io.c.d. coby

SUBMIT IN TI CATE\* Form approved. Budget Bureau No. 42-R1425.

# (Other instructions on

UNITED STATES	reverse side)	31
DEPARTMENT OF THE INTERIOR		5. L

GEOLOGICAL SURVEY NM 40029						
APPLICATION	Y FOR PERMIT TO	DRILL, DE	PEN, OR PLUG	BACK	6. IF INDIAN, ALLO	TILE OR TRIBE NAME
a. TYPE OF WORK	ILL 🛛	DEEPEN	PLUG B	ACK 🗆	7. UNIT AGREEMEN	T NAME RECEN
b. TYPE OF WELL		<b>D D D D D D D D D D</b>		TIPLE -		<u> </u>
WELL W	AS OTHER	<del></del>	SINGLE ZONE ZONE	<u> </u>	8. FARM OR LEASE ALKALAI FED	: AUG 07
MESA PETROLEU	IM CO.	(	77 <b>7777</b>	দল্পনা -	9. WELL NO.	<del></del>
MESA PETROLEUM CO.  3. ADDRESS OF OPERATOR  ARTISIA OFFIC						
	BUILDING/MIDLAND, teport location clearly and in			<u> </u>	10. FIELD AND PO	OL, OR WILDCAT
	FSL & 400' FWL	Recordance with a	コア 1. 16世代の <b>日本の表表</b> は20	" 2019	UNDESIGNATE	OR BLK.
At proposed prod. zon			OIL & GAS		UL M	PR AREA
SAME		· .	U.S. GEOLOGICAL S POSWELL, NEW MI		SEC 33, T5S	
	AND DIRECTION FROM NEARE TH/NORTHEAST OF R			;	CHAVES	NEW MEXICO
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LOCATION TO NEARES PROPERTY OR LEASE ! (Also to nearest drl	LINE, FT. 4UC	'/400'	2120.14	10 T	160	
8. DISTANCE FROM PROI TO NEAREST WELL, I	POSED LOCATION* DRILLING, COMPLETED, ] OC		PROPOSED DEPTH	20. BOTA	ROTARY	777 (177) 111, 411
OR APPLIED FOR, ON TE	ether DF, RT, GR, etc.)	]		<del></del>	22. APPROX. DAT	E WORK WILL START*
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3.	PR	OPOSED CASING	AND CEMENTING PRO	GRAM	10 mm m m m m m m m m m m m m m m m m m	10 H H
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER POOT	SETTING DEPTH		QUANTITY OF C	
17 1/2"	13 3/8"	48#	9001,800		LATE TO SURF	
<u>]]"</u>	8 5/8"	24# 10.5#	1600'	SUFFI		)LATE WTR . 0&( /ER ALL PAY
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			900		. " <b>" =</b>	
Propose to d	rill 17 1/2" hold l cement to surfa	on air or	roam to 200° or	aeeper <u>a</u>	to set 13 3/	Will
casing. Wil	asing if water zo	nes have he	en encountered	or omita	if not. Wi	֓֞֝֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓
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air foam o	r mud as required	d. After lo	q evaluation, 4	1/2" ca	.sing/may_be:	run and 🎺 🥍
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.						
						4, 190
Gas Sales Ar	e Dedicated.			×'		The state of
XC: USGS (6	), TLS, CEN RCDS	ACCTG ROS	WELL, MEC, LAND	, PARTNE	RS, FILE	
	P PROPOSER PROCESS. If D	onosal is to deenen	or plug back, give data of	on present pro	ductive zone and pr	oposed new productive
one. If proposal is to reventer program, if a	drill or deepen directionall	y, give pertinent de	ta on subsurface location	ns and measure	ed and true vertical	depths. Give blowou
4.				÷		
SIGNED R. P.	Martin	TITLE	REGULATORY	COORDINA	TOR DATE J	ULY 23, 1981
	éral or State office use)			<del> </del>		
(THIS SPACE IOT LEG	APPROVED	<b>٠</b>				
PERMIT NO.	111		APPBOVAL DATE		-	
APPROVED BY	ger u. Chaff	TITLE	<u> </u>		DATE	<u> </u>
	VAL, 1F AUG 5 1901	1				÷ :

JAMES A. GILLHAM DISTRICT SUPERVISOR

\*See Instructions On Reverse Side

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r.perator Mesa	Petroleum Co	•	Lease	Alkali	Fed.		Well No.	L
'nit Letter AM Sec	Towns	5 S	Romge	25 E	county	Ch	aves	
Actual Footage Location								
	et from the SOUTE	line and	400	feet	from the	WEST	line	····
Ground Level Elev. 3756.5	Freducing Formation ABO		UNDES	GNATED			iscated Acreage: SW/4 160	Acres
1. Outline the a	creage dedicated to	the subject we	ll by colored	pencil or	hachure	marks on the p	lat 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?								
Yes	No If answer i	s "yes," type o	f consolidatio	on				-
	'no.'' list the owners	and tract descr	iptions whic	h have ac	tually bee	en consolidated	l. (Use reverse	side of
this form if ne		33 42 33		1	1. 1	1 /1		
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	1					R. F.M.	toh	
	· <del>-</del>					Name R. E. MATH	IS	
	i .		1			Position REGULATORY	COORDINATOR	₹
	1		1			Company MESA PETRO	LEUM CO.	
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-099	1	-				and/or Land Sur		<b>.</b> .
	<u>il I I I</u>		<u> </u>			Certificate No	JOHN W. WEST	876
2 330 660 190	1320 1680 1980 2310	2640 2000	1800 1	000 80	0	Р	ATRICK A ROMER longid J. Eidson	
							V: - 14 2011	

#### \*\PPLICATION FOR DRILLING

## MESA PETROLEUM CO. ALKALAI FEDERAL #1 660' FSL & 400' FWL, SEC 33, 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:

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

	Surfac
	611'
	1586'
	3071'
2 *	3704'
	4378'

- 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. 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.

MUTLI-PC .T SURFACE USE AND OPERATION PL.

MESA PETROLEUM CO.
ALKALAI FEDERAL #1
660' FSL & 400' FWL, SEC 33, T5S, R25E
CHAVES COUNTY, NEW MEXICO

LEASE NO: NM 40029

U.S. GEOLOGICAL SURVEY
ROSWELL, 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.

#### 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 40 miles North/Northeast of Roswell, New Mexico.
- B. Directions: Travel North of Roswell on US Highway 285 to mile marker 139, turn East on county road for 8 miles then Northeast one mile, turn East along MAPCO Pipeline for 5 miles to junction with county road then turn North 1 mile then East on lease road for 4/10 mile to location.

#### 2. Planned Access Road:

A. Length and width: The new access road will be 12' wide (20' ROW) and approximately 4/10 mile of new road.

(See Exhibit II)

١

- 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: None.

## 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.

# Location and Type of Water Supply:

It is planned to drill the proposed well with 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: Along the county road in Sec 7, ToS, R26E, Chaves County, New Mexico.

# 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 hadled 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.

#### 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 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: The land surface in the vicinity of the wellsite is gently sloping to the East.
- 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: Alkalai Draw is 7/10 mile to the East.
- 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:

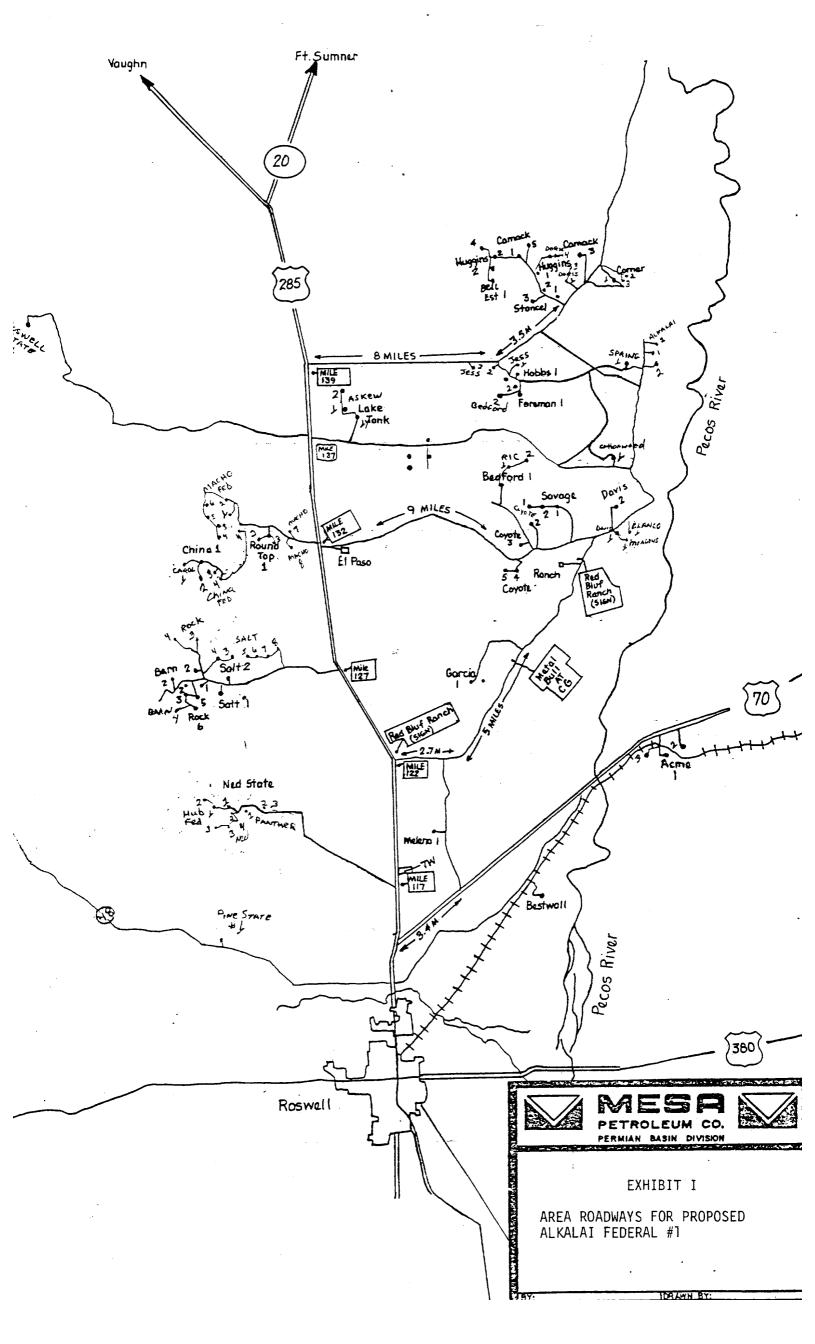
J. James
P. O. Box 298
Roswell, New Mexic
(505-622-0992) - Office
(505-622-0234) - Home

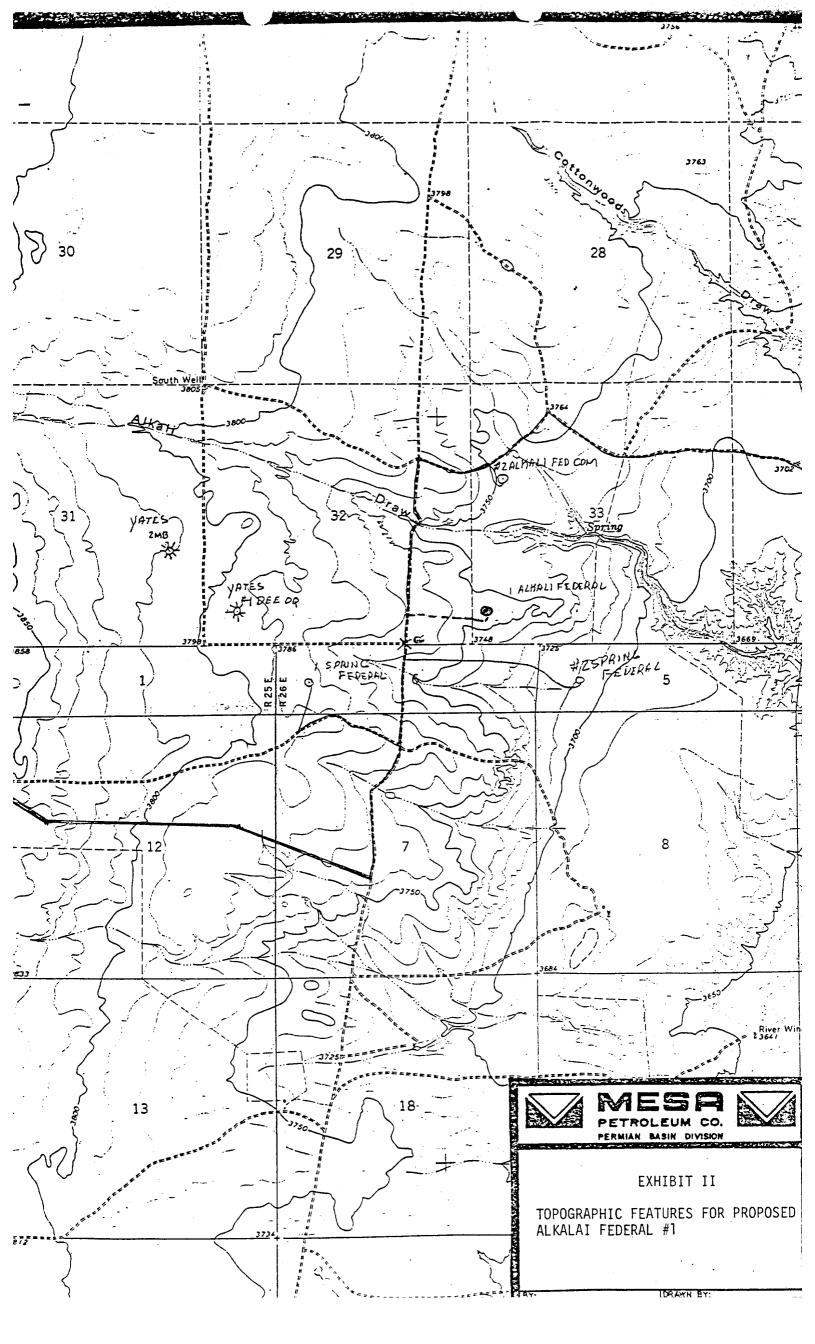
W. R. Miertschin 1000 Vaughn Building Midland, Texas 79701 (915-683-5391) - Office (915-682-6535) - Home

#### 13. Certification:

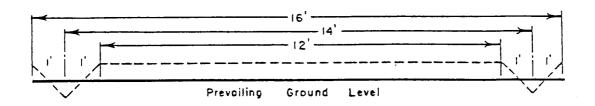
I hereby certify that I, or person under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge true and correct; and, that the work associated 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.

July 23, 1981	
DATE	MICHAEL P. HOUSTON OPERATIONS MANAGER



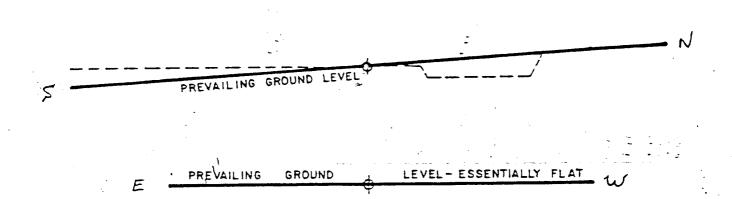


R - 0 - W 16'



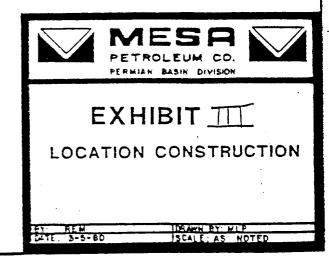
# ROADWAY CROSS SECTION

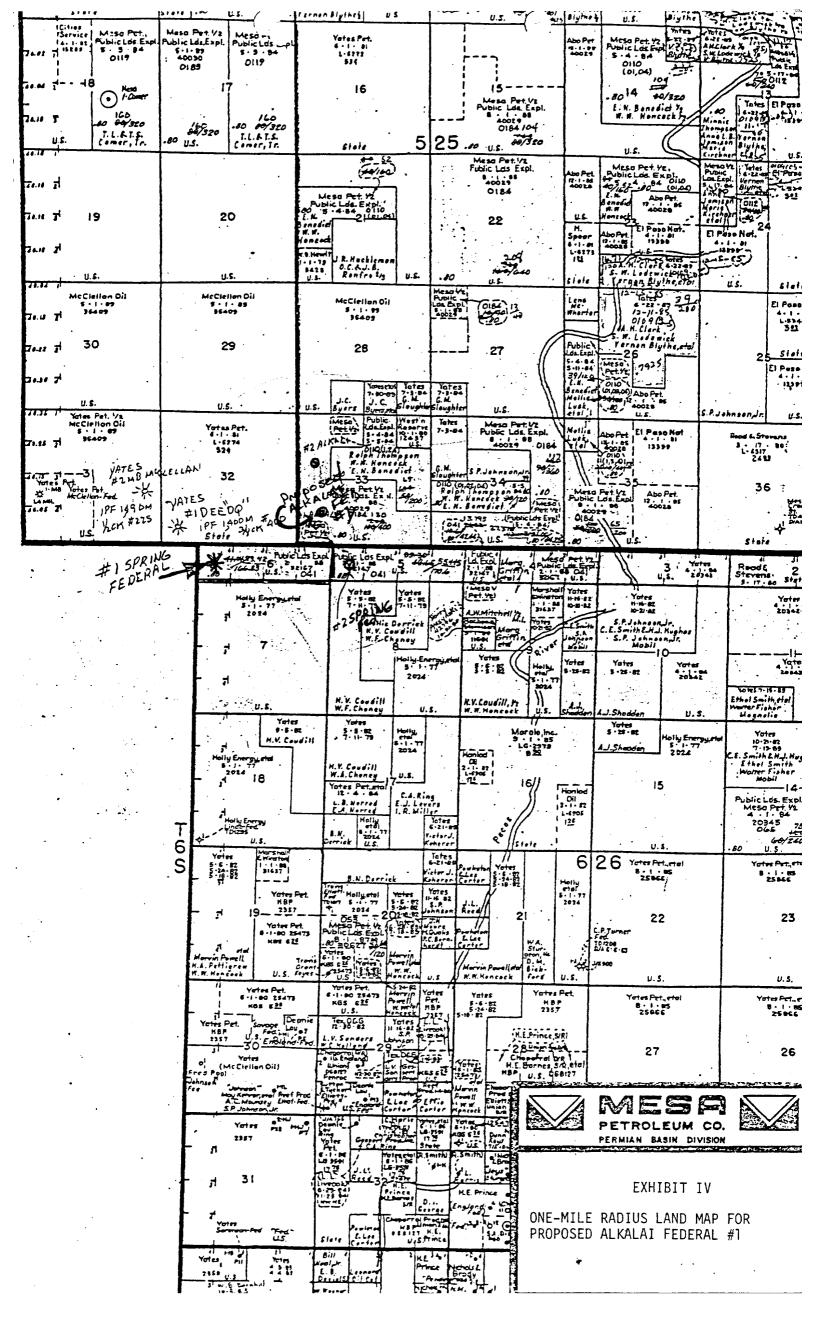
Horizontal Scale 1" = 3

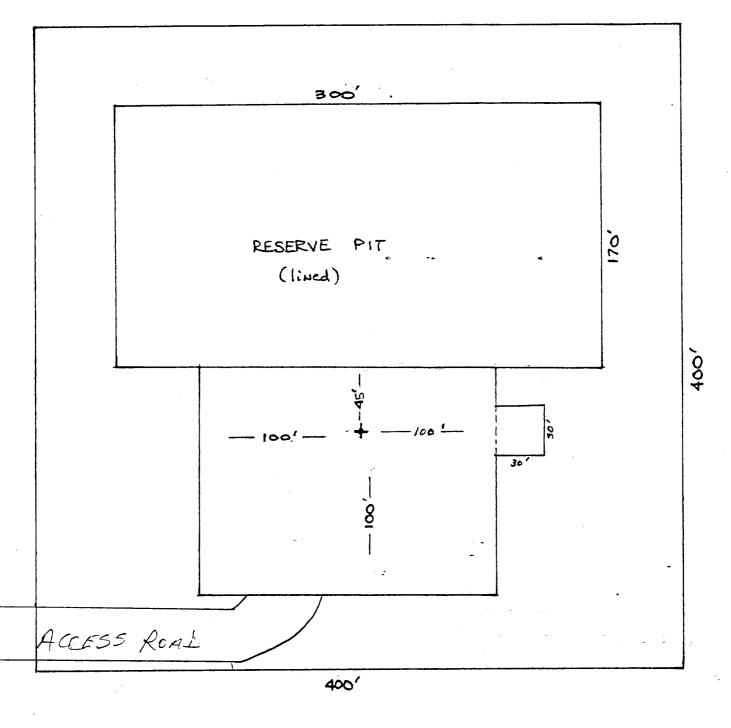


## LOCATION CROSS SECTION

Horizontal Scale 1" = 50'













# MINERALS DEPAR

OIL CONSERVATION DIVISION

LARRY KEHOE SECRETARY

August 3, 1981

AUG 06 1381

POST OFFICE BOX: 2088 STATE LAND OFFICE BUILDING BANTA FE, NEW MEXED 87501 (505) 827-2434

O. C. D. ARTESIA, OFFICE

Mesa Petroleum Co. Vaughn Building Suite 1000 Midland, Texas 79701

> Application for Non-Standard Re: Location: Alkalai Federal No. 1 Sec. 33, T-5-S, R-25-E, Chaves · County, New Mexico

We may not process the subject application for non-standard location until the required information or plats checked below (is) (are) submitted.

A plat must be submitted clearly showing the ownership of the offsetting leases.

A statement must be submitted that offset owners have been notified of the application by certified mail.

A plat must be submitted fully identifying the topography necessitating the non-standard location.

Please show the dedicated acreage and proposed Other: completion formation(s).

R. L. STAMETS

Technical Support Chief

RLS/dr