

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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

ARCO Oil and Gas Company

Division of Atlantic Richfield Company

3. ADDRESS OF OPERATOR

Suite 501

1860 Lincoln Street, Denver, Colorado 80295

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

At surface

790' FSL & 1850' FEL Section 20 (SW SE) (Unit O)

At proposed prod. zone

Approximately Same

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

See attached NTL-6

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST

790' f/lse. line.

PROPERTY OR LEASE LINE, FT.

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

16. NO. OF ACRES IN LEASE

400

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.

approx. 3500'

f/well in NE/4

19. PROPOSED DEPTH

7575'

20. ROTARY OR CABLE TOOLS

Rotary

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

Sec. 20

6941 GL (Ungraded)

22. APPROX. DATE WORK WILL START*

Dirtwork when app'd. appl.

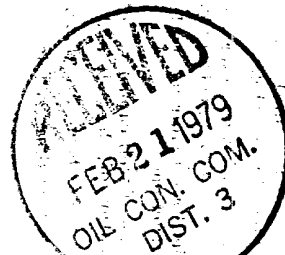
received. approx. 3-17-79

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"	24#	300'	300 sx.
7-7/8"	5-1/2"	15.5 & 17#	7575' (TD)	500 sx.

Propose to drill well to a depth sufficient to test the Dakota Formation, setting surface casing as above. If productive, set production casing, perforate; test and treat if necessary.

Pursuant to NTL-6 attached are: Certified Location Plat
Drilling Plan with attachment
Surface Use and Operations Plan with attachments.



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

TITLE Operations Manager

DATE February 16, 1979

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

ak Frank

*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.

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-101
Effective 1-1-65

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

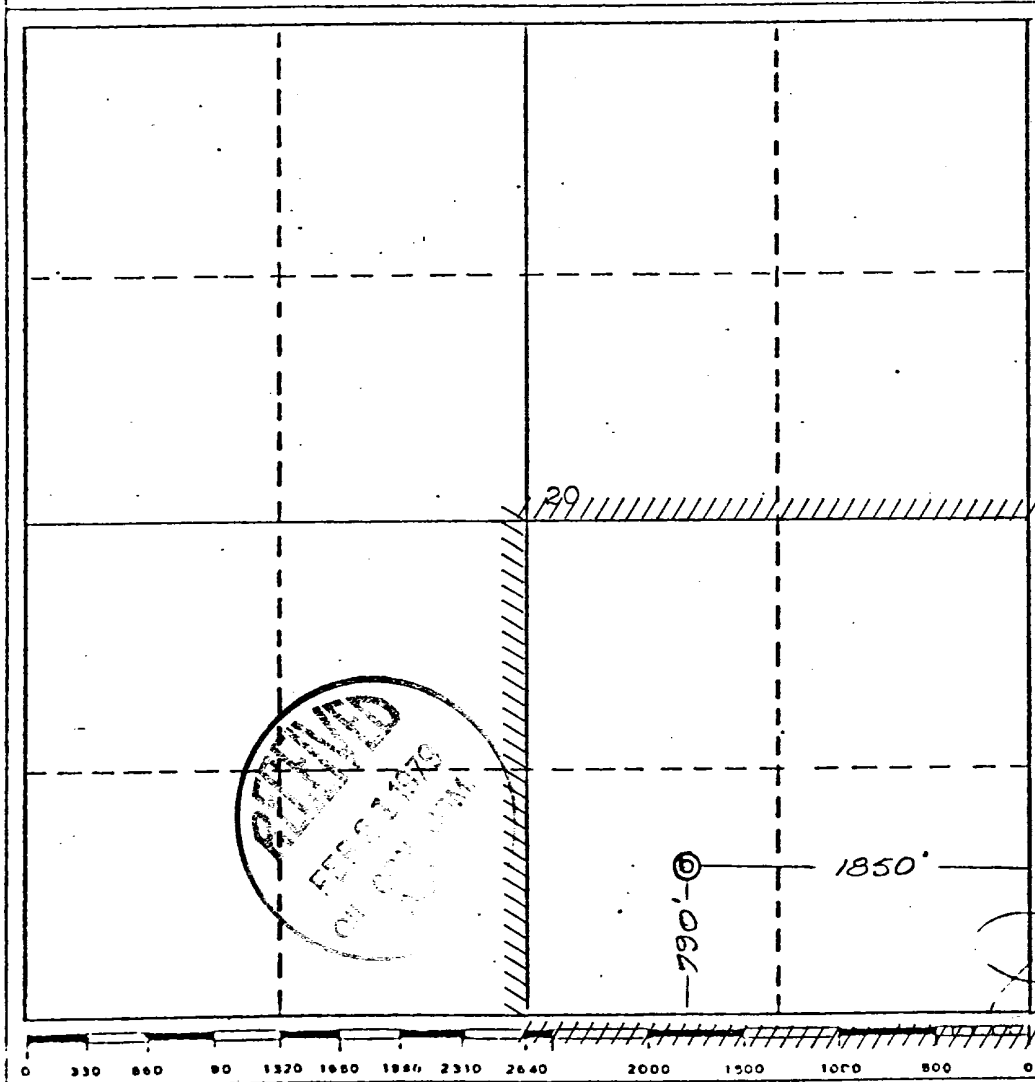
Operator <u>Arco Oil and Gas Co. Div. of</u> THE ATLANTIC RICHFIELD COMPANY		Lease <u>CHACON HILL</u>		Well No. <u>1</u>
Unit Letter <u>0</u>	Section <u>20</u>	Township <u>24 NORTH</u>	Range <u>3 WEST</u>	County <u>RIO ARriba</u>
Actual Footage Location of Well: <u>790</u> feet from the <u>SOUTH</u> line and <u>1850</u> feet from the <u>EAST</u> line				
Ground Level Elev. <u>6941</u>	Producing Formation <u>Dakota</u>	Pool <u>Chacon</u> West Lindrith Gallup-Dakota	Dedicated Acreage: <u>160</u> 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). N/A
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? N/A

☐ 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.

W. A. Walther, Jr.
Name

W. A. Walther, Jr.
Position

Operations Manager

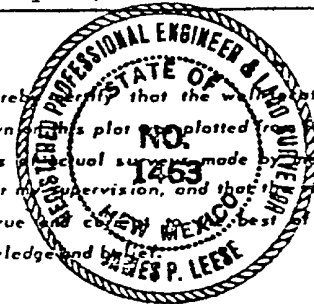
Company ARCO Oil and Gas

Company, Division of

Date ATLANTIC RICHFIELD CO.

February 16, 1979

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



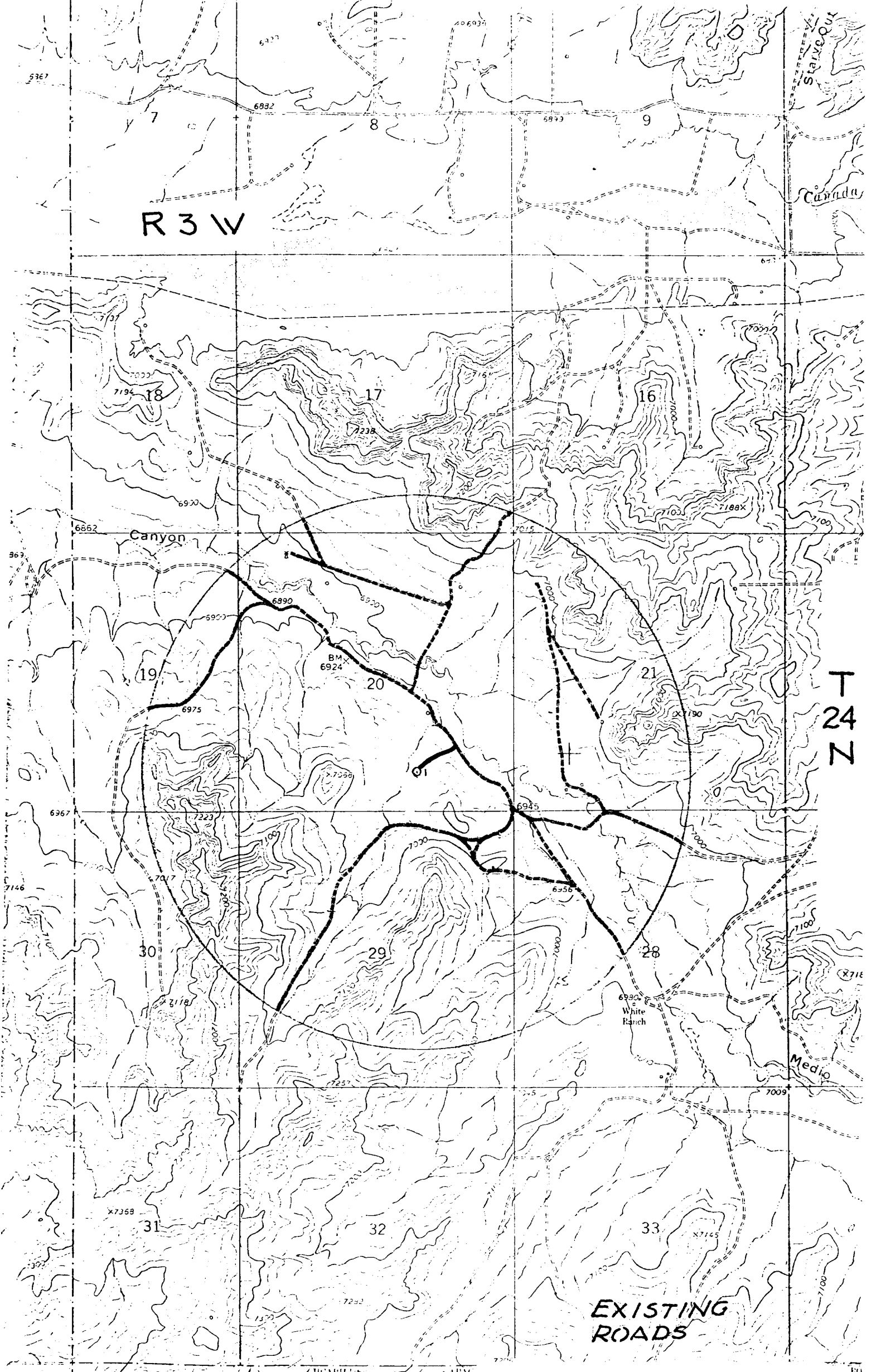
5 February 1979
Date Surveyed

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

1463
Certificate No.

R 3 W

T 24 N



EXISTING
ROADS

CHACON HILL No. 1