

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

30-045-22143

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 ☐

2. NAME OF OPERATOR
 Kirby Exploration Company

3. ADDRESS OF OPERATOR
 Box 1745, Houston, Texas 77001

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
 At surface
 990' FNL and 1650' FWL
 At proposed prod. zone

5. LEASE DESIGNATION AND SERIAL NO.
 NM 308

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
 Kirby Federal

9. WELL NO.
 1

10. FIELD AND POOL, OR WILDCAT
 WAW Extension

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 Sec 5, T26N, R13W

12. COUNTY OR PARISH
 San Juan

13. STATE
 New Mexico

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 24 miles south of Farmington, N.M.

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
 280.06

17. NO. OF ACRES ASSIGNED TO THIS WELL
 160.14

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.)
 6198 GR

22. APPROX. DATE WORK WILL START*
 August 25, 1976

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	100	75
6 1/4	4 1/2	10.5	1500	150

Move in rotary tools. Drill 12 1/4" hole to 100 feet. Set 8 5/8" casing and cement with 75 sacks. Drill 6 1/4" hole to 1500 feet. Run open hole logs to evaluate Picture Cliff formation. If commercial production is indicated, 4 1/4" casing will be set at 1500 feet and cemented with 150 sacks. If well is non-commercial, same will be plugged and abandoned with U.S.G.S. specifications. 6" 600 series blow-out preventers will be installed before drilling out from under surface pipe.

Gas under this lease is not committed to a contract.

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

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 TITLE Agent DATE 8-2-76
 (This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____
 APPROVED BY _____ TITLE _____ DATE _____
 CONDITIONS OF APPROVAL, IF ANY:

OK

Archaeological Clearance Survey Report

for

Kirby Exploration Co.

Location

Federal No. 1



Submitted by

Dr. J. Loring Haskell
Operations Director and
Principal Investigator
Agency of Conservation Archaeology

Prepared by

Pat Zarnowski

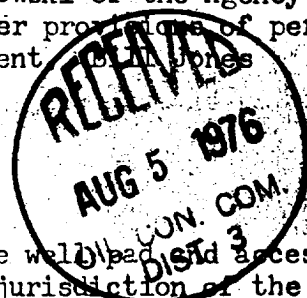
July 26, 1976

Introduction

The Agency of Conservation Archaeology of the San Juan County Museum Association and Eastern New Mexico University recently completed an archaeological clearance survey in the Hugh Lake area on land which is to be impacted by the scheduled construction of a well and access road by Kirby Exploration Company.

The survey was initiated at the request of Mr. Bill Jones of 3E Company, Inc. on July 21, 1976. It was administered by Mr. Jones and by Dr. J. Loring Haskell who serves as the principal investigator for the Division of Conservation Archaeology in Portales, New Mexico.

The field work was conducted on July 23, 1976 by Pat Zarnowski of the Agency of Conservation Archaeology in Farmington, New Mexico under provisions of permit number 76-MM-023 issued by the Bureau of Land Management. Bill Jones represented Kirby Exploration in the field.



Survey

The requested archaeological clearance survey involved one well pad and access road described below, which is located on land under the jurisdiction of the Bureau of Land Management. For specific details as to location, please refer to the attached copies of maps and plats and the recommendations section of this report.

The general procedure employed for this survey was to walk the area of proposed construction in a zig-zag manner. Any artifact found initiated a further search to determine whether it was an isolated find or was associated with an architectural feature or group of artifacts. Erosional gullies and arroyos were also inspected for evidence of subsurface cultural remains. Floral, faunal and geological observations were made to briefly describe the environmental situation.

Federal No. 1: The proposed location for this well is on the rolling plains on the bluffs south of Farmington. The soil is very sandy and sand dunes are scattered throughout. The predominant vegetation is Mormon tea, Ephedra viridis, prickly pear cacti, Opuntia sp., yucca, Yucca angustissima, and various herbs and grasses.

Cultural resources: None

Recommendations

Due to the lack of cultural resources on this proposed location, it is recommended that archaeological clearance be granted.

<u>Well</u>	<u>Area</u>	<u>Location</u>	<u>Clearance Status</u>
Federal No. 1	Pad: Approximately 100 feet by 100 feet. Road: 30 feet by 175 feet	990 feet from the North line, 1,650 feet from the West line, in the NW $\frac{1}{4}$ of Sec. 5, Township 26 North, Range 13 West, San Juan County, New Mexico. Map source: Hugh Lake U.S.G.S 7.5 minute quadrangle.	Recommended

**NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-102
Supersedes C-128
Effective 1-4-65

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

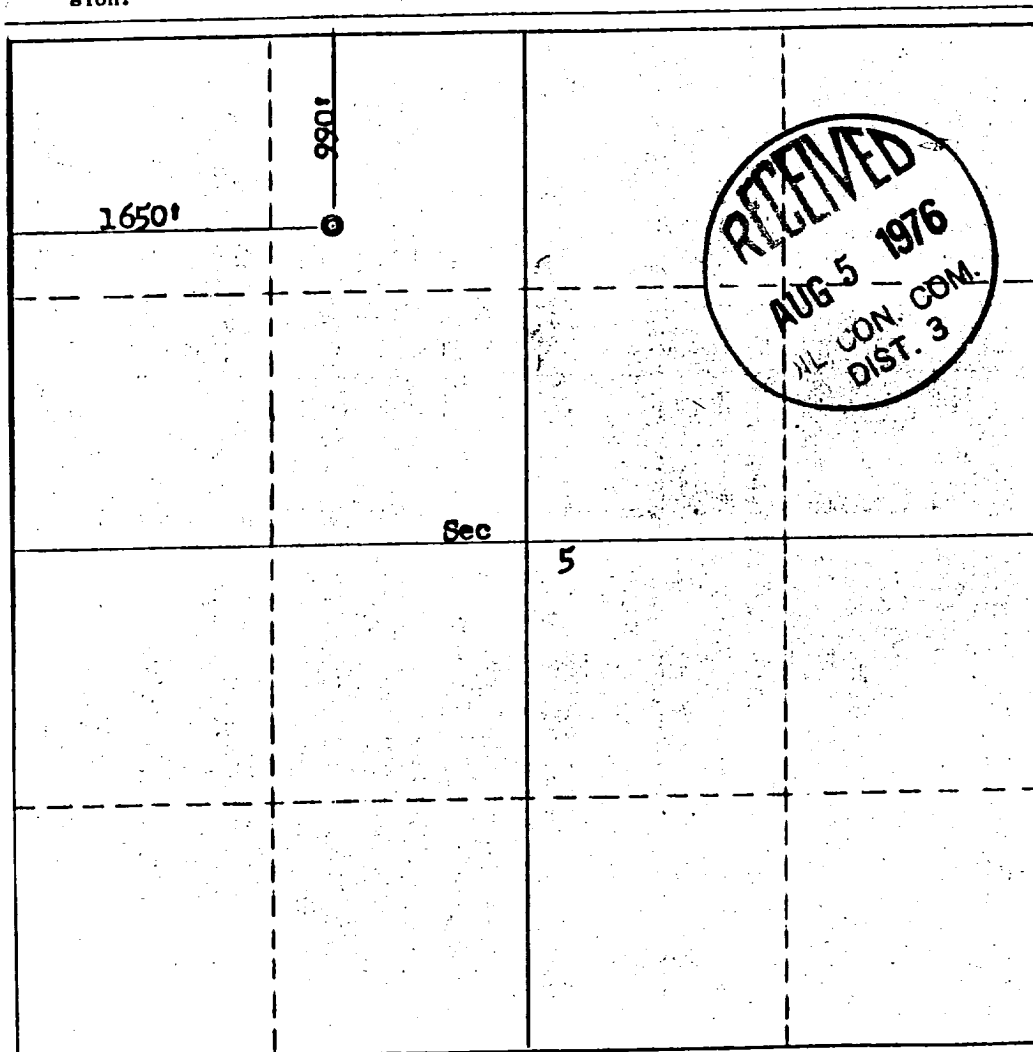
Operator Kirby Exploration Company			Lease Federal		Well No. 1
Unit Letter C	Section 5	Township 26N	Range 13W	County San Juan	
Actual Footage Location of Well: 990 feet from the North line and 1650 feet from the West line					
Ground Level Elev. 6198	Producing Formation		Pool	Dedicated Acreage Acres	

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.



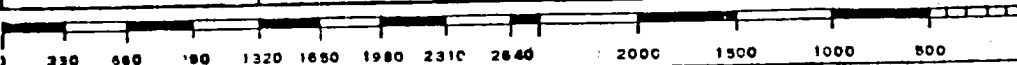
CERTIFICATION

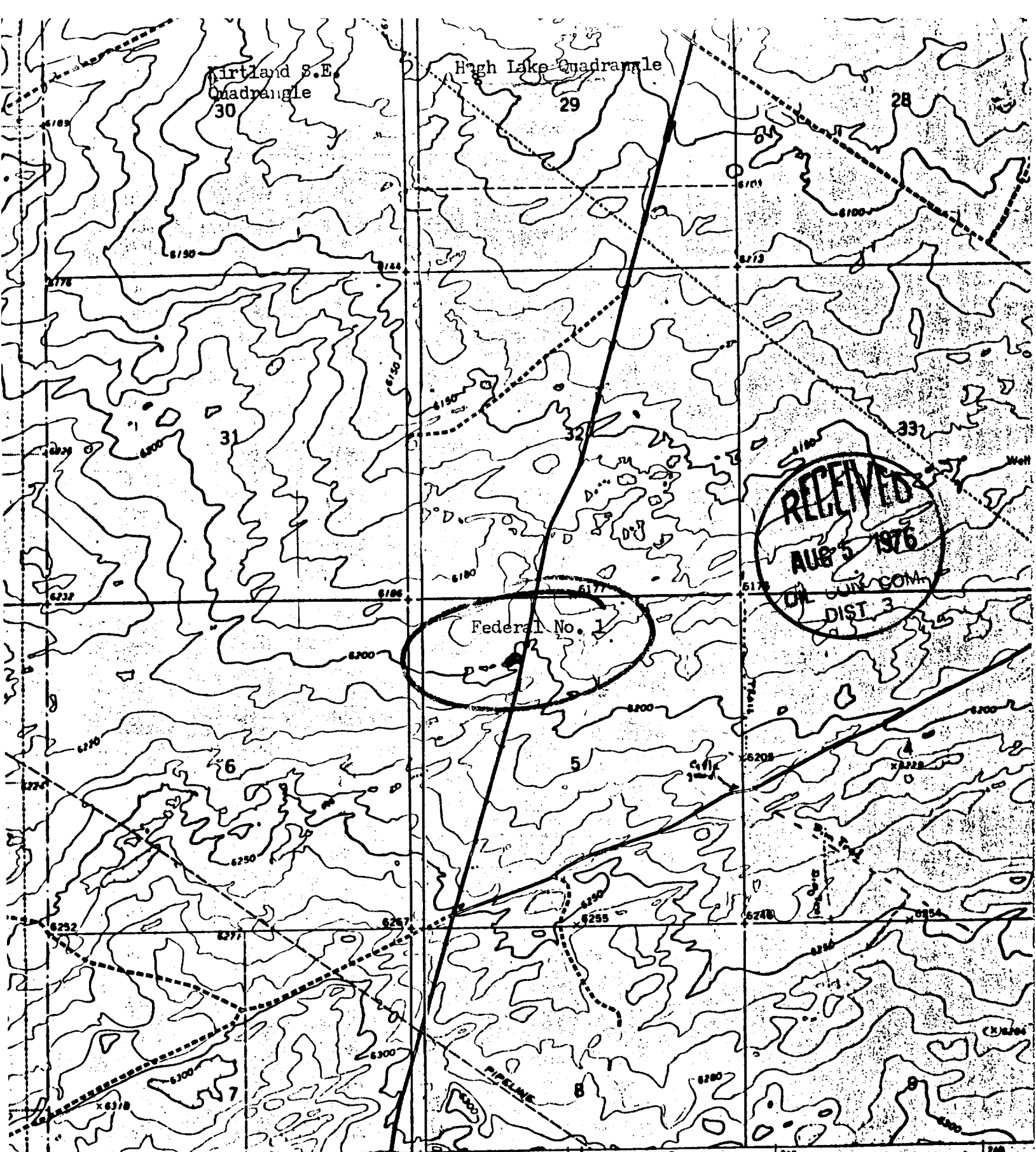
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name
Position
Company
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 July 22, 1976
Registered Professional Engineer and/or Land Surveyor <i>Fred B. Kerr, Jr.</i> Fred B. Kerr, Jr.
Certificate No. 3950





U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C. - 1975

108°15'

747 1380 000 FEET

748

749

14 W. R. 13 W.

Vicinity Map for
 KIRBY EXPLORATION COMPANY
 #1 Federal
 900' INL 1650' INL Sec 5-26N-13W N.M.P.M.
 San Juan County, New Mexico
 Scale: 1"=2000'

**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.

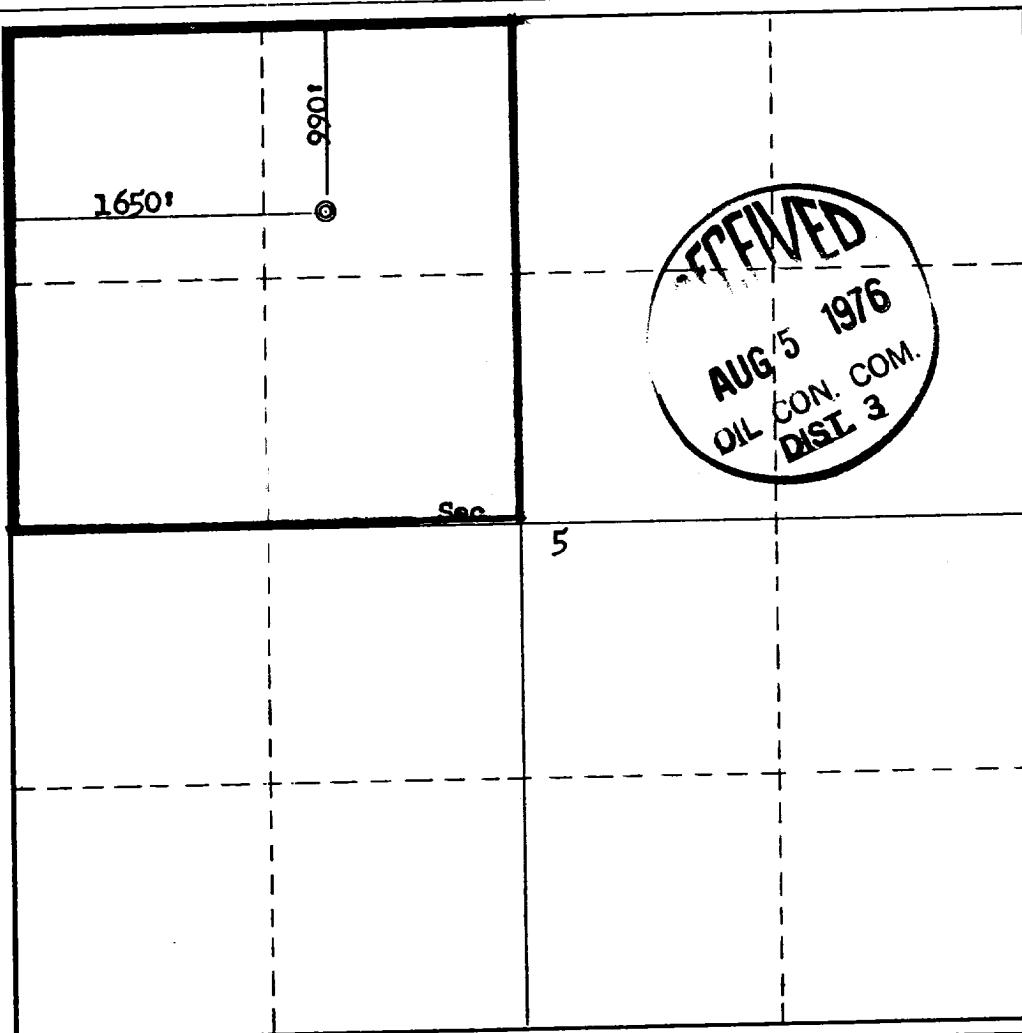
Operator Kirby Exploration Company			Lease Federal		Well No. 1
Unit Letter C	Section 5	Township 26N	Range 13W	County San Juan	
Actual Footage Location of Well: 990 feet from the North line and 1650 feet from the West line					
Ground Level Elev. 6198	Producing Formation Picture Cliff		Pool WAW Extension		Dedicated Acreage: 160.14 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 Company

Company

August 2, 1976

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

July 22, 1976

Registered Professional Engineer and/or Land Surveyor

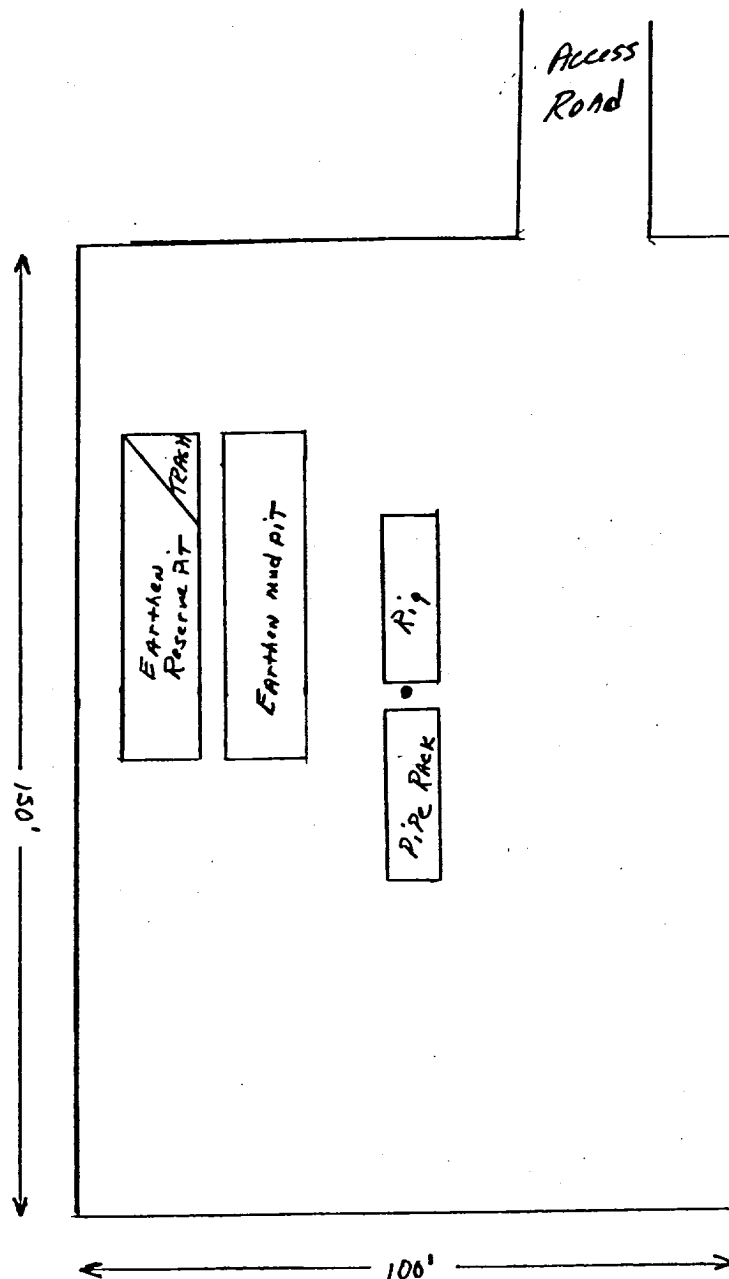
Fred B. Kerr, Jr.
Fred B. Kerr, Jr.

Certificate No.

3950

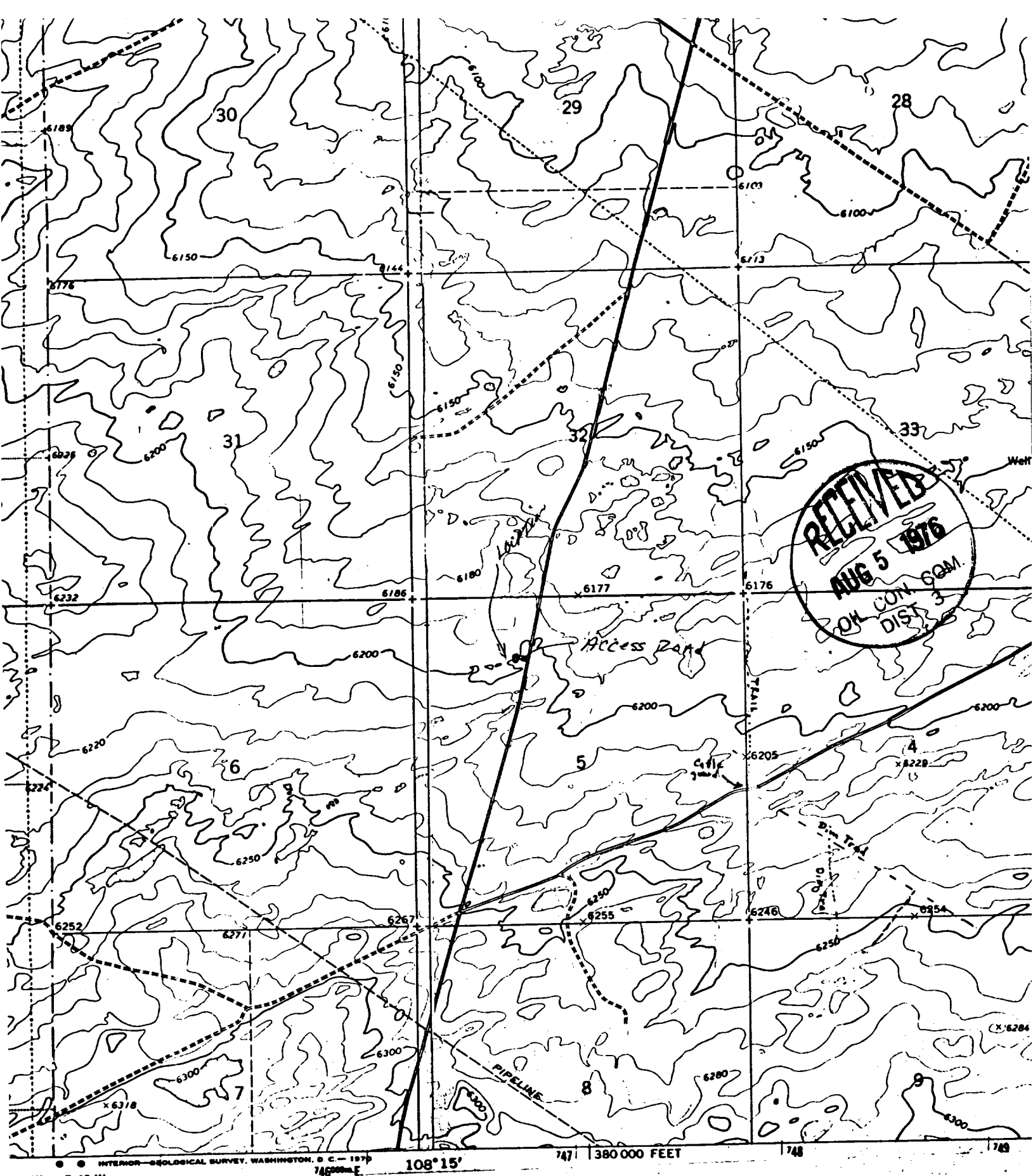
0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0

Well Site Plat



Scale 1" = 30'

Kirby Exploration Company
Kirby Federal #1
990' FNL and 1650' FWL
Sec 5 - 26N - 13W



Vicinity Map for
KIRBY EXPLORATION COMPANY

#1 Federal

990' FNL 1650' FWL Sec 5-26N-13W N.M.P.M.,
San Juan County, New Mexico

Scale: 1"=2000'

3E COMPANY, INC.

Engineering • Energy • Exploration

P. O. Box 190 — 505/327-4020

FARMINGTON, NEW MEXICO 87401

August 2, 1976



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

U. S. Department of Interior
Geological Survey
P.O. Box 959
Farmington, N.M. 87401

Attention: Mr. P. T. McGrath
District Engineer

RE: Development Plan for Surface Use
Kirby Exploration Company
Kirby Federal #1
990' FNL and 1650' FWL
Sec 5, T26N, R13W
WAW Picture Cliff
San Juan County, New Mexico

Gentlemen:

Attached is the "Application for Permit to Drill" (form #9-331C) for the subject well. Also enclosed are the following items: archaeological report, surveyor's plat, drill site plat and vicinity map. Mr. Bob Moore of Bureau of Land Management, Mr. Ray Swanson of the United States Geological Survey and Ms. Pat Zarnowski of the Agency of Conservation Archaeology have inspected the site.

The development plan for surface use is as follows:

Points 1, 2, 3, 4, 6, & 9 Vicinity map and drill site plat attached.

Point 5. Water for drilling will be trucked from the San Juan River approximately 24 miles to the north.

Point 7. A waste disposal pit will be provided for the garbage and trash. Location shown on drill site plat. Drilling fluids will be contained in reserve pit until such time as evaporation occurs and then pits will be covered.

Point 8. No camps or airstrip.

Point 10. Should the well be a commercial producer, it will be equipped to facilitate producing operations with all drilling pits filled, location leveled and well site reseeded in compliance with current Bureau of Land Management seeding requirements. During dry out time required for the reserve pit it will be fenced to eliminate livestock entry.

U.S. Department of Interior
August 2, 1976
Page 2

Point 11. The topography of the area is that of rolling plains. The location is on a flat area approximately 200 feet from a well traveled road. No trees are present with vegetation being normal for the climation condition.

Point 12. William T. Jones
3E Company, Inc.
P.O. Box 190
Farmington, N.M. 87401
Phone: 505-347-4020

Point 13. 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 the 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 Kirby Exploration Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

8-3-76

William T. Jones
William T. Jones, Agent

Should further information be desired, please advise.

Yours truly,

William T. Jones

William T. Jones

WTJ:kj

Attachments

