

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on
reverse side)

Form approved.
Budget Bureau No. 1004-0136
Expires August 31, 1985

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 *ARCOC 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 clearly and in accordance with any State requirements.)
At surface *205' FNL & 130' FEL (Unit Letter A)*
At proposed Prod. zone *Approximately the same*

5. LEASE DESIGNATION AND SERIAL NO.
SF - 078480

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
NONE

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Hammond W.N Federal

9. WELL NO.
#11

10. FIELD AND POOL, OR WILDCAT
Basin-Fruitland Coal Gas

11. SEC., T., M., OR BLK.
AND SURVEY OR AREA
A Sec 34, T27N-R8W

12. COUNTY
San Juan

13. STATE
NM

17. NO. OF ACRES ASSIGNED TO THIS WELL
320, E/2

20. ROTARY OR CABLE TOOLS
Rotary

22. APPROX. DATE WORK WILL START
Spud 11/90

13. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE
approximately 22 miles SE of Blanco, New Mexico

15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.
(Also to nearest drig. line, if any) *130'*

16. NO. OF ACRES IN LEASE
2560 1280

18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
1927'

19. PROPOSED DEPTH
2405'

21. ELEVATIONS (Show whether GR or KB)
6690.0' GR

PROPOSED CASING AND CEMENTING PROGRAM			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH
12-1/4"	8-5/8"	24#	500'
7-7/8"	5-1/2"	15.5#	2405'

See attached

It is proposed to drill a 12-1/4" hole to 500' using fresh water spud mud. After setting surface casing, the shoe will be drilled out with a 7-7/8" bit, continuing to TD. A low solids, fresh water gel/polymer mud system will be utilized. A water loss of less than 20cc will be maintained and a mud weight of 9.5 ppg will be used to balance the 1600 psi Fruitland pore pressure. At TD, open-hole logs consisting of GR/CAL/FDC will be run and 5-1/2" production casing will be set and cemented to surface.

Pursuant to the "Onshore Oil and Gas Order #1" attachments are as follows:

1. Certified Location Plat
2. Drilling Plan with attachments
3. Surface Use 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 *Kenn W. Gosnell* TITLE *Regulatory Coordinator* DATE *9-14-90*

PERMIT NO. *RECEIVED* APPROVAL DATE

APPROVED *APPROVED* TITLE

CONDITIONS OF APPROVAL, IF ANY: *AS AMENDED*

OIL CON. DIV.
DIST. 3

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly 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.

JAN 25 1991
John H. Kelly
AREA MANAGER

19-9415

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: September 30, 1990

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

MARALEX Resources, Inc.

3. Address and Telephone No.

518 17th St., Suite 1030, Denver, Colorado 80202

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

205' FNL & 130' FEL (Unit Letter A)
Sec 34, T27N, R8W

5. Lease Designation and Serial No.

SF-078480

6. If Indian, Allottee or Tribe Name

None

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Hammond W.N Federal #11

9. API Well No.

10. Field and Pool, or Exploratory Area

Basin-Fruitland Coal Gas

11. County or Parish, State

San Juan, NM

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other

- ☒ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection

Operator name and surface casing depth

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

13. 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 respectfully request the following changes be made on the original
"Application For Permit" to drill the above named well:

1) Operator name and address changed:

From: ARCO Oil and Gas Company, a Division of Atlantic Richfield Co.
P. O. Box 1610, Midland, Texas 79702

To: MARALEX Resources, Inc.
518 17th St., Suite 1030, Denver, Colorado 80202

2) Plans for setting depth of 8 5/8" Surface Casing changed:

From: 500'

To: 300'

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

Signed Gavin A. Bage

Title Regulatory Agent 915/694-6107

Date 10-17-90

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any:

Title _____

Date _____

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*See Instruction on Reverse Side

Submit to Appropriate
District Office
State Lease - 4 copies
Fee Lease - 3 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised 1-1-89

OIL CONSERVATION DIVISION

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

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

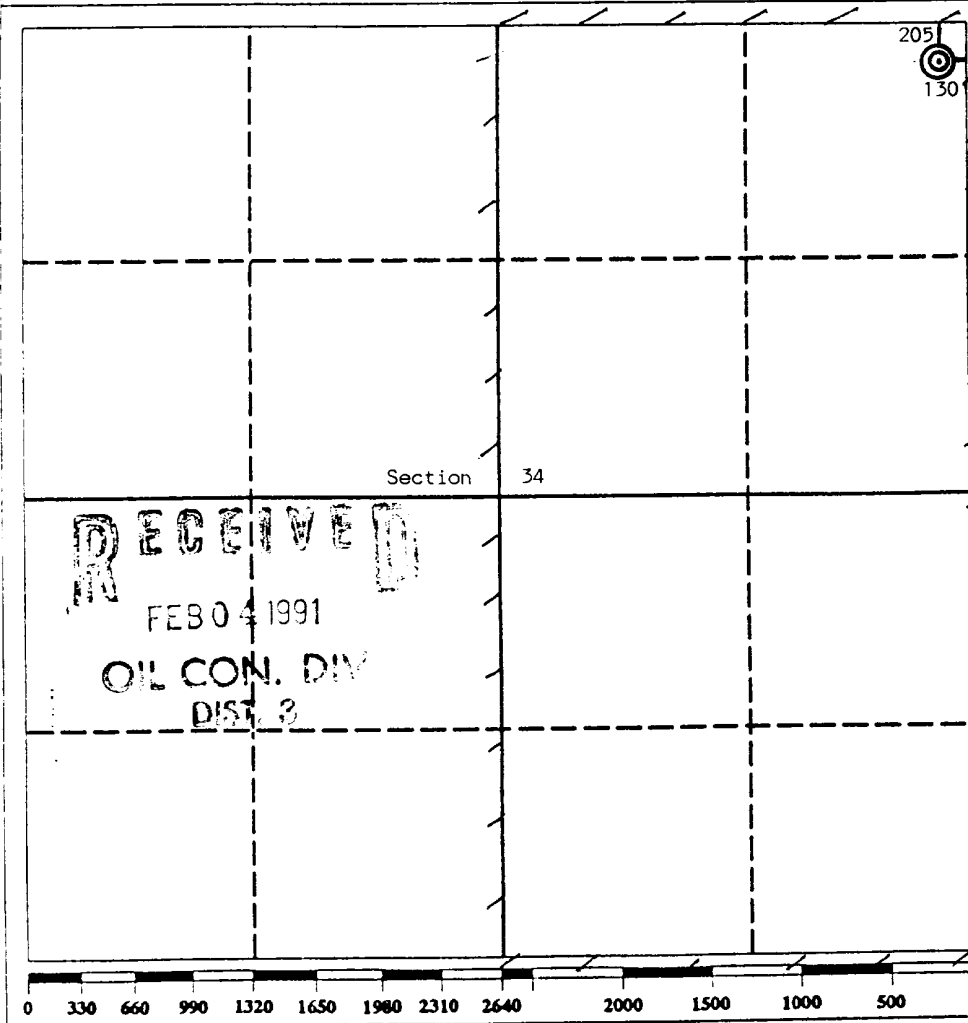
All Distances must be from the outer boundaries of the section

Operator ARCO Oil and Gas Company		Lease Hammond W.N. Federal		Well No. 11
Unit Letter A	Section 34	Township 27 North	Range 8 West	County San Juan

Actual Footage Location of Well:

205 feet from the North line and	130 feet from the East line
Ground level Elev. 6690	Producing Formation Fruitland
Pool Basin-Fruitland Coal Gas	Dedicated Acreage: 320 Acres

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interest 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 interest, has been approved by the Division.



OPERATOR CERTIFICATION

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

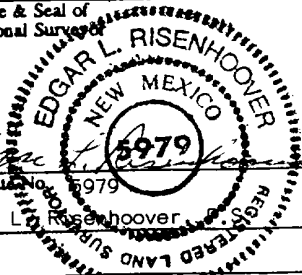
Signature
Ken W. Gosnell
Printed Name
Ken W. Gosnell
Position
Regulatory Coordinator
Company
ARCO Oil & Gas Co.
Date
9-4-90

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 knowledge and belief.

Date Surveyed
August 13, 1990

Signature & Seal of Professional Surveyor
Edgar L. Risenhoover
Certificate No. 1979
Edgar L. Risenhoover



ARCO Hammond W.N FED #11
Exhibit 4A
Existing Roads

