



**Amoco Production Company**

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

May 6, 1999

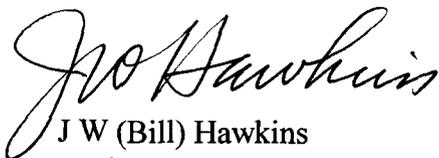
Ms. Lori Wrotenbery, Director  
New Mexico Oil Conservation Division  
2040 S. Pacheco Street  
P. O. Box 6429  
Santa Fe, NM 87505

**Application for Exception to Rule 303-A- Downhole Commingling  
Roelofs B #3A Well  
Unit D Section 15-T29N-R08W  
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

Taurus Exploration USA  
2198 Bloomfield Hwy  
Farmington NM 87404

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 Pictured Cliffs.

**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 <b>Roelofs B</b>	Well No. <b>3A</b>	Address <b>D-15-29N-08W</b>	County <b>San Juan</b>
Lease	Unit Ltr. - Sec Twp - Rge		

OGRID NO. 000778 Property Code 000993 API NO. 300452236500 Federal  State  (and/or) Fee

Spacing Unit Lease Types: (check 1 or more)

The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zone	Lower Zone
1. Pool Name and Pool Code	Blanco Pictured Cliffs 72359		Blanco Mesaverde 72319
2. Top and Bottom of Pay Section (Perforations)	3008'-3052'		4629'-5559'
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) 379 psi (est)	a.	a. 619 psi (est.)
	b. (Original) 725 psi	b.	b. 842 psi
6. Oil Gravity (° API) or Gas BTU Content	1188.8 btu		1000 btu
7. Producing or Shut-In?	Producing		Shut In
Production Marginal? (yes or no)	Yes		Yes
<ul style="list-style-type: none"> <li>If Shut-In, give data and oil/gas/water rates of last production</li> </ul> <small>Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data</small>	Date: Rates:	Date: Rates:	Date: 11/94 43 mcf Rates: 06/97 37 bbls 01/95 6 bopd
	Date: 1/4/99 Rates: 44 mcf/d 0 bcpd 0 bwpd	Date: Rates:	Date: Rates:
<ul style="list-style-type: none"> <li>If Producing, give date and oil/gas/water rates of recent test (within 60 days)</li> </ul>	Date: Rates:	Date: Rates:	Date: Rates:
8. Fixed Percentage Allocation Formula -% for each zone	Oil: 0 % Gas 21 %	Oil: % Gas %	Oil: 100 % Gas 79 %

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-078415

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

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

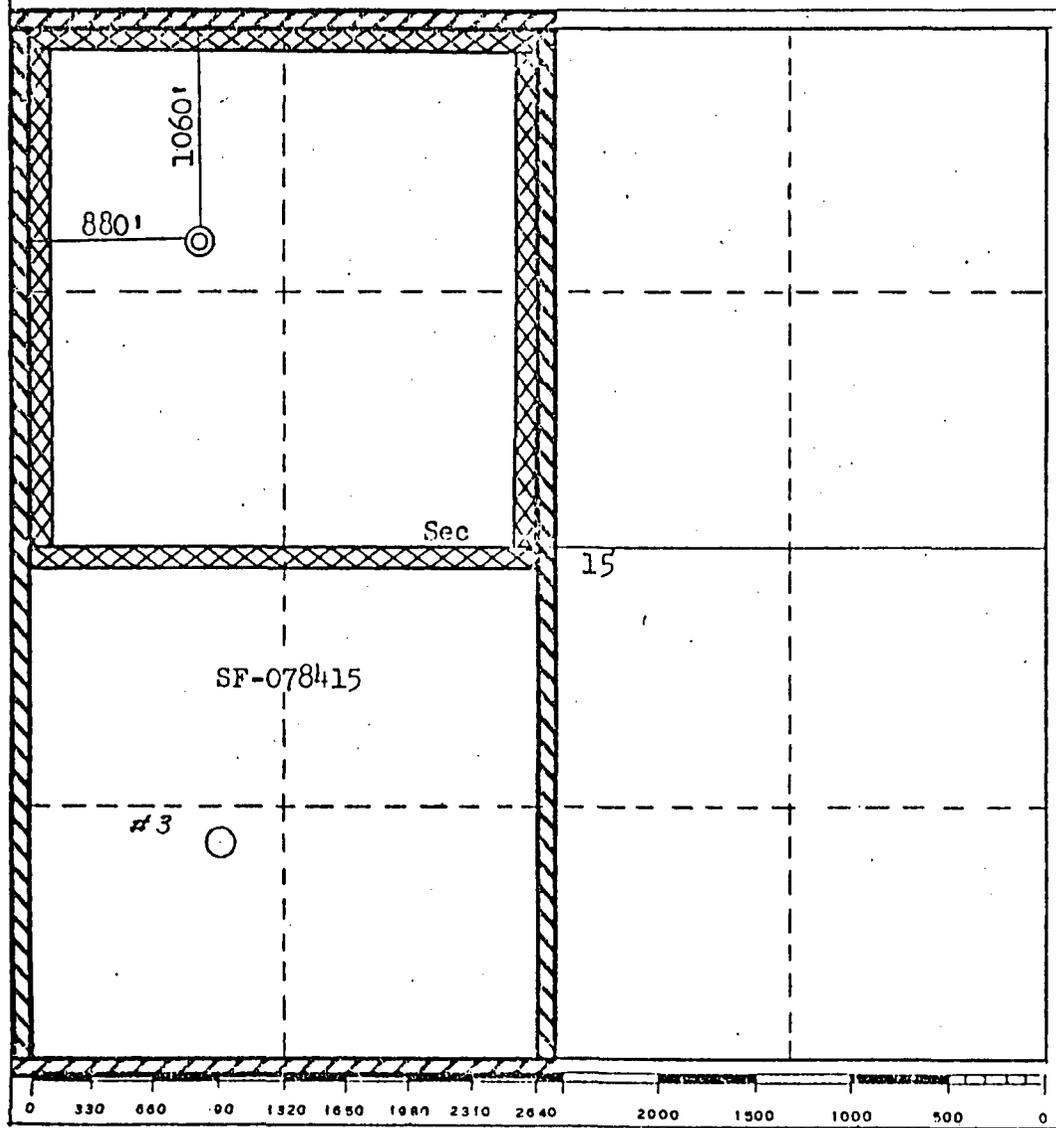
Operator <b>El Paso Natural Gas Company</b>			Lease <b>Reeloffs (SF-078415)</b>		Well No. <b>3A</b>
Unit Letter <b>D</b>	Section <b>15</b>	Township <b>29N</b>	Range <b>8W</b>	County <b>San Juan</b>	
Actual Footage Location of Well: <b>1060</b> feet from the <b>North</b> line and <b>880</b> feet from the <b>West</b> line					
Ground Level Elev. <b>6308</b>	Producing Formation <b>PICTURED CLIFFS&amp;MESAVERDE</b>	Pool <b>BLANCO PICTURED CLIFFS EXT. BLANCO MESA VERDE</b>		Dedicated Acreage: <b>160.0 &amp; 320.0</b> 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 \_\_\_\_\_

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 Commission.



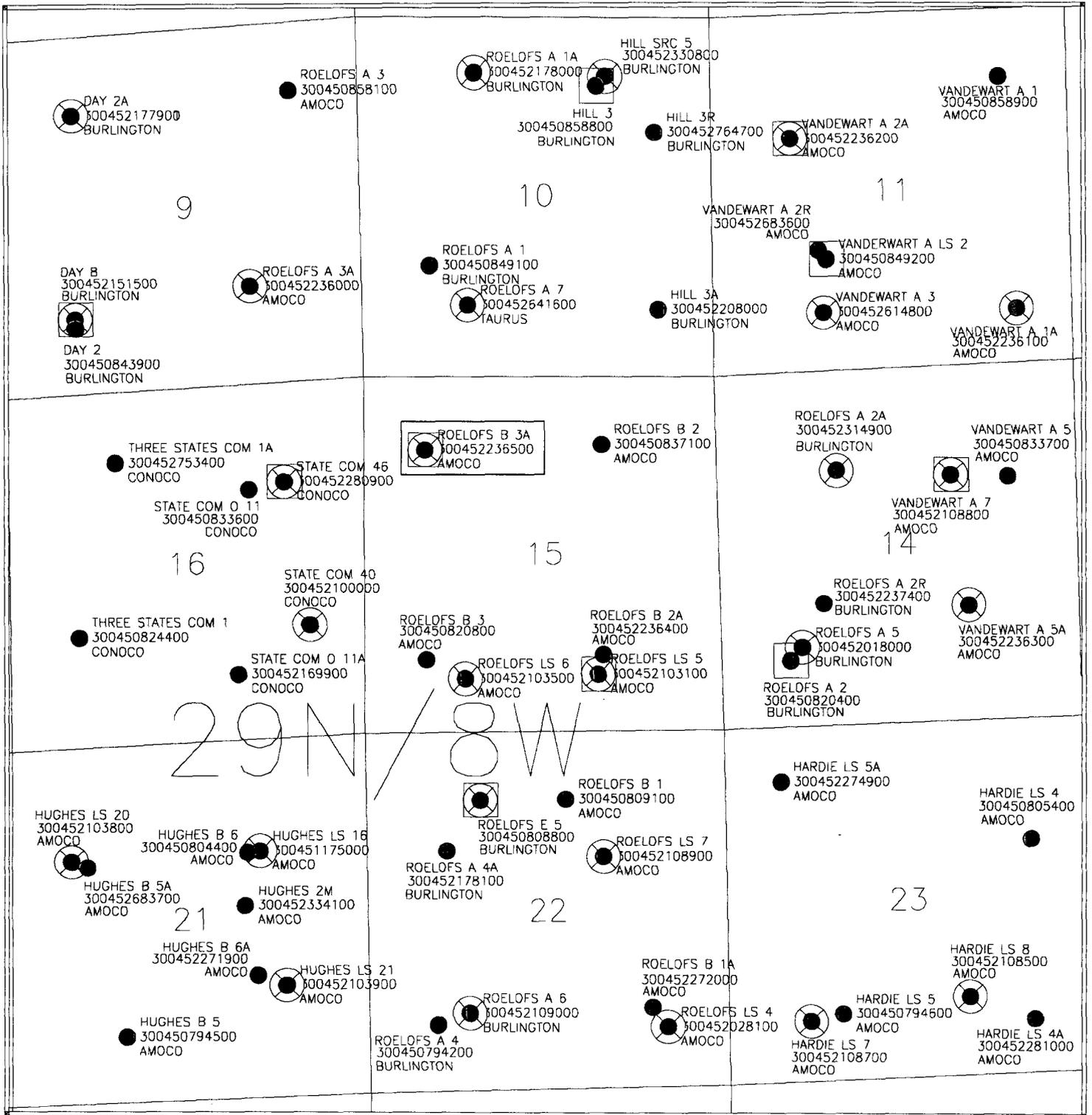
**CERTIFICATION**

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

*A. G. Suess*  
 Name  
 Drilling Clerk  
 Position  
 El Paso Natural Gas Company  
 Company  
 April 11, 1977  
 Date

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  
 February 22, 1977  
 Registered Professional Engineer and/or Land Surveyor  
*Fred B. Kopp, Jr.*  
 Certificate No. 3950



AMOCO PRODUCTION COMPANY		
ROELOFS B #3A - COMMINGLE PICTURED CLIFFS/MESAVERDE 9 SECTION PLA D15-29N-08W		
ALC		1/5/99
Scale 1:24853.81		

LEGEND	
●	MESAVERDE ACTIVE WELLS
○	MESAVERDE INACTIVE WELLS
⊛	PICTURED CLIFFS ACTIVE WELLS
⊠	PICTURED CLIFFS INACTIVE WELLS

RoelofsB3A

DK	0.08	PC	0.04
MV	0.07	FT	0.04
		CK	0.04

WELL NAME: ROELOFS B 3A  
 FORMATION: PC

SURFACE PRESS: 257  
 PERFS TOP: 3008  
 BOTTOM: 3052

$$( 3008 + 3052 ) / 2 = 3030 \text{ Mid Perf}$$

$$3030 \times 0.04 = 121$$

$$121.2 + 257 = \boxed{379} \text{ Bottom Hole Pressure}$$

Initial Bottom Hole Pressure= 725

WELL NAME: ROELOFS B #2  
 FORMATION: MV

SURFACE PRESS: 279  
 PERFS TOP: 4926  
 BOTTOM: 5860

$$( 4926 + 5860 ) / 2 = 5393 \text{ Mid Perf}$$

$$5393 \times 0.07 = 378$$

$$377.51 + 279 = \boxed{657} \text{ Bottom Hole Pressure}$$

WELL NAME: ROELOFS B #3  
 FORMATION: MV

SURFACE PRESS: 230  
 PERFS TOP: 4655  
 BOTTOM: 5395

$$( 4655 + 5395 ) / 2 = 5025 \text{ Mid Perf}$$

$$5025 \times 0.07 = 352$$

$$351.75 + 230 = \boxed{582} \text{ Bottom Hole Pressure}$$

WELL NAME: ROELOFS B 3A  
 FORMATION: MV

Initial Bottom Hole Pressure: = 842

Bottom Hole Pressure: ( 657 + 582 ) / 2 = 619 est.

ROELOFS B #2/ROELOFS B #3 bbls ( 134 + 153 ) / 2 = 144 est.

ROELOFS B #2/ROELOFS B #3 mcf ( 18475 + 36617 ) / 2 = 27546 est.

**ALLOCATION**

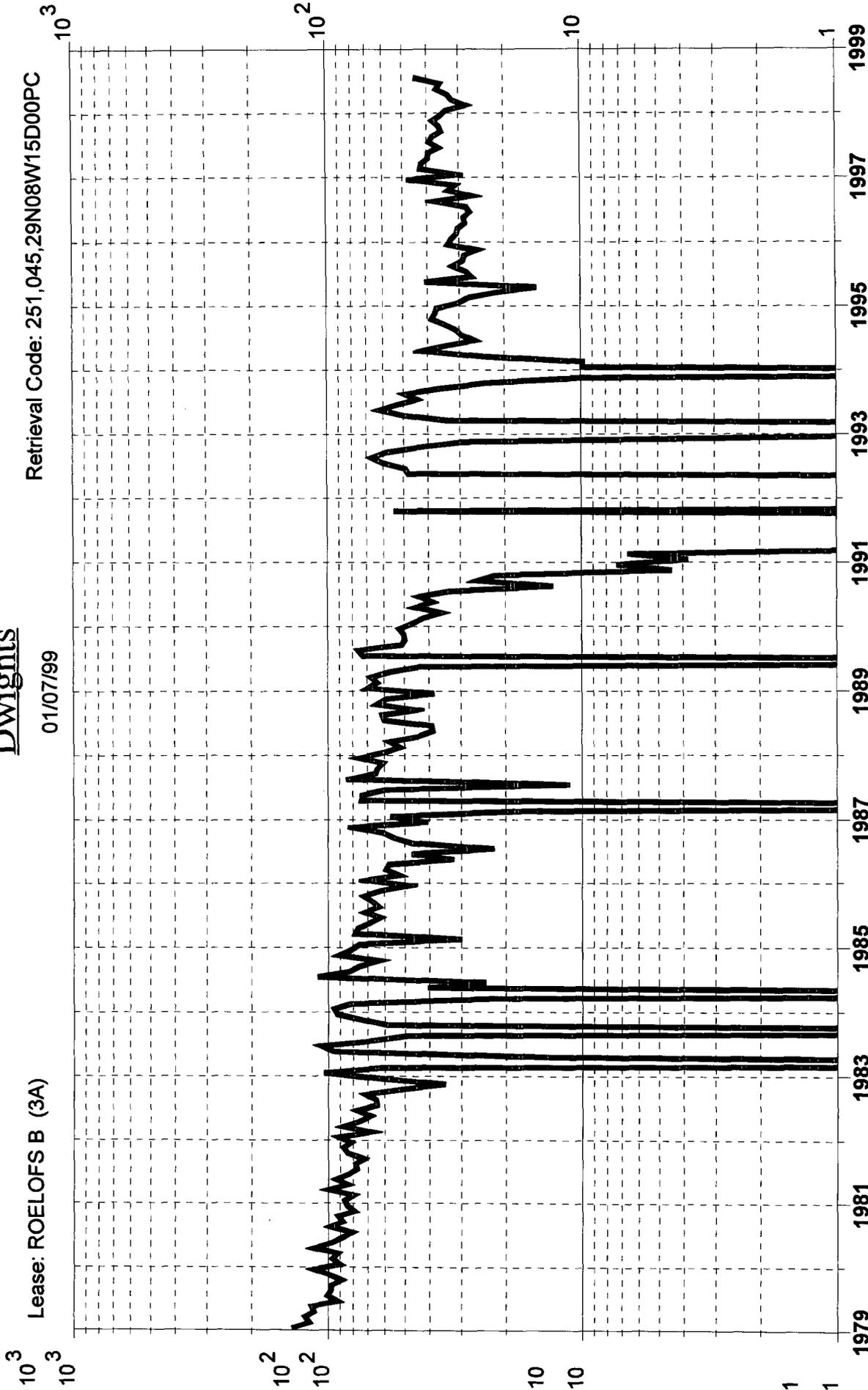
FM	BBL	%	GAS	%
PC	0	0%	7353	21%
MV	144	100%	27546	79%

# Dwights

Lease: ROELOFS B (3A)

Retrieval Code: 251,045,29N08W15D00PC

01/07/99



Oil (bbl/day)

Water (bbl/day)

Gas (mcf/day)

County: SAN JUAN, NIM

F.P. Date: 10/77

API #: 30-045-2236500

Oil Cum: 0 bbl

Reservoir: PICTURED CLIFFS

Gas Cum: 436.4 mmcf

Operator: AMOCO PRODUCTION CO

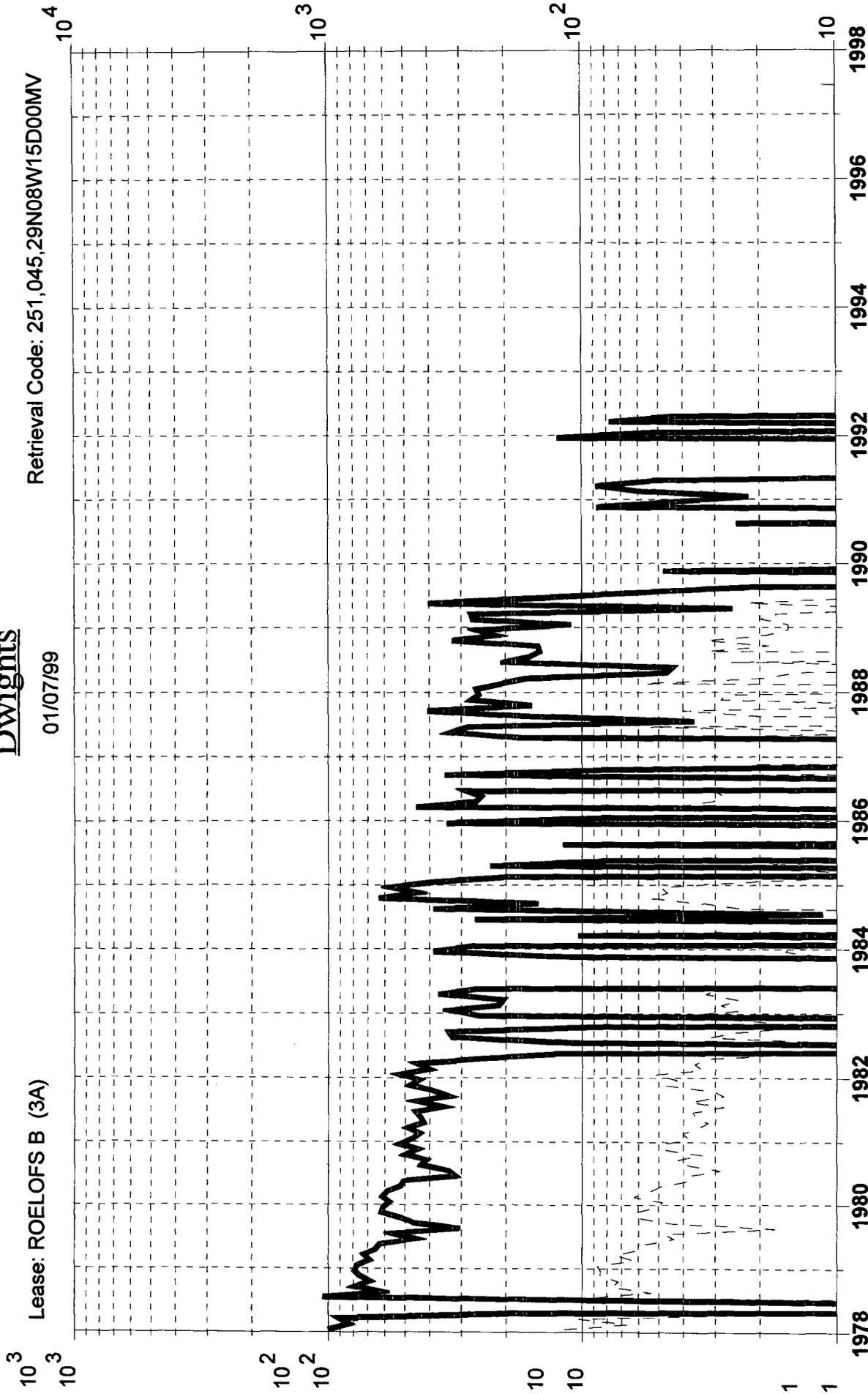
Location: 15D 29N 8W

# Dwights

Lease: ROELOFS B (3A)

Retrieval Code: 251,045,29N08W15D00MV

01/07/99



Oil (bbl/day)

Gas (mcf/day)

Water (bbl/day)

County: SAN JUAN, NM	F.P. Date: 10/77
API #: 30-045-2236500	Oil Cum: 12.95 mmbbl
Reservoir: MESAVERDE	Gas Cum: 1350 mmcf
Operator: AMOCO PRODUCTION CO	Location: 15D 29N 8W

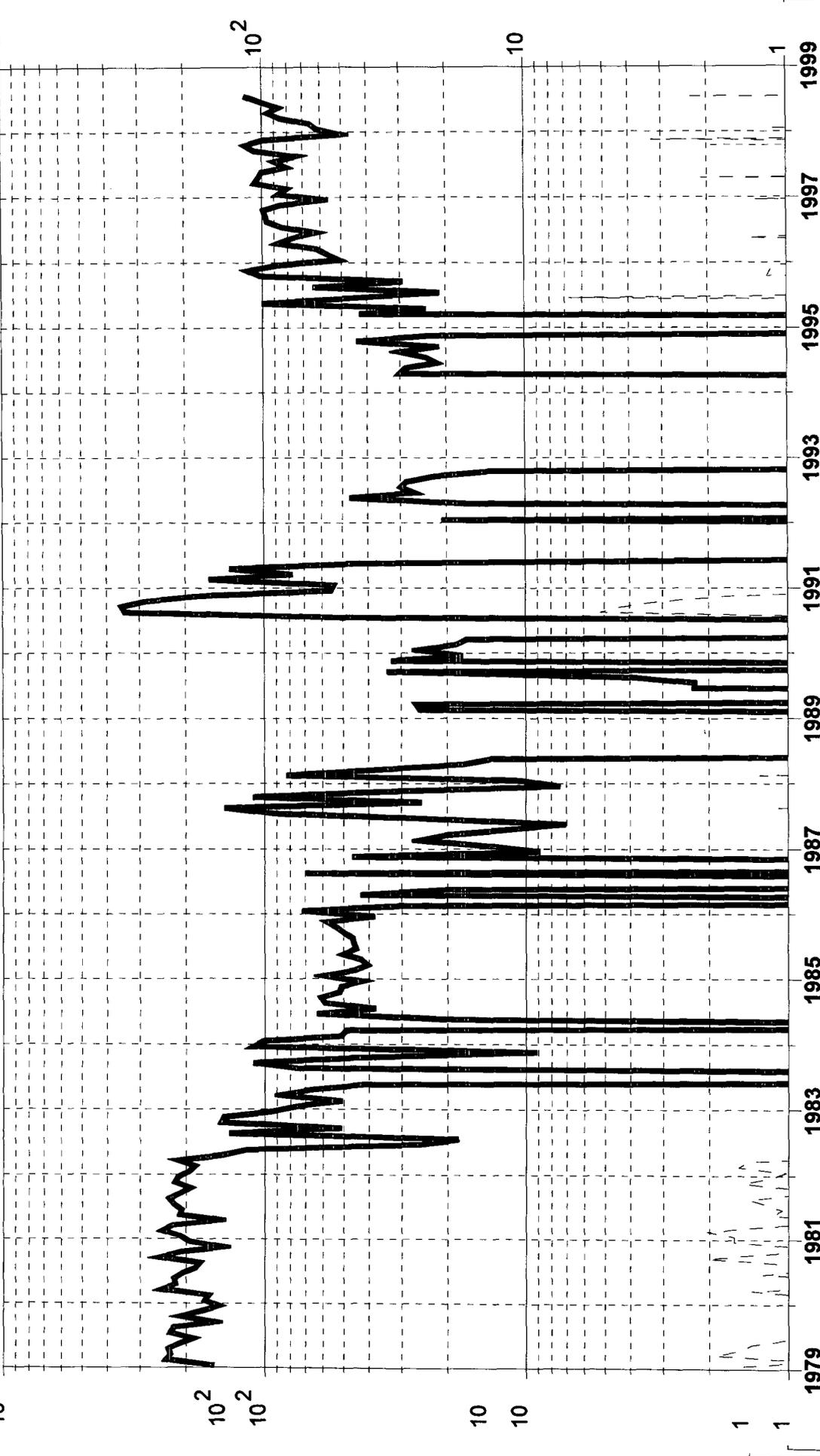
# Dwights

Lease: ROELOFS B (2)

Retrieval Code: 251,045,29N08W15B00MV

01/07/99

10<sup>3</sup> 10<sup>3</sup> 10<sup>2</sup> 10<sup>2</sup> 10 10 1 1 1979 1981 1983 1985 1987 1989 1991 1993 1995 1997 1999



Oil (bb/day)

Water (bb/day)

Gas (mcf/day)

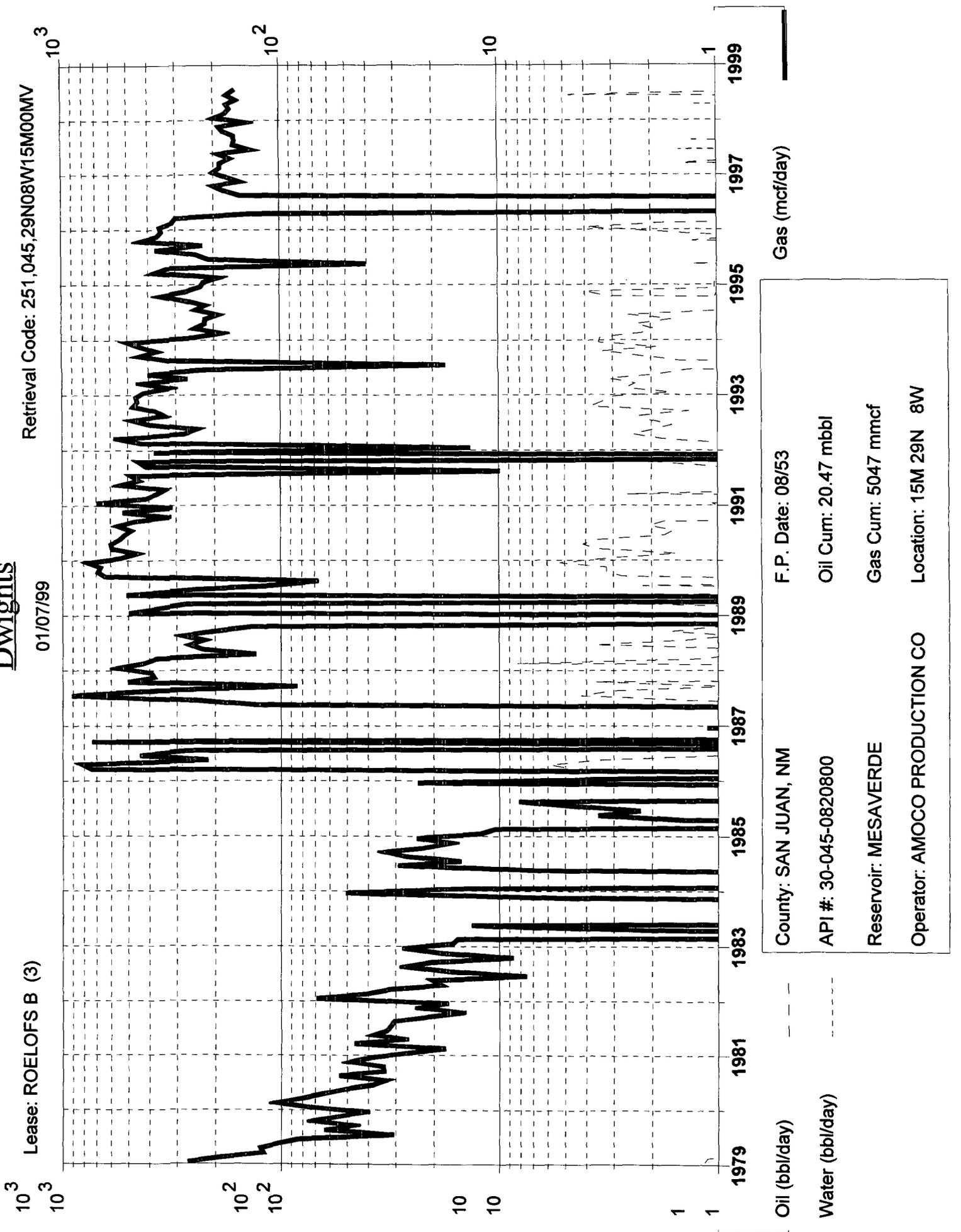
County: SAN JUAN, NM	F.P. Date: 10/54
API #: 30-045-0837100	Oil Cum: 15.92 mmbbl
Reservoir: MESAVERDE	Gas Cum: 3631 mmcf
Operator: AMOCO PRODUCTION CO	Location: 15B 29N 8W

# Dwights

Lease: ROELOFS B (3)

Retrieval Code: 251,045,29N08W15M00MV

01/07/99



County: SAN JUAN, NM	F.P. Date: 08/53
API #: 30-045-0820800	Oil Cum: 20.47 mbbbl
Reservoir: MESAVERDE	Gas Cum: 5047 mmcf
Operator: AMOCO PRODUCTION CO	Location: 15M 29N 8W

Oil (bbl/day) ---  
Water (bbl/day) - - - -  
Gas (mcf/day) ———