



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

GARREY CARRUTHERS
GOVERNOR

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SANTA FE, NEW MEXICO 87504
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December 14, 1990

Bannon Energy, Inc.
c/o A.R. Kendrick
Box 516
Aztec, NM 87410-0516

*RE: Goff 30 Well No. 5R. 2055' FNL - 824' FWL
(Unit E), 30-T24N-R6W, Escrito Gallup Associated
Pool, Rio Arriba County, New Mexico.*

Dear Ms. Kendrick:

Please supplement the filing for the subject unorthodox oil well location with a copy of the archeological report for the area preventing Bannon from locating this well at a standard location in Lot 2 of Section 30.

It would also appear that the standard location window in Lot 1 of this Section is drillable. Please explain why this well could not be located in that window.

Also, what is the present status and what will become of the Goff 30 Well No. 5 located 2440' FNL - 330' FWL in said Section 30 completed in the Escrito Gallup Associated Pool?

Sincerely,

Michael E. Stogner
Petroleum Engineer

MES/ag

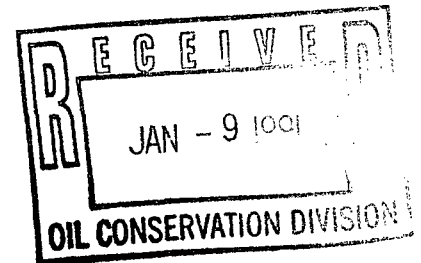
cc: Oil Conservation Division - Aztec
US Bureau of Land Management - Farmington

A. R. KENDRICK

P.O. BOX 516 • AZTEC, NEW MEXICO 87410 • (505) 334-2555

January 7, 1991

Mr. Michael Stogner
Oil Conservation Division
Box 2088
Santa Fe, New Mexico 87504-2088



Re: Application for Non-Standard Location
Bannon Energy, Inc.
Goff 30 #5R, 2055' FNL 824' FWL
E-30-T24N-R6W
Escrito Gallup Oil Pool
Rio Arriba County

(30-039-25046)

Dear Mr. Stogner:

Enclosed at your request is a copy of the archaeological report for the area of the subject well. Please note highlighting on pages 3, 4, 7 and 8.

Bannon Energy prefers to drill at the staked location rather than in the northwest quarter of the northwest quarter of section 30. The drilling a replacement for an old well completed in 1961 may show some geologic advantage even with the new hole more than 600 feet from the original. However, I do not agree with that opinion.

The costs of restaking and new archaeological work could jeopardize the redrilling of this tract.

All parties who may have legitimate objections to this location have filed waivers of objection to the application with your office.

Bannon Energy does not want this matter set for hearing.

If further information is needed, please contact me.

Yours very truly,

A handwritten signature in cursive script that reads "A. R. Kendrick".

A. R. Kendrick

Enclosures
xc: Bannon Energy, Inc.

STANDARD LOCATION WINDOWS: NW-NW, SW-NW

UNACCEPTABLE TOPOGRAPHICLY

ARCHEOLOGICAL SITE

UNACCEPTABLE ARCHEOLOGICAL &
TOPOGRAPHICALLY

PROPOSED NEW LOCATION

EXISTING MESA 25-2 LOCATION

T24N
R7W

T24N-
R6W

R
7
W

R
6
W

Goff 30-5R
2055' FNL, 824' FWL
Sec. 30, T24N-R6W
Rio Arriba Co., NM

A CULTURAL RESOURCES INVENTORY OF
THE GOFF 30-5R WELL PAD
AND PIPELINE/ACCESS
ADJACENT TO JOHNSON CANYON NEAR LYBROOK,
RIO ARriba COUNTY, NEW MEXICO

GOFF 30-5R
2055' FNL, 824' FWL, SECTION 30, T.24N, R.6W

CONDUCTED FOR:
BANNON ENERGY, INC.

PREPARED BY:
MEADE F. KEMRER

SUBMITTED BY:
LARRY L. BAKER



DAGGETT & CHENAULT, INC

OIL & GAS PROPERTY MANAGEMENT
3539 E. 30th STREET, SUITE 7B
FARMINGTON, N.M. 87401



REPORT NO. 90-DCI-103
BUREAU OF LAND MANAGEMENT CULTURAL USE PERMIT NO. 91-2920-90-B

NOVEMBER 13, 1990

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INTRODUCTION

On September 24, 25, and 26, 1990, an archaeological survey of the Goff 30-5R well location and pipeline/access was conducted by personnel of Daggett and Chenault, Inc. Archaeological Services Department. The project area for the proposed Goff 30-5R well pad and pipeline/access is located on lands within Rio Arriba County, New Mexico administered by the Farmington Resource Area of the Bureau of Land Management's Albuquerque District. A Class III cultural resources inventory of the proposed Goff 30-5R well pad and pipeline/access was completed under the authority of Bureau of Land Management Cultural Resource Use Permit No. 91-2920-90-B.

Greater awareness and public concern for the preservation of our cultural heritage has prompted legislation by federal, state, and tribal governments to protect historical, ethnographic, and archaeological cultural resources. Cultural resource management investigations are mandated and authorized by federal legislation and stipulations. These regulatory acts include: 1) the Federal Antiquities Act of 1906 (P.L. 59-209); 2) the National Historic Preservation Act of 1966 (P.L. 89-665); 3) the National Environmental Protection Act of 1969 (P.L., 91-190); 4) Executive Order 11593: "Protection and Enhancement of the Cultural Environment", 1971 (36 F.R. 8921); 5) the Archaeological Resources Protection Act of 1979 (P.L. 96-95); and 6) the American Indian Religious Freedom Act of 1979 (P.L. 95-341). Work conducted in conjunction with this project is intended to comply with the statutes contained in these laws.

The project was undertaken at the request of Mr. Bob Larson, who was acting as permit agent for Bannon Energy, Inc. The project was administered by Larry L. Baker, Director of Archaeological Services, Daggett and Chenault, Inc. The survey was conducted by Meade F. Kemrer, Staff Archaeologist. The project area was staked prior to the time of the survey and the archaeologist was accompanied by Bob Larson on September 24 and land surveyors from Daggett Surveying, Inc., on September 24 and 25, 1990.

The Goff 30-5R project is located approximately 3.5 miles due north of Lybrook, New Mexico. The total area inspected for the Goff 30-5R well location and pipeline/access was 10.16 acres.

During the survey of the Goff 30-5R well location and pipeline/access, two (2) archaeological sites and three (3) isolated occurrences were observed. Archaeological clearance, with stipulations, is recommended for the Goff 30-5R well location and pipeline/access. Details of the project, survey, cultural resources, and recommendations are included later in this report.

PREFIELD RECORDS SEARCH

Searching existing records is essential in any cultural resources management undertaking in order to determine what portions of an area have been previously inspected and what sites, if any, have been identified. On September 20, 1990, a records search of the Bureau of Land Management, Farmington Resource Area cultural resources files was completed for the project. The file search was completed prior to initiating field work for the project. The locations of previously recorded sites are illustrated on the Nearby Sites Map in Appendix B and are included only with the Bureau of Land Management's copies of this report.

A total of 28 previously recorded sites are located within a 1-mile radius of the project area. None, however, are located within 1,000 feet of the Goff 30-5R project.

PROJECT LOCATIONS AND DESCRIPTIONS

Goff 30-5R well location and pipeline/access

(Figure 1 and Appendix A)

Legal Description:

Well Pad: SE 1/4, SW 1/4, NW 1/4, (2055' FNL, 824' FWL)

Section 30, T.24 N., R.6 W., NMPM

Pipeline/Access: SW 1/4, SW 1/4, NW 1/4,
and SE 1/4, SW 1/4, NW 1/4
Section 30, T.24 N., R.6 W., NMPM
Rio Arriba County, New Mexico

Elevation: 6,883 feet

Map Reference: Crow Mesa East, New Mexico
7.5' USGS Quadrangle, 1985 Provisional

Land Jurisdiction: Bureau of Land Management,
Farmington Resource Area

Project Area (Area of Effect):

Well Pad: 300 ft. x 250 ft. (1.72 acres)

Well Pad and Construction Zone: 400 ft. x 350 ft.
(3.21 acres)

Pipeline/Access: 750 ft. x 50 ft. (0.86 acres)

Total Area of Effect: 4.07 acres

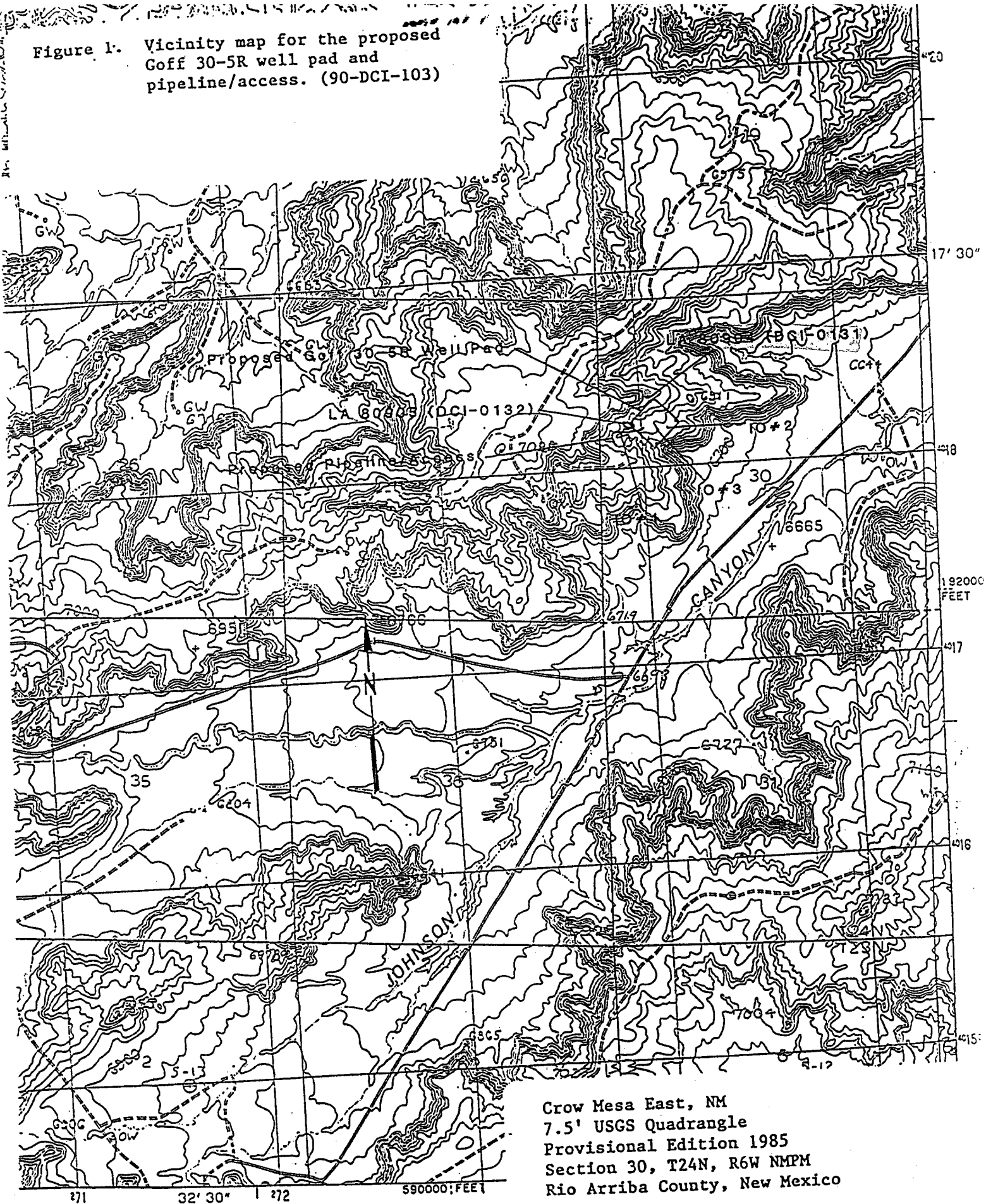
Area Surveyed (Area of Effect and Cultural Buffer Zone):

Well Pad: 600 ft. x 550 ft. (7.58 acres)

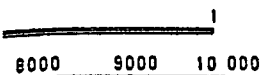
Pipeline/Access: 750 ft. x 150 ft. (2.58 acres)

Total Area Surveyed: 10.16 acres

Figure 1. Vicinity map for the proposed
Goff 30-5R well pad and
pipeline/access. (90-DCI-103)



Crow Mesa East, NM
7.5' USGS Quadrangle
Provisional Edition 1985
Section 30, T24N, R6W NMPM
Rio Arriba County, New Mexico



Improved Road
Unimproved Road

Remarks:

The locations and acreage archaeologically inventoried constitute the proposed Goff 30-5R well pad and pipeline/access locations. Another potential location that fell within Bannon Energy, Inc.'s lease was initially considered, but an archaeological site, described in this report, was found prior to the staking of this location. Consequently, the only well pad and pipeline/access that was staked, flagged and systematically inventoried for this project is that described here and shown in Appendix A.

FIELD METHODOLOGY

Two survey methods were employed for this project. Because cultural resource incidence is known to be high in the mesa-canyon country north of Lybrook, the second potential location for the Goff 30-5R well pad was archaeologically examined prior to land survey and staking by reconnaissance. A series of roughly parallel transects spaced 70 to 90 feet apart were walked over the general area. The results of the reconnaissance were negative and the well pad was then land surveyed, staked, and the pipeline/access centerline was flagged. The zig-zag transect method was employed to inventory the staked and flagged project area. The transects were oriented parallel to each other and parallel to the laydown angle for the well pad (Appendix A, Exhibit 1), and the axis of the pipeline/access centerline. The construction and buffer zones were inspected in this manner employing a transect interval of 30 feet. Weather conditions at the time of the field work were partly cloudy. The ground surface was dry at the time of the survey and the vegetative cover was approximately 30 percent.

When artifacts were observed during survey, their distribution was delineated by marking artifact locations with pin flags. Archaeological sites and isolated occurrences were recorded on Museum of New Mexico, Laboratory of Anthropology, Archaeological Site Survey Forms and Isolated Occurrence Forms, respectively. Site and isolated occurrence definitions applied to cultural resources comply with standards set forth in the New Mexico Bureau of Land Management, Cultural Resource Use Permit, Special Conditions for Survey Permits (2920). Completed forms, documenting these cultural resources are included in Appendices C and D.

PHYSIOGRAPHY AND ENVIRONMENT

Natural Setting

The project area is located on a small bench that overlooks Johnson Canyon to the east with the project area sloping to the southeast. Sandstone and clay/shale bedrock outcrop on the eastern edge of the bench and on the escarpment that forms the

northern side of the bench. Soils are sandy colluvium. The vegetation is dominated by pinyon-juniper woodland. Understory vegetation includes cliffrose, sagebrush, broadleaf yucca, and sparse grama grass. Evidence of rabbit and deer are present.

Potential Resources

Prehistorically, native flora and fauna observed during survey could have been used by aboriginal populations for food, clothing, and select types of tools. Non-food resources in the area include sandstone and cobbles for building material and stone implements, clay for ceramics and construction material, and trees for building materials and fuel.

Modern Cultural Setting

The area is presently used for a variety of activities. Oil and gas extraction has been and currently is active in the area. The construction of numerous roads for energy resources development has made the area readily accessible for hunting and camping. Stock grazing and woodcutting are also prevalent in the area.

CULTURAL RESOURCES

The archaeological survey of the proposed Goff 30-5R well pad and pipeline/access resulted in the documentation of two sites and three isolated occurrences (Figure 2). Site LA 80904 (DCI-0131) is located approximately 70 feet north of the northwesternmost edge of the cultural buffer zone for the proposed Goff 30-5R well pad. This site was discovered within a potential location for the well pad. The presence of the site resulted in the selection and staking of the proposed location. The second site, LA 80905 (DCI-0132), is located approximately 98 feet west of the left rear corner stake and partially within the corresponding portion of the cultural buffer zone for the well pad. One isolated occurrence (IO #1) was found approximately 12 feet south of the proposed pipeline/access centerline and approximately 570 feet east of its beginning on the northeastern edge of the existing Goff 30-5 well pad. IO #2 is located approximately 70 feet south of the right corner stake within the cultural buffer for the proposed Goff 30-5R well pad. The third isolate, IO #3 is located approximately 25 feet southwest of the right centerline stake within the construction zone for the proposed Goff 30-5R well pad. These resources are described below.

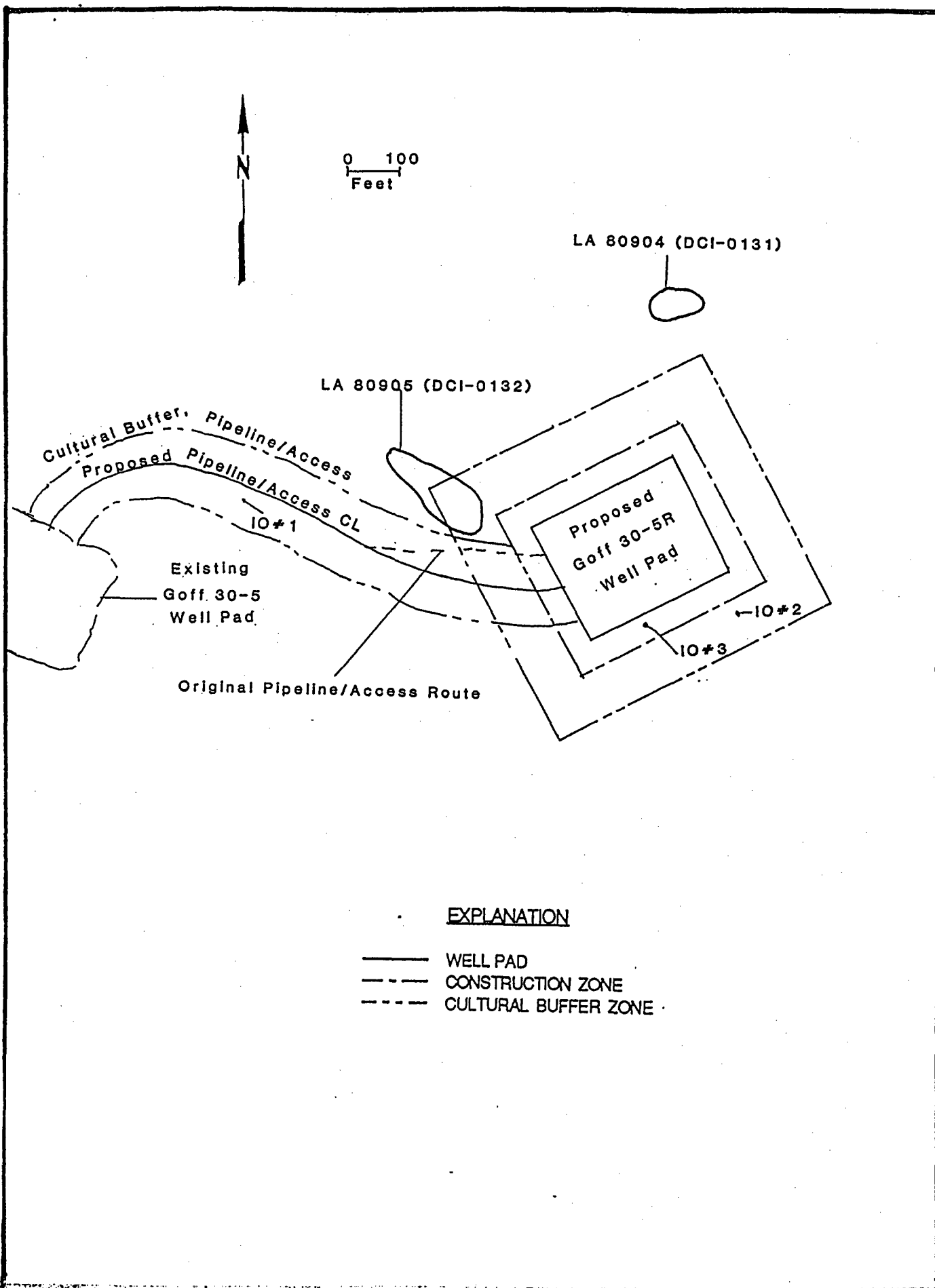


Figure 2. Relationship between the Project area and cultural resources. (90-DCI-103)

LA 80904 (DCI-0131) (Figure 3)

Site LA 80904 (DCI-0131) is an early Navajo habitation locus. It measures approximately 20 meters (north/south) by 36.5 meters (east/west). It is situated on a mesa bench overlooking Johnson Canyon to the east. The site contains two habitation related features and datable deposits. It is assessed to be National Register of Historic Places eligible.

LA 80905 (DCI-0132) (Figure 4)

Site LA 80905 (DCI-0132) is situated at the base of a southeast facing slope. It measures approximately 72 meters (NW-SE) by 30 meters (NE-SW). The site appears to represent a specialized activity locus, however, its age and cultural affiliation could not be identified. It is assessed to be National Register of Historic Places eligible.

Isolated Occurrences

Three isolated occurrences were documented during the archaeological survey. IO #1 is a fragmentary bifacial mano made of tan quartzite. IO #2 is a pink quartzite secondary flake which measures 4.7 x 4.2 x 0.6 cm. IO #3 is a multi-colored red/yellow/white petrified wood tertiary flake measuring 5.7 x 3.4 x 0.5 cm.

ELIGIBILITY AND MANAGEMENT RECOMMENDATIONS

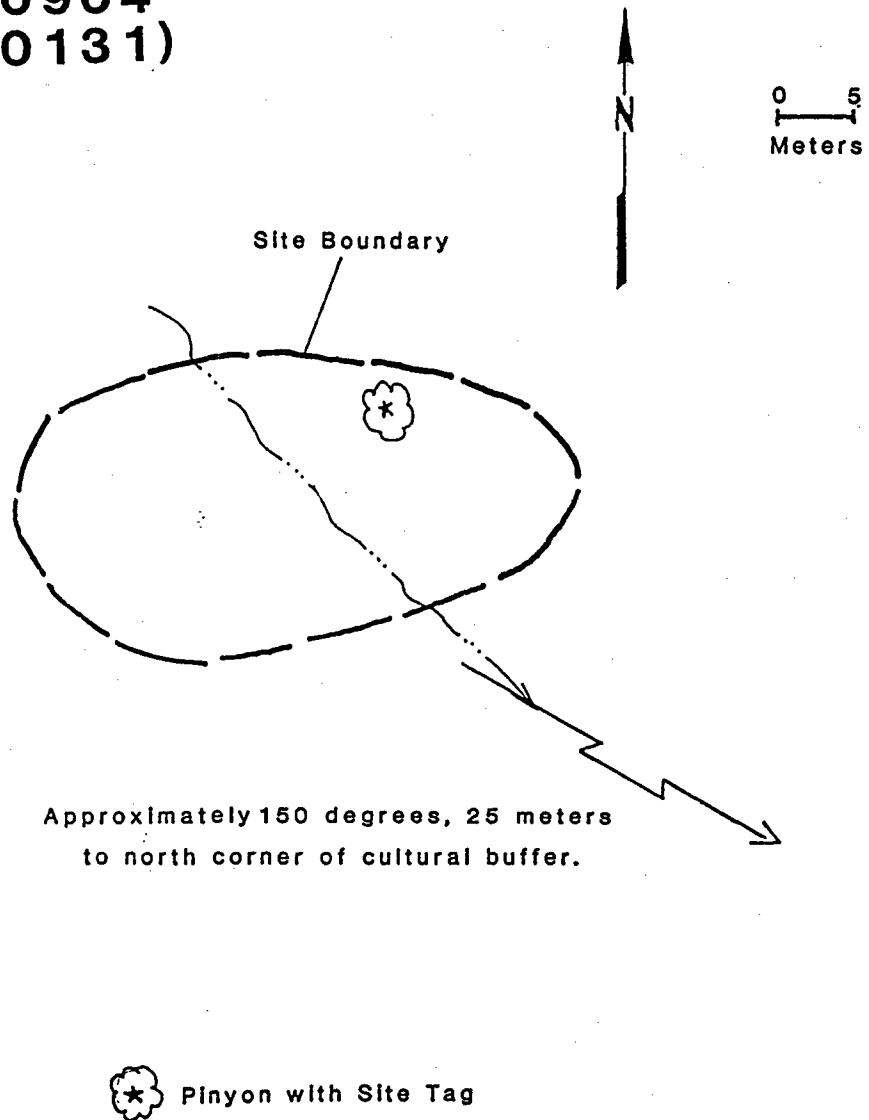
Eligibility Evaluations

Evaluation of eligibility to the National Register of Historic Places (36 CFR 60) is important for the current and future management of cultural resources. The eligibility status relates to cultural resource significance, which consequently provides guidance with respect to the treatment of properties relative to proposed actions. Thus appropriate recommendations can be made in consideration of both the resource and proposed action.

The evaluation of cultural resources for eligibility to the National Register is composed of three parts; 1) an assessment of integrity, 2) a consideration of eligibility criteria and exceptions, and 3) a consideration of the 50-year guideline. The assessment of integrity, according to Federal regulation (36 CFR 60.4), entails "objects that possess integrity of location, design, setting, materials, workmanship, feeling and association". The four criteria ordinarily applied in the evaluation of cultural resources are:

- (a) that are associated with events that have made a significant contribution to the broad patterns of our history; or

LA 80904
(DCI-0131)



M Kemrer 9/26/90

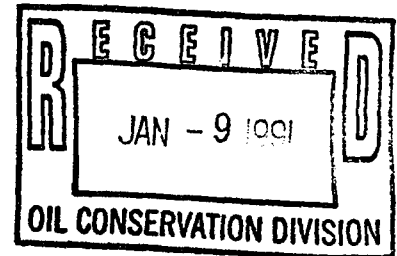
Figure 3. Map of Site LA 80904 (DCI-0131). (90-DCI-103)

A. R. KENDRICK

P.O. BOX 516 • AZTEC, NEW MEXICO 87410 • (505) 334-2555

January 7, 1991

Mr. Michael Stogner
Oil Conservation Division
Box 2088
Santa Fe, New Mexico 87504-2088



Re: Application for Non-Standard Locations
Bannon Energy, Inc.

Dear Mr. Stogner:

The enclosed plot is of the area of the applications for Non-Standard Location applications filed in behalf of Bannon Energy for their Goff 30 #5R and Mesa 25 #2R wells. The well spots are approximate.

The spacing rules set out in Order R-5353 look good on paper, but they do not fit the actual situation on the ground in as far as topography and archaeological situations go.

Bannon Energy does not wish to spend the additional time or money to have these applications set for hearings.

If further information is needed, please contact me.

Yours very truly,

A handwritten signature in cursive script that reads "A. R. Kendrick".

A. R. Kendrick

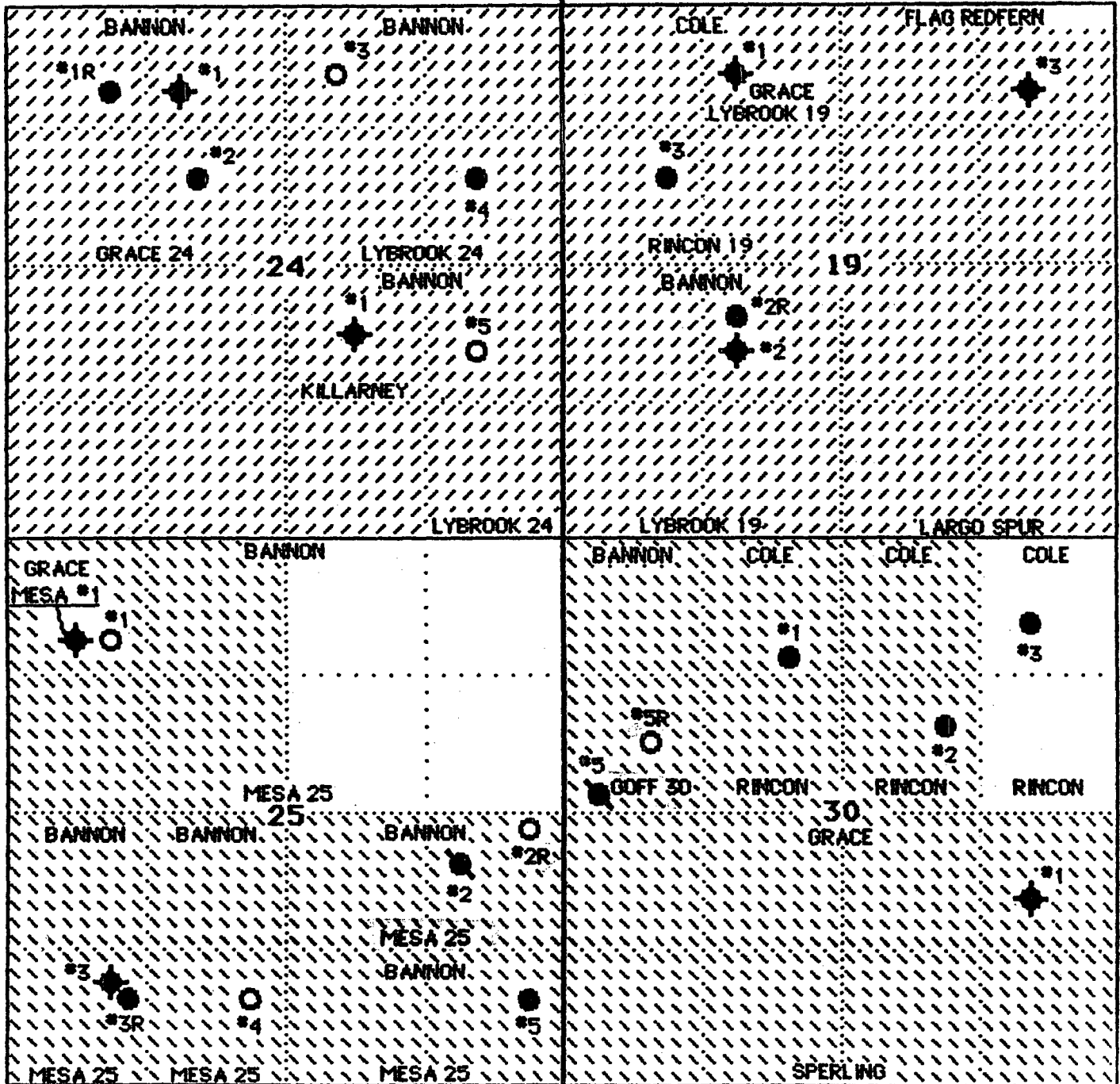
Enclosure

xc: Bannon Energy, Inc.

TOWNSHIP 24 NORTH

RANGE 7 W

RANGE 6 W



DEVILS FORK GALLUP ASSOCIATED POOL



ESCRITO GALLUP ASSOCIATED POOL

GALLUP OIL AND ASSOCIATED POOLS

WEST LINDRITH T 25 N

WEST LINDRITH T 24 N

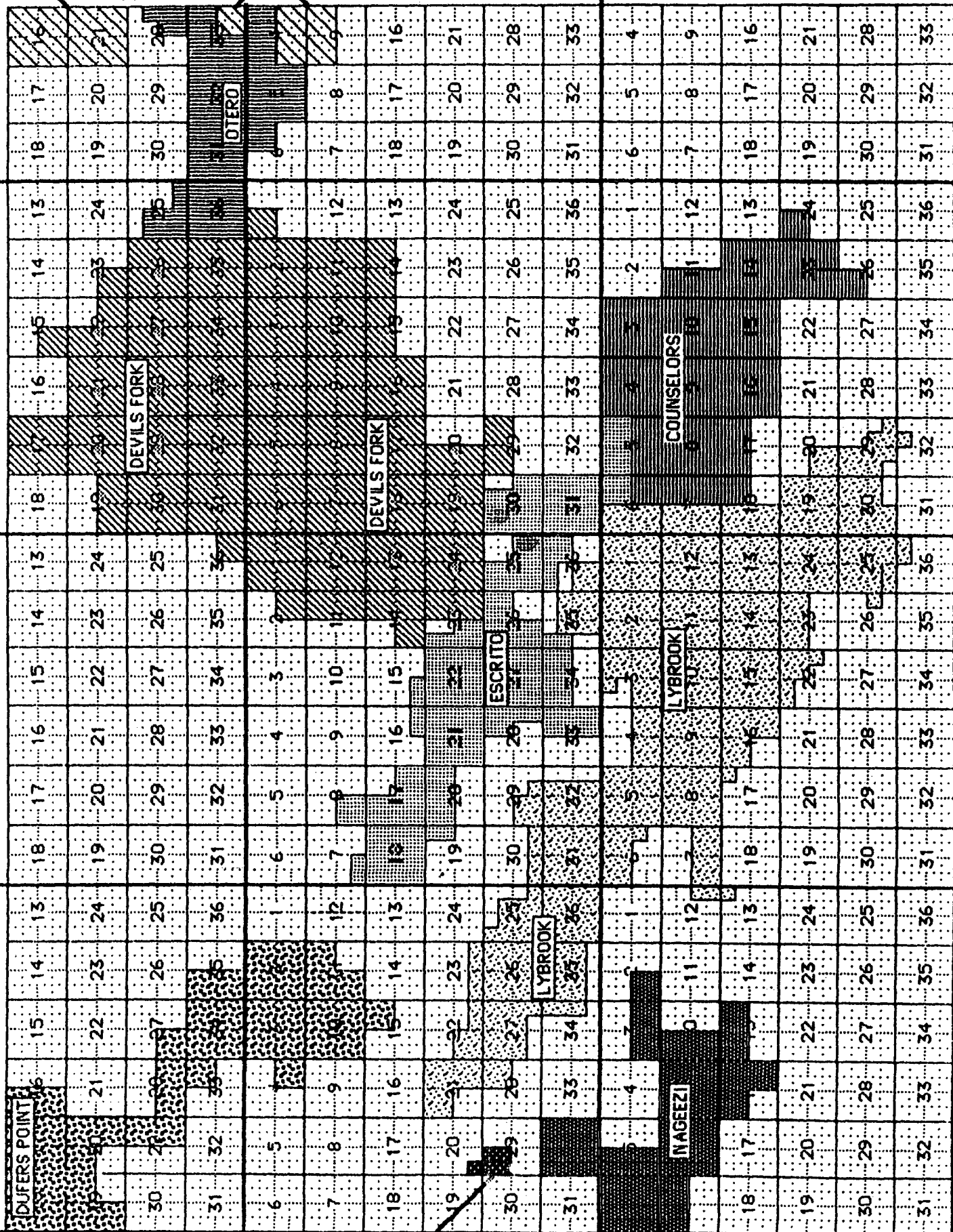
T 23 N

R 5 W

R 6 W

R 7 W

R 8 W



CURVED