NM OIL CONS. COMMISSION Drawer DD Artesia, NM 88210

								;
UNITED STATES (May 1963) DEPARTMENT OF THE INTER]			(0	SUBMIT IN TRIPLICATE (Other instructions on reverse side)		Form approved. Budget Bureau No. 42-R1425. 30-005-61/21		
		OGICAL SURV		IUR			5. LEASE DESIGNATION NM 40029	ON AND SEBIAL NO.
APPLICATION				N. OR	PLUG B	ACK	6. IF INDIAN, ALLOT	TEE OB TRIBE NAME
La. TYPE OF WORK	;;	DEEPEN			LUG BAC		7. UNIT AGREEMENT	NAME
DRI		DEEPEN	_		MULTIPI		·	
OIL GA WELL WI 2. NAME OF OPERATOR	S OTHER	<u></u>				vsb	8. farm of lease	
MESA PETROLE	UM CO.		·		CED 01	1001	9. WELL NO.	~ .
3. ADDRESS OF OPERATOR 1000 VAUGHN	BUILDING/MIDL	AND, TEXAS 7	9701-		SEP 21	1981	4 10. FIELD AND POOL	, OR WILDCAT
A. LOCATION OF WELL (Be At surface 650'	eport location clearly FNL & 660' FW		ith any S NW/4/		ARTESIA, OF	D. Y	UNDESIGNATE	DR BLK.
At proposed prod. zone		L	NW/4/	NW/4 /	aniesia, Ui	FICE	AND SURVEY OB UL-D SEC 22, T5S	ABEA
SAME 14. distance in miles a	ND DIRECTION FROM ?	EAREST TOWN OR PO	ST OFFICI	e*			12. COUNTY OR PARI	SH 13. STATE
	TH/NORTHEAST	OF ROSWELL,			IN IFARF	17 80 0	CHAVES	NEW MEXICO
LOCATION TO NEABEST PROPERTY OF LEASE LI (Also to nearest drig	D. DISTANCE FROM PROPUSED" LOCATION TO NEAREST PROPERT OR LEASE LINE, FT. (Also to nearest drig. unit line, if ady)			NO. OF ACBES IN LEASE 2120.14		TO TF	60	• . •
15. DISTANCE FROM PROPOSED LOCATION" TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 2640			19. PR	20. R 4400'			ROTARY	
21. ELEVATIONS (Show whe 3768' GR	ther DF, RT, GR, etc.		1		· · · · ·	·	22. APPBOX. DATE NOVEMBER 7	WORK WILL START. 5, 1981
23.		PROPOSED CAS	ING ANI	CEMENTI	NG PROGRA	.М		-
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER	FOOT	SETTIN			QUANTITY OF CE	
17 1/2"	<u> </u>	<u>48</u> # 24#		[800' 600'	SURFAC	E F WATER, OIL	& GAS
7 7/8"	4 1/2"	10.5∉		<u></u>	400'	COVER	ALL PAY	H F ML F
cement to sum 8 5/8" casing	rill 17 1/2" rface. Will g. Will then Drilling me e Dedicated.	reduce hole nipple up P	to ll AM ty	" and di pe BOPs	rill to , reduce	approx hole	imately 1600 to 7.7/8" an ined.	' to set
N ABOVE SFACE DESCRIBE one. If proposal is to	drill or deepen direct	lf pronosal is to de	enen or I	blug back, gi	ve data on pi	resent prod	iuctive zone and prop	posed new productive
preventer program, if any 24.	1		<u></u>					
BIGNED K. F.	Mart	1	TITLE	REGULAT	ORY COOF	DINATO	R DATE SEP	TEMBER 2, 198
(This space for Fede	ral or State office use							
PERMIT NO.	APPROVE	り 074.072 ほうせいけ		APPROVAL D.	АТЕ			· · · · · · · · · · · · · · · · · · ·
APPROVED BY	1		TITLE				DATE	
CONDITIONS OF APPROV	rop						. .	
	FOR JAMES A. GILL DISTRICT SUPER	HAM VISOR *Se e Inst	ructions	On Rever	se Side			

N MEXICO OIL CONSERVATION COMMISS WELL LOCATION AND ACREAGE DEDICATION PLAT

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

9

	A	ll distances must be f	rom the outer boun	deries of the S	ection	· · · · · · · · · · · · · · · · · · ·
perator Mes	a Petroleum	C o.	Lease	Alkali	Fed.	Well by:
Lt Letter D Sec	1100 22	5 South	Bange 25	East	nty	Chaves
tual Footage Location 660 fe	of Well; et from the NOR?	CH line and	660	feet from	the WES'	Γ line
3768.0	Producing Formatio	n	Pool UNDESIG	NATED	20	NW/4 160 Actes
1. Outline the ac	creage dedicated	to the subject we				
2. If more than interest and ro		icated to the well	, outline each	and identify	the ownership	thereof (both as to workin,
	ne lease of differ unitization, unitiz			e well, have	the interests of	of all owners been consuli-
Yes	No If answe	r is "yes?' type o	f consolidation		i i	
					ly been consoli	lated. (Use reverse side or
this form if ne	cessary.)	. <u></u>				,
						nmunitization, unitization, n approved by the Commission
sion.					iereous, nus beg	a approved by the commus
	11 1 1	_	l i			CERTIFICATION
			1		1 hereby	certify that the information con-
660'	E _I SA ETAL		t		tained h	erein is true and complete to the
- NM	40029	-			R.	ny knowledge and belift.
-	 				- Name R. E.	
_	 	-	1		Position	
-		-	1		Contrany	TORY COORDINATOR
_	1	-	1		Date	ETROLEUM CO.
-		_			SEPTEM	BER 2, 1981
	1				/ hereby	r certify that the well location
	1					n this plat was plotted from tield
	1					actual surveys made by melo- supervision, and that the some
	2	الم	1 pra			and correct to the best of my geand belief
	+		A ALANAN	-79-		
	1		N. W. W.	EST /	Date Surve	8-17-81
	1				Registered mid/orttar	Protessional Engineer
	 		 			nullet
330 660 '90	1320 1680 1980 23	10 2640 2000	1500 100	0 800	Ceftilicate	No JOHN W. WEST 67 PATRICK A. ROMERO 640 Ronald J. Eidson 323

APPLICATION FOR DRILLING

MESA PETROLEUM CO. ALKALI FEDERAL #4 660' FNL & 660' FWL, SEC 22, T5S, R25E CHAVES COUNTY, NEW MEXICO

LEASE NO: NM 40029

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

2. Geological markers are estimated as follows:

SEVEN RIVERS	SURFACE
SAN ANDRES	616'
GLORIETA	1591'
YESO	1826'
	3075'
TUBB	3708'
ABO	5700

- 3. Hydrocarbon bearing strata may occur in the Abo formation(s). 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. (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 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 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.

SEP 4 1981

OBLY, CAS U.S. CEOLOGICAL SURVEY ROSWELL, NEW MEXICO

MULTI-POINT SURFACE USE AND OPERATION PLAN

MESA PETROLEUM CO. ALKALI FEDERAL #4 660' FNL & 660' FWL, SEC 22, T5S, R27E CHAVES COUNTY, NEW MEXICO

LEASE NO: NM 40029

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 45 miles North and Northeast of Roswell, New Mexico.
 - B. Directions: Travel North of Roswell on US Highway 285 to Mile Marker 139, turn East on County Road 8 miles, then Northeast 5 miles, turn East (just before cattleguard) on lease road for 1 1/2 miles then South 1/2 mile (Comer #2) then turn East one mile then South 1/2 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 upgraded 2-track.

(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' will be moved from the West to the East 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. 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: SW/SW, Sec 16, T5S, R25E.

- 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.

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:
 - A. Topography: See NMAS, Inc. Archaeological 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: Cocklebur Draw is 1/4 mile to the East and Red Spring Draw is 1/2 mile to the South.
 - 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.

September 2, 1981

MICHAEL P. HOUSTON OPERATIONS MANAGER

DATE







		· · · · · · · · · · · · · · · · · · ·			·
		ابند المعرف ا			5-00 (5-0-4-3 2-12-4-3
25	2	29/20	26 26		Pres -
	(0100) (03-5) 10 7/1201	(3.5) (3.5) 5.5) / (5.5)	0054 13/40 	23	30
3.5.6		5	State		
Construction Const	E trea bers en Loren bers en	Cities Service	Cities Service	Citier Service	
		2 × 1 × 81 L × 5745 192	3 + +- 21 6 2226 7 <u>7</u> 2		Star Proprier 12 Smith Stressing, st 7117 2 Union
32	33	34	35	36	9-1-22 16960 71 31
					Ten T
			Frank Anne Anezal Breeze (1945)	51===	
Linp Tope /			C. ties Service 3 - 10 - 51 1 - 10 - 52 - 45 	CTEL POLICE EL POSD Excl	
S B angemen. In	A - 24 - 54 - 40CC + DIGA	Public Los Expl. 23453 4 00363	1		
Contraction (1998)	E E WRITE UN 14783 1 74414	E FO (DA/ha		Free and the Alter Alter	
+ 440,	inter an Bigling I.	HICA SCHOLINGER +	LT. LOOP MALES	S.A. ademice	
Service Meso Per 1/2 +22-09	Cities Service Verner	101-5 Gent 050	ADO P. 010: 7 (01-05-	rernon Byrnessiere U.S.	Contraction
White .	Internet 11207		Same and an area in the test of a second		۲۳۳ ۲۶ ۲۳. ۲۳۳ ۲۶ ۲۰۰۶ ۲۰۰۶ ۲۰۰۶ ۲۰۰۶ ۲۰۰۶ ۲۰۰۶ ۲۰۰۶ ۲۰۰۶
1 = 1/201 = = = = = = = = = = = = = = = = = = =		1. Loob 40 6 K (10	Fublic Los E		
6.1.1: 2.752 3.52 5.5	ELE WRITE DE T	1 1. 225660	والأباد بمسع للالتكامية يتسبقها بدياحا	(01-05) 152 (01-05) 152 (01-05) 152 (01-05) 152 (01-05) (01-05) 152 (01-05) (01-05) 152 (01-05) (01-05	
5) etc. 80 (150/960	A. T. Lidte Te 76 S. H. Lidte Statistics For communities U.S.	En-192 (E. 6	Santa Constanting Santa	معتال به بن با بن با به با با به با با با مداری به با به با با مودن به با	Sinta
Meso Fre V2 Meso Put Decirc Lestapi. Fublic Lestapi Frie P2 Sister	6-6777	J. BADR (DIDC) JEF 172 (DIDC) 14-773 (2005)	ADD PH MITS V2 E 2000 TO 1. 15 FUELIC LES.ECO FORM	6-22-00 IDPORT	Yeres Ferlere
0183	53 (MESEI	(01,04) LE wrate	14514 S. 177	THAT THE LARGE
***	IE Er. Pr	FED COM MIS 1	60 Schebing	BO GITETES ELE	18 It 18
. et 160/320 1.1.47.5. U.S. Compile	<u>.</u>	25.80 U.S. 104/320	- W W Howcoci)-	Adjanie LEnne 13399 Horasia (Scherne Scherninger Anal (Scherne Schere Scherne Scherne Scherne Scherne Sche	5
4. Rost -	L TONE L TONE SHADE	EA FIRIKEUTS WE FIDE FILL D FUNCTES Expl.	U.S. MTE Y DILC ADO PH. 15 UNIC LOS EXPL.	Transferration of the second	53 of e
	MTS 1/2 (01,04)	ecozy D164	4002 E		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
20	$\begin{bmatrix} B_{1} \\ B_{2} \\ B_{1} \\ B_$	3 ALTAL 22 FIDERLL	U.S. Hereing	5.57/40,	19
÷	T & here 1	0	See - 1 - 21 - 25 - 13 - 13 - 13 - 13 - 13 - 13 - 13 - 1	13375	E.
U.\$. =	ALL FEDERAL	. 60 201/6 40	Hese to the service of the service o	0.6.71.05 D U.S. Steic	Den M States 22 Den States State
McCirilen Cil S · i · es Féaty	McClevian Dit Excent 36402	Funic - 0164 (Lea Ernel (13/40) English (14/40)	Ista I CA Schelinger - Ista I I Ista I I Es marien El unet 6 12-86 El unet 6 12-86	El Part Ext	Y==es==e
29	28	Linon Linorti.	It which the series	5 <u>5</u>	577 22 75 25 5467 51 25 51 25
		CODENS' FORCE	26 010¢ 26 010¢ 2720 0110 2720 0110 2720 0110 7755		
1	Noim rzi Note: Ritore - Titore	2.3.44	CONTENT (0134)	123#1	21:11 7 21:55 0042 104,01
Yeras Per,	مراجع میں عرب اور		V.60 T	Fear Stevens	180 U.S. 25.
1-4774 278		6		2 : to 2 : 427 2 4 10	Public Los, Expl. 5-1-02 1-0456 Gable Ti-CO40
32	Lec Intensent			- 36	ة عربية 31
	Fuence Ler Exel. 1 AIKLOIGE	K + contact 25/120 66	Pushic Los Exel : 1995	۲۰۰۶ و ۲۵ ۲۳۲۸ ۴ ۳۰ ۴۰ ۱۰ ۵۰۸ ۴۰	2
*	150/40		. 80 42. 1200 15.	i siere	209.225/
NU E W E	Size was a first a second s	156.6 (State Contraction of the state of the	1 • <u>04</u> 1 1 ·	Stress Stress L	4317 • 1
دی بینو در در از در	mei Yerrs Yeirs Sisie Sisie				
	1	Antonia Antonia Antonia Antonia Antonia Antonia		PETROLEUM	co.
7		Veres (Yeter Yeter	PERMIAN BASIN I	DIVISION
			2 2 2 4 1 4 1 2 2 4 4 4 4	EXHIBIT IV	
	te: Ners	A Processing States	ONE-	MILE RADIUS LAND	
		Here Bar	2 J. J. horne	OSED ALKALI FEDE	NML #4
the in Emergy rise	- + Course			÷ .	
1	the stand the				











3,000 PSI WORKING PRESSURE KILL, CHOKE , AND FILL CONNECTIONS

DETAIL OF 4" FLOW LINE CHOKE ASSEMBLY

Minlmum assembly for 3,000 PS1 working pressure will consist of three preventers. The bottom and middle preventers may be Cameron.

NOTE: HYDRIL not installed on shallow-low pressure wells. RAAM type BOPs are API 10" X 3000 PSI

