

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

Dietrich Exploration Company

## 3. ADDRESS OF OPERATOR

602 Midland Savings Bldg., 444 17th Street, Denver, Co. 80202

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

At surface

790' FEL and 1700' FNL

At proposed prod. zone

Same

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

20 Miles South of Farmington, N.M.

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)

790'

## 16. NO. OF ACRES IN LEASE

320

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

160

18. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

## 19. PROPOSED DEPTH

1550

## 20. ROTARY OR CABLE TOOLS

Rotary

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

6074 GR

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

10-20-76

## 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	23	90	75 sacks
6 1/4	4 1/2	10.5	1550	100 sacks

Move in rotary tools. Set 8 5/8" casing at 90 feet and cement with 100 sacks. Install and test 6" 900 series blow out preventers. Drill 6 1/4" hole to 1550 feet. Run open hole logs to evaluate Picture Cliff formation. If commercial production is indicated, 4 1/2" casing will be set at 1550 feet and cemented with 100 sacks. If well is non-commercial, same will be plugged and abandoned in accordance with U.S.G.S. specifications.

Gas under this lease is committed to a contract.

RECEIVED

OCT 18 1976

U. S. GEOLOGICAL SURVEY

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.

24.

SIGNED

*William T. Jones*  
William T. Jones

TITLE

Agent

DATE

10-15-76

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

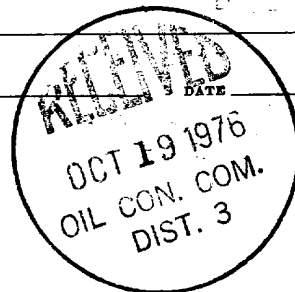
APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

*Ok*

\*See Instructions On Reverse Side



**NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACERAGE DEDICATION PLAT**

All distances must be from the outer boundaries of the Section

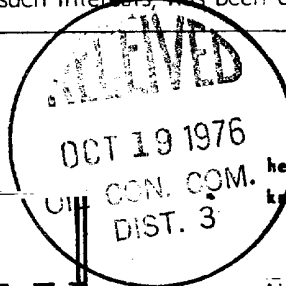
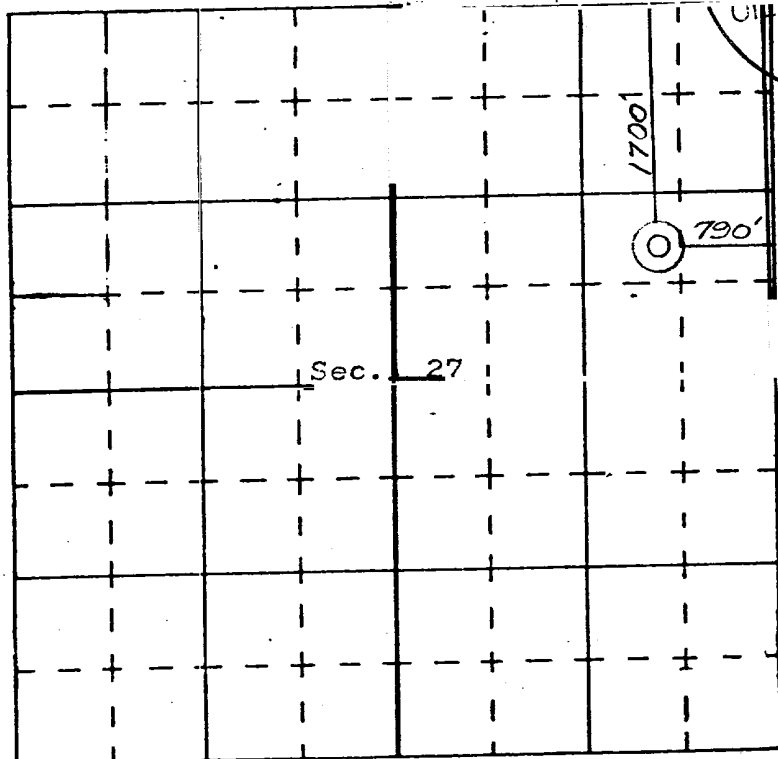
Operator <b>DIETRICH EXPLORATION COMPANY, INC</b>			Lease <b>FEDERAL</b>		Well No. <b>4</b>
Unit Letter <b>H</b>	Section <b>27</b>	Township <b>27 NORTH</b>	Range <b>13 WEST</b>	County <b>SAN JUAN</b>	
Actual Footage Location of Well: <b>1700</b> feet from the <b>NORTH</b> line and <b>790</b> feet from the <b>EAST</b> line					
Ground Level Elev. <b>6074</b>	Producing Formation <b>Picture Cliff</b>	Pool <b>WAW extension</b>	Dedicated Acreage: <b>160</b> ✓ Acres		

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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 consolidated. (Use reverse side of this form if necessary.) .....

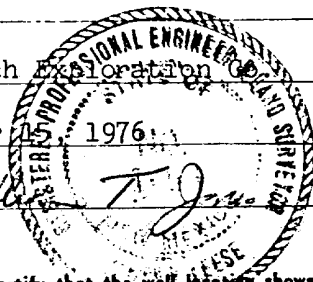
No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non standard unit, eliminating such interests, has been approved by the Commission.



**CERTIFICATION**

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

**William T. Jones**  
Name  
**Agent**  
Position  
**Dietrich Exploration Co.**  
Company  
**October 15, 1976**  
Date

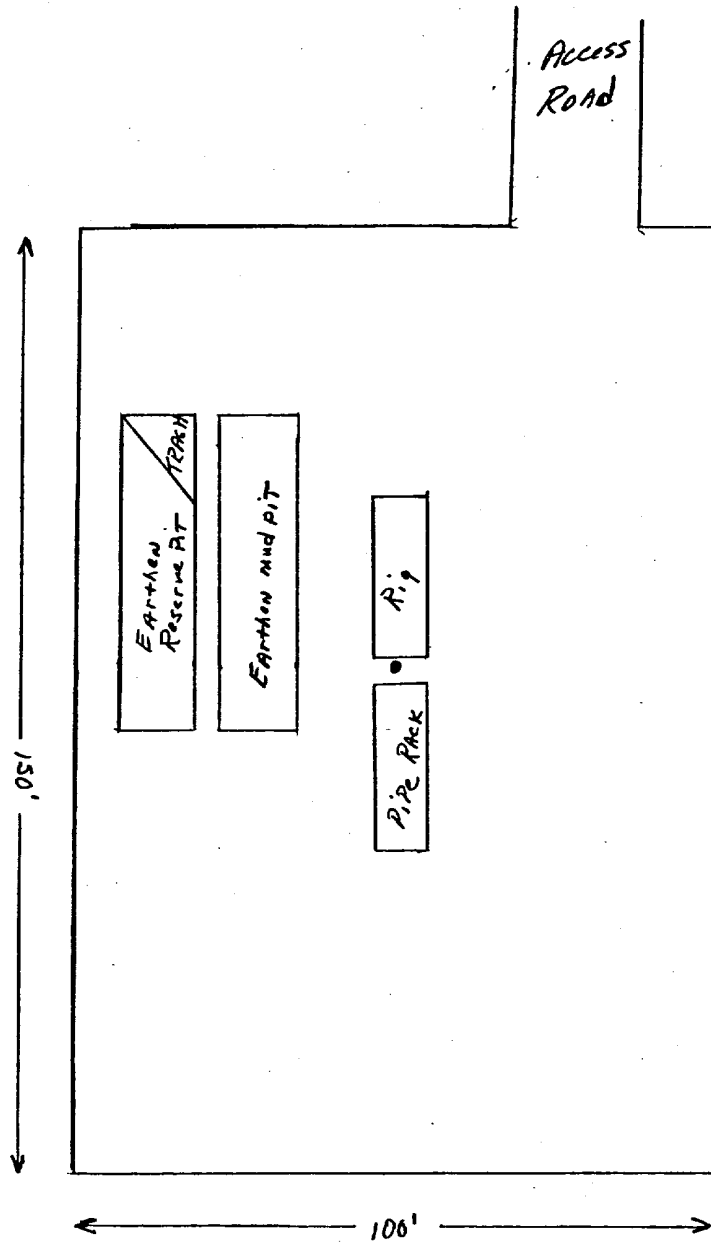


I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

**6 October, 1976**  
Date Surveyed  
**James P. Leese**  
Registered Professional Engineer  
and/or Land Surveyor  
**James P. Leese**  
**1463**  
Certificate No.

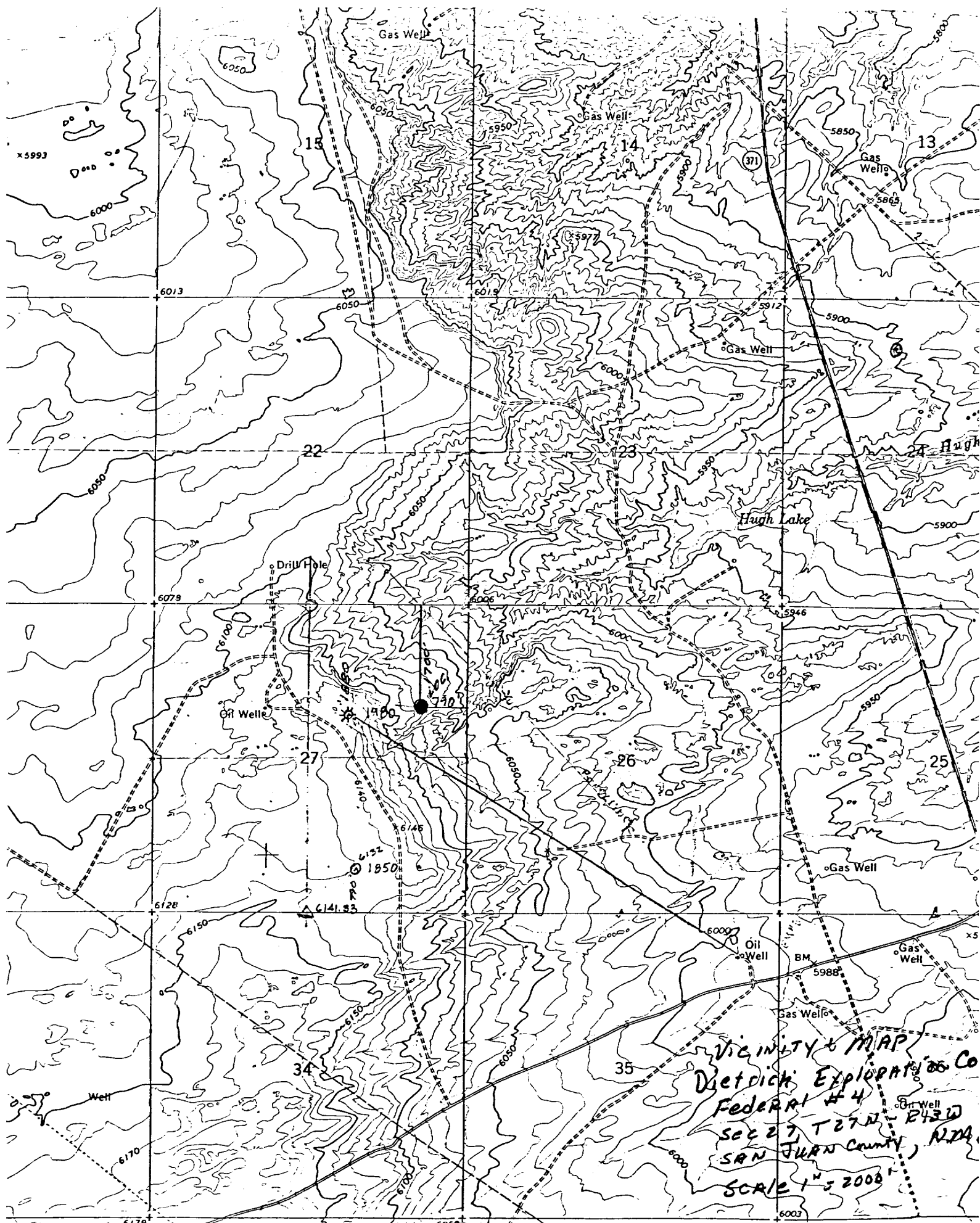
# Well Site PLAT

North



Scale 1" = 30'

Dietrich Exploration Company  
Federal # 4  
790' FEL and 1700' FNL  
Sec 27, T27N, R13W



# 3E COMPANY, INC.

*Engineering • Energy • Exploration*

P. O. Box 190      —:—      505/327-4020

FARMINGTON, NEW MEXICO 87401

October 15, 1976

U.S. Department of Interior  
Geological Survey  
P.O. Box 949  
Farmington, N.M. 87401

Attention: Mr. Phil T. McGrath  
District Engineer

RE: Development Plan for Surface Use  
Dietrich Exploration Co.  
Federal #4  
790' FEL and 1700' FNL  
Sec 27, T27N, R13W  
WAW Picture Cliff  
San Juan County, New Mexico

Gentlemen:

Attached is the "Application for Permit to Drill" (form #9-331C) for the captioned well. Attached to the application are the following reports and plats: Archaeological Report, Surveyor's Plat, drill site plat and vicinity map. Ms. Pat Zarnowski of the Agency of Conservation Archaeology, Mr. Bob Moore of the BLM and Mr. Ray Swanson of the U.S.G.S. have inspected the location.

The development plan for surface use is as follows:

Points 1, 2, 3, 4, 6, and 9. Vicinity map and drill site plat attached.

Point 5. Water for drilling will be trucked from the San Juan River approximately eighteen miles to the North.

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 the pits will be covered.

Point 8. No camps or airstrip.

Point 10. Should the subject well be a commercial producer, it will be equipped to facilitate producing operations, with all drilling pits filled, location leveled with reseeded of the area not used for day to day operations.

In the event the well is a dry hole, all pits will be filled, location leveled and reseeded. During dry out time required for the reserve pit, it will be fenced to eliminate livestock entry. All reseeded will be done between July 1, and September 15, with equipment specified by the BLM. The seed mixture will be that specified for Area III in the Farmington Resource Area.

Point 11. The topography of the area is that of rolling knolls with ridge of sand dunes. No trees are present with vegetation being normal for climatic conditions.

Point 12. William T. Jones  
3E Company, Inc.  
P.O. Box 190  
Farmington, N.M. 87401  
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 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 Dietrich Exploration Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

10/18/76  
Date

William T. Jones  
William T. Jones, Agent

Should further information be required, please advise.

Yours truly,

William T. Jones  
William T. Jones

WTJ:kj

Enclosures

Archaeological Clearance Survey Report  
for  
Dietrich Exploration Company, Inc.

October 13, 1976

Locations

Dietrich Federal No. 4 Unit H  
Tie-in Line to Federal No. 3

Prepared by  
Nancy S. Hewett

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 County Museum Association and Eastern New Mexico University recently completed an archaeological clearance survey on lands west of Gallegos Canyon to be impacted by the proposed construction of one well pad, one access road and two pipeline rights of way by Dietrich Exploration Company of Farmington, New Mexico.

The survey project was initiated at the request of Mr. Bill Jones of Three E Company on October 11, 1976. It was administered by Mr. Jones and Dr. J. Loring Haskell of the Agency of Conservation Archaeology, Portales.

The field work was conducted by Mrs. Nancy Hewett of the Agency of Conservation Archaeology on October 13, 1976, under provisions of Federal Antiquities permit No. 76-NM-023 which expires on March 7, 1977. Representing Dietrich Exploration Company in the field was Mr. J. D. Hicks. Representing the Bureau of Land Management were Mr. Bob Moore and Ms. Angie Markovich. Mr. Ray Swanson represented the U. S. Geological Survey, and Mr. David Kinsey represented Allen Construction Co.

## Survey

The requested archaeological clearance survey involved one well pad, one access road and two pipelines described below and located on lands under the jurisdiction of the Bureau of Land Management. For specific details of location, please see the attached topographic maps and the recommendations section of this report.

The general survey procedure employed was to walk the area of the proposed construction in a zig zag manner. Visual inspection was made of the ground surface for evidence of any artifactual remains of historic or prehistoric origin. Floral, faunal and geological observations were made to briefly describe the environmental situation.

### Federal No. 4

Environment: The pipeline and access road will be built across rolling terrain and proceed northeast to the well pad, located on fairly level terrain. Drainage by sheet wash and shallow erosional gullies is to the northeast. The principal vegetation consists of various grasses, Mormon tea (Ephedra viridis), narrow leaf yucca (Yucca angustissima), prickly pear cactus (Opuntia sp.) and sparse snakeweed. The soil is generally sandy to sandy loam. There is grazing and small game in the area.

Cultural Resources: No artifacts were observed.

### Federal No. 3

Environment: The pipeline connecting the existing well (Federal No. 3) to the lateral will cross terrain very similar to that described above. The vegetation is the same except for greater amounts of snakeweed (Gutierrezia sarothrae). An alternate route of the pipeline is being considered and this area was also surveyed.



Cultural Resources: No artifacts were noted.

Recommendations

Due to the lack of cultural resources at all locations, these areas are recommended for immediate archaeological clearance.

<u>Well</u>	<u>Area Surveyed</u>	<u>Location</u>	<u>Clearance Status</u>
Fed. No. 4	(pad) 200' x 200' (road) 800' x 20' (line) 800' x 50'	1700' F/NL 790' F/EL Sec. 27 T27N R13W NMPM San Juan County, New Mexico. Map Source: 7.5' USGS Hugh Lake Quad.	Recommended

