.)	, unitization, force-poo answer is "yes," type e owners and tract des	ling. etc? of consolid criptions w	ation hich have a	ctually bee	en consolidated. (Use reverse side en consolidated. (Use reverse side	
forced-po sion.	oling, or otherwis	neu to the well until a	ard unit, elir	nave peen o	consolidation interest	s, has been approved by the Comn	
	l l	_ 			' _	CERTIFICATION	
	I I	66	o' I				
	i	-			_	I hereby certify that the information of tained herein is true and complete to	
	i	d	• 	1980		best of my knowledge gad belief.	
	1	-	MESIA	1	-	00 m	
	I	_		٦	_	R. Y. / / laura	
	 		ET AL			Name	
	1	-	· · · · · · · · · · · · · · · · · · ·		_	R. E. MATHIS	
	l		NM 3664	17			
	,	-	1		-1	REGULATORY COORDINATOR	
	i i		,			MESA PETROLEUM CO.	
	I		1		-	Date	
	1					JULY 24, 1981	
	1		· · · · · ·	· · · ·			
						I hernby certify that the well local shown on this plat was plotted from fi notes of actual surveys made by me under my supervision, and that the so is true and correct to the best of knowledge and belief.	
						Date Surveyed 6/29/81 Registered Professional Engineer and/or Land Surveyor	
						PATRIOK A. ROMERO	
330 660	100 1220 1680 1	980 2310 2640 200	00 1 800	1000 8	09 (0/	Receld J. Eideon	

APPLICATION FOR DRILLING

MESA PETROLEUM CO. MACHO FEDERAL #2 660' FNL & 1980' FEL, SEC 5, T7S, R23E CHAVES COUNTY, NEW MEXICO

LEASE NO: NM 36647

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

 Applicable portions of the <u>GENERAL REQUIREMENTS</u> FOR <u>OIL</u> AND <u>GAS</u> <u>OPERATIONS</u> ON <u>FEDERAL LEASES</u>, Roswell District, <u>Geological</u> Survey of September 1, 1980 will be adhered to.

2. Geological markers are estimated as follows:

San Andres	Surface
Glorieta	626'
Yeso	804 '
Tubb	. 2152'
АЬо	2787'
Hueco	3366 '
Hydrocarbon boaming studte	A BI

- 3. Hydrocarbon bearing strata may occur in the Abo formation(s). No fresh water is expected to be encountered below 1000'.
- 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 8 5/8" casing will be set at approximately 1400' to protect any fresh water zones and cemented to the surface. 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. 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.
- 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 ten days with completion operations to follow as soon as a completion unit is available.

MULTI-POINT SURFACE USE AND OPERATION PLAN

MÉSA PETROLEUM CO. MACHO FEDERAL #2 660' FNL & 1980' FEL, SEC 5, T7S, R23E CHAVES COUNTY, NEW MEXICO



OIL & GAS U. - CCOLOGICAL SURVEY COSWELL 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.

LEASE NO: NM 36647

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 approxmately 25 miles North of Roswell, New Mexico.
- B. Directions: Travel North from Roswell on US Highway 285, to just past mile marker 132, turn West thru cattleguard and travel 3 miles then turn North (2/10 mile before Ranch House) for 6/10 mile then Northwest along pipeline for 2/10 mile then North 2/10 mile to the location.
- 2. Planned Access Road:
 - A. Length and width: The new access road will be 12' wide (20' ROW) and approximately 1/2 mile of new road.

(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: None
- D. Cut and Fill: In order for the location to be level, approximately 3' will be needed as fill on the south.

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 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 or piped in from a nearby source.

6. <u>Source of Construction Materials</u>:

Caliche for surfacing the road and wellsite pad will be obtained by the dirt contractor from an approved pit. Probable pit is located: Unknown.

7. <u>Methods of Handling Waste Disposal</u>:

- 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?

1

- 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.

Ł

Multi-Point Surface Use and Operation Plan

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 not 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:

Ł

A. Topography: The land surface in the vicinity of the wellsite = is draining to the Southwest. =

-

÷

- B. Soil: The topsoil at the wellsite is sandy loam.
- C. Flora and Fauna: See the Archaeological Report filed by NMAS, Inc. for a description of vegetative types.
- D. Ponds and Streams: Arroyo del Machais 1/2 mile to the West.
- 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 private surface (Bronson 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 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:

	W. R. Miertschin 1000 Vaughn Building Midland, Texas 79701 (915-683-5391) - Office (915-682-6535) - Home
(505-622-0234) - Home	(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.

> July 24, 1981 DATE

MICHAEL P. HOUSTON OPERATIONS MANAGER







۲. ۲	Inddrown US	UL	us.	Y	.835 Attas Trompoor	DE BETTY MOD
	ELAINE WELE NO1-24:52	1' M.Wo. 11+1-68 32323	Frad Pupi 6-16-03	McClother Matvin & 6 1 1 1 Marvin Walf 10 1001 T Marvin Walf 37 M T 1 1 00	Metrin Wolf	
	- L M 4	T T	W #. MeKnight		21311	M.Waif 11-1-88
	13	- y 18	17		15	32323 Ør 140 7.
			31925			۲. ما ۳
	U.S.	U.S.	<i>U.S.</i>	State (5 23 us.	US. Ste
	1 1.10	Frad Paul M. Wolf 6-15-03 II-1-65 1 B2924	M.Wolf 11-1-68 82324	M. Welf 3-2+-86 H-1-00 32026	MLWeif 11-1-88	
	24	U.S.	20	2 H.J. Rives		2 2
		Melvin Wolf 11 - 0 JE35	20	oftal Fred Pool Drig 6-15-93	22 570	-1
	us. 7	U.S. Kni	. Me zhi U.S.	мен. US W.R. NcKnight	ц. 5 .	
	1	M.Wolf 9-1-80 32355	Frad Past M.We H 6-15-05 H-1-68	Mekin Wolf	Inexco	
\mathbf{V}		E Fract Paul 6-18-58		32352	8 - 1 - 96 32306	
	25	7 30	1 29	- 28	27	
			Knight 9-1-86 82325			
2	Ų.S.	Loffie HE: Knight W.R.NcKnigh	l us.	·U.s.	U. S.	
494 71 .2.	5 DN OIL 269575 4-1-91	i' Frankin J.M. Net Knight, et 31	Makin & Marvin Wolf T La. 5573	Melvin EMarvin Wolf 7 1 88 Le-5573	Metrin Marvin Wolf 7 L Bi LO-5574	Melvin E 7 Le
		M.Wotf 7-1-84 32325	50 \$	50 ¢	Jo t	5
	36	- 31	. 32	33	34	
d y 5 14 144 9 M 2,	Sioto	- 1 ⁴ us.		-		
,		MTS h	Sinte	State	Stole Yotes Percendi	<i>st</i>
• ‡	HISA Public Los Expl. Lillian 3 1 87 Crane	Public Lds Bel	Public Lady, Expl.	1 1 1 1	L 32.0 L	- ¹ ¹ ¹
	0060	6 0087	5 0087	4	3	
ļ	.80 U.S. 401.2 Dil6 MISH Dil6 Pagic Las Fxpl vz	170.41	1	-	-	•
<u> </u>	80 : 2.41, Heley 31/160	1. M. HcKnight U.S. 0110-1 MTS 1/2	. 80 U.S	Stote	State	
A.C.	OliB E.H. Holey -	MTS/2 Whic Lds Expl whic ds Expl 36647	NTS /2 Public Life Exol. 9 00 01 0087 3 Fiorence	Public Lite Eupl LG-9675 40 50	Able Lds. Expl.	" Yorse Pet,atol 8 - 1 - 81 6 - 4478 - 42 07
	Public Lda Expl 6	-1-992 E.M. 1 eftyj	Knight, tol	0026	3 40 12 1 0026	
	Roberto		•		there in 10	Siete MTStra-1 Public Lds. Expl Sieter
	Whe with HTShe 78/000	131.4983/ 80	104/320	Bund Top" 208/640 .6	3	0087
	U.S.I . 60 U.S. a 	Mess Prt o'	.60 U.S Florencek#Knight MTS 1/2 Public Lds Expl. Florence	- Yotes	0	.80 U.S. 52/160 MTS 12 Public Lds Expl
	0080 - 0080 -	(415 1/2) (Public Los Espl) 3 36646 0004	Neknight Oost	ده-دهای ۱۹۶۶ - ۱۹۶۶ ۱۹۶۶ - ۱۹۶۶ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱	14-6678 3515	9 · 1 · 09 94647 0087
	13	7 I8	17	16	15	.80-u.s
a terres		71 211.084				•
		Chino-Fed- 649.48	.80 US. 182/560	state 72		Stat
	MTS ¹ /z Public Lde. Expl. 9 - 1 - 89 30583	Public Los Expl.	MTS 2 Public Lds Expl	MTS 52 Public Lola Expl 6 1 LG-0078	MTS 12 Public Lda Expl	Yoves 6 - 1 - 89 L8 - 6680 41 25
	0080 	ī' 0084 J 19	20	40 U 0027 21	40 <u>9</u> 0027	23
		7	195/600	∠'	22	23
	80 Yorn Put etel 162 540 540 540 540 540 540 540 540	7 211.315/	.BO	80 State 209/640 .6	0 510!e 208/640	
	Hire Las East VZ - ATTS /2 A Sea FTT /2 A bie Las East	Public Lds Expl. Vz	Public Lds Expl. Vz	. BD State 200/640 .6	Vorestal	Sist: Votesa
Tre 1	Store 11C 0080	2 0085	2 30655 0085	Yu	MESO	
	24/80	ب ا 30	29		PETROLEUM CO.	
		7		W	PERMIAN BASIN DIVISION	
4	60 U.S_187/50	I HTSV2	-80 U.S. 208/640		.	
	Public Los Expl. 5 MTS (+1+90 (8+7417	Public Lds Expl. 9 - 1 - 89 36644 71 0085	Yates etgi 8 - 1 - 66 L0 - 6693 4193	Y de la	EXHIBIT IV	
	36 -	•	32	ONE-MILE PROPOSED	RADIUS LAND MAP MACHO FEDERAL #2	FOR
	50 F	7' 31	Je			





FOR PROPOSED MACHO FEDERAL #2

ם עביים