

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYSUBMIT IN TRIPLICATE  
(Other instructions on  
reverse side)Form approved.  
Budget Bureau No. 42-R1425.

30-015-23035

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☐ 1979PLUG BACK ☐

## b. TYPE OF WELL

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

## 2. NAME OF OPERATOR

Southland Royalty Company

O.C.C.  
ARTESIA, OFFICE

## 3. ADDRESS OF OPERATOR

1100 Wall Towers West, Midland, Texas 79701

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

At surface

Unit Letter C 2310 FWL 990 FNL Sec. 34, T-17-S

At proposed prod. zone

R-29-E

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

4 miles SW Loco Hills, New Mexico

## 15. DISTANCE FROM PROPOSED\*

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

990'

## 16. NO. OF ACRES IN LEASE

1160

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

40

## 18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

990'

## 19. PROPOSED DEPTH

3090'

## 20. ROTARY OR CABLE TOOLS

Rotary

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

3517 GR

## 22. APPROX. DATE WORK WILL START\*

Oct. 20, 1979

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
11 1/4"	8 5/8"	24#	475'	Circulate
7 7/8"	5 1/2"	14#	3090'	Circulate

It is planned to drill to T.D. at 3090', set pipe to T.D. and cement to surface if possible. Run CNL log inside pipe, perforate and complete in Grayburg and San Andres formations.

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ARTESIA, NEW MEXICO

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. Harney Can

TITLE

District Engineer

DATE

9-5-79

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

10-17-79

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.

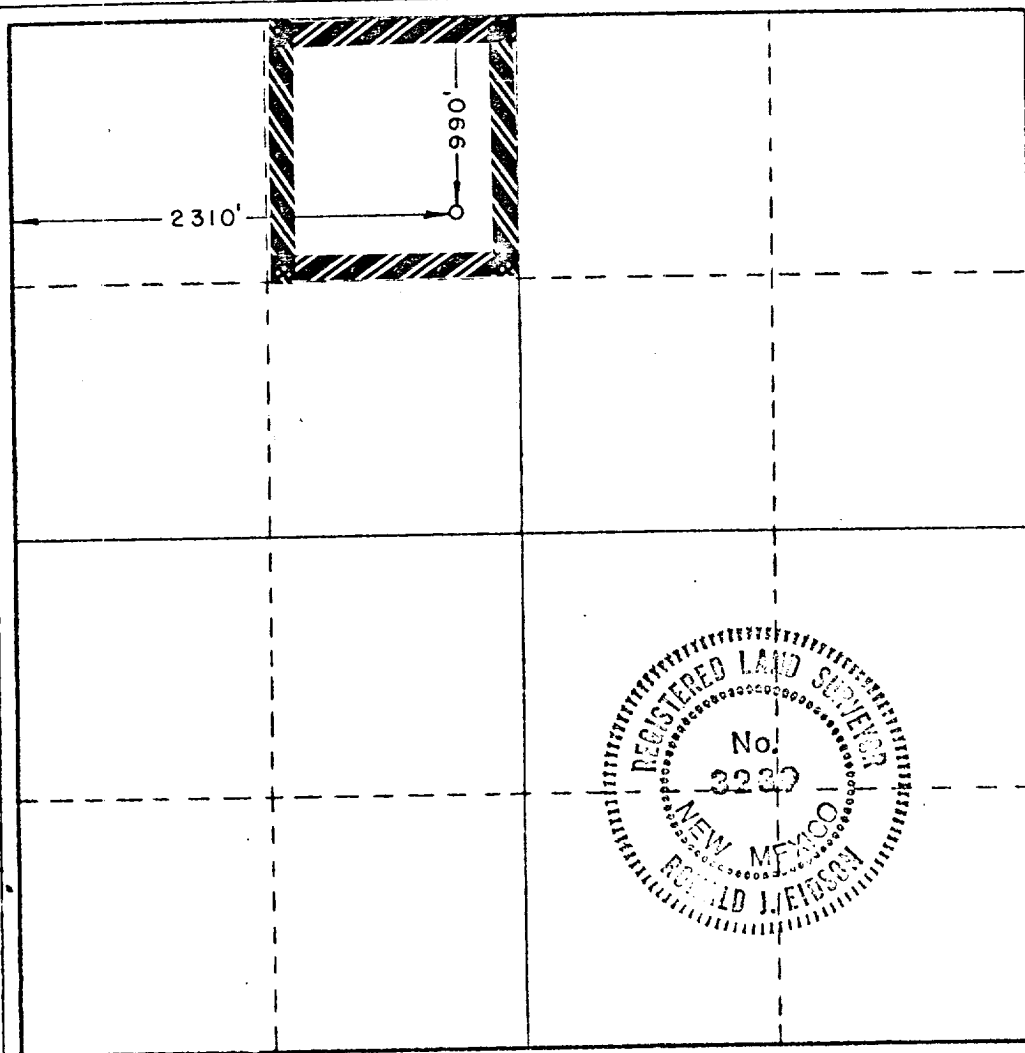
Operator <b>SOUTHLAND ROYALTY Co.</b>		Lease <b>ROBINSON JACKSON UNIT TRACT 4</b>		Well No. <b>32</b>
Unit Letter <b>C</b>	Section <b>34</b>	Township <b>17 SOUTH</b>	Range <b>29 EAST</b>	County <b>EDDY</b>
Actual Footage Location of Well: <b>2310</b> feet from the <b>WEST</b> line and <b>990</b> feet from the <b>NORTH</b> line				
Ground Level Elev. <b>3517.0</b>	Producing Formation <b>Grayburg San Andres</b>		Pool <b>Grayburg Jackson</b>	Dedicated Acreage: <b>40</b> 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 interests are 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.

*C. Harvey*  
Name  
District Engineer  
Position  
Southland Royalty Co.  
Company  
9-6-79  
Date

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  
**AUGUST 17, 1979**

Registered Professional Engineer  
and/or Land Surveyor

*Ronald J. Eidson*  
Certificate No. **John W. West 676**  
**Ronald J. Eidson 3239**

0 330 660 990 1320 1650 1980 2310 2640 2970 3300 3630 3960 4290 4620 4950 5280 5610 5940 6270 6600



## United States Department of the Interior

GEOLOGICAL SURVEY

P. O. Drawer U  
Artesia, New Mexico 88210

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OCT 18 1979

O. C. C.  
ARTESIA, OFFICE

October 17, 1979

Southland Royalty Company  
1100 Wall Towers West  
Midland, Texas 79701SOUTHLAND ROYALTY COMPANY  
Robinson Jackson Unit Tr. 4 No. 32  
990 FNL 2310 FWL Sec. 34 T.17S R.29E  
Eddy County Lease No. LC 069147

Gentlemen:

Above Data Required on Well Sign

Your APPLICATION FOR PERMIT TO DRILL the above-described well to a depth of 3.090 feet to test the San Andres 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 8-5/8" 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.



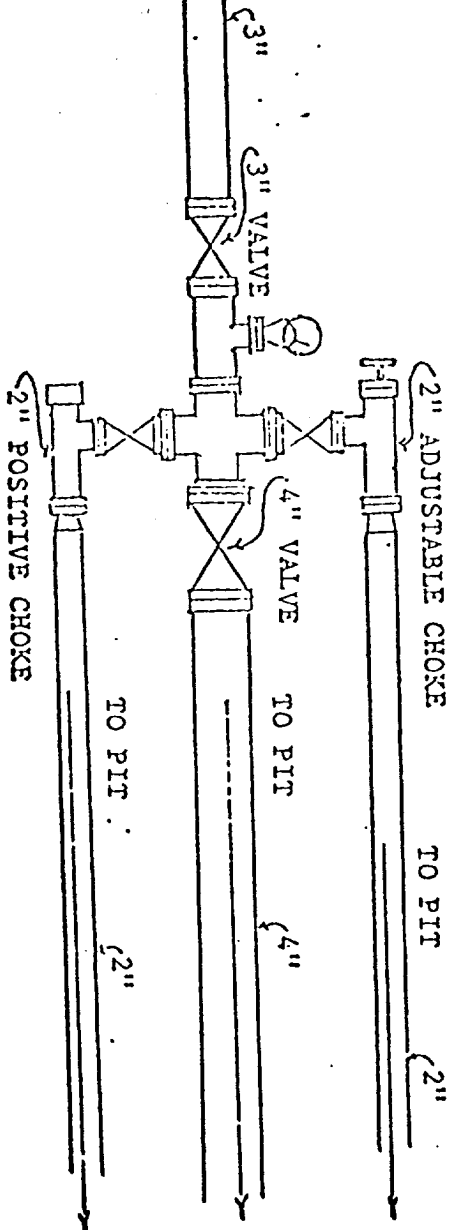
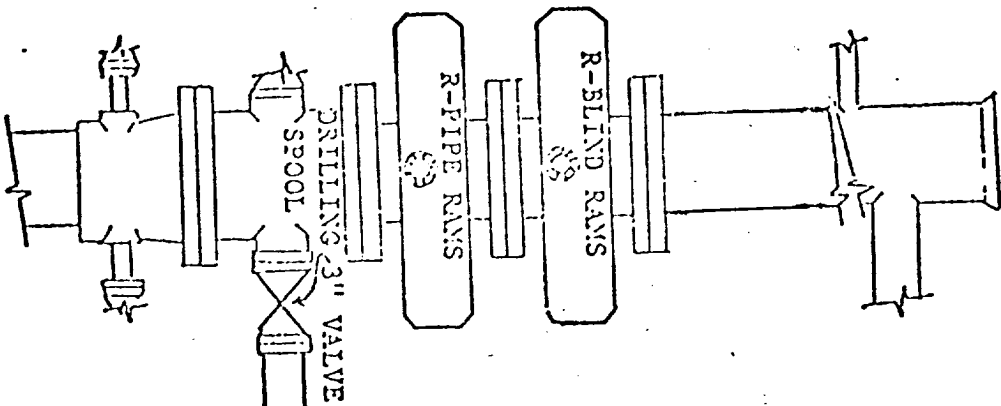
In regard to surface use the following special condition(s) must be observed for this well:

Use existing caliche pit located in the NW $\frac{1}{4}$ SE $\frac{1}{4}$ , Section 27, T. 17S., R. 29E. as the only source of building material for the well pad and access road.

Sincerely yours,

(Sgt. Sgd.) GEORGE H. STEWART

George H. Stewart  
Acting District Engineer



BLOW OUT PREVENTION EQUIPMENT  
 10" 900s ALL FLANGED CONNECTIONS  
 3,000# WORKING PRESSURE - 6,000# TEST

SOUTHLAND ROYALTY COMPANY  
ROBINSON JACKSON UNIT TR. 4 NO. 32  
LC-028775(a)

2310' FWL & 990' FNL, Sec. 34, T-17-S, R-29-E  
Eddy County, New Mexico

To supplement USGS Form 9-331C "Application to Drill", the following additional information is submitted concerning questions on page 5 of NTL-6:

1. See Form 9-331C
2. See Form 9-331C
3. The Geological Name of Surface Formation is: Paleorthid Association
4. See Form 9-331C
5. See Form 9-331C
6. Estimated Tops of Geological Markers are:

Yates	1005'
Queen	1996'
Grayburg	2420'
San Andres	2860'
7. The estimated depths at which anticipated water, oil, gas and mineral bearing strata are as follows:

Grayburg	2420'
San Andres	2860'
8. See Form 9-331C - All casing will be new.
9. See Form 9-331C for depths of strings. Cement volumes and additives as follows:
  - a) 8-5/8" casing: cement with 255 sacks of Class "C" cement with 2% Ca Cl.
  - b) 5 1/2" casing: cement with 350 sacks of 50:50 Class "C" Pozmix with 4% gel and 2% Ca Cl followed by 250 sacks 50:50 Class "C" Pozmix with 2% Ca Cl.
10. Pressure control equipment diagram is attached to Form 9-331C. The BOP will be tested before drilling below surface pipe and before drilling anticipated oil and gas formations.
11. The mud program will be, as recommended, by a reliable mud engineer. We will start to mud-up at approximately 2350' with viscosity of 34-38 and 9.5# salt-gel mud.
12. Logging and testing is shown on Application to Drill.

13. No abnormal hazards are expected.

14. Anticipated starting date is October 10, 1978. Duration of operations should be eight days.

SURFACE USE PLAN

SOUTHLAND ROYALTY COMPANY  
ROBINSON JACKSON UNIT TR. 4 NO. 32  
LC-028775 (a)

2310' FWL & 990' FNL, Sec. 34, T-17-S, R-29-E  
Eddy County, New Mexico

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U.S. GEOLOGICAL SURVEY  
ARTESIA, NEW MEXICO

This plan is submitted with Application to Drill on above described well. The purpose of this plan is to describe the location, proposed construction activities and operations plan, magnitude of necessary surface disturbance, and procedures to be followed in rehabilitating the surface after completion of the operation so that complete appraisal can be made of the environmental effects associated with the operation.

1. Existing Roads:

Exhibit "A" is a portion of county map showing the route of existing road off U.S. Hwy 82 to the proposed location: directions to the well from village limits of Loco Hills go 4.3 miles west on U. S. Hwy 82, turn southeast on dirt road and go 1½ miles. Turn east on dirt road and go .2 mile to location.

2. Planned Access Road:

The access road to proposed location will be 400 feet south from existing lease road, no gates or cattle guards are necessary (See Exhibit "A").

3. Location of Existing Wells in Area:

See Exhibit "B"

4. Location of Proposed Facilities:

Location of existing tank battery is shown on Exhibit "A". The proposed flowline will be tied into an existing flowline and the oil produced into an existing tank battery. The proposed flowline will be approximately 2000' long and will follow existing access roads. Other than flowline, no new production facilities will have to be constructed.

5. Water for Drilling:

Water will be obtained from waterflood plant located on Robinson Jackson Unit (See Exhibit "A").

6. Source of Construction Materials:

Caliche for surfacing access road and pad will be obtained from existing pits located in the area. The materials will be hauled over existing roads.



7. Handling Waste Disposal:

- A. Drill cuttings - disposed into drilling pits.
- B. Drill fluids - allowed to evaporate in drill pits until pits dry.
- C. Produced water during testing - drill pits.
- D. Produced oil during testing - storage tank until sold.
- E. Current laws and regulations pertaining to disposal of human waste will be complied with.
- F. Reserve pit will be plastic lined.
- G. Waste paper, garbage, junk disposed of into special trash pit at location and covered with minimum of 24 inches of dirt upon completion of well. All waste material will be contained to prevent scattering by wind.

8. All trash and debris will be buried or removed from well site within 30 days after finish drilling and/or completion operations.

9. Ancillary Facilities:

Layout of rig etc. will be shown on Exhibit "C". The location will be kept as small as possible to accomodate rig.

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 and locations cleaned of trash and junk to leave well site in aesthetically pleasing a condition as possible.
- B. Any unguarded pits containing fluids will be fenced until filled.
- C. After abandonment of well, surface restoration will be in accordance with State of New Mexico surface requirements.

11. Topography and Soil:

See attached Eastern New Mexico University report by Dr. Peter S. Miller.

12. Land Use:

Grazing and hunting - surface leasee is Vogle Farms, Inc.  
P. O. Box 358 (Surface owner: BLM)  
Dexter, New Mexico 88230  
Phone 505-734-4542

13. Operators Representative:

Field representatives (responsible for compliance with approved surface use and operations plan):

Southland Royalty Company  
P. O. Box 127  
Loco Hills, New Mexico 88255  
Office 505-677-2233

Mr. Wayne Grubbs, Drilling Foreman  
Loco Hills Home 505-677-2295

Mr. Bill Chrane, Prod. Supt.  
Midland, Texas Office 915-682-8641  
Home 915-694-0730

15. Certification:

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

Date: 9-5-79

C. Harvey Carr  
C. Harvey Carr  
District Engineer  
Southland Royalty Company

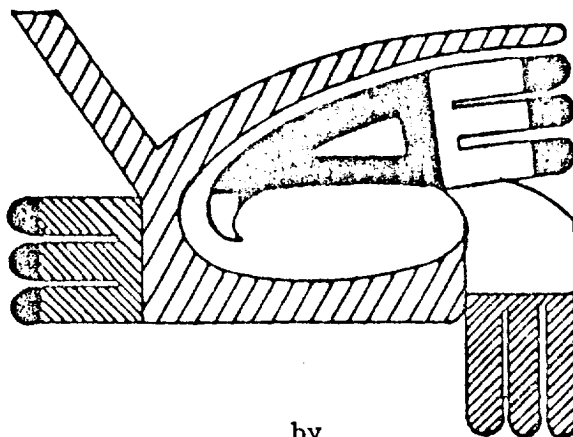
ARCHAEOLOGICAL CLEARANCE REPORT

for

SOUTHLAND ROYALTY COMPANY

Robinson Jackson Unit Tract 4 Well No. 32  
F. M. Robinson "B" Tract No. 1

80-109



by

Rodrick B. MacLennan

Edited and Submitted by

Dr. Peter S. Miller  
Director  
Agency for Conservation Archaeology  
Eastern New Mexico University  
Portales

August 27, 1979

## INTRODUCTION

An archaeological reconnaissance was recently completed by the Agency for Conservation Archaeology, Eastern New Mexico University, Portales, New Mexico, for Southland Royalty Company in Eddy County, New Mexico. The reconnoitered area will be impacted by the construction of two well pads and their associated access roads. The project was administered jointly by Mr. Dale Boland of Southland Royalty Company and Dr. Peter S. Miller, Director, Agency for Conservation Archaeology. This report was prepared by the Roswell Office of ACA, Rod MacLennan, Manager.

The field work was conducted on August 20, 1979 by Rod MacLennan. Good field and weather conditions prevailed throughout the course of this reconnaissance. This survey was completed under Federal Antiquities Permit No. 79-NM-049. A search of the National Register has been made and properities within this location are not found on the National Register.

## SURVEY TECHNIQUES

Visual inspection of the well pads was completed by walking a series of parallel transects. Each transect was covered in a tightly spaced zigzag pattern. All access roads were examined as individual transects, with tightly spaced zigzag patterns covering the length and breadth. These methods maximized the opportunity of observing any cultural resources within or near the proposed area of impact.

### Robinson Jackson Unit Tract 4 Well No. 32

#### Location

The proposed well pad and access line are located 6 miles southwest of Loco Hills, New Mexico, in the Pecos River Valley. The pad measures 400 X 400 feet and the access line measures approximately 15 X 200 feet. They are situated as follows:

NE $\frac{1}{4}$ NW $\frac{1}{4}$ , Section 34, T17S, R29E, NMPM, Eddy County, New Mexico (BLM)

Map Reference: USGS Red Lake SE Quadrangle, 7.5 minute series, 1955  
(see Figures 1 & 2).

#### Terrain

The proposed well pad and access road are located in the Pecos River Valley and are 400 feet east of Bear Grass Draw, which descends to the south. The elevation is 3517 feet.

The soils encountered in the area are predominantly calcareous sands. Lithic inclusions within this soil consist of moderate amounts of fragmented caliche. Taxonomically, this soil can be classified as a member of the Paleorthid association.

### Floristics

ACA encountered a moderate floral assemblage in this vicinity. The density of the vegetation in the area is approximately 20 percent, consisting primarily of grasses. Among the species present are: mesquite (Prosopis juliflora), oak brush (Quercus havardii), sand sage (Artemisia filifolia), black grama (Bouteloua eriopoda), blue grama (Bouteloua gracilis), false buffalo grass (Munroa squarrosa), hairy grama (Bouteloua hirsuta), little bluestem (Andropogon scoparis), poverty threeawn (Aristida divaricata), ring muhly (Muhlenbergia torreyi), sand dropseed (Sporobolus cryptandrus), tabosa (Hilaria mutica), western wheatgrass (Agropyron smithii), fringed sage (Artemisia frigida), Indian wheat (Plantago purshii), and leatherweed croton (Croton potsii).

### Cultural Resources

ACA did not encounter any archaeological sites or isolated manifestations either within or near the proposed facilities. A review of ACA's site files and the National Register did not show any properties listed for this location.

### Recommendations

ACA recommends clearance for the proposed well pad and access road and suggests that construction be allowed to proceed as currently planned.

### F. M. Robinson "B" Tract No. 1

#### Location

The proposed well pad and access road are located 6 miles southwest of Loco Hills, New Mexico, in the Pecos River Valley. The pad measures 400 X 400 feet and the access road measures 15 X 660 feet. They are situated as follows:

NW $\frac{1}{4}$ SE $\frac{1}{4}$ , Section 34, T17S, R29E, NMPM, Eddy County, New Mexico (BLM)

Map Reference: USGS Red Lake SE Quadrangle, 7.5 minute series, 1955  
(see Figures 3 & 4).

#### Terrain

The proposed well pad and access line are located in the Pecos River Valley and are 700 feet east of Bear Grass Draw, which descends to the south. The elevation is 3530 feet.

The soils encountered in the area are predominantly calcareous sands. Lithic inclusions within this soil consist of moderate amounts of fragmented caliche. Taxonomically, this soil can be classified as a member of the Paleorthid-Haplargid association.

### Floristics

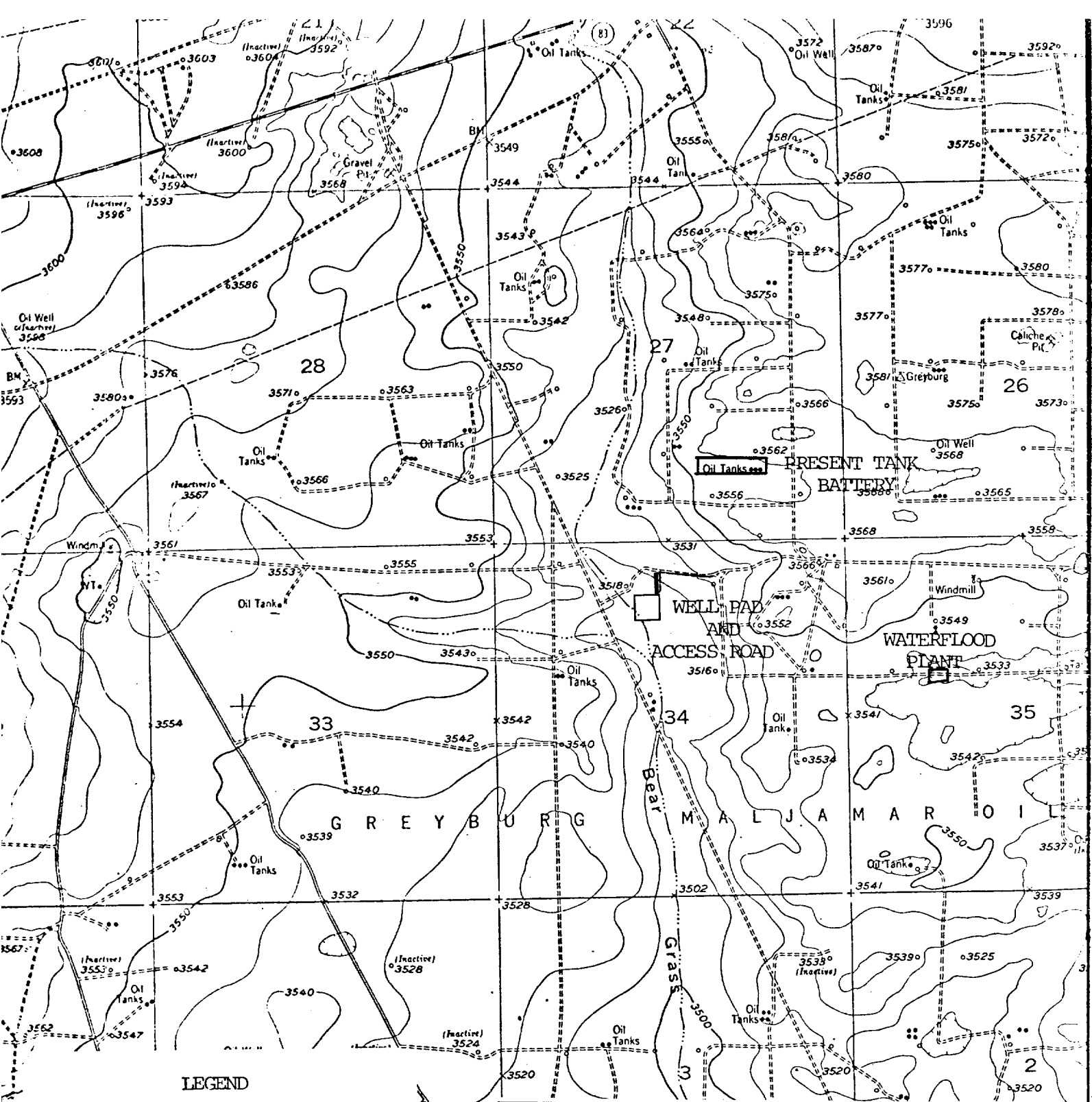
ACA encountered a sparse floral assemblage in this vicinity. The density of the vegetation in the area is approximately 10 percent, consisting primarily of shrubs. Among the species present are: mesquite (Prosopis juliflora), oak brush (Quercus havardii), western wheatgrass (Agropyron smithii), and broom snakeweed (Gutierrezia sarothrae).

### Cultural Resources

ACA did not encounter any archaeological sites or isolated manifestations either within or near the proposed areas of impact. A review of ACA's site files and the National Register did not show any properties listed for this location.

### Recommendations

ACA recommends clearance for the proposed facilities and suggests that construction be allowed to proceed as currently planned.



LEGEND  
PRESENT FLOWLINE  
PROPOSED FLOWLINE

EXHIBIT "A"



**Southland Royalty Company**  
1100 WALL TOWERS WEST, MIDLAND, TEXAS 79701

ROBINSON JACKSON UNIT TR. 4 NO. 32

2310 FWL & 990 FNL  
Section 34, T-17-S, R-29-E  
Eddy County, New Mexico

MAP REFERENCE: USGS Red Lake SE Quadrangle, 1955