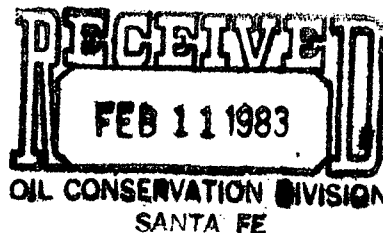




207 SOUTH FOURTH STREET
ARTESIA, NEW MEXICO 88210
TELEPHONE (505) 748-1331



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

February 9, 1983

*NSL 1658
Rule 104 F
Immediate
No offset*

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

Re: Duncan "LH" Federal #2
2080' FSL and 2130' FEL
Sec. 3-T8S-R25E
Chaves County, New Mexico

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 1980' FSL and 1980' FEL to an archaeological site NMAS #5469. Enclosed please find a copy of the archaeological report from New Mexico Archaeological Services. Also, enclosed is a lease map showing that all offsetting lease acreage is owned by Yates Petroleum Corporation.

Formations we expect to drill through are: San Andres, Glorieta, Fullerton, Abo. The well will be an Abo test.

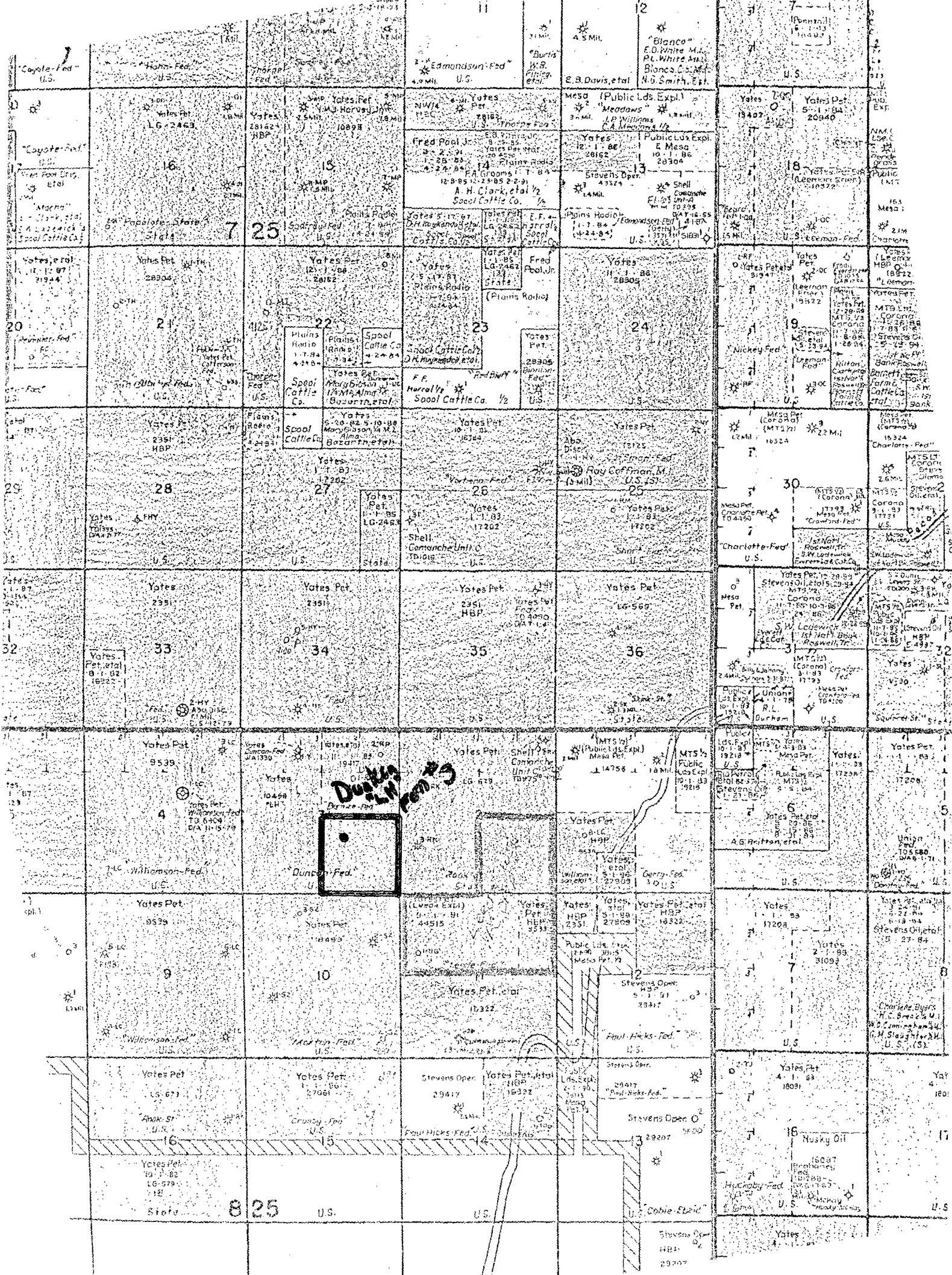
Thank you for your help in this matter.

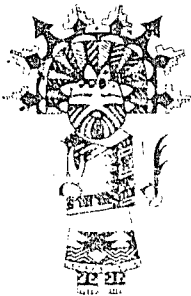
Sincerely,

Ken Beardemphl
Regulatory Agent
YATES PETROLEUM CORPORATION

KB/dw

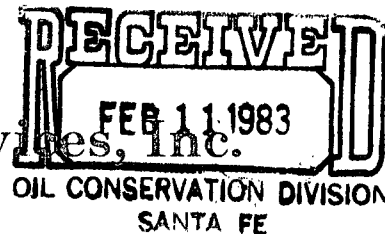
enclosures





NMAS
New Mexico Archaeological Services, Inc.

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



Reconnaissance
Excavation
Analysis
Explanation
Curation

4 February 1983

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

Dear Mr. Beardemphl:

Enclosed please find NMAS' Archaeological Clearance Report for DUNCAN "LH" Federal Well No. 2 and its associated access road in Chaves County, New Mexico. One archaeological site (NMAS 5469) was recorded during this reconnaissance. NMAS is suggesting clearance for this project provided the archaeological site is avoided; please consult our report for the suggested mitigation.

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

Yours sincerely,

J. Loring Haskell
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

Duncan "LH" 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

4 February 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 3, T8S, R25E, NMPM, Chaves County, New Mexico. One archaeological site (NMAS 5469) was recorded during this reconnaissance. Clearance is suggested provided the archaeological site is avoided.

Introduction

On 30 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. Ken Beardemphl, 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.

Duncan "LH" Federal Well No. 2

Location

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

Section 3, T8S, R25E, NMPM, Chaves County, NM

Thus it will be situated in the:

NW $\frac{1}{4}$ SE $\frac{1}{4}$, Section 3, T8S, R25E, NMPM, Chaves County, NM

The associated access road will measure 20 X 2800 ft and will be situated in the:

NW $\frac{1}{4}$ SE $\frac{1}{4}$, Section 3, T8S, R25E, NMPM, Chaves County, NM

NE $\frac{1}{4}$ SW $\frac{1}{4}$, Section 3, T8S, R25E, NMPM, Chaves County, NM

SE $\frac{1}{4}$ SW $\frac{1}{4}$, Section 3, T8S, R25E, NMPM, Chaves County, NM

SW $\frac{1}{4}$ SW $\frac{1}{4}$, Section 3, T8S, R25E, NMPM, Chaves County, NM

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

Terrain

YATES PETROLEUM CORPORATION's proposed location will be situated southeast of Cocklebur Lakes on the lower shoulder of a locally prominent ridge system which overlooks a crescentically-shaped subsidence structure to the north and west. Minor hummocks, measuring to 0.50 m in height, characterize the associated hillside, where the landform is subject to intensive sheetwash activity. Runoff from this activity is to the west and north via a series of minor gullies. To the northwest, a large subsidence basin is overlain by a thick deposit of alluvium, within which, often fissure-like solution cavities have formed. Areal soils vary according to variations in the local terrain. Camborthid₀ soils and their intergrades are found on the hillside, harboring plentiful quartzite cobbles and gravels, as well as calcareous inclusions. As for the subsidence basin, soil individuals belong to the Typic Torriorthent subgroup, and exhibit considerable puddling and scaling. Additionally, lithic inclusions are generally absent among these latter soils.

Floristics

Local soils support a limited floral overstory of Prosopis juliflora and Yucca glauca. Attendant forbs are also sparse, and include Lepidium

sp. and Gutierrezia sarothrae. Most abundant are the grasses, which are represented by Muhlenbergia porterii, Hilaria mutica, Scleropogon brevifolius, Tridens pulchellus, and Bouteloua sp. Sporobolus airoides is the common grass within the structural depression and occurs in association with Prosopis juliflora. Prosopis within the depression, often occurs in the form of a low, but dense thicket.

Cultural Resources

During the course of this reconnaissance, one archaeological site (NMA 5469) was recorded as were three isolated cultural occurrences (CR).

Isolated Cultural Occurrences (CR)

CR 1, consisting of one quartzite primary decortication flake, is located at a point 80 ft east of the junction of the access road with the Transwestern Pipeline Company easement. It is situated in the:

SW $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$, Section 3, T8S, R25E, NMPM, Chaves County, NM

UTM: Zone 13, N3,722,900; E556,310

Map Reference: USGS COYOTE DRAW QUADRANGLE, 7.5 Minute Series, 1963.

CR 2, consisting of one quartzite primary decortication flake, one chert tertiary decortication flake and one chert secondary decortication flake, is located at a point 35 ft northeast of the center stake. It is located in the:

NW $\frac{1}{4}$ SE $\frac{1}{4}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$, Section 3, T8S, R25E, NMPM, Chaves County, NM

UTM: Zone 13, N3,723,060; E556,910

Map Reference: USGS COYOTE DRAW QUADRANGLE, 7.5 Minute Series, 1963.

CR 3, consisting of one quartzite secondary decortication flake, is located at a point 75 ft east of the center of the location. It

is situated in the:

NW $\frac{1}{4}$ SE $\frac{1}{4}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$, Section 3, T8S, R25E, NMPM, Chaves County, NM

UTM: Zone 13, N3,723,050; E556,930

Map Reference: USGS COYOTE DRAW QUADRANGLE, 7.5 Minute Series, 1963.

NMAS 5469

Location: NW $\frac{1}{4}$ SE $\frac{1}{4}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$, Section 3, T8S, R25E, NMPM, Chaves County, NM

UTM: Zone 13, N3,722,990; E556,930

Map Reference: USGS COYOTE DRAW QUADRANGLE, 7.5 Minute Series, 1963.

Ownership: Bureau of Land Management

Dimension of Resources:

Typological Designation: Task Locus

Temporality: Unknown

Nature of Cultural Resources: NMAS 5469, a large task locus, is situated

on the lower shoulder of a locally prominent ridge system which serves to form the rim of a well-developed crescentically-shaped subsidence structure, or doline. Minor hummocks demarcate the coeval surface of elevated areas. Sheetwash is intense in these areas. As for the doline, it is overlain by a thick deposit of alluvium. Observed cultural properties include frequent quartzite primary- secondary- and tertiary decortication flakes, quartzite utilized flakes, quartzite cores and exhausted cores, a quartzite chopper, numerous quartzite hammerstones, several quartzite bifaces, and several piles of quartzite cobbles assembled by the knapper for reduction purposes. Chert debitage, while present, is not common. Observed cultural properties of this material include primary- secondary- and tertiary decortication flakes. Several concentrations were noted; however, most cultural properties at this site occur as a light and extensive scatter. At a point

near the interface of the alluvial portion of the doline and the lower edge of the rim area, much of the cultural detritus has been rolled owing to the effects of gullying and sheetwash. This site has been termed a task locus because of the occurrence of several concentrations. Temporalty and authorship remain unknown owing to the absence of diagnostic artifacts. Occupancy at any one time was brief; however judging by the amount of cultural detritus, repeated usage over a considerable period of time seems certain.

Further work at this site should entail systematic collection and sub-surface testing of the site as well as a thorough study of the lithic remains.

Recommendations

NMAS suggests for YATES PETROLEUM CORPORATION's proposed Duncan "LH" Federal Well No. 2 *provided the archaeological site is avoided. This can be accomplished by shifting the location 150 ft to the west and 100 ft to the north, i.e., 2130 FEL, 2080 FSL, Section 3, T8S, R25E, NMPM, Chaves County, New Mexico. (Fig. 1).* This area has been reconnoitered and is free of cultural properties. NMAS further suggests *that the east and south sides of the location be fenced in order to protect the site from trucks associated with setting up the rig and taking it down. Men and materiel are to avoid the site during all phases of the project.* If additional cultural resources are encountered during construction, the BLM and NMAS should be notified immediately. Clearance, of course, is granted by the Bureau of Land Management.

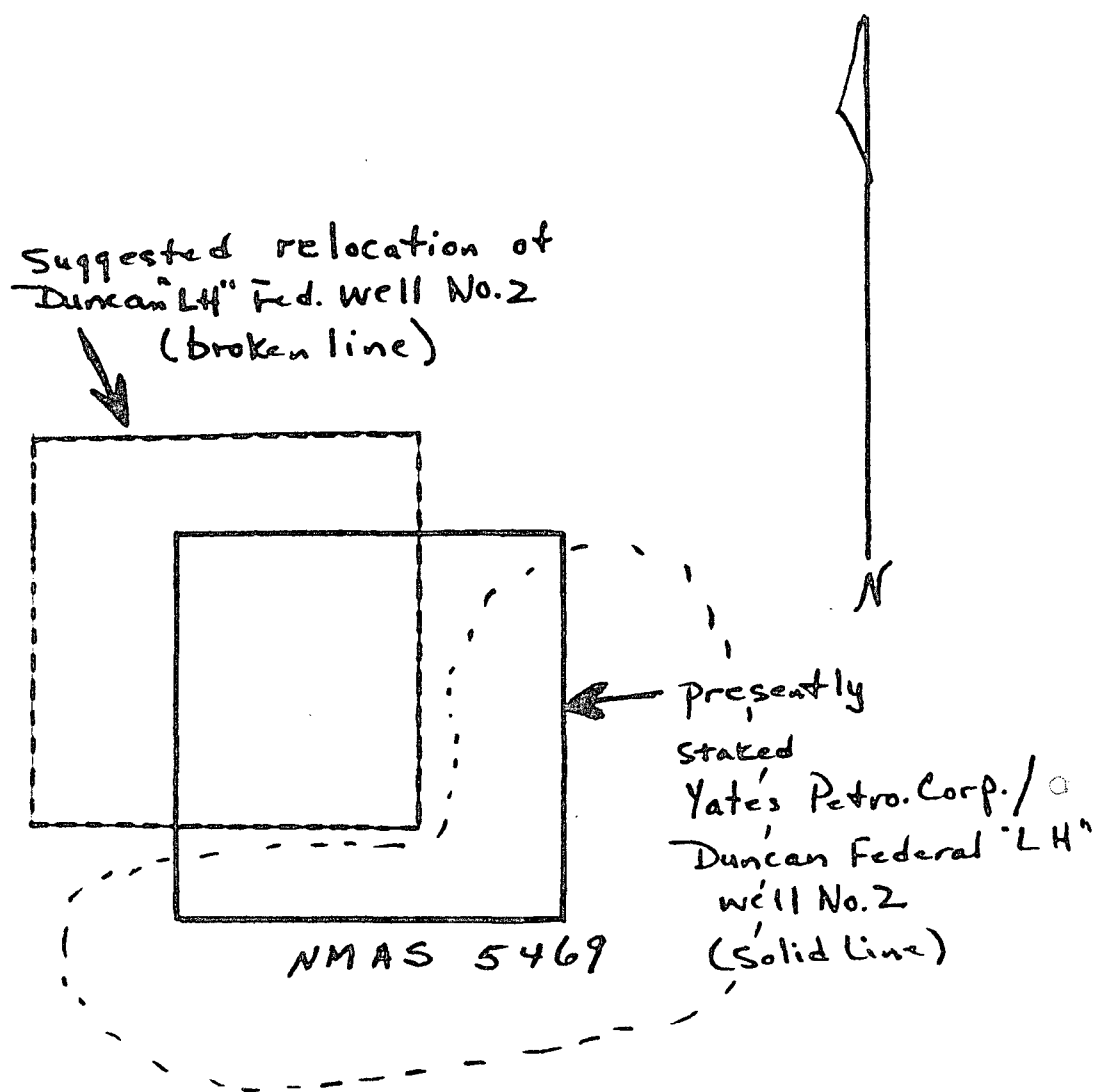


Fig. 1. Schematic representation showing YATES PETROLEUM CORPORATION's proposed Duncan "LH" Federal Well No. 2 vis à vis NMA 5469. Suggested relocation of pad, shown by broken lines, is envisioned as being 2130 FEL, 2080 FSL, Section 3, T8S, R25E, NMPM, Chaves County, New Mexico.

YPC/
Duncan L.H. Federal #2
1980' FSL & 1980' FEL,
Sec. 3 - T8S-R25E,
Chaves County, NM.

T-8-S

Yates Petro. Corp.
Duncan L.H.
Federal Well
No. 2

Proposed
Access Road

USGS Coyote Draw Quad.
7.5 Minute Series, 1963.

BITTER LAKES

17

