

UNITED STATES
DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☒GAS
WELL ☐OTHER ☐SINGLE
ZONE ☒MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Dyches & Adkisson ✓

EIVED

3. ADDRESS OF OPERATOR

P.O. Box 8425, Midland, Texas 79703

N 19 1979

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

2310' FEL & 2310' FSL

C.C.
ARTESIA, OFFICE

At proposed prod. zone

same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

Approximately 22 miles south of Carlsbad, New Mexico

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

330'

16. NO. OF ACRES IN LEASE

40

17. NO. OF ACRES ASSIGNED
TO THIS WELL

10

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

None

19. PROPOSED DEPTH

900'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

3190' GL

22. APPROX. DATE WORK WILL START*

November 12, 1979

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
7 7/8"	4 1/2"	9.50#	900'	250 Sxs. or less if required to circulate to surface.

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IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

C. L. Mark

TITLE

Agent

DATE

10/26/79

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

11-16-79

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

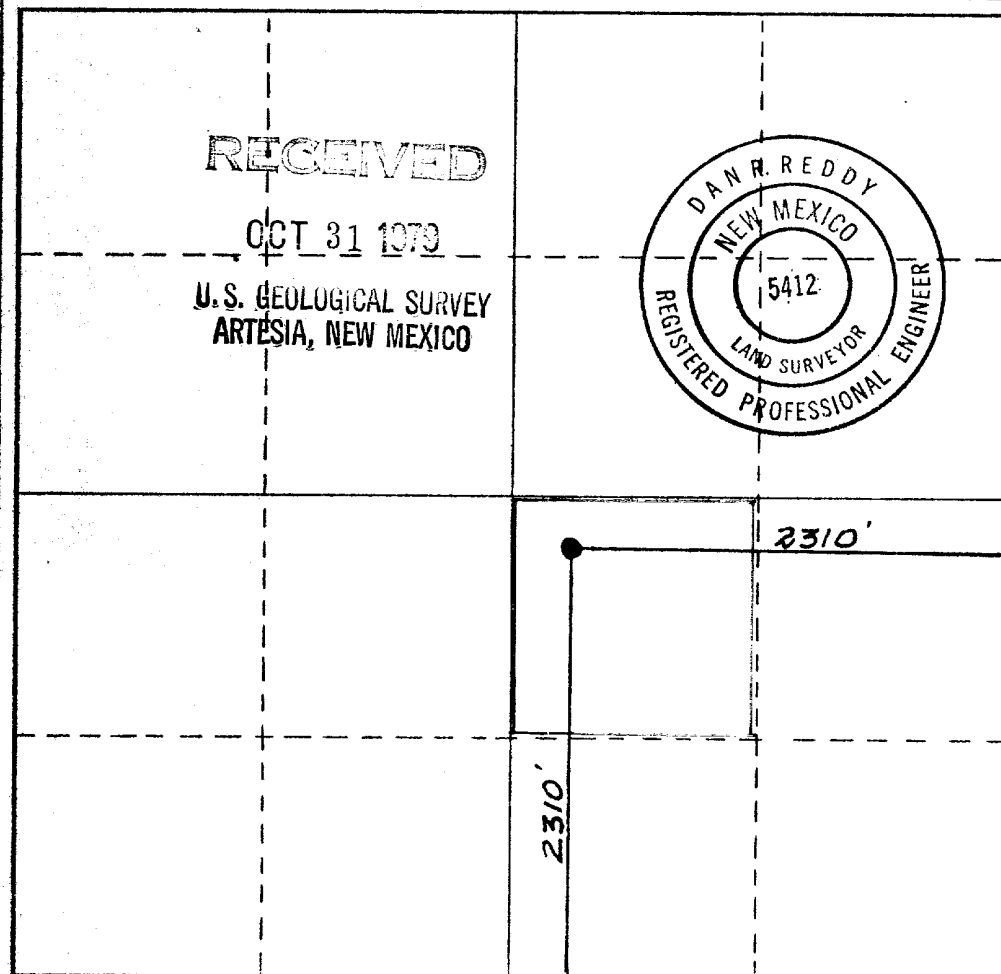
All distances must be from the outer boundaries of the Section.

Operator Dyches and Adkisson			Lease Castile Federal			Well No. 1		
Unit Letter J	Section 29	Township 26 South		Range 27 East	County Eddy			
Actual Footage Location of Well:								
2310 feet from the South line and			2310 feet from the East line					
Ground Level Elev. 3190	Producing Formation Castile lime		Pool Glen Castile			Dedicated Acreage: 40 10 Acres		

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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 Commission.



CERTIFICATION

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

Tom D. Dyches, Charles Adkisson
Name _____

Partners
Position _____

Dyches & Adkisson
Company _____

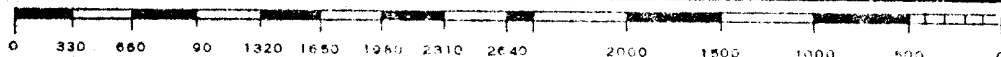
Date
10-20-79

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
Oct. 20, 1979
Registered Professional Engineer
and/or Land Surveyor

Dan R. Reddy
Certificate No. _____

NMPE&LS #5412





U.M.O.C.D. COPY

United States Department of the Interior

GEOLOGICAL SURVEY

P. O. Drawer U
Artesia, New Mexico 88210

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NOV 19 1979

O. D. C.
ARTESIA, OFFICE

November 16, 1979

Dyches & Adkisson
P. O. Box 8425
Midland, Texas 79703

Gentlemen:

DYCHES & ADKISSON
Castile Federal No. 1
2310 FSL 2310 FEL Sec. 29 T.26S R.27E
Eddy County Lease No. NM 22998

Above Data Required on Well Sign

Your APPLICATION FOR PERMIT TO DRILL the above-described well to a depth of 900 feet to test the Castile Lime formation is hereby approved subject to compliance with the OIL AND GAS OPERATING REGULATIONS (30 CFR 221) and the following conditions:

1. Drilling operations authorized are subject to compliance with the GENERAL REQUIREMENTS FOR OIL AND GAS OPERATIONS ON FEDERAL LEASES, dated July 1, 1978.
2. Prior to commencing construction of road, pad, or other associated developments, operator will provide the dirt contractor with a copy of the SURFACE USE PLAN and this approval including the GENERAL REQUIREMENTS.
3. Submit a Daily Report of Operations from spud date until the Well Completion Report (form 9-330) is filed. The progress report should be not less than 8" x 5" in size and each page should identify the well.
4. All permanent above-ground structures and equipment shall be painted in accordance with the attached Painting Requirements. The color used should simulate Sandstone Brown (Federal Standard No. 595A, color 20318 or 30318).
5. Cement behind the 4-1/2" casing must be circulated.
6. Please have anyone contacting the Survey in regard to this well to identify the well with all of the information required above for the well sign.

Sincerely yours,

George H. Stewart
Acting District Engineer



THOMAS DYCHES
Independent Oil Producer
P.O. Box 8425
Midland, Texas 79703
915/697-5457

Application for Drilling

Dyches & Adkisson
No. 1 Castile Federal
2310' FSL & 2310' FEL
Township 26 South, Range 27 East, N.M.P.M.
Section 29
Eddy County, New Mexico

In conjunction with Form 9-331C, Application for Permit to Drill subject well, Dyches & Adkisson of Midland, Texas, submits the following ten (10) items of pertinent information in accordance with United States Geological Survey requirements:

1. The geologic surface formation is Permian.
2. Estimated tops of geologic markers are as follows:

Surface	-	Brown shale
65'		Anhydrite
100'		Brown shale
115'		Anhydrite
690'		Broken anhydrite
750'		Anhydrite & lime
870'		Brown lime (Castile lime)

3. The estimated depths at which anticipated water, oil, and/or gas formations are expected to be encountered:

Based on history of abandoned wells in the area, oil and small amounts of water should be encountered at approximately 870'. The well will be produced from this zone, the Castile lime.

4. Proposed Casing Program:

4 1/2", 9.50#/ft. New or acceptable used casing will be run and cemented with Class "C" neat cement from surface to TD of 900'.

5. Pressure Control Equipment:

Because total depth (900') is above the level at which surface pipe would normally be set & blow out preventer

installed and no pressures or water were encountered in the nearby abandoned wells, blow out equipment would be superfluous. For air drilling, a conductor pipe with valve will be set for any pressure control.

6. Mud Program:

Well will be drilled by rotary-air rig.

7. Auxiliary Equipment:

Ingersoll Rand T-4 rotary-air drilling rig owned and operated by Yucca Drilling Company, Artesia, New Mexico.

8. Testing, Logging, & Coring Program:

Gamma ray compensated neutron log from surface to 900' TD.

9. No abnormal pressures or temperatures are anticipated.

10. Anticipated starting date:

November 12, 1979 (or before)

Surface Use Plan

Dyches & Adkisson No. 1 Castile Federal
Lease No. NM-22998
2310' FSL & 2310' FEL
Township 26 South, Range 27 East, N.M.P.M.
Section 29
Eddy County, New Mexico

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This plan is submitted by the operators, Dyches & Adkisson of Midland, Texas, along with the application for permit to drill a 900' test on the above described location. The following information describes all intent with regard to location of proposed well, construction activities, operations, surface disturbance, and rehabilitation of surface after well completion.

1. Existing Roads:

- A. Exhibit "A" is a map showing the location of the proposed well and existing roads in a one mile radius.

2. Planned Access Roads:

- A. Access within 2 miles of well site will be by an existing pipe line road.
- B. No culverts, cattle guards or gates will be installed.
- C. Ranch road serving as access from pipe line road to drill site will be improved only slightly to accomodate movement of equipment and personnel. No additional dirt or caliche work will be done.

3. Location of Existing wells:

- A. No existing, producing wells lie within a two mile radius. Abandoned & plugged wells are shown on Exhibit "A".

4. Location of Existing and/or Proposed Facilities:

- A. Exhibit "B" outlines location of production equipment if well is commercial. Flowline & tank battery will be located on well site & no additional surface disturbance will be required.

5. Location & Type of Water Supply:

- A. Well will be drilled by a rotary/air rig thereby requiring very little water. Minimum amounts of water will be transported by Yucca Drilling Company. Any additional water required for well completion will be transported by truck.

6. Source of Construction Materials:

- A. No materials will be required.

7. Methods of Handling Waste Disposal:

- A. Drill cuttings will be disposed of in drilling pit.
See Exhibit "B".
- B. Fluids will be allowed to evaporate in drilling pit; pit will be buried upon completion.
- C. Any water produced from well will be placed in drilling pit; oil produced will be stored in tanks until sold.
- D. Laws & regulations pertaining to human waste will be complied with.
- E. All trash, garbage, junk, and debris will be properly contained & removed.

8. Auxiliary Facilities:

- A. None required.

9. Well Site Layout:

- A. Exhibit "B" shows relative location & dimensions of well site, cuttings pit, & major components of drilling equipment.
- B. Because an abandoned well site is being used, only minimal improvement will be required.
- C. Pad & pit area stated & flagged as outlined in Exhibit "B".

10. Plans for Restoration of Surface:

- A. After completion of drilling and/or completion of operations, all equipment and other material not needed for operations will be removed. Pits will be filled, location cleaned to leave well site aesthetically pleasing as possible.
- B. Any pits containing fluids will be fenced until they are filled.
- C. Any special revegetation requirement of Surface Management Agency will be complied with and accomplished as expeditiously as feasible.

11. Other Information:

- A. Land surface is relatively flat and smooth. Elevation is 3190' at well site. No gullies, washes, or depressions in immediate area.
- B. Soil: Sand red clay underlain by caliche.

Flora and Fauna:

- A. Vegetative cover is relatively spare consisting mainly of broom weed and perenial native range. Grass dotted with mesquite. Wildlife is typical of semi-arid desert in New Mexico; rabbits, rodents, reptiles, dove, quail and occasional coyote.

Ponds and Streams:

- A. None in area.

Residence and Other Structures:

- A. No occupied structures in 3 mile radius.

Land Use:

- A. Grazing.

Surface Ownership:

- A. Well site is on Federal surface. Existing roads on State and Bureau of Land Management land. The access route to well site in Bureau of Land Management surface.

12. Operator's Representative:

The field representatives responsible for assuring compliance with approved surface use and operations plan are as follows:

Tom D. Dyches
Chas. A. Adkisson
P.O. Box 8425
Midland, Texas 79703
Phone: 915-697-5457

13. Certification:

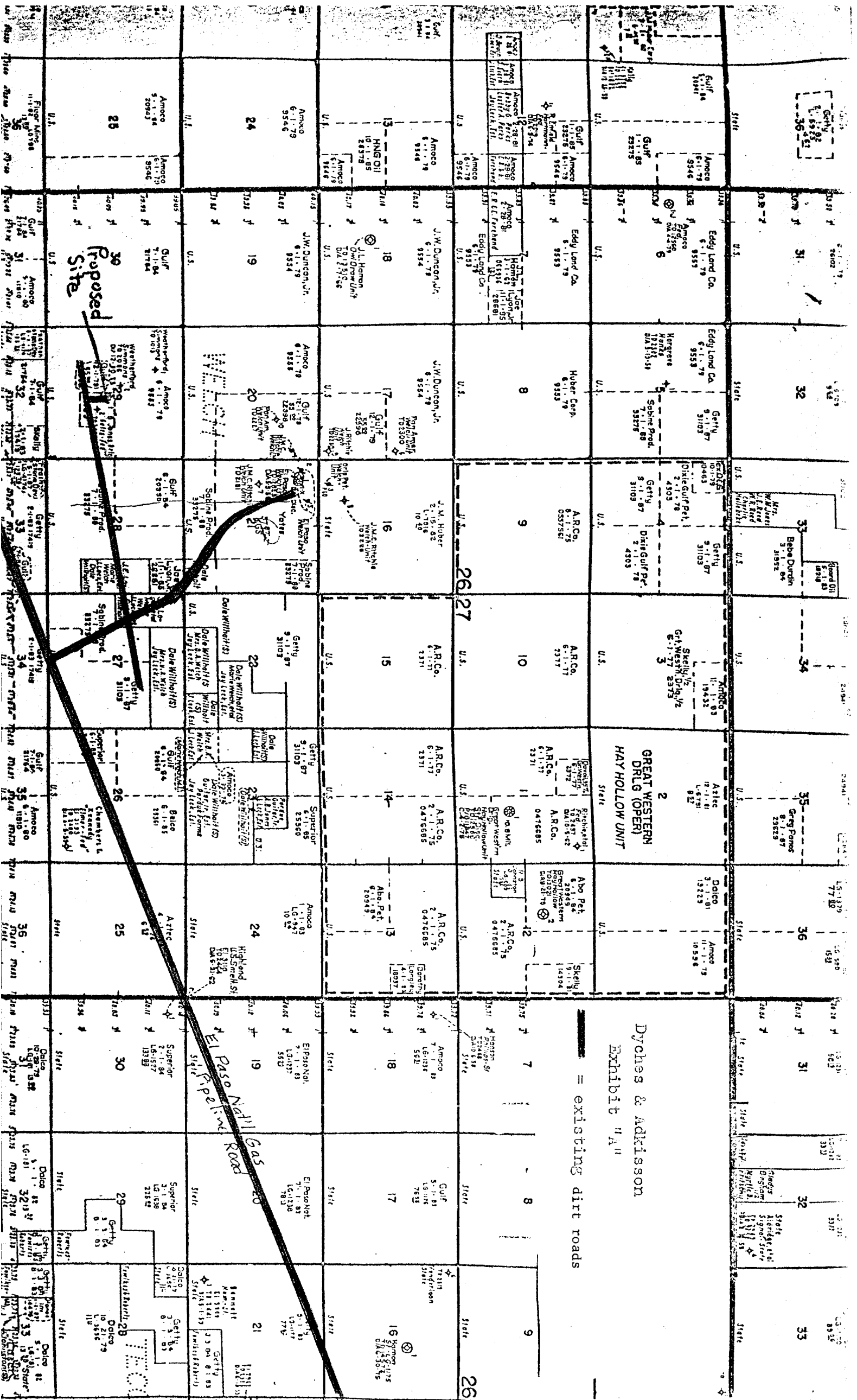
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Dyches & Adkisson and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

Date: 10/31/79

DYCHES & ADKISSON

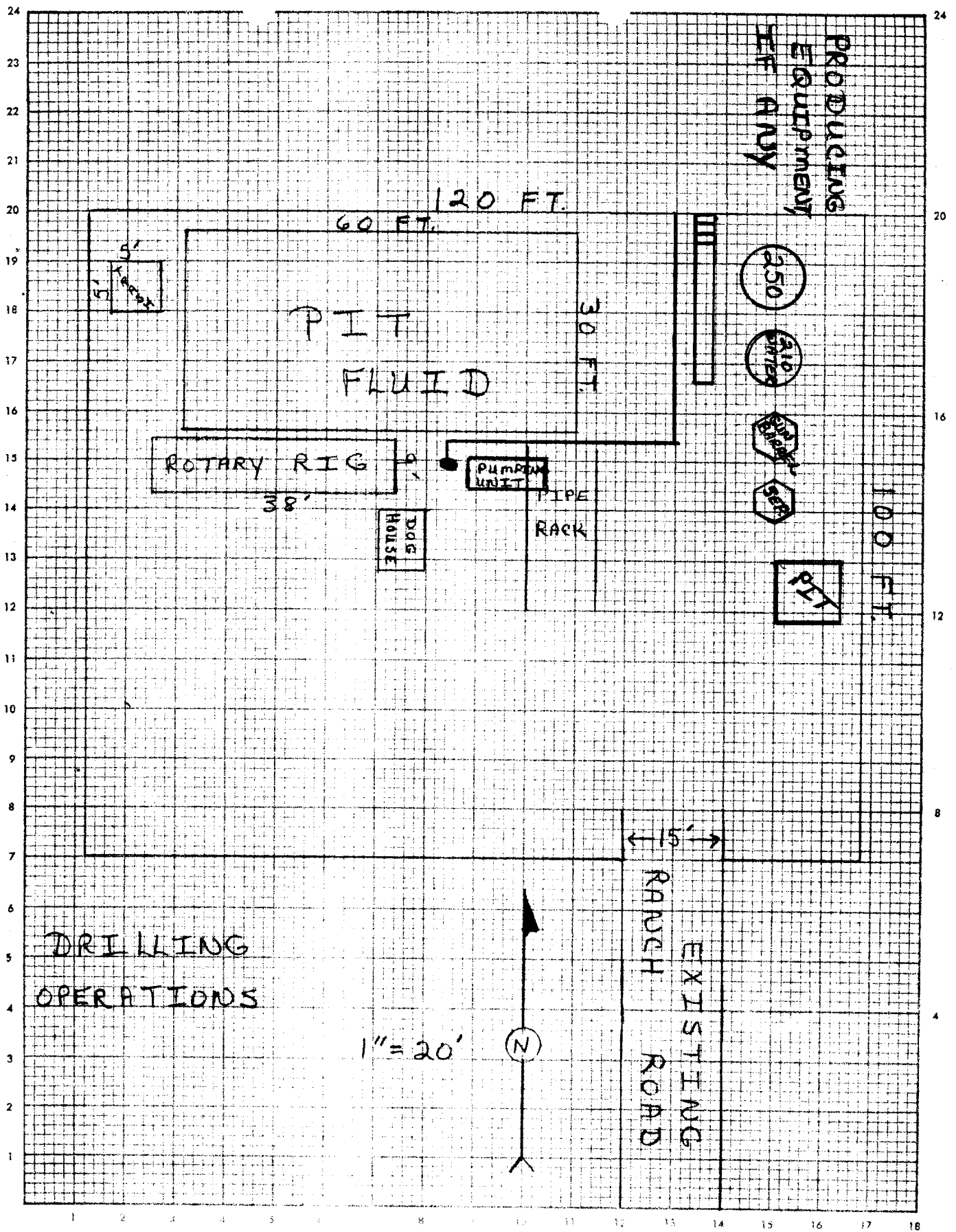
By

Cheri Moul
Agent



Dyches & Adkisson
Exhibit "A"

— = existing dirt roads



DYCHES & ADKISSON
EXHIBIT "B"

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Archaeological Clearance Report
for

Dyches and Adkisson

Castile Federal Well No. 1
Modifications to Existing Lease Roads

Prepared

By

Dr. J. Loring Haskell

Submitted

By

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

25 October 1979

Permit No. 79-NM-166

Introduction

On 24 October 1979, New Mexico Archaeological Services, Inc., (NMAS), Carlsbad, undertook for Dyches and Adkisson, Midland, an archaeological reconnaissance of federal lands administered by the Bureau of Land Management in Eddy County, New Mexico. Reconnoitered areas will be impacted by the construction of a drill location and modifications to existing lease roads. This project was advanced by Mr. Tom Dyches, Operator, Dyches and Adkisson, and expedited by Dr. J. Loring Haskell, Principal Investigator, NMAS, Inc.

Survey Technique

For this investigation, Dyches and Adkisson's proposed location was reconnoitered for evidence of man's past activities by walking it in a series of 20 ft wide, close interval (15° or less), zigzag transects. In addition, an added zone embracing 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 were the existing lease roads. Methodologically, this procedure served to promote optimal conditions for the visual examination of areas to be impacted by construction-related activities.

Castile Federal Well No. 1

Location

The proposed location will measure 400 X 400 ft on federal lands and will be situated 2310 ft from the south line and 2310 ft from the east line of:

Section 29, T26S, R27E, NMPM, Eddy County, NM

Thus it will be situated in the:

NW $\frac{1}{4}$ SE $\frac{1}{4}$, Section 29, T26S, R27E, NMPM, Eddy County, NM

It is situated on an existing lease road.

Map Reference: USGS MALAGA QUADRANGLE, 15 Minute Series. 1945.

Terrain

The proposed location is situated on a low, north-south oriented ridge overlooking Owl Draw on the south. This landform is demarcated on the north by a prominent eminence and on the south by the Rustler Hills. Drainage is toward the east and south and hence is into Owl Draw. To the west, the Guadalupe Mountains crenulate the horizon. Locally, soil individuals are fine-grained, gypsiferous, silty loams, and silty clay loams belonging to the Typic Gypsiorthid and Calcic Gypsiorthid subgroups and several of their intergrades. Chert, sandstone, limestone, and gypsum inclusions occur with increasing frequency as the ridge is ascended.

Floristics

Principal occupants making up the local floral overstory include: Yucca elata, Larrea tridentata, Acacia constricta, Prosopis juliflora, and infrequent Rhus macrophylla and Koeberlina spinosa. Commonly observed denizens of gypsiferous soils include: Coldenia canescens, Haploesthes greggii, Nerisyrenia linearfolia, Psilostrophe sp., and Bouteloua breviseta. More argillaceous soils support Circium sp., Clematis sp., Perezia nana, Opuntia leptocaulis, and Opuntia macrocentra. Frequent grasses of these soils include: Tridens pulchellus, Scleropogon brevifolius, Aristida sp., Sporobolus spp.

SW $\frac{1}{4}$ NE $\frac{1}{4}$, Section 28, T26S, R27E, NMPM, Eddy County, NM
 SE $\frac{1}{4}$ NW $\frac{1}{4}$, Section 28, T26S, R27E, NMPM, Eddy County, NM
 NE $\frac{1}{4}$ SW $\frac{1}{4}$, Section 28, T26S, R27E, NMPM, Eddy County, NM
 NW $\frac{1}{4}$ SW $\frac{1}{4}$, Section 28, T26S, R27E, NMPM, Eddy County, NM
 NE $\frac{1}{4}$ SE $\frac{1}{4}$, Section 29, T26S, R27E, NMPM, Eddy County, NM
 SE $\frac{1}{4}$ SE $\frac{1}{4}$, Section 29, T26S, R27E, NMPM, Eddy County, NM
 SW $\frac{1}{4}$ SE $\frac{1}{4}$, Section 29, T26S, R27E, NMPM, Eddy County, NM
 NW $\frac{1}{4}$ SE $\frac{1}{4}$, Section 29, T26S, R27E, NMPM, Eddy County, NM

Map Reference: USGS MALAGA QUADRANGLE, 15 Minute Series, 1945.

Terrain

Areal terrain is marked by a series of low, generally north-south oriented ridges separated by broad, shallow draws which are tributary to the Owl drainage system on the south. In addition, small rills and gullies commonly braid the coeval landform. Attendant soil individuals belong to the Typic Gypsiorthid and Calcic Gypsiorthid subgroups. Peds typically consist of fine-grained silty clay loams and clay loams containing gypsum, sandstone, chert, and limestone inclusions. Ridges typically are mantled by a scree of limestone cobbles and gravels of a highly weathered nature. Puddling and scaling are characteristic of more argillaceous peds.

Floristics

Key elements of the local floral overstory include: Tamarish sp., Prosopis juliflora, Rhus macrophylla, Yucca elata, and Larrea tridentata. Brickellia sp., and Clematis sp. are frequent denizens of bottomlands. Forbs include: Cirsium sp., Euphorbia spp., Ctyptantha sp., Coldenia canescens, Nerisyrenia linearifolia, and Haploesthes greggii. Commonly observed grasses include: Bouteloua brevesita, Sporobolus airoides, Sporobolus sp., Aristida longiseta,

and Tridens pulchellus. Cacti are limited to Opuntia leptocaulis and Opuntia macrocentra.

Cultural Resources

No archaeological sites or isolated manifestations were recorded during this reconnaissance. Their absence is due to the nature of the associated landform with its lack of lithic material, water, and cover. In the past, small social units engaged in hunting- and hunting-related tasks visited this area on a sporadic basis. Activities of this type, however, were short lived. Occupancy probably dates back to Archaic times and lasted until well into the nineteenth century A.D., i.e., until the confinement of the native peoples to reservations.

Recommendations

NMAS recommends clearance for the proposed modifications to the existing lease roads and suggests that work-related activities proceed in accordance with company plans.