

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

30-045-2225

5. LEASE DESIGNATION AND SERIAL NO.  
USNM-12020

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Gallegos

9. WELL NO.

4

10. FIELD AND POOL, OR WILDCAT

WAW Pictured Cliff

11. SEC., T., R., M., OR BLK.  
AND SURVEY OR AREA

Sec 26, T27N, R13W

12. COUNTY OR PARISH

13. STATE

San Juan

New Mexico

## 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 Company

## 3. ADDRESS OF OPERATOR

P.O. Box 1745, Houston, Texas 77001

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

At surface

1850' FNL &amp; 790' FEL

At proposed prod. zone

Same

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

20 miles south of Farmington, New Mexico

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drig. unit line, if any)

790'

## 16. NO. OF ACRES IN LEASE

640

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

160

## 18. DISTANCE FROM PROPOSED LOCATION\*

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

2500'

## 19. PROPOSED DEPTH

1550

## 20. ROTARY OR CABLE TOOLS

rotary

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

5992 GR

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

12-23-76

## 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	20.0	90'	75 sacks
6 1/2	4 1/2	9.5	1550'	150 sacks

Move in rotary tools. Set 8 5/8" casing at 90 feet and cement with 75 sacks. Install and test 6" series 600 blow-out-preventers. Drill 6 1/2" hole to 1550 feet. Run open hole logs to evaluate Pictured Cliff formation. If well is commercial, 4 1/2" casing will be run and cemented with 150 sacks. If well is non-commercial, same will be plugged and abandoned according to U.S.G.S. instruction.

Gas under this lease is committed to a contract.

NOV 16 1976

U. S. GEOLOGICAL SURVEY

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 J. Jones/pj  
William J. Jones

TITLE

Agent

DATE

11-15-76

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

OK

\*See Instructions On Reverse Side

NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102  
Superseded 6-128  
Effective 1-1-55

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

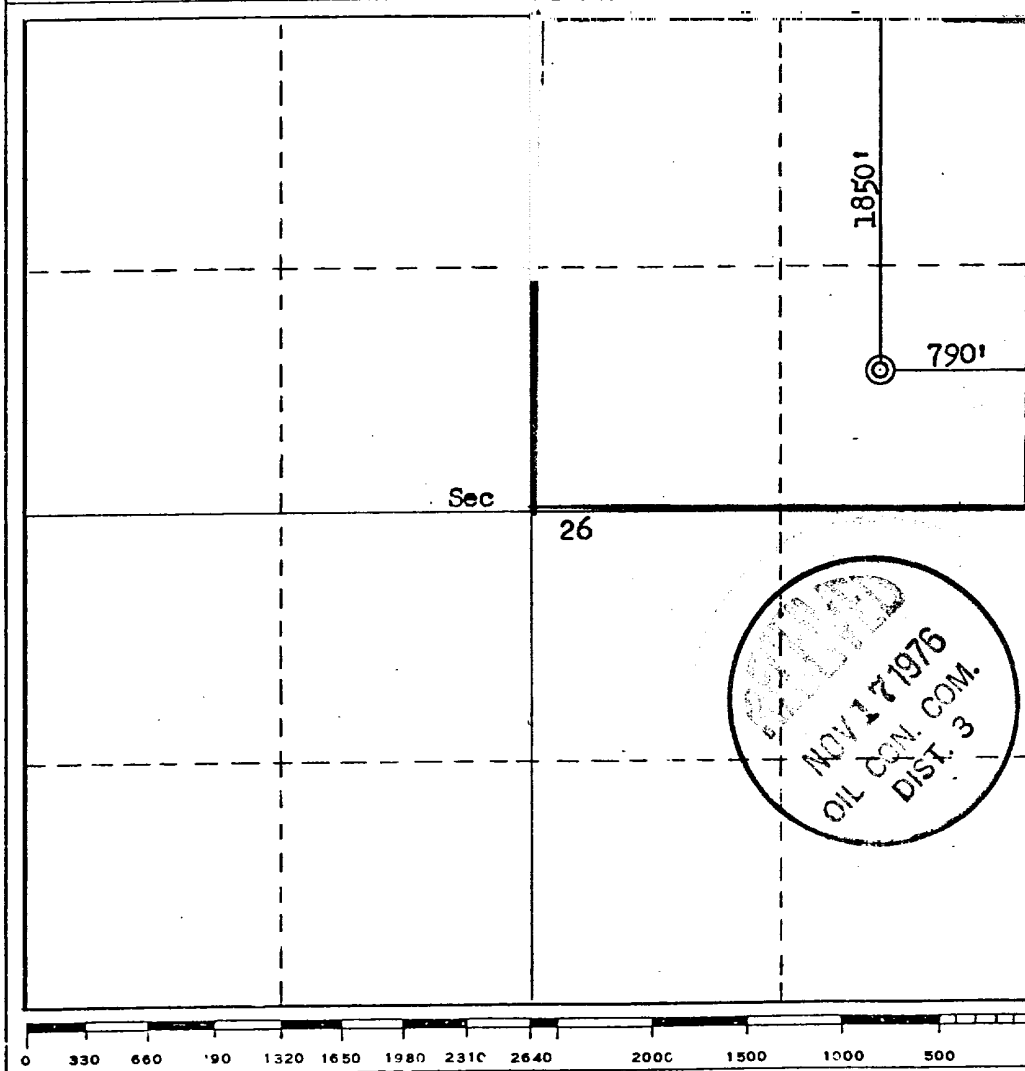
Operator <b>Kirby Exploration Company</b>			Lease <b>Gallegos</b>		Well No. <b>4</b>
Unit Letter <b>H</b>	Section <b>26</b>	Township <b>27N</b>	Range <b>13W</b>	County <b>San Juan</b>	
Actual Footage Location of Well: <b>1850</b> feet from the <b>North</b> line and <b>790</b> feet from the <b>East</b> line					
Ground Level Elev. <b>5992</b>	Producing Formation <b>Pictured Cliff</b>		Pool <b>WAW</b>	Dedicated Acreage: <b>160</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.

William T. Jones

Name <b>Agent</b>
Position <b>Kirby Exploration Company</b>
Company <b>November 15, 1976</b>
Date <i>William T. Jones/kj</i>

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 <b>November 15, 1976</b>
Registered Professional Engineer and/or Land Surveyor <i>Fred B. Kerr Jr.</i> <b>Fred B. Kerr Jr.</b>
Certificate No. <b>3950</b>

Archaeological Clearance Survey Report

for

Kirby Exploration Co.

Locations

Gallegos No. 2

Gallegos No. 3

Gallegos No. 4

Gallegos No. 5

Submitted by

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

Prepared by

Pat Zarnowski

November 9, 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 on the bluffs south of the City of Farmington. This is on land which is to be impacted by the scheduled construction of four wells and access roads by Kirby Exploration Company.

The survey was initiated at the request of Mr. Bill Jones of 3E Company, Inc. on November 8, 1976. It was administered by Mr. Jones and by Dr. J. Loring Haskell, who serves as the principal investigator for the Agency of Conservation Archaeology in Portales, New Mexico.

The field work was conducted by Ms. Pat Zarnowski of the Agency of Conservation Archaeology in Farmington, New Mexico on November 8, 1976 under provisions of permit number 76-NM-023, which expires March 7, 1977. Other representatives in the field were Mr. Bill Jones of 3E Company, Inc., Mr. Dave Kinsey of Allen Construction, Mr. Bob Moore of the Bureau of Land Management, and Mr. Ray Swanson and Mr. Fred Edwards of the United States Geological Survey.

## Survey

The requested archaeological clearance survey involved the four well locations described below, all located on land under the jurisdiction of the Bureau of Land Management. For specific details of location please see the attached copies of maps and the Recommendations section of this report.

The general survey procedure used was to walk the proposed area of construction in a zigzag manner and to visually inspect the surface for signs of archaeological material. Erosional gullies and arroyos were also inspected for evidence of subsurface cultural remains. Any artifact found initiated a further search to determine whether it was an isolated find or was in association with architectural features of groups of artifacts. Floral faunal, and geological observations were made to briefly describe the environmental situation.

### Gallegos No. 2

Environment: This well is to be located approximately one mile southwest of Hugh Lake. The terrain consists of gently rolling knolls and areas of scattered sand dunes and ridges. The main vegetation here is Mormon tea (Ephedra sp.), snakeweed (Gutierrezia sarothrae), galleta (Hilaria jamesii), and scattered prickly pear cacti (Opuntia sp.) and yucca (Yucca angustissima). The access road will take off from a windmill, where cattle graze, in a westerly direction for approximately 400 feet to the new well. Evidence of small wildlife was noted.

Cultural resources: None.

Gallegos No. 3

Environment: This well is about three quarters of a mile north of the Gallegos No. 2 well. The terrain is the same, and also the vegetation. The road was originally flagged to come in from the south, but Mr. Moore of the Bureau of Land Management felt it would be better to come in from the southwest at the section line. Both routes were surveyed.

Cultural resources: No artifacts found.

Gallegos No. 4

Environment: The terrain and vegetation for this well location are the same as described for the Gallegos No. 2 and it is to be located about three quarters of a mile east of Gallegos No. 3. The access road will follow a very old dirt road for the major portion of the route and will take off from it and go west then north to the new location.

Cultural resources: No archaeological material located.

Gallegos No. 5

Environment: The location for this well is about 3200 feet south of Gallegos No. 4. The terrain here is more flat with less sand dunes. The vegetation, however, is generally the same. No access road will be needed as the well will be placed on an area already disturbed, at the edge of an existing well pad.

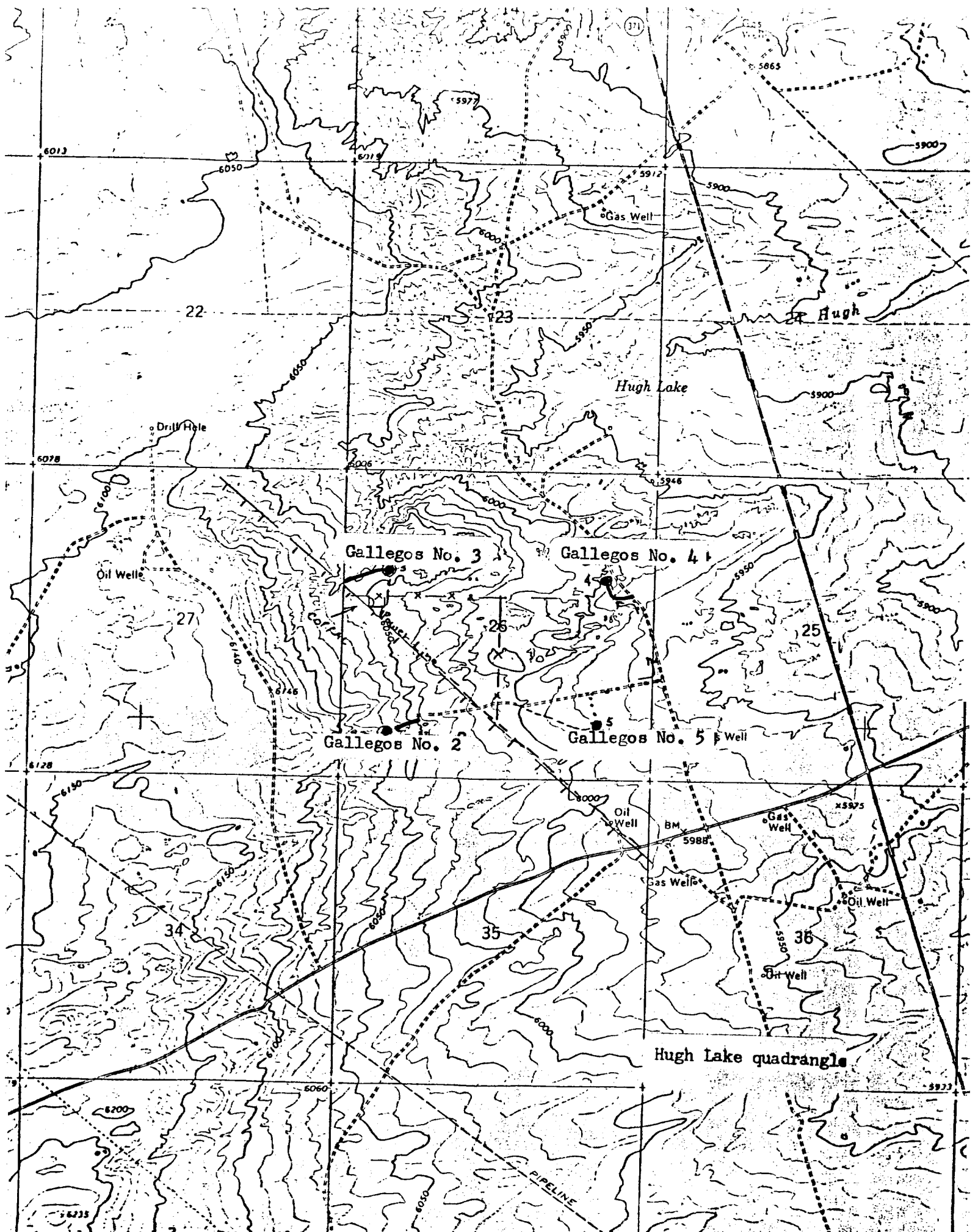
Cultural resources: None.

Recommendations

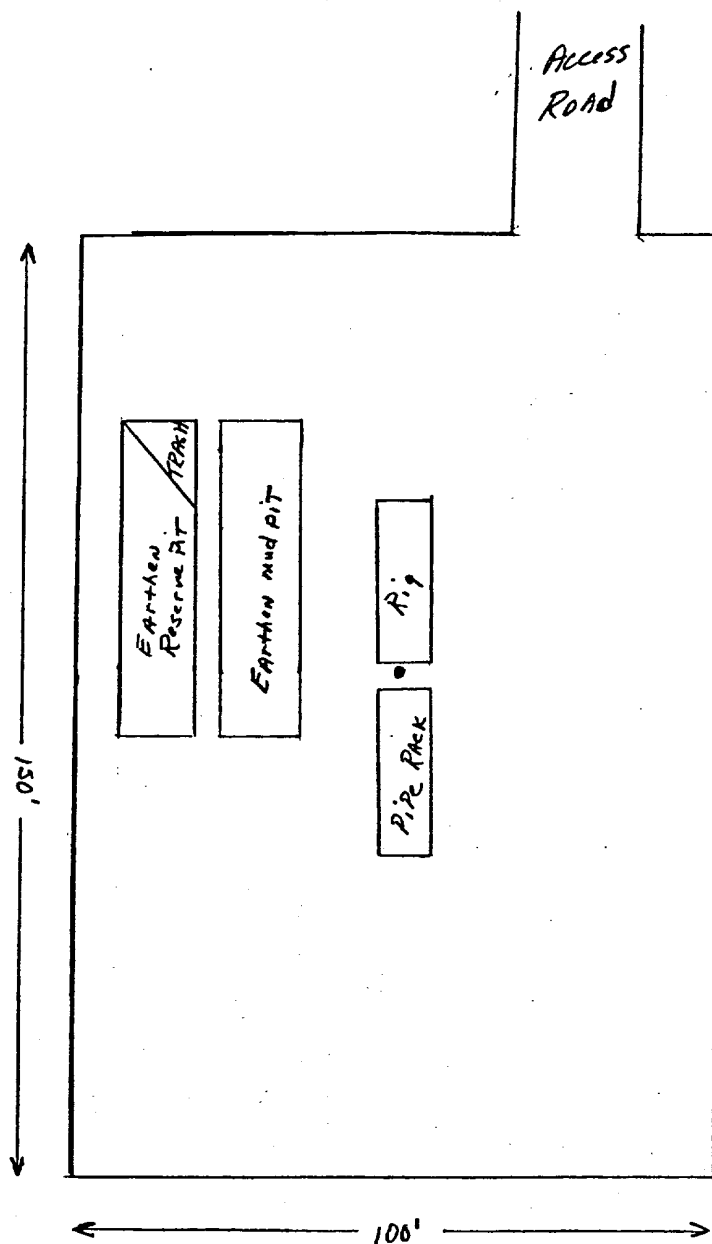
<u>Well</u>	<u>Area</u>	<u>Location</u>	<u>Clearance Status</u>
Gallegos No. 2	Pad: 100' x 150' Road: 30' x 500'	790 feet from the South line and 790 feet from the West line in the Southwest $\frac{1}{4}$ of the Southwest $\frac{1}{4}$ of Section 26, Township 27 North, Range 13 West, San Juan County, New Mexico. Map source: U. S. G. S. 7.5 minute Hugh Lake quadrangle.	Recommended
Gallegos No. 3	Pad: 100' x 150' Road: 30' x 1,200'	1,700 feet from the North line and 790 feet from the West line in the Southwest $\frac{1}{4}$ of the Northwest $\frac{1}{4}$ of Section 26, Township 27 North, Range 13 West, San Juan County, New Mexico. Map source: U. S. G. S. 7.5 minute Hugh Lake quadrangle.	Recommended

<u>Well</u>	<u>Area</u>	<u>Location</u>	<u>Clearance Status</u>
Gallegos No. 4	Pad: 100' x 150' Road: 30' x 400'	1,850 feet from the North line and 790 feet from the East line in the Southeast $\frac{1}{4}$ of the Northeast $\frac{1}{4}$ of Section 26, Township 27 North, Range 13 West, San Juan County, New Mexico. Map source: U. S. G. S. 7.5 minute Hugh Lake quadrangle.	Recommended
Gallegos No. 5	Pad: 100' x 150' Road: None	980 feet from the South line and 880 feet from the East line in the Southeast $\frac{1}{4}$ of the Southeast $\frac{1}{4}$ of Section 26, Township 27 North, Range 13 West, San Juan County, New Mexico. Map source: U. S. G. S. 7.5 minute Hugh Lake quadrangle.	Recommended

Due to the lack of cultural material encountered in any of these locations, it is recommended that archaeological clearance be granted. It is felt that construction of these wells will have neither direct nor indirect impact on our cultural resources.



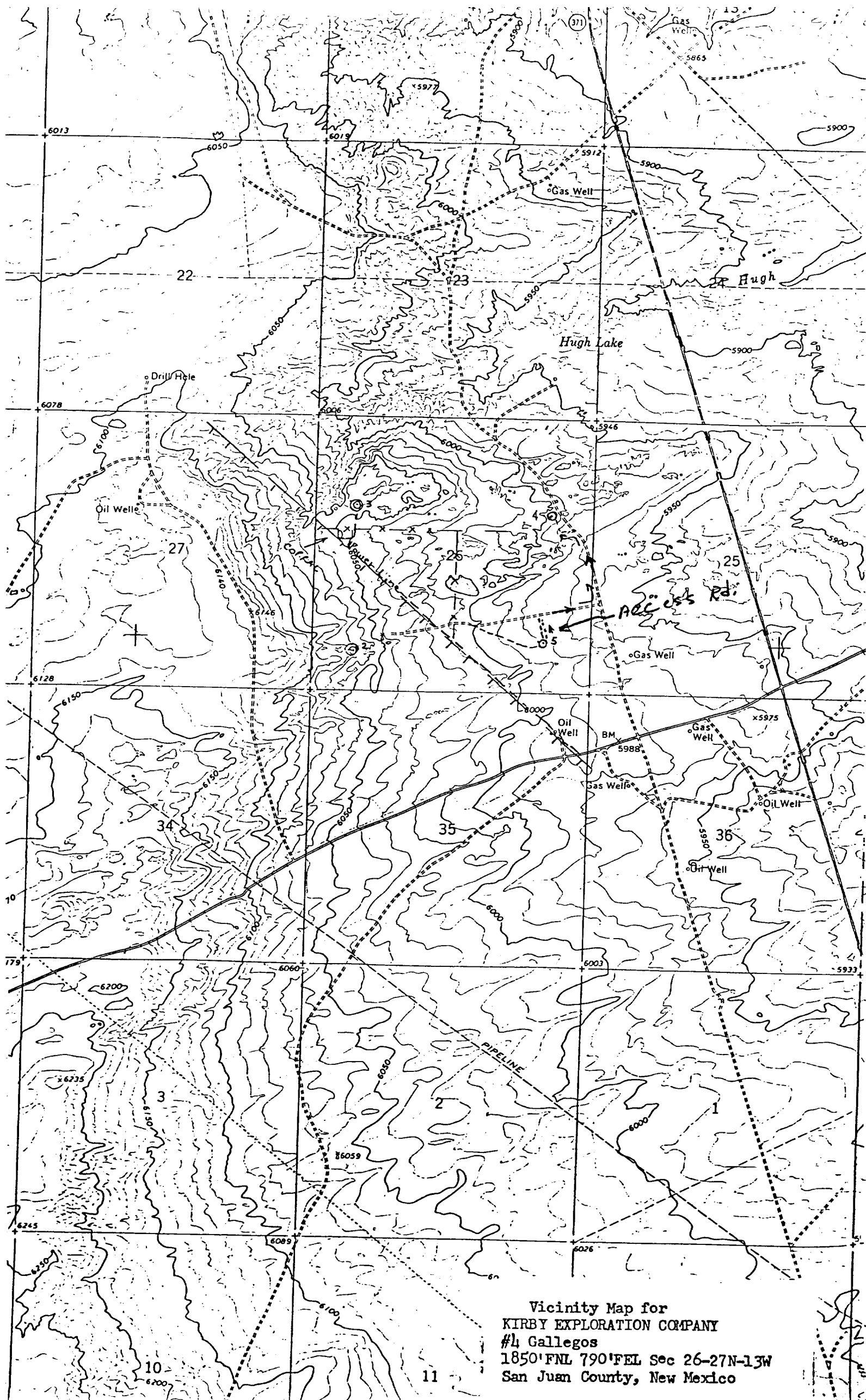
# Well Site PLAT



SCALE 1" = 30'

Kirby Exploration Company  
Gallegos #4  
1850' FNL & 790' FEL  
Sec 26, T27N, R13W  
San Juan County, New Mexico





# 3E COMPANY, INC.

*Engineering • Energy • Exploration*

P. O. Box 190    —:—    505/327-4020

FARMINGTON, NEW MEXICO 87401

November 15, 1976

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  
Gallegos #4  
1850' FNL & 790' FEL  
Sec 26, T27N, R13W  
WAW Pictured Cliff  
San Juan County, New Mexico

Gentlemen:

Attached for your approval is the "Application for Permit to Drill" (form #9-331C) for the subject well. Also enclosed, as support data for the Development Plan for Surface Use, are the following reports and plats: archaeological report, surveyor's plat, drill site plat and vicinity map. Ms. Pat Zarnowski of the Agency of Conservation Archaeology, Mr. Bob Moore of the BLM and Mr. Ray Swanson of the U.S.G.S. have inspected the location.

The development plan for surface use is as follows:

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

Point 5 Water for drilling will be trucked from the San Juan River approximately 18 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 fluid will be contained in the reserve pit until such time as evaporation occurs and then the pits will be covered. During dry out time the pits will be fenced to eliminate livestock entry.

Point 8 No camps or airstrip.

- Point 10 Should the subject well be a commercial producer, it will be equipped to facilitate producing operations, with all drilling pits filled, location leveled with reseeding of the area not used for day to day operations. In the event the well is a dry hole, all pits will be filled, location leveled and reseeded. All seeding will be done between July 1 and September 15 with equipment specified by the BLM. The seed mixture will be that specified for Area III in the Farmington Resource Area.
- Point 11 The topography of the general area is that of rolling knolls and sand dunes. No trees are present and vegetation is normal for climatic conditions. The access road (see vicinity map) will follow a very old dirt road for the major portion of the route.
- Point 12 William T. Jones  
3E Company, Inc.  
P.O. Box 190  
Farmington, New Mexico 87401  
505-327-4020
- Point 13 I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite 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 Kirby Exploration Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

November 15, 1976

William T. Jones  
William T. Jones, Agent

Should further information be required, please advise.

Yours truly,

William T. Jones  
William T. Jones

WTJ:st

Attachments