

DATE IN 5/10/99	SUSPENSE 5/31/99	ENGINEER DC	LOGGED KV	TYPE DHC
--------------------	---------------------	----------------	--------------	-------------

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

ADMINISTRATIVE APPLICATION COVERSHEET

THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS

Application Acronyms:

[NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location]
 [DD-Directional Drilling] [SD-Simultaneous Dedication]
 [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
 [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
 [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
 [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
 [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] TYPE OF APPLICATION - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Directional Drilling

☐ NSL ☐ NSP ☐ DD ☐ SD

Check One Only for [B] and [C]

[B] Commingling - Storage - Measurement

☒ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery

☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

MAY 10 1999

[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or ☐ Does Not Apply

[A] ☐ Working, Royalty or Overriding Royalty Interest Owners

[B] ☒ Offset Operators, Leaseholders or Surface Owner

[C] ☐ Application is One Which Requires Published Legal Notice

[D] ☒ Notification and/or Concurrent Approval by BLM or SLO

U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

[E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,

[F] ☐ Waivers are Attached

[3] INFORMATION / DATA SUBMITTED IS COMPLETE - Statement of Understanding

I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. I understand that any omission of data, information or notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with supervisory capacity.

J W Hawkins
Print or Type Name

J W Hawkins
Signature

Regulatory Affairs Engineer
Title

5/6/99
Date

Amoco Production Company

BP Amoco
Western Gas Business Unit
Post Office Box 3092
Houston, TX 77253-3092

May 6, 1999

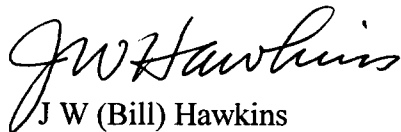
Ms. Lori Wrotenbery, Director
New Mexico Oil Conservation Division
2040 S. Pacheco Street
P. O. Box 6429
Santa Fe, NM 87505

Application for Exception to Rule 303-A- Downhole Commingling
Trigg Federal GC B #1
Unit I Section 15-T29N-R09W
Blanco Pictured Cliffs and Blanco Mesaverde Pools
San Juan County, New Mexico

Enclosed please find an administrative application form (C-107-A) and attachments for downhole commingling for the captioned well. Amoco is notifying all offset operators in the formations captioned above as well as all affected interest owners if the ownership of those formations is not common.. The Division Director may approve the proposed downhole commingling in the absence of a valid objection from any offset operator or any interest owner in those instances where ownership is not common in the zones to be commingled within 20 days after the receipt of the application if, in her opinion, waste will not result thereby, and correlative rights will not be violated.

Should you have questions regarding this application, do not hesitate to call me at (281) 366-5450.

Sincerely,



J W (Bill) Hawkins
Enclosures

cc: James Dean
Mary Corley
Wellfile
Proration File

Frank Chavez, Supervisor
NMOCD District III
1000 Rio Brazos Road
Aztec, NM 87410

Duane Spencer
Bureau of Land Management
1235 La Plata Hwy.
Farmington, NM 87401

OFFSET OPERATORS

Roelofs B #3A

Conoco, Inc.
10 Desta Drive West
Midland, Texas 79705

Burlington Resources Oil and Gas Co.
P.O. Box 4289
Farmington, NM 87499

Production Allocation Recommendation

~~Roelofs B #3A~~

Since all ownership is common, production is proposed to be allocated using fixed percentages based on average offset production from the Mesaverde and current production capability of the Dakota.

DISTRICT I
P.O. Box 1980, Hobbs NM 88241-1980

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-107-A
New 3-12-96

OIL CONSERVATION DIVISION

APPROVAL PROCESS:

DISTRICT II
811 South First St., Artesia, NM 88210-2835

2040 S. Pacheco
Santa Fe, New Mexico 87505-6429

☒ Administrative ☐ Hearing

DISTRICT III
1000 Rio Brazos Rd. Aztec, NM 87410-1693

APPLICATION FOR DOWNHOLE COMMINGLING

EXISTING WELLBORE
☒ YES ☐ NO

Amoco Production Company

PO Box 3092 Houston TX 77253-3092

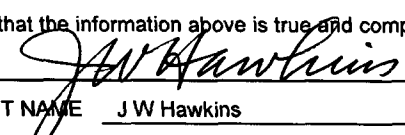
Operator	Well No.	Unit Ltr. - Sec Twp - Rge	County
Trigg Federal GC B	#1	I 15-29N-09W	San Juan

OGRID NO. 000778 Property Code 001172 API NO. 300452636400 Federal ☒ State ☐ (and/or) Fee ☐

The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zone	Lower Zone
1. Pool Name and Pool Code	Blanco Mesaverde 72319		Basin Dakota 71599
2. Top and Bottom of Pay Section (Perforations)	4657'-5340' (est.)		7376'-7548'
3. Type of production (Oil or Gas)	Gas		Gas
4. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated or Measured Original	a. (Current) 540 psi (est.) b. (Original) 993 psi (est.)	a. b.	a. 864 psi b. 1759 psi (est.)
6. Oil Gravity (° API) or Gas BTU Content	1255 btu (est.)		1219.2 btu
7. Producing or Shut-In?	New Zone		Producing
Production Marginal? (yes or no)	Yes		Yes
• If Shut-In, give data and oil/gas/water rates of last production Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data	Date: 115 mcf (est) Rates: 0.2 bcpd	Date: Rates:	Date: Rates:
• If Producing, give date and oil/gas/water rates of recent test (within 60 days)	Date: Rates:	Date: Rates:	Date: 12/14/98 Rates: 32 mcf 2 bcpd
8. Fixed Percentage Allocation Formula -% for each zone	Oil: 8 % Gas 78 %	Oil: % Gas %	Oil: 92 % Gas 22 %

9. If allocation formula is based upon something other than current or past production, or is based upon some other method, submit attachments with supporting data and/or explaining method and providing rate projections or other required data. SEE ATTACHED
10. Are all working, overriding, and royalty interests identical in all commingled zones? ☒ Yes ☐ No
If not, have all working, overriding, and royalty interests been notified by certified mail? ☐ Yes ☐ No
Have all offset operators been given written notice of the proposed downhole commingling? ☒ Yes ☐ No
11. Will cross-flow occur? ☐ Yes ☒ No If yes, are fluids compatible, will the formations not be damaged, will any cross-flowed production be recovered, and will the allocation formula be reliable. ☒ Yes ☐ No (If No, attach explanation)
12. Are all produced fluids from all commingled zones compatible with each other? ☒ Yes ☐ No
13. Will the value of production be decreased by commingling? ☐ Yes ☒ No (If Yes, attach explanation)
14. If this well is on, or communitized with, state or federal lands, either the Commissioner of Public Lands or the United States Bureau of Land Management has been notified in writing of this application. ☒ Yes ☐ No SF-078938 and SF-077091
15. NMOCD Reference Cases for Rule 303(D) Exceptions: ORDER NO(S) _____
16. ATTACHMENTS:
- * C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
 - * Production curve for each zone for at least one year. (If not available, attach explanation.)
 - * For zones with no production history, estimated production rates and supporting data.
 - * Data to support allocation method or formula.
 - * Notification list of all offset operators.
 - * Notification list of working, overriding, and royalty interests for uncommon interest cases.
 - * Any additional statements, data, or documents required to support commingling.

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

SIGNATURE	TITLE	DATE
	Regulatory Affairs Engineer	5/6/99
TYPE OR PRINT NAME	TELEPHONE NO. ()	
J W Hawkins	(281)-366-5450	

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-102
Revised 10-1-79

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

Operator AMOCO PRODUCTION COMPANY		Lease TRIGG FED GAS COM B		Well No. 1
Unit Letter I	Section 15	Township 29 N	Range 9 W	County San Juan
Actual Postage Location of Well: 2105 feet from the SOUTH line and 875 feet from the EAST line				
Ground Level Elev. 6483	Producing Formation Dakota	Pool Basin Dakota	Dedicated Acreage 320 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 Communitized

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.

		RECEIVED MAR 04 1985 BUREAU OF LAND MANAGEMENT SARASOTA RESOURCE AREA	
		875'	
		2105'	

CERTIFICATION

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

Original signed by
B. D. Shaw

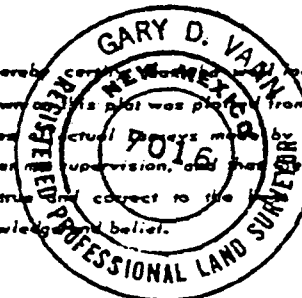
Name
B. D. Shaw

Position
Adm. Supervisor

Company
Amoco Production Company

Date
2-26-85

I hereby certify that the location shown on this plat was plotted from field notes and 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
December 26, 1984

Registered Professional Engineer
and/or Land Surveyor

Gary D. Vann

Certificate No.
7016

0 330 660 990 1320 1650 1980 2310 2640 2970 3300 3630 3960 4290 4620 4950 5280 5610 5940 6270 6600

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

311 South First., Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 South Pacheco
Santa Fe, New Mexico 87505

Form C-102

Revised October 18, 1994

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 3004526364	Pool Code 72319	Pool Name Blanco Mesaverde
Property Code 001172	Property Name Trigg Federal Gas Com B	Well Number #1
OGRID No. 000778	Operator Name AMOCO PRODUCTION COMPANY	Elevation 6483

Surface Location

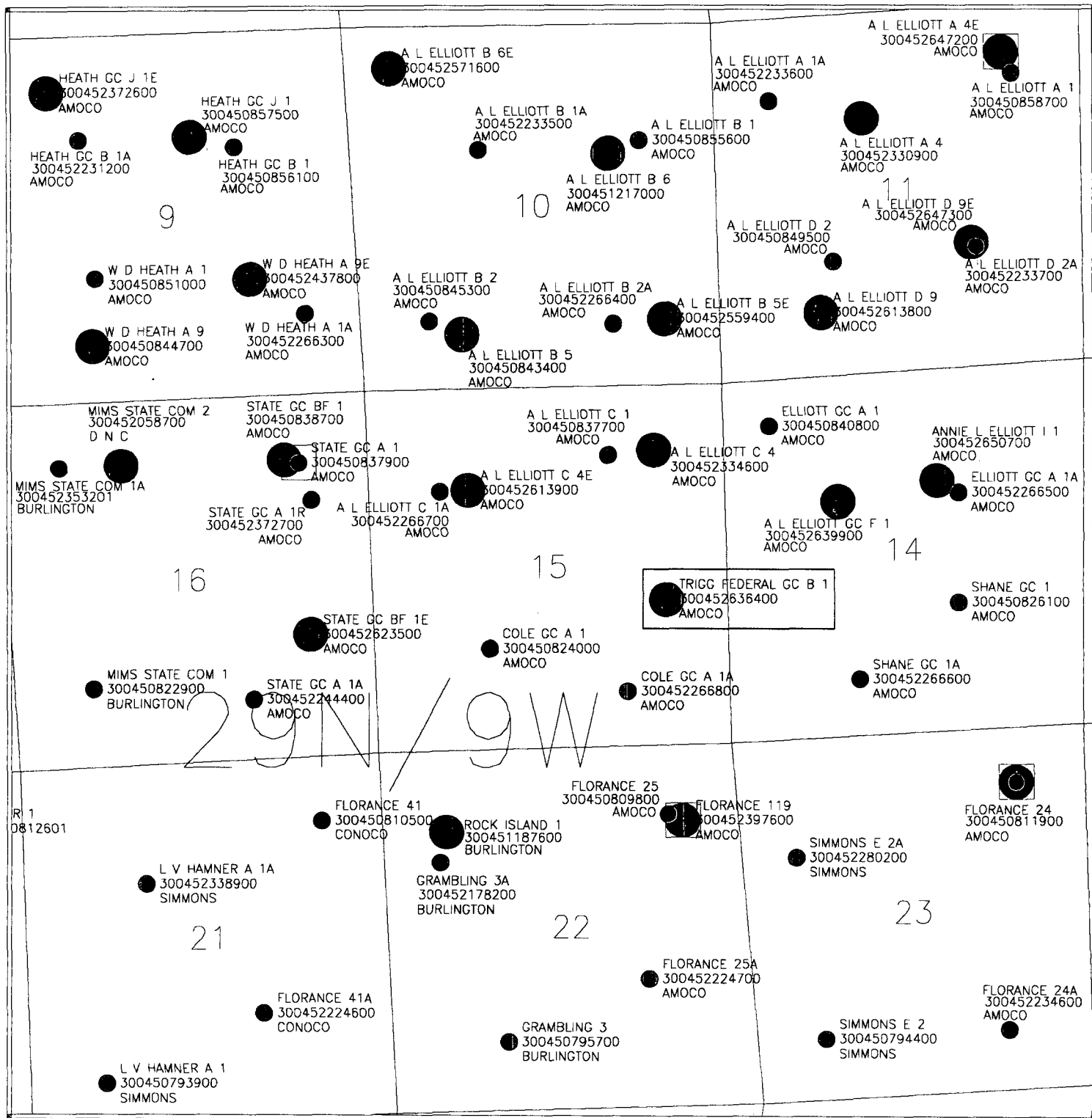
UL or lot no. UNIT I	Section 15	Township 29N	Range 9W	Lot. Idn	Feet from the 2105	North/South Line SOUTH	Feet from the 875	East/West Line EAST	County San Juan
-------------------------	---------------	-----------------	-------------	----------	-----------------------	---------------------------	----------------------	------------------------	--------------------

Bottom Hole Location if Different From Surface

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West Line	County
Dedicated Acreage: 303.67		Joint or Infill		Consolidation Code		Order No.			

**NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION**

	OPERATOR CERTIFICATION	
	<i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</i>	
	Signature Mary Corley	
	Printed Name Sr. Business Analyst	
	Position	
	Date 02/02/1999	
	SURVEY CERTIFICATION	
	<i>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.</i>	
	December 26, 1984	
	Date of Survey	
	Signature & Seal of Professional Surveyor	
	Gary D. Vann #7016	
	Certificate No.	



AMOCO PRODUCTION COMPANY		
TRIGG FEDERAL GC B #1 COMMINGLE PACKAGE DAKOTA/MESAVERDE NINE SECTION PLAT 115-29N-09W		
ALC		12/18/96
Scale 1:24,351.09		

LEGEND	
●	ACTIVE DAKOTA WELL
◐	INACTIVE DAKOTA WELL
●	ACTIVE MESAVERDE WELL
◐	INACTIVE MESAVERDE WELL

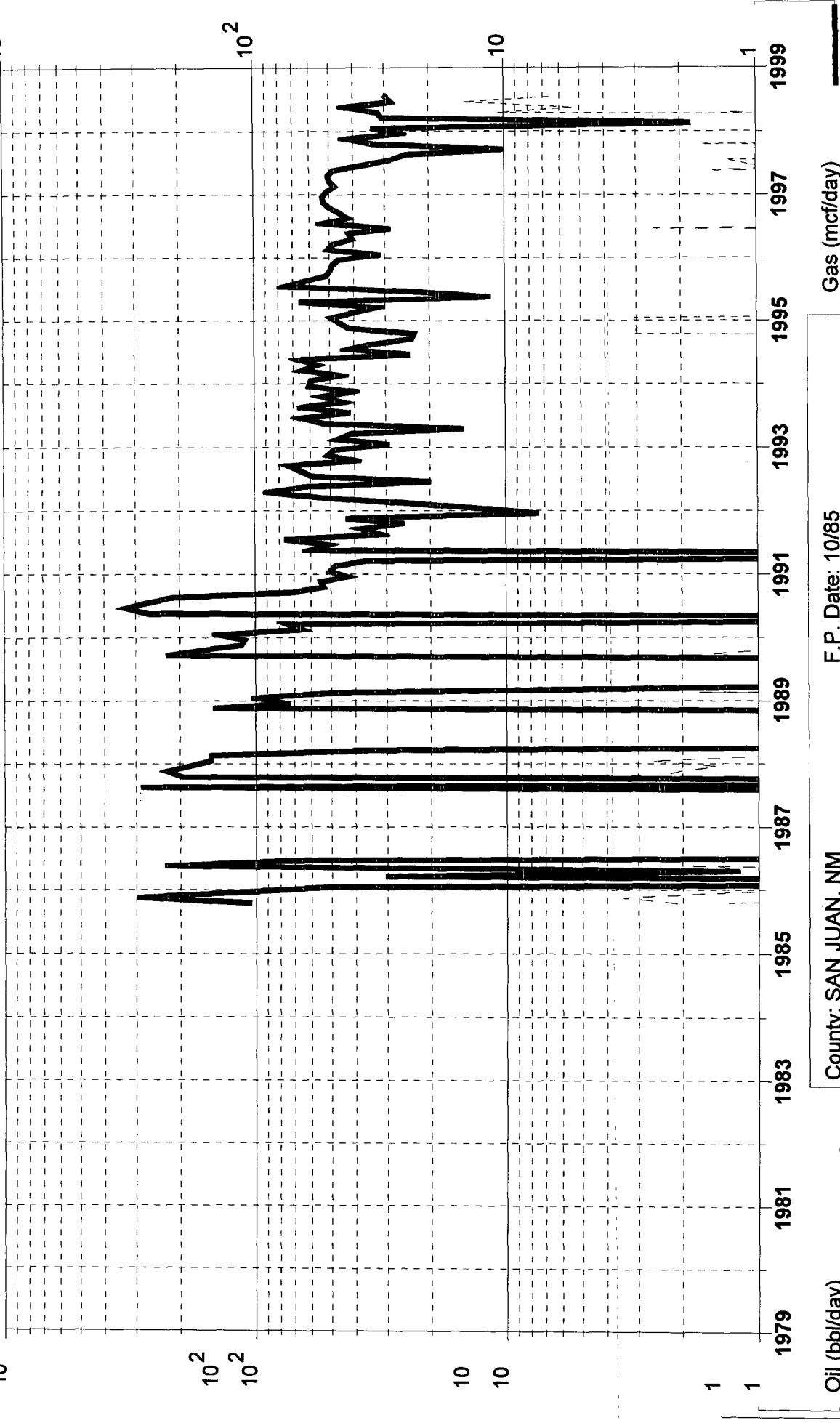
Dwights

Lease: TRIGG FEDERAL GAS COM B (1)

Retrieval Code: 251,045,29N09W15I00DK

12/17/98

10³
10³
10²
10²
10
10
1
1



Oil (bbl/day)

Water (bbl/day)

Gas (mcf/day)

County: SAN JUAN, NM

F.P. Date: 10/85

API #: 30-045-2636400

Oil Cum: 1688 bbl

Reservoir: DAKOTA

Gas Cum: 260.4 mmcf

Operator: AMOCO PRODUCTION CO

Location: 15I 29N 9W

10³
10³

Lease: A L ELLIOTT C (1)

Dwights

12/17/98

Retrieval Code: 251,045,29N09W15B00MV

10³

10²
10²

10²

10
10

10

1
1

1979 1981 1983 1985 1987 1989 1991 1993 1995 1997 1999

Oil (bbl/day)

Water (bbl/day)

Gas (mcf/day)

County: SAN JUAN, NM

F.P. Date: 06/57

API #: 30-045-0837700

Oil Cum: 8894 bbl

Reservoir: MESAVERDE

Gas Cum: 2806 mmcf

Operator: AMOCO PRODUCTION CO

Location: 15B 29N 9W

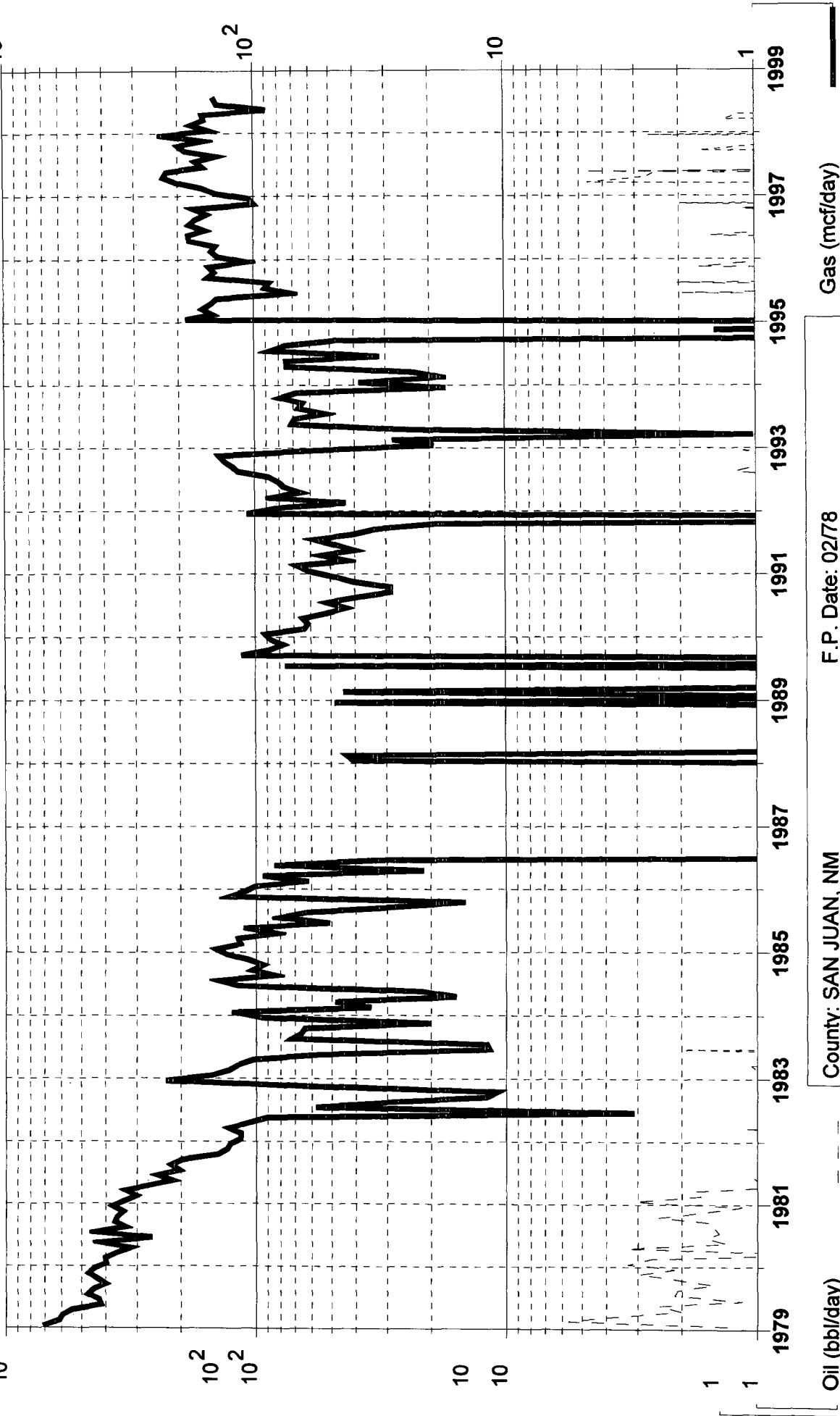
Dwights

Lease: SHANE GAS COM (1A)

Retrieval Code: 251,045,29N09W14N00MV

12/17/98

10³
10³
10²
10²
10
10
1
1



Oil (bbl/day)

Water (bbl/day)

Gas (mcf/day)

F.P. Date: 02/78

Oil Cum: 4765 bbl

Gas Cum: 1111 mmcf

Location: 14N 29N 9W

County: SAN JUAN, NM

API #: 30-045-2266600

Reservoir: MESAVERDE

Operator: AMOCO PRODUCTION CO

Trigg Fed GC B1

DK	0.08	PC	0.04
MV	0.07	FT	0.04
		CK	0.04

WELL NAME: TRIGG FEDERAL GC B #1

FORMATION: DK

SURFACE PRESS: 267

PERFS TOP: 7376

BOTTOM: 7548

$$(7376 + 7548) / 2 = 7462 \text{ Mid Perf}$$

$$7462 \times 0.08 = 597$$

$$596.96 + 267 = 864 \text{ Bottom Hole Pressure}$$

$$(7376 + 7548) / 2 = 7462 \text{ Mid Perf}$$

$$7462 \times 0.08 = 597$$

$$596.96 + 1162 = 1759 \text{ Initial Bottom Hole Pre}$$

WELL NAME: A L ELLIOTT C #1

FORMATION: MV

SURFACE PRESS: 202

PERFS TOP: 4208

BOTTOM: 4883

$$(4208 + 4883) / 2 = 4546 \text{ Mid Perf}$$

$$4545.5 \times 0.07 = 318$$

$$318.19 + 202 = 520 \text{ Bottom Hole Pressure}$$

Initial Bottom Hole Pressure 1169

WELL NAME: SHANE GC #1A

FORMATION: MV

SURFACE PRESS: 251

PERFS TOP: 4020

BOTTOM: 4824

$$(4020 + 4824) / 2 = 4422 \text{ Mid Perf}$$

$$4422 \times 0.07 = 310$$

$$309.54 + 251 = 561 \text{ Bottom Hole Pressure}$$

Initial Bottom Hole Pressure= 817

WELL NAME: TRIGG FEDERAL GC B #1

FORMATION: MV

$$\text{Initial Bottom Hole Pressure: } (1169 + 817) / 2 \approx 993 \text{ est.}$$

$$\text{Bottom Hole Pressure: } (520 + 561) / 2 \approx 540 \text{ est.}$$

$$\text{ELLIOTT C \#1/SHANE GC \#1A BTU: } (1250 + 1259.6) / 2 \approx 1255 \text{ est.}$$

$$\text{ELLIOTT C \#1/SHANE GC \#1A bbls } (1 + 6) / 2 \approx 4 \text{ est.}$$

$$\text{ELLIOTT C \#1/SHANE GC \#1A mcf } (11031 + 30755) / 2 \approx 20893 \text{ est.}$$

ALLOCATION

FM	BBL	%	GAS	%
DK	39	92%	6011	22%
MV	4	8%	20893	78%