

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, NM 87504-2088

Form C-101
Revised February 10, 1994
Instructions on back
submit to Appropriate District Office
State Lease - 6 Copies
Fee Lease - 5 Copies

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

Operator Name and Address. ARCH PETROLEUM, INC. 10 DESTA DRIVE, STE. 420E MIDLAND, TX 79705		OGRID Number 000962
		API Number 30-025- 33544
Property Code 14920	Property Name MATTERN	Well No. 4

7 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North / South line	Feet from the	East / West line	County
J	30	21S	37E		2310'	South	2310	EAST	Lea

8 Proposed Bottom Hole Location if Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North / South line	Feet from the	East / West line	County
Proposed Pool 1 DRINKARD					Proposed Pool 2				

Work Type Code	Well Type Code	Cable / Rotary	Lease Type Code	Ground Level Elevation
N	O	R	P	3491'
Multiple	Proposed Depth	Formations	Contractor	Spud Date
No	6,800'	DRINKARD	UNKNOWN	9/1/96

Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight / foot	Setting Depth	Sacks of Cement	Estimated TOC
11"	8-5/8"	24#	1250'	600 sx.Cl.'C'	SURFACE
7-7/8"	5-1/2"	15.5#	6,800'	1650 sx.Cl.'C'	1075'

Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

MUD PROGRAM;
O-1075' FW/Spud Mud 8.8-9.0 #/gal., 32 visc., 10 pH
1250'-6,800' BW 10#/gal., 28 visc., 10 pH
6800'-6800 BW/Starch 10#/gal., 30 visc., 10 pH

See attached BOP drawing for 3000 psi system.

Permit Expires 1 Year From Approval
Date Unless Drilling Underway

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

Signature: *Bobbie Brooks*

Print name: **Bobbie Brooks**

Title: **Production Analyst**

Date: **8/19/96** Phone: **685-1961**

OIL CONSERVATION DIVISION

Approved by: **ORIGINAL SIGNED BY JERRY SEXTON**
Title: **DISTRICT I SUPERVISOR**

Approval Date: **AUG 21 1996** Expiration Date:

Conditions of Approval:
Attached ☐

C-101 Instructions

Measurements and dimensions are to be in feet / inches. Well locations will refer to the New Mexico Principal Meridian.

IF THIS IS AN AMENDED REPORT CHECK THE BOX LABELED "AMENDED REPORT" AT THE TOP OF THIS DOCUMENT.

1. Operator OGRID number. If you do not have one it will be assigned and filed in by the District office.
2. Operator's name and address.
3. API number of this well. If this is a new drill the OCD will assign the number and fill it in.
4. Property code. If this is a new property the OCD will assign the number and fill it in.
5. Property name that used to be called 'well name'.
6. The number of this well on the property.
7. The surveyed location of this well New Mexico Principal Meridian NOTE: If the United States government survey designates a Lot Number for this location use that number in the UL or lot no. box. Otherwise use the OCD Unit letter.
8. The proposed bottom hole location of this well at TD.
- 9 and 10. The proposed pool(s) to which this well is being drilled.
11. Work type code from the following table:

N	New Well
E	Re-entry
D	Drill deeper
P	Plugback
A	Add a zone

12. Well type code from the following table:

O	Single oil completion
G	Single gas completion
M	multiple completion
I	Injection well
S	SWD well
W	Water supply well
C	Carbon dioxide well

13. Cable or rotary code
- | | |
|---|--------------------------|
| C | Propose cable tool drill |
| R | Propose to rotary drill |

14. Lease type code from the following table:

F	Federal
S	State
P	Private
N	Navajo
J	Jicarilla
U	Ute
I	Other indian tribe

15. Ground level elevation above sea level.

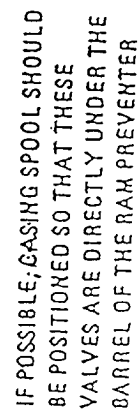
16. Intend to multiple complete? Yes or No.

17. Proposed total depth of this well.

18. Geologic formation at TD.
19. Name of the intended drilling company if known.
20. Anticipated spud date.
21. Proposed hole size ID inches, proposed casing OD inches, casing weight in pounds per foot, setting depth of the casing or depth and top of liner, proposed cementing volume, and estimated top of cement.
22. Brief description of the proposed drilling program and BOP program. Attach additional sheets if necessary.
23. The signature, printed name, and title of the person authorized to make this report. The data this report was signed and the telephone number to call for questions about this report.

3M (3,000 psi) Working Pressure

- Spacesaver preventers are acceptable



DISTRICT II
P.O. Drawer 10, Artesia, NM 88211-0719

DISTRICT III
1000 Rio Brazos Rd., Artesia, NM 87410

DISTRICT IV
P.O. Box 9088, Santa Fe, N.M. 87504-9088

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-33544	Pool Code 1912D	Pool Name Drinkard
Property Code 1492D	Property Name H.T. MATTERN	Well Number 4
OGED No. 962	Operator Name ARCH PETROLEUM, INC.	Elevation 3491'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	30	21 S	37 E		2310	SOUTH	2310	EAST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

LOT 1 36.95 AC.			
LOT 2 36.97 AC.			
LOT 3 36.99 AC.			
LOT 4 37.01 AC.			

OPERATOR CERTIFICATION

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

Bobbie Brooks
Signature

BOBBIE BROOKS
Printed Name

PRODUCTION ANALYST
Title

8/19/96
Date

SURVEYOR CERTIFICATION

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 belief.

AUGUST 13, 1996

Date Surveyed

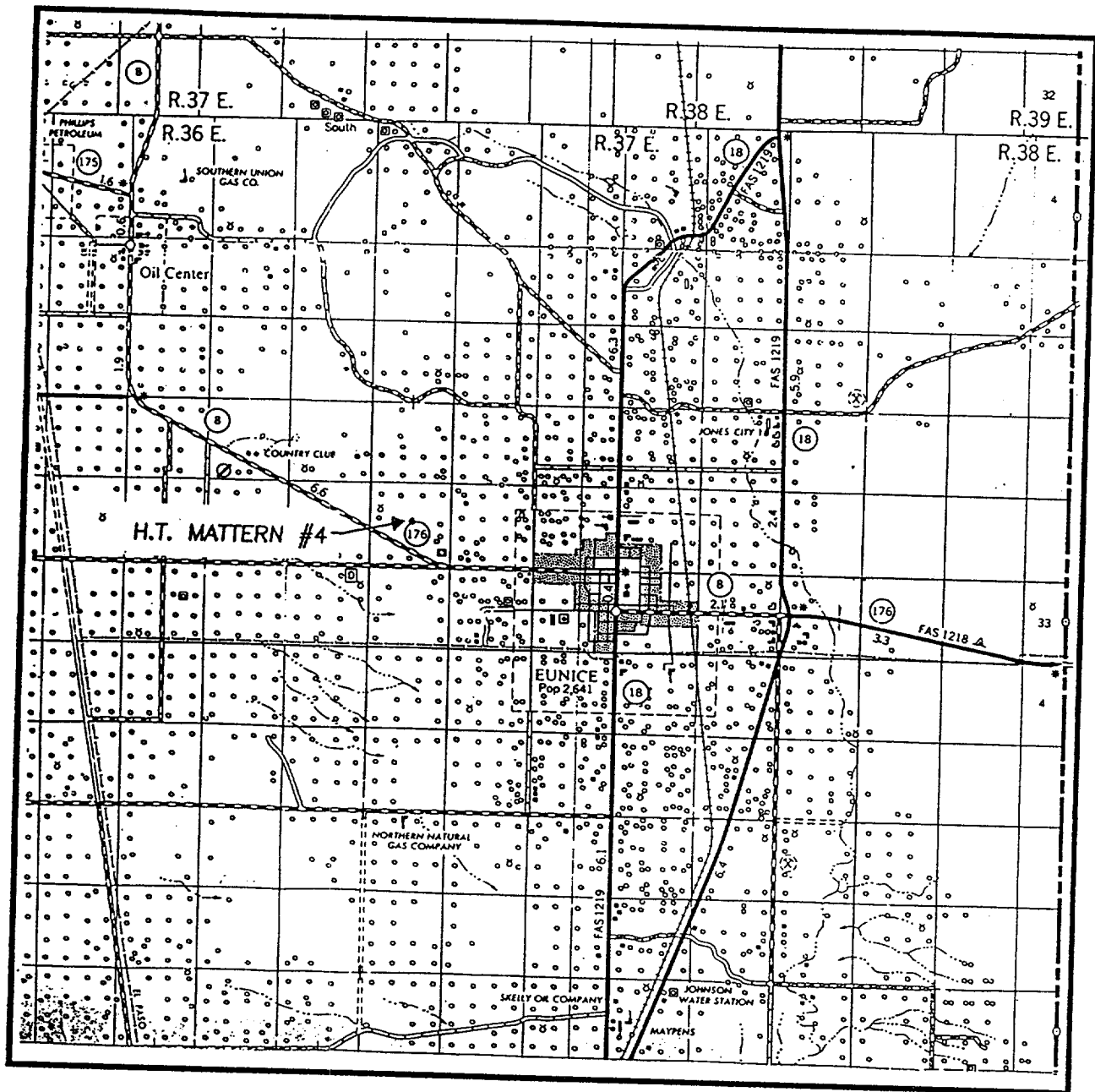
Ronald J. Eidson
Signature & Seal of Professional Surveyor

RES

3239
W.O. Num 96-114007

Certificate No. **JOHN W. WEST** 676
RONALD J. EIDSON 3239
PROFESSIONARY SURVEYOR 12641

VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 30 TWP. 21-S RGE. 37-E

SURVEY N.M.P.M.

COUNTY LEA

DESCRIPTION 2310' FSL & 2310' FEL

ELEVATION 3491'

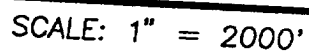
OPERATOR ARCH PETROLEUM, INC.

LEASE H.T. MATTERN

JOHN WEST ENGINEERING
HOBBS, NEW MEXICO

(505) 393-3117

THE



SEC. 30 TWP. 21-S RGE. 37-E

COUNTY _____ LEA

DESCRIPTION 2310' FSL & 2310' FEL

ELEVATION 3491'

OPERATOR ARCH PETROLEUM, INC.

LEASE _____ H.T. MATTERN

U.S.G.S. TOPOGRAPHIC MAP
EUNICE, N.M.

**JOHN WEST ENGINEERING
HOBBS, NEW MEXICO
(505) 393-3117**

ELF
ABOVE DATE DOES NOT
INDICATE WHEN
CONFIDENTIAL LOGS
WILL BE RELEASED

5-4-77
4/5/94