

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE\*  
(Other instructions on  
reverse side)

30-039-24229  
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

Amoco Production Company

3. ADDRESS OF OPERATOR

2325 East 30th Street Farmington, NM 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*

At surface

1650' FNL X 1650' FWL

At proposed prod. zone Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

Approximately 4 miles northeast of Regina

15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drig. unit line, if any)

1650'

16. NO. OF ACRES IN LEASE

480

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

40

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

19. PROPOSED DEPTH

6500'

20. ROTARY OR CABLE TOOLS

Rotary

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

7217' GR

DRILLING OPERATIONS AUTHORIZED ARE  
SUBJECT TO COMPLIANCE WITH ATTACHED

22. APPROX. DATE WORK WILL START\*

As soon as permitted

23.

PROPOSED CASING AND CEMENTING PROGRAM

This action is subject to technical and  
procedural review pursuant to 43 CFR 3165.3  
and approval of the BLM Director.

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	AMOUNT OF CEMENT
12-1/4"	9-5/8"	32# K55	300'	350 cf Class B, 2% CaCl <sub>2</sub> , 15.6 pp
8-3/4"	5-1/2"	15.5# K55	6500'	794 cf Class B 50:50 poz,
		17# K55	DV tool set @ 3500'	10% salt, .6% FLA, 13.9 ppq, tailed in with 118 cf Class B 1110 cf Class B 65:35 poz, 10% salt, .6% FLA, 12.1 ppq, tailed in with 216 cf Class B

Amoco proposes to drill the above well to further develop the Regina Gallup reservoir. The well will be drilled to the surface casing point using native mud. The well will then be drilled to TD with a low solids nondispersed mud system. Completion design will be based on open hole logs. Copies of all logs will be filed upon completion. Amoco's standard blowout prevention will be employed; see attached drawing for design. Upon completion the well site will be cleaned and the reserve pit filled and leveled. The gas from this well is not dedicated.

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 prevention program, if any.

24.

SIGNED

B. Shaw

TITLE

Adm Supervisor

DATE May 5, 1988

(This space for Federal or State office use)

PERMIT NO.

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

RECEIVED  
JUN 09 1988

NMOCC OIL CON. DIV.  
DIST. 3

\*See Instructions On Reverse Side

APPROVED

AS AMENDED

DATE JUN 06 1988

AREA MANAGER

SUPPLEMENTAL INFORMATION TO FORM 3160-3

The geological name of the surface formation is the San Juan.

Estimated tops of important potential hydrocarbon bearing formations:

<u>FORMATION</u>	<u>DEPTH</u>	<u>ELEVATION</u>
Ojo Alamo	1181'	+ 6050'
Fruitland	1286'	+ 5945'
Pictured Cliffs	1531'	+ 5700'
Chacra		
Cliffhouse	3881'	+ 3350'
Menefee	4006'	+ 3225'
Point Lookout	4481'	+ 2750'
Gallup Niobrara A	5871'	+ 1360'
<del>Dakota</del> Niobrara C	6031'	+ 1200'
Morrison Bluff		
Summerville		
Todilto		
Entrada		
Navajo		
Wingate		
Chinle		
DeChelly		
Hermosa		
Molas		
Mississippian Leadville		
TOTAL DEPTH	6500'	+ 731'

Estimated KB elevation: 7230'.

Drilling fluid to TD will be a low solids non-dispersed mud system. Open hole logging program will include logs from TD to below surface casing.

GR-SP-DIL-Cal ; HDT Dipmeter; Borehole Televiwer

Completion design will be based on these logs. No cores or drill stem tests will be taken.

Operations will commence when permitted and last approximately 10 weeks.

Amoco's standard blowout prevention will be employed (see attached drawing).

## OIL CONSERVATION DIVISION

P. O. BOX 2088

Form C-102  
Revised 10-1-78STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT

SANTA FE, NEW MEXICO 87501

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

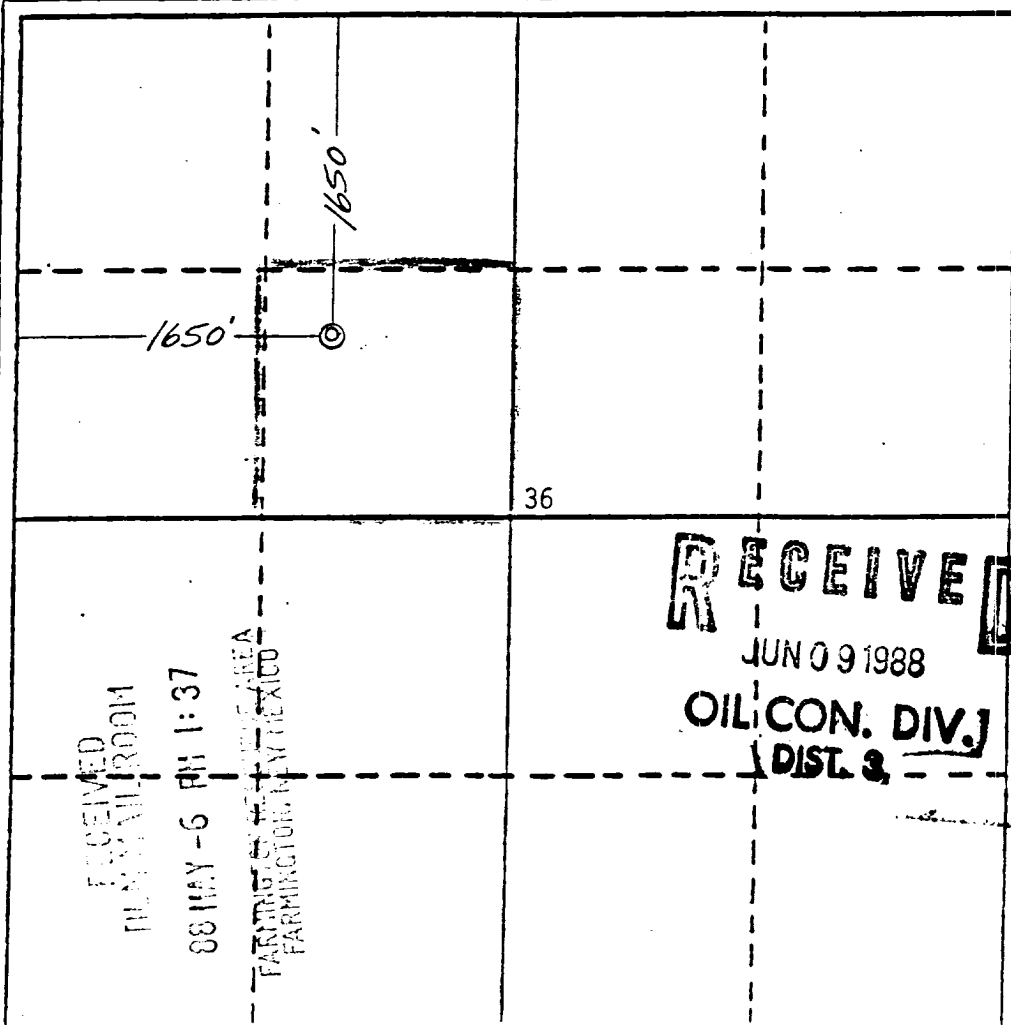
Operator AMOCO PRODUCTION COMPANY		Lease SOUTHERN UNION FEDERAL COM		Well No. # 1	
Unit Letter F	Section 36	Township 24 NORTH	Range 1 WEST	County RIO ARriba	
Actual Footage Location of Well 1650 feet from the NORTH line and 1650 feet from the WEST line					
Ground Level Elev. 7217	Producing Formation Gallup	Pool Regina Gallup EXT		Dedicated Acreage 40 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 Communitization

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.

*B D Shaw*

Name

*B D Shaw*

Position

*Adm Supervisor*

Company

*Amoco Production Company*

Date

*May 5, 1988*

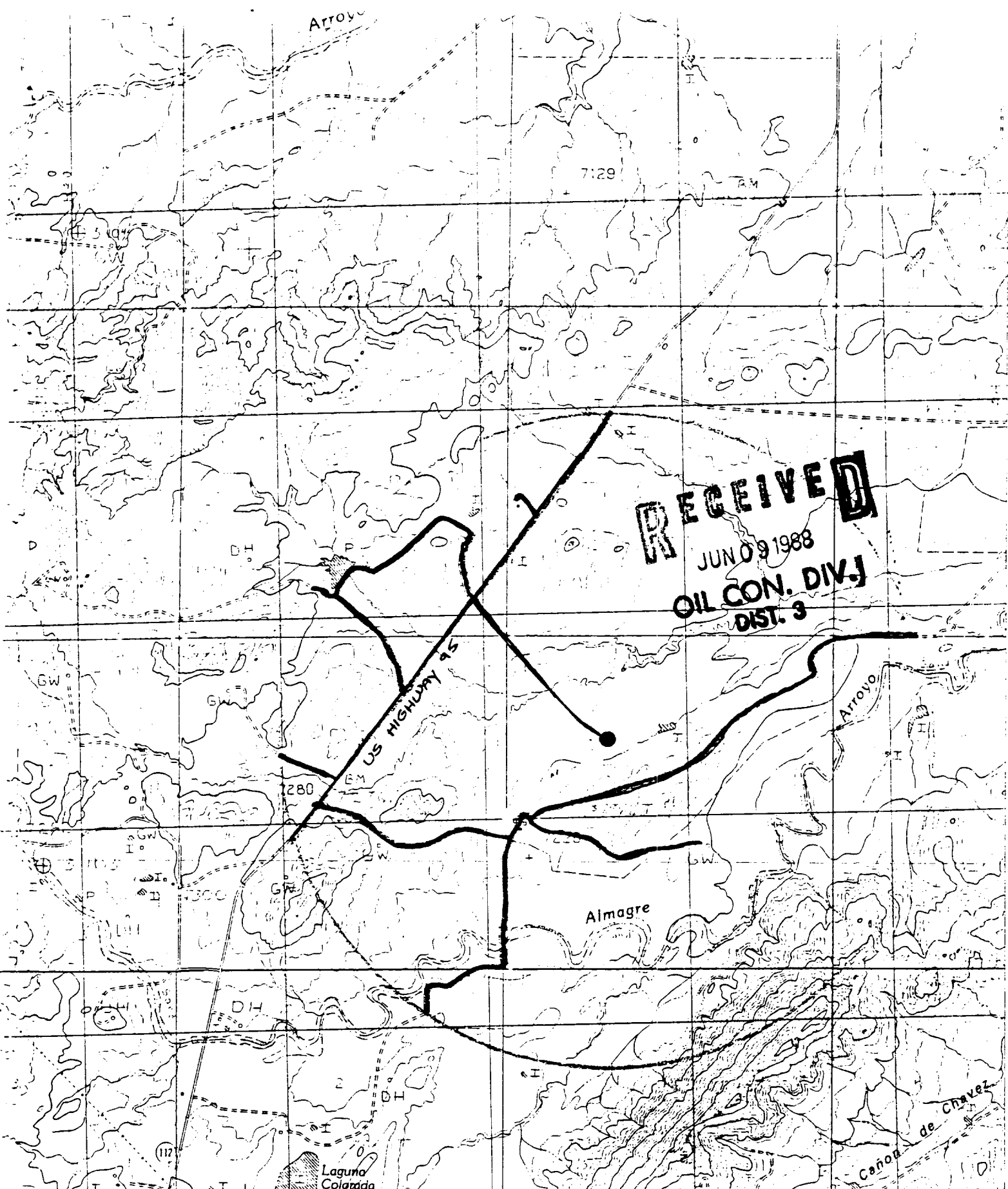
I hereby certify that the location shown on this plat was plotted from field notes and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

*April 19, 1988*Registered Professional Engineer  
and/or Land Surveyor*Gary D. Vann*  
Gary D. Vann

Certificate No.

7016



**RECEIVED**  
JUN 09 1988  
OIL CON. DIV. J  
DIST. 3

**NEW ROAD**  
**EXISTING ROADS**

000 8000 9000 10 000

EXHIBIT B  
AMOCO PRODUCTION COMPANY  
SOUTHERN UNION FEDERAL COM # 1  
1650' F/NL 1650' F/WL  
SEC. 36, T24N, R1W, N.M.P.M.  
RIO ARRIBA COUNTY, NEW MEXICO

QUADRANGLE

Trail