

April 19, 1982



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APR 22 1982
OIL CONSERVATION DIVISION
SANTA FE

NSL - 1522
R/L 104 F
5-17-82

Mr. Joe D. Ramey, Director
New Mexico Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

Dear Mr. Ramey:

Subject: Mesa Petroleum Co.
Crawford Fed Com #1
1980' FSL & 460' FEL
Sec 30, T7S, R26E
Chaves County, New Mexico

F760 Gas

Application is hereby made for administrative approval of an unorthodox location for subject well due to the presence of an archaeological site at the preferred 1980' FSL & 660' FEL location.

Exhibit I is the Form C-102 showing mineral lease holder for the proposed proration unit, Exhibit II is the NMAS, Inc. archaeological report describing the alleged site, and Exhibit III is a land plat showing offset operators notified by certified mail of this request.

Expeditious handling of this request and issuance of appropriate administrative order is appreciated.

Sincerely,

MESA PETROLEUM CO.

R. E. Mathis
Regulatory Coordinator
Permian Basin Division

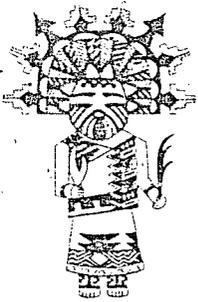
/pm

Attachment

XC: MEC, FILE, YATES PETROLEUM CORP, SUN

*5-3-82
Nanoy wood
Reservation
Site is a typical
& offers opportunity to
study arch not available
generally in area
ST Historic
office called*

*Rec'd
5-13-82
AR*



NMAS
New Mexico Archaeological Services, Inc.

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

16 April 1982

RECEIVED

APR 19 1982

MESA-PBD

Reconnaissance
Excavation
Analysis
Explanation
Curation

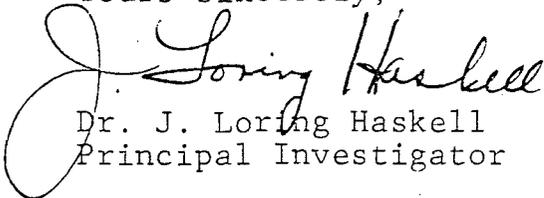
Mr. R.E. Mathis
Regulatory Coordinator
MESA PETROLEUM CO.
1000 Vaughn Building
Midland, Texas 79701

Dear Mr. Mathis:

Enclosed please find NMAS' Archaeological Clearance Report for MESA PETROLEUM CO.'s proposed Crawford Federal Well No. 1 and its access road in Chaves County, New Mexico. One archaeological site, (NMAS 5296, was recorded during this reconnaissance. NMAS is suggesting clearance for this project provided the archaeological site is avoided; please consult our report for its location and the suggested mitigation.

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

Yours sincerely,


Dr. J. Loring Haskell
Principal Investigator

Enclosure

cc: Mr. Lloyd Reed, MESA PETROLEUM CO., Roswell
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

MESA PETROLEUM CO.

Crawford Federal Well No. 1

Prepared

By

John C. Haight
Senior Research Assistant

Submitted

By

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

16 April 1982

Permit No. 81-NM-306

ABSTRACT

New Mexico Archaeological Services, Inc., representing MESA PETROLEUM CO., Midland, undertook an archaeological reconnaissance of Bureau of Land Management lands scheduled to be impacted by the construction of a drill location and its associated access road. The investigated areas are situated in Section 30, T7S, R26E, NMPM, Chaves County, New Mexico. One archaeological site, NMAS 5296, was recorded during the course of this reconnaissance. NMAS is suggesting clearance for MESA PETROLEUM CO.'s proposed work provided the archaeologically sensitive area is avoided.

Introduction

On 31 March 1982, New Mexico Archaeological Services, Inc., (NMAS), Carlsbad, undertook for MESA PETROLEUM CO., Midland, 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. Lloyd Reed, Regulatory Agent, MESA PETROLEUM CO., and administered by Dr. J. Loring Haskell, Principal Investigator, NMAS, Inc. This reconnaissance was undertaken by Mr. John C. Haight, Senior Research Assistant, NMAS.

Survey Technique

For this investigation, MESA PETROLEUM CO.'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 areas, 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.

Crawford Federal Well No. 1

Location

The proposed location will measure 400 X 400 ft on federal lands and will be situated 1980 ft from the south line and 660 ft from the east line of:

Section 30, T7S, R26E, NMPM, Chaves County, NM

Thus it will be situated in the:

NE $\frac{1}{4}$ SE $\frac{1}{4}$, Section 30, T7S, R26E, NMPM, Chaves County, NM

The associated access road will measure approximately 20 X 1300 ft and will be situated in the:

NE $\frac{1}{4}$ SE $\frac{1}{4}$, Section 30, T7S, R26E, NMPM, Chaves County, NM
SE $\frac{1}{4}$ NE $\frac{1}{4}$, Section 30, T7S, R26E, NMPM, Chaves County, NM

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

Terrain

MESA PETROLEUM CO.'s proposed location will be situated on the terrace-floodplain of the Pecos River. This feature is known geologically as the Orchard Park Terrace. Locally, this landform is overlain by low, aeolian-deposited, hummocks with drainage being to the east via sheetwash which is tributary to the Pecos. Areal soil individuals are composed of loose- to moderately-compacted sandy clay loams and loamy sands which lack lithic inclusions. Pedons belong to the Ustic Torriorthent and Typic Torripsamment subgroups and their intergrades.

Floristics

Areal soils host a dominant floral overstory of Prosopis juliflora with less frequent occurrences of Yucca glauca, and Atriplex canescens. Associated forbs include Gutierrezia sarothrae, Perezia nana, Mentzelia sp., Verbena sp., and Lesquerella sp. The Gramineae is represented by Sporobolus airoides, Tridens pulchellus, Muhlenbergia porterii, and Andropogon sp.

Cultural Resources

One archaeological site, NMAS 5296, was recorded during the course of this reconnaissance.

NMAS 5296

Location: S $\frac{1}{2}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$, Section 30, T7S, R26E, NMPM, Chaves County,
 NM
 W $\frac{1}{2}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$, Section 30, T7S, R26E, NMPM, Chaves County,
 NM

UTM: Zone 13, N3,726,360; E562,010

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

Ownership: Bureau of Land Management

Dimension of Resources: 198 X 351 m

Typological Designation: Special Activities Zone

Temporality: Jornada Mogollon

Nature of Cultural Resources: NMAS 5296, a large special activities zone, is situated on the Orchard Park Terrace. This landform coextensive with the floodplain overlooks the Pecos River to the east. Resources consist of chert and quartzite cores and exhausted cores, chert quartzite, and chalcedony primary- secondary- tertiary decortication flakes, one Roswell Brown ware potsherd, chert utilized flakes, and light amorphous scatters of burned limestone cobbles and gravels. Resources are both concentrated and scattered. Specific tasks conducted at this site include stone-tool reduction and manufacture, finishing of stone tools, cooking-related activities, and probable hide working. Owing to the presence of ceramics, temporal and cultural parameters have been established at sometime during the Jornada Mogollon (A.D. 950-1350).

NMAS 5296 was probably used by social units as a hunting and gathering station, i.e., a camp where an individual or social group finished stone tools for hunting and food processing purposes. Actual usage was probably measureable in terms of several days.

Further investigation of this site is important for a number of reasons. Firstly, analysis of the lithic detritus should yield data pertaining to the methods and techniques of stone tool reduction and manufacture. Secondly, sub-surface remains may yield further temporal and cultural data as well as site boundaries. This information should further our understanding of special activities zones in the Middle Pecos River Valley.

Recommendations

NMAS is suggesting clearance for MESA PETROLEUM's proposed location provided the archaeological site is avoided. This can be accomplished by shifting the location (1980 FSL and 660 FEL) 200 ft to the east, i.e., to 1980 FSL and 460 FEL. A section of fence will be constructed on the west and northwest boundaries of the suggested 400 X 400 ft location prior to the initiation of construction-related activities (Fig. 1). This suggestion is amenable to MESA PETROLEUM CO. Fences are to be left intact during all phases of pad construction, drilling activities, and setting up and removal of the rig. Clearance, of course, is granted by the Bureau of Land Management. If additional cultural resources are encountered, the BLM and NMAS should be notified immediately. Sandy settings are notorious for covering and uncovering cultural properties.

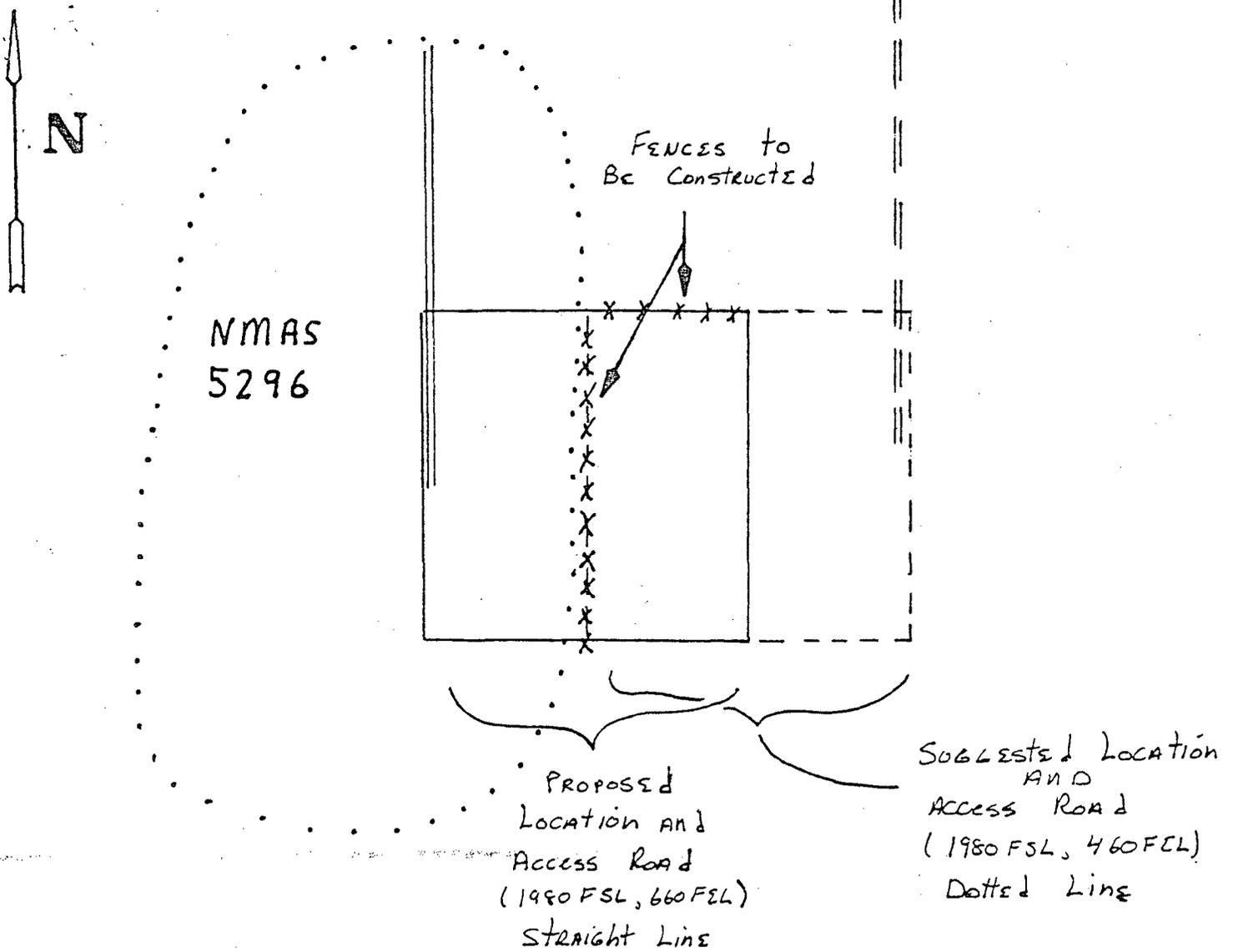
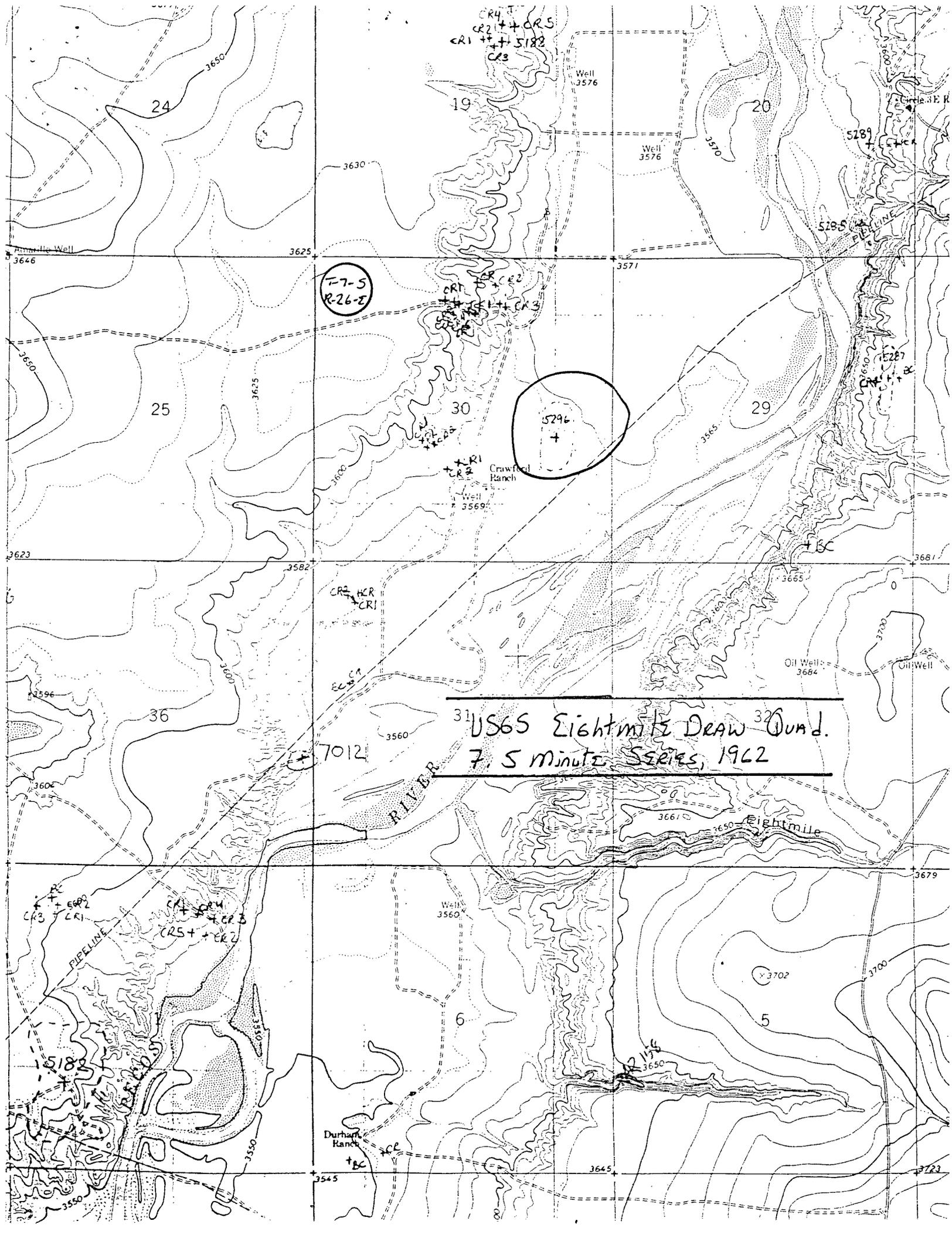


Fig. 1. Schematic representation showing MESA PETROLEUM CO.'s proposed Crawford Federal Well No. 1 (1980 FSL, 660 FEL) vis-a-vis NMAS 5296. NMAS suggests shifting the location east 200 ft, i.e., to 1980 FSL, 460 FEL. A section of fence will be constructed on the west and northwest boundaries of the suggested 400 X 400 ft location prior to the initiation of construction-related activities. Fences are to remain intact during pad construction, drilling activities, and setting up and removal of the rig.



CR4 + CR5
CR1 + 5182
CR3

24

19

20

5289

5285
PIPELINE

F-7-5
R-26-8

CR1 + CR2
CR3

25

30

29

5296
+

Crawford
Ranch

Well
3569

5287
CR1 + CR2

CR1
CR2
CR3

Oil Well
3664

Oil Well

36

31

32

USGS Eightmile Draw Quad.
7.5 minute Series, 1962

7012

RIVER

Eightmile

CR3 + CR1
5692

CR4 + CR3
CR5 + CR2

Well
3560

3702

5182

Durham
Ranch

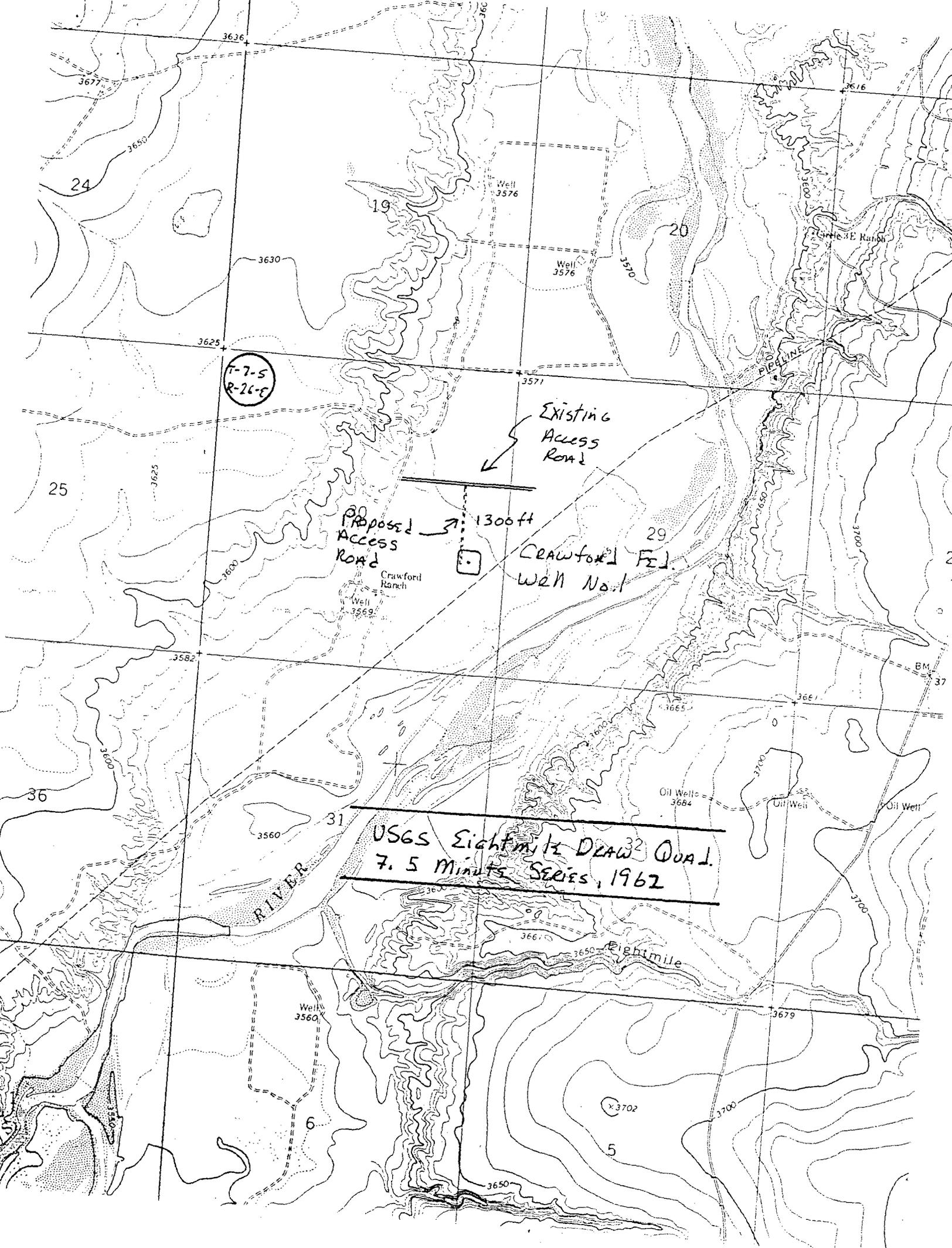
3650

3550

3545

3645

3723



T-7-5
R-26-C

Existing
Access
Road

Proposed
Access
Road

1300ft

Crawford Fed
Well No. 1

USGS Eightmile Draw³² Quad.
7.5 Minute Series, 1962

RIVER

Eightmile

24

19

20

25

29

36

31

5

3636

3677

3650

3630

3625

3625

3600

3582

3600

3560

Well
3560

6

Well
3576

Well
3576

3571

Well
3569

Oil Wells
3684

Oil Well

Oil Well

3661

3600

3700

3700

3679

3650

x3702

3700

3700

BM
37

Crawford SE Ranch

PIPELINE

All distances must be from the outer boundaries of the Section.

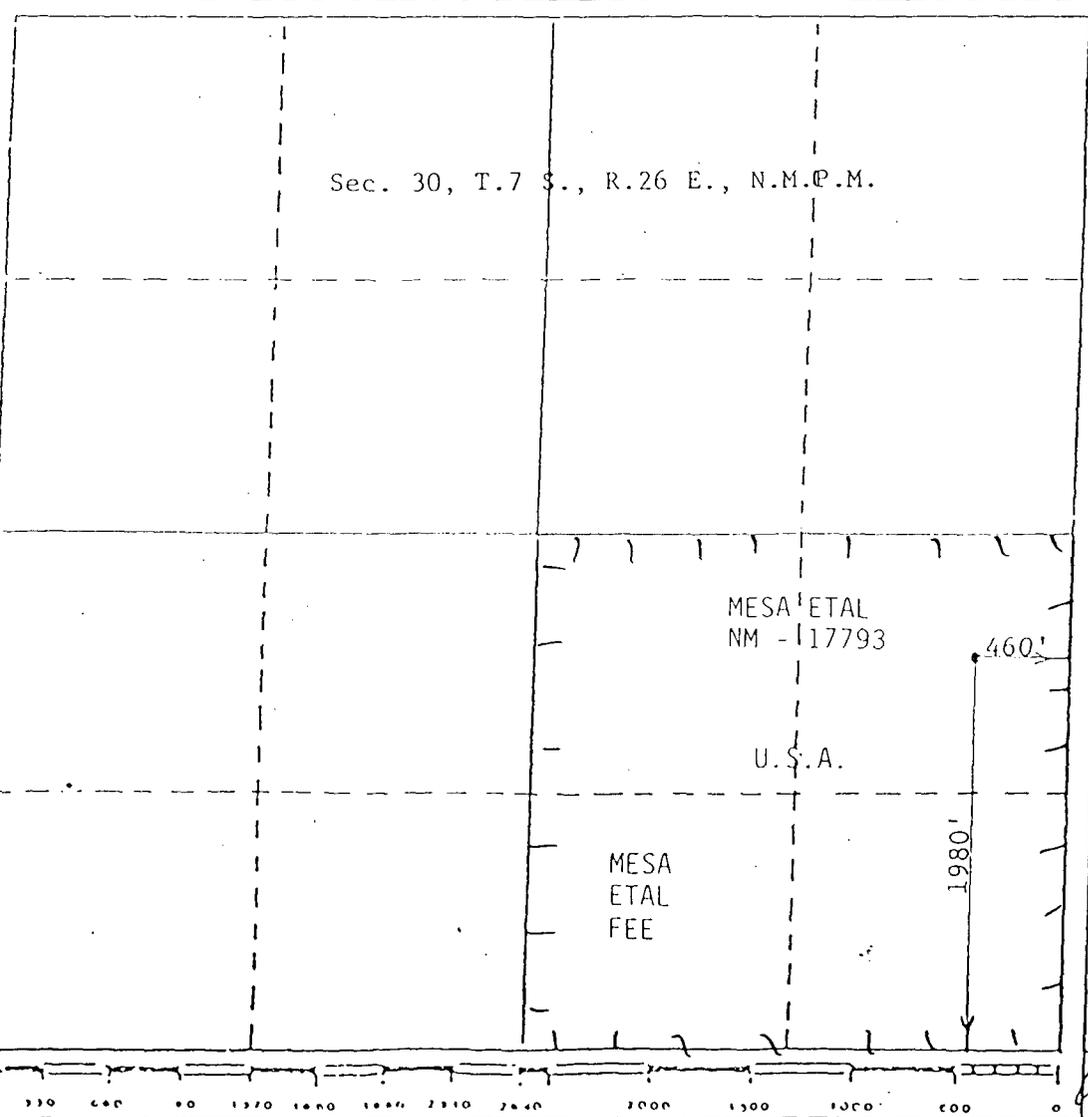
Operator Mesa Petroleum Co.		Lease Crawford Federal		Well No. #1
Unit Letter I	Section 30	Township 7 South	Range 26 East	County Chaves
Actual Postage Location of Well: 460 feet from the East line and 1980 feet from the South line				
Ground Level Elev. 3569	Producing Formation ABO	Pool UNDESIGNATED		Dedicated Acreage: SE/4 160 Acres

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- 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 COMMUNITIZATION IN PROGRESS

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 Division.



CERTIFICATION

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

R. E. Mathis

Name	R. E. MATHIS
Position	REGULATORY COORDINATOR
Company	MESA PETROLEUM COMPANY
Date	4-6-82

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.

JOHN D. JACQUE
REGISTERED PROFESSIONAL ENGINEER
STATE OF NEW MEXICO
6290

Date Surveyed: April 1, 1982

John D. Jacqué, P.E. & L.S.

Certificate No. 6290



STATE OF NEW MEXICO
DEPARTMENT OF
FINANCE AND ADMINISTRATION
STATE PLANNING DIVISION

MAY 06 1982

BRUCE KING
GOVERNOR
KATHLEEN R. MARR
SECRETARY

505 DON GASPAR AVENUE
SANTA FE, NEW MEXICO 87503
(505) 827-2073
(505) 827-5191
(505) 827-2108

ANITA HISENBERG
DIRECTOR

JOE GUILLEN
DEPUTY DIRECTOR

May 4, 1982

R. L. Stamets
Technical Support Chief
Oil and Conservation Division
P/ O. Box 2088
Santa Fe, New Mexico 87501

RE: Archeological site NMAS 5296 and relocation of drill site:
Crawford Federal Com. #1, Mesa Petroleum Company
1980 FSL and 460 FEL
Sec. 30: T7S, R26E
Chaves County, New Mexico

Dear Mr. Stamets:

This is to verify our telephone conversation regarding relocation of Crawford Federal Com. #1.

After consultation with Ann Ramage, BLM archeologist for the Roswell district, it appears that relocation of the drill site is necessary, to avoid damaging the archeological site, NMAS 5296.

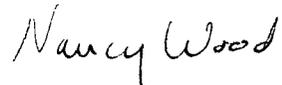
NMAS 5296 is a potentially significant prehistoric resource. It is an extensive site with a large number of surface artifacts. There appears to be a strong possibility of encountering subsurface cultural deposits which may also yield temporal information important to interpretation of regional prehistory. Many of the recorded prehistoric sites for this area of New Mexico are small, non-dateable surface manifestations. At present, large gaps exist in the archeological record. Hence preservation of larger prehistoric sites such as NMAS 5296 is important.

According to both the survey report and the BLM archeologist, NMAS 5296 will be protected if the drill site is moved 200 feet to the east. The recommendations suggested by the archeological contractors (relocation and fence construction) appear to appropriate mitigation strategy.

R. L. Stamets
May 4, 1982
Page Two.

If you have any other questions regarding this particular site or the cultural resource review process, please give me a call at 827-2108. I'll be glad to help as needed.

Sincerely,

A handwritten signature in cursive script that reads "Nancy Wood".

Nancy E. Wood
Staff Archeologist
Historic Preservation Bureau

NEW:jmg