



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

5-28

BRUCE KING
GOVERNOR
LARRY KEHOE
SECRETARY

May 19, 1980

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-2434

Tenneco Oil
720 South Colorado Blvd.
Denver, Colorado

Attention: Mr. J. M. Lacey

Administrative Order NSL-1199

Gentlemen:

Reference is made to your application for approval of a non-standard location for your Schwerdtfeger Well No. 1A to be located 340 feet from the North line and 1120 feet from the West line of Section 21, Township 27 North, Range 8 West, NMPM, Basin-Dakota Pool, San Juan County, New Mexico.

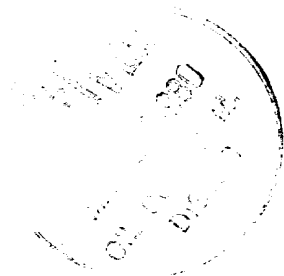
By authority granted me under the provisions of Rule 3 of Order No. R-1670, the above-described unorthodox location is hereby approved.

Sincerely,

JOE D. RAMEY,
Director

JDR/RLS/dr

cc: Oil Conservation Division - Aztec
Oil & Gas Engineering Committee - Hobbs
U. S. Geological Survey - Farmington



OIL CONSERVATION COMMISSION
Chlorine DISTRICT

OIL CONSERVATION COMMISSION
BOX 2088
SANTA FE, NEW MEXICO

DATE May 12, 1980

RE: Proposed MC _____
Proposed DHC _____
Proposed NSL x _____
Proposed SWD _____
Proposed WFX _____
Proposed PMX _____

Gentlemen:

I have examined the application dated May 12, 1980
for the Sommer Oil Co. Schenck Herco #1A D-21-27N-SW
Operator Lease and Well No. Unit, S-T-R

and my recommendations are as follows:

Aggravate

Yours very truly,

Frank S. Long



May 7, 1980

New Mexico Oil Conservation Division
P.O. Box 2088
Santa Fe, New Mexico 87501

Attention: Joe D. Ramey

New Mexico Oil Conservation Division
1000 Rio Brazos Road
Aztec, New Mexico 87401

Attention: F. T. Chavez

Re: Application for Non-Standard Location
Tenneco Schwerdtfeger 1A
Proposed Dakota Well
San Juan County, New Mexico

Gentlemen:

Enclosed in duplicate (to each office) is a revised plat and an archeological report for the above captioned well. Please note that the plat clearly indicates the location of the archeological site and the surrounding topographical features.

With respect to rule 104-F, we respectfully request your approval of an exemption to the standard well location requirements.

Very truly yours,

TENNECO OIL COMPANY

A handwritten signature in dark ink, appearing to read "J. M. Lacey", written in a cursive style.

J. M. Lacey
Division Production Manager

EMJ:efl

Enclosures



All distances must be from the outer boundaries of the Section

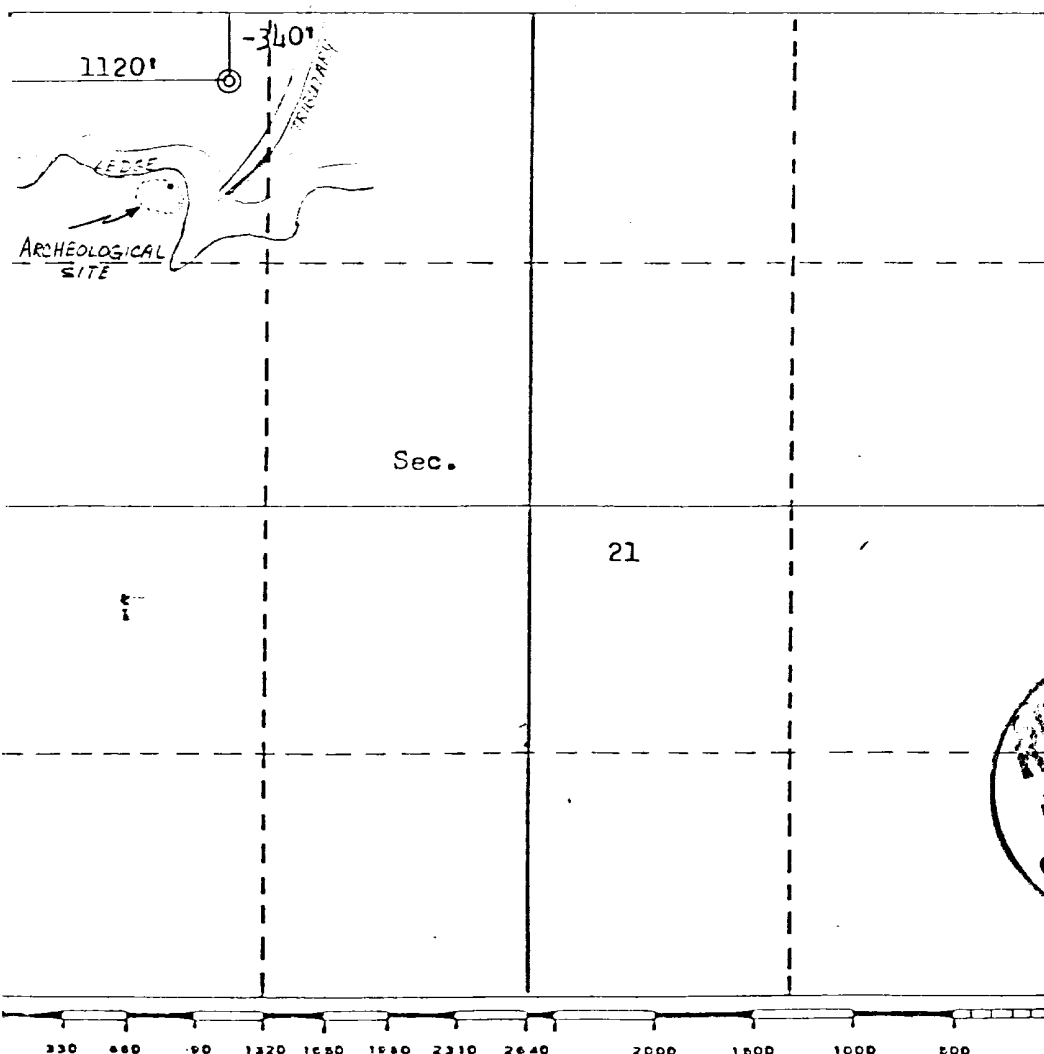
| | | | | | |
|---|--|------------------------|-------------------------------|---------------------------|---------------------------------|
| Operator TENNECO OIL COMPANY | | | Lease SCHWERDIFEGER | | Well No. 1A |
| Unit Letter D | Section 21 | Township 27N | Range 8W | County San Juan | |
| Actual Footage Location of Well: 340 feet from the North line and 1120 feet from the West line | | | | | |
| Ground Level Elev. 6066 | Producing Formation Mesa Verde | | Pool | | Dedicated Acreage: 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 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.



CERTIFICATION

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

Name _____

Position _____

Company _____

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 are true and correct to the best of my knowledge and belief.

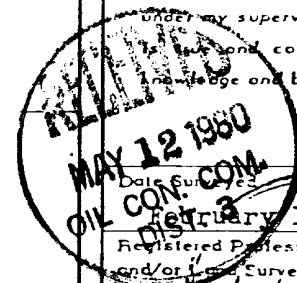
Date Surveyed _____

February 1, 1980

Registered Professional Engineer and/or Land Surveyor

Fred B. Kerr, Jr.

Certificate No. **3950** **KERR, JR.**



All distances must be from the outer boundaries of the Section

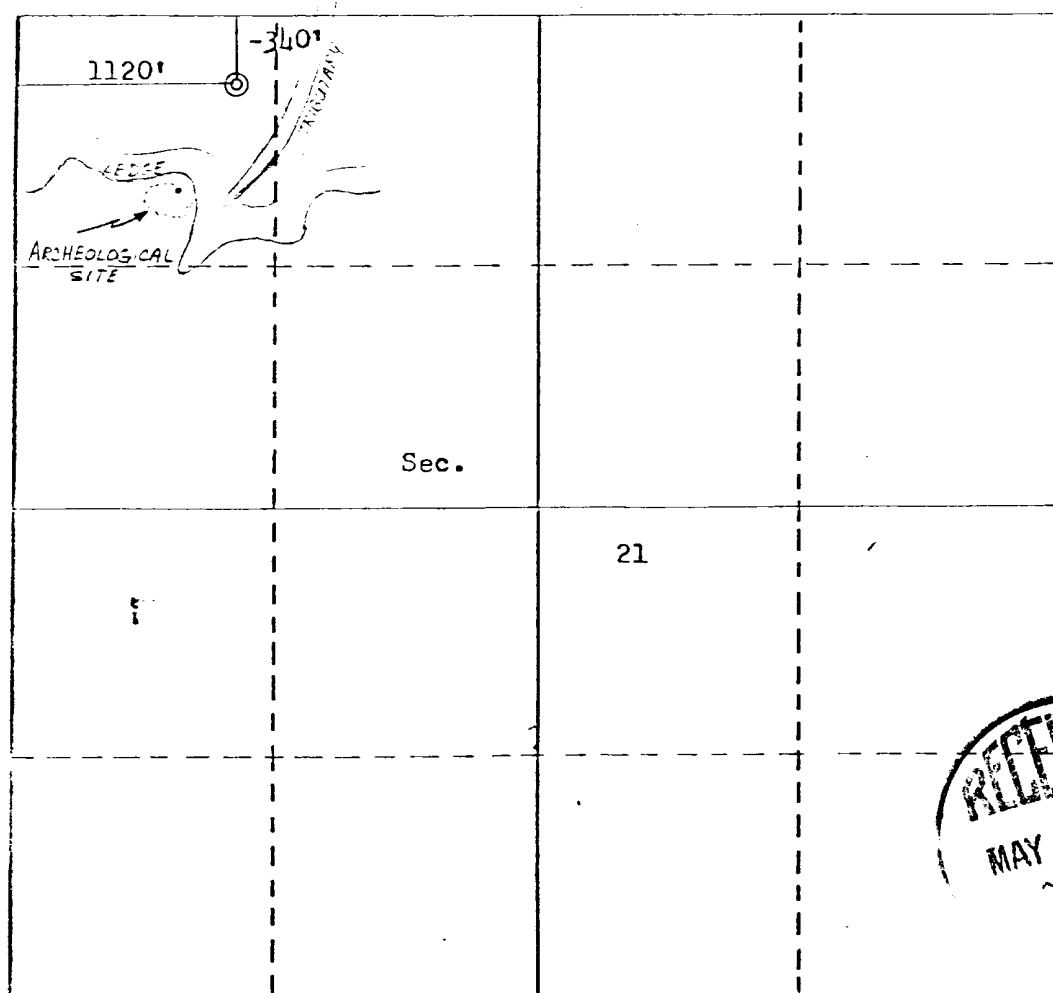
| | | | | | |
|---|--|------------------------|------------------------------|---------------------------|---------------------------------|
| Operator TENNECO OIL COMPANY | | | Lease SCHWERTFEGER | | Well No. 1A |
| Unit Letter D | Section 21 | Township 27N | Range 8W | County San Juan | |
| Actual Footage Location of Well: 340 feet from the North line and 1120 feet from the West line | | | | | |
| Ground Level Elev. 6066 | Producing Formation Mesa Verde | | Pool | | Dedicated Acreage: 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.



CERTIFICATION

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

Name

Position

Company

Date

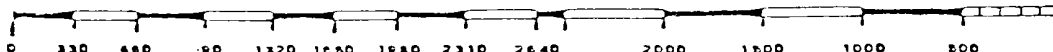
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.



Surveyed
February 1, 1980
Registered Professional Engineer
and/or Land Surveyor

Fred B. Kerr, Jr.
Fred B. Kerr, Jr.

Certificate No. B. KERR, JR.
3950



An Archaeological Survey Report for
19 Gas Well Locations and Their Access Roads
in San Juan County, New Mexico

for

Tenneco Oil Company

Locations

| | |
|-------------------------|-----------------|
| Delhi-Taylor 5-E | Tapp 3 |
| Delhi-Taylor 6-E | Storey "D" 2 |
| Delhi-Taylor P.U.D. 1-E | Vandewart 2 |
| Delhi-Taylor P.U.D. 1-E | Jones 4 |
| Florance 117 | Price 2 |
| Johnston "B" 2 | Vandewart 1 |
| Warren Com 1 | Hughes 5 |
| Florance "C" 3-E | Hughes 6 |
| <u>Schwerdtfeger 1A</u> | Kernaghon "A" 1 |
| Tapp 2 | |

by
Penelope Whitten
Assistant Archaeologist

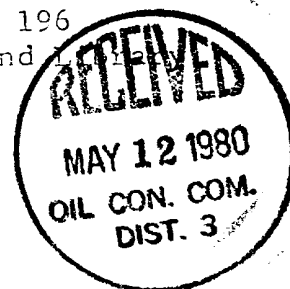
Submitted by
Mende F. Kemmer, Ph.D.
Principal Investigator

NOTE:
SURVEY REPORTS
CAN BE FOUND IN
THE TAPP #2 WELL
FILE.

DIVISION OF CONSERVATION ARCHAEOLOGY

Contributions to Anthropology Series, No. 196
San Juan County Archaeological Research Center and

August 27, 1979



Abstract

On August 8,9, and 21, 1979 the Division of Conservation Archaeology of the San Juan County Archaeological Research Center and Library conducted an archaeological clearance survey of 19 gas well locations and 11 associated access roads for Tenneco Oil Company.

All areas surveyed are administered by the Bureau of Land Management. A possible forked-stick hogan and associated cultural debris (DCA 79-88) was found at the Schwerdtfeger 1 location. Owing to the topographic setting the well cannot be moved to avoid impacting this site. The Division of Conservation Archaeology recommends that the site be tested for evaluative purposes before a decision regarding archaeological clearance is made. A site of ambiguous cultural affiliation previously recorded by the Navajo Tribe as CRMP G-32-16 (DCA 79-87) was located to the north of the Delhi-Taylor P.U.D. 1-E well pad. The southern limits of the site were flagged and the Division of Conservation Archaeology recommends archaeological clearance for this location with the stipulation that pad construction be confined south of the flagged area. A brush windbreak and associated artifacts (DCA 79-90) were situated to the north of Price 2. The site is off the pad area and the Division of Conservation Archaeology recommends archaeological clearance for this location with the stipulation that the site be avoided. A structure, possibly a forked-stick hogan, (DCA 79-89), was found in the northwest corner of Tapp 3. The Division of Conservation Archaeology recommends archaeological clearance for this location with the stipulation that the area around the hogan be fenced.

Various ephemeral cultural manifestations were found in and around Warren Com 1, Florence "C" 8-E, Vandewart 1, and Kernagham "A" 1. Because these manifestation lack further research potential, The Division of Conservation Archaeology recommends archaeological clearance for these locations. The remainder of the locations contained no cultural resources within the direct or indirect impact zones. Archaeological clearance has therefore been recommended for these locations.

Introduction

On August 7, 1979, Nancy Hewett, Supervisory Archaeologist and Penelope Whitten, Assistant Archaeologist, of the Division of Conservation Archaeology of the San Juan County Archaeological Research Center and Library surveyed nine well locations and five associated access roads for Tenneco Oil Company, Denver, Colorado. On August 8, 1979 the author surveyed an additional ten well locations and six associated access roads. However, Penelope Whitten felt that the lighting was insufficient to allow for adequate inspection of the last well location and access road visited on this date and requested that she be allowed to examine it again. This was done on August 21st, with Jim Hill present.

The survey was requested by Mr. Don Traywick of Tenneco Oil Company on July 31, 1979. Mr. Traywick administered the project for Tenneco Oil Company and Dr. Meade F. Kemrer, Principal Investigator, administered the project for the Division of Conservation Archaeology. The survey was conducted in San Juan County, New Mexico on lands under the jurisdiction of the Bureau of Land Management.

Legislation enacted by the Congress of the United States requires compliance with laws designed to protect archaeological resources. Laws such as the National Environmental Policy Act of 1969 (PL-852) and Executive Order No. 11593 entitled "Protection and Enhancement of the Cultural Environment" prevent enterprises which might result in the destruction or alteration of cultural resources. Federal and State governments and the professional scientific community have come to realize that the material remains of a prior culture are a limited, non-renewable part of the environment. As such, the State of New Mexico has enacted legislation regulating archaeological resources. The Cultural Properties Act is analogous in content to the National Historic Preservation Act of 1966 (PL 89-665), which provides for preservation of significant archaeological sites.

The Division of Conservation Archaeology conducted the survey under the provisions of Federal Antiquities Act Permit No. 78-NM-107. On August 7, 1979 Mr. Don Traywick of Tenneco Oil Company, Mr. Jim Hill of Allen Construction Company, Mr. Lee Freeman of the U.S.G.S. and Mr. Bob Marler of the Bureau of Land Management were present in the field. On August 8, 1979 Mr. Russell Pigors replaced Mr. Bob Marler as the Bureau of Land Management representative, and Messrs. Traywick, Freeman and Hill were present for the inspection.

The dump probably resulted from activities associated with construction and use of the established well pad, and consequently has little research potential.

One Navajo utility sherd and a sparse scatter of fire cracked rock were found off the northern edge of the location. No locus of cultural activity was observed and these isolated artifacts offer little in terms of research potential.

Recommendations: Archaeological clearance is recommended.

Schwerdtfeger 1A

Legal Description: 960' F/NL, 840' F/WL, Section 21, T27N, R8W, N.M.P.M., San Juan County, New Mexico.

Map Source: USGS 15' Gould Pass, New Mexico Quadrangle.

Area Surveyed: 300' X 300' (pad), 30' X 900' (access road), 2.6859 acres.

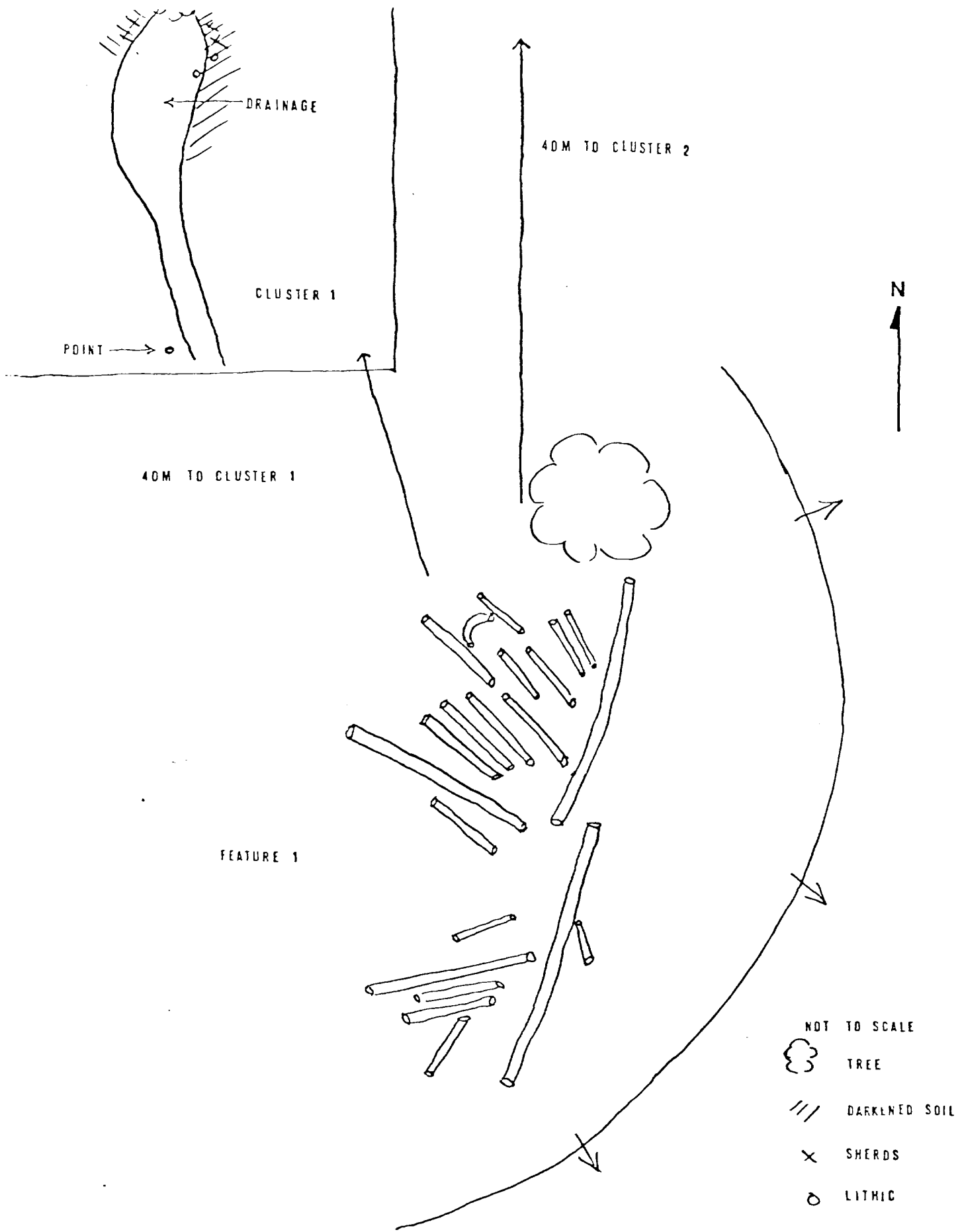
Description: Schwerdtfeger 1 is situated on a narrow east-west running ledge halfway up a sandstone mesa overlooking a small tributary of Largo Canyon. Exposure is to the north. Sandy loam colluvial fill and bedrock detritus cover the ledge. The terrain is broken with few level areas. Drainage is to the northeast.

The survey area is located in pinyon -juniper woodlands. Associated plants include Mormon tea, snakeweed, rabbit brush, prickly pear, mustard, prickly gilia, Indian rice grass, gallets, alkalai sacaton, muhley grass, prairie clover, cliffender bush (*Fendlera rupicola*), bitterbrush and narrow leaf yucca. Evidence of deer was observed.

Burned out stumps occur in the area and some trees appear to have been struck by lightning.

The access road leaves the southwest corner of an established well location and proceeds westward across steep slopes of 30° - 40° to the proposed pad.

Cultural Resources: DCA 79-88 consists of the remains of what appears to be a forked-stick hogan (feature 1) and two blackened areas with associated artifacts. The site is located in a small



DCA 79 88

depression between the mesa and the talus slope and is well hidden. No additional cultural material was found on the high points surrounding the site.

The hogan is situated in a relatively flat area on the south side of a juniper tree. The weathered juniper poles, which cover an area 2 meters east-west by 3 meters north-south have fallen inward. Two large poles, oriented north-south form the eastern edge of the structural remains. The hogan lies 30 meters (ca. 100') southwest of the well stake. No artifacts were found in association with this feature.

On a slight slope 40 meters (ca. 130') northwest of the hogan and 25 (ca. 80') northwest of the stake a 1 X 2.2m concentration of darkened soil was found (cluster 1). A shallow sandy drainage passes through this concentration. About 20-15 sherds, probably all to the same Dineta Utility jar, are located on either side of the drainage and two tertiary flakes, one of petrified wood and one of obsidian were noted. Roughly 6 meters (ca. 20') south of this cluster a tiny point of white chert was found. Approximately 9 meters (ca. 30') to the east of this cluster is a second area of darkened soil (cluster 2). The stain measures roughly 2½ meters north-south and dribbles downslope approximately 3 meters to the east. Associated artifacts consist of a number of small sherds, probably Dineta Utility, and a banded chert flake, bifacially retouched on one side.

Small burned pieces of sandstone were found in both areas of darkened soil.

Resource Significance: The fact that the structural remains appear to represent a fork-stick hogan argues for an assignment of this site to the early period of Navajo use of the Largo area. The presence of Dineta Utility and the absence of any painted ceramic ware further supports this time placement as does the secluded setting of the site. This is a poorly documented period of Navajo history and it is therefore important that any archaeological sites thought to relate to that period be thoroughly evaluated in terms of their information potential. One phase of this evaluative procedure would involve the collection of dendrochronological samples while a second phase would focus on the accumulation of additional data regarding house construction and associated features and artifacts through testing, photographing and careful mapping.

Recommendations: Since the topographic setting of Schwerdtfeger 1 is such that the pad location cannot be moved to avoid impacting

DCA 79-88 it is recommended that the site be tested, mapped and photographed and that dendrochronological samples be taken in order to evaluate its future research potential and to assess the necessity of further mitigation procedures.

Tapp 2

Legal Description: 1710' F/SL, 975' F/WL, Section 16, T28N, R8W, N.M.P.M., San Juan County, New Mexico.

Map Source: USGS 15', Gould Pass, New Mexico Quadrangle.

Area Surveyed: 300' X 300' (pad), 30' X 800' (access road), 2.6170 acres.

Description: Tapp 2 and the associated access road are located on outcropping bedrock and tan loamy sand colluvial deposits on the first terrace of a sandstone mesa overlooking Jesus Canyon and Carrizo Creek. The main body of the mesa rises to the north. The terrain is dissected by channels running south to the major drainages about a quarter of a mile away. Quantities of petrified wood litter the surface.

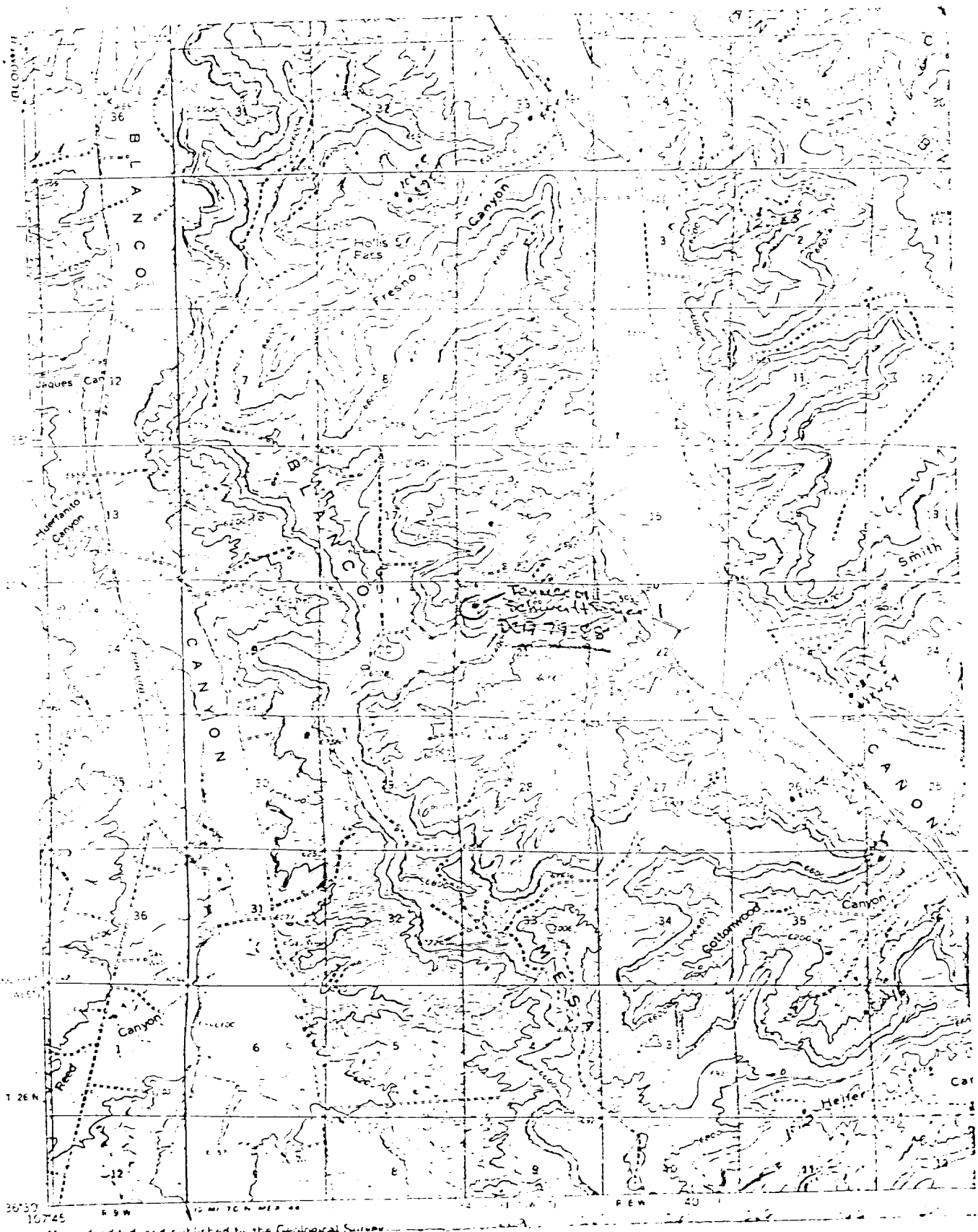
The vegetative cover consists of juniper, pinyon, greasewood, rabbit brush, sage, prickly pear, narrow leaf yucca, cholla (Cylindropuntia sp.), bitterbrush, serviceberry, (Amelanchier utahensis), squawbush (Rhus trilobata), some Atriplex sp. and various small composites. Grasses include Indian rice grass, galleta and sporobolus.

Pieces of axe cut wood and burned stumps provide evidence of timbering activity. An animal trail crosses the location and there are vehicular tracks on the south side of the proposed well pad.

The access road enters the pad location from the northwest.

Cultural Resources: A small charcoal stain was found to the southwest of the access road. It is likely that this stain is a consequence of lumbering activity and has no cultural significance.

Recommendations: Archaeological clearance is recommended.



36° 30' 10745
Mapped, edited, and published by the Geological Survey

C-11 P-05