

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. NM-16473																
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <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 Hanlad Federal																
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 1450' FNL & 1450' FWL At proposed prod. zone same		9. WELL NO. 1																
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 25 miles south of Farmington, New Mexico		10. FIELD AND POOL, OR WILDCAT Nipp Pictured Cliff																
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 31, T26N, R12W																
16. NO. OF ACRES IN LEASE 476.18		12. COUNTY OR PARISH San Juan																
17. NO. OF ACRES ASSIGNED TO THIS WELL 160 157.41		13. STATE New Mexico																
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.		19. PROPOSED DEPTH 1300'																
20. ROTARY OR CABLE TOOLS rotary		21. APPROX. DATE WORK WILL START* July 27, 1977																
22. ELEVATIONS (Show whether DF, RT, GR, etc.) 6145' GR		23. PROPOSED CASING AND CEMENTING PROGRAM																
<table border="1"><thead><tr><th>SIZE OF HOLE</th><th>SIZE OF CASING</th><th>WEIGHT PER FOOT</th><th>SETTING DEPTH</th><th>QUANTITY OF CEMENT</th></tr></thead><tbody><tr><td>12 1/4</td><td>8 5/8</td><td>24#</td><td>50'</td><td>100 sacks class "B"</td></tr><tr><td>6 3/4</td><td>4 1/2</td><td>10.5#</td><td>1300'</td><td>200 sacks class "B"</td></tr></tbody></table>				SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT	12 1/4	8 5/8	24#	50'	100 sacks class "B"	6 3/4	4 1/2	10.5#	1300'	200 sacks class "B"
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Spud 12 1/4" hole with native mud. Drill to 50', run and cement 8 5/8 casing as above.

Drill 6 3/4" hole from under surface casing, after installing 6" 900 series blow out preventer. Approximate mud properties are: wt. 9.0#, vis 35 seconds per quart and water loss 10± cc per 30 minutes. The 4 1/2" casing will be set at 1300' and cemented as above.

Open hole logs will be IES, FDC/CNL with GR and Caliper.

If the well is non-commercial it will be plugged in accordance with U.S.G.S. specifications.

Gas under this lease is 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
(This space for Federal or State office use)

TITLE

Agent

DATE

7-19-77

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

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 Kirby Exploration Company			Lease Hanlad-Federal		Well No. 1
Unit Letter F	Section 31	Township 26N	Range 12W	County San Juan	
Actual Footage Location of Well: 1450 feet from the North line and 1450 feet from the West line					
Ground Level Elev. 6145	Producing Formation Pictured Cliff		Pool Nipp Pictured Cliff	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
July 19, 1977

Date
John Alexander

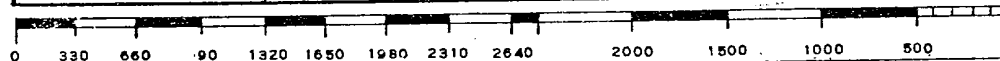
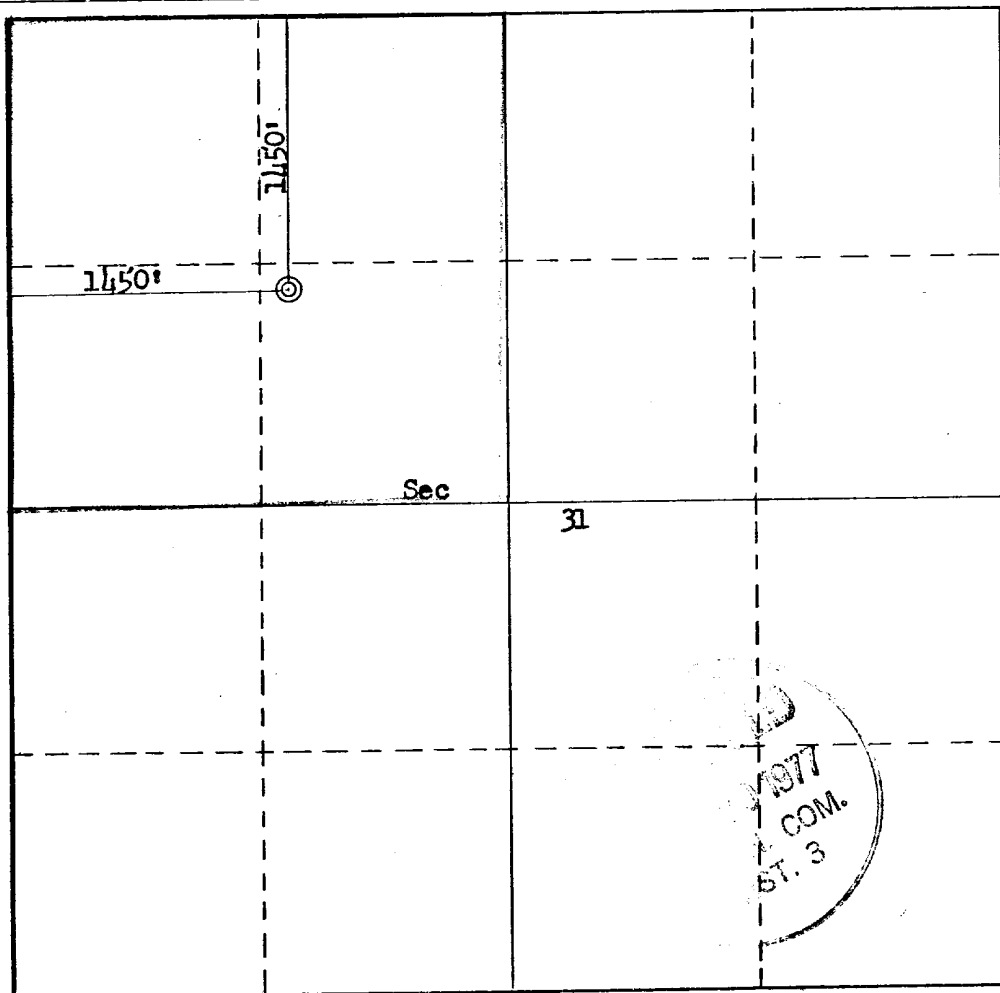
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
July 17, 1977

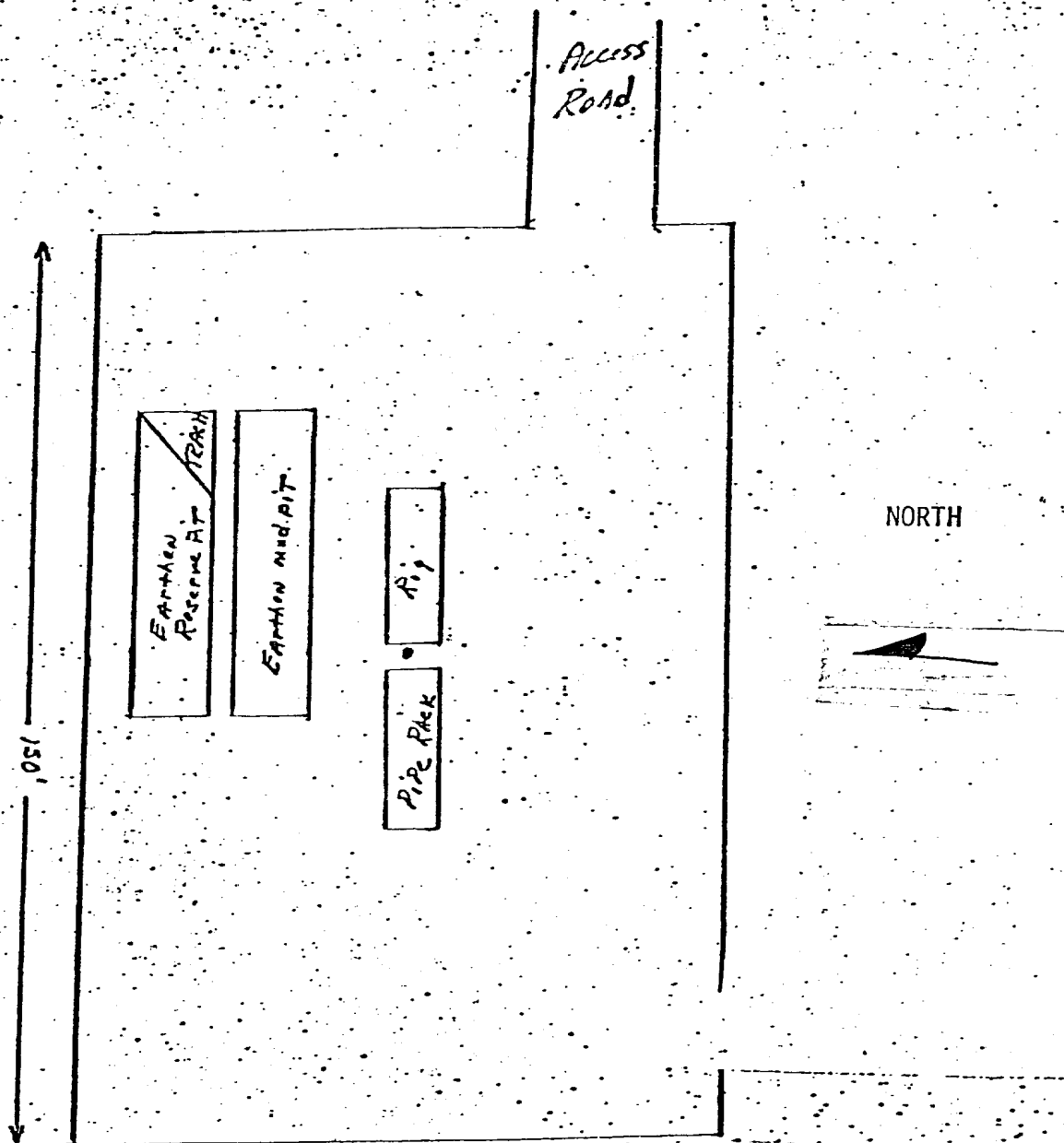
Registered Professional Engineer,
and/or Land Surveyor

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

Certificate No.
3950

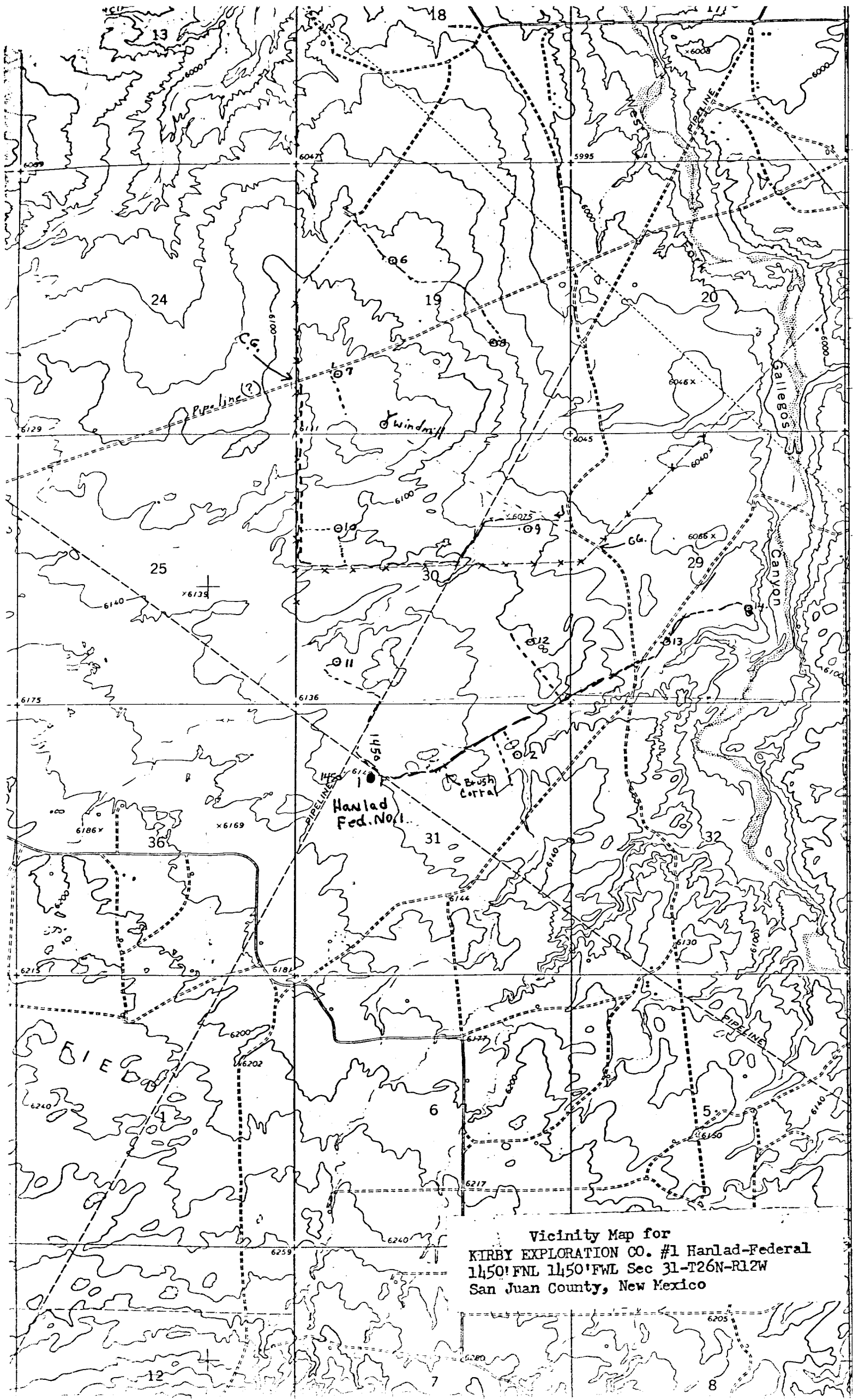


Well Site Plat



Scale 1" = 30'

KIRBY EXPLORATION COMPANY
HANLAD FEDERAL #1
1450' FNL & 1450' FWL
Sec 31, T26N, R12W
Nipp Pictured Cliff
San Juan County, New Mexico



Vicinity Map for
KIRBY EXPLORATION CO. #1 Hanlad-Federal
11450' FNL 11450' FWL Sec 31-T26N-R12W
San Juan County, New Mexico

3E COMPANY, INC.

Engineering • Energy • Exploration

P. O. Box 190 —:— 505/327-4020

FARMINGTON, NEW MEXICO 87401

July 19, 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
Hanlad Federal #1
1450' FNL & 1450' FWL
Sec 31, T26N, R12W
Nipp Pictured 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: surveyor's plat, drill site plat, vicinity map and archaeologists report. Mr. Bob Moore of the Bureau of Land Management, Mr. Lee Freeman 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 all roads where necessary.

Point 5. Water for drilling will be trucked from the San Juan River approximately 25 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.

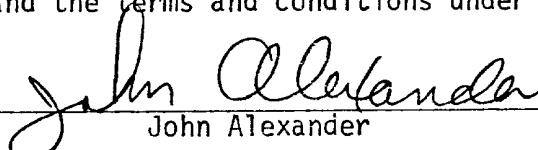
Point 10. Should the well be a commercial producer, it will be equipped to facilitate producing operations with all drilling pits filled, location leveled and well site reseeded in compliance with current Bureau of Land Management seeding requirements. During dry out time required for the reserve pit it will be fenced to eliminate livestock entry. All facilities will be painted grey: Federal Standard 595-36357

Point 11. The location is on a sandy hill. Principle vegetation is Mormon Tea, Blue Gramma, Ring Muhly and Prickly Pear. Access to location will be via 100' of new road from an existing road to the east.

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

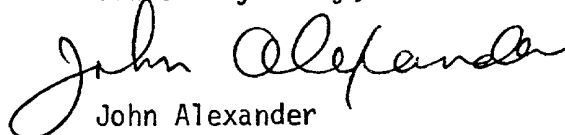
Point 13. I hereby certify that I or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in the plan are to the best of my knowledge, true and correct; and, that the work associated 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.

7-19-77


John Alexander

Should further information be desired, please advise.

Yours very truly,


John Alexander

JA:st

Attachments

