

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  
Amoco Production Co.

3. ADDRESS OF OPERATOR  
501 Airport Drive, Farmington, N M 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*)  
At surface 670' FSL x 1490' FEL  
845 1730

At proposed prod. zone same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
24 miles west of Farmington

15. DISTANCE FROM PROPOSED\*  
LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drig. unit line, if any)  
670'

18. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.  
2200' N.W.

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
5100' GR  
5105

23. PROPOSED CASING AND CEMENTING PROGRAM

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH |
|--------------|----------------|-----------------|---------------|
| 17-1/2"      | 13-3/8"        | 48#, H-40       | 200'          |
| 12-1/4"      | 9-5/8"         | 36#, K-55       | 2165'         |
| 8-3/4"       | 7"             | 23#, N-80       | 7165'         |
|              |                | 20#, K-55       |               |

5. LEASE DESIGNATION AND SERIAL NO.  
I-89-IND-58

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
Navajo Tribe

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
USG Section 18

9. WELL NO.  
45

10. FIELD AND POOL, OR WILDCAT  
Hogback Penn & Leadville

11. SEC., T., R., M., OR BLK.  
AND SURVEY OR AREA  
SW/SE Sec 18, T29N, R16W

12. COUNTY OR PARISH  
San Juan

13. STATE  
N.M.

17. NO. OF ACRES ASSIGNED  
TO THIS WELL  
40160/40

20. ROTARY OR CABLE TOOLS  
Rotary

22. APPROX. DATE WORK WILL START\*  
as soon as permitted

This action is subject to administrative  
appeal pursuant to 30 CFR 290.

Amoco proposes to drill the above well to further develop the Hogback Penn & Leadville reservoirs. The well will be drilled to the surface casing point using native mud. The well will then be drilled to a TD with a low solids nondispersed mud system. Completion design will be based on open hole logs. Copy of all logs will be filed upon completion. Amoco's standard blowout prevention will be employed; see attached drawing for blowout preventer design. Upon completion the well site will be cleaned and the reserve pit filled and leveled.

No H2S gas is expected to be encountered based on the drilling & completion of the USG Section 18 #38.

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 BDS Shaw Adm. Supervisor DATE 4/6/85

(This space for Federal or State use)

PERMIT NO.                      APPROVAL DATE                     

APPROVED BY                      TITLE                     

CONDITIONS OF APPROVAL, IF ANY: OIL DISC. 3

RECEIVED

APPROVED  
AS AMENDED

JUN 11 1985

JUN 04 1985

for Stan McKee  
M. MILLENBACH  
AREA MANAGER

NMOCC

\*See Instructions On Reverse Side

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

|   |                      |                                |                         |                           |
|---|----------------------|--------------------------------|-------------------------|---------------------------|
| Operator<br><b>AMOCO PRODUCTION COMPANY</b> |                      | Lease<br><b>USG SECTION 18</b> |                         | Well No.<br><b>45</b>     |
| Unit Letter<br><b>0</b>                     | Section<br><b>18</b> | Township<br><b>29 NORTH</b>    | Range<br><b>16 WEST</b> | County<br><b>SAN JUAN</b> |

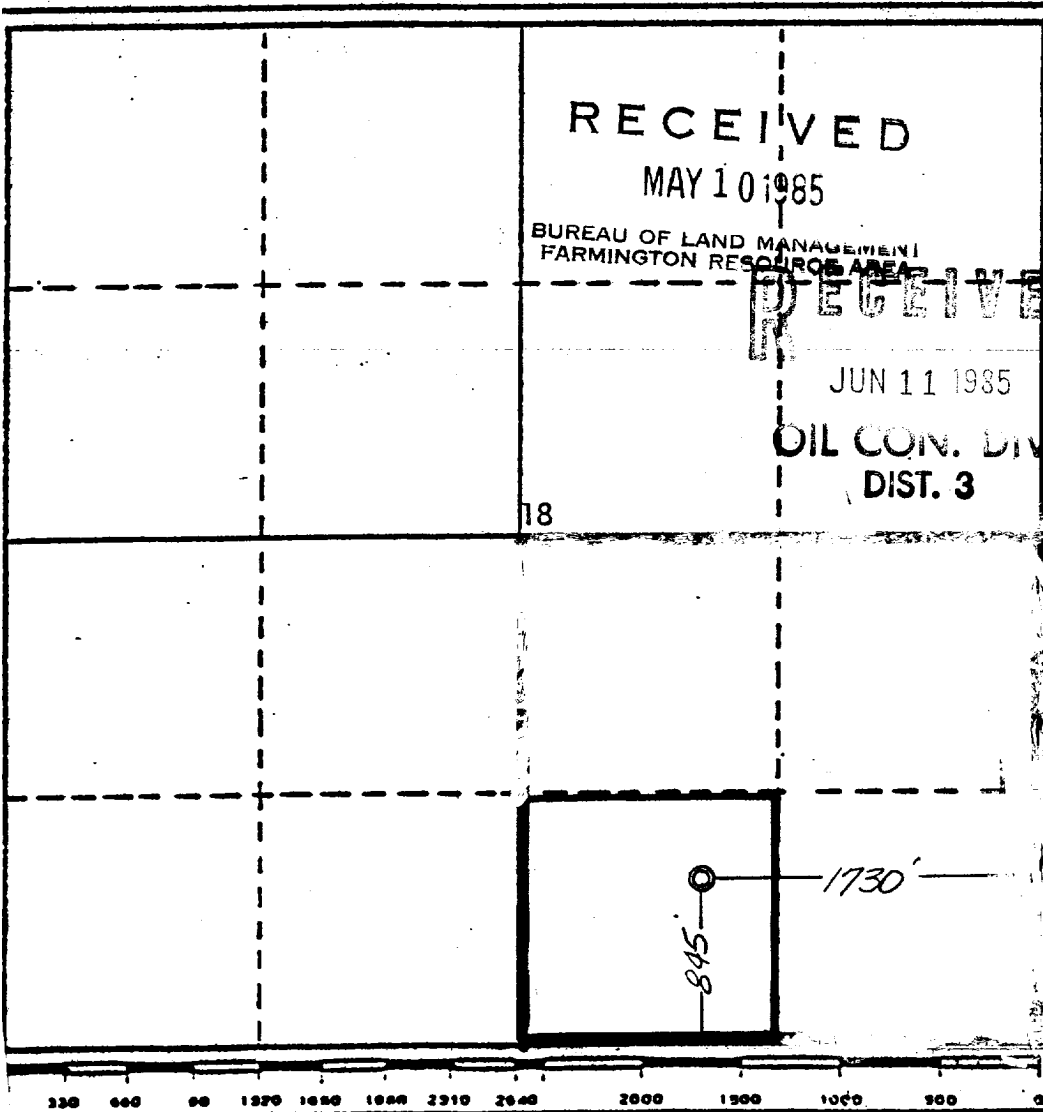
|   |  |   |                                       |  |
|---|--|---|---------------------------------------|--|
| Actual Footage Location of Well:<br><b>845</b> feet from the <b>SOUTH</b> line and <b>1730</b> feet from the <b>EAST</b> line |  |   |                                       |  |
| Ground Level Elev.<br><b>5105</b>   | Producing Formation<br><b>Penn/Leadville</b> | Pool<br><b>Hogback Penn/Unders. Leadville</b> | Dedicated Acres<br><b>40/40</b> Acres |  |

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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).
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.

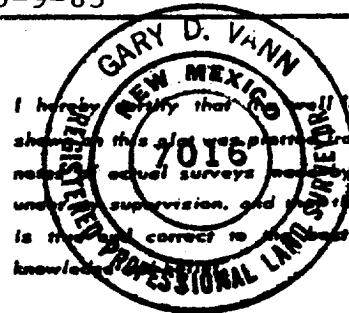


CERTIFICATION

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

*BDS Shaw*

Name  
**D. Shaw**  
Title  
**Adm. Supervisor**  
Company  
**Amoco Production Co.**  
Date  
**5-9-85**



Date Surveyed  
**May 3, 1985**  
Registered Professional Engineer and/or Land Surveyor  
*Gary D. Vann*  
**Gary D. Vann**  
Certificate No.  
**7016**