

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

30-039-22006

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 1650' FNL & 1650' FWL Section 6 (SE NW) (Unit F)
At proposed prod. zone
Approximately Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
See NTL-6

15. DISTANCE FROM PROPOSED* 1650' f/lse. line
LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)

16. NO. OF ACRES IN LEASE
2611.20

17. NO. OF ACRES ASSIGNED TO THIS WELL
160 152.12

18. DISTANCE FROM PROPOSED LOCATION approx. 800' f/
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT. well in NW/4 Sec. 6

19. PROPOSED DEPTH
7550'

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
6863' GL (Ungraded)

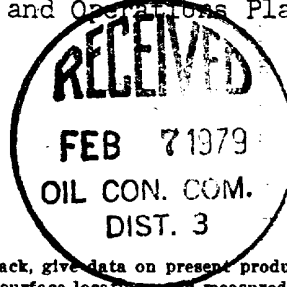
22. APPROX. DATE WORK WILL START*
When appl'd. appl. rec'd.
Approx. 3-6-79

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. (cmt. to surf.)
7-7/8"	5-1/2" OD	15.5 & 17#	T. D.	550 sx.

Propose to drill well to a depth sufficient to test the Dakota Formation, setting surface casing and if productive set production casing. If both formations are productive, perforate, test and treat if necessary and dual complete in the Gallup and Dakota Formations. Production will be commingled.

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 [Signature] TITLE Operations Manager DATE February 5, 1979

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

ok [Signature]
write now

*See Instructions On Reverse Side

FEB 23 1979

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.

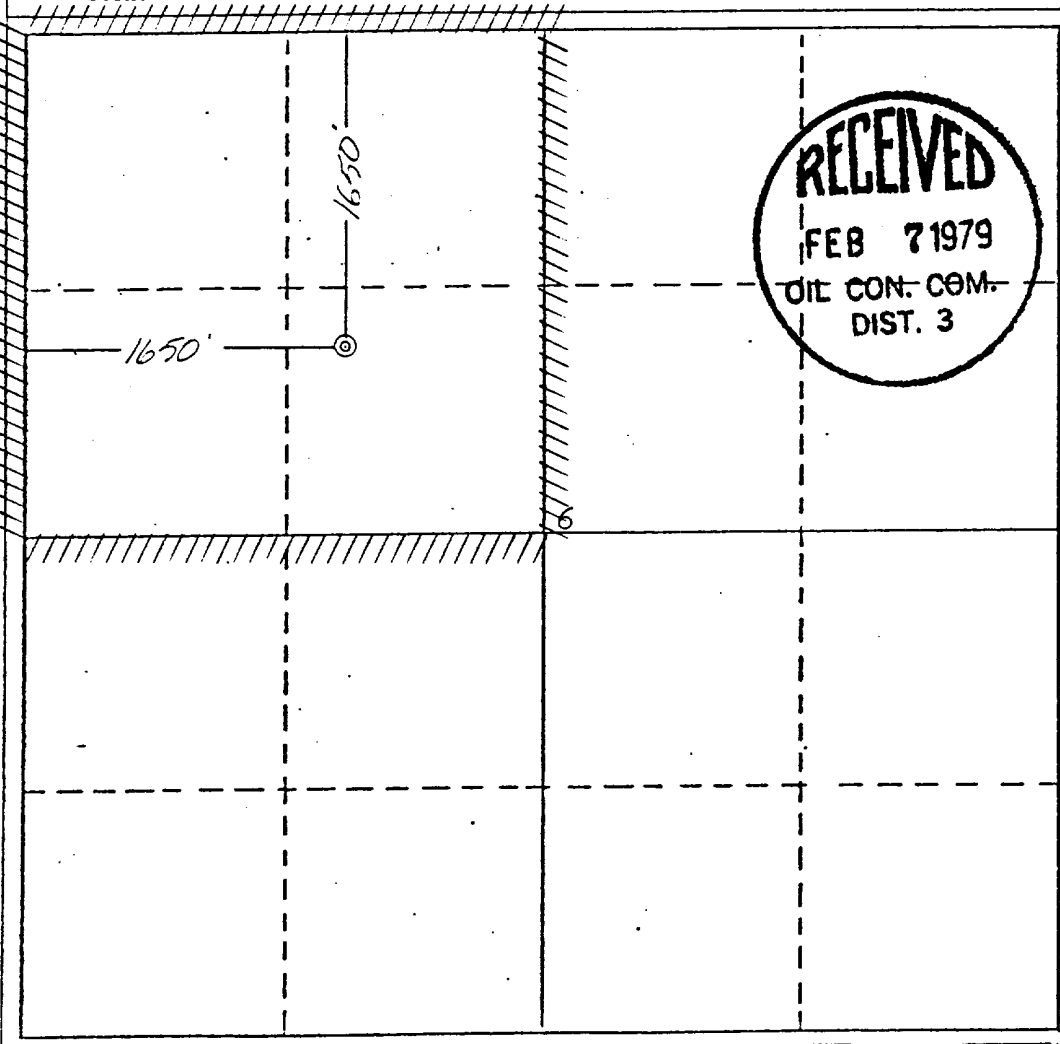
Operator ATLANTIC RICHFIELD COMPANY		Lease JICARILLA		Well No. 102	
Unit Letter F	Section 6	Township 24 NORTH	Range 4 WEST	County RIO ARRIBA	
Actual Footage Location of Well: 1650 feet from the NORTH line and 1650 feet from the WEST line					
Ground Level Elev. 6863	Producing Formation Gallup and Dakota	Pool West Lindrith Gallup Dakota		Dedicated Acreage: 260 152.12 acs	

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 **Atlantic Richfield Company**
Date
February 5, 1979

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

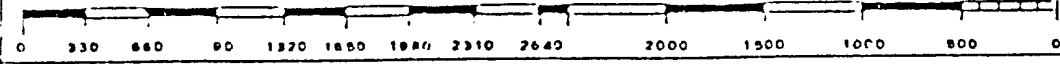


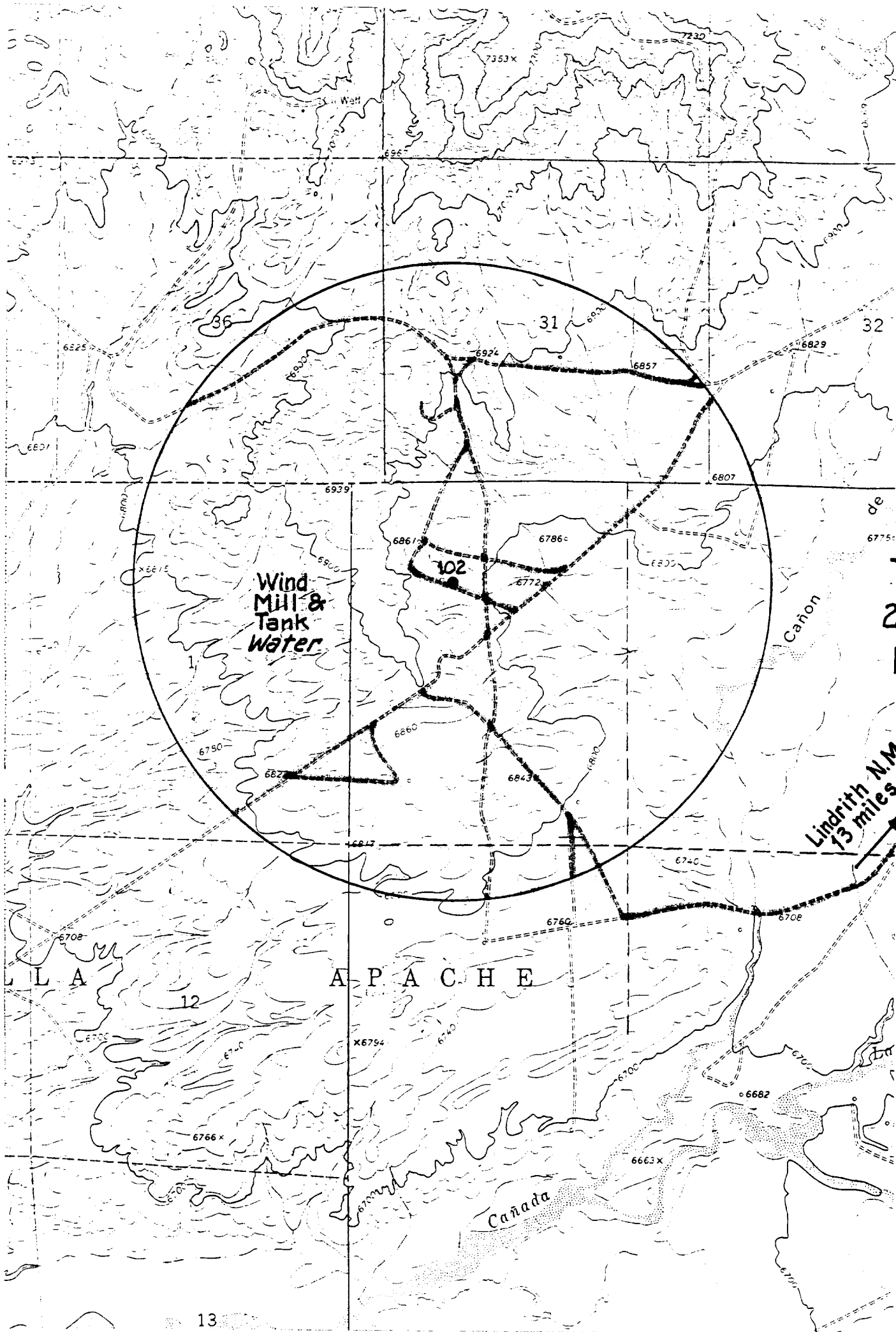
31 January 1979

Date Surveyed
Michael Daly
Registered Professional Engineer
and/or Land Surveyor

Michael Daly

Certificate No.
5992





R 4 W

— LEGEND —

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

Atlantic Richfield Company ROCKY MOUNTAIN DISTRICT DENVER, COLORADO	
<h2 style="margin: 0;">Jicarilla # 102</h2> <h3 style="margin: 0;">Rio Arriba County, N.M.</h3>	
DRAFTED BY SKA	CHECKED BY _____
DATE 2-2-79	
SCALE 1:24000	REVISED _____