

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

30-085-22477

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 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

1190' FSL & 1600' FWL

At proposed prod. zone

Same

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

27 miles south of Farmington, NM

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest orig. unit line, if any)

16. NO. OF ACRES IN LEASE

2227.6

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH

1250'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

160

20. ROTARY OR CABLE TOOLS

Rotary

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

6029' GL

22. APPROX. DATE WORK WILL START*

April 18, 1977

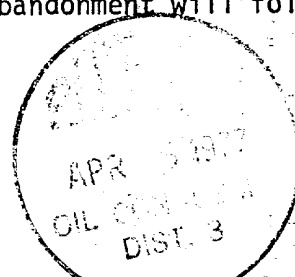
23.

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#	50'	50 sacks class "B" + 2% CaCl ₂
6 3/4	4 1/2	9.5#	1250'	200 sacks class "B"

Move in rotary tools. Drill 12 1/4 hole to 50 feet. Set 50 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 1250 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
John Alexander

TITLE

Agent

DATE

3-29-77

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

RECEIVED

APR 5 1977

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

*See Instructions On Reverse Side

NEW MEXICO OIL CONSERVATION COMMISSION

WELL LOCATION AND ACERAGE DEDICATION PLAT

All distances must be from the outer boundaries of the Section

Operator KIRBY EXPLORATION COMPANY		Lease FREW FEDERAL		Well No. 2
Unit Letter N	Section 20	Township 26 NORTH	Range 12 WEST	County SAN JUAN
Actual Footage Location of Well: 1190 feet from the SOUTH line and 1600 feet from the WEST line				
Ground Level Elev. 6029	Producing Formation Pictured Cliff	Pool Nipp Pictured Cliff	Dedicated Acreage: 160	Acres

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty),
- 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 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

3-29-77

Date

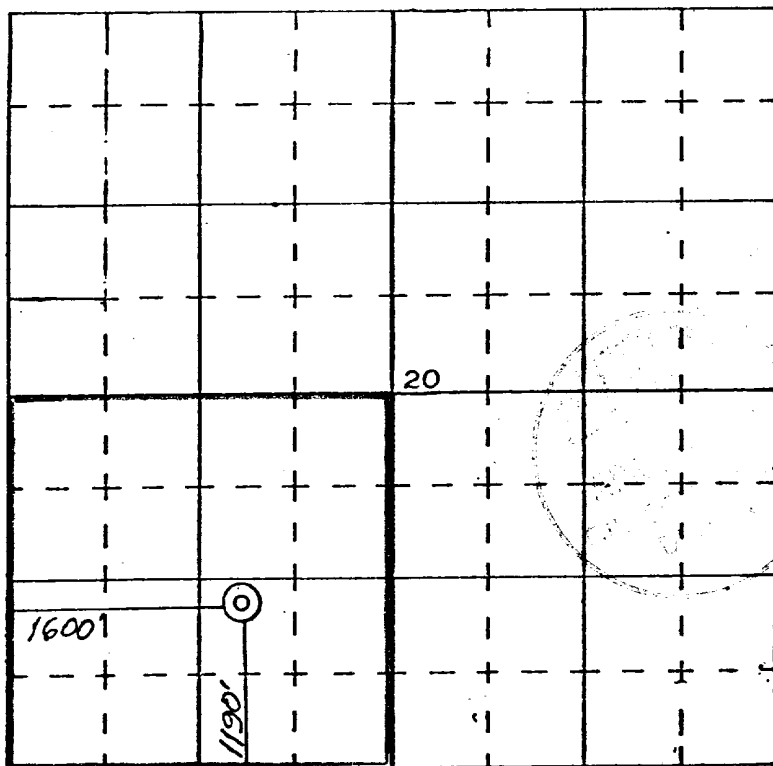
John Alexander

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.

11 March 1977

Date Surveyed

James P. Leese
Registered Professional Engineer
and/or Land Surveyor James P. Leese



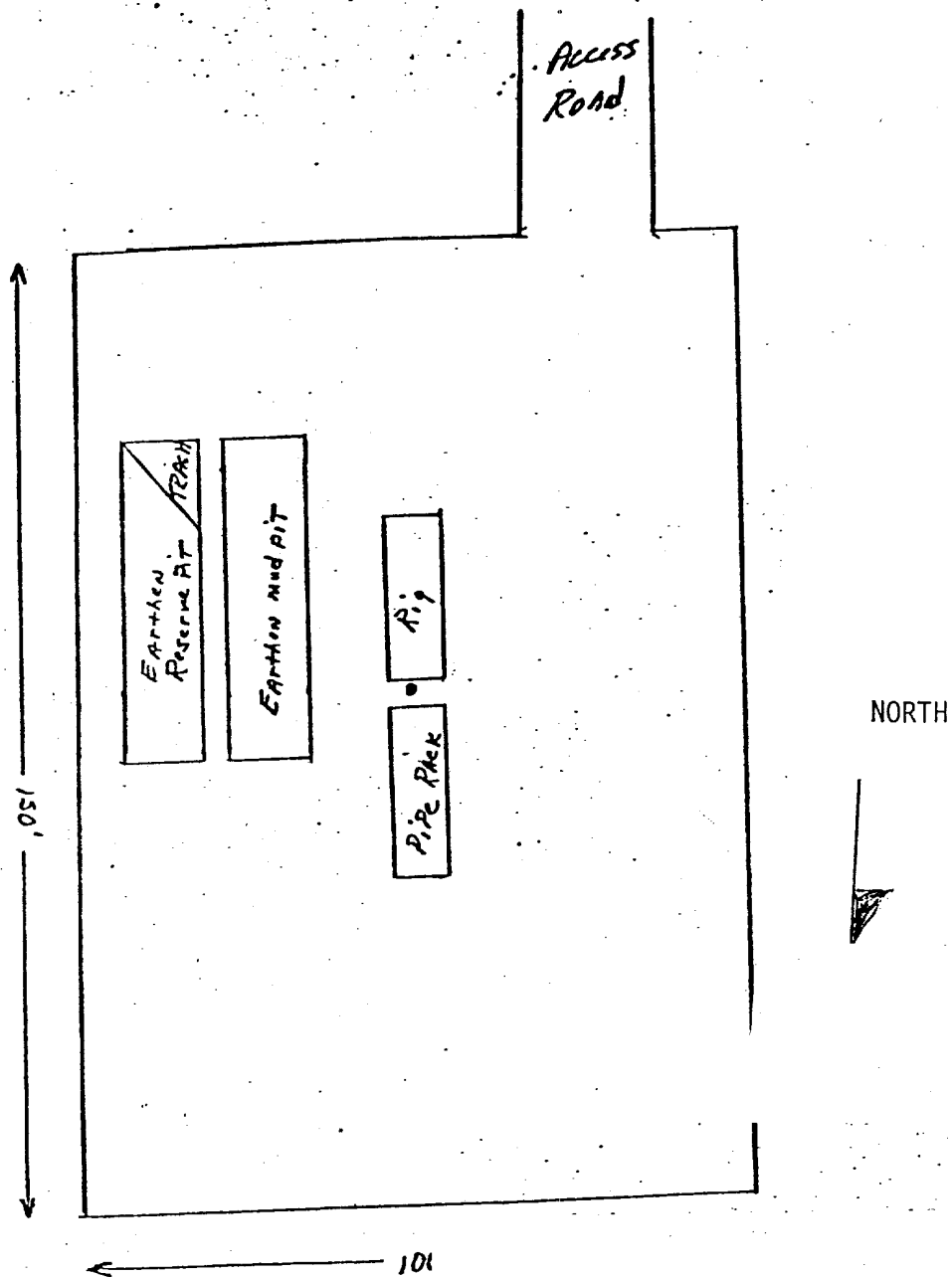
SCALE—4 INCHES EQUALS 1 MILE

SAN JUAN ENGINEERING COMPANY, FARMINGTON, N. M.

1463

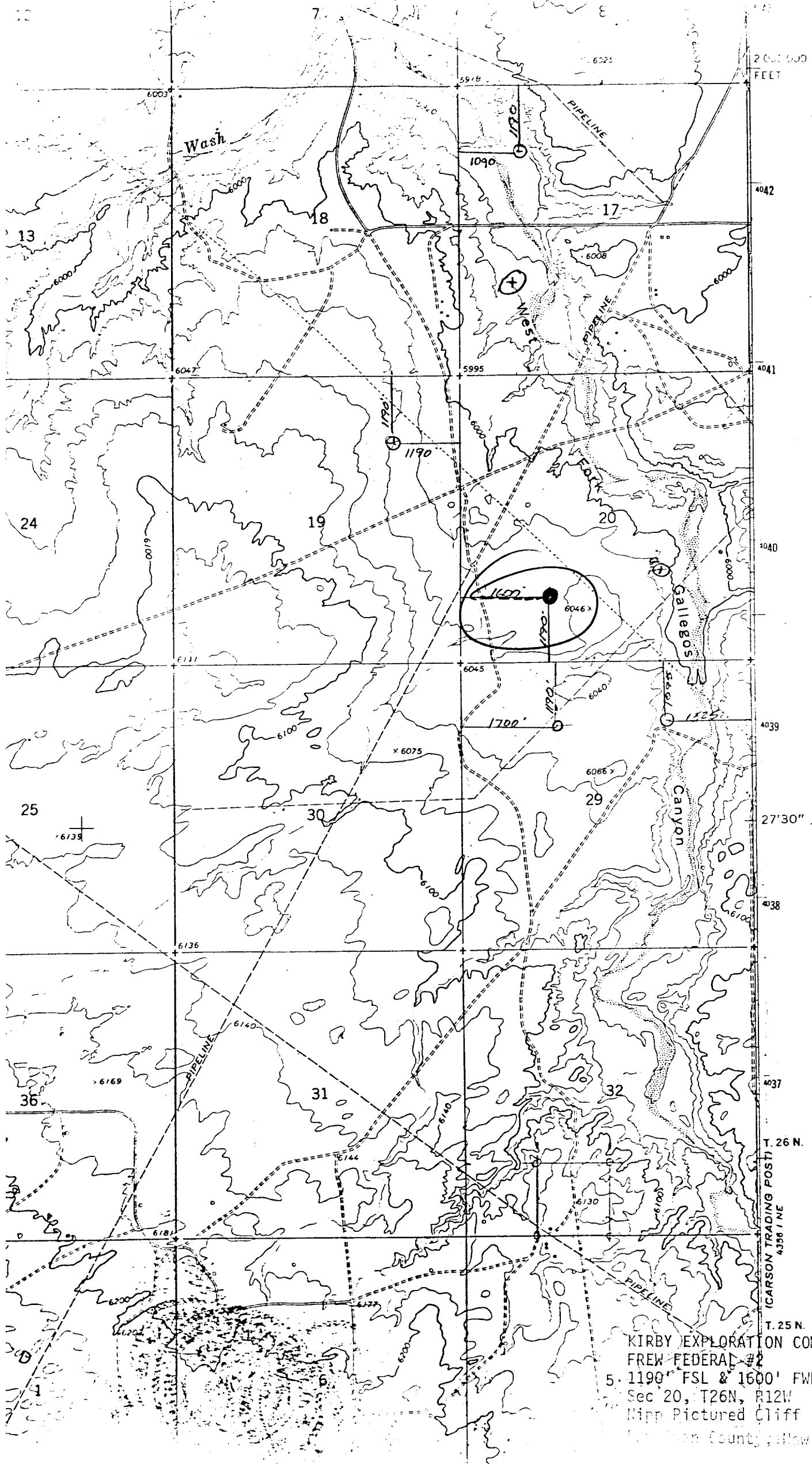
Certificate No.

Well Site Plat



Scale 1" = 30'

Kirby Exploration Company
Frew Federal #2
1190' FSL & 1600' FWL
Sec 20, T26N, R12W
Nipp Pictured Cliff
San Juan County, New Mexico



KIRBY EXPLORATION COMPANY
FREW FEDERAL #2
5. 1190' FSL & 1600' FWL
Sec 20, T26N, R12W
Nipp Pictured Cliff
Blaine County, Blaine

3E COMPANY, INC.

Engineering • Energy • Exploration

P. O. Box 190 —:— 505/327-4020

FARMINGTON, NEW MEXICO 87401

March 29, 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
Frew Federal #2
1190' FSL & 1600' FWL
Sec 20, T26N, R12W
Nipp Pictured Cliff
San Juan County, New Mexico

Gentlemen:

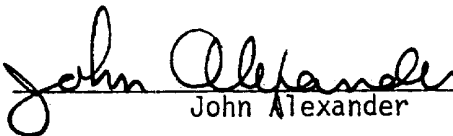
Attached is the "Application for Permit to Drill" (form #9-331C) for the subject well. Also enclosed are the following items: surveyor's plat, drill site plat and vicinity map. The archaeological report will follow under separate cover. Ms. Zarnowski gave oral approval of location. Mr. Bob Moore of Bureau 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 in all roads where necessary.
- 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. All facilities will be painted sandstone: Federal Standard 595-30318.
- Point 11. The location is on a level plain covered by native vegetation and no trees. A well traveled road is located 1300 feet to the west.
- 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.

3-29-77


John Alexander

Should further information be desired, please advise.

Yours very truly,


John Alexander

JA:st

Attachments