

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

Frontier Energy Corporation

3. ADDRESS OF OPERATOR

750 Bering Suite 502, Houston, Texas 77057

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

At surface

SW 1/4, SEC-20, T-32N, R-4W, 1525' FSL 800' FWL

At proposed prod. zone

Fruitland

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

65 miles N.E. of Blanco, N.M.

15. DISTANCE FROM PROPOSED\*

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

1525' FSL

800' FWL

16. NO. OF ACRES IN LEASE

2560

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.

One mile

19. PROPOSED DEPTH

4120'

20. ROTARY OR CABLE TOOLS

Rotary

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

7402' GR

DRILLING OPERATIONS AUTHORIZED ARE  
SUBJECT TO COMPLIANCE WITH ATTACHED

22. APPROX. DATE WORK WILL START\*

July 1, 1984

23. "GENERAL REQUIREMENTS" PROPOSED CASING AND CEMENTING PROGRAM This action is subject to administrative appeal pursuant to 30 CFR 290.

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT          |
|--------------|----------------|-----------------|---------------|-----------------------------|
| 12 1/4"      | 9-5/8"         | 36#             | 0-175'        | 376.20 Cu. Ft. - To Surface |
| 8-3/4"       | 5 1/2"         | 15.5#           | 0-4000'       | 125.00 Cu. Ft.              |

Operator will drill to a depth sufficient to log (4100') and test the Pictured Cliffs and Fruitland Formations for gas, if productive, will set casing and complete. If non-productive, well will be abandoned in a manner consistent with Federal Regulations. No zones above the Fruitland will be tested.

Exhibits attached:

- I. Ten Point Compliance Program
- II. Multipoint Requirements for APD
- III. Exhibits

1. BOP Schematic (A & B)
2. Location & Elevation Plat

3. Access Road Maps (A & B)
4. Radius Map
5. Production Facilities
6. Cut & Fill Cross Section
7. Drilling Rig Layout (A & B)
8. Letter of Agent
9. Cultural Resource 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 [Signature] TITLE Vice President-Oper.

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_

APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_

TITLE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

NMOCC

APPROVED

DATE June 7th, 1984

AS AMENDED

JUL 3 1 1984

(SGD.) MAT MILLENBACH

DATE

AREA MANAGER  
FARMINGTON RESOURCE AREA

\*See Instructions On Reverse Side

## INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

ITEM 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plat, separate or on this reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone.

ITEM 22: Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

## NOTICE

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR Part 3160.

PRINCIPAL PURPOSE: The information is to be used to process and evaluate your application for permit to drill, deepen, or plug back an oil or gas well.

ROUTINE USES: (1) The analysis of the applicant's proposal to discover and extract the Federal or Indian resources encountered. (2) The review of procedures and equipment and the projected impact on the land involved. (3) The evaluation of the effects of proposed operation on surface and subsurface water and other environmental impacts. (4)(5) Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions, as well as routine regulatory responsibility.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if the lessee elects to initiate drilling operations on an oil and gas lease.

The Paperwork Reduction Act of 1980 (44 U.S.C. 3501 et seq) requires us to inform you that:

This information is being collected to allow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases.

This information will be used to analyze and approve applications.

Response to this request is mandatory only if the lessee elects to initiate drilling operations on an oil and gas lease.

## OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

EXHIBIT 2 -

Form C-107  
Revised 10-1-78

STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

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

|                                                                                                   |                                  |                 |                       |                                 |                                |
|---------------------------------------------------------------------------------------------------|----------------------------------|-----------------|-----------------------|---------------------------------|--------------------------------|
| Operator<br>Frontier Energy Corporation                                                           |                                  |                 | Lease<br>Arboles 20-A |                                 | Well No.<br><del>20-A</del> #1 |
| Unit Letter<br>L                                                                                  | Section<br>20                    | Township<br>32N | Range<br>4W           | County<br>Rio Arriba            |                                |
| Actual Footage Location of Well:<br>1525 feet from the South line and 800 feet from the West line |                                  |                 |                       |                                 |                                |
| Ground Level Elev:<br>7402                                                                        | Producing Formation<br>Fruitland |                 | Pool<br>Wildcat       | Dedicated Acreage:<br>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.

|               |  |                                                                              |  |
|---------------|--|------------------------------------------------------------------------------|--|
| Sec           |  | RECEIVED<br>SEP 04 1984<br>BUREAU OF LAND MANAGEMENT<br>SANTA FE, NEW MEXICO |  |
|               |  | 20                                                                           |  |
| 800'<br>1525' |  | RECEIVED<br>SEP 07 1984<br>OIL CON. DIV.<br>DIST. 3                          |  |

Scale: 1"=1000'

## CERTIFICATION

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

|                                        |
|----------------------------------------|
| Name<br>David W. Hatchett              |
| Position<br>VP - Operations            |
| Company<br>Frontier Energy Corporation |
| Date<br>August 20, 1984                |

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.

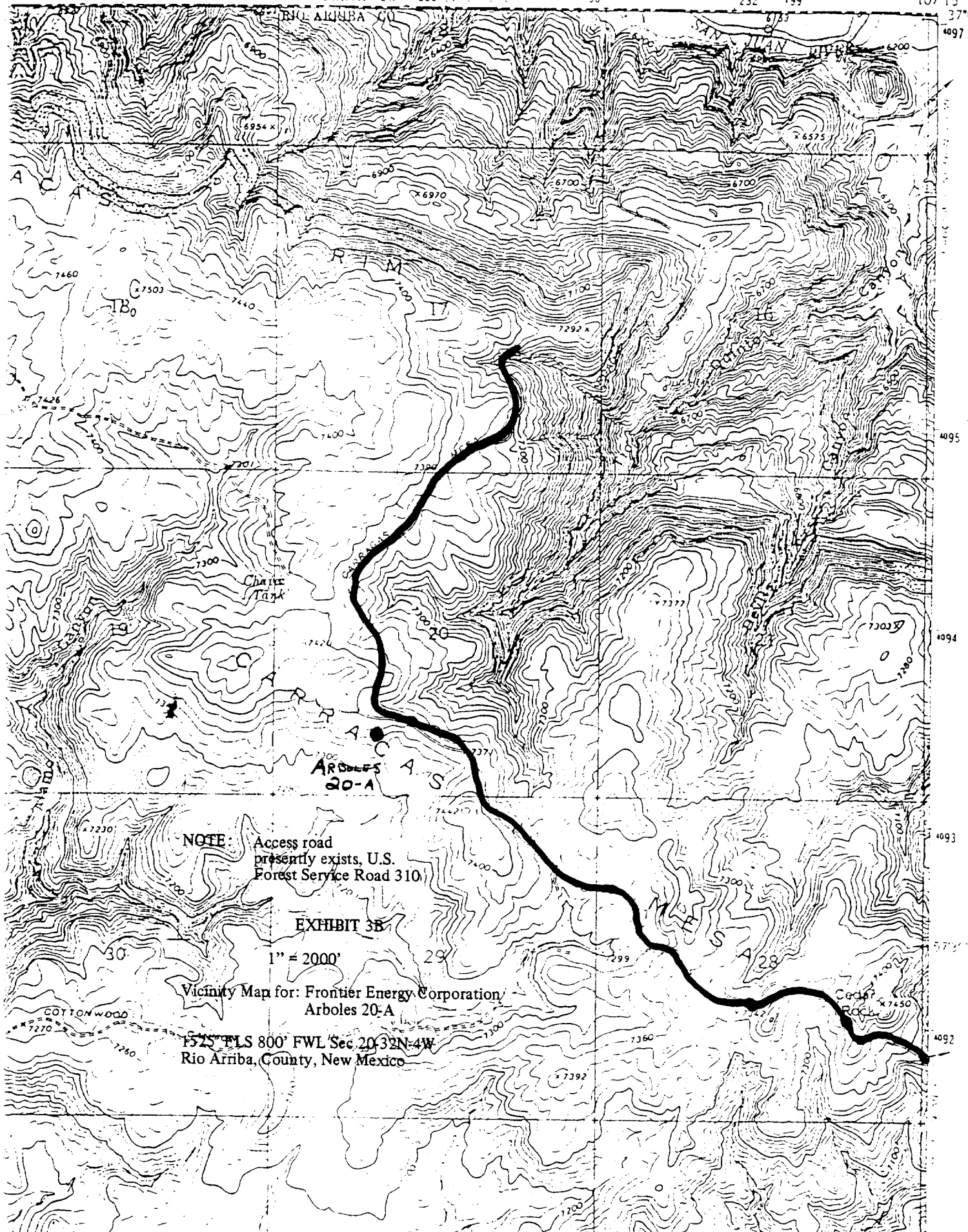
|                                                                        |
|------------------------------------------------------------------------|
| Date Surveyed<br>SEP 14 1984                                           |
| Registered Professional Engineer and Land Surveyor<br>Fred E. Kerr Jr. |
| Certificate No.<br>3950                                                |

# BANCOS MESA QUADRANGLE

NEW MEXICO

7.5 MINUTE SERIES (TOPOGRAPHIC)

234 17°30' ARCHULETA CO 233 798 232 799 107°15' 37°00'



NOTE: Access road  
presently exists, U.S.  
Forest Service Road 310

EXHIBIT 3B

1" = 2000'

Vicinity Map for: Frontier Energy Corporation  
Arboles 20-A

F525 PLS 800' FWL Sec. 20, 32N-4W  
Rio Arriba, County, New Mexico