

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. 4532-1	
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR Kirby Exploration Company		7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR P.O. Box 1745, Houston, Texas 77001		8. FARM OR LEASE NAME Alley Federal 4	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 1620' FSL & 840' FWL At proposed prod. zone Same		9. WELL NO. 2	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 5 miles NE of Nageeze, New Mexico		10. FIELD AND POOL, OR WILDCAT Wildcat	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec 4, 24N - 8W	
16. NO. OF ACRES IN LEASE 644.42		12. COUNTY OR PARISH San Juan	
17. NO. OF ACRES ASSIGNED TO THIS WELL 160		13. STATE New Mexico	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.		19. PROPOSED DEPTH 2300'	
20. ROTARY OR CABLE TOOLS Rotary		21. APPROX. DATE WORK WILL START* April 5, 1977	
22. ELEVATIONS (Show whether DF, RT, GR, etc.) 6901 GL		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#	90'	50 sacks class "B" + 2% CaCl ₂
6 3/4	4 1/2	9.5#	2300'	200 sacks class "B"

Move in rotary tools. Drill 12 1/4" hole to 90 feet. Set 90 feet of new 8 5/8" casing and cement as above. Wait on cement 12 hours. Install 6" 900 series blow out preventers and test. Drill 6 3/4" hole to 2300 feet. No abnormal pressure or temperature is expected. Mud system will be gel-chem weighing 9-9.2# per gallon, W. L. 8-10 c.c. and viscosity of 30-40 seconds per quart. Open hole logging will consist of IES, FDC-CNL and GR Caliper logs. If commercial, 4 1/2" casing will be run and cemented as above. If non-commercial, plug and abandonment will follow U.S.G.S. specifications.

Gas under this lease is not committed to a 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 John Alexander TITLE Agent DATE 3-24-77
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

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.

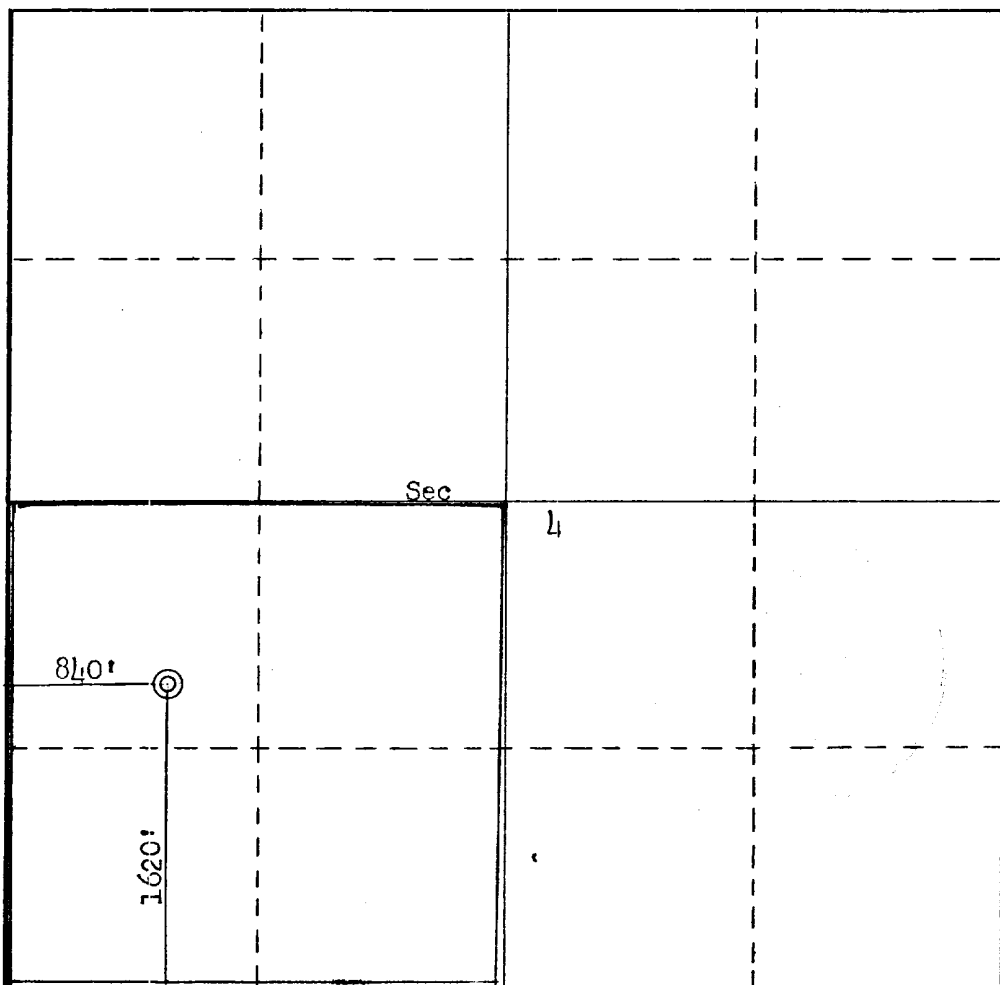
Operator Kirby Exploration Company			Lease Alley-Federal 4		Well No. 2
Unit Letter L	Section 4	Township 24N	Range 8W	County San Juan	
Actual Footage Location of Well: 1620 feet from the South line and 840 feet from the West line					
Ground Level Elev. 6901	Producing Formation Pictured Cliff		Pool Wildcat	Dedicated Acreage: 160 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.

John Alexander

Name

Agent

Position

Kirby Exploration Company

Company

3-24-77

Date

John Alexander

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

March 11, 1977

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

3E COMPANY, INC.

Engineering • Energy • Exploration

P. O. Box 190 —:— 505/327-4020

FARMINGTON, NEW MEXICO 87401

March 24, 1977

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

Attention: Mr. P. T. McGrath
District Engineer

RE: Development Plan for Surface Use
Kirby Exploration Company
Alley Federal ~~4~~ 4
1620' FSL & 840' FWL
Sec 4 - 24N - 8W
Wildcat
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: surveyor's plat, drill site plat and vicinity map. The archaeological report will follow under separate cover. Ms. Zarnowski gave oral approval of location. Mr. Bob Moore of Bureau of Land Management, Mr. Don Miller 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, 3, 4, 6, & 9 Vicinity map and drill site plat attached.

Point 2. Water bars will be used on roads when necessary.

Point 5. Water for drilling will be trucked from Chapman's water hole approximately 15 miles to the south.

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.

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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. All facilities will be painted green: Federal Standard 595-34127.

Point 11. The location is on a narrow ridge flanked by steep slopes to the east and west. Some small trees and native vegetation cover the area. The access road will pass through the Alley Federal #1 location, cross the small valley between the two locations then follow the ridge line.

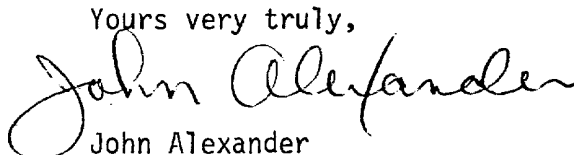
Point 12. John Alexander
3E Company, Inc.
P.O. Box 190
Farmington, NM 87401
Phone: 505-327-4020

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.

3-24-77


John Alexander

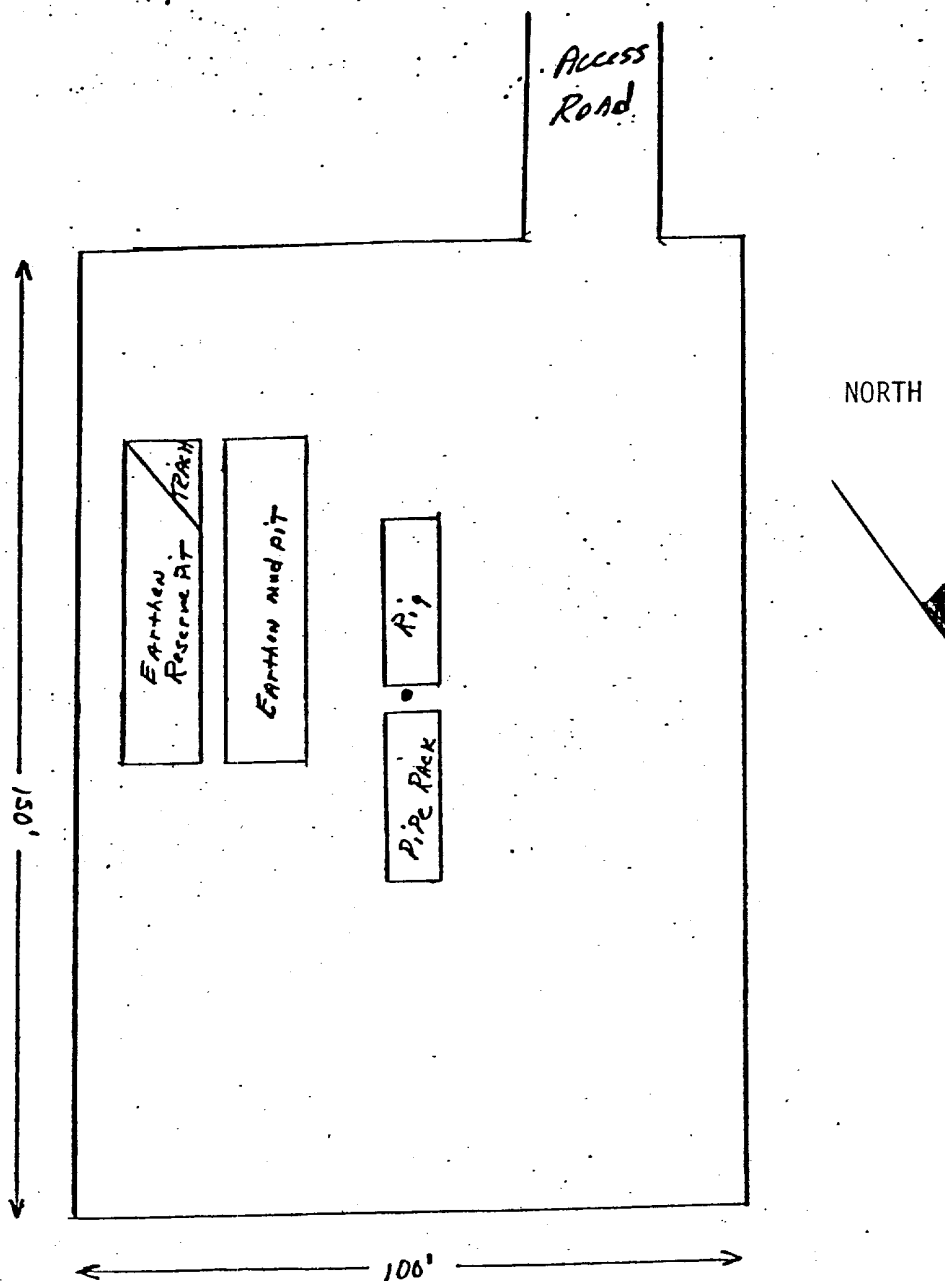
Should further information be desired, please advise.

Yours very truly,

John Alexander

JA:st

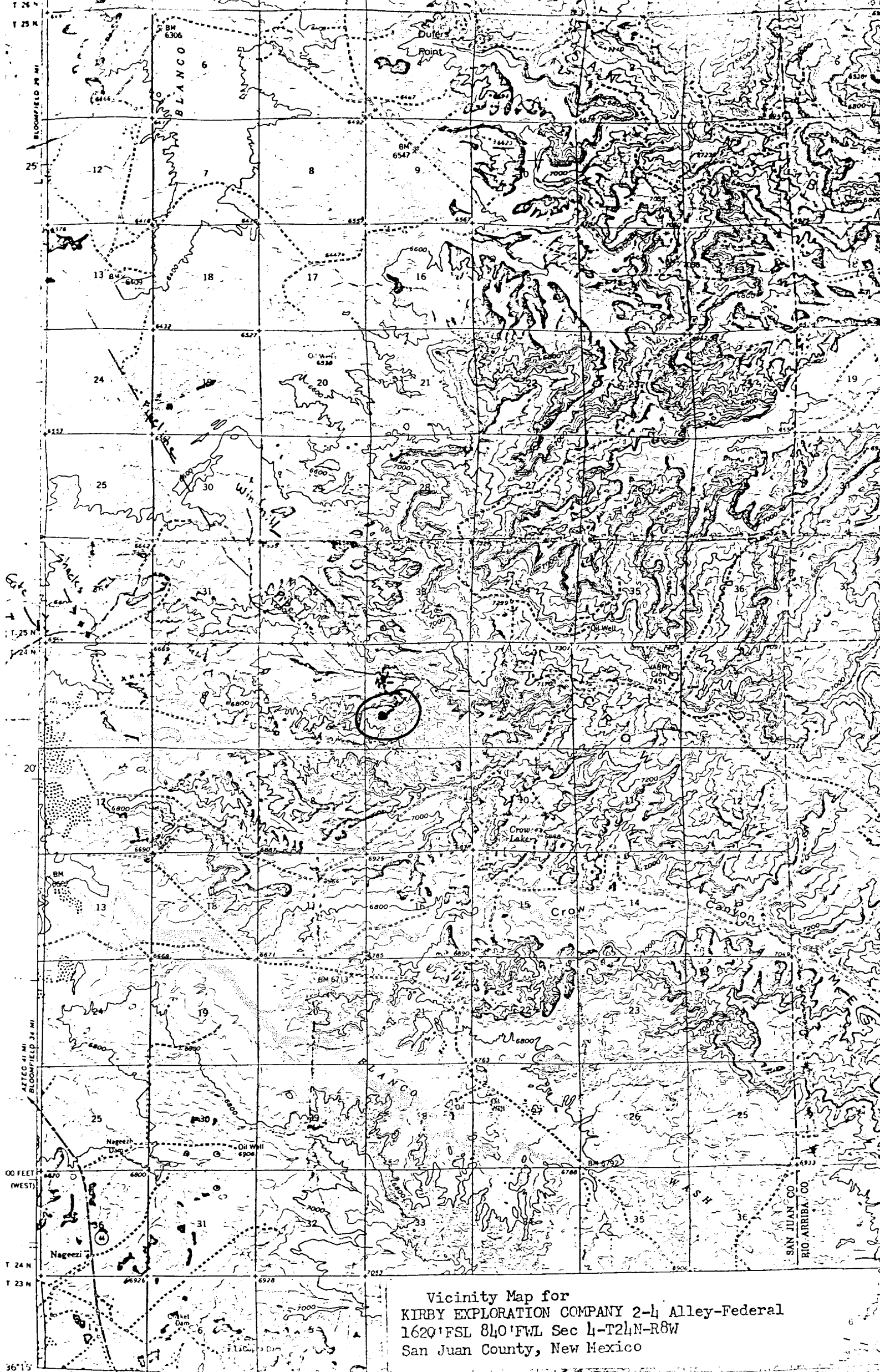
Attachments

Well Site PLAT



Scale 1" = 30'

Kirby Exploration Company
Alley Federal #2-4
1620' FSL & 840' FWL
Sec 4 - 24N - 8W
San Juan County, New Mexico



Vicinity Map for
KIRBY EXPLORATION COMPANY 2-4 Alley-Federal
1620'FSL 840'FWL Sec 4-T24N-R8W
San Juan County, New Mexico