

DATE IN 5/10/99	SUSPENSE 5/31/99	ENGINEER DC	LOGGED KV	TYPE DHC
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

2347

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

[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 87410-1893

**APPLICATION FOR DOWNHOLE COMMINGLING**

EXISTING WELLBORE  
 YES  NO

**Amoco Production Company**

**PO Box 3092 Houston TX 77253-3092**

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

Spacing Unit Lease Types: (check 1 or more)

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: Gas & Oil - Flowing: All Gas Zones: Estimated Current Measured Current Estimated or Measured Original	a. (Current) 540 psi (est.)	a.	a. 864 psi
	b. (Original) 993 psi (est.)	b.	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)  • 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  • If Producing, give date and oil/gas/water rates of recent test (within 60 days)	Yes		Yes
	Date: 115 mcf (est) Rates: 0.2 bcpd	Date: Rates:	Date: Rates:
	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 J W Hawkins TITLE Regulatory Affairs Engineer DATE 5/6/99  
TYPE OR PRINT NAME J W Hawkins TELEPHONE NO. (   ) (281)-366-5450

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088  
SANTA FE, NEW MEXICO 87501

Form C-102  
Revised 10-1-79

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

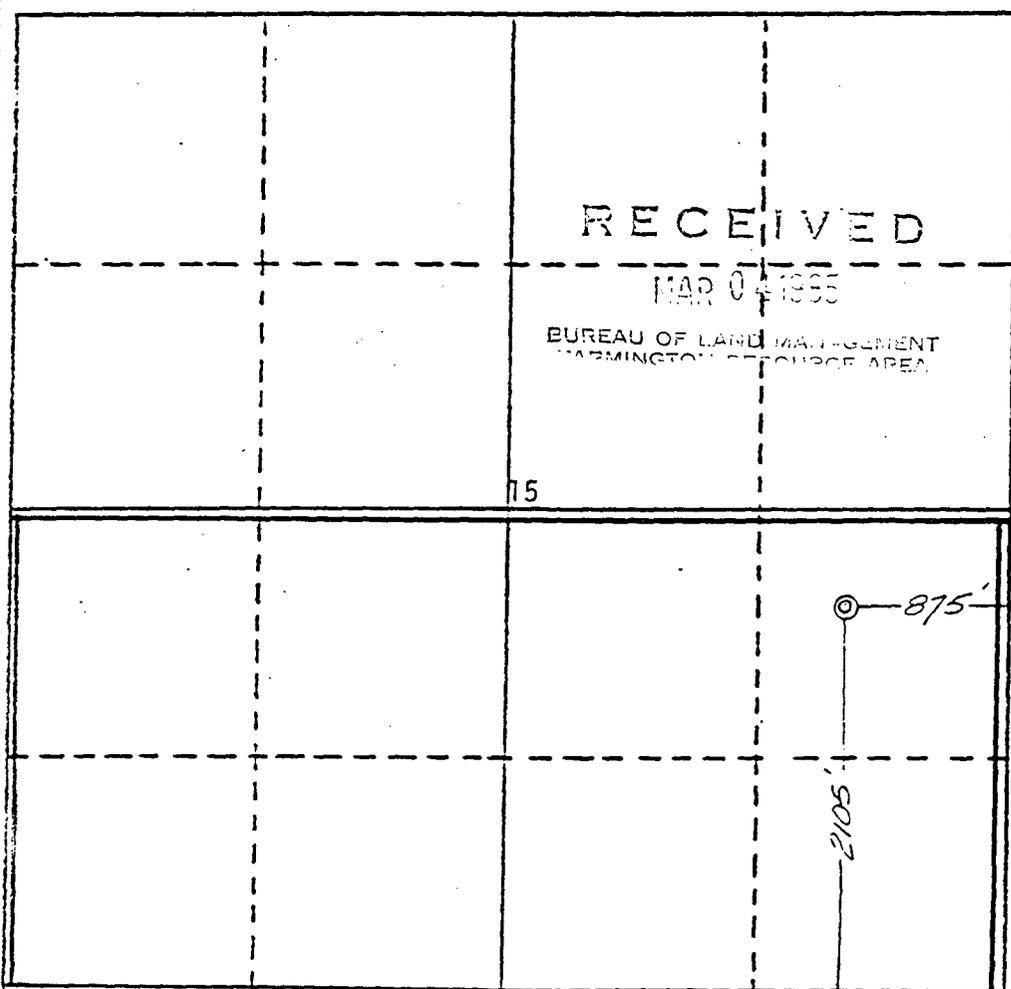
Operator AMOCO PRODUCTION COMPANY		Lease TRIGG FED GAS COM B			Well No. 1
Unit Letter I	Section 15	Township 29 N	Range 9 W	County San Juan	
Actual Postage Location of Well: 2105 feet from the SOUTH line and 875 feet from the EAST line					
Ground Level Elev. 6483	Producing Formation Dakota		Pool Basin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

1. Outline the acreage dedicated to the subject well by colored pencil or 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 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  
WASHINGTON RESOURCE AREA

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

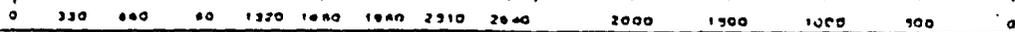
Date  
2-26-85

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*  
Gary D. Vann

Certificate No.  
7016



**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

Form C-102  
Revised October 18, 1994  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

**OIL CONSERVATION DIVISION**  
2040 South Pacheco  
Santa Fe, New Mexico 87505

**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**

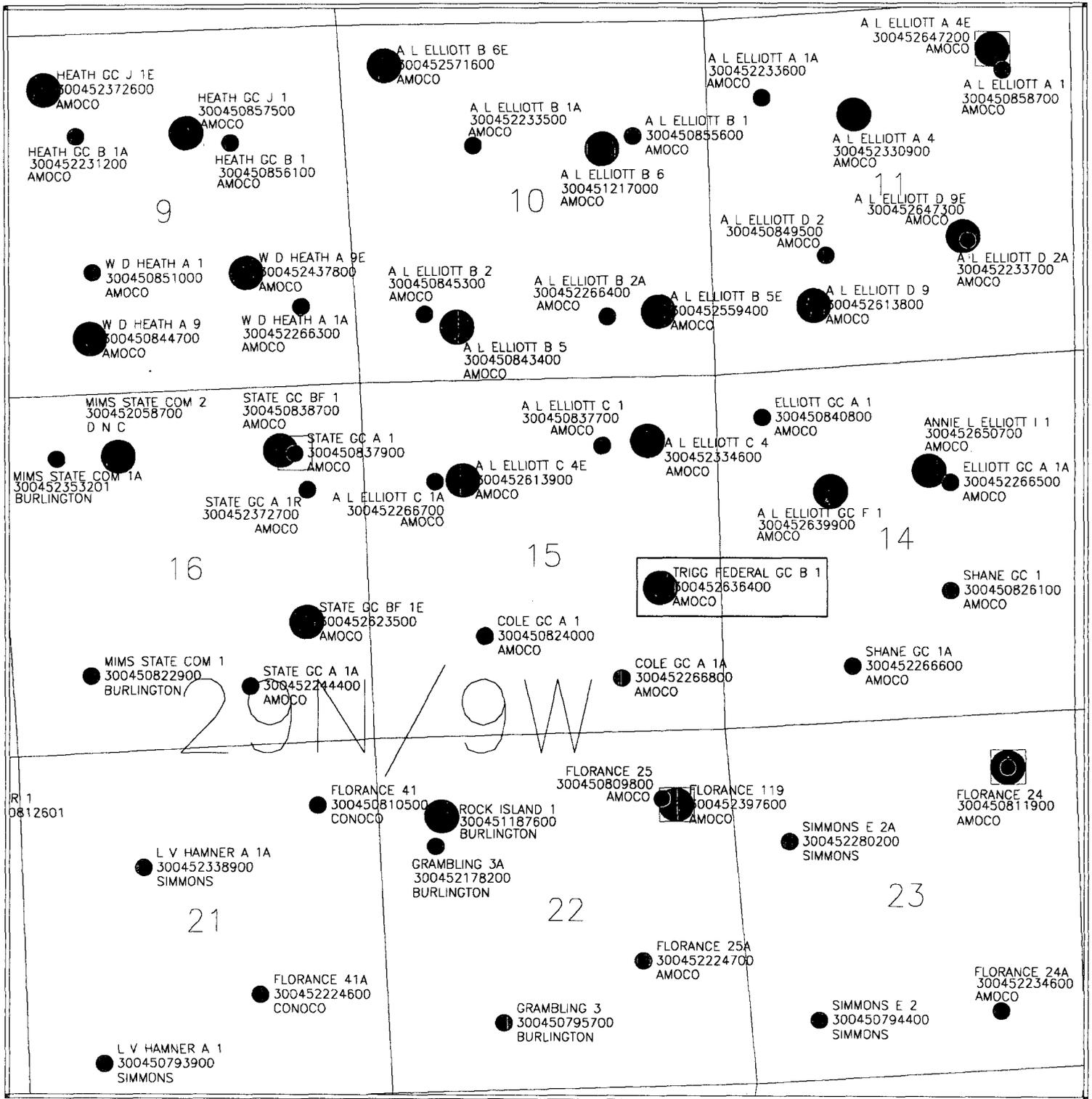
UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West Line	County
UNIT I	15	29N	9W		2105	SOUTH	875	EAST	San Juan

**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**

	<b>OPERATOR CERTIFICATION</b>
	I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief
	 Signature Mary Corley
	Printed Name Sr. Business Analyst Position Date 02/02/1999
	<b>SURVEY CERTIFICATION</b>
	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.
	<div style="border: 1px solid black; padding: 5px; display: inline-block;">December 26, 1984</div> Date of Survey
	Signature & Seal of Professional Surveyor <div style="border: 1px solid black; padding: 5px; display: inline-block; margin-top: 10px;">Gary D. Vann #7016</div> Certificate No.



AMOCO PRODUCTION COMPANY		
TRIGG FEDERAL GC B #1 COMMINGLE PACKAGE DAKOTA/MESAVERDE NINE SECTION PLAT 115-29N-09W		
ALC		12/18/98
	Scale: 1:24,51.09	

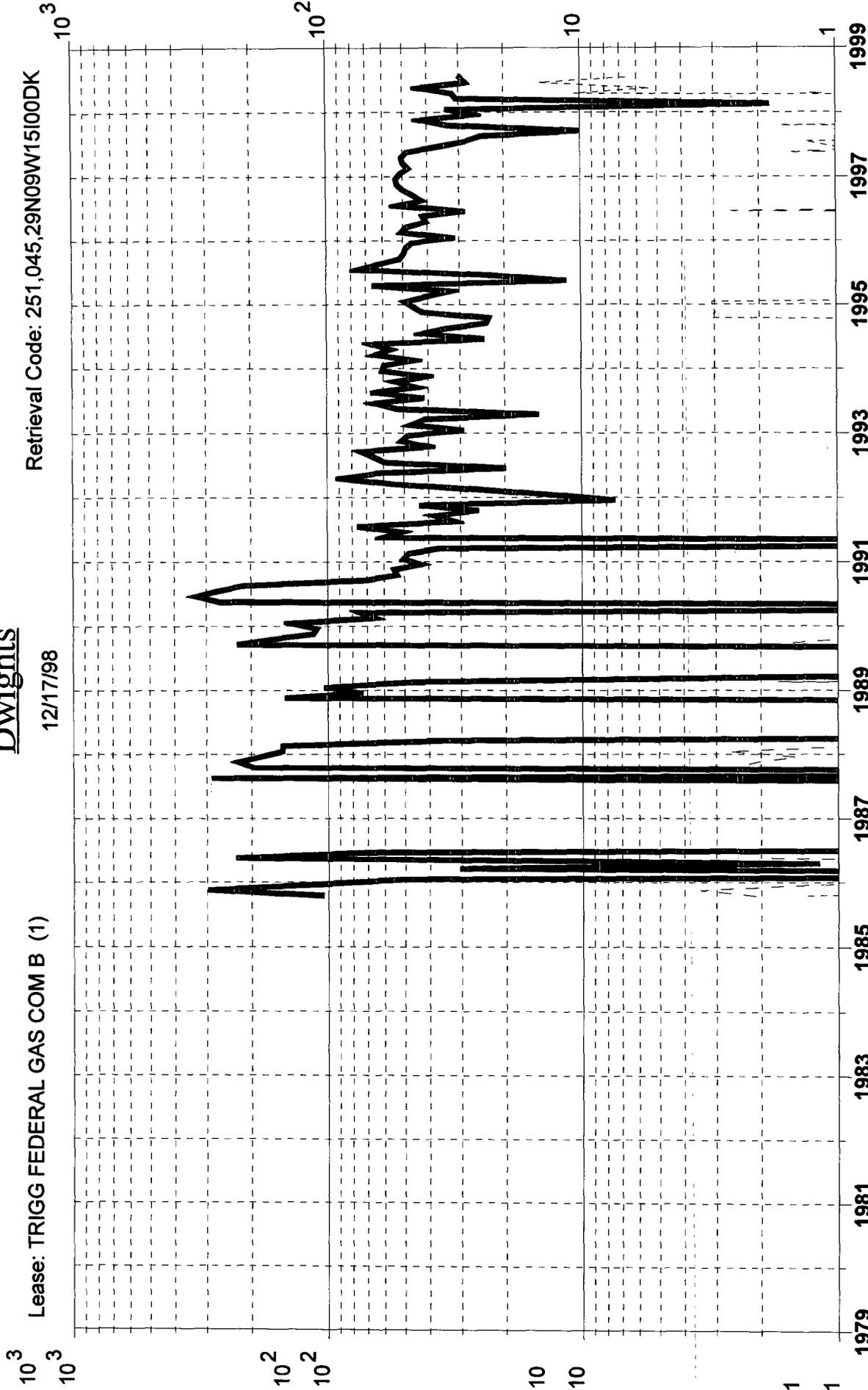
LEGEND	
●	ACTIVE DAKOTA WELL
●	INACTIVE DAKOTA WELL
●	ACTIVE MESAVERDE WELL
●	INACTIVE MESAVERDE WELL

# Dwights

Lease: TRIGG FEDERAL GAS COM B (1)

Retrieval Code: 251,045,29N09W15I00DK

12/17/98



Oil (bb/day)

Water (bb/day)

Gas (mcf/day)

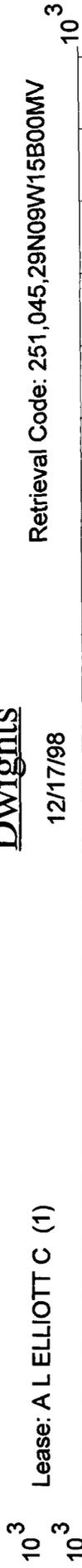
County: SAN JUAN, NM	F.P. Date: 10/85
API #: 30-045-2636400	Oil Cum: 1688 bbl
Reservoir: DAKOTA	Gas Cum: 260.4 mmcf
Operator: AMOCO PRODUCTION CO	Location: 15I 29N 9W

# Dwights

Lease: A L ELLIOTT C (1)

12/17/98

Retrieval Code: 251,045,29N09W15B00MV



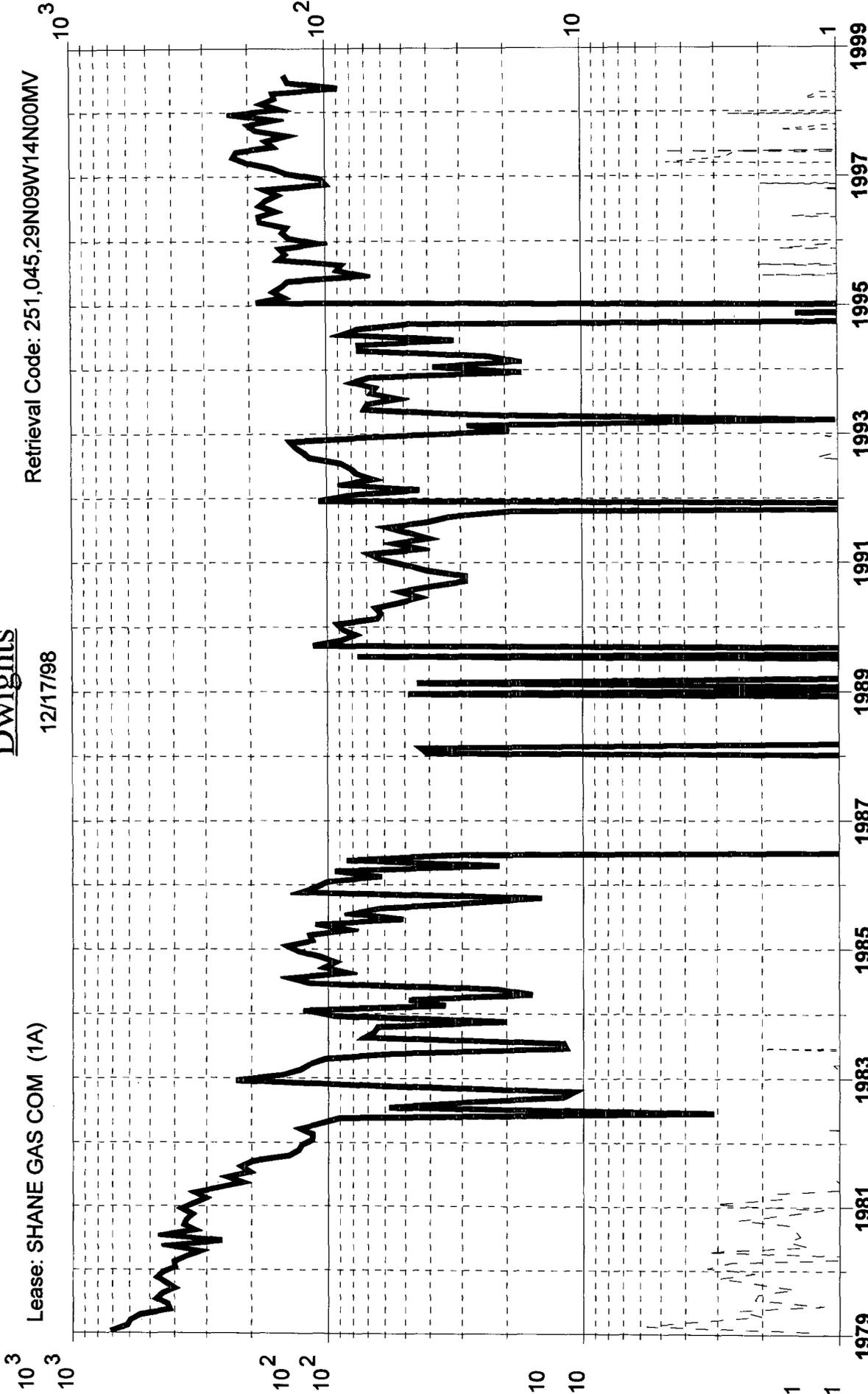
Oil (bbbl/day)	---	F.P. Date: 06/57
Water (bbbl/day)	---	Oil Cum: 8894 bbl
		Gas Cum: 2806 mmcf
		Location: 15B 29N 9W
		County: SAN JUAN, NM
		API #: 30-045-0837700
		Reservoir: MESAVERDE
		Operator: AMOCO PRODUCTION CO

# Dwights

12/17/98

Lease: SHANE GAS COM (1A)

Retrieval Code: 251,045,29N09W14N00MV



Oil (bb/day)

Water (bb/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

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

$$7462 \times 0.08 = \underline{597}$$

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

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

$$7462 \times 0.08 = \underline{597}$$

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

WELL NAME: A L ELLIOTT C #1

FORMATION: MV

SURFACE PRESS: 202

PERFS TOP: 4208

BOTTOM: 4883

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

$$4545.5 \times 0.07 = \underline{318}$$

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

Initial Bottom Hole Pressure 1169

WELL NAME: SHANE GC #1A

FORMATION: MV

SURFACE PRESS: 251

PERFS TOP: 4020

BOTTOM: 4824

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

$$4422 \times 0.07 = \underline{310}$$

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

Initial Bottom Hole Pressure= 817

WELL NAME: TRIGG FEDERAL GC B #1

FORMATION: MV

Initial Bottom Hole Pressure: ( 1169 + 817 ) / 2 ≈ 993 est.

Bottom Hole Pressure: ( 520 + 561 ) / 2 ≈ 540 est.

ELLIOTT C #1/SHANE GC #1A BTU: ( 1250 + 1259.6 ) / 2 ≈ 1255 est.

ELLIOTT C #1/SHANE GC #1A bbls ( 1 + 6 ) / 2 ≈ 4 est.

ELLIOTT C #1/SHANE GC #1A mcf ( 11031 + 30755 ) / 2 ≈ 20893 est.

**ALLOCATION**

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