Form 9-381 C (May 1/63)

RMIL	IN TR	CATE
Other	instruct.	9 OD

5.

	Budget	Bureau	No.	42-R14	25.
30-	00	5-1	60	97	0

reverse side)	30-005-60
	5 LEASE DESIGNATION AND SEE

_		_		_	•	ر ب		`
5.	LEASI	D	SIG	ATION	AND	832	IAL	NO.
٨	IM 3	66	52	٠.				

_	DEPARTMENT	OF THE I		MOIN			5. LEASE DESIGNATION	N AND BERIAL NO.
C/37	GEOLO	GICAL SURV	ΕY				NM 36652	
APPLICATION	N FOR PERMIT	O DRILL, I	DEEPE	N, OR P	LUG BA	ACK	6. IF INDIAN, ALLOTT	EE OR TRIBE NAME
la. TYPE OF WORK								RECEIVED
DRI	LL 🛚	DEEPEN		PL	UG BACI	K 🗌	7. UNIT AGREEMENT	NAME
b. TYPE OF WELL	_							
WELL W	ELL X OTHER			NE X	MULTIPLE ZONE	<u> </u>	8. FARM OR LEASE N	**MAY 2 2 1981
2. NAME OF OPERATOR	/				أرياس اسب		BARN FEDERA	L · A ·
MESA PETROLEI	JM CO.			-7057	775711	1	9. WELL NO.	0. C. D.
3. ADDRESS OF OPERATOR			-67	<u>(5/8/5)</u>		II	a 4 월 한 형	ARTESIA, CEFICE
1000 VAUGHN I	BUILDING/MIDLAN	D.TEXAS 797	जी)रू	The second	1081 1	//	10. FIELD AND POOL,	OR WILDCAT
4. LOCATION OF WELL (Re	eport location clearly and	in accordance wit	TO THE	tate requireme	nts.)	100 J	∠ UNDESIGNATE	D ABO
At surface	O' FSL & 1650'	FFI	HM	WHI	is water	-	11. SEC., T., B., M., OH	BLK.
At proposed prod. zon			110	ON E IN	1756	?	Ut-J	
SAME			()	to the Color		1	SEC 13, T8S	, R22E
	AND DIRECTION FROM NEAR	REST TOWN OR POS	r offici	•			12. COUNTY OR PARIS	
20 MILES NO	ORTH OF ROSWELL	NEW MEXICO)			<u>.</u>	CHAVES	NEW MEXICO
15. DISTANCE FROM PROPO LOCATION TO NEAREST	SED*			. OF ACRES IN	LEASE		OF ACRES ASSIGNED HIS WELL	7.3.0
PROPERTY OR LEASE L	INE, PT.	1980'		1600	ļ		160	
8. DISTANCE FROM PROP	OSED LOCATION*		19. PR	OPOSED DEPTH			RY OR CABLE TOOLS.	
TO NEAREST WELL, DI OR APPLIED FOR, ON THE	RILLING, COMPLETED, IS LEASE, FT.	2640'		3500'			ROTARY	
21. ELEVATIONS (Show who			<u>.</u>		•		22. APPROX. DATE V	VORK WILL START*
3985.5' GF	₹						JUNE 15	, 1981
23.	I	PROPOSED CASI	NG ANI	CEMENTING	PROGRAI	M.		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	TOO	SETTING D	EPTH		QUANTITY OF CEM	ENT
12 1/4"	8 5/8"	24#		1000'			LATE TO SURFA	
7 7/8"	4 1/2"	10.5#		3500'		SUFFI	CIENT TO ISOLA	ATE WTR, 0&G

Propose to drill 12 1/4" hole to 1000' or deeper to set 8 5/8" sunface casing and cement to surface. Will install ram type BOP's and drill 7 7/8" hole to total depth. Drilling medium will be air, foam, or mud as required. After log evaluation, 4 1/2" casing may be run and cemented with sufficient kinds and amounts to isolate and seal off any fresh water, oil, or gas zones encountered.

Gas Sales Are Dedicated To Transwestern Pipeline Co.

XC: USGS (6), TLS, CEN RCDS, ACCTG, ROSWELL, MEC, LAND, PARTNERS, FILE IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone 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. F. Platter	TITLE	REGULATORY	COORDINATOR	DATE_	APRIL 27, 1	981
(This space for Federal or State office use) (Org. Sed.) GLORGE H. STRVARD		APPROVAL DATE				
MAY 1 9 1981	TITLE		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	DATE _	茅食 ^T ときか カロコ 1 = 1	
CONDITIONS OF APPROOF, IF ANY: JAMES A. GILLHAM DISTRICT SUPERVISOR			9 (1)			

N MEXICO OIL CONSERVATION COMMISS WELL LOCATION AND ACREAGE DEDICATION PLAT

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

Lerator Well No. MESA PETROLEUM COMPANY BARN FEDERAL rur Letter 8 SOUTH 22 EAST **CHAVES** A tuil Fortage Location of Well: 1980 teet from the SOUTH 1650 EAST line and and . eve. Elev Producing Formation Pool Dedicated Acreage: 3973.3 AB0 UNDESIGNATED SE/4 160 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling. etc? If answer is "yes," type of consolidation If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.). No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commis-CERTIFICATION I hereby certify that the information contained herein is true and complete to the Name <u>R. E. MATHIS</u> REGULATORY COORDINATOR MESA PETROLEUM CO. MAY 8, 1981 MIE SIA I hereby certify that the well location NM 36652 shown on this plat was plotted from field 1650 notes of actual surveys made by me or is true and correct to the best of my knowledge and belief. Date Surveyed <u>4-14-81</u> Registered Fir fessional Enginee V S PATRICK A. ROMERO 6663

26 40

2000

1 500

1000

800

Ronald J. Eidson

330

APPLICATION FOR DRILLING

MESA PETROLEUM CO.
BARN FEDERAL #4

1980' FSL & 1650' FEL, SEC 13, T8S, R22E
CHAVES COUNTY, NEW MEXICO

LEASE NO: NM 36652

In conjunction with Form 9331C, 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.
- 2. Geological markers are estimated as follows:

SAN ANDRES

GLORIETTA

ABO

HUECO

SURFACE
615'
800'
2880'

- 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 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 GRCNL 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.

MULT 'OINT SURFACE USE AND OPERATION LAN

MESA PETROLEUM CO.
BARN FEDERAL #4

1980' FSL & 1650' FEL, SEC 13, T8S, R22E
CHAVES COUNTY, NEW MEXICO

LEASE NO: NM 36652

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 20 miles north of Roswell, New Mexico.
- B. Directions: Take US Highway 285 north of Roswell for approximately 12 miles and turn west at mile marker 127 on county road for 6.5 miles and turn south (just past cattleguard) for 7/10 mile then turn west (at Rock Fed #5) for 7/10 mile and turn south (at Barn Fed #3) 1/2 mile then due west 3/10 mile to the location.

2. Planned Access Road

A. Length and width: The new access road will be 12' wide (16' ROW) and approximately 3/10 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 5' of cut from the north side will be moved to the south side for fill.

3. <u>Location of Existing Wells</u>

Existing wells within a one-mile radius are depicted by Exhibit IV.

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 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

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: SE/4 Sec 12, T8S, R22E.

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.

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 plasticulined.

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: Salt Crrek is 1/2 mile to the south.
- E. Residences and Other Structures: There are no residences or other structures in the vicinity of the proposed well.

Page 4

- F. Land Use: Grazing.
- G. Surface Ownership: The wellsite is on Federal surface.
- 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:

J. James P. O. Box 298 Roswell, New Mexico (505 623 0989 Unit #4039)

Michael P. Houston 1000 Vaughn Building Midland, Texas 79701 (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.

APRIL 27, 1981

DATE

MICHAEL P. HOUSTON OPERATIONS MANAGER









