

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

API 30-045-22053

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  
Kirby Exploration Co.

3. ADDRESS OF OPERATOR  
P.O. Box 1745, Houston, Texas

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)  
At surface  
1070' FNL and 1350' FWL  
At proposed prod. zone  
same

5. LEASE DESIGNATION AND SERIAL NO.  
NM0559974

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
Navajo

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Armour Federal

9. WELL NO.  
1

10. FIELD AND POOL OR WELDCAT  
Picture Cliff Extension

11. SEC. T. R. M. OR BLK. AND SURVEY OR AREA  
Sec 4 - 26N - 13W

12. COUNTY OR PARISH  
San Juan

13. STATE  
New Mexico

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)  
1070'

16. NO. OF ACRES IN LEASE  
1755

17. NO. OF ACRES ASSIGNED TO THIS WELL  
160 159.99

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.  
none

19. PROPOSED DEPTH  
1500

20. ROTARY OR CABLE TOOLS  
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
6187 GL

22. APPROX. DATE WORK WILL START\*  
5-15-76

23. PROPOSED CASING AND CEMENTING PROGRAM				
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4	8 5/8	24	150'	120
7 7/8	4 1/2	9.5	1500	200

Move in rotary drilling rig. Cement 8 5/8 surface casing at 150 feet with 120 sacks. Drill to 1500 feet to evaluate the Picture Cliff formation. Run open hole logs. If well is commercial 4 1/2 casing will be run to 1500' and cemented with 150 sacks. If well is not commercial, it will be plugged and abandoned according to the United States Geological Survey specification.

A Series 900 blow out preventer will be installed and tested before drilling out from under surface pipe.

Gas reserves under this lease are not dedicated to an existing contract.

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 William T. Jones W. T. Jones TITLE Agent DATE 5-5-76  
(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

*Ok*

\*See Instructions On Reverse Side

U. S. GEOLOGICAL SURVEY  
MAY 6 1976

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.

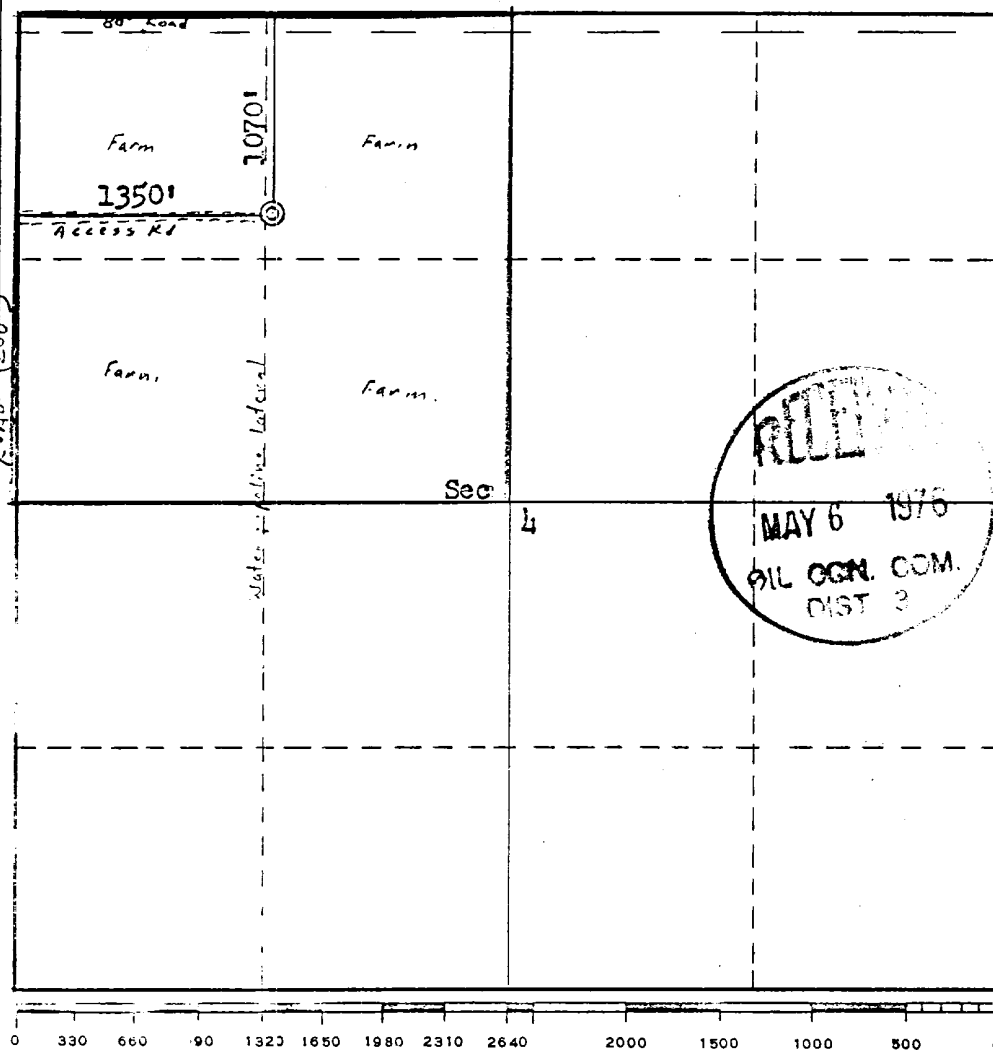
Operator <b>Kirby Exploration Co.</b>		Lease <b>Armour-Federal</b>		Well No. <b>1</b>
Unit Letter <b>C</b>	Section <b>1</b>	Township <b>26N</b>	Range <b>13W</b>	County <b>San Juan</b>
Actual Footage Location of Well: <b>1070</b> feet from the <b>North</b> line and <b>1350</b> feet from the <b>West</b> line				
Ground Level Elev. <b>6187</b>	Producing Formation <b>Picture Cliffs</b>	Pool <b>Wagon Wheel</b>	Dedicated Acreage: <b>159.99</b> 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 Commission.



CERTIFICATION

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

W. T. Jones

Name

Agent

Position

Kirby Exploration Co.

Company

5-5-76

Date

*William T. Jones*

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

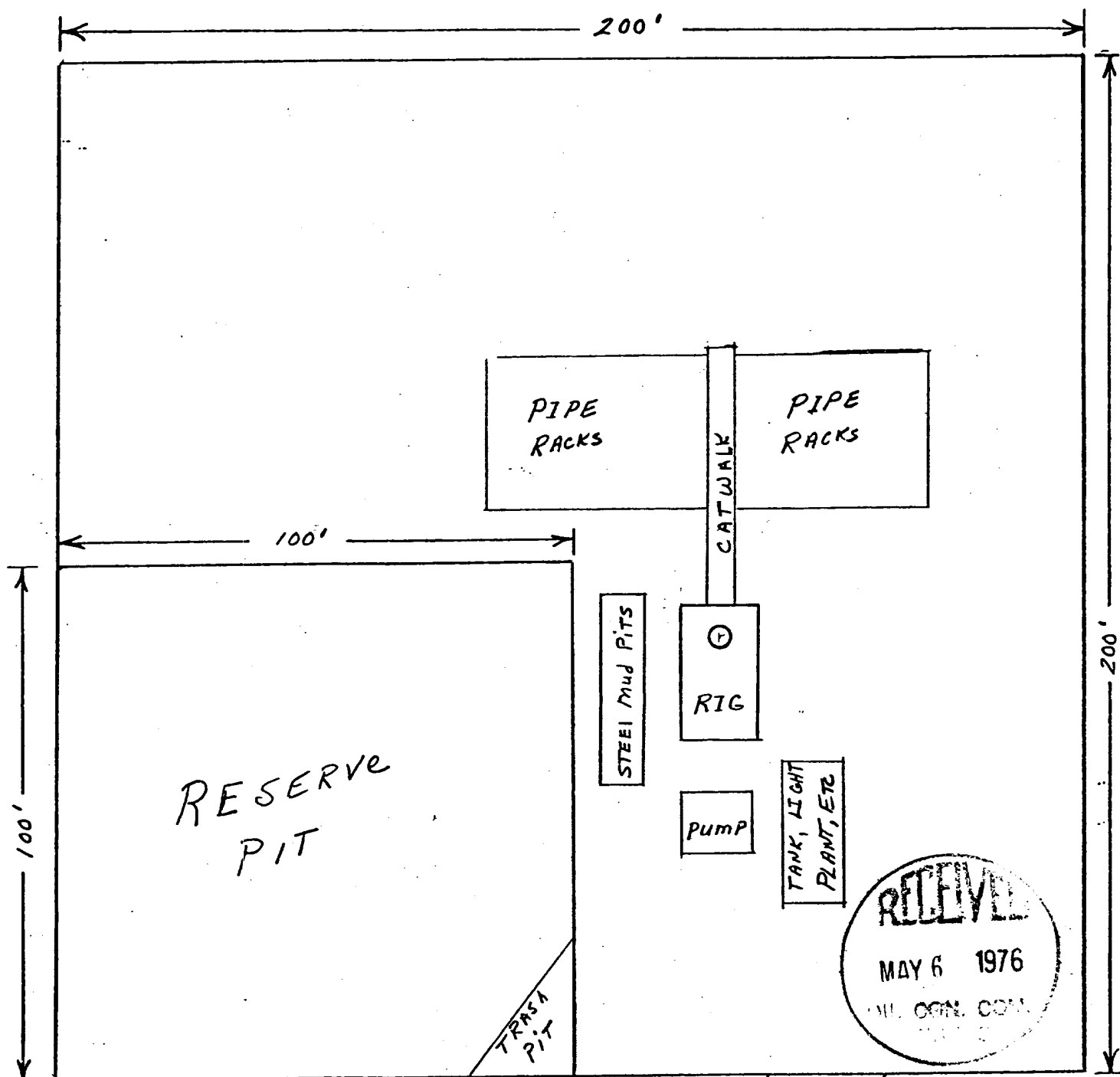
May 4, 1976

Registered Professional Engineer and/or Land Surveyor

*Pred B. Kerr Jr.*  
Pred B. Kerr Jr.

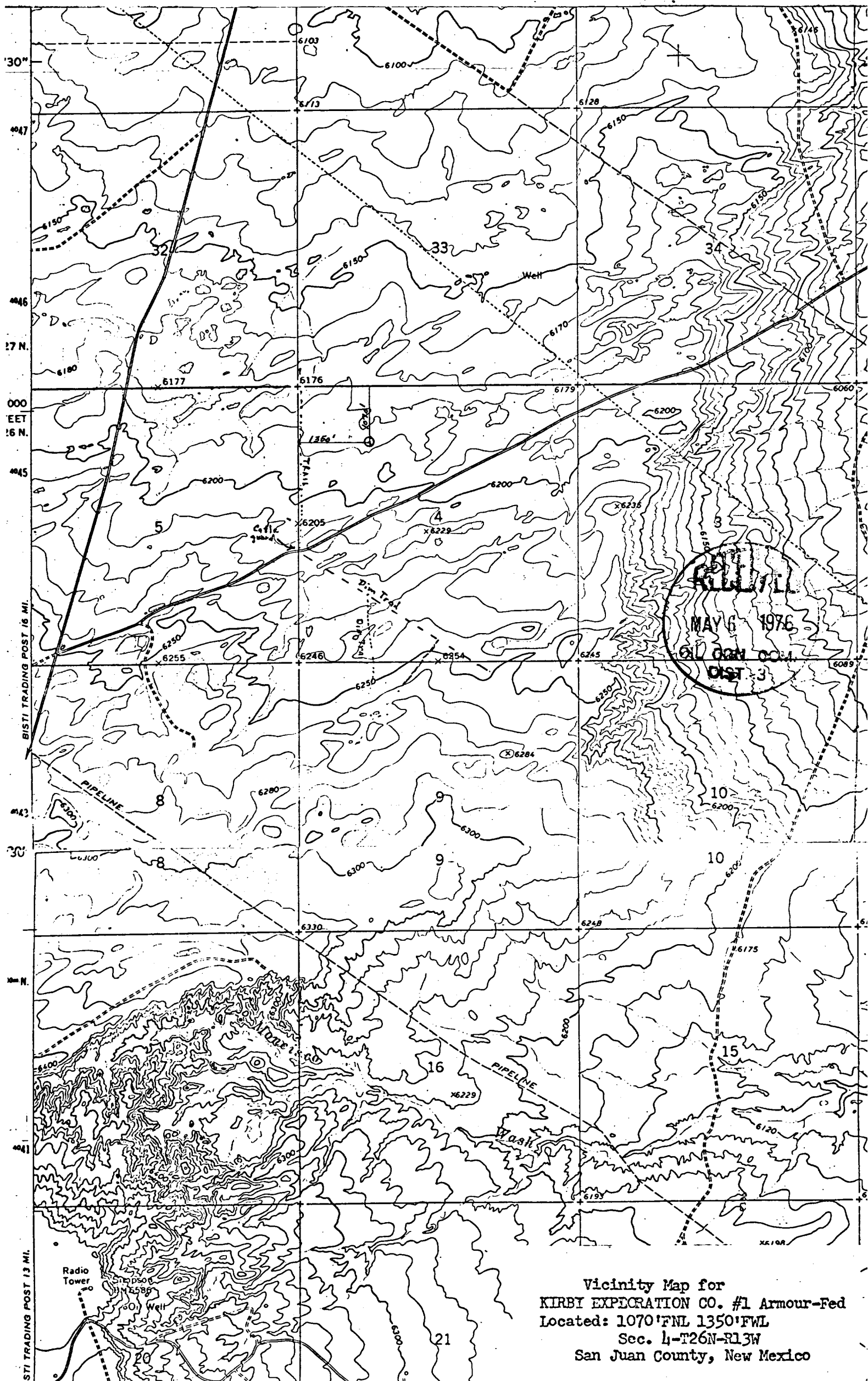
Certificate No.

3950



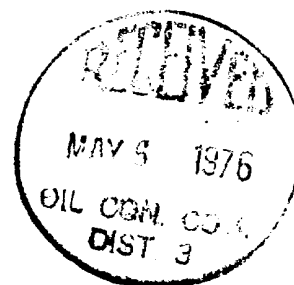
Scale 1" = 30'

Kirby Exploration Company  
 Armour Federal #1  
 1070' FNL & 1350' FWL  
 Sec 4 - 26N - 13W  
 WAW Picture Cliff Extension  
 San Juan County, New Mexico



Archeological Survey of Proposed Well Locations  
Armour Federal #1 and Grigsby #1 Conducted  
for Kirby Exploration Company

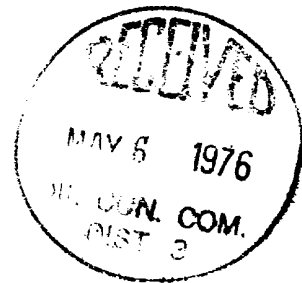
R. B. Grove



Report 76-SJC-045  
of the  
Cultural Resource Management Program  
San Juan Campus  
New Mexico State University

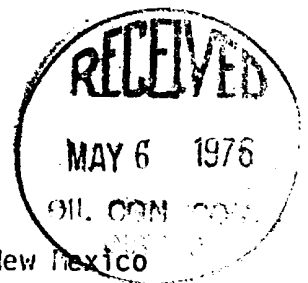
6 May 1976

Archeological Survey of Proposed Well Locations  
Armour Federal #1 and Grigsby #1 Conducted  
for Kirby Exploration Company



R. B. Grove  
Coordinator, Cultural Resource  
Management Program  
San Juan Campus  
New Mexico State University  
6 May 1976

Archeological Survey of Proposed Well Locations  
Armour Federal #1 and Grigsby #1 Conducted  
for Kirby Exploration Company



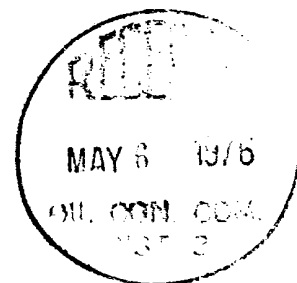
This survey was conducted on 1 and 5 May 1976 by R. B. Grove of New Mexico State University (Federal Antiquities Permit 75-111-013). The proposed construction is to lie on Bureau of Land Management lands in San Juan County, New Mexico. The land is to be withdrawn for the Navajo Indian Irrigation Project. In each case a radius of about 200 feet around the proposed wellhead was visually inspected on foot. As access to the location will be by existing trails, this will occasion little additional surface disturbance. The access routes were inspected from a slow moving vehicle. In no case was anything found to indicate that the proposed construction will have either direct or indirect adverse effects on cultural resources. This finding is consistent with expectations based on earlier surveys in the area.

Proposed Well Armour Federal #1 to be located 1000 feet from the north line and 1350 feet from the west line of Section 4, Township 26 North, Range 13 West, N.M.P.M. (Figures 1 and 2).

This well was originally to have been located 990 feet from the north and west lines of the section but was moved to conform to N.I.I.P. plans for the area. Both locations were inspected. The well will lie on a heavily grazed flat between two sand dunes. The vegetation at the location consists principally of blue gramma, mormon tea, galleta, and snakeweed.

Proposed Well Grigsby #1 to be located 1070 feet from the north line and 1350 feet from the west line of Section 9, Township 26 North, Range 13 West, N.M.P.M. (Figures 1 and 3).

This well was originally to have been located 790 feet from the north line and 1650 feet from the west line of this section but was moved to conform to N.I.I.P. development plans for the area. Both locations were inspected. This well is to lie on the south slope of a stabilized dune. The vegetation at the location consists principally of blue gramma, galleta, mormon tea, and snakeweed.





Location of Proposed Wells

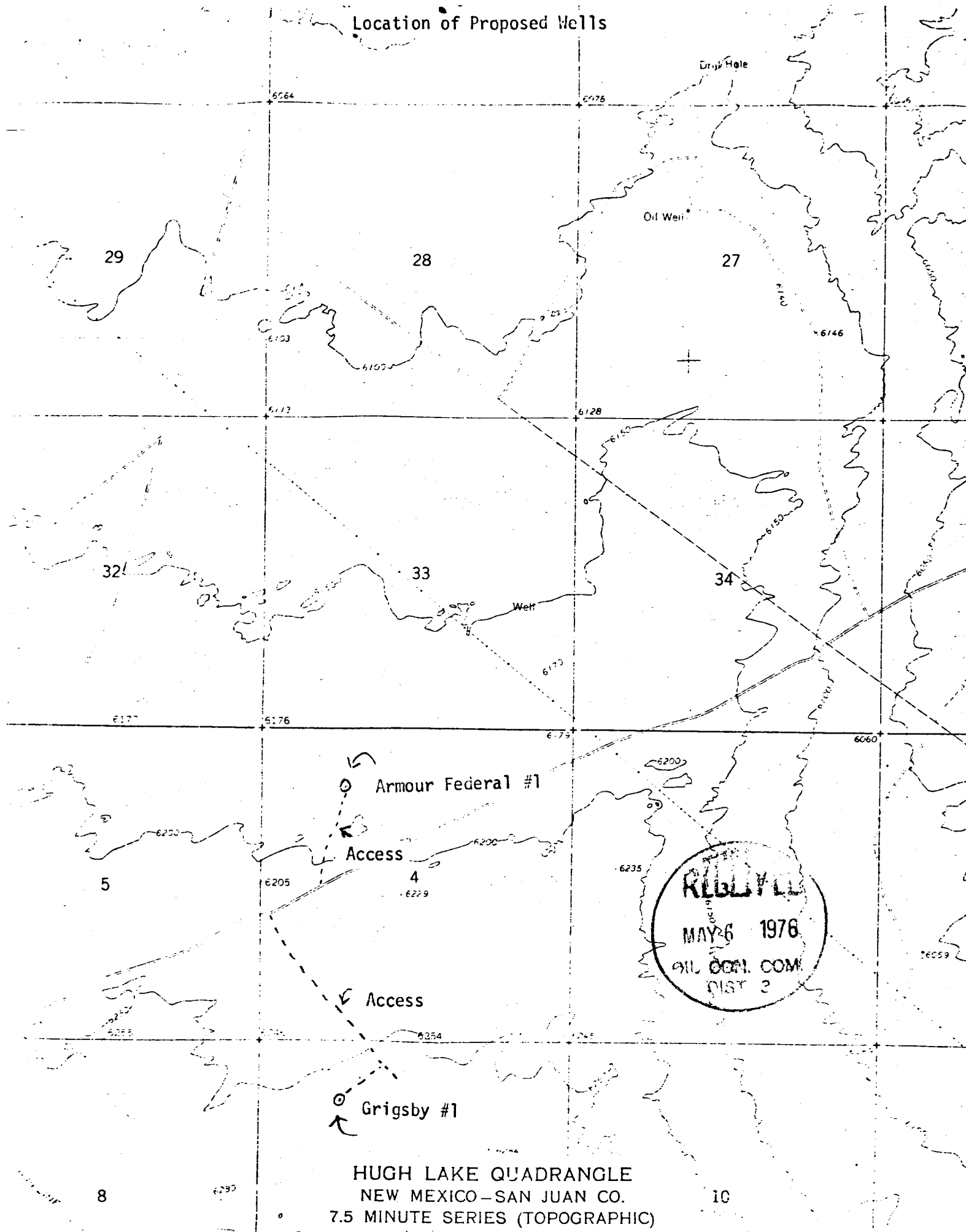


Figure 2  
Vicinity of Proposed Well Armour Federal #1

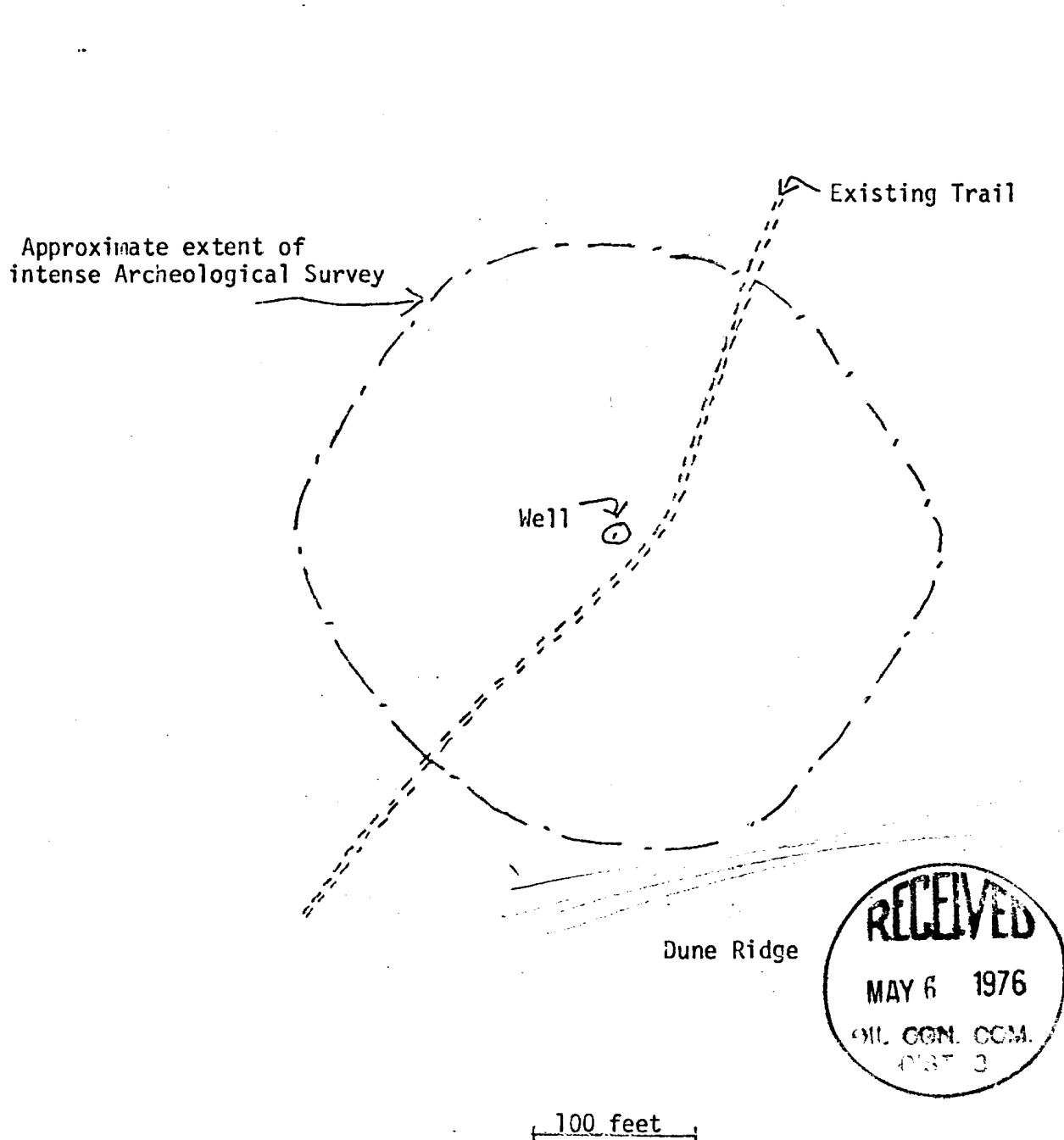
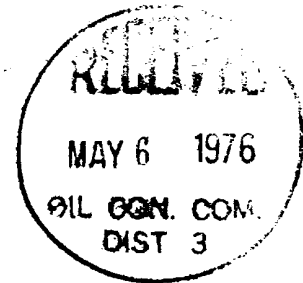
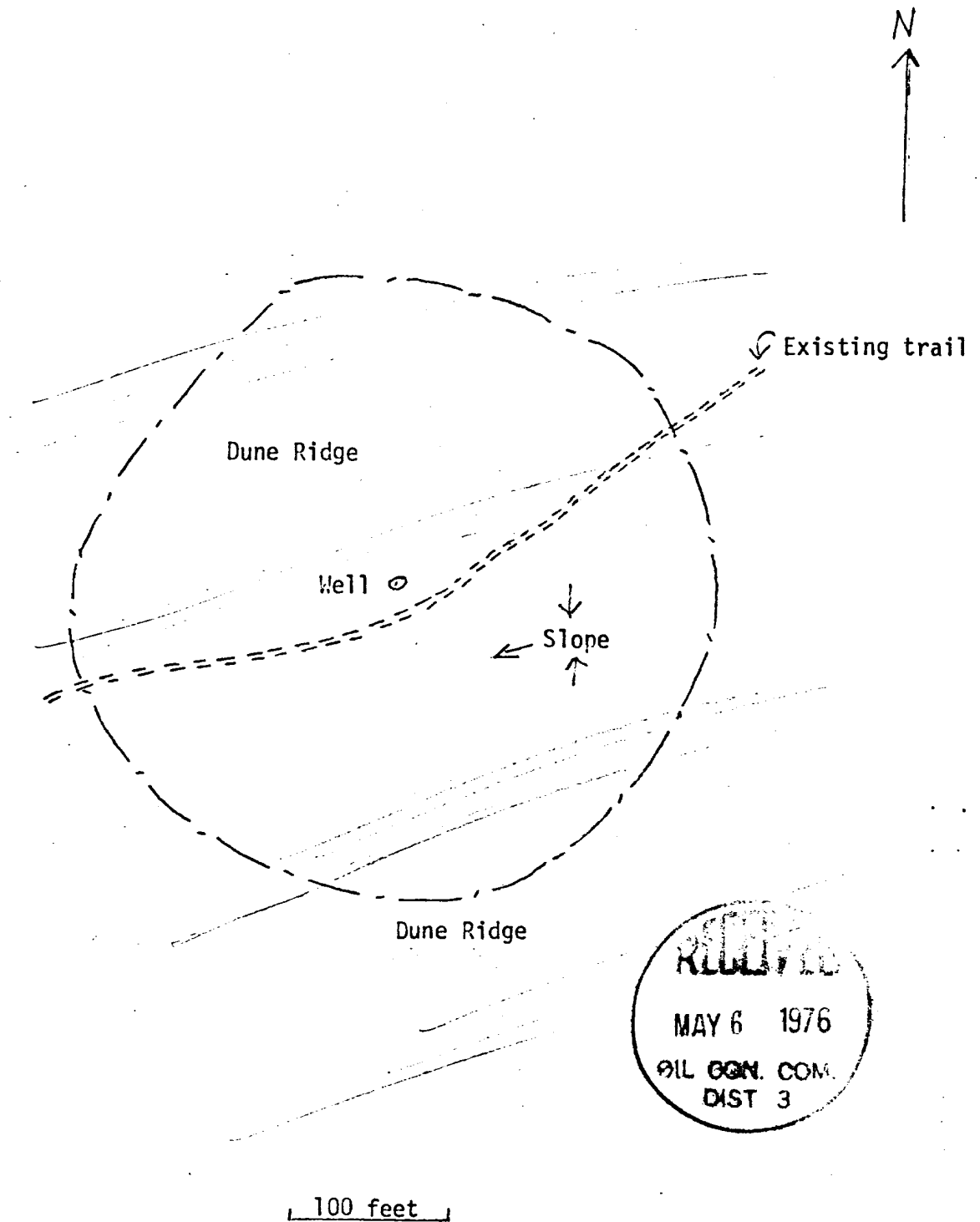


Figure 3  
Vicinity of Proposed Well Grigsby #1



# ENGINEERING & PRODUCTION SERVICE, Inc.

P. O. BOX 190 — PH. 325-1924  
FARMINGTON, NEW MEXICO 87401

May 5, 1976

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U. S. GEOLOGICAL SURVEY  
FARMINGTON, N. M.

U. S. Department of Interior  
Geological Survey  
P.O. Box 959  
Farmington, New Mexico 87401

Attention: Mr. Phil T. McGrath  
District Engineer

RE: Development Plan for Surface Use  
Kirby Exploration Company  
Armour Federal #1  
1070' FNL & 1350' FWL  
Sec 4 - 26N - 13W  
WAW Picture Cliff Extension

Gentlemen:

Enclosed is the "Application for Permit to Drill" (form #9-331C) for the subject well. Attached to the application are the following reports: archaeological report, surveyor plat, drill site plat and vicinity map. A visual inspection of the location was made by the following representatives: Mr. R. B. Grove of New Mexico State University, Mr. Bob Moore of the Bureau of Land Management, and Mr. Greg Majkrzak with the United States Geological Survey.

Due to a request by the Bureau of Indian Affairs, this location was moved to the present site which is a non-standard location. The original drill site fell in an area which is to be irrigated and farmed as part of the Navajo Irrigation Project. The Bureau of Indian Affairs requested the location be moved 360' to the east so as to fall in the area of a main irrigation pipeline lateral so the well head would not interfere with the crawling sprinkler system. An application for a non-standard location is being prepared and will be submitted to the New Mexico Oil and Gas Conservation Commission.

The development plan for surface use is as follows:

Points 1, 2, 3, 4, 5, & 10 Vicinity map and drill site plat attached.

Point 6. Vicinity map. Water for drilling will be obtained from the San Juan River at the south edge of Farmington.

Point 7. A waste disposal pit will be provided for the garbage and trash. Location shown on the drill site plat.

Point 8. No camp.

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MAY 6 1976

OIL CON. COM.  
DIST. 3

U. S. Department of Interior  
Geological Survey  
May 5, 1976  
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Point 9. No air strip.

Point 11. If the well is a commercial producer, it will be equipped to facilitate producing operations. All drilling pits will be filled, the location leveled and areas reseeded except that used for day to day operations. In the event the well is a dry hole, all pits will be filled, location and well site reseeded in compliance with Bureau of Land Management specifications. During dry out time required for the reserve pit, it will be fenced to eliminate livestock entry.

Point 12. The drill site will lie on a heavily grazed flat. The vegetation consists of blue gramma, mormon tea, galleta, and snakeweed. As stated earlier the area is part of the N.I.I.P. and will be farmed in the future.

Should additional information be required, please advise.

Yours truly,

*William T. Jones*

W. T. Jones

WTJ;kj

Enclosures

