

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

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

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

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

OIL CONSERVATION DIVISION

APPLICATION FOR DOWNHOLE COMMINGLING

APPROVAL PROCESS:
Administrative ☐ Hearing ☐
EXISTING WELLBORE
☒ YES ☐ NO

Amoco Production Company

PO Box 3092 Houston TX 77253-0092

Operator: Trigg Federal GC B #1 Address: I 15-29N-09W Santa Juan
Lease: Well No: Unit Ltr. - Sec Twp - Rge: 6

OGRID NO: 000778 Property Code: 001172 API NO: 300452636400 Spacing Unit Lease: (check 1 or more)
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 71599
2. Top and Bottom of Pay Section (Perforations)	4657'-5340' (est.)	7376'-5340' (est.)	7376'-5340' (est.)
3. Type of production (Oil or Gas)	Gas	Gas	Gas
4. Method of Production (Flowing or Artificial Lift)	Flowing	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.) b. (Original) 993 psi (est.)	a. b.	a. 8 psi b. 1 psi (est.)
6. Oil Gravity (° API) or Gas BTU Content	1255 btu (est.)	1219.2	1219.2
7. Producing or Shut-In?	New Zone	Produced	Produced
Production Marginal? (yes or no)	Yes	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:	14/98 mcf cpd
8. Fixed Percentage Allocation Formula -% for each zone	Oil: 8 % Gas: 78 %	Oil: % Gas: %	Oil: 9 % 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-flow 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. NMOC 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) 5450

1. The first part of the document is a list of the names of the members of the committee who have been appointed to the various sub-committees. The names are listed in alphabetical order, and the sub-committees are listed in the order in which they were appointed.

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 Footage Location of Well: 2105 feet from the SOUTH line and 875 feet from the EAST				
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 plan 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. (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

11 MAR 0 1985

BUREAU OF LAND MANAGEMENT

SAN JUAN COUNTY 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 Signature By

B. D. Sh

Name

B. D. Sh

Position

Adm. Supervisor

Company

Amoco Production Company

Date

2-26-8

I hereby certify that the location shown on this plan is plotted from field notes and actual measurements 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 1, 1984

Registered Professional

Engineer

and/or Land Surveyor

Gary D. Vain

Certificate No.

7016

0 330 660 990 1320 1650 1980 2310 2640 2970 3300 3630 3960 4290 4620 4950 5280 5610 5940 6270 6600 6930 7260 7590 7920 8250 8580 8910 9240 9570 9900

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
Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

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

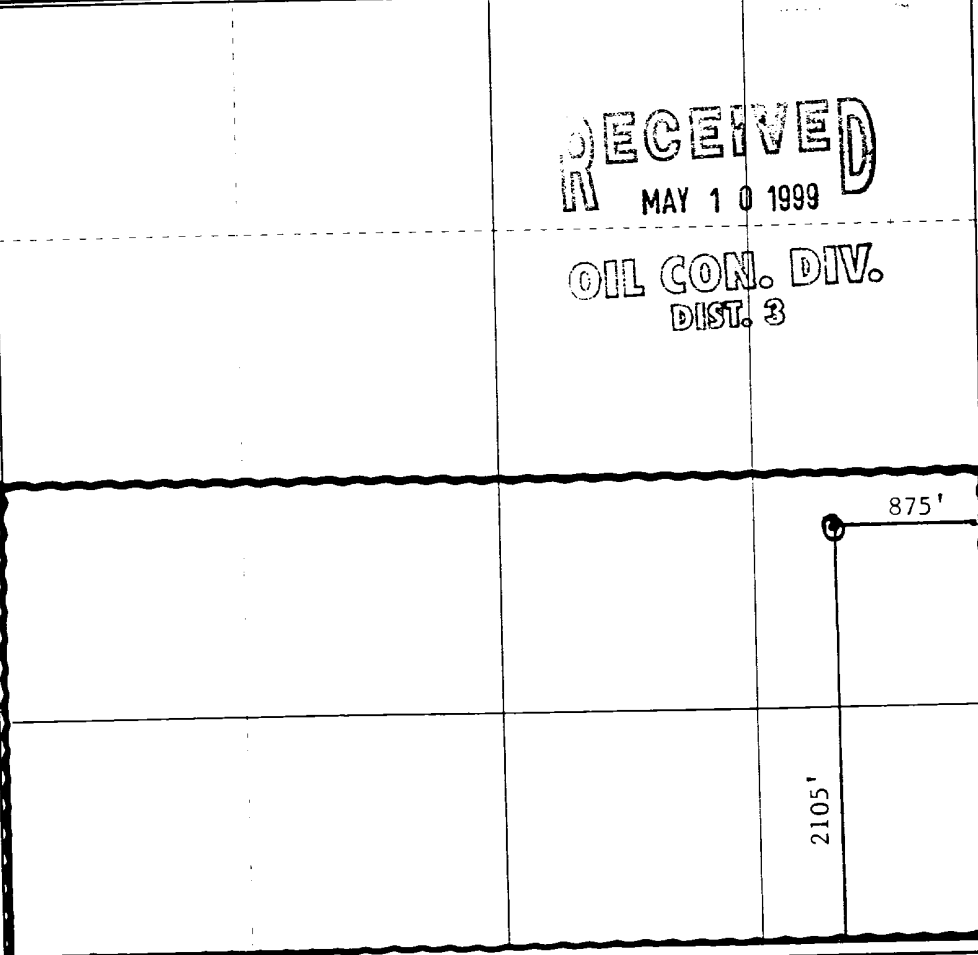
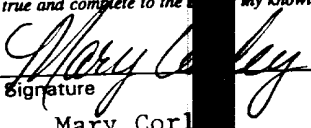
Surface Location

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
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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 hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  Signature Mary Corl Printed Name Sr. Business Analyst Position Date 02/1999
	SURVEY CERTIFICATION I hereby certify that the well location 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. December 6, 1984 Date of Survey Signature & Seal of Professional Surveyor Gary D. V... #7016 Certificate No.

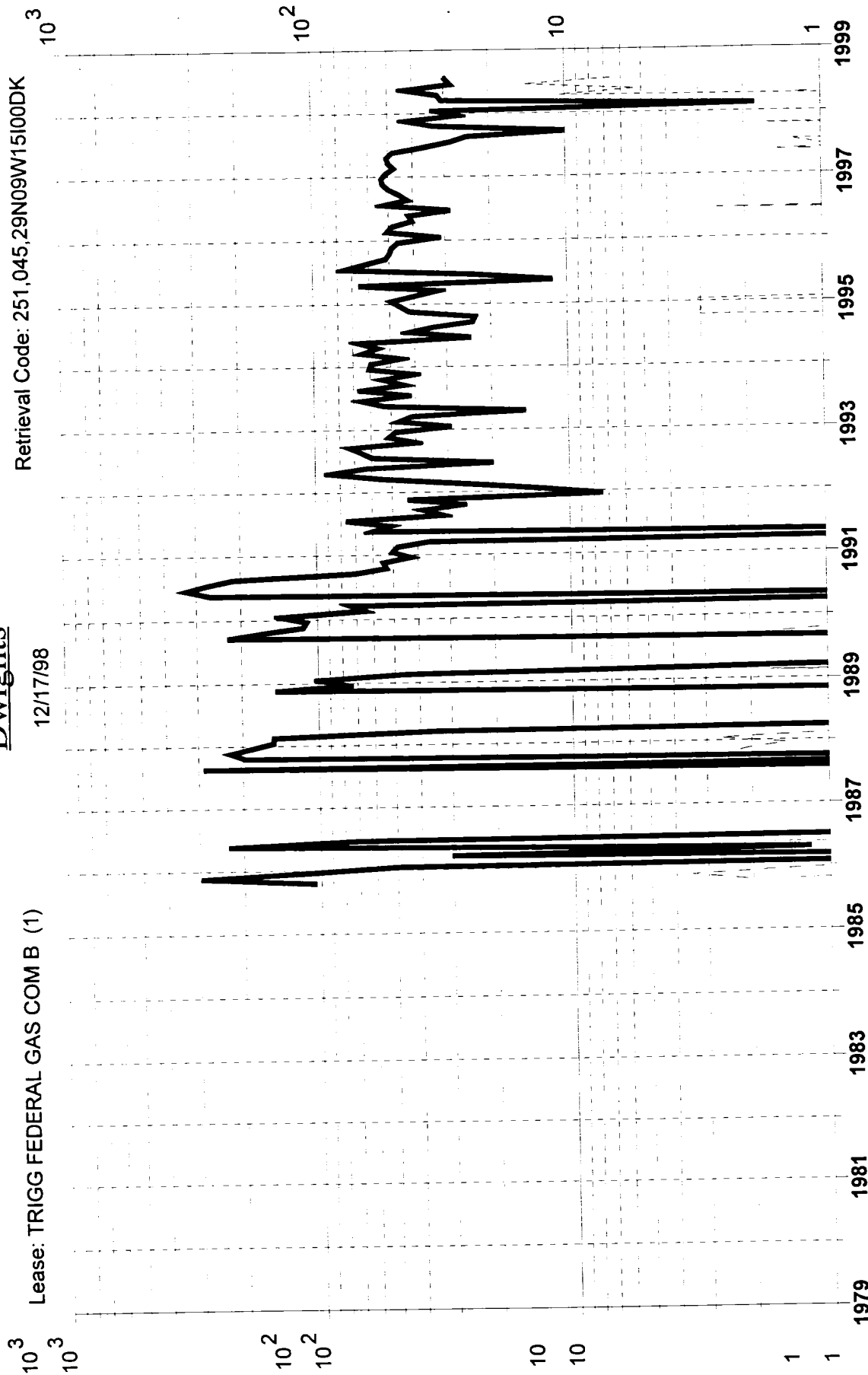
LEGEND

- ACTIVE DAKOTA WELL
- INACTIVE DAKOTA WELL
- ACTIVE MESASVERDE WELL
- INACTIVE MESASVERDE WELL

Dwights

Lease: TRIGG FEDERAL GAS COM B (1)
Retrieval Code: 251,045,29N09W15100DK

12/17/98



Water (bbl/day)

API #: 30-045-2636400

Oil Cum: 1688 bbl

Reservoir: DAKOTA

Gas Cum: 260.4 mmcf

Operator: AMOCO PRODUCTION CO

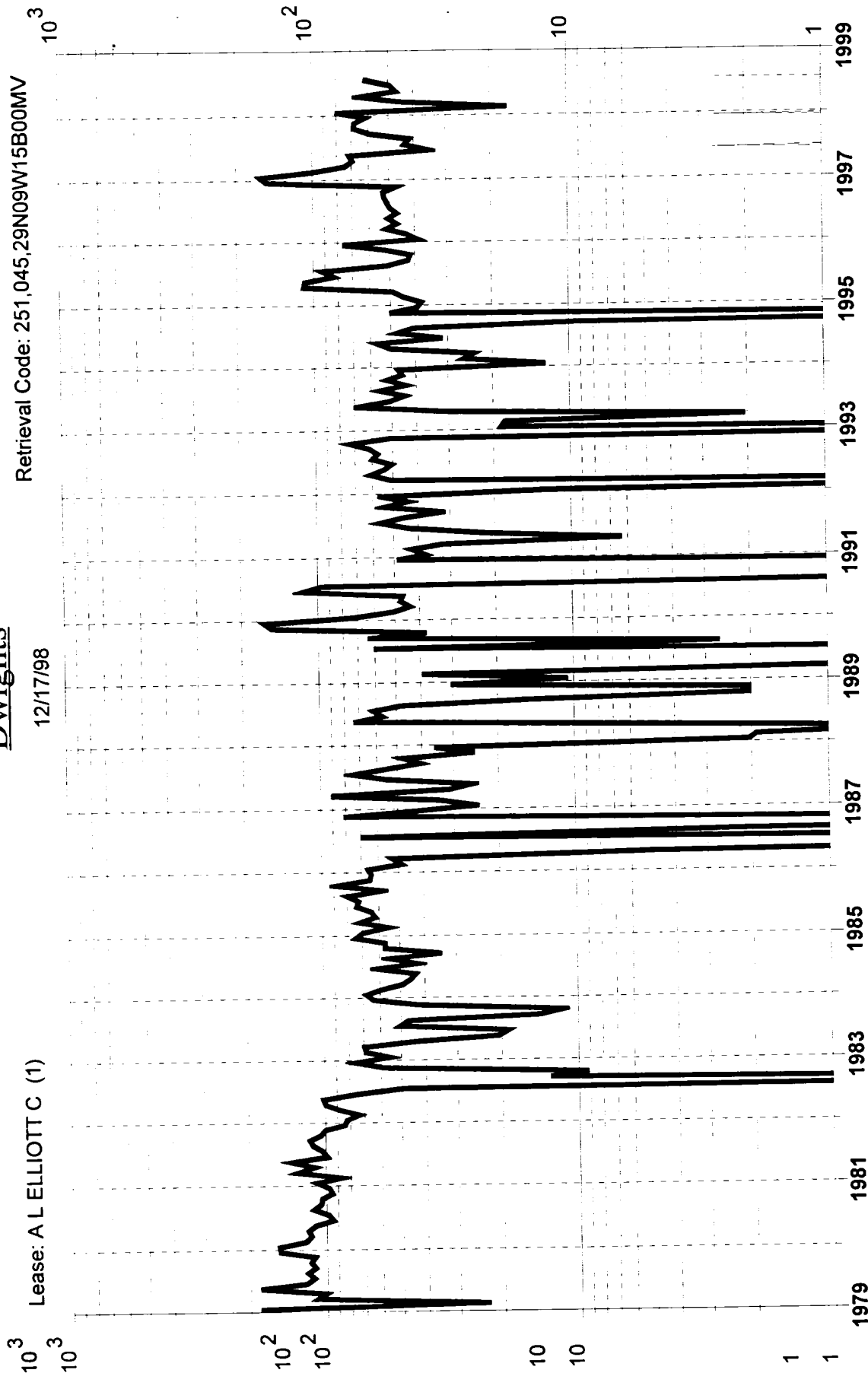
Location: 151 29N 9W

Dwights

Lease: A L ELLIOTT C (1)

12/17/98

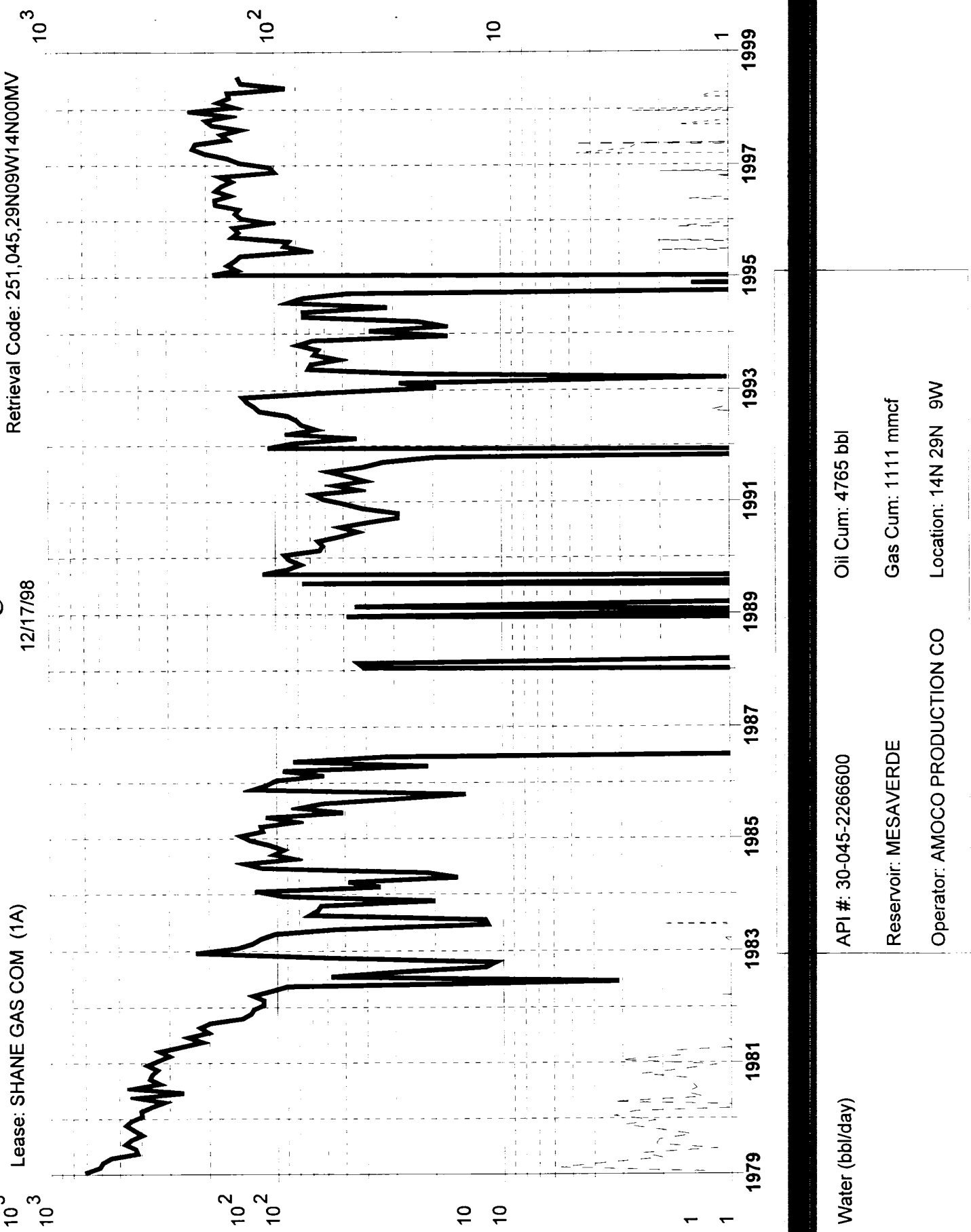
Retrieval Code: 251_045_29N09W15B00MV



Water (bbl/day)

API #: 30-045-0837700	Oil Cum: 8894 bbl
Reservoir: MESAVERDE	Gas Cum: 2806 mmcf
Operator: AMOCO PRODUCTION CO	Location: 15B 29N 9W

Dwights



Water (bbl/day)

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

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

$$7462 \times 0.08 = 597$$

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

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

$$7462 \times 0.08 = 597$$

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

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

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

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

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

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

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

ALLOCATION

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

