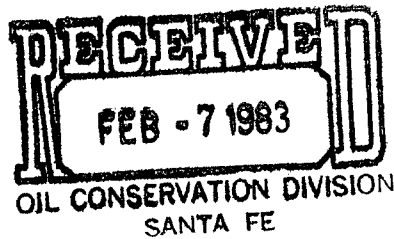




207 SOUTH FOURTH STREET  
ARTESIA, NEW MEXICO 88210

TELEPHONE (505) 748-1331



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

February 1, 1983

*NSL 1657  
Rule 104 F  
Feb 27-83*

Mr. Joe Ramey, Secretary-Director  
New Mexico Oil Conservation Division  
P.O. Box 2088  
Santa Fe, New Mexico 87503

Re: Sorenson "IB" Federal #2  
1070' FNL and 860' FWL  
Sec. 6-T7S-R26-E  
Chaves County, NM

*1760 gas*

Dear Sir:

Yates Petroleum Corporation is proposing to drill the above referenced well. We are requesting administrative approval for this unorthodox location. The reason for moving this well from the original location of 660' FNL and 860' FWL is due to bluffs that form the north boundary of Five Mile Draw and archaeology scattered in these bluffs. A report from New Mexico Archaeological Services is enclosed along with a topographical map.

Enclosed is a lease map showing that offsetting lease acreage is owned by Mesa Petroleum and Getty Petroleum. We have notified these companies 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. The well will be an Abo test.

Thank you for your help in this matter.

Sincerely,

*Cy Cowan*

Cy Cowan  
Regulatory Coordinator  
YATES PETROLEUM CORPORATION

CC/dw

enclosures

xc: Mesa Petroleum Co., Getty Petroleum Co.





# NMAS

## New Mexico Archaeological Services, Inc.

P. O. Box 1341  
Carlsbad, New Mexico 88220  
(505) 887-7646

31 January 1983

Reconnaissance  
Excavation  
Analysis  
Explanation  
Curation

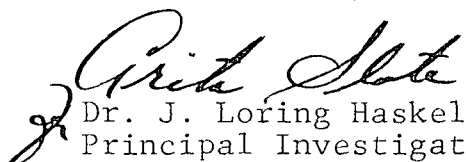
Mr. Cy Cowan  
Regulatory Agent  
YATES PETROLEUM CORPORATION  
207 South 4th Street  
Artesia, New Mexico 88210

Dear Mr. Cowan:

Enclosed please find NMAS' Archaeological Clearance Report for YATES PETROLEUM CORPORATION's proposed Sorenson "IB" Federal Well No. 2 and its associated access road in Chaves County, New Mexico. One archaeological site (NMAS 5459) was recorded during this reconnaissance. NMAS *does not suggest* clearance for this project.

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

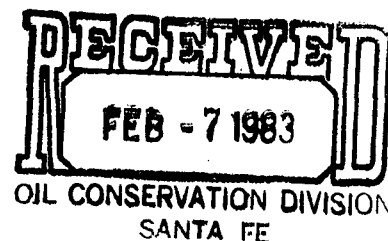
Yours sincerely,

  
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

Sorenson "IB" Federal Well No. 2

Prepared

By

Dr. J. Loring Haskell

Submitted

By

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

31 January 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 its accompanying access road. The proposed location and road will be situated in Section 6, T7S, R26E, NMPM, Chaves County, New Mexico. One archaeological site (NMAAS 5458) was recorded during this reconnaissance. Clearance *is not suggested* for this project.

## Introduction

On 14 January 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 embracing to 20 ft on each side of the staked 400 X 400 ft location, and hence lying outside the bounds of the proposed work area, was reconnoitered by a similar means. As for the access road, it was walked in two 25 ft wide transects. Methodologically, this procedure served to promote optimal conditions for the visual examination of areas to be impacted by construction-related activities.

Sorenson "IB" Federal Well No. 2

## Location

The proposed location will measure 400 X 400 ft on federal lands and will be situated 660 ft from the north line and 860 ft from the west line of:

Section 6, T7S, R26E, NMPM, Chaves County, NM

Thus it will be situated in the:

NW $\frac{1}{4}$ NW $\frac{1}{4}$ , Section 6, T7S, R26E, NMPM, Chaves County, NM

The associated access road will measure approximately 20 X 1400 ft and will be situated in the:

NE $\frac{1}{4}$ NW $\frac{1}{4}$ , Section 6, T7S, R26E, NMPM, Chaves County, NM

NW $\frac{1}{4}$ NW $\frac{1}{4}$ , Section 6, T7S, R26E, 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 within an amphitheatre-like feature which overlooks Fivemile Draw. This feature, resulting from mass wasting and differential erosional processes, is bounded on the east, north and west by prominent gypsiferous bluffs. Minor gypsiferous knolls, overlain with dense screes of quartzite and chert cobbles occur within this feature. Rills and deepening gullies braid the coeval surface. Drainage is to the south and is directly tributary to Fivemile Draw. Pedons are composed of silt loams, silty clay loams, clay loams, and sandy clay loams. Taxonomically, areal soils belong to the Gypsum Land, Typic Gypsiorthid, and Calcic Gypsiorthid subgroups.

### Floristics

Local soils are supportive of an overstory of Prosopis juliflora, Larrea tridentata, and Yucca glauca. Observed forbs include: Dyssodia sp., Gutierrezia sarothrae, and a number of unidentified Compositae. The Gramineae is represented locally by Sporobolus flexuosus, Aristida sp., and Tridens pulchellus.

### Cultural Resources

During the course of this reconnaissance, one archaeological site (NMAS 5459) was recorded.

NMAS 5459

Location: NE $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ , Section 6, T7S, R26E, NMPM, Chaves County, NM  
N $\frac{1}{2}$ SE $\frac{1}{4}$ NW $\frac{1}{4}$ , Section 6, T7S, R26E, NMPM, Chaves County, NM

UTM: Zone 13, N3,733,560; E560,960

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

Ownership: Bureau of Land Management Administration

Dimension of Resources: 150 X 260 m

Typological Designation: Task Locus

Temporality: Unknown

Nature of Cultural Resources: NMAS 5459, a task locus, is situated along the shoulder of a prominent ridge system which overlooks Fivemile Draw. Locally, this landform is braided by a series of deepening arroyos and gullies. Overall, this area is subject to the effects of ephemeral sheetwash with runoff being to the south. When exposed, gypsiferous outcroppings are typically overlain by screes of gravel- and cobble-sized cherts and quartzites of Pliocene-age. Observed cultural properties include quartzite cores and exhausted cores, chert and quartzite primary-secondary- and tertiary decortication flakes, quartzite hammerstones, quartzite choppers, chert and quartzite utilized flakes, and several piles of cobbles of which associated nodules evidence signs of human modification. Numerous major concentrations were noted, as well as a light and extensive scatter. Sites of this type typically line the shoulders of ridge systems occurring immediately north and south of Fivemile Draw. NMAS 5459 functioned principally as a site at which stone artifacts were roughed out; finishing of artifacts typically occurred elsewhere. This judgement is based on the fact that tertiary decortication flakes, while present, are on the scarce side. Temporality and authorship remain unknown because of the absence of diagnostic artifacts. This site has been termed a task locus owing to the presence of the lithic

concentrations.

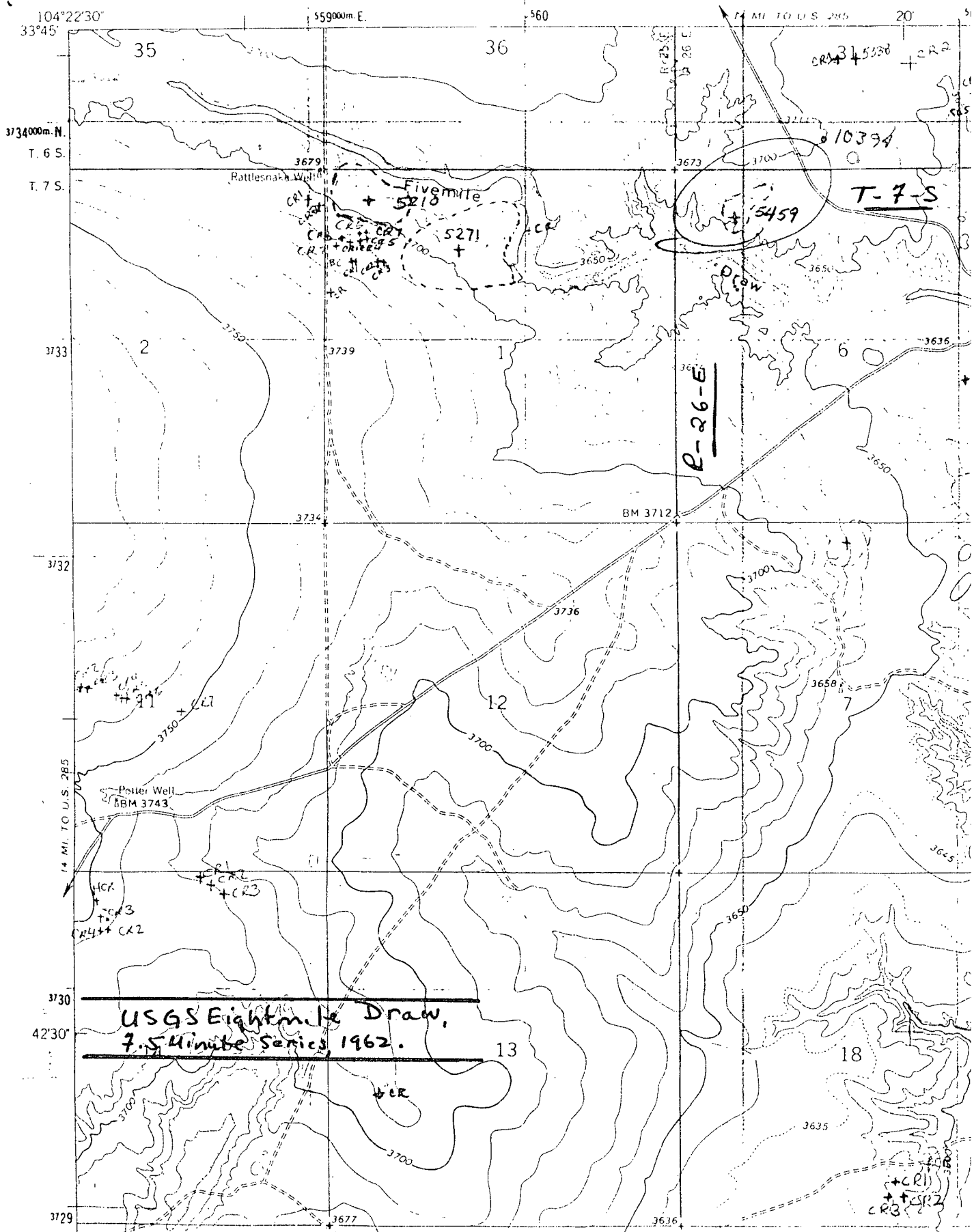
Further investigation of this site should focus on more precise mapping of this manifestation as well as collection and analysis of cultural properties. Temporality and authorship may be established at this time.

#### Recommendations

NMAS *does not recommend* clearance for YATES PETROLEUM CORPORATION's proposed Sorenson "IB" Federal Well No. 2 and its accompanying access road because of the impossiblity of avoiding cultural properties associated with NMAS 5459.



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY



Samson IB Feb 2

(See Reverse)

SENT TO		17000 1st Avenue	
STREET AND NO.		17000 1st Avenue	
P.O. STATE AND ZIP CODE		P.O. STATE AND ZIP CODE	
POSTAGE		17000 1st Avenue	
CERTIFIED FEE		\$	
SPECIAL DELIVERY		¢	
RESTRICTED DELIVERY		¢	
SHOW TO WHOM AND DATE DELIVERED		¢	
SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY		¢	
SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY		¢	
SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY		¢	
TOTAL POSTAGE AND FEES		\$	
POSTMARK OR DATE			

2/3/83

Townson MB Feb #2

(See Reverse)

CONSULT POSTMASTER FOR FEES		POSTAGE
OPTIONAL SERVICES		
RETURN RECEIPT SERVICE		
CERTIFIED FEE		
SPECIAL DELIVERY		
RESTRICTED DELIVERY		
SHOW TO WHOM AND DATE DELIVERED		
SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY		
SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY		
SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY		
TOTAL POSTAGE AND FEES	\$	

POSTMARK ON DATE 2/3/83

SENT TO Netty Peterson  
 STREET AND NO. 1001 13th St  
 P.O. STATE AND ZIP CODE Minneapolis, Minn 55402