

DATE IN 5/11/99	SUSPENSE 6/1/99	ENGINEER DC	LOGGED KN	TYPE DHC
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

2348

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
 X _ 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] X _ Offset Operators, Leaseholders or Surface Owner
 [C] _ Application is One Which Requires Published Legal Notice
 [D] X _ 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

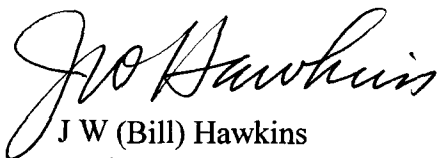
Ms. Lori Wrotenbery, Director
New Mexico Oil Conservation Division
2040 S. Pacheco Street
P. O. Box 6429
Santa Fe, NM 87505

**Application for Exception to Rule 303-A- Downhole Commingling
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.

Amoco Production Company		PO Box 3092 Houston TX 77253-3092	
Operator		Address	
Roelofs B	3A	D-15-29N-08W	San Juan
Lease	Well No.	Unit Ltr. - Sec Twp - Rge	County

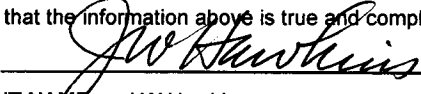
OGRID NO. 000778Property Code 000993API NO. 300452236500Federal ☒ State

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: Gas & Oil - Flowing: All Gas Zones: Estimated Current Measured Current 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
• 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: Rates:	Date: Rates:	Date: 11/94 43 mcf Rates: 06/97 37 bbls 01/95 6 bopd
	1/4/99 Date: 44 mcf Rates: 0 bcpd 0 bwpd	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 

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.

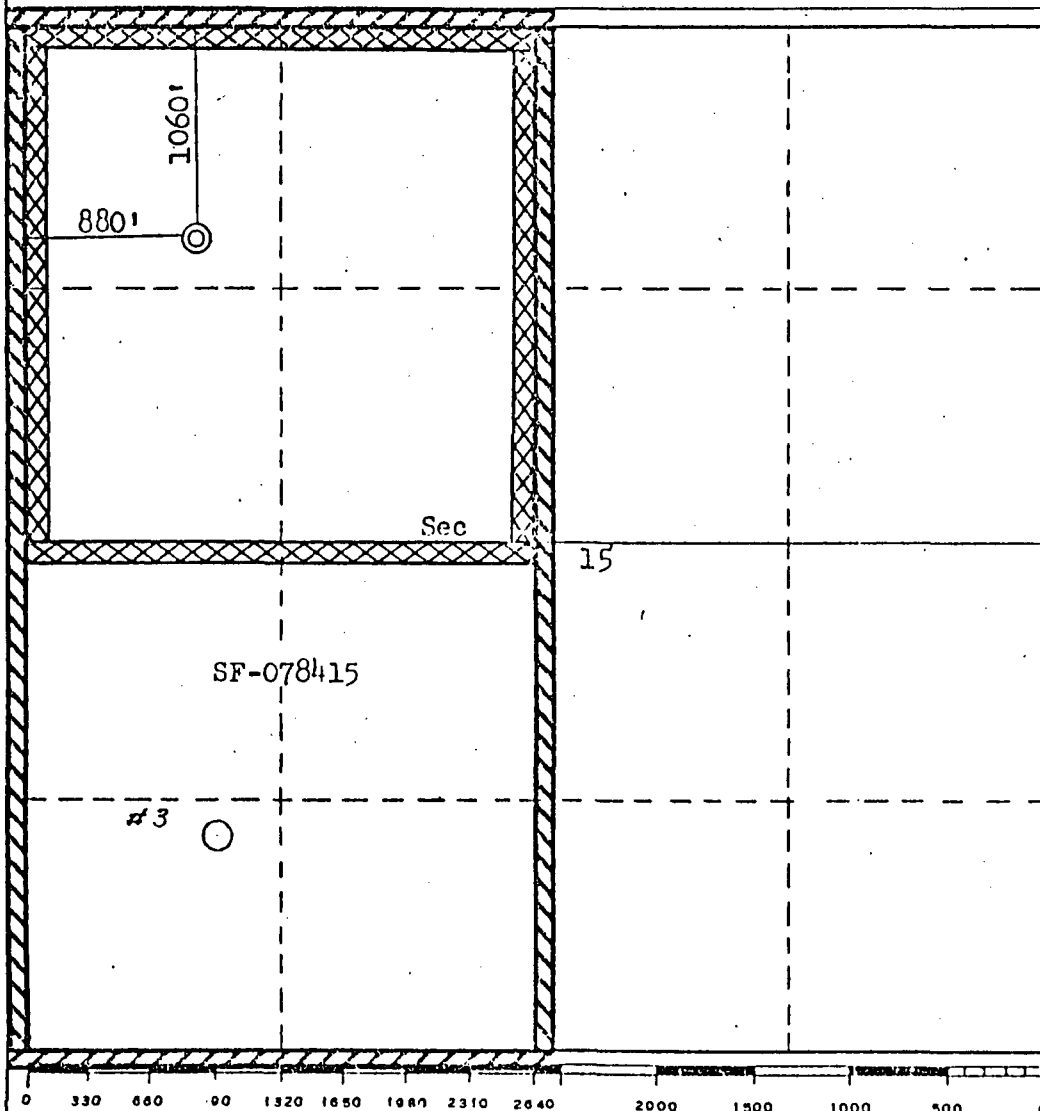
Operator El Paso Natural Gas Company			Lease Reeloffs (SF-078415)		Well No. 3A
Unit Letter D	Section 15	Township 29N	Range 8W	County San Juan	
Actual Footage Location of Well: 1060 feet from the North line and 880 feet from the West line					
Ground Level Elev. 6308	Producing Formation PICTURED CLIFFS&MESAVERDE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

Name
Drilling Clerk

Position
El Paso Natural Gas Company
Company

Date
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.

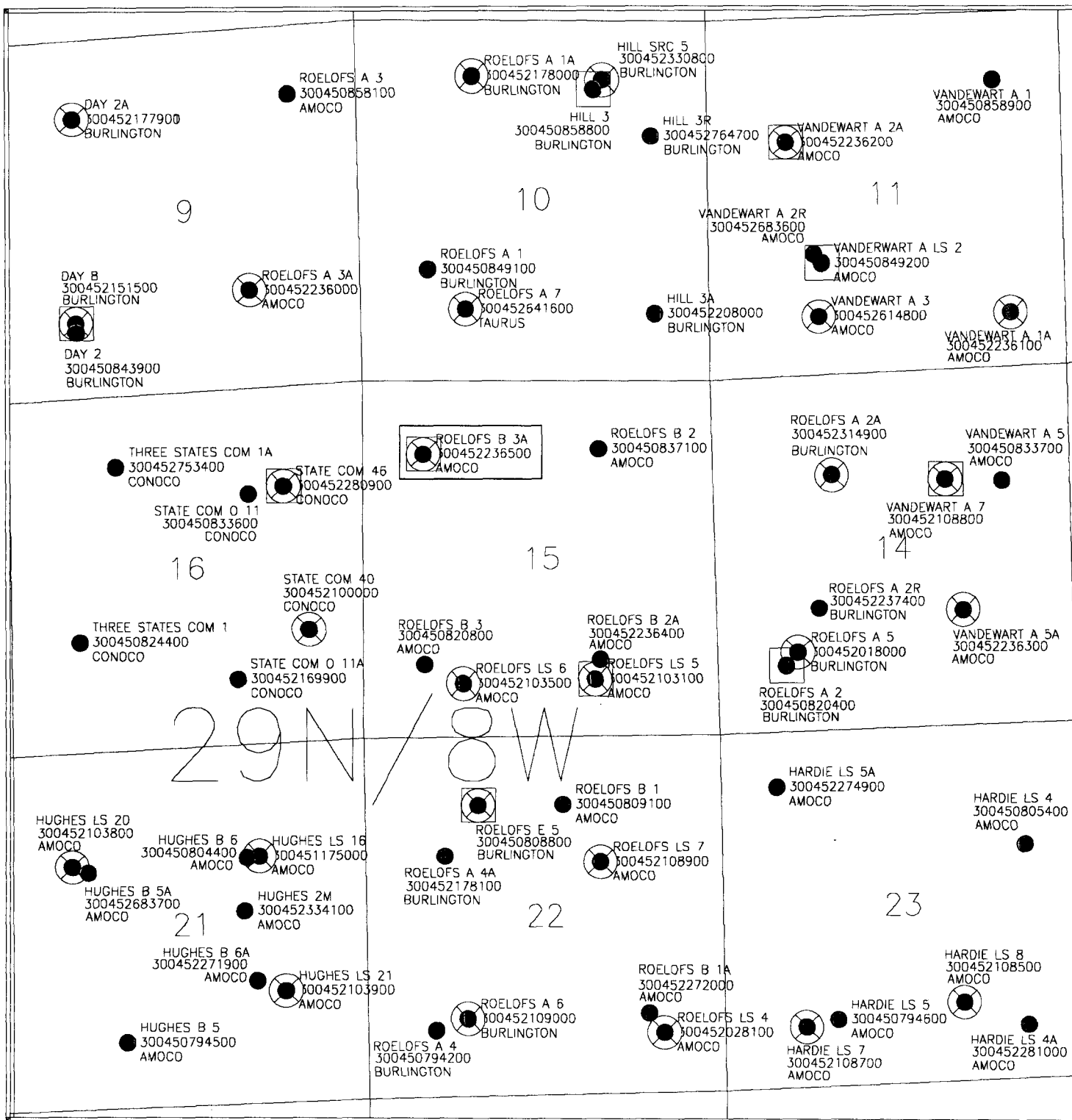
Date Surveyed
February 22, 1977

Registered Professional Engineer
and/or Land Surveyor

Fred B. Kopp, Jr.
Fred B. Kopp, Jr.

Certificate No.

3950



AMOCO PRODUCTION COMPANY		
ROELOFS B #3A - COMMINGLE PICTURED CLIFFS/MESAVERDE 9 SECTION PLD 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

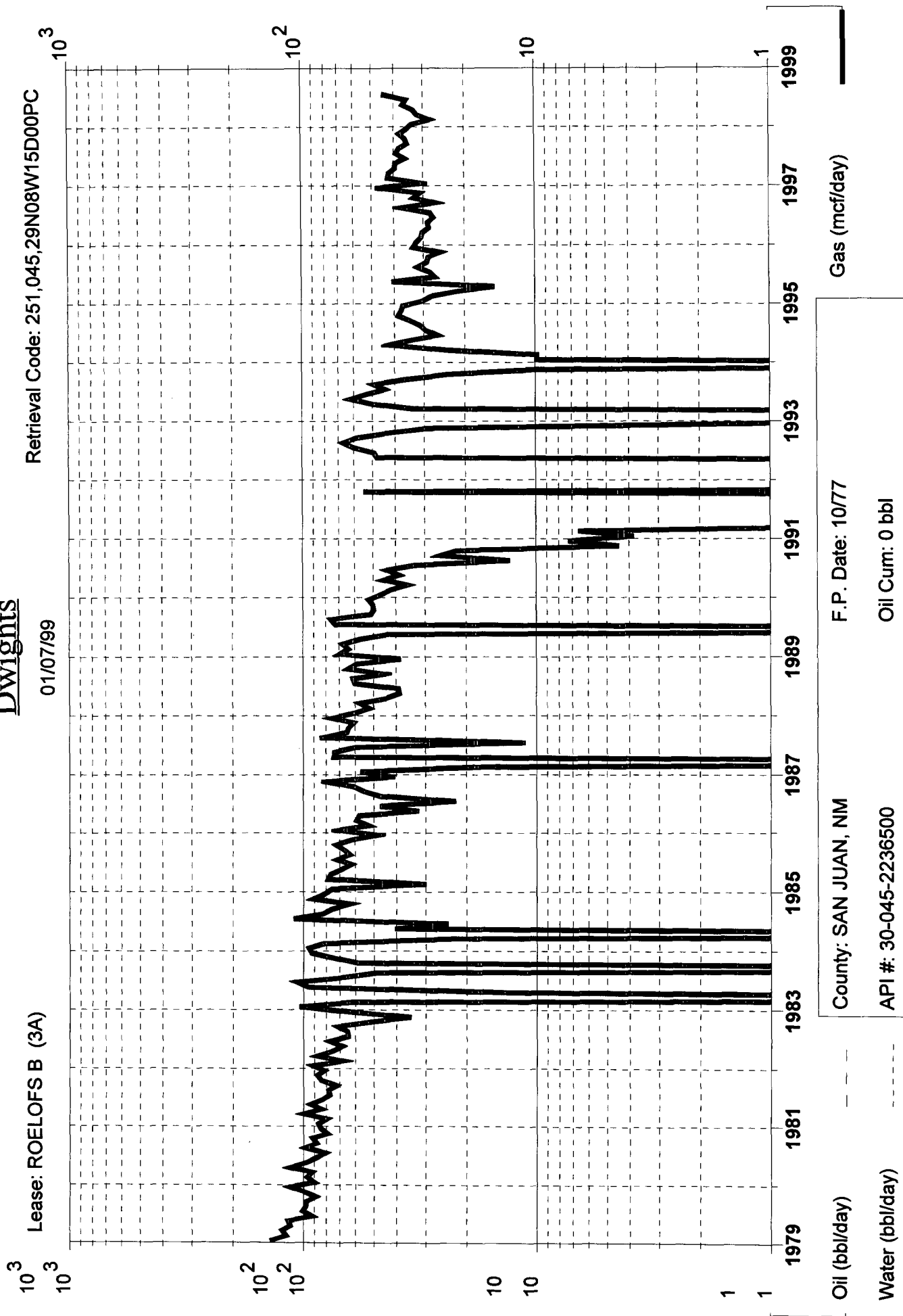
FM	BBL	%	GAS	%
PC	0	0%	7353	21%
MV	144	100%	27546	79%

Dwights

Lease: ROELOFS B (3A)

Retrieval Code: 251,045,29N08W15D00PC

01/07/99



County: SAN JUAN, NM	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

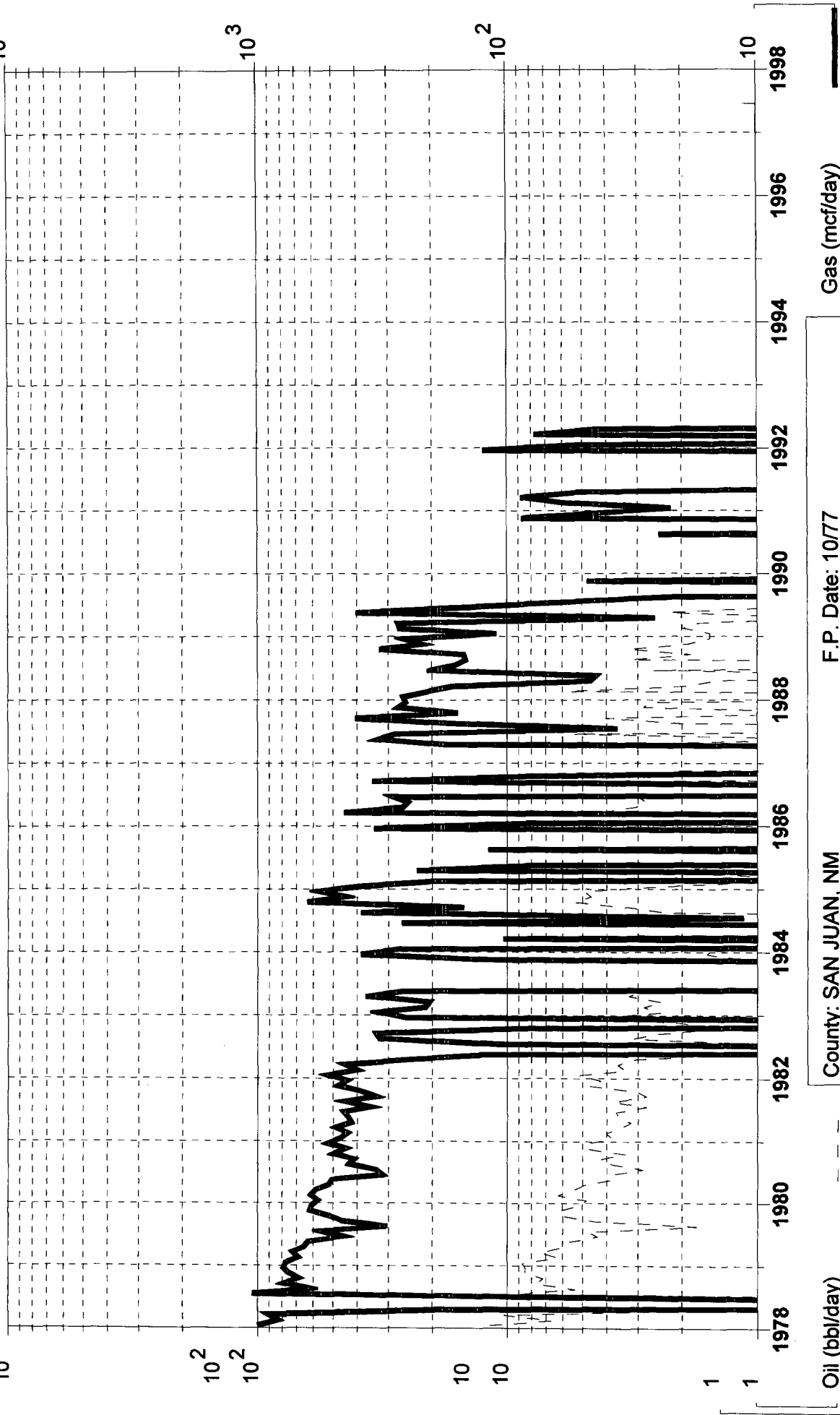
Dwights

Lease: ROELOFS B (3A)

Retrieval Code: 251,045,29N08W15D00MV

01/07/99

10³
10³
10²
10²
10¹
10¹
10⁰
10⁰
10⁴
10³
10²
10



Oil (bbl/day)

Water (bbl/day)

Gas (mcf/day)

F.P. Date: 10/77

County: SAN JUAN, NM

API #: 30-045-2236500

Oil Cum: 12.95 mmbbl

Gas Cum: 1350 mmcf

Reservoir: MESAVERDE

Location: 15D 29N 8W

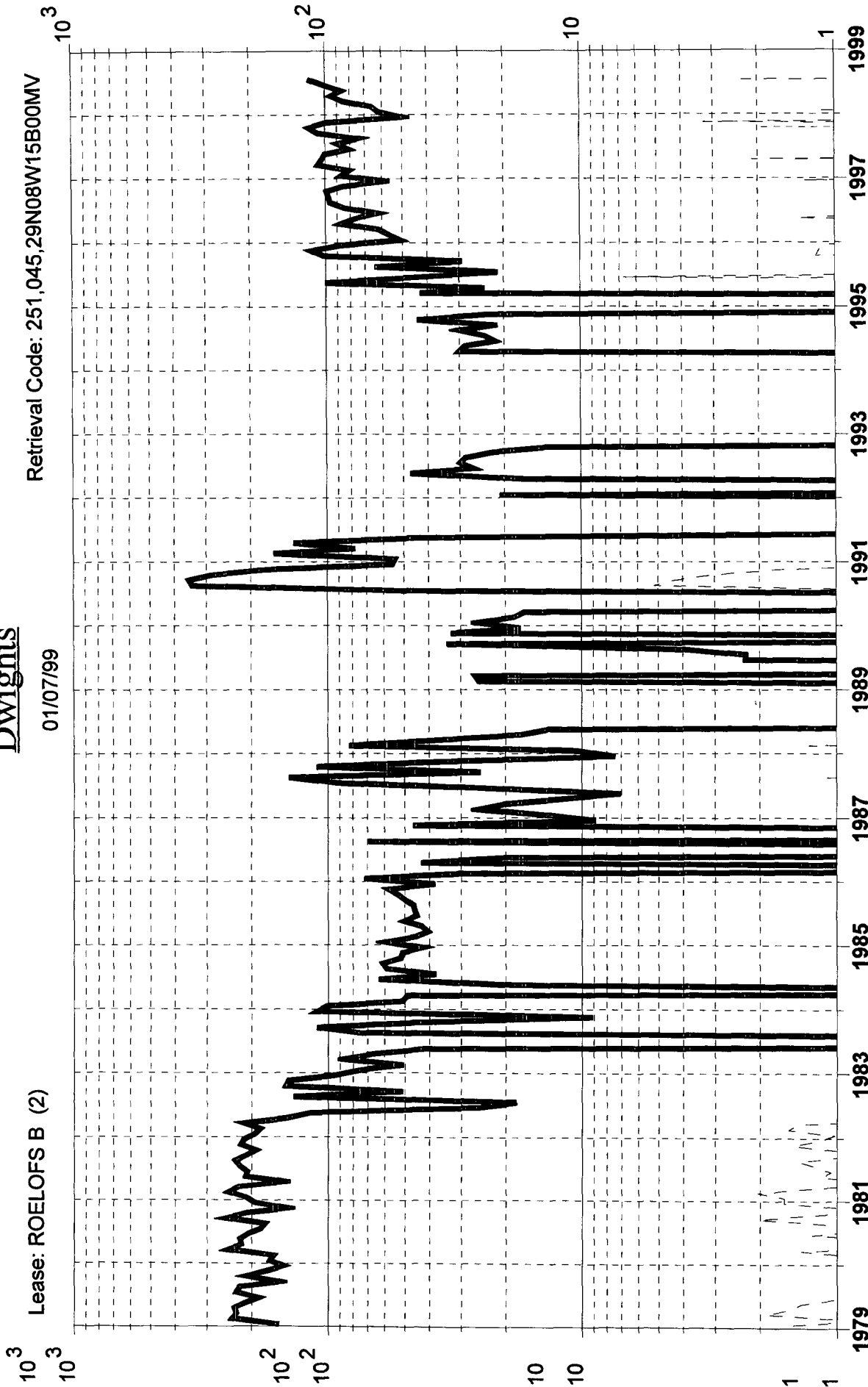
Operator: AMOCO PRODUCTION CO

Dwights

Lease: ROELOFS B (2)

Retrieval Code: 251,045,29N08W15B00MV

01/07/99



Oil (bbl/day)

Water (bbl/day)

Gas (mcf/day)

F.P. Date: 10/54

County: SAN JUAN, NM

Oil Cum: 15.92 mmbbl

API #: 30-045-0837100

Gas Cum: 3631 mmcf

Reservoir: MESAVERDE

Location: 15B 29N 8W

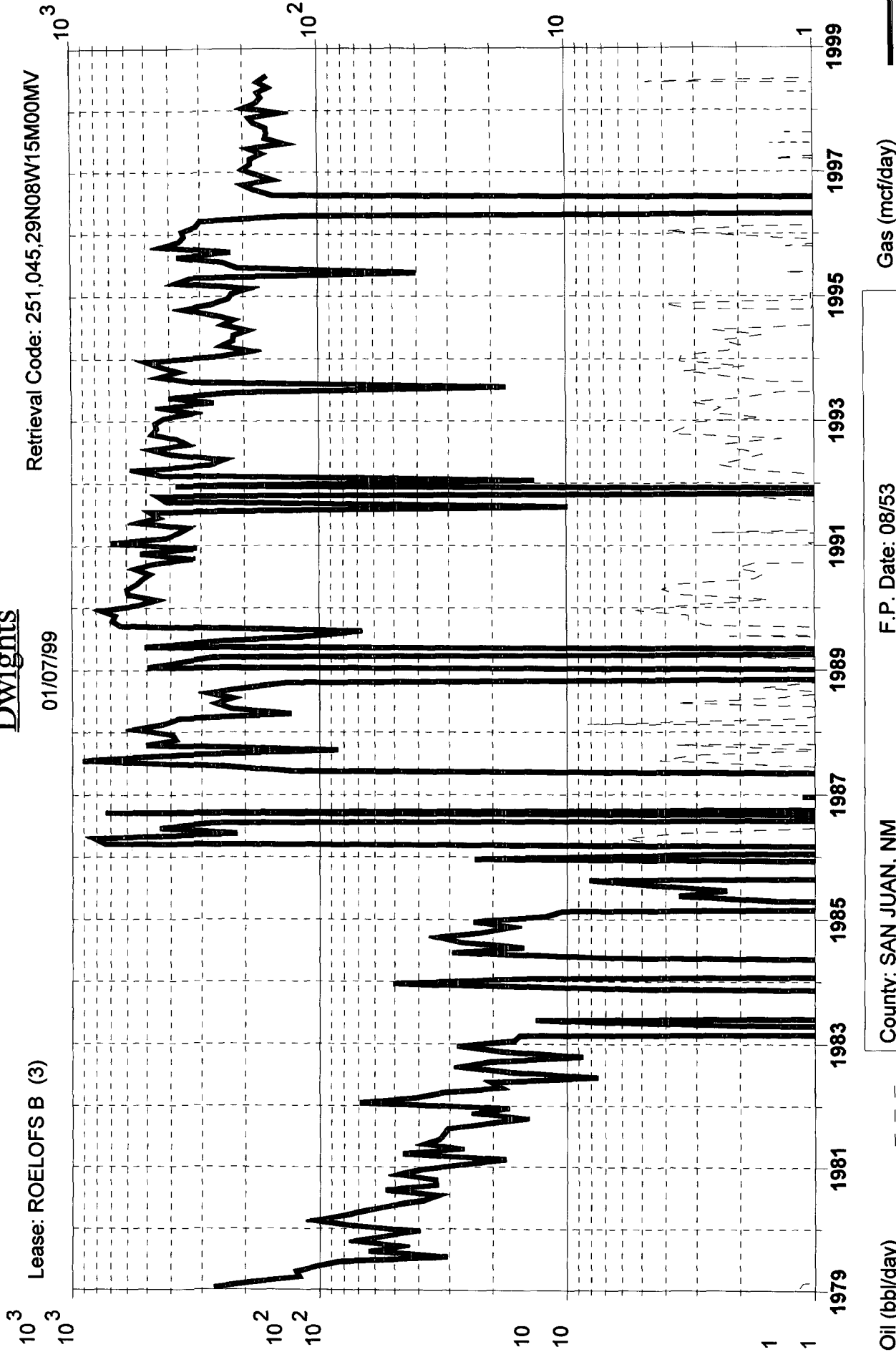
Operator: AMOCO PRODUCTION CO

Dwights

Lease: ROELOFS B (3)

Retrieval Code: 251,045,29N08W15M00MV

01/07/99



Oil (bbl/day)

Water (bbl/day)

Gas (mcf/day)

County: SAN JUAN, NM F.P. Date: 08/53

API #: 30-045-0820800 Oil Cum: 20.47 mbbl

Reservoir: MESAVERDE Gas Cum: 5047 mmcf

Operator: AMOCO PRODUCTION CO Location: 15M 29N 8W