Form 9-331 C (Ma) 1963)	Drawas	E. COMMISSIO TEDESTOATE: T OF THE I	~		PLICATE ، ions on e side)	30-005-	/
C/SF GEOLOGICAL SURVEY NM ~ 40							
	N FOR PERMIT	TO DRILL,	DEEPEN	, OR PLUG	ВАСК	6. IF INDIAN, ALLOTT	
1a. TYPE OF WORK	RILL 🛛	DEEPEN		PLUG B		7. UNIT AGBEEMENT	NAME
OIL WELL	GAS WELL X OTHER		- SINGL Zone			8. FARM OR LEASE N	ANE
2. NAME OF OPERATOR					· <u> </u>	LODEWICK	
MESA PETROL	EUM CO.			alon.	:	9. WELL NO.	T EDERAL
3. ADDRESS OF OPERATOR				<u> </u>	1 6 1981	3	÷
1000 VAUGHN	BLDG. / MIDLAND Report location clearly and	, TEXAS 79	701-449	3		10. FIELD AND POOL,	OR WILDCAT
4. LOCATION OF WELL () At surface 1000	Report location clearly and	in accordance wi	th any State		C. D	🗡 UNDESIGNA	ATED ABO
)' FSL & 1980'	FWL NE	:/5W 4	ARTESIA	OFFICE	11. SEC., T., R., M., OF AND SUEVEY OF	BLK.
At proposed prod. zo	-					· · Ut - K	
14. DISTANCE IN MILES	SAME AND DIBECTION FROM NEA	PEGE BOWN OF DOG		······		<u>SEC 17, T</u>	5S, R25E
	north/northea			Now Morrie		12. COUNTY OF PARIS	
15. DISTANCE FROM PROI	PUSED*	ISC OI ROS		ACRES IN LEASE		CHAVES -	NEW MEXIC
LOCATION TO MEAREEL PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) 660'/660' 16. NO. OF ACRES IN LEASE 17. NO. OF ACRES ABSIGNED TO THIS WELL 160 160							
18. DISTANCE FROM PROPOSED LOCATION [®] TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 2600				SED DEPTH 200'	20. BOTARY OR CABLE TOOLS ROTARY		
21. ELEVATIONS (Show whether DF, RT, GR, etc.)							ORE WILL START*
3843.6' 0	GR					NOVEMBEI	R 12, 1981
23.]	PROPOSED CASI	NG AND CI	EMENTING PROG	RAM		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	00T	SETTING DEPTH		QUANTITT OF CEM	ENT
<u> 17 1/2" </u>	13_3/8"	48#		900 '	SURF	ACF	· · · · ·
11"	8 5/8"	24#		1600'	ISOL	ATE WATER, OIL	& GAS
7-7/8"	4 1/2"	10.5#		4200'	COVE	R ALL PAY	
	,	1 <u>.</u>	I		ł		
set 8 5/8"	drill 17 1/2" h urface. Will r casing. Will n . Drilling med	equce noie ipple up RA	to II" M type	and drill t BOPs, reduc	to approx	to 7 7/8" and	to

CAS.	ISI	EDICATES)
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GIL & GAS U.S. GEOLOGICAL SURVEY ROSWELL, NEW MEXICO

∩CT 21 198

xc: USGS (6), TLS, CEN RCDS, ACCGT, 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 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.

BIGNED R. P. Mathin	TITLE _	REGULATORY COORDINATOR	_ DATE	10-20-81
(This space for Federal or State office use) PERMIT NO		APPROVAL DATE		Anth in Brok
APPROVED BY	TITLE		DATE	P.6.5 1. 30
JAMES ANGILLEAM DISTRICT SUPERIORD	See Instructio	ns On Reverse Side		

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

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

		All distances	must be from t	he outer boundaries	of the Section		
perator			Lea	e e			11 N
	Petroleum Co				<u>Federal</u>		3
'nit Letter	Section	Township		Range	County		
ctual Footage Loc		5.9	South	25_East	Chave	S	
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1980 ound Level Elev.		Bouth	iine and Poo	1980	leet from the west	line	
3843.6		ABO	r∞.	UNDESIGN	ATED	Dedicated	
			<u> </u>		or hachure marks	SW/4	<u>160 Am</u>
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Yes If answer	No If	inswer is "yes	" type of co	solidation	actually been cons	solidated. (Use	reverse side o
No allowal	ole will be assign	ned to the well)or until a non-	until all inte standard uni	rests have been t, eliminating su	consolidated (by uch interests, has	communitizati been approved	on. unitization by the Commis
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<u> </u>	 					0-20-81	
1980' ME: 	 S A ET AL = -40030		REG. PHOP	INEER & HID SURVE	shov note unde is t	ernby certify that on on this plat was is of actual surve or my supervision, rue and correct f vledge and belief.	s plotted from field ys made by me o. and that the same
-		- -	A NEW YORK	MEXICO	Regist	urveyed 10-10 ered Professionai Land Surveyor	
_				1 1 1		Cate No. JOHN W.	West A BOMMERS

MESA PETROLEUM CO. LODEWICK FEDERAL #3 1980' FSL & 1980' FWL, SEC 17, T5S, R25E CHAVES COUNTY, NEW MEXICO LEASE NO: NM 40030

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 ON FEDERAL LEASES</u>, Roswell District, <u>Geological</u> Survey of September 1, 1980 will be adhered to.

2.	Geological markers	are estimated as follows:
	Seven Rivers	Surface
	San Andres	637
	Glorieta	1560
	Tubb	3024
	Abo	3655

- 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.



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 approxmately 36 miles northeast of Roswell, New Mexico
 - B. Directions: Travel north from Roswell on US 285 approximately 25 miles to mile marker 139 and turn east on county road 8 miles, then northeast 6 miles then east 1 1/4 miles then south 3/4 mile to Comer #4 then west 1/2 mile to 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, of which 660' is on Federal surface.

(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:
- D. Cut and Fill: In order for the location to be level, approximately 3' will be moved from the north to the south 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 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. <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.
 - 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.

Multi-Point Surface Use and Operation Plan

Page 3

- 9. <u>Wellsite Layout:</u>
 - 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: Red Spring Draw is 1/2 mile to the southeast.
- E. Residences and Other Structures: Benedict Ranch is 1/2 mile to the southwest.

Multi-Point Surface Use and Operation Plan

Page 4

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

13. Certification:

1

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.

Oct. 20, 1981

Michael P. Houston MICHAEL P. HOUSTON

OPERATIONS MANAGER





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400'



