

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

## b. TYPE OF WELL

OIL  
WELL ☐GAS  
WELL ☒

OTHER

SINGLE  
ZONE ☒MULTIPLE  
ZONE ☐

## 2. NAME OF OPERATOR

GETTY OIL COMPANY

## 3. ADDRESS OF OPERATOR

BOX 3360, CASPER, WY 82602

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*

At surface 1180' FSL & 840' FWL Sec. 9 28N-10W  
(SW/4 SW/4)

At proposed prod. zone

Same

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

Approx. 7 miles SE of Bloomfield, NM

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT. 840'

(Also to nearest drlg. unit line, if any)

18. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING, COMPLETED, 1000'

OR APPLIED FOR, ON THIS LEASE, FT.

## 16. NO. OF ACRES IN LEASE

192.25

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

160 192.25

## 19. PROPOSED DEPTH

1900'

## 20. ROTARY OR CABLE TOOLS

Rotary

## 21. ELEVATIONS (Show whether DF, RT, GR, etc.)

5693' GR

## 22. APPROX. DATE WORK WILL START\*

June 27, 1977

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8" OD	24#	175'	150 sks.
7-7/8"	4-1/2" OD	11.6#	1900'	310 sks.

It is our intention to complete this well in the Fruitland formation at around 1700:  
We propose to drill to a TD of 1900' to allow for the running of elec. logs through  
the Pictured Cliffs formation.

RECEIVED

MAY 31 1977

U. S. GEOLOGICAL SURVEY  
SARASOTA, FLA.

SIGNED

TITLE Area Supt

DATE May 24, 1977

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY

\*See Instructions On Reverse Side

NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT

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

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

Operator <b>Getty Oil Company</b>			Lease <b>Mexico-Fed <del>A</del> B</b>		Well No. <b>1A</b>
Unit Letter <b>M</b>	Section <b>9</b>	Township <b>28N</b>	Range <b>10W</b>	County <b>San Juan</b>	
Actual Footage Location of Well: <b>1180</b> feet from the <b>South</b> line and <b>840</b> feet from the <b>West</b> line					
Ground Level Elev. <b>5693</b>	Producing Formation <b>Pictured Cliffs-Fruitland</b>		Pool <b>Aztec</b>	Dedicated Acreage: <b>160 1/2 25</b> Acres	

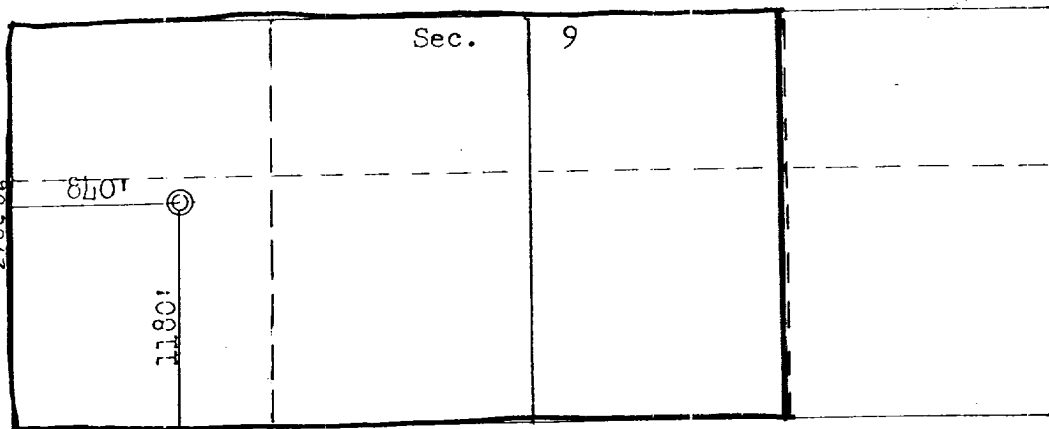
1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If 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 Commission.

*W/2 & W/2 E/2 partial sec 9*



Scale: 1"=1000'

CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name *[Signature]*  
Position **Area Superintendent**

Company  
**Getty Oil Company**

Date  
**May 25, 1977**

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed  
**March 10, 1977**

Registered Professional Engineer and Land Surveyor

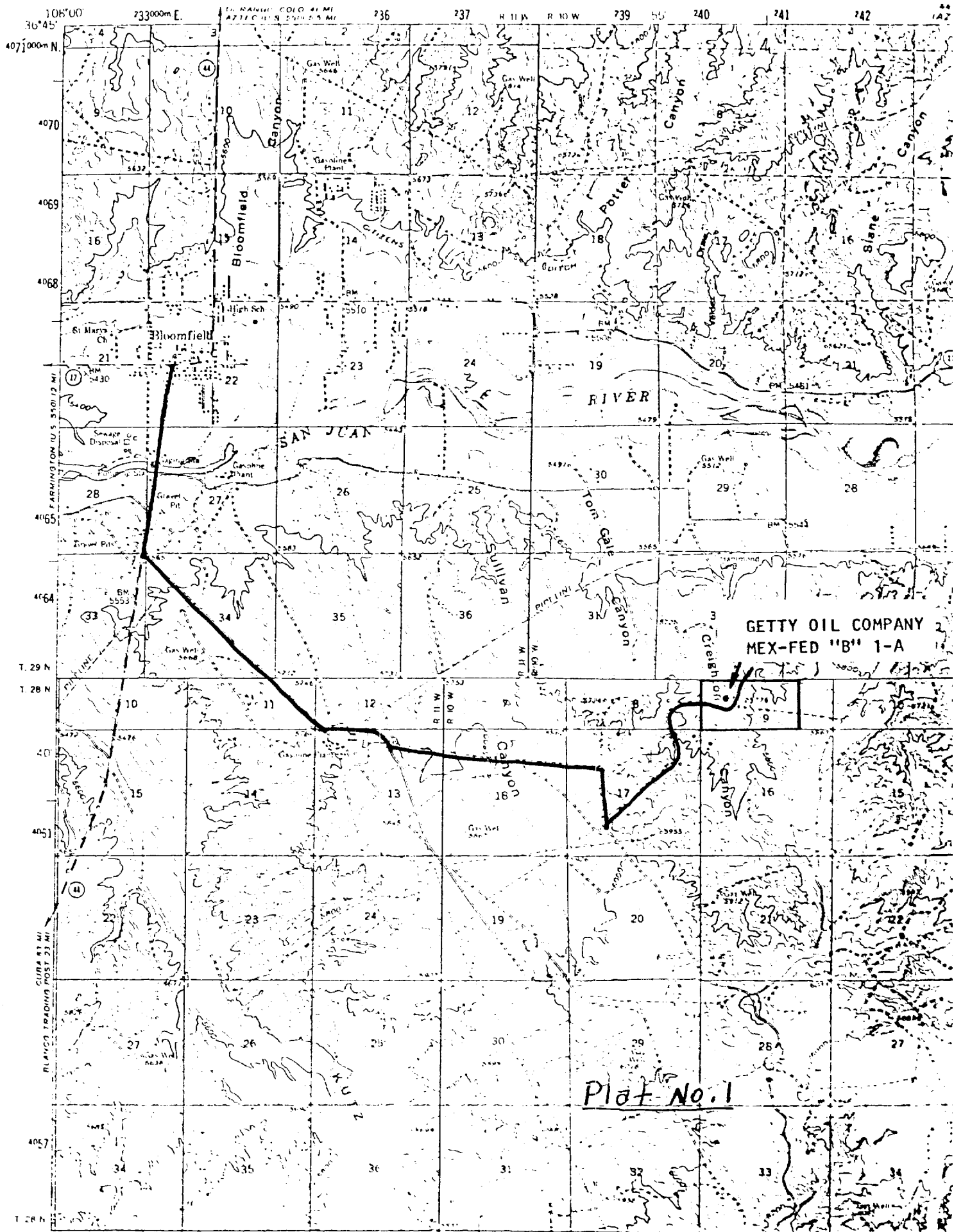
*[Signature]*  
**Fred B. Kern Jr.**

Certificate No.

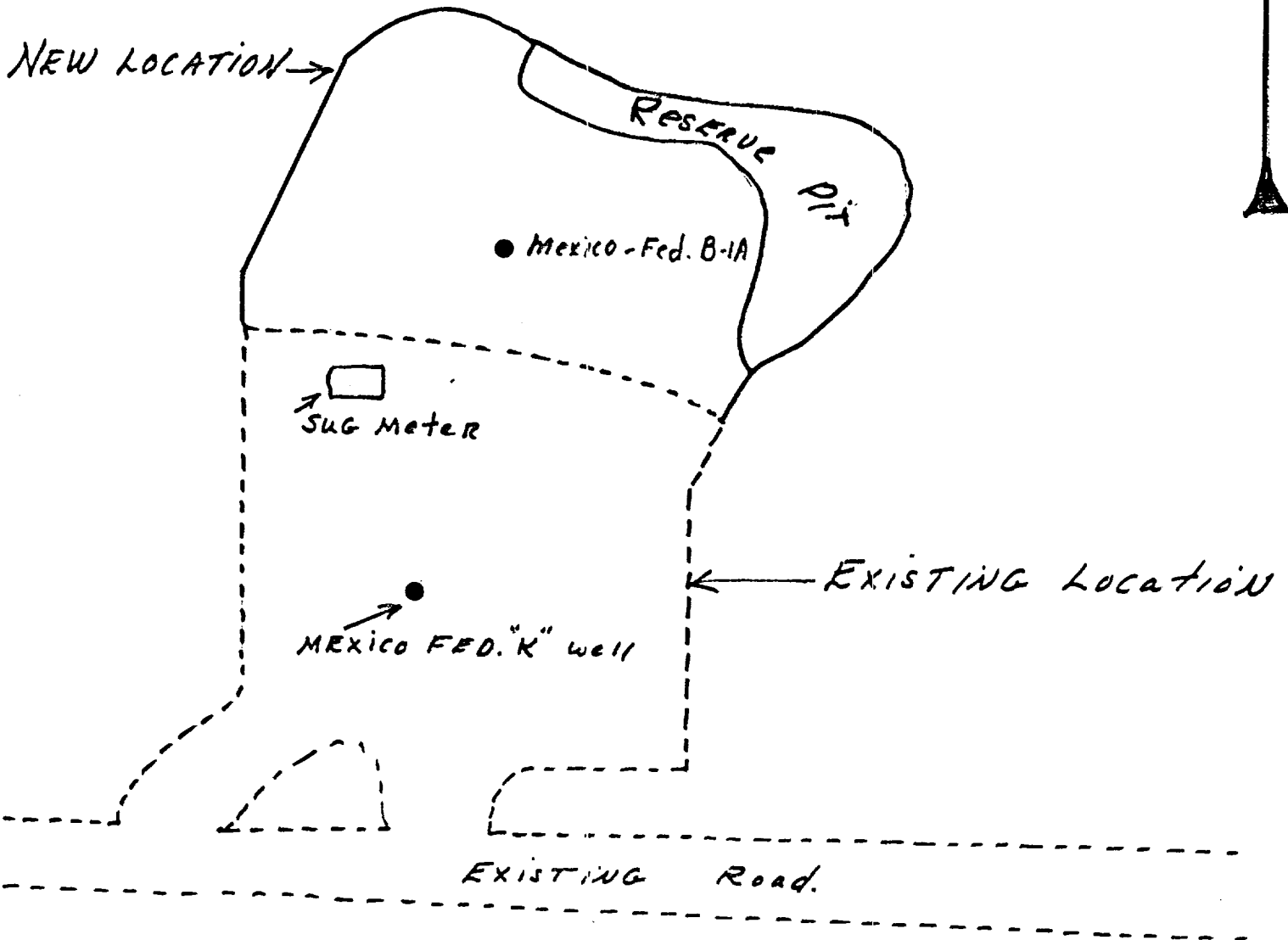
**3950**

43971 SE  
FLORA VISTA  
124 000

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY



MEXICO-FED. "B"-1A  
840' FWL, 1180' FSL  
Section 9, T28N, R10W



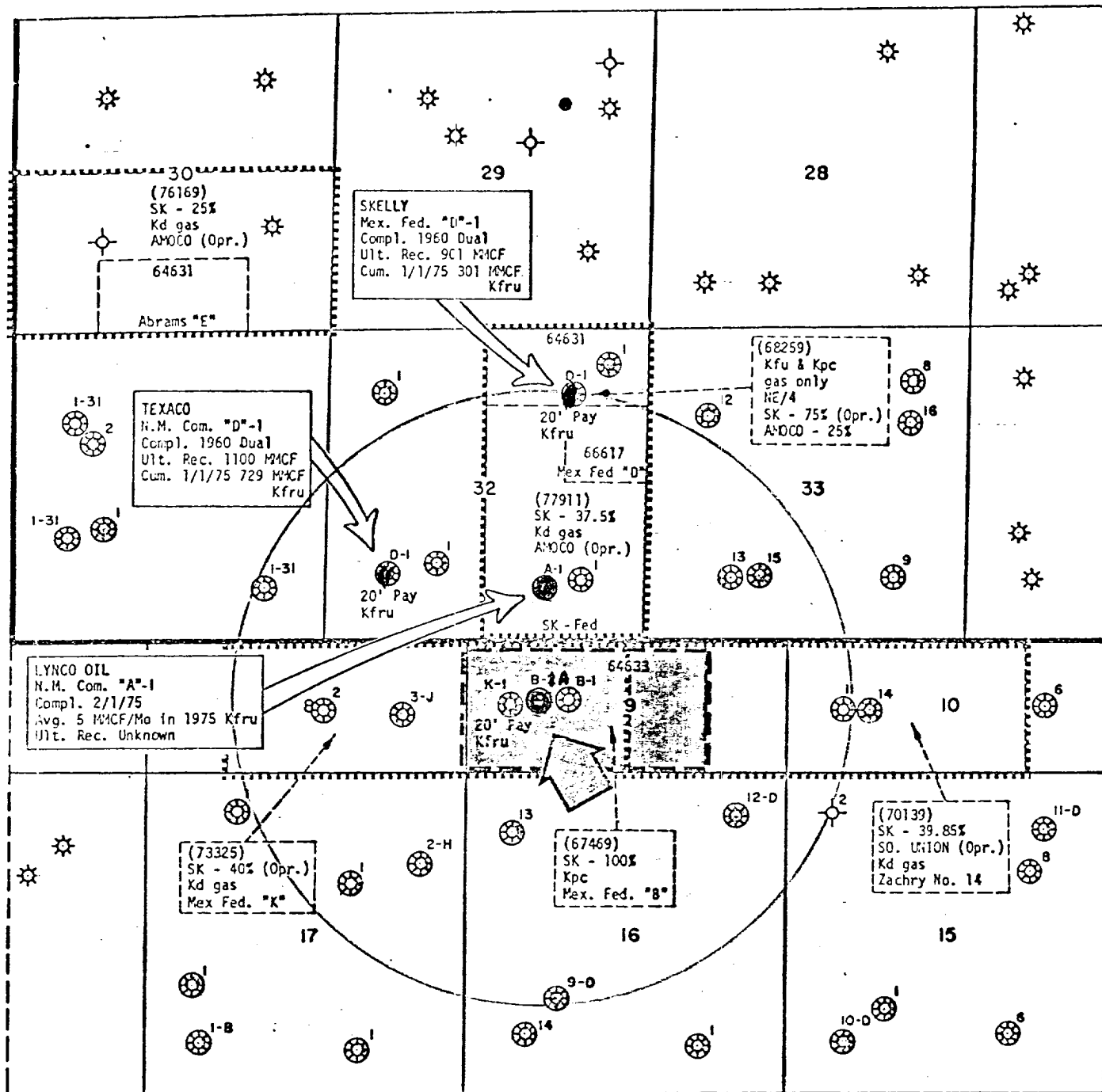
1" = 50'

Plat No. 2

# R10W

T  
29  
N

T  
28  
N



Plot No. 3

- PROP. 1900' Kfru TEST
- FRUITLAND PROD. (Kfru)
- PICTURED CLIFFS PROD. (Kpc)
- DAKOTA PROD. (Kd)
- PICTURED CLIFFS UNIT.  
(SKELLY W.I.)
- DAKOTA UNIT  
(SKELLY W.I.)

SKELLY OIL COMPANY  
DENVER DISTRICT

**AZTEC FRUITLAND FIELD**  
SAN JUAN COUNTY, NEW MEXICO

0 1/2 1  
MILE

SKELLY CASPER MAINTENANCE  
PROGRAM NO. 251-00-11-00  
DATE NOV. 1976

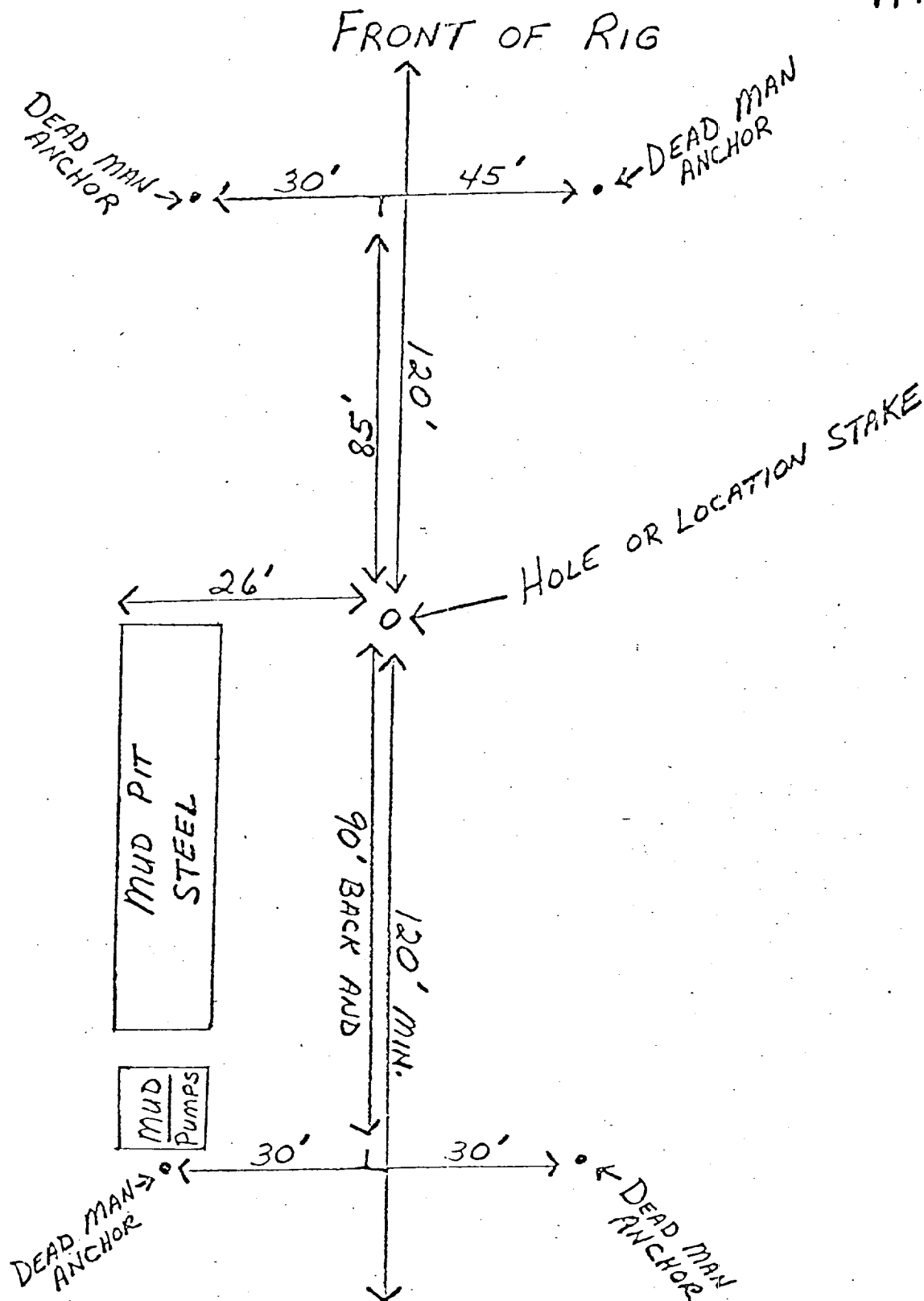
COLEMAN DRILLING CO.

P. O. BOX 1915

FARMINGTON, N. M. 87401

PHONE 505 / 325-6892

RIG #1



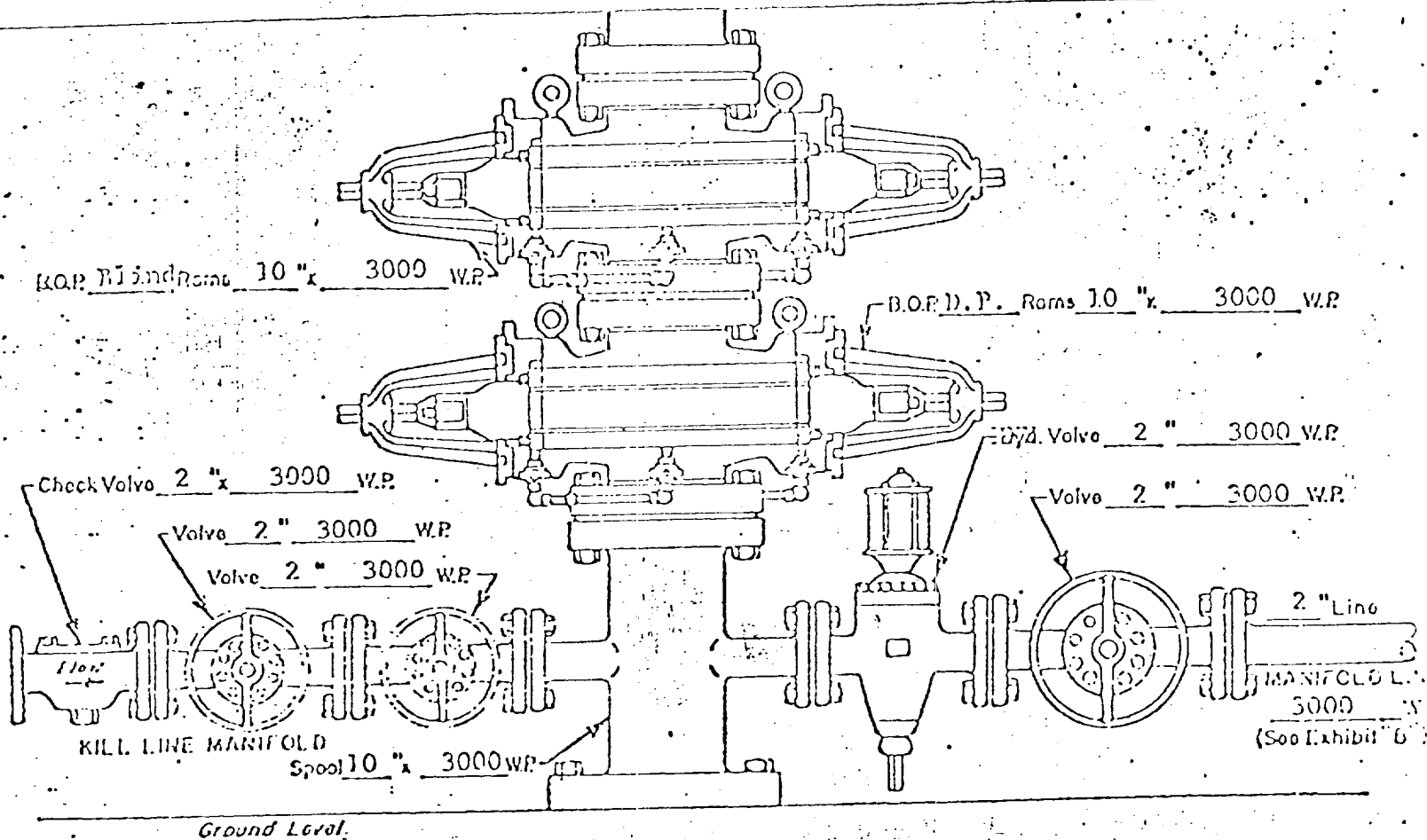
RESERVE PIT 150' X 150' X 5' DEEP

COLEMAN DRILLING CO.  
P. O. BOX 1915  
FARMINGTON, NEW MEXICO 87401

EXHIBIT A

WELL NAME: MEXICO FEDERAL "B"

LOCATION: 1190' FSL AND 790' FWL SECT. 9-28N-10W



WELL HEAD B.O.P.  
3000 W.P.

☐ Manual

☒ Hydraulic

# Getty Oil Company

BOX 3360

CASPER, WYOMING 82602

Re: Ten Point Well Control Plan  
Mexico-Fed UB" 1-A  
Sec. 9 28N-10W  
San Juan County, NM  
Lease No. NM 048569

United States Geological Survey  
Box 959  
Farmington, NM 87401

Gentlemen:

1. Surface formation is sand.
2. Estimated tops of important geological markers.  
Estimated KB elevation 5706:

	<u>Depth</u>	<u>Datum</u>
Fruitland	1680'	+4026'
Picture Cliffs	1846'	+3860'

3. The estimated depth of fresh water zones in the immediate area of the proposed location is from 150-160'. No other water, oil, gas, or other mineral bearing formations are expected to be encountered from 175' to the Fruitland formation.
4. Proposed casing program:  
(175') 8-5/8" OD 24# K 8R - New  
(1900') 4-1/2" OD 11.6# K 8R - New
5. Prior to drilling out guide shoe on 8-5/8" OD, the BOP stack consisting of a Shaffer-10" 3000WP double gate with pipe rams and blind rams. The unit will be tested when installed and operationally tested daily. The blind rams well be tested when drill pipe is out of hole.
6. Mud program

<u>Interval Feet</u>	<u>Mud Wt. #1 gal</u>	<u>Viscosity Sec/qt.</u>	<u>Fluid Loss ml/30 min</u>	<u>Mud Type</u>
0-170'	8.5-8.8	45-60	NC	Gel/Lime
170'-1920'	8.5-8.9	28-30	NC	Gelex
1920-1970'	8.5-8.9	38-40	10 cc	Gel/CMC

7. Auxillary Equipment:
  1. Upper and lower Kelly Cocks will be used.
  2. Floats at bits will be used as permissible.
  3. Continual visual monitoring of mud pits and system well be maintained.
  4. A sub with full opening valve to be stabbed into drill pipe or drill collars.



8. We do not plan to run a DST or core in this well. A Dual Induction Laterolog will be run from base of surface casing to TD. A Borehole Compensated Formation Density Log from 1600' to TD and Borehole Compensated Sonic Log from 1600' to TD.
9. We do not anticipate any abnormal pressures, temperatures or potential hazards during the drilling of this well.
10. Anticipated starting date is June 27, 1977. We estimate that it will take a total of 10 days to drill and complete this well.

# Getty Oil Company

P. O. Box 3360

Casper, Wyoming 82602

## RECEIVED

MAY 31 1977

U. S. GEOLOGICAL SURVEY  
FARMINGTON, N.M.

Re: Mexico-Fed "B" 1-A  
Lease No. NM 048569  
SW SW/4 Section 9, 28N-10W M.M.P.M.  
San Juan County, NM

United States Geological Survey  
Box 959  
Farmington, NM 87401

Gentlemen:

The following is a land development plan submitted as per NTL-6, with an application for permit to drill.

1. Existing roads: Highway #14, south out of Bloomfield, NM  $1\frac{1}{2}$  miles to S. U. G. Kutz plant turn off, turn left off highway, go 2 miles to Kutz plant gate, take plant detour road to the left, stay on main road bearing right  $\frac{1}{2}$  mile, then take left and go  $1\frac{3}{4}$  miles, turn right and go  $\frac{1}{10}$  mile, then turn hard left, go  $\frac{9}{10}$  mile, turn right  $\frac{1}{4}$  mile to location. (See Plat #1)
2. Planned access roads: There will be no new roads constructed, all existing old roads will be used. (See Plat #1 & 2)
3. Location of existing wells: There are (17) producing wells within a one mile radius of the proposed development well.
  1. 2 gas wells in W/2 Sec. 9-28N-10W.
  2. 2 gas wells in E/2 Sec. 8-28N-10W.
  3. 1 gas well in W/2 Sec. 10-28N-10W.
  4. 2 gas wells in NW/4 Sec. 17-28N-10W.
  5. 1 gas well in NW/4, (1) in NE/4 & (1) in SW/4 Sec. 16-28N-10W.
  6. 1 gas well in SE/4 Sec. 31-29N-10W.
  7. 2 gas wells in SW/4 & 2 wells in SE/4 Sec. 32-29N-10W.
  8. 2 gas wells in SW/4 Sec. 33-29N-10W.

There are no TA wells, abandoned wells, disposal wells, drilling wells, SI wells, injection wells and observation wells for other resources within a one mile radius of the proposed well. (See Plat #3)

4. Location of tank batteries, production facilities and production gathering lines:
  - (A) There are no existing tank batteries, production facilities, oil or gas gathering lines, injection lines or disposal lines owned or controlled by lessee/operator within a one mile radius of the proposed location.

- (B) It is anticipated that the production, if any, from the proposed well, will be dry gas and there will not be a need for any type of production facilities at this well.
5. Location and type of water supply: All water for the drilling and completion of this well will be drawn from the San Juan River at a point along Highway 44, approximately 1 mile south of Bloomfield, NM in the NW/4 Sec. 29N-11W. Water will be trucked over the existing roads. (See Plat #1.)
  6. Source of construction materials: Construction material will consist of on site soil.
  7. Method of handling waste disposal: Pits of adequate size will be provided for holding waste materials, water and drilling fluids. All trash on wellsite will be properly buried or if required, hauled to an established sanitary landfill. Adequate fencing or cover will be provided for the exclusion of all animals from the hazardous areas and materials during operations and after rig is moved out. The well site area will be leveled and properly cleaned up when the rig is moved out. In the event of a dry hole, drilling fluids will be allowed to dry out and the pit will be filled. The entire wellsite will be returned to original contour and properly seeded.
  8. Ancillary Facilities: None
  9. Well site layout: (See Plat #2) The pit shown is unlined.
  10. Plans for restoration of the surface: Upon completion of this operation, topography will be reshaped to its original contour and in case of a producing well, level areas will be maintained around the well for normal producing operations. Exposed surfaces will be seeded in compliance with the appropriate Federal Surface Management Agency. Clean-up and rehabilitation will commence upon rig move out. Final back-filling of pits and contouring will be completed when pits are dry. Revegetation and seeding will be completed as per BLM recommendations.
  11. Other information: This proposed location is located in the bottom of Creighton Canyon next to an existing well. The main drainage for the canyon is just to the east of the proposed well pad. The soil is very sandy here and the vegetation is sparse and consists of sagebrush, rabbit brush, yucca, and cheat grass. There are scattered junipers on the opposite side of the canyon and south of the well location. There is evidence of small game and animals in the area. There are no known cultural resources within the area of the proposed location.

12. Lessee's or operator's representative:

Roy J. McWhirter	Office Phone (307) 265-8386
Getty Oil Company	Home Phone (307) 234-5241
Box 3360	
Casper, WY 82602	

Richard P. Hergenreter	Office Phone (505) 325-9682
Farmington, NM	Home Phone (505) 325-2469

13. Certification:

I hereby certify that I, or persons under my supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations prepared herein will be preformed by Getty Oil Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

<u>5-26-77</u>	<u>Roy J. McWhirter</u>	<u>Area Supt.</u>
Date	Name	Title

Archaeological Clearance Survey Report

for

Getty Oil Company

Location

Mexico-Federal B No. 1-A

Prepared by

Pat Zarnowski

Submitted by

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

March 23, 1977

## Introduction

The Agency of Conservation Archaeology of the San Juan County Museum Association and Eastern New Mexico University recently completed an archaeological clearance survey in Creighton Canyon on land that is to be impacted by the scheduled construction of one well by Getty Oil Company of Farmington, New Mexico.

The survey project was initiated at the request of Mr. Dick Hergenreter of Getty Oil Company on March 21, 1977. It was administered by Mr. Hergenreter and by Dr. John 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 Agency of Conservation Archaeology in Farmington, New Mexico on March 22, 1977 under provisions of Federal Antiquities permit No. 77-NM-030 which expires on December 31, 1977. Other representatives in the field included Mr. Hergenreter, Mr. Bob Moore of Bureau of Land Management, and Mr. Don Miller of the United States Geological Survey.

## Survey

The requested archaeological clearance survey involved the one well location described below located on land under the jurisdiction of the Bureau of Land Management. For specific details of location please see the attached map and the Recommendation Section of this report.

The general survey procedure used was to walk the area of proposed construction in a zigzag manner and to visually inspect the ground surface for signs of cultural remains, either of historic or prehistoric origin. Floral, faunal and geological observations were made to briefly describe the environmental situation.

### Mexico-Federal B No. 1-A

**Environment:** This well is to be located in the bottom of Creighton Canyon next to an existing well. The main drainage for the canyon is just to the east of the proposed well pad. The soil is very sandy here and the vegetation is sparse and consists of sagebrush (Artemisia tridentata), rabbit brush (Chrysothamnus nauseosus), yucca (Yucca angustissima), and cheat grass (Bromus tectorum). There are scattered junipers (Juniperus sp.) on the opposite side of the canyon and south of the well location. Evidence of small game and animal is present.

**Cultural resources:** None.

## Recommendations

Because no cultural resources were located during the survey of this area it is recommended that archaeological clearance be granted for this work. It is felt that there will be no adverse impact to our cultural resources as a result of this proposed construction.

Page 2  
March 23, 1977  
Getty Oil Company

<u>Well</u>	<u>Area</u>	<u>Location</u>	<u>Clearance Status</u>
Mexico-Federal B No. 1-A	Pad: 100' x 150'	1,180 feet from the South line 840 feet from the West line in the Southwest $\frac{1}{4}$ of the South- west $\frac{1}{4}$ of Section 9, Township 28 North, Range 10 West, San Juan County, New Mexico. Map source: U. S. G. S. 15 minute Bloomfield quadrangle.	Recommended

