

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
ARCO Oil and Gas Company, A Division of Atlantic Richfield Co.

3. ADDRESS OF OPERATOR
P.O. Box 1610, Midland, Texas 79702

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)
At surface 1955' FSL and 510' FEL

At proposed prod. zone
Approximately same as above

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE
+9 miles west of Lindrith, New Mexico

15. DISTANCE FROM PROPOSED*
LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drig. unit line, if any)
3150'

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.
661'

16. NO. OF ACRES IN LEASE
1309.76

19. PROPOSED DEPTH
7565'

17. NO. OF ACRES ASSIGNED
TO THIS WELL
NW 1/4 - 747
80 19142

20. ROTARY OR CABLE TOOLS
Rotary w/ Tonkin #1

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
6940' (upgraded GL)

DRILLING OPERATIONS AUTHORIZED ARE
SUBJECT TO COMPLIANCE WITH ATTACHED
"GENERAL REQUIREMENTS"

22. APPROX. DATE WORK WILL START*
Mid October, 1986

23. PROPOSED CASING AND CEMENTING PROGRAM

This action is subject to technical and
procedural review pursuant to 43 CFR 3165.3
and appeal pursuant to 43 CFR 3165.4.

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	
12-1/4"	8-5/8"	24#	350'	290 sx cmt or to Surf
7-7/8"	5-1/2"	17#	7565'	995 sx cmt or to Surf

See attached Summary

Pursuant to Onshore Oil and Gas Order No. 1
Certified Location Plat (Exhibit #1)
Drilling Plan w/attachments
Surface Use & Operations Plan w/attachments

This well is proposed to be drilled 7565' and to be completed in the Dakota "A"
Formation as described in the attached plans.

Please contact Sandy Stash-Zdinak, Drilling Engineer (915) 688-5675 if additional
information is required.
915-688-5565

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] District Drilling Engineer DATE 9-23-86

APPROVED AS AMENDED

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

OIL CON. DIV. 1
DIST. 3

DATE OCT 20 1986
/s/ J. Stan McKee

FOR AREA MANAGER

Hold C-104 for
Cement Bond Analyzing logs
*See Instructions On Reverse Side

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

EXHIBIT "A"

Certified Location
Plat

Form C-102

Revised 10-1-72

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

Operator ARCO OIL & GAS		Lease TONKIN FEDERAL 19		Well No. 10-5
Unit Letter I	Section 18	Township 24 North	Range 3 West	County Rio Arriba
Actual Footage Location of Well: (cardinal) 1955 feet from the South line and 510 feet from the East line				
Ground Level Elev. 6940	Producing Formation Gilbert/Dakota	Pool W. Lindrith	Dedicated Acreage: 191.42 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
JA W Tonkin #1
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 _____

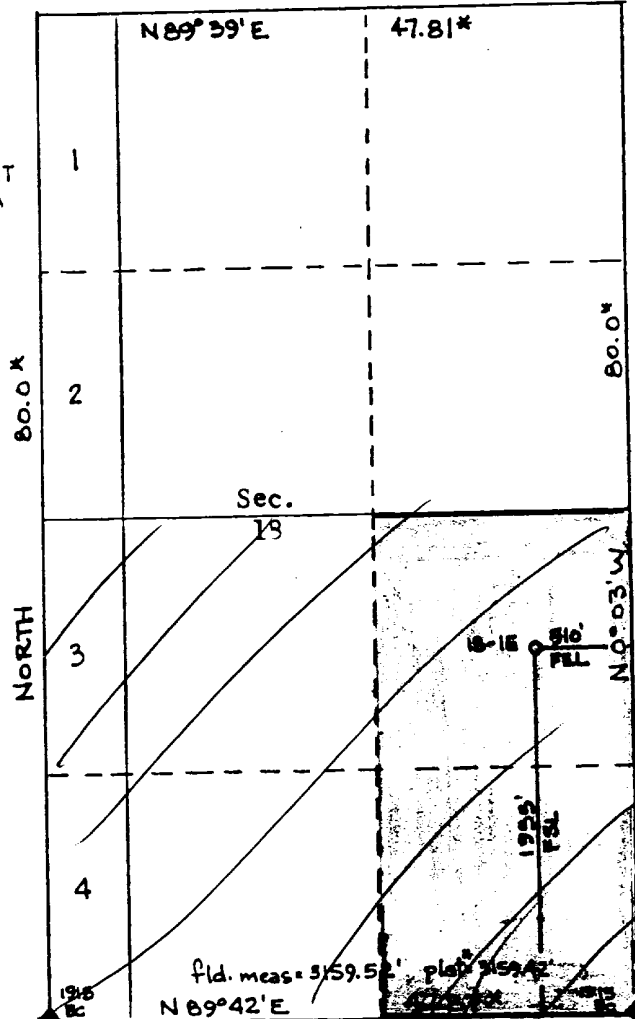
If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

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 Division.

* Record GLO plat 1917

RECEIVED

OCT 17 1986

BUREAU OF LAND MANAGEMENT
FARMINGTON RESOURCE AREA

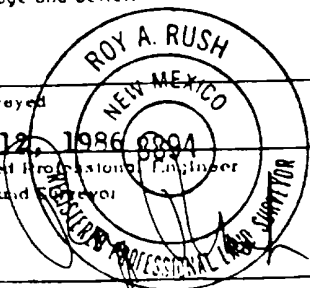
CERTIFICATION

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

Name *Pandra Hash-Zdrak*
Position **DRILLING ENGINEER**
Company **ARCO OIL + GAS**
Date **9/19/86**

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
Sept. 12, 1986
Registered Professional Engineer
and/or Land Surveyor



RECEIVED
OCT 22 1986
OIL CON. DIV.
DIST. 3

Exhibit "C"
Access road to location

Vicinity map for:
ARCO OIL & GAS
Tonkin Federal 18-1E
1955' FSL & 510' FEL
Sec. 18, T24N, R3W
Rio Arriba Cnty., N.M.

Loc. Grnd. Elev. 6940

Starve Out

Gavilan

Canyon

Exhibit "C"
Access road to location

Vicinity map for:
ARCO OIL & GAS
Tonkin Federal 18-1E
1955' FSL & 510' FEL
Sec. 18, T24N, R3W
Rio Arriba Cnty., N.M.

Loc. Grnd. Elev. 6940

Starve Out

Gavilan

Canyon

19 20 21 22 23

10 11

12 13 14 15

16 17 18 19 20 21 22 23

24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

Exhibit "C"
Access road to location

Vicinity map for:
ARCO OIL & GAS
Tomlin Federal 18-1E
1955' FSL & S10' FEL
Sec. 18, T24N, R3W
Rio Arriba Cnty., N.M.

Loc. Grnd. Elev. 6940

Starve Out

Gavilan

Canyon

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 1004-1.3
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

SF-080472-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

NA

7. UNIT AGREEMENT NAME

NA

8. FARM OR LEASE NAME

Tonkin

9. WELL NO.

#18-12 5

10. FIELD AND POOL OR WILDCAT

West Lindrith Gallup/Dakota

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

Sec. 18-T24N-R3W

14. PERMIT NO.

15. ELEVATIONS (Show whether on BUREAU OF LAND MANAGEMENT
FARMINGTON RESOURCE AREA)

6940' GR

12. COUNTY OR PARISH 13. STATE

Rio Arriba

NM

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETION

SHOOT OR ACIDIZE

ABANDON*

REPAIR WELL

CHANGE PLANS

(Other)

X

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT*

(Other)

(Note: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

We propose to change the cementing design previously submitted. The new design is as follows:

Lead: 650 sacks Lite weight w/5 lb/sk HiSeal and 1.0% CF-2 foamed w/250 scf/bbl nitrogen.

Tail: 280 sacks C1 "H" 50/50 Poz w/2% gel.

Cap: 75 sx C1 "H" w/10% gypseal and 3% CaCl₂

Plan to circulate cement to surface in one stage. Will run Halliburton "FO" tool immediately above Pictured Cliffs at a depth of ±3,050' as contingency for remedial isolation of the Ojo Alamo should cement job fail to provide satisfactory coverage.

RECEIVED
OCT 22 1986
OIL CON. DIV.
D.S. 3

18. I hereby certify that the foregoing is true and correct

915-688-5672

SIGNED

Ken W. Gosnell

TITLE

Engr. Tech. Spec.

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

OCT 20 1986

CONDITIONS OF APPROVAL, IF ANY:

/s/ J. Stan McKee

AREA MANAGER

*See Instructions on Reverse Side

NMOCC



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 1004-1-1
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

SF-080472-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

NA

7. UNIT AGREEMENT NAME

NA

8. FARM OR LEASE NAME

Tonkin

9. WELL NO.

#18-1E

10. FIELD AND POOL OR WILDCAT

West Lindrith Gallup/Dakot.

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

Sec. 18-T24N-R3W

12. COUNTY OR PARISH

Rio Arriba

13. STATE

NM

SUNDRY NOTICES AND REPORTS ON WELLS
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT-" for such proposals.)

1. OIL WELL ☒ GAS WELL ☐ OTHER ☐

2. NAME OF OPERATOR

ARCO Oil and Gas Company

3. ADDRESS OF OPERATOR

P. O. Box 1610, Midland, Texas 79702

BUREAU OF LAND MANAGEMENT
FARMINGTON RESOURCE AREA

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface

1955' FSL & 510' FEL

14. PERMIT NO.

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

6940' GR

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETION

SHOOT OR ACIDIZE

ABANDON*

REPAIR WELL

CHANGE PLANS

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT*

(Other)

(Note: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any
proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones perti-
nent to this work.)*

Tonkin Federal #18-1E

Change From

0-350' 9-5/8", 53.5#, S-125, LTC Surface Casing
w/200 sx cement or to surface

to

0-500' 9-5/8", 53.5#, S-125, LTC Surface Casing
w/265 sx cement or to surface.

18. I hereby certify that the foregoing is true and correct

915-688-5672

SIGNED

TITLE Engr. Tech. Spec.

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

OCT 29 1986

AREA MANAGER

*See Instructions on Reverse Side

NMCCG

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the
United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

ACCEPTED FOR RECORD

NOV 19 1986

FARMINGTON RESOURCE AREA

BY

18. I hereby certify that the foregoing is true and correct

SIGNED

TITLE Drilling Engineer

DATE 11/17/86

(This space for Federal or State office use)

General: This form is designed for submitting proposals; eral and Indian lands pursuant to applicable Federal law and State law and regulations. Any necessary special instructions local, area, or regional procedures and practices, either are st

Item 4: If there are no applicable State requirements, loc State or Federal office for specific instructions.

Item 17: Proposals to abandon a well and subsequent rep In addition, such proposals and reports should include reasons fluid contents not sealed off by cement or otherwise; depths (above plugs; amount, size, method of parting of any casing; the conditioned for final inspection looking to approval of the aban

The Privacy Act of furnished the follow application.

AUTHORITY: 30 U.

PRINCIPAL PURPOSE approve applications, or Indian lease.

ROUTINE USES: (1. or completed subject those actions cover or modify operations the record and/or it foreign agencies, wi ections.

EFFECT OF NOT disclosure of the info

The Paperwork Red you that:

This information is sequent well operati

This information wi and when requeste authorized.

Response to this re 43 CFR Part 3160.