

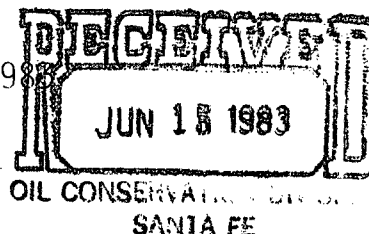


207 SOUTH FOURTH STREET
ARTESIA, NEW MEXICO 88210

TELEPHONE (505) 748-1331

S. P. YATES
PRESIDENT
MARTIN YATES, III
VICE PRESIDENT
JOHN A. YATES
VICE PRESIDENT
B. W. HARPER
SEC. TREAS.

JUNE 9, 1983



MR. JOE D. RAMEY, SECRETARY-DIRECTOR
NEW MEXICO OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

*NSL 1711
Rule 104F
7-5-83*

RE: RUTH "XK" FEDERAL #1
LEASE NO. NM-51830
SEC. 1-T7S-R25E
2180' FSL & 1980' FEL
CHAVES COUNTY, N.M.

DEAR SIR,

YATES PETROLEUM CORPORATION WOULD APPRECIATE AN ADMINISTRATIVE APPROVAL FOR A PROPOSED UNORTHODOX ABO GAS WELL LOCATION AS PROVIDED FOR UNDER NMOCD RULE 104F.

OUR PREFERRED LOCATION FOR THIS WELL WAS 1980' FSL AND 1980' FEL. REASONS FOR REQUESTING THE NON-STANDARD LOCATION INCLUDE THE FOLLOWING:

1. ARCHAEOLOGICAL SITE FOUND ON OR NEAR LOCATION.

ENCLOSED PLEASE FIND A COPY OF THE LEASE MAP SHOWING OFFSETTING LEASE OPERATORS, A TOPOGRAPHICAL MAP OF THE AREA AND AN ARCHAEOLOGICAL REPORT. OFFSETTING LEASE OPERATORS HAVE BEEN NOTIFIED OF OUR INTENTIONS BY CERTIFIED MAIL, VIA A XEROX COPY OF THIS LETTER.

FORMATIONS WE EXPECT TO DRILL THROUGH ARE: SAN ANDRES GLORIETA, FULLERTON, ABO.

THANK YOU FOR YOUR HELP IN THIS MATTER.

SINCERELY,

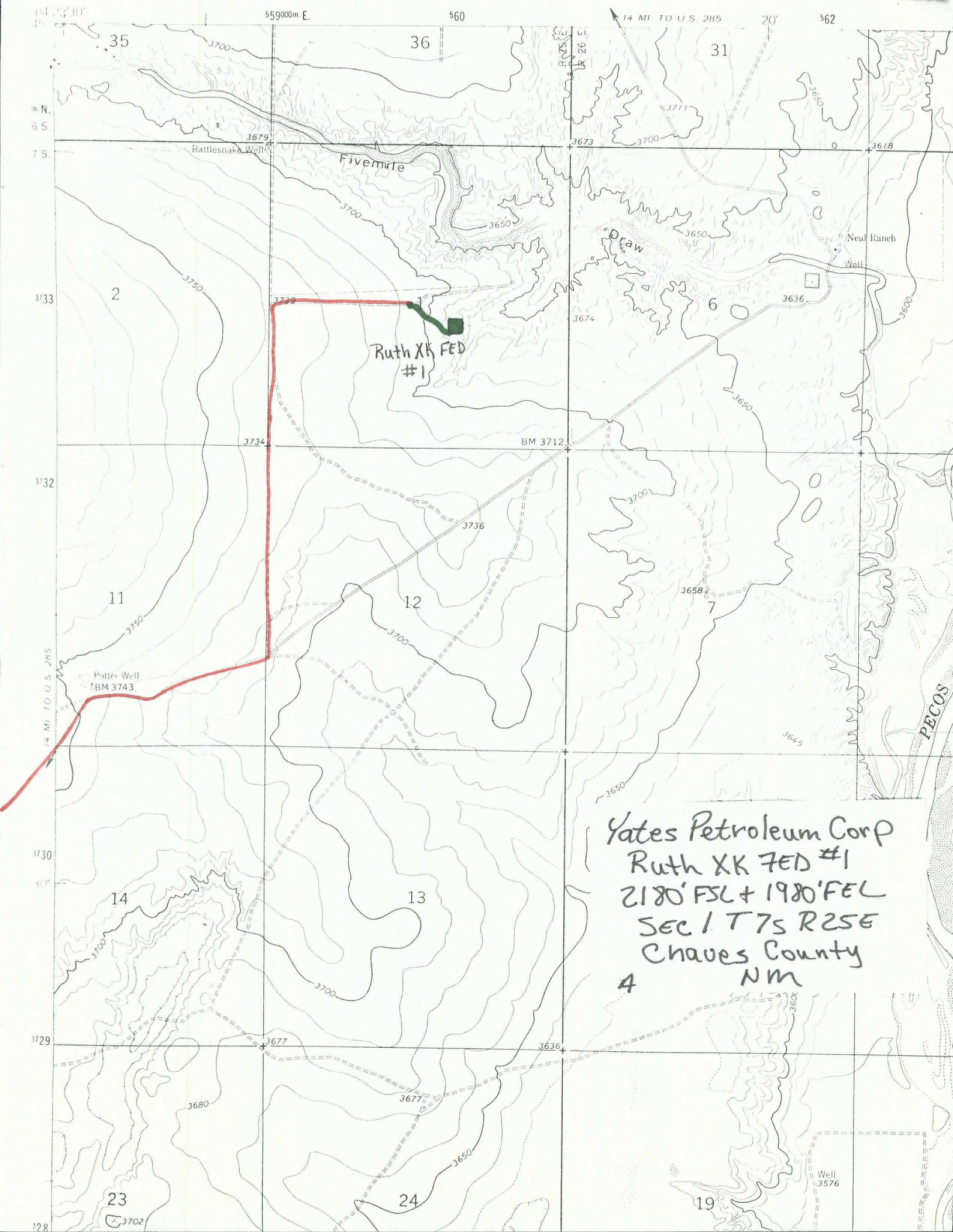
Cy Cowan

CY COWAN
REGULATORY AGENT
YATES PETROLEUM CORPORATION

CC/DW

ENCLOSURES

XC: MESA PETROLEUM Co.



Ruth XK FED #1

Yates Petroleum Corp
Ruth XK FED #1
2180' FSL + 1980' FEL
SEC 1 T7S R25E
Chaves County
NM
4



NMAS
New Mexico Archaeological Services, Inc.

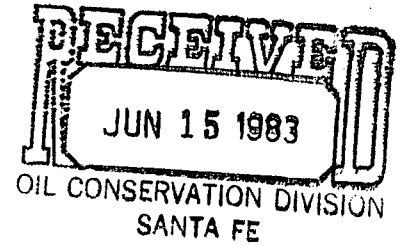
P. O. Box 1341

Carlsbad, New Mexico 88220

(505) 887-7646

13 June 1983

Reconnaissance
Excavation
Analysis
Explanation
Curation



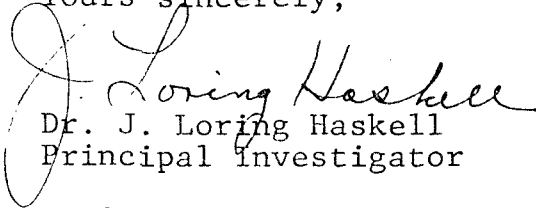
Mr. Cy Cowan
Regulatory Agent
YATES PETROLEUM CORPORATION
207 South 4th Street
Artesia, New Mexico 88210

Dear Mr. Cowan:

Enclosed please find NMAS' Archaeological Clearance Report for YATES PETROLEUM CORPORATION's proposed Ruth "XK" Federal Well No. 1 and its associated access road in Chaves County, New Mexico. Three archaeological sites and four isolated cultural resources (CR) were recorded during this reconnaissance. NMAS is suggesting clearance for this project provided the archaeological sites are avoided.

If you have any questions pertaining to this report, please call my office. Thank you for asking NMAS to do this reconnaissance.

Yours sincerely,


Dr. J. Loring Haskell
Principal Investigator

Enclosure

cc: Ms. Ann Ramage, BLM, Roswell
Mr. George Stewart, USGS, Roswell
Mr. Curtis Schaafsma, Laboratory of Anthropology,
Santa Fe
Mr. Thomas W. Merlan, SHPO, Santa Fe

as

Archaeological Clearance Report
for
YATES PETROLEUM CORPORATION

Ruth "XK" Federal Well No. 1

Prepared
By
Dr. J. Loring Haskell

Submitted
By
Dr. J. Loring Haskell
Principal Investigator
New Mexico Archaeological Services, Inc.
Carlsbad, New Mexico

13 June 1983

Permit No. 82-NM-376

ABSTRACT

New Mexico Archaeological Services, Inc., representing YATES PETROLEUM CORPORATION, Artesia, undertook an archaeological reconnaissance of Bureau of Land Management lands scheduled to be impacted by the construction of a drill location and access road. The proposed work will be situated in Section 1, T7S, R25E, NMPM, Chaves County, New Mexico. Cultural properties consist of three archaeological sites (NMAS 5523, NMAS 5524, and NMAS 5525) and four isolated cultural occurrences (CR). Clearance is suggested provided the archaeological sites are avoided.

Introduction

On 2 and 7 June 1983, New Mexico Archaeological Services, Inc., (NMAS), Carlsbad, undertook for YATES PETROLEUM CORPORATION, Artesia, an archaeological reconnaissance of federal lands administered by the Bureau of Land Management in Chaves County, New Mexico. The reconnoitered area will be impacted by the construction of a drill location and its associated access road. This project was advanced by Mr. Cy Cowan, Regulatory Agent, YATES PETROLEUM CORPORATION, and administered by Dr. J. Loring Haskell, Principal Investigator, NMAS, Inc. This reconnaissance was undertaken by Dr. Haskell.

Survey Technique

For this investigation, YATES PETROLEUM CORPORATION's proposed location was reconnoitered for evidence of man's past activities by walking it in a series of 25 ft wide, close interval (15° or less), zigzag transects. In addition, an added zone extending 20 ft on each side of the staked 400 X 400 ft location and lying outside the bounds of the proposed work area, was reconnoitered by a similar means. The access road was walked in two 25 ft wide transects. Lathe is considered to the center of the proposed road. Methodologically, these procedures served to promote optimal conditions for the visual examination of areas to be impacted by construction-related activities.

Ruth "XK" Federal Well No. 1

Location

The proposed location will measure (230 X 230 ft) Actual Area Surveyed 4.44 Acres) on federal lands and will be situated 2180 ft from the south line and 1980 ft from the east line of:

Section 1, T7S, R25E, NMPM, Chaves County, NM

Thus it will be situated in the:

NW $\frac{1}{4}$ SE $\frac{1}{4}$, Section 1, T7S, R25E, NMPM, Chaves County, NM

The associated access road will measure approximately 20 X 900 ft (Actual Area Surveyed 1.03 Acres) and is situated in the:

NW $\frac{1}{4}$ SE $\frac{1}{4}$, Section 1, T7S, R25E, NMPM, Chaves County, NM

NE $\frac{1}{4}$ SW $\frac{1}{4}$, Section 1, T7S, R25E, NMPM, Chaves County, NM

Map Reference: USGS EIGHTMILE DRAW QUADRANGLE, 7.5 Minute Series, 1962.

Terrain

YATES PETROLEUM CORPORATION's proposed location will be situated on the north-facing shoulder of a locally prominent ridge system which flanks Fivemile Draw. Locally, surficial deposits are remarkably variable in terms of origin and hence their makeup. Soil individuals, however, are dominated by the clay and silt separates. Knoll-like, or knob-like, features, commonly occurring on sinuous projections of the ridge, are notable for their dense screes of chert and quartzite cobbles as well as less frequent igneous material. Sinuous projections of the ridge are separated from one another by a developing network of entrenched arroyos. Taxonomically, soil individuals are assignable to the Ustollic Camborthid, Typic Gypsiorthid and Gypsum Land subgroups and their intergrades.

Floristics

Areal soils host an overstory of Prosopis juliflora, Atriplex [○] canescens, and Condalia ericoides. Forbs are represented by Croton sp., Dyssodia sp., Gutierrezia sarothrae, Lesquerella sp., and Zinnia acerosa. The Gramineae is represented by Aristida sp., Bouteloua sp., Hilaria mutica, Scleropogon brevifolius, Muhlenbergia porterii, and Tridens pulchellus.

Cultural Resources

During the course of this reconnaissance, three archaeological sites (NMAS 5523, NMAS 5524, and NMAS 5525) and four isolated cultural occurrences were recorded.

Isolated Cultural Resources (CR)

CR 1, consisting of one quartzite chopper, is situated at a point 125 ft northwest of the center stake. It is located in the:

SE $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$, Section 1, T7S, R25E, NMPM, Chaves County, NM

UTM: Zone 13, N3,732,820; E560,070

Map Reference: USGS EIGHTMILE DRAW QUADRANGLE, 7.5 Minute Series, 1962.

CR 2, consisting of one quartzite secondary decortication flake lacking retouch, is situated at a point 200 ft north of the center stake. It is located in the:

SE $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$, Section 1, T7S, R25E, NMPM, Chaves County, NM

UTM: Zone 13, N3,732,840; E560,090

Map Reference: USGS EIGHTMILE DRAW QUADRANGLE, 7.5 Minute Series, 1962.

CR 3, consisting of one quartzite scraper-graver, is located at a point 200 ft north-northwest of the center stake. It is located in the:

SE $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$, Section 1, T7S, R25E, NMPM, Chaves County, NM

UTM: Zone 13, N3,732,840; E560,070

Map Reference: USGS EIGHTMILE DRAW QUADRANGLE, 7.5 Minute Series, 1962.

NMAS 5523

Location: NW $\frac{1}{4}$ SE $\frac{1}{4}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$, Section 1, T7S, R25E, NMPM, Chaves County, NM

UTM: Zone 13, N3,732,740; E560,120

Map Reference: USGS EIGHTMILE DRAW QUADRANGLE, 7.5 Minute Series,
1962.

Ownership: Bureau of Land Management

Dimension of Resources: 90 X 150 m

Typological Designation: Task Locus

Authorship/Temporality: Unknown

Nature of Cultural Resources: NMAS 5523, a large task locus, is situated on a bluff overlooking a side channel of Fivemile Draw. Locally, this landform is distinguished by gypsiferous outcroppings which are often overlain by a thin mantle of calcareous silty clay loams. Screens of chert, quartzite, quartzite and igneous cobbles are present on a sporadic basis. Sheetwash is intense and the landform as a whole, is braided with a network of extrenched gullies.

Observed cultural properties occur in the form of a series of minor concentrations as well as in more solitary fashion. Resources include: chert and quartzite primary- and secondary-decortication flakes, thinning flakes of these materials, tabular flakes, unprepared quartzite cores, quartzite hammerstones, quartzite graters and abraders. Many of the quartzite primary- and secondary-decortication flakes exhibit signs of having been modified. No diagnostic artifacts were observed; temporality and authorship therefore, cannot be established. Owing to the amount of material at this site, re-occupation on a number of occasions seems probable. Prehistorically, the environs of Fivemile Draw were a popular place for the roughing out and refinement of flaked tools. Quartzite was the preferred medium for this activity. Occupancy of

this site was brief at any one time.

NMAS 5524

Location: SE $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$, Section 1, T7S, R25E, NMPM, Chaves County,
NM

UTM: Zone 13, N3,732,840; E560,030

Map Reference: USGS EIGHTMILE DRAW QUADRANGLE, 7.5 Minute Series,
1962.

Ownership; Bureau of Land Management

Dimension of Resources: 9 X 9 m

Typological Designation: Task Locus

Authorship/Temporality: Unknown

Nature of Cultural Resources: NMAS 5524, a small task locus, is situated on and is coextensive with a small knoll-like eminence. Locally, this geomorphological feature is overlain by a dense scree of chert, quartzite and igneous cobbles. The site is flanked by minor arroyos. Observed cultural resources include quartzite primary- and secondary- decortication flakes, several quartzite hammerstones, a quartzite biface, a quartzite tabular flake, several quartzite thinning flakes, a quartzite chopper, and a quartzite scraper. Resources are concentrated and confined to the knoll-like eminence. No diagnostic artifacts were observed and hence authorship and temporality remain unknown.

Further investigation work here should focus on the nature of flaked-tool manufacture and the nature of task-specific activities.

NMAS 5525

Location: SW $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$, Section 1, T7S, R25E, NMPM, Chaves County, NM

UTM: Zone 13, N3,732,840; E559,910

Map Reference: USGS EIGHTMILE DRAW QUADRANGLE, 7.5 Minute Series,
1962.

Ownership: Bureau of Land

Dimension of Resources: 7 X 15 m

Typological Designation: Task Locus

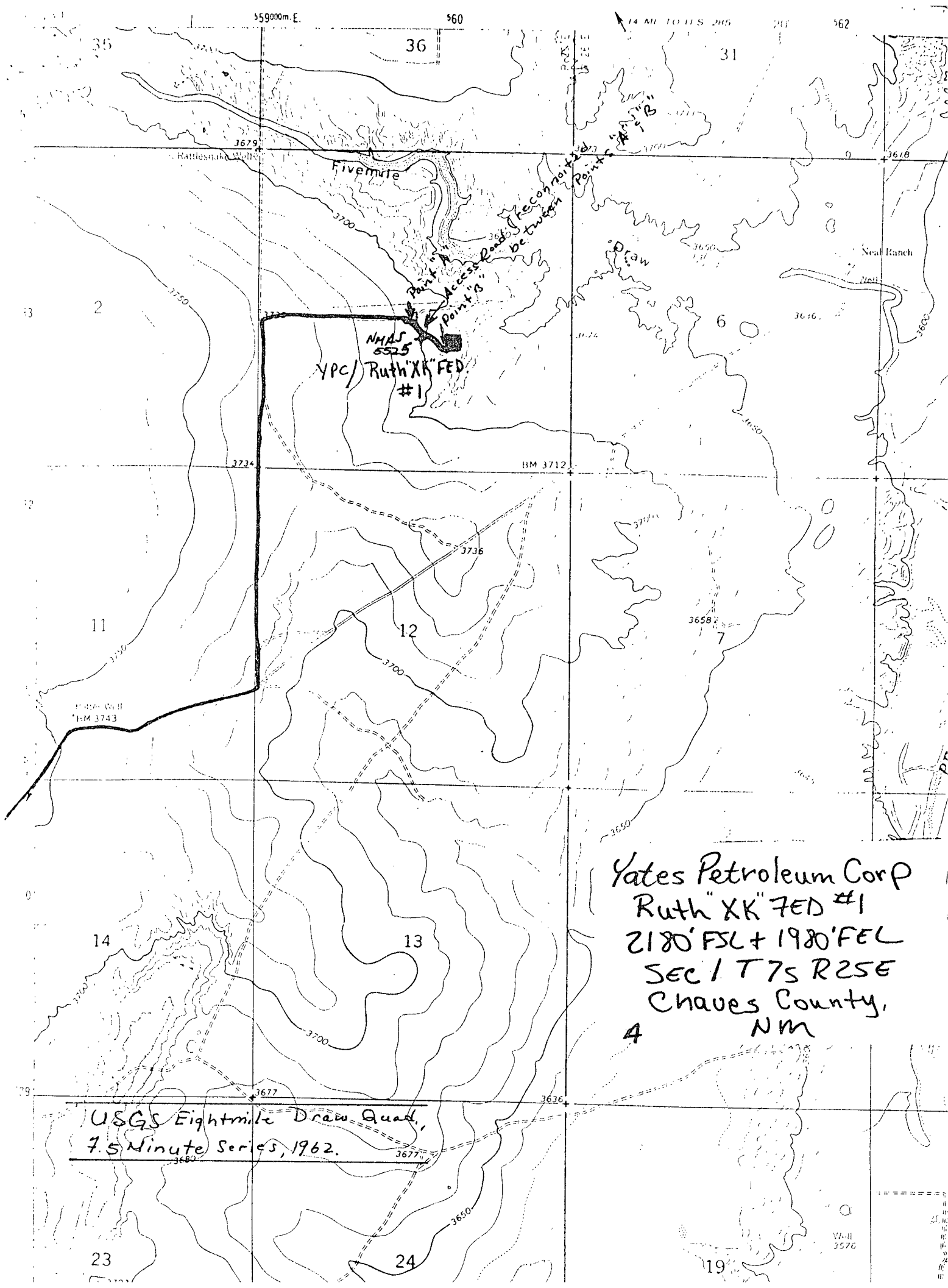
Authorship/Temporality: Unknown

Nature of Cultural Resources: NMAS 5525, a highly concentrated task locus, is situated on a semi-denuded landform which is presently undergoing downcutting owing to intensive sheetwash. The intensity of this activity has resulted in the exposure of often copious amounts of siliceous lithic material. Observed cultural properties include a concentration of quartzite primary- and secondary-decortication flakes as well as several hammerstones. Additionally, an isolated unprepared quartzite core and primary decortication flake occur to the northwest of the concentration. No diagnostic artifact remains were observed and hence temporality and authorship remain unknown. Occupancy of this site was brief and occurred once. This site is one of many occurring in the vicinity of the Fivemile draw catchment. Uniformly, activities at these manifestation centered on flaked-tool manufacture.

Recommendations

NMAS suggests clearance for YATES PETROLEUM CORPORATION's proposed location and road provided the three archaeological sites are avoided. NMAS 5523 is situated well to the south, east and southeast of the work area and is not threatened by the proposed work. As for NMAS 5524, it is situated at a point approximately 90 ft west-northwest of the northwest corner of the 230 X 230 ft pad; consequently, it is not threatened by YATES' work. Lastly, NMAS 5525 is situated to the south of the proposed northwest to southeast access road. Lathe, placed s

as to avoid the site, is considered to be the center of the proposed road. (Lathe, indicating locations of archaeological sites, are distinguished by blue flags.) If additional cultural resources are encountered during construction, the BLM and NMAS should be notified immediately. Men and materiel are to avoid all archaeologically sensitive areas. Clearance, of course, is granted by the Bureau of Land Management.



Yates Petroleum Corp
Ruth "XK" Field #1
2180' FSL + 1980' FEL
Sec 1 T7S R25E
Chaves County,
NM
4

USGS Eightmile Draw Quad,
7.5 Minute Series, 1962.

104°22'30"
33°45'

