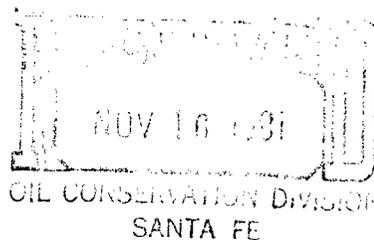




NSL-1459

November 12, 1981

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



NSL-1459
Rule 104 F
Waiting Over
Immediate

Dear Mr. Ramey;

Subject: Mesa Petroleum Co.
Alkali Federal #7
2280 FNL & 1680' FEL
Sec 22, T5S, R25E
Chaves County, New Mexico

under Abo Gas

Application is hereby made for administrative approval of an unorthodox location for subject well due to the presence of archaeological material and topographical constraints at the possible orthodox locations in the northeast quarter 160 acre proration unit to be assigned to this well.

Exhibit I is an area land map showing offset operators, Exhibit II is the form C102 showing mineral ownership, Exhibit III is the archaeological report outlining the necessity for moving the location as does Exhibit IV which is a topographic map of the area.

Offset Operators/Lease Holders have been provided a copy of this letter by Certified Mail.

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

Yours very truly,

Mesa Petroleum Co.

R.E. Mathis
Regulatory Coordinator
Permian Basin Division

Attachments (Exhibits I,II,III,IV)

xc: ABO PET, M. SPEAR, PLE, MTS, YATES PET

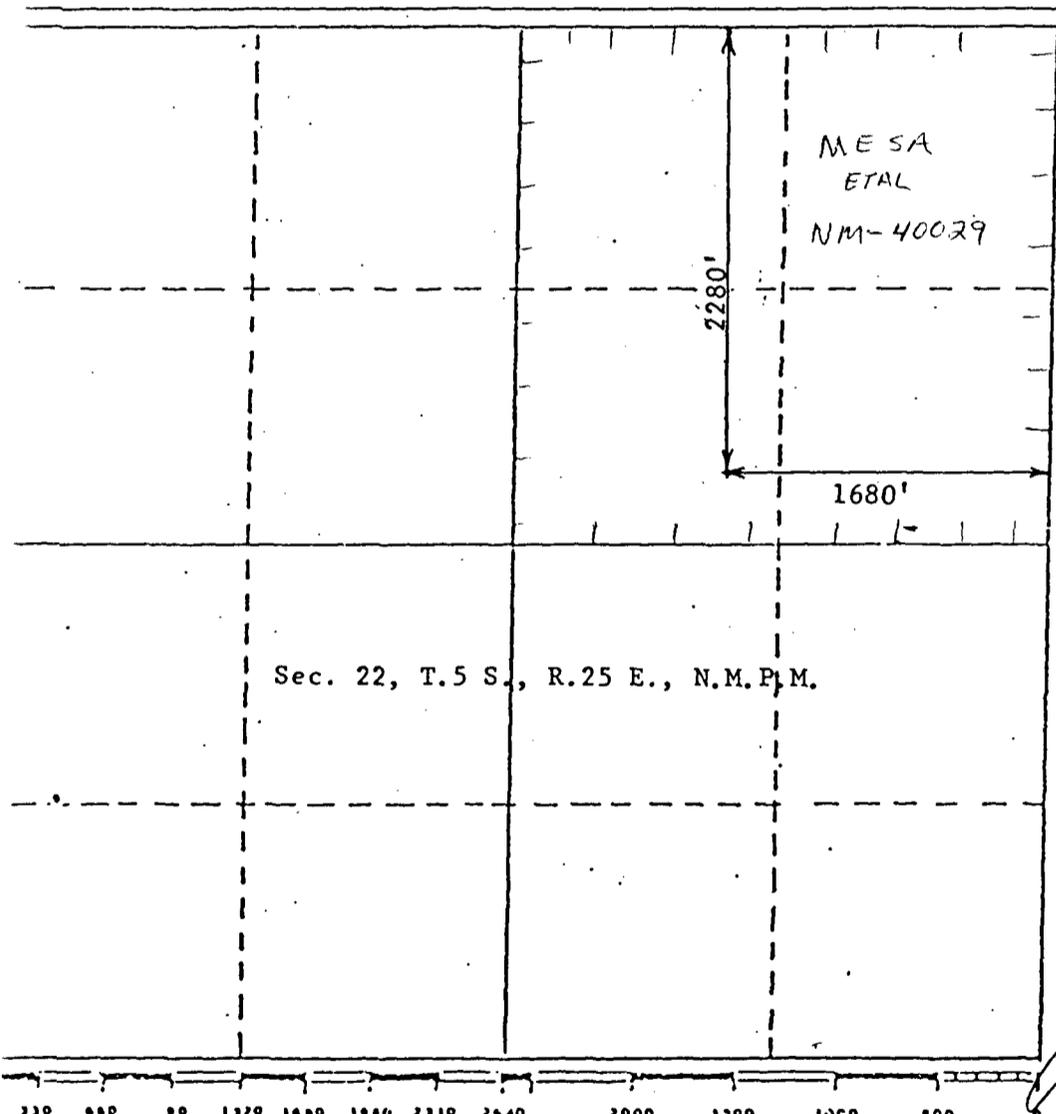
All distances must be from the outer boundaries of the Section.

Owner Mesa Petroleum Co.		Lease Alkali Federal		Well No. 7
Letter G	Section 22	Township 5 South	Range 25 East	County S. Chaves
Location of Well: 2280 feet from the North line and 1680 feet from the East line				
Surface Level Elev. 3696	Producing Formation ABO	Pool UNDESIGNATED		Dedicated Acreage: NE 4 160 Acres

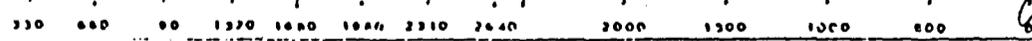
1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is 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 Division.



CERTIFICATION	
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.	
<i>R. E. Mathis</i>	
Name	R. E. MATHIS
Position	REGULATORY COORDINATOR
Company	MESA PETROLEUM CO.
Date	11-12-81
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.	
Date Surveyed	October 28, 1981
Registered Professional Engineer and Land Surveyor	6290
John D. Jaquess	6290



Archaeological Clearance Report

for

MESA PETROLEUM CO.

Alkali Federal Well No. 7

Prepared

By

John C. Haight
Research Assistant

Submitted

By

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

2 November 1981

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 22, T5S, R25E, NMPM, Chaves County, New Mexico. Two archaeological sites, NMAS 5208 and NMAS 5209, and eight isolated cultural resources (CR) were recorded during the course of this reconnaissance. NMAS is suggesting clearance for MESA PETROLEUM's proposed work provided the archaeological sites are avoided.

Introduction

On 26 October 1981, 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., Roswell, and administered by Dr. J. Loring Haskell, Principal Investigator, NMAS, Inc. This reconnaissance was undertaken by Mr. John C. Haight, 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 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.

Alkali Federal Well No. 7

Location

The proposed location will measure 400 X 400 ft on federal lands and will be situated 2180 ft from the north line and 1780 ft from the east line of:

Section 22, T5S, R25E, NMPM, Chaves County, NM

Thus it will be situated in the:

SW $\frac{1}{4}$ NE $\frac{1}{4}$, Section 22, T5S, R25E, NMPM, Chaves County, NM

The associated access road will measure approximately 20 X 3500 ft and will be situated in the:

NW $\frac{1}{4}$ NW $\frac{1}{4}$, Section 22, T5S, R25E, NMPM, Chaves County, NM
 SW $\frac{1}{4}$ NW $\frac{1}{4}$, Section 22, T5S, R25E, NMPM, Chaves County, NM
 SE $\frac{1}{4}$ NW $\frac{1}{4}$, Section 22, T5S, R25E, NMPM, Chaves County, NM
 SW $\frac{1}{4}$ NE $\frac{1}{4}$, Section 22, T5S, R25E, NMPM, Chaves County, NM

Map Reference: USGS COTTONWOOD DRAW: QAUDRANGLE, 7.5 Minute Series, 1967.

Terrain

MESA PETROLEUM's proposed location will be situated on a gently sloping plain which is broken by limestone and gypsum eminences on the north and west. Areal sheetwash is heavy with drainage being to the east and tributary to Cocklebur Draw. Soil individuals are composed of moderately compacted, calcareous, silt loams and sandy clay loams. The coeval surface is marked by a scree of quartzite, chert, and limestone cobbles and gravels. Pedons belong to the Typic Palerothid and Typic Gypsiorthid subgroups.

Floristics

Areal soils host a sparse overstory of Prosopis juliflora, Yucca glauca, Condaia ericoides, and Acacia greggii. Attendant forbs include Gutierrezia sarothrae, Coldenia canescens, Senecio longilobus, Croton sp., and Cirsium sp. The Gramineae, represented by Hilaria mutica, Bouteloua spp., Scleropogon brevifolius, Tridens pulchellus, and Muhlenbergia porteri, is the dominant component of the floral community.

Cultural Resources

Two archaeological sites, NMAS 5208 and NMAS 5209, and eight isolated cultural resources were recorded during the course of this reconnaissance. CR 1 consists of a quartzite core at a point approximately 1900 ft west of the location on the proposed access road. It is situated in the:

NW $\frac{1}{4}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$ NW $\frac{1}{4}$, Section 22, T5S, R25E, NMPM, Chaves County, NM

UTM: Zone 13, N3,746,600; E563,980

Map Reference: USGS COTTONWOOD DRAW QUADRANGLE, 7.5 Minute Series, 1967.

CR 2 consists of a quartzite biface at a point approximately 1400 ft west of the location on the proposed access road. It is situated in the:

SW $\frac{1}{4}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$ NW $\frac{1}{4}$, Section 22, T5S, R25E, NMPM, Chaves County, NM

UTM: Zone 13, N3,746,570; E564,140

Map Reference: USGS COTTONWOOD DRAW QUADRANGLE, 7.5 Minute Series, 1967.

CR 3 consists of a quartzite primary decortication flake and two quartzite cores at a point approximately 1300 ft west of the location on the proposed access road. It is situated in the:

SW $\frac{1}{4}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$ NW $\frac{1}{4}$, Section 22, T5S, R25E, NMPM, Chaves County, NM

UTM: Zone 13, N3,746,560; E564,180

Map Reference: USGS COTTONWOOD DRAW QUADRANGLE, 7.5 Minute Series, 1967.

CR 4 consists of a chert core at a point approximately 1200 ft west of the location and 15 ft south of the proposed access road. It is situated in the:

SE $\frac{1}{4}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$ NW $\frac{1}{4}$, Section 22, T5S, R25E, NMPM, Chaves County, NM

UTM: Zone 13, N3,746,540; E564,210

Map Reference: USGS COTTONWOOD DRAW QUADRANGLE, 7.5 Minute Series, 1967.

CR 5 consists of a chert secondary decortication flake and two quartzite primary decortication flakes at a point approximately 100 ft west of the location on the proposed access road. It is situated in the:

SE $\frac{1}{4}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$ NW $\frac{1}{4}$, Section 22, T5S, R25E, NMPM, Chaves County, NM

UTM: Zone 13, N3,746,560; E564,240

Map Reference: USGS COTTONWOOD DRAW QUADRANGLE, 7.5 Minute Series, 1967.

CR 6 consists of two quartzite primary decortication flakes and one chert primary decortication flake at a point approximately 700 ft west of the location on the proposed access road. It is situated in the:

SW $\frac{1}{2}$ NW $\frac{1}{2}$ SW $\frac{1}{2}$ NE $\frac{1}{2}$, Section 22, T5S, R25E, NMPM, Chaves County, NM

UTM: Zone 13, N3,746,540; E564,350

Map Reference: USGS COTTONWOOD DRAW QUADRANGLE, 7.5 Minute Series, 1967.

CR 7 consists of a quartzite core at a point approximately 500 ft west of the location on the proposed access road. It is situated in the:

SE $\frac{1}{2}$ NW $\frac{1}{2}$ SW $\frac{1}{2}$ NE $\frac{1}{2}$, Section 22, T5S, R25E, NMPM, Chaves County, NM

UTM: Zone 13, N3,746,510; E564,400

Map Reference: USGS COTTONWOOD DRAW QUADRANGLE, 7.5 Minute Series, 1967.

CR 8 consists of four quartzite cores and one granite primary decortication flake at a point approximately 100 ft west of the location on the proposed access road. It is situated in the:

NW $\frac{1}{2}$ SE $\frac{1}{2}$ SW $\frac{1}{2}$,NE $\frac{1}{2}$, Section 22, T5S, R25E, NMPM, Chaves County, NM

UTM: Zone 13, N3,746,480; E564,540

Map Reference: USGS COTTONWOOD DRAW QUADRANGLE, 7.5 Minute Series, 1967.

Albeit referred to as isolated cultural occurrences (CR), recorded cultural properties collectively constitute a very light scatter. Criteria presently employed by NMAS, pertaining to site taxonomy, precludes the assignment of these remains to either of NMAS' two minimal types viz., the occupation zone or the task locus. (See NMAS' definitions at the end of this report.)

NMAS 5208

Location: NE $\frac{1}{2}$ NE $\frac{1}{2}$ SW $\frac{1}{2}$ NW $\frac{1}{2}$, Section 22, T5S, R25E, NMPM, Chaves County, NM

UTM: Zone 13, N3,746,700; E563,860

Map Reference: USGS COTTONWOOD DRAW QUADRANGLE, 7.5 Minute Series, 1967.

Ownership: Bureau of Land Management Administration

Dimension of Resources: 15 X 15 m

Typological Designation: Task Locus

Temporality: Unknown

Nature of Cultural Resources: NMAS 5208, a small task locus, is situated on the north-facing slope of a linear-shaped projection of the ridge. The site overlooks a small drainage to the north. Resources consist of a light concentration of quartzite cores, chert and quartzite primary and secondary decortication flakes, and chert and quartzite spalls. This site has been termed a task locus owing to the concentration of cultural detritus. Temporal and cultural parameters cannot be established because of the absence of diagnostic artifacts.

Further investigation of this site should yield valuable information relating to the site's function and techniques of stone-tool manufacture. This should further our understanding of areal archaeology and the composition of task loci.

NMAS 5209

Location: NE $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$, Section 22, T5S, R25E, NMPM, Chaves County, NM

UTM: Zone 13, N3,746,410; E564,490

Map Reference: USGS COTTONWOOD DRAW QUADRANGLE, 7.5 Minute Series, 1967.

Ownership: Bureau of Land Management Administration

Dimension of Resources: 122 X 122 m

Typological Designation: Task Locus

Temporality: Unknown

Nature of Cultural Resources: NMAS 5209, a task locus, is situated on a saddle-like feature as well as the crest of a locally prominent eminence which overlooks Cacklebur Draw to the east. Overall, this

area is subject to a high level of ephemeral sheetwash. Resources consist of small concentrations of chert and quartzite primary and secondary decortication flakes, spalls of these materials, quartzite and chert cores, quartzite hammerstones, amorphous scatters of burned- and fire-cracked limestone cobbles and gravels, and a cairn-like feature built of limestone slabs. This feature, situated on a small knoll, measures 2 m in diameter. Its walls have uniformly slumped toward the west. Features similar to this one are known elsewhere in the immediate vicinity viz., NMAS 5151. While direct associations are lacking, they are thought to have been used for storage purposes. Temporality and authorship are a moot point; however, to the south, they occur in Jornada Mogollon (A.D. 950-1350) contexts.

Further investigation of this site should help to illuminate the nature of flaked-tool manufacture as well as the function of the cairn-like feature.

Recommendations

NMAS is suggesting clearance for MESA PETROLEUM's proposed location provided the archaeological sites are avoided. NMAS 5208 is situated approximately 50 ft east of the proposed access road and hence will not be impacted by construction-related activities (Fig. 1). As for NMAS 5209, the proposed location will impact the site at its southwest corner. To avoid the site, NMAS suggests that the location be shifted 100 ft south and 100 ft east, i.e., 2280 FNL and 1680 FEL, Section 22, T5S, R25E (Fig. 1). MESA is amenable to the proposed change. Clearance, of course, is granted by the Bureau of Land Management. If additional cultural resources are encountered during construction, the BLM and NMAS should be notified immediately. Archaeologically sensitive areas are to be avoided by men and materiel.

N

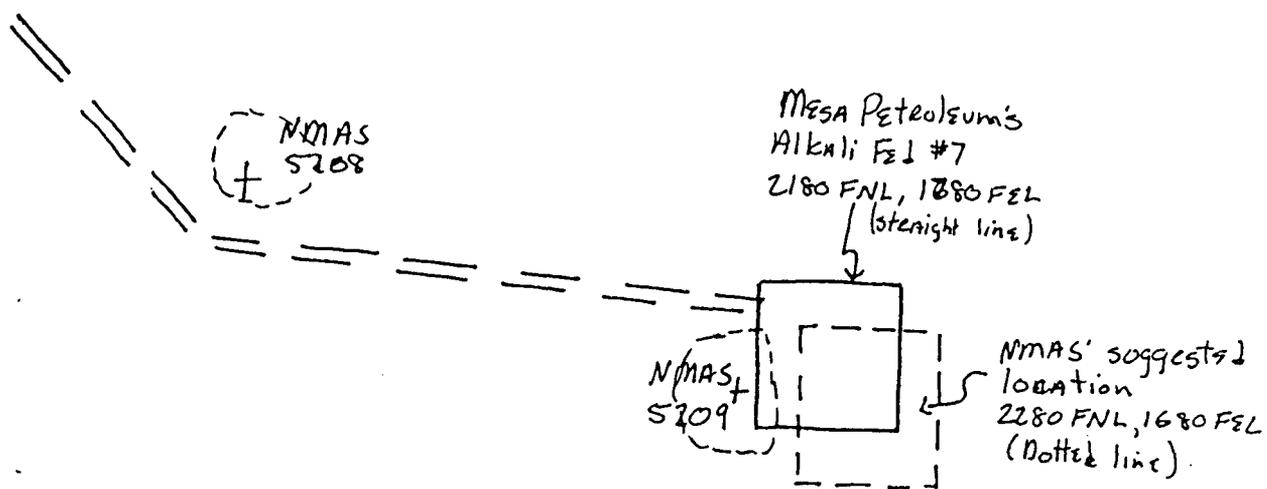
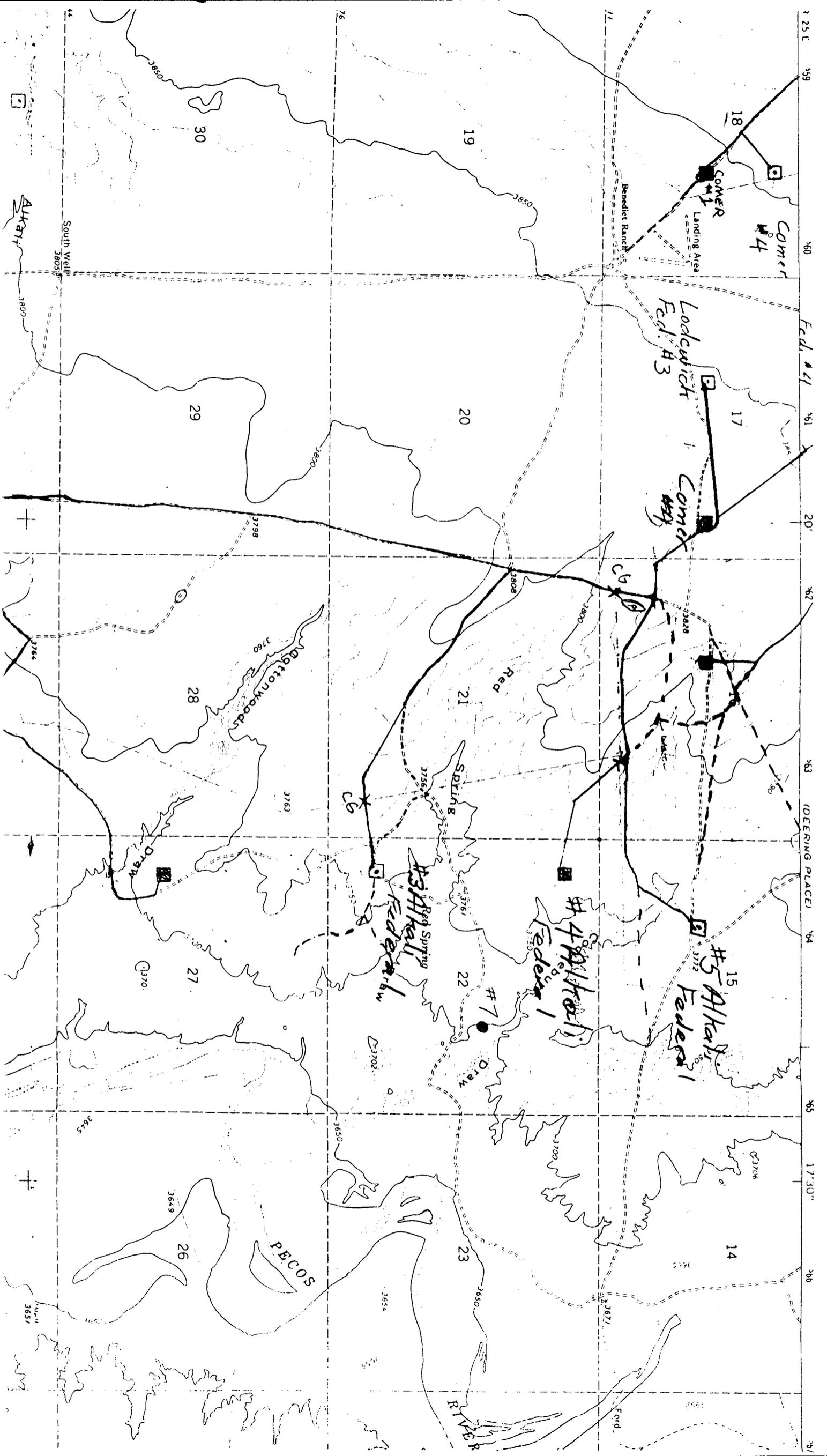


Fig. 1 Schematic representation showing MESA PETROLEUM's Alkali Federal Well No. 7 (2180 FNL and 1780 FEL) and its access road vis à vis N/MAS 5208 and N/MAS 5209. N/MAS suggests that the proposed location be shifted 100 ft south and 100 ft east, i.e., 2280 FNL and 1680 FEL, Section 22, T5S, R25E, (broken line) in order to avoid N/MAS 5209.



106° 25' E 106° 30' E 106° 35' E 106° 40' E 106° 45' E 106° 50' E 106° 55' E 107° 00' E

36° 17' 30" N 36° 18' 30" N 36° 19' 30" N 36° 20' 30" N

Fed. #41

20'

62'

63'

DEERING PLACE

64'

65'

17° 30"

66'

76'

Comer #4

Comer #1
Landing Area

Lodewich
Fed. #3

Comer #2

CA

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3800

3808

3800

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#5 Alkali
Federal #1

#4 Alkali
Federal #1

Hillkali
Federal #1

#7

Draw

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3600

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