

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  
AMOCO PRODUCTION COMPANY

3. ADDRESS OF OPERATOR  
501 AIRPORT DRIVE, FARMINGTON, NEW MEXICO 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)  
At surface 1070' FSL & 1150' FWL, Section 10, T-26-N, R-4-W  
At proposed prod. zone Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
20 Miles SSE of Gobernador, New Mexico

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 1070'  
18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 550'

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
6839' GL

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
13 3/8"	9 5/8"	36#	350'	280 sz
8 3/4"	7 "	20#	4050'	450 sz
6 1/4"	4 1/2"	10.5#	7500'	450 sz

The above well is being drilled to further develop the B.S. Mesa Gallup Field. The well will be drilled with a low solids non-dispersed mud system. Completion design will be based on open hole logs. The acreage is dedicated to El Paso Natural Gas Company. Additional information required by NGL-6 for the application to drill and a Multi-Point Surface Use Plan are attached.

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 J. L. Kueh TITLE Area Engineer DATE AUG 16 1978

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

ok Brink

30-039-21852  
5. LEASE DESIGNATION AND SERIAL NO.  
Hicarilla Apache 102  
6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
Hicarilla Apache  
7. UNIT AGREEMENT NAME  
8. FARM OR LEASE NAME  
Hicarilla Apache 102  
9. WELL NO.  
31  
10. FIELD AND POOL, OR WILDCAT  
B.S. Mesa Gallup ext.  
11. SEC., T., R., E., OR BLK. AND SURVEY OR AREA  
SW/4 SW/4 Section 10  
T-26-N, R-4-W  
12. COUNTY OR PARISH 13. STATE  
Rio Arriba New Mexico  
17. NO. OF ACRES ASSIGNED TO THIS WELL  
160  
20. ROTARY OR CABLE TOOLS  
Notary  
22. APPROX. DATE WORK WILL START\*  
As soon as well permitted



RECEIVED

AUG 16 1978

GEOLOGICAL SURVEY  
D.O. COLO.

## 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.

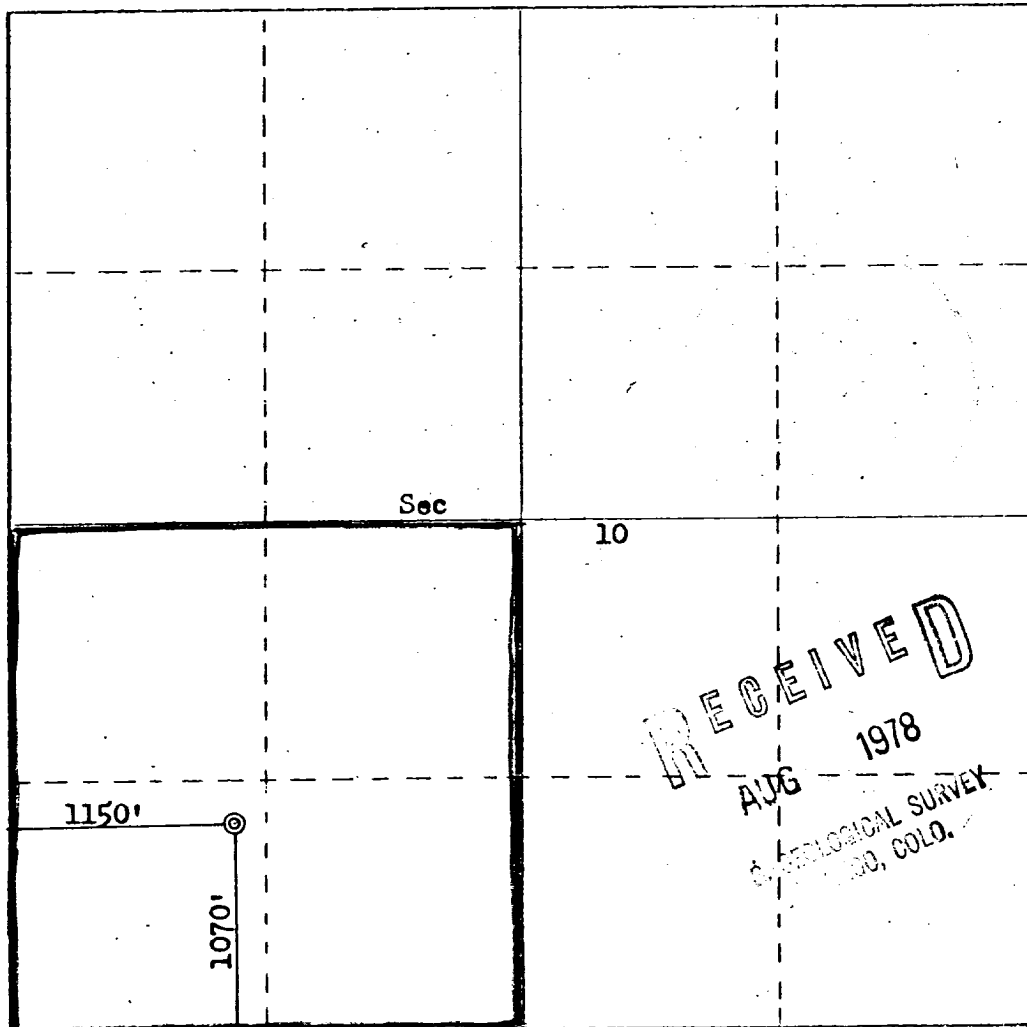
Operator <b>AMOCO PRODUCTION COMPANY</b>			Lease <b>JICARILLA APACHE 102</b>		Well No. <b>31</b>
Unit Letter <b>M</b>	Section <b>10</b>	Township <b>26N</b>	Range <b>1W</b>	County <b>Rio Arriba</b>	
Actual Footage Location of Well:					
<b>1070</b>	feet from the <b>South</b>	line and	<b>1150</b>	feet from the <b>West</b>	line
Ground Level Elev. <b>6839</b>	Producing Formation <b>Gallup</b>	Pool <b>B.S. Mesa Gallup ext.</b>		Dedicated Acreage: <b>160</b>	Acreage

1. Outline the acreage dedicated to the subject well by colored pencil or hachure 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 Commission.



**CERTIFICATION**

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

*[Signature]*

Name  
**AREA ENGINEER**

Position  
**AMOCO PRODUCTION COMPANY**

Company  
**AUGUST 9, 1978**

Date

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 8, 1978**

Registered Professional Engineer and or Land Surveyor  
*[Signature]*  
**Fred B. Kerr Jr.**

Certification No.  
**3950**

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**AUG 1978**  
**GEOLOGICAL SURVEY**  
**BO, COLO.**