

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

1840' FSL & 800' FEL Section 5 (NE SE) (Unit I)

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

1840' f/lse. line

16. NO. OF ACRES IN LEASE

N/A

17. NO. OF ACRES ASSIGNED
TO THIS WELL

160 (SE/4

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

N/A

19. PROPOSED DEPTH

7750'

20. ROTARY OR CABLE TOOLS

Rotary

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

7345' GL

22. APPROX. DATE WORK WILL START*

Dirtwork when app'd.

appl. rec'd.

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.
7-7/8"	5-1/2" OD	15.5 & 17#	7750' TD	700 sx.

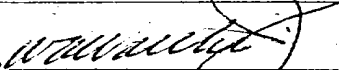
Propose to drill well to a depth sufficient to test approximately 400' of the Dakota Formation setting surface casing as above, logging and if productive set 5-1/2" casing and cement with sufficient cement to protect all zones, perforate, treat as necessary and complete in the Dakota Formation.

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 location and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED



TITLE Operations Manager

DATE February 27, 1979

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:



*See Instructions On Reverse Side

U. S. GEOLOGICAL SURVEY
DENVER, COLO.

30-039-22013

5. LEASE DESIGNATION AND SERIAL NO.

Joint Venture

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Jicarilla Apache

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Jicarilla Apache JV 5

9. WELL NO.

10

10. FIELD AND POOL, OR WILDCAT

Chacon Dakota

11. SEC., T., R., M., OR BLM.
AND SURVEY OR AREA

5-23N-3W

12. COUNTY OR PARISH

13. STATE

Rio Arriba

New Mexico

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.

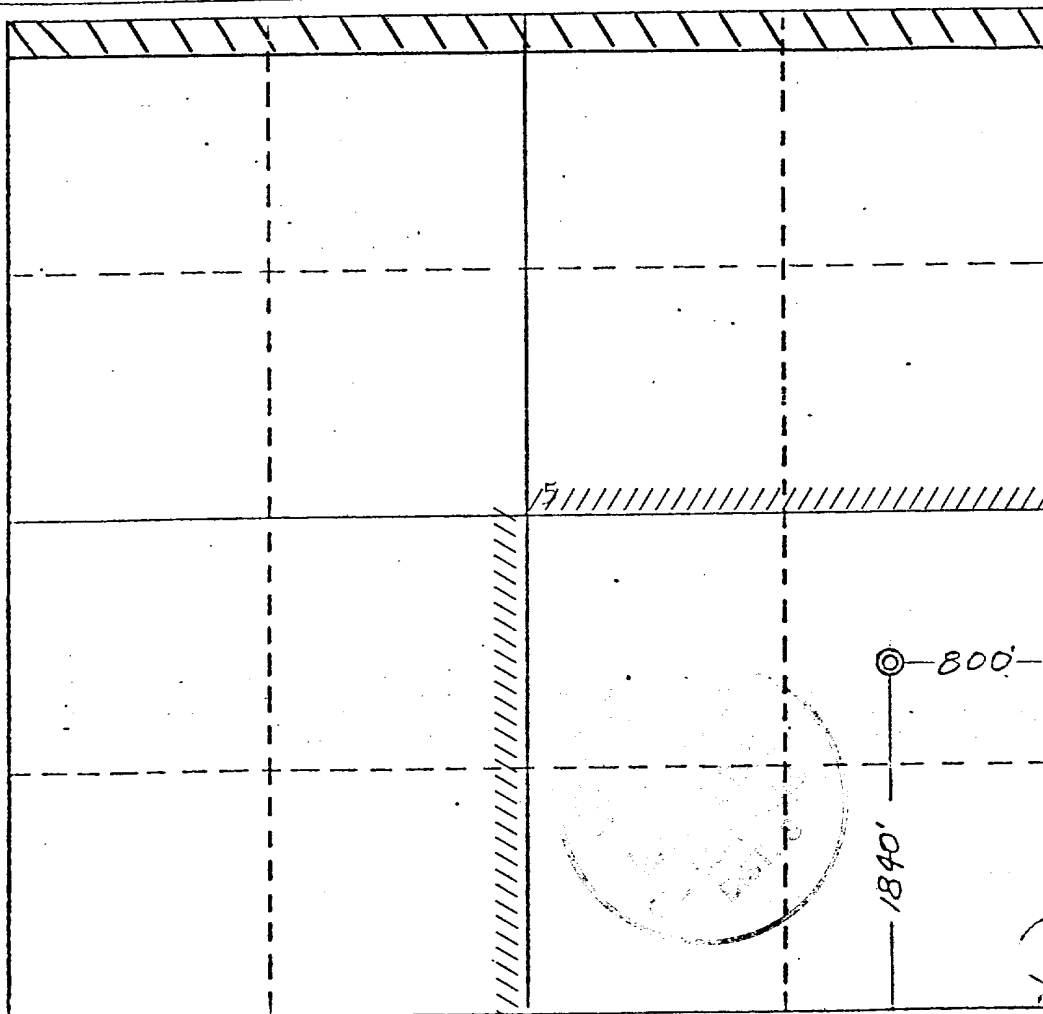
Operator <i>Arco Oil and Gas Co.</i> THE ATLANTIC RICHFIELD COMPANY		Lease JICARILLA APACHE J <i>U5</i>		Well No. <i>3-2</i>
Unit Letter <i>I</i>	Section <i>5</i>	Township <i>23 NORTH</i>	Range <i>3 WEST</i>	County <i>RIO ARRIBA</i>
Actual Footage Location of Well: <i>1840</i> feet from the <i>SOUTH</i> line and <i>800</i> feet from the <i>EAST</i> line				
Ground Level Elev. <i>7345</i>	Producing Formation <i>Dakota</i>	Pool <i>Chacon Dakota</i>	Dedicated Acreage: <i>160</i> Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
N/A
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.

Name

W. A. Walther, Jr.

Position

Operations Manager

Company *ARCO Oil and Gas Co.*

Division of Atlantic Richfield

Date *February 27, 1979*

Company

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

5 February 1979

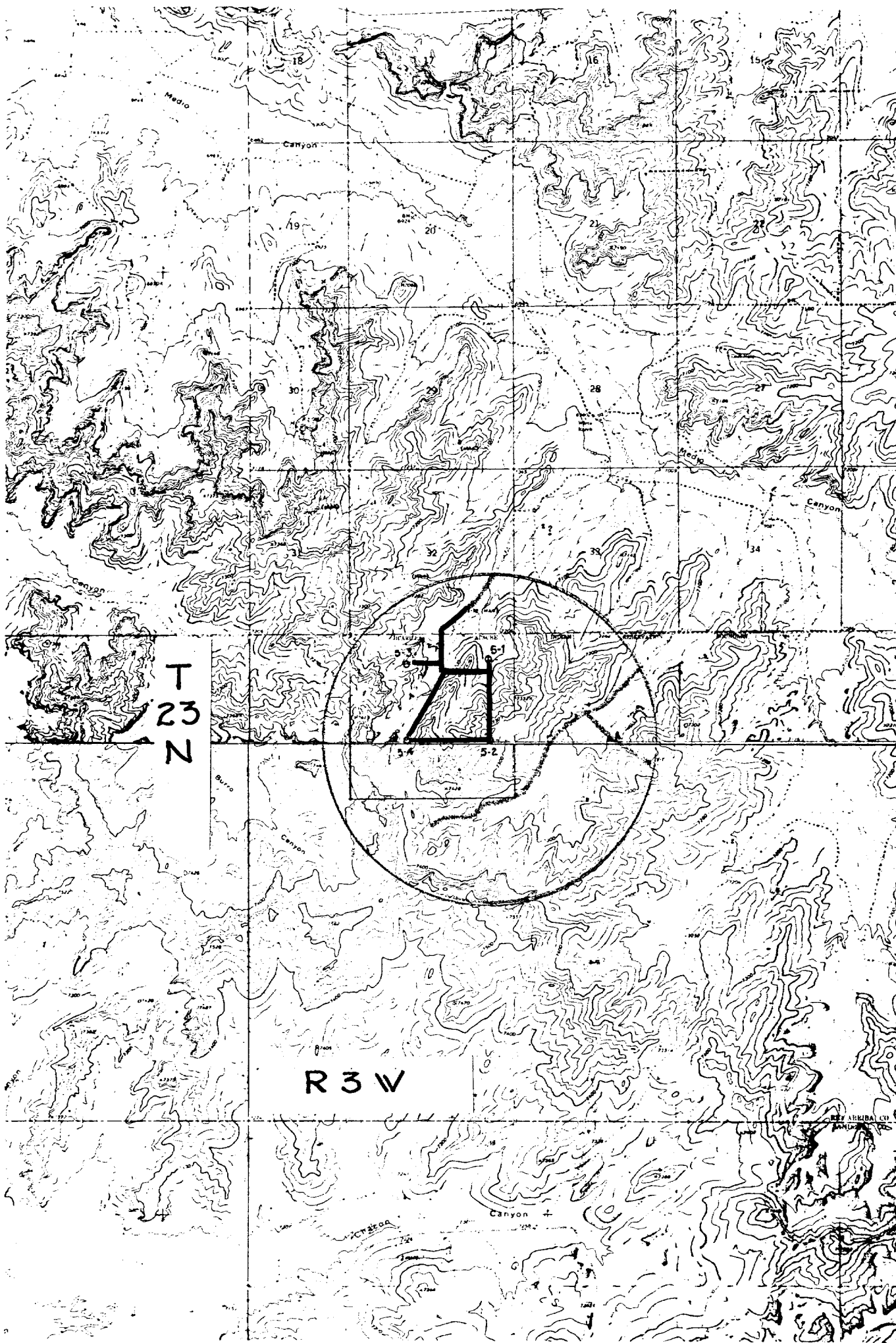
Registered Professional Engineer and/or Land Surveyor

James P. Leese

Certificate No.

1463

0 330 660 990 1320 1650 1980 2310 2640 2970 3300 3630 3960 4290 4620 4950 5280 5610 5940 6270 6600 6930 7260 7590 7920 8250 8580 8910 9240 9570 9900



EXISTING
ROADS

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

Atlantic Richfield Company ROCKY MOUNTAIN DISTRICT DENVER, COLORADO	
JICARILLA APACHE JV WELL No. 5-2	
DRAFTED BY _____	CHECKED BY _____ DATE _____
SCALE _____	REVISED _____