## SUBMIT IN TRIPLICATE®

Form approved.

Form 9-331 C (May 1963)			(Other instruc	Budget Bureau No. 42-R14	_
(1/2) 1000)	UNIT	ED STATES	reverse si	30-075-20-	<u> </u>
	DEPARTMENT	OF THE INT	ERIOR	5. LEASE DESIGNATION AND BERIAL N	0,
	GEOLOG	SICAL SURVEY		SF-078316-F	
APPLICATION	I FOR PERMIT T	O DRILL, DE	EPEN, OR PLUG B	6. IF INDIAN, ALLOTTER OR TRIBE NAM	I D
1a. TYPE OF WORK	1 [V]	DEEPEN [	PLUG BAG	7. UNIT AGREEMENT NAME	_
DKII b. TYPE OF WELL		DEEPEN L			
OIL GA	S X OTHER		SINGLE ZONE ZONE		
2. NAME OF OPERATOR	<u> </u>			State Com	
Mesa Petrol	eum Company			9. WELL NO. 41	
3. ADDRESS OF OPERATOR		70105		10. FIELD AND POOL, OR WILDCAT	
P.O. Box 20	09, Amarillo,	exas /9105	Ch. A. manufacturents \$	Blanco Pictured Cli	ff
4. LOCATION OF WELL (Re			my State requirements.	11. SEC., T., R., M., OR BLK.	
K	1760' FSL & 18!	OO. FML		AND SURVEY OR AREA	
At proposed prod. zone	e Came			Sec 32 31N - 9W	
14. DISTANCE IN MILES A	Same	EST TOWN OR POST O	FFICE*	12. COUNTY OR PARISH   13. STATE	
•	. of Aztec, Ne			San Juan New Mex	ic
15. DISTANCE FROM PROPO			6. NO. OF ACRES IN LEASE	17. NO. OF ACRES ASSIGNED TO THIS WELL	
LOCATION TO NEAREST PROPERTY OR LEASE L	INE. FT.		334.88	160 /50 2	کـ .
(Also to nearest drlg 18. DISTANCE FROM PROP	noit line, if any)		9. PROPOSED DEPTH	20. ROTARY OR CABLE TOOLS	
TO NEAREST WELL, DI OR APPLIED FOR, ON THI	RILLING, COMPLETED,		3380	rotary	
21. ELEVATIONS (Show who		•		22. APPROX. DATE WORK WILL STA	RT*
6341 GL				July 1, 1977	
23.	I	PROPOSED CASING	AND CEMENTING PROGR	AM - 설흥형과 중국회 글 수	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT	
121/4	8 5/8	20#	130	150 sacks class "B"	
7 7/8	3 1/2	9.2#	3380	100 sacks 65-35 Poz mix 12	2
				gel + 100 sacks class "B"	
		1			
Move in - 1	rig up rotary t	ools. Drill	12½" hole to 130	feet and case as above.	
Install and	d test blow out	preventer.	Drill / //8" noi	e to 3380 feet and case	
as above.	If well is non	-commercial	it will be plugge	d and abandoned as per	
U.S.G.S1	nstructions.				
	T	-n+icinated	and the well wil	1 be drilled with mud having	
No abnorma	i pressures are	+icts: WTT	9.0# per gallon,	viscosity 32 + Setunds Dem	
the Tollow	. 10 c.c. ±.	CICUS. WIT	5.0% per garrons	RECEIVED	
quart, w. i	. 10 C.C				
Gas under	this lease is d	ledicated to	El Paso la la companya de la company	Sas JUN 2 9 1977	
das allaci	••				
				COS SUBSECTION OF SUBVEY	
			11.	7. 3 Emmination A M	[
IN ABOVE SPACE DESCRIB	E PROPOSED PROGRAM: If drill or deepen direction	proposal is to deeper ally, give pertinent (		prepart productive zone and proposed new productive zone and true vertical depths. Give bloom and true vertical depths.	)WOU
preventer program, if a			10.		
24.	$I \cap I$	0	Agent	6-15-77	
SIGNED	n Wesan	TITL	- Agent	DATE	
(This space for Fed	eral or State office use)			N Tab By at Boak	
/ ***** ~ **** * * * * * * * * * * * * *	•			the state of the s	

TITLE

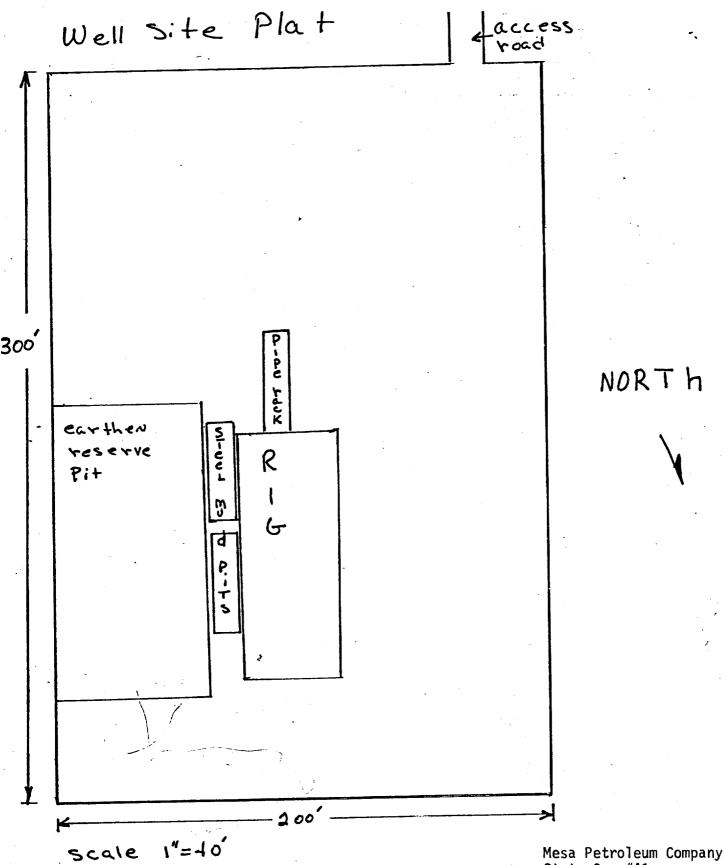
APPROVED BY \_\_

CONDITIONS OF APPROVAL, IF ANY:

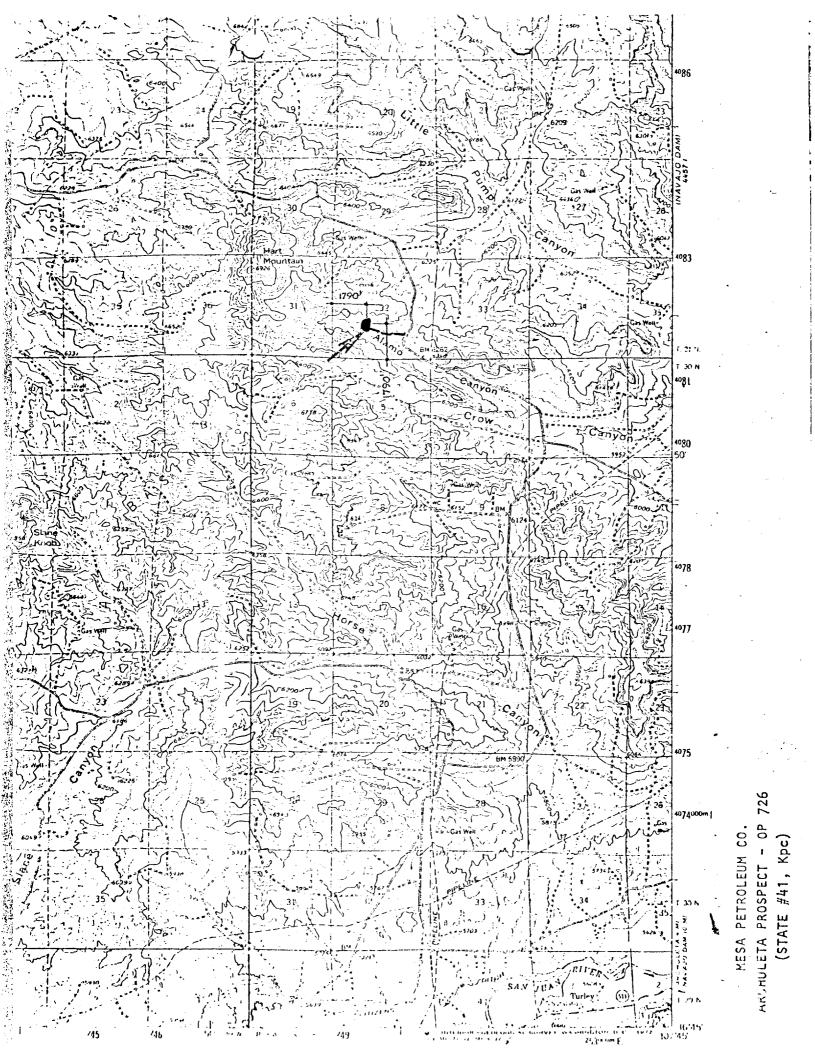
APPROVAL DATE

All distances must be from the outer boundaries of the Section.

Operator		Lec	· · · · · · · · · · · · · · · · · · ·			Well No.		
Mesa Petroleum Co.  State Com					41			
Unit Letter	Section	Township	Range	County				
K	32	31 North	9 West		San Juan	·		
Actual Footage Lo		CAL	1050	•	hd a a d			
1760 Ground Level Elev	feet from the Producing Form	South line and Poor		t from the	West	line		
6341	Picture		Blanco Pictu	red Cliff		160 /59.23 <sub>Acres</sub>		
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?							
Yes	No If an	swer is "yes," type of co	onsolidation					
If answer	is "no." list the o	wners and tract descript	ions which have a	etually haar	consolidated	(Hee reverse side of		
this form	if necessary.)	and muct descript	.ons which have at		consolidated.	COSC TEVELSE SIDE OI		
No allowa	ble will be assigne	d to the well until all int	erests have been d	onsolidated	d (by communi	tization, unitization,		
forced-poo	oling, or otherwise)	or until a non-standard un	it, eliminating suc	h interests,	has been appr	oved by the Commis-		
sion.				<del>- ,                                </del>				
	1		1	<del></del>	CEF	RTIFICATION		
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	ļ		i		I hereby certify	that the information con-		
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	l i		I .		best of my know	rledge and belief.		
	i				John Alexar	nder		
	+		<del></del> -	[	Nome			
			i		Agent Position			
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					Date Contract of the Contract	Englisher.		
	.10		l i		Date Surveyed  January I	9 1977		
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	<u> </u>				and/or Land Surve	yor		
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					Certificate No. 3			
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State Com #41 1760' FSL & 1850' FWL Sec 32 - 31N - 9W Blanco Pictured Cliff San Juan County, New Mexico



## Archaeological Clearance Survey Report

for

Mesa Petrcleum Company

Locations

Siter No. 1 X-A State (om No. 41

Prepared by Pat Zarnowski

Submitted by
Dr. J. Loring Haskell
Operations Director and
Principal Investigator
Agency of Conservation Archaeology

#### Introduction

The Agency of Conservation Archaeology of the San Juan Courty Museum Association and Eastern New Mexico University recently completed an archaeological clearance survey in Cox Canyon and Alamo Canyon. This land is to be impacted by the scheduled construction of two wells by Mesa Petroleum Company of Antec, New Mexico.

The survey project was initiated at the request of Mr. Jack Cook of 3 E Company, Inc. on February 3, 1977. It was administered by Mr. Cook and by Dr. J. Loring Haskell, who serves as the principal investigator for the Agency of Conservation Archaeology in Portales, New Mexico.

The field work was conducted by Ms. Pat Zarnowski of the Arency of Conservation Archaeology in Farmington on February 4, 1977 under provisions of Federal Antiquities permit No. 76-NM-023, which expires on March 7, 1977. Other representatives in the field included Mr. Jack Cook of 3 E Company, Inc., Mr. Bob Moore of the Eureau of Land Management, Mr. Ray Swanson and Mr. Bill Hoppe of the United States Geological Survey, and Mr. Joe McKirney of Atchinson Construction.

#### Survey

The requested archaeological clearance survey involved the two well locations described below and located on land under the jurisdiction of the Bureau of Land Management. For specific details of location, please see the attached maps and the Recommendations section of this report.

The general survey procedure used was to walk the area of proposed construction in a zigzag manner. Visual inspection was made of the ground surface for evidence of any artifactual remains of historic or prehistoric origin. Erosional gullies were checked for signs of subsurface activity. Floral, faunal and geological observations were made to briefly describe the environmental situation.

#### Suter No. 1 X-A

Environment: This well is to be located in Cox Canyon, about three quarters of a mile south of the Colorado border. There is an existing pipeline here and it will be adjacent to the east side of the well pad. The pipeline will also serve as the access route to the well. The predominant vegetation where construction will take place is the big sagebrush (Artemisia tridentata), tumble weed (Salsola kali), four wing saltbush (Atriplex canescens) and cheat grass (Bromus tectorum). The eastern side of the pad area is open, but the other three sides are bordered by a sandstone mesa. At the foot of the mesa pinons (Pinus edulis), junipers (Juniperus sp.), yucca (Yucca baccata) and snakeweed (Cutierrezia sarothrae) are growing. The soil is a loose sandy loam. A small herd of deer was spotted in this general vacinity.

Frige 2 Fabruary 7, 1977 Masa Petroleum Company

Cultural resources: None.

### State Com No. 41

Environment: The head of Alamo Canyon is the proposed location for this well. Portions of the area where construction will take place are disturbed as a result of activities related to an already existing well, which will be adjacent to this well at the southwest corner. Big safebrush (Artemisia tridentata), four wing saltbush (Atriplex canescens) and various grasses are the main vegetation here. There is a deep drainage gully on all but the southwest side, and this was checker very closely for any subsurface and eroding archaeological material.

Cultural resources: None.

#### Recommendations

Well	Area	Location	Clearance Status
Suter Fo. 1 X-A	Pad: 300'	1,190 feet from the North line, 2,110 feet from the West line in the Northeast ½ of the North- west ¼ of Section 13, Township 32 North, Range 11 West, San Juan County, New Mexico. Map source: U. S. G. S. 15 minute Aztec Quad- rangle.	Recommended
State Com No. 41	Pad: 300'	1,760 feet from the South line 1,850 feet from the West line in the Northeast ½ of the Southwest ½ of Section 32, Towns ip 31 North Range 9 West, San Juan County, New Mexico. Map source: J. S. G. S. 15 minute Aztec Quadrangle.	

Because no archaeological material was encountered during the survey of these two locations, it is recommended that archaeological clearance be granted. It is felt that the construction of these wells will not have any adverse impact on our cultural resources.

# 3E COMPANY, INC.

Engineering • Energy • Exploration

P. O. Bax 190 -:- 505/327-4020

FARMINGTON, NEW MEXICO 87401

June 14, 1977

U.S. Department of Interior Geological Survey P.O. Box 959 Farmington, NM 87401

Attention: Mr. P. T. McGrath

District Engineer

RE: Development Plan for Surface Use

Mesa Petroleum Company

State Com #41

1760' FSL & 1850' FWL Sec 32 - 31N - 9W Blanco Pictured Cliff

San Juan County, New Mexico

#### Gentlemen:

Attached is the "Application for Permit to Drill" (form #9-331C) for the subject well. Also enclosed are the following items: surveyor's plat, drill site plat, vicinity map and archaeoligical report. Mr. Bob Moore of the Bureau of Land Management, Mr. Ray Swanson of the United States Geological Survey and Ms. Pat Zarnowski of the Agency of Conservation Archaeology have inspected the site.

The development plan for surface use is as follows:

Points 1, 3, 4, 6, & 9 Vicinity map and drill site plat attached.

Point 2. Water bars will be used on all roads where necessary.

Point 5. Water for drilling will be trucked from Aztec, New Mexico approximately 7 miles to the southwest.

Point 7. A waste disposal pit will be provided for the garbage and trash.

Location shown on drill site plat. Drilling fluids will be contained in reserve pit until such time as evaporation occurs and then pits will be covered.

Point 8. No camps or airstrip.

U.S. Department of Interior Page 2
June 14, 1977

- Point 10. Should the well be a commercial producer, it will be equipped to facilitate producing operations with all drilling pits filled, location leveled and well site reseeded in compliance with current Bureau of Land Management seeding requirements. During dry out time required for the reserve pit it will be fenced to eliminate livestock entry. All facilities will be painted grey: Federal Standard 595-36357.
- Point 11. The proposed location is on a level plain surrounded by a deep drainage gully on all but the southwest side. Vegetation consist of sagebrush, four wing salt brush and various native grasses.

Point 12.

John Alexander 3E Company, Inc. P.O. Box 190 Farmington, NM 87401 Phone: 505-327-4020

Point 13. I hereby certify that I or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in the 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 Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

5-14-77

John Alexander

Should further information be desired, please advise.

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Yours very truly,

John Alexander

JA:st

Attachments