

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

1150' FNL & 900' FEL Section 8 (NE NE) (Unit A)

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*

900' f/lse. line

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

18. DISTANCE FROM PROPOSED LOCATION*

Approx. 200'

TO NEAREST WELL, DRILLING, COMPLETED
OR APPLIED FOR, ON THIS LEASE, FT.

f/well in NE/4

21. ELEVATIONS (Show whether DF, RT, GR, etc.) Sec. 8

6699' GL (Ungraded)

16. NO. OF ACRES IN LEASE

2611.20

19. PROPOSED DEPTH

7450'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

160

20. ROTARY OR CABLE TOOLS

Rotary

22. APPROX. DATE WORK WILL START*

When approved application
rec'd/ approx. May 26, 1979

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" OD	24#	300'	300 sx. (cement to surface)
7-7/8"	5-1/2" OD	15.5 & 17#	T. D.	500 sx.

Propose to drill well to a depth sufficient to test the Dakota Formation, setting surface casing and if productive setting production casing. If both the Dakota and Gallup Formations are productive, will perforate, test and treat if necessary and commingle production from the Dakota and Gallup Formations.

Pursuant to the provisions of 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 any 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 April 24, 1979

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

RECEIVED
APR 26 1979
U. S. GEOLOGICAL SURVEY
DENVER, COLO.

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 plats, 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-128
Effective 1-1-65

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

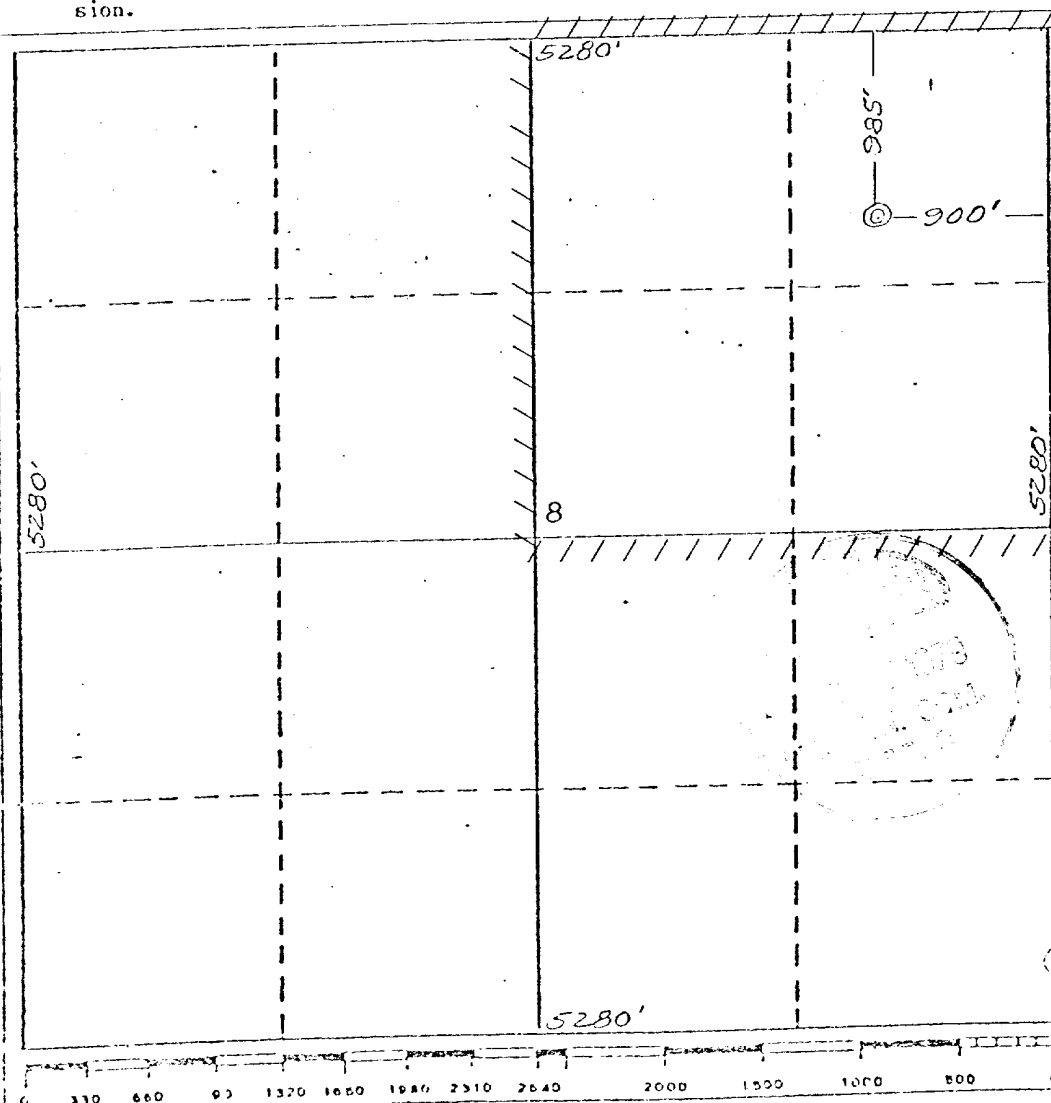
Operator ARCO OIL and GAS COMPANY *			Lease JICARILLA CONTRACT #111		Well No. 104
Unit Letter A	Section 8	Township 24 NORTH	Range 4 WEST	County RIO ARriba	
Actual Footage Location of Well:					
985	feet from the	NORTH	line and	900	feet from the EAST line
Ground Level Elev. 6701	Producing Formation Gallup-Dakota		Pool West Lindrith Gallup Dakota		Dedicated Acreage: 160 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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.

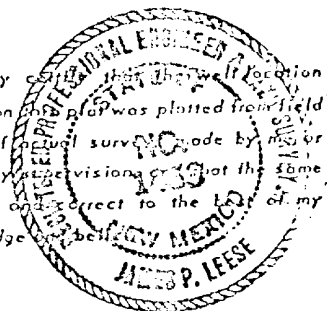
Position
Operations Manager

Company ARCO Oil and Gas Co.

Division of Atlantic Richfield

Date May 7, 1979 Company

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.



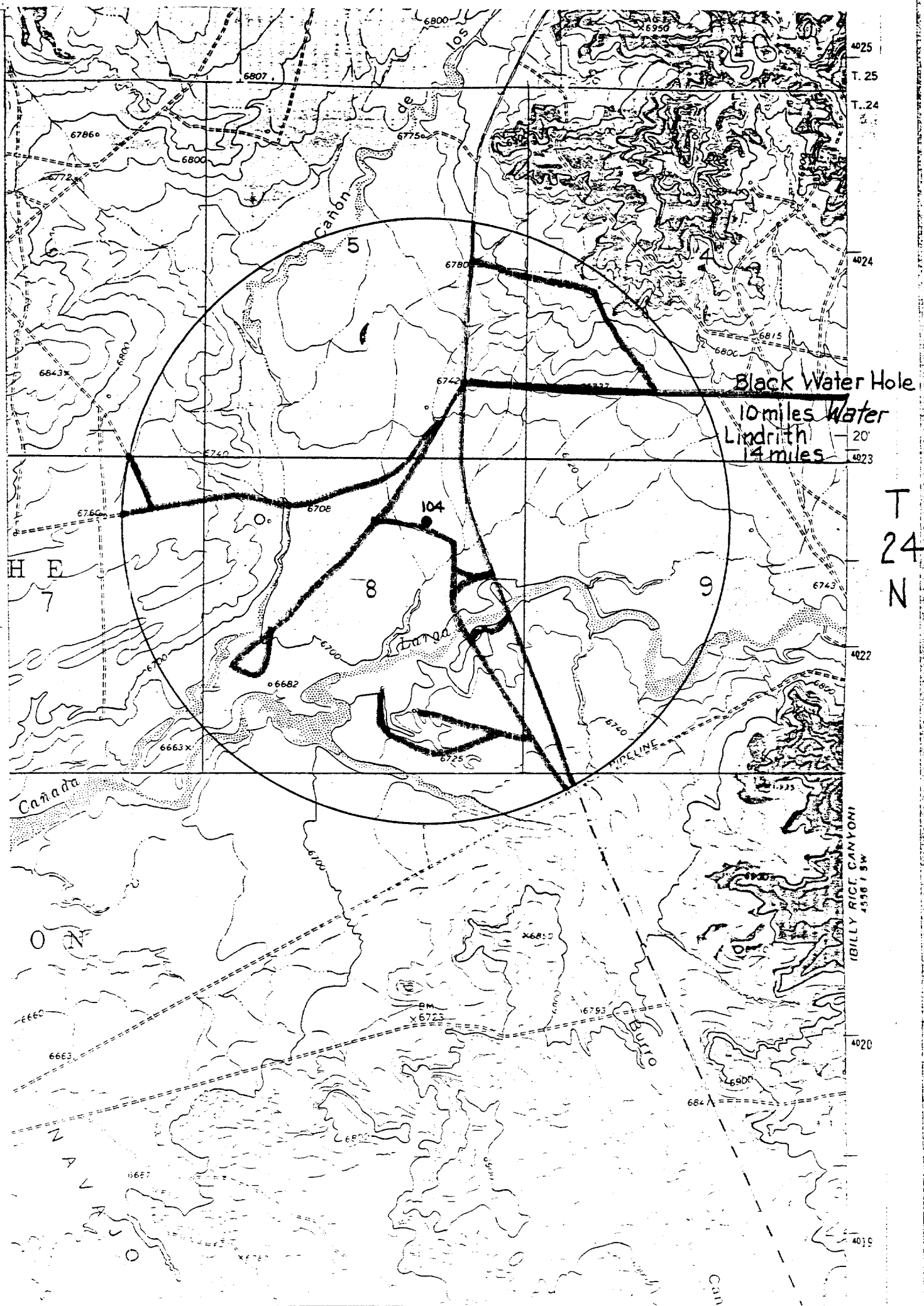
Date Surveyed
20 April 1979

Registered Professional Engineer
and/or Land Surveyor

James P. Leese
James P. Leese

Certificate No.

1463



R 4 W

— L E G E N D —

- PROPOSED LOCATION
- ROAD TO BE CONSTRUCTED
- - - - - EXISTING ACCESS ROADS

Atlantic Richfield Company
BOOBY MOUNTAIN DISTRICT
DENVER, COLORADO

Jicarilla #104
Rio Arriba County, N.M.

SKA
1:24,000

4-24-79