

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE*
(Other instructions on
reverse side)

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

30-039-24251

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 Mobil exp. + prod.

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 790' FNL x 990' FEL
At proposed prod. zone Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
Approximately 6 miles northeast of Ojito

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.
(Also to nearest drilg. unit line, if any) 790'

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
8351'

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
7141' GR

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH
12-1/4"	9-5/8"	32 # KSS	350'
8-3/4"	5-1/2"	15.5 # KSS	8351'
		17 # KSS	

24. 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.

Amoco proposes to drill the above well to expand the Gavilan Mancos pool. 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.

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SIGNED B. Shaw TITLE Adm Supervisor DATE May 5, 1988

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY: _____

APPROVED AS AMENDED JUN 06 1988
AREA MANAGER

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001 makes it a crime for any person knowingly and willfully to make to any department or agency of the

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	3383'	+ 3771
Fruitland	3506'	+ 3648
Pictured Cliffs	3738'	+ 3416
Chacra		
Cliffhouse	5469'	+ 1685
Menefee	5548'	+ 1606
Point Lookout	5874'	+ 1280
^{Niobrara} Gallup	7148'	+ 6
^{Tocito} Dakota	7493'	- 339
	8101'	- 947
Morrison Bluff		
Summerville		
Todilto		
Entrada		
Navajo		
Wingate		
Chinle		
DeChelly		
Hermosa		
Molas		
Mississippian Leadville		
TOTAL DEPTH	8351'	- 1197

Estimated KB elevation: 7154'.

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; GR-Sonic; GR-FDC-CNL

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

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-102
Revised 10-1-78

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

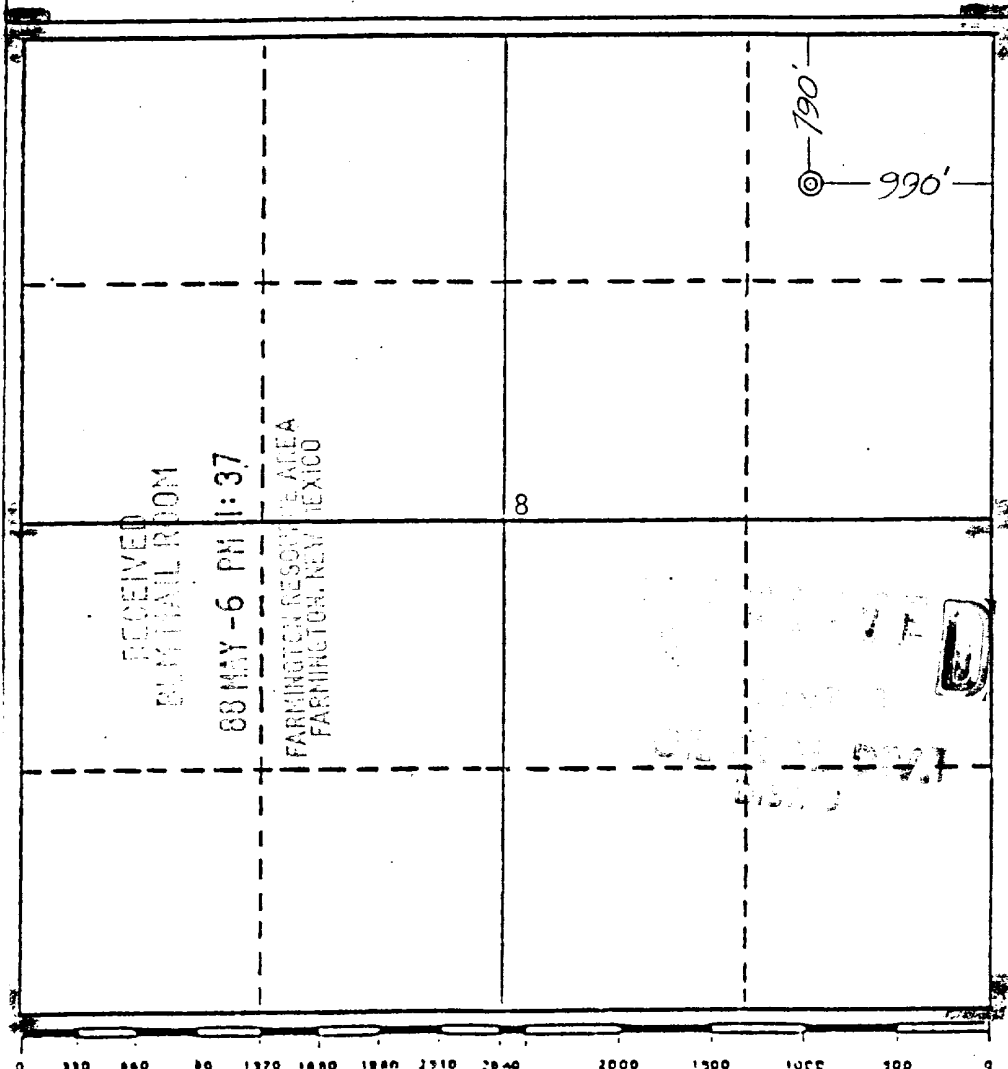
Operator <u>MOBIL PRODUCING TEXAS</u> <u>AMOCO PRODUCTION COMPANY</u>		Lease <u>MOBIL FEDERAL COM</u>		Well No. <u>1</u>
Unit Letter <u>A</u>	Section <u>8</u>	Township <u>26 NORTH</u>	Range <u>2 WEST</u>	County <u>RIO ARriba</u>
Actual Footage Location of well: 790 feet from the NORTH line and 990 feet from the EAST line				
Ground Level Elev. <u>7141</u>	Producing Formation <u>Gallup/Dakota</u>	Pool <u>Basin Dakota</u> <u>Gavilan Mancos Extension</u>	Dedicated Acreage <u>320/640</u> 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

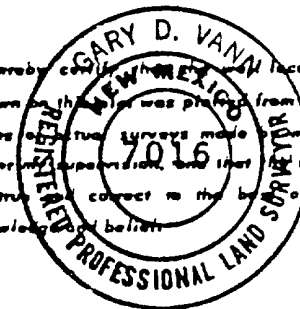
Company

Amoco Production Company

Date

May 5, 1988

I hereby certify that the 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.

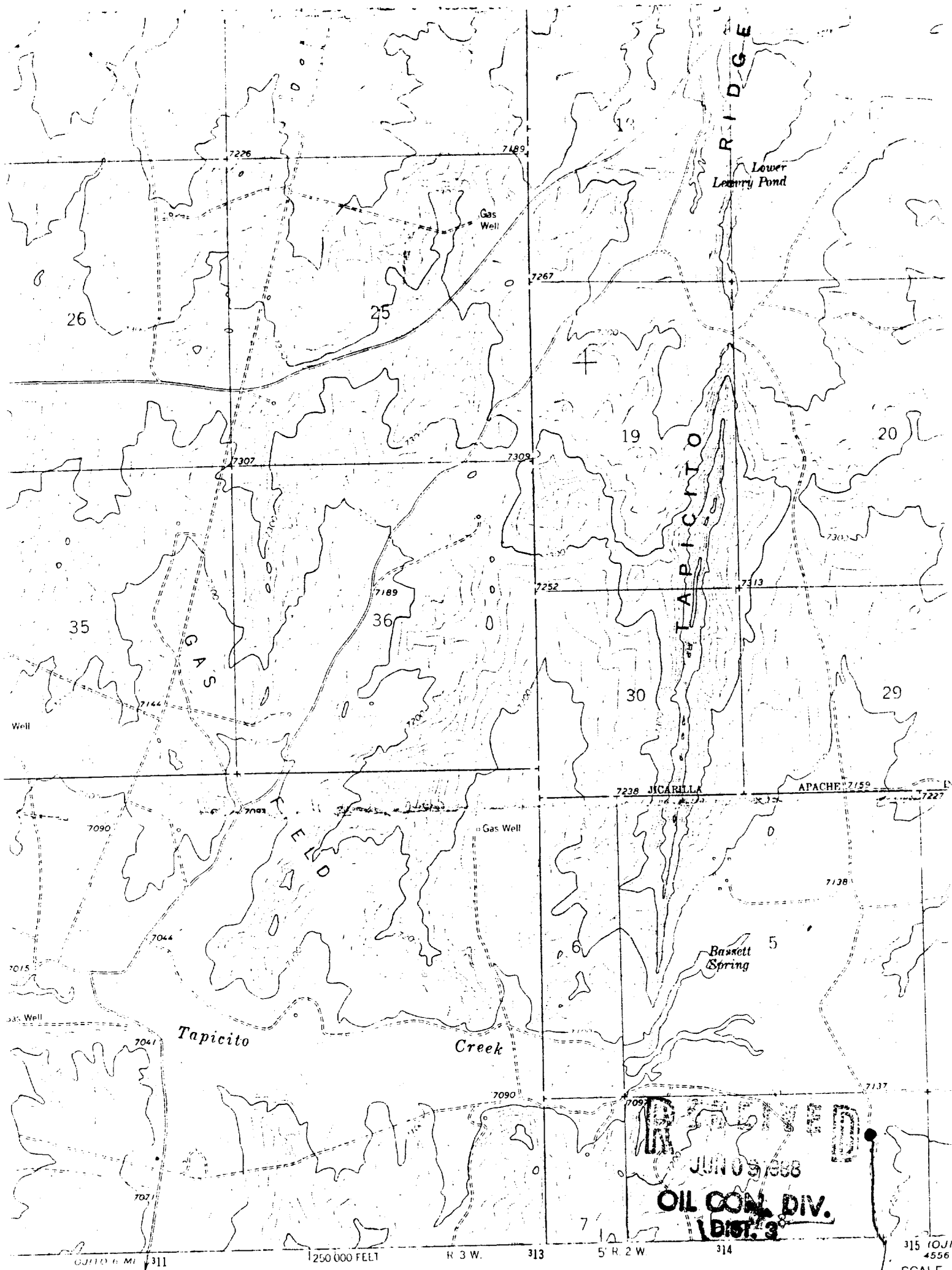


Date Surveyed

April 6, 1988Registered Professional Engineer
and/or Land SurveyorGary D. Vann

Certificate No.

7016

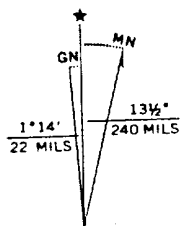


and published by the Geological Survey

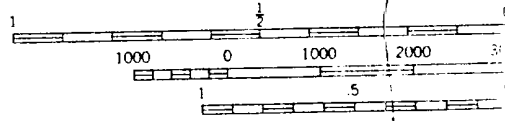
grammetric methods from aerial
1958 and 1962. Field checked 1963

1927 North American datum
based on New Mexico coordinate system, central zone
of Transverse Mercator grid ticks,
true

lines have not been established



UTM GRID AND 1963 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET



CONTOUR INTERVAL
NATIONAL GEODETIC VELOCITY

THIS MAP COMPLIES WITH NATIONAL
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER
A FOLDER/DESCRIBING TOPOGRAPHIC MAP