

DISTRICT I
P.O. Box 1980, Hobbs NM 882
1-1980

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

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

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C- 07-A
New 3 12-93

OIL CONSERVATION DIVISION

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

APPROVAL PROCESS:

☒ Administrative ☐ Hearing

EXISTING WELLBORE

☒ YES ☐ NO

APPLICATION FOR DOWNHOLE COMMINGLING

Amoco Production Company

P.O. Box 800 Denver, CO 80201

Operator
~~Jane~~ Mansfield
Lease

1A
Well No.

Address
A-19-30N-9W
Unit Ltr. - Sec Twp - Rge

San Juan
County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 000778 Property Code 000816 API NO. 3004522026 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	BASIN FRUITLAND COAL 71629		BLANCO MESAVERDE 72319
2. Top and Bottom of Pay Section (Perforations)	2667' - 2747'	RECEIVED JUN 5 1998	4952' - 5178'
3. Type of production (Oil or Gas)	GAS		GAS
4. Method of Production (Flowing or Artificial Lift)	FLOWING	OIL CON. DIV. DIST. 3	FLOWING
5. Bottomhole Pressure Oil Zones - Artificial Lift: Gas & Oil - Flowing: All Gas Zones: Estimated Current Measured Current Estimated or Measured Original	a. (Current) 800 PSI b. (Original) 1059 PSI	a. b.	a. 800 PSI b. 1257 PSI
6. Oil Gravity (° API) or Gas BTU Content	1140 BTU		1190 BTU / 49.5 DEG API
7. Producing or Shut-In?	PRODUCING		PRODUCING
Production Marginal? (yes or no)	YES		NO
• If Shut-In, give date 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: Rates:
• If Producing, give date and oil/gas/water rates of recent test (within 60 days)	Date: Rates: 10 MCFD 0 BCPD	Date: Rates:	Date: Rates: 100 MCFD 0.5 BCPD
8. Fixed Percentage Allocation Formula -% for each zone	Oil: 0 % Gas 15 %	Oil: % Gas %	Oil: 100 % Gas 85 %

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. *Recommend submitting allocations based on well tests.*
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-076934 SF-07811 COM NMNM-073127
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 a: least one year. (If not available, attach explanation.)
 - * For zones with no production history, estimated production history 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.

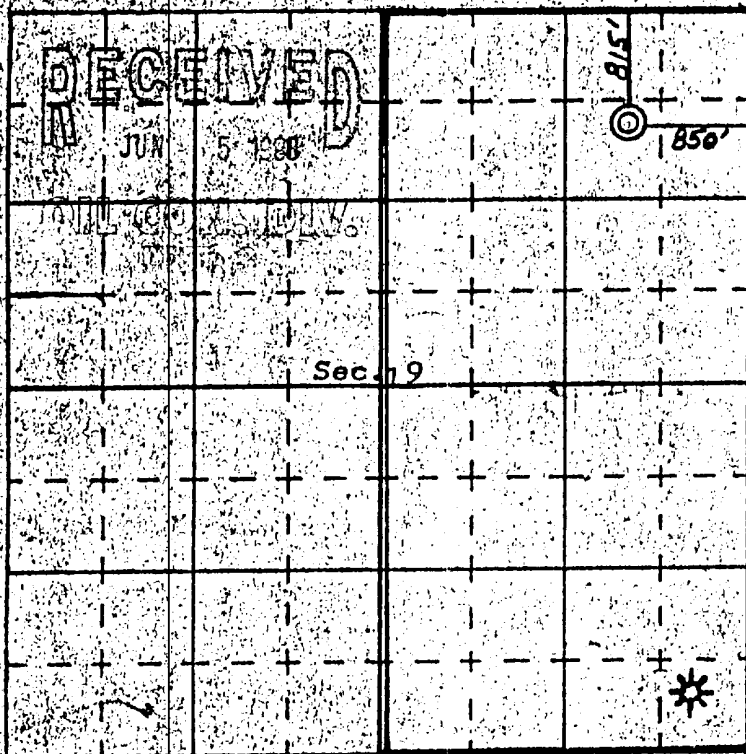
SIGNATURE Pamela W. Staley TITLE REGULATORY AFFAIRS ENGR DATE 6/1/98
TYPE OR PRINT NAME PAMELA W. STALEY TELEPHONE NO. (303) 830-5344

**NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACERAGE DEDICATION PLAT**

All distances must be from the outer boundaries of the Section

Operator TENNECO OIL COMPANY			Lease MANSFIELD		Well No. 1-A
Unit/Letter A	Section 19	Township 30 NORTH	Range 9 WEST	County SAN JUAN	
Actual Footage Location of Well: 815 feet from the NORTH line and 850 feet from the EAST line					
Ground Level Elev. 6131	Producing Formation Blanco Mesaverde		Pool Blanco Mesaverde	Dedicated Acreage: 320 E/2 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 _____
 If answer is "no," list the owners and tract descriptions which have actually 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.

Ted J. Drury
Name _____

Position _____

Production Clerk
Company _____

Date **Tenneco Oil Co.**
3/23/76

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.

10 March, 1976
Date Surveyed _____

James P. Leese
Registered Professional Engineer
and/or Land Surveyor
James P. Leese

1463
Certificate No. _____

ADMN 015889

NEW ME. OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form O-104
Supersedes C-128
Effective 1-1-80

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

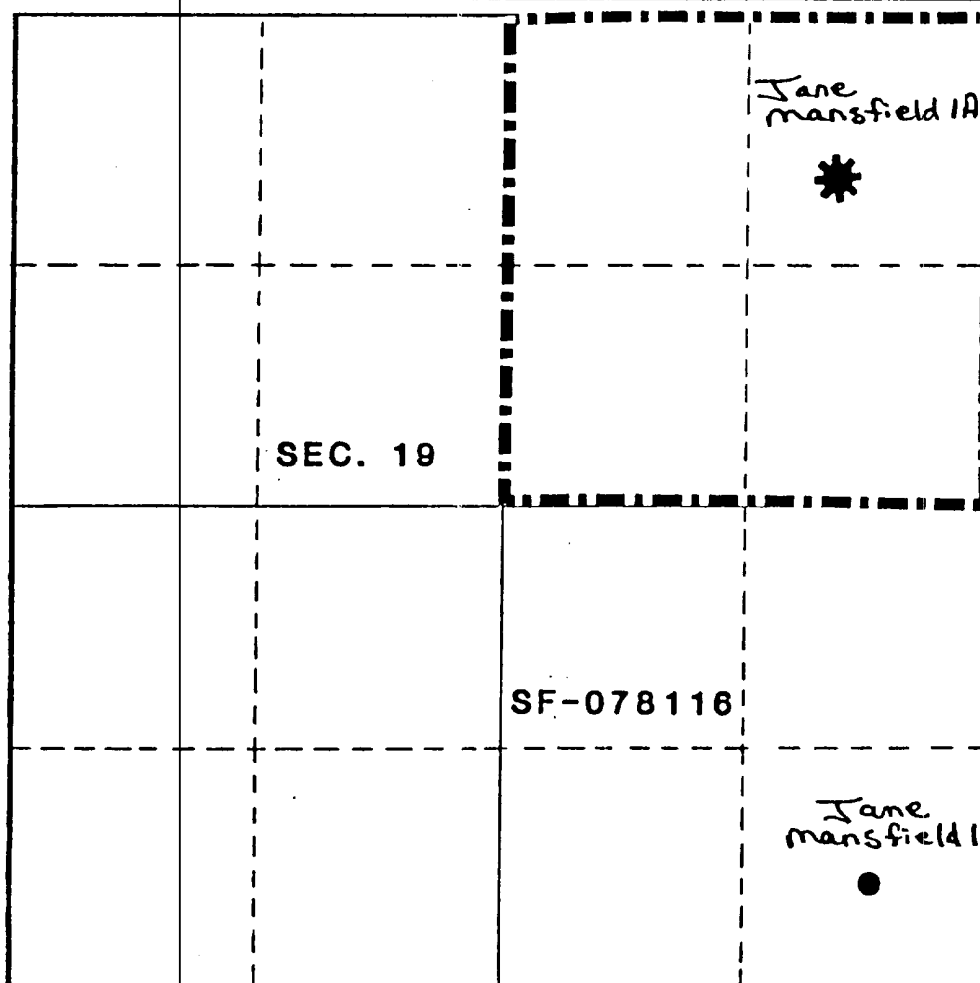
Operator Tenneco Oil Company		Lease Jane Mansfield		Well No. 1A
Unit Letter A	Section 19	Township 30N	Range 9W	County San Juan
Actual Footage Location of Well: 815 feet from the North line and 850 feet from the East line				
Ground Level Elev. 6131	Producing Formation Fruitland Coal		Pool Blanco Fruitland Ext.	Dedicated Acreage: 160 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 _____

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.

Scott McKinnay

Name
Senior Regulatory Analyst

Position
Senior Regulatory Analyst

Company
Tenneco Oil Company

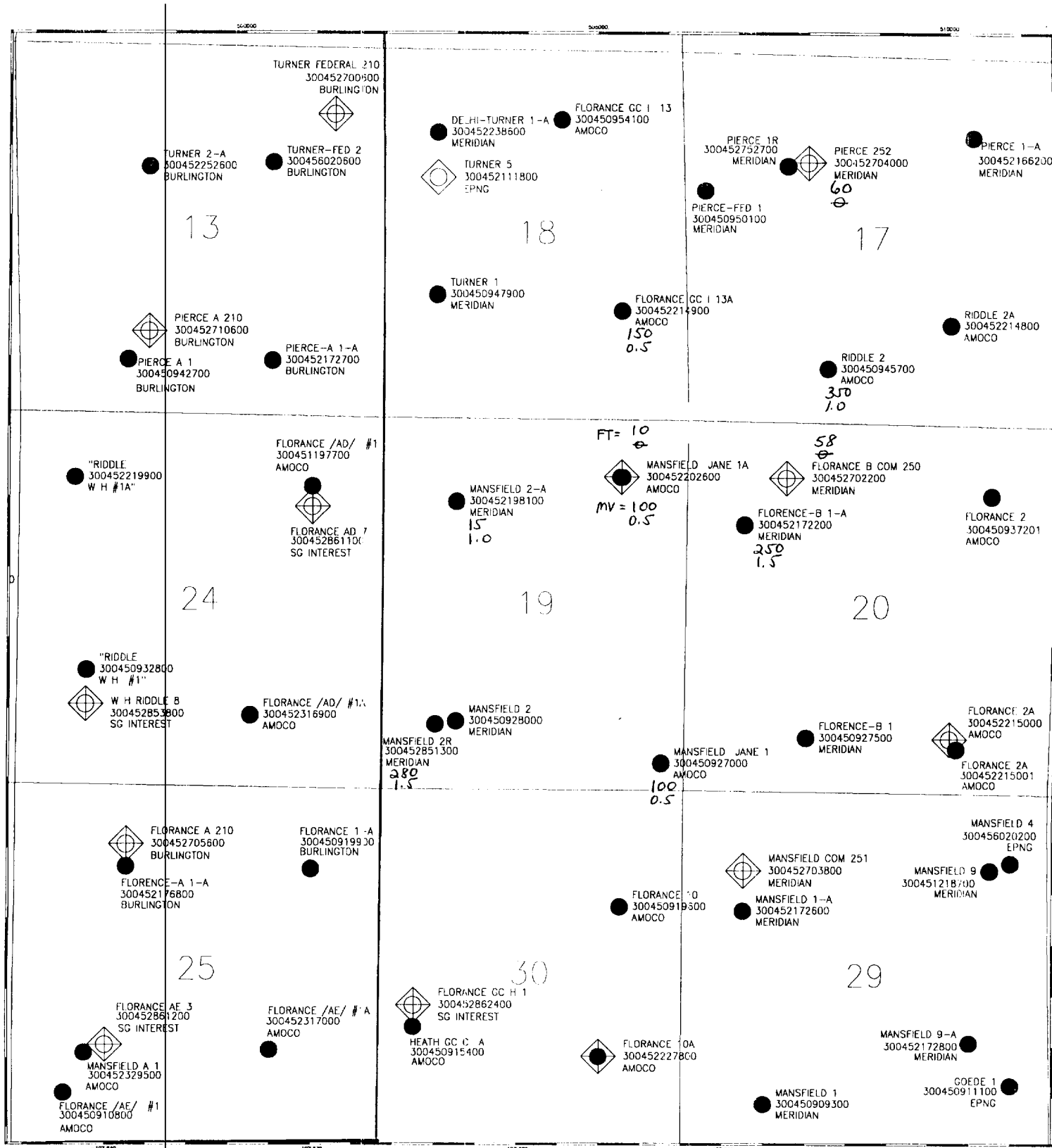
Date
July 17, 1984

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

Registered Professional Engineer and/or Land Surveyor

Certificate No.



Allocations:

MV gas = 85 %
MV oil = 100 %
API gravity = 49.5
MV BHP = 800

FT gas = 15 %
FT oil = 0 %
FT BHP = 800

LEGEND

- MESAVERDE 1st # = mcfD
- ◇ FRUITLAND 2nd # = BOPD
- ◇ FRUITLAND COAL

AMOCO PRODUCTION COMPANY		
JANE MANSFIELD #1A - COMMINGLE 9 SECTION PLAT		
ALC		4/30/98
Scale 1"=22485.27'		

Dwights

Lease: RIDDLE (2)

Retrieval Code: 251,045,30N09W17N00MV

04/29/98

10³
10⁴
10³

10³

10²
10³
10²

10²

10
10²
10

10

1

10

1970

1972

1974

1976

1978

1980

1982

1984

1986

1988

1990

1992

1994

1996

1998

Gas (mcf/day)

Water (bbl/day)

Oil (bbl/day)

County: SAN JUAN, NM

F.P. Date: 12/50

API #: 30-045-0945700

Oil Cum: 16.27 mbbl

Reservoir: MESAVERDE

Gas Cum: 9042 mmcf

Operator: AMOCO PRODUCTION CO

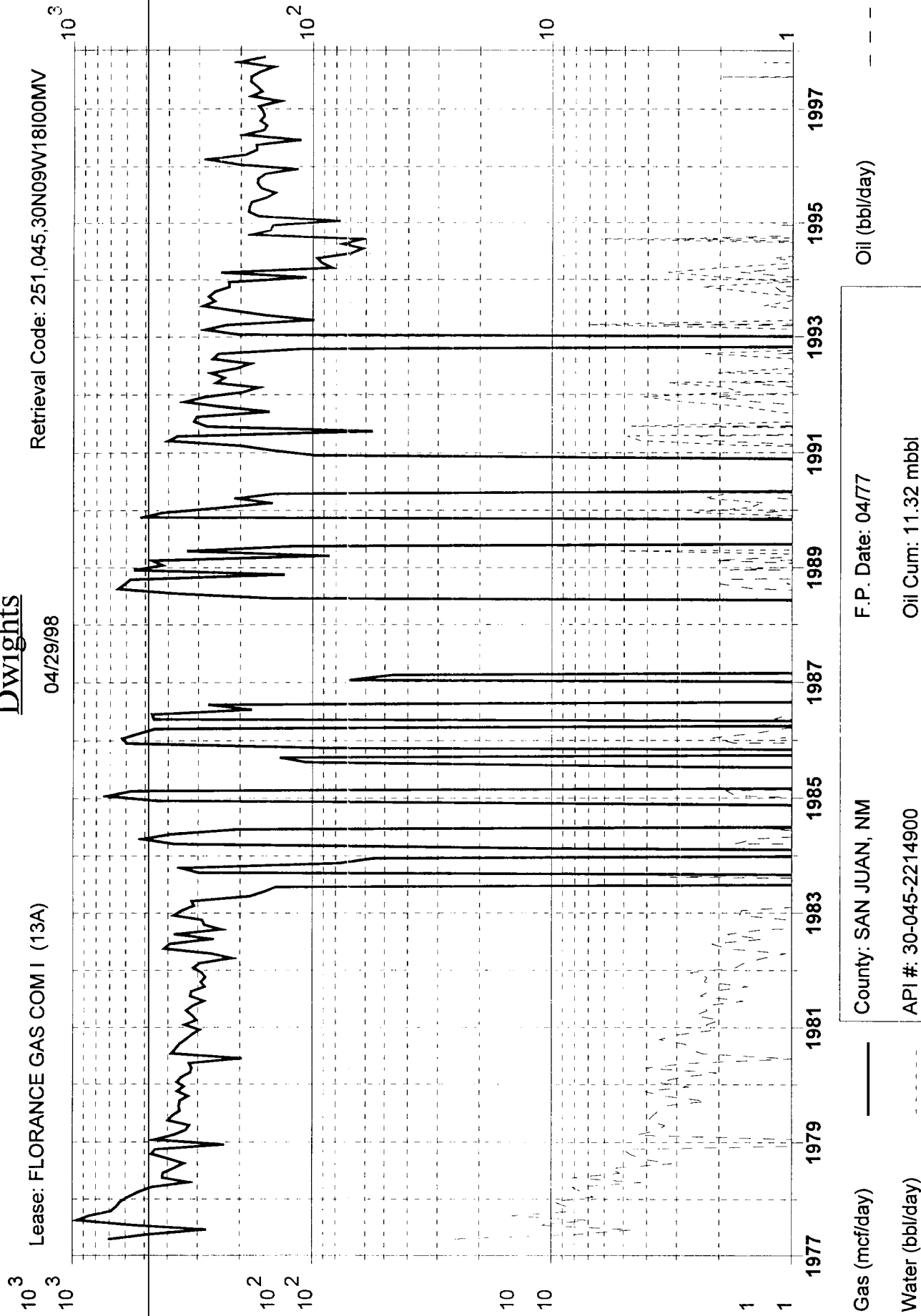
Location: 17N 30N 9W

Dwights

Lease: FLORANCE GAS COM I (13A)

Retrieval Code: 251,045,30N09W18100MV

04/29/98



F.P. Date: 04/77

County: SAN JUAN, NM

Oil Cum: 11.32 mbbl

API #: 30-045-2214900

Gas Cum: 1741 mmcf

Reservoir: MESAVERDE

Location: 181 30N 9W

Operator: AMOCO PRODUCTION CO

Dwights

Lease: MANSFIELD (1A)

Retrieval Code: 251,045,30N09W19A00MV

04/29/98

10³
10⁴
10³

10³

10²
10³
10³

10²

10¹
10²
10²

10

1

1976 1978 1980 1982 1984 1986 1988 1990 1992 1994 1996 1998

Gas (mcf/day)

Water (bbl/day)

Oil (bbl/day)

F.P. Date: 12/76

Oil Cum: 2940 bbl

Gas Cum: 2327 mmcf

Location: 19A 30N 9W

County: SAN JUAN, NM

API #: 30-045-2202600

Reservoir: MESAVERDE

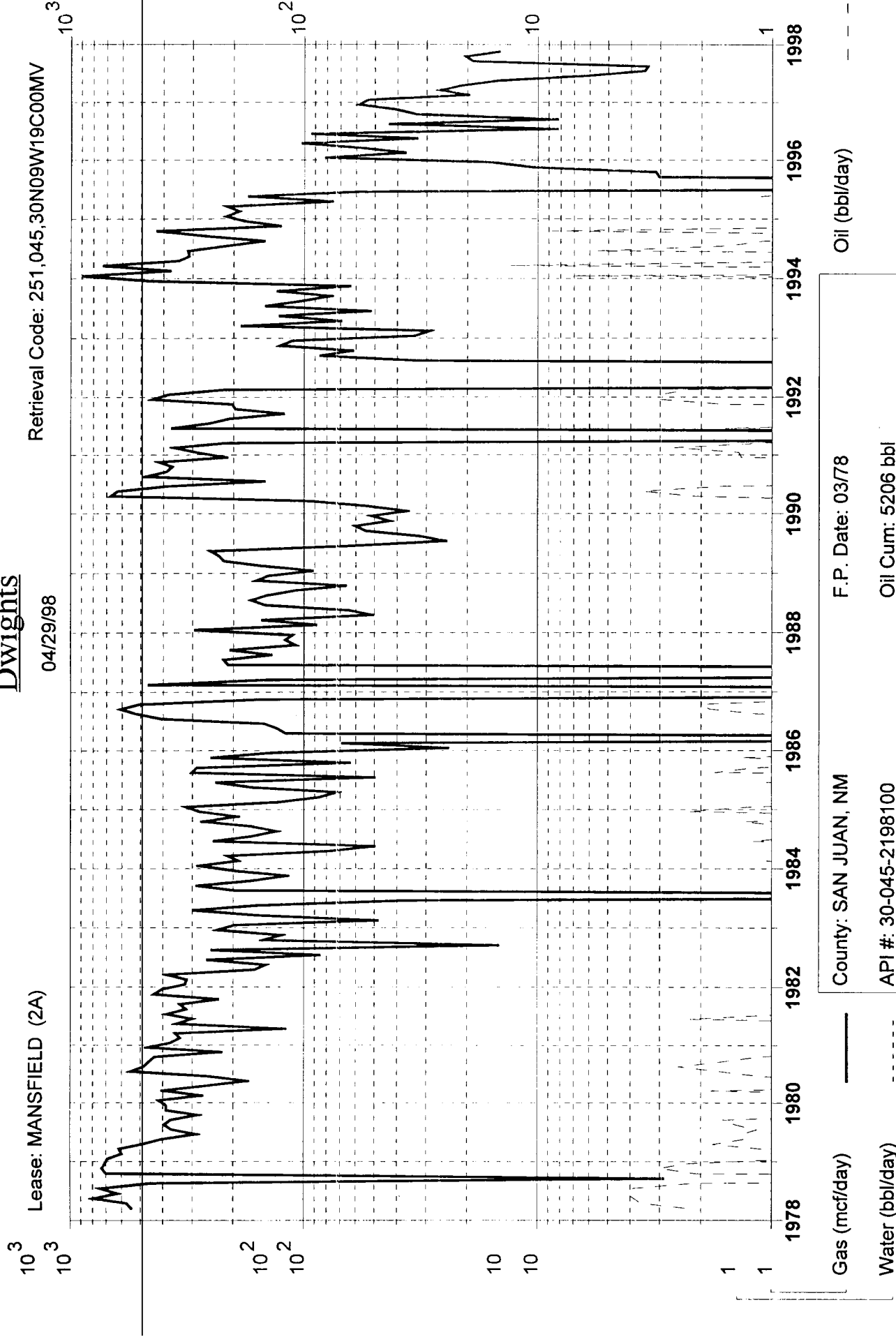
Operator: AMOCO PRODUCTION CO

Dwights

Lease: MANSFIELD (2A)

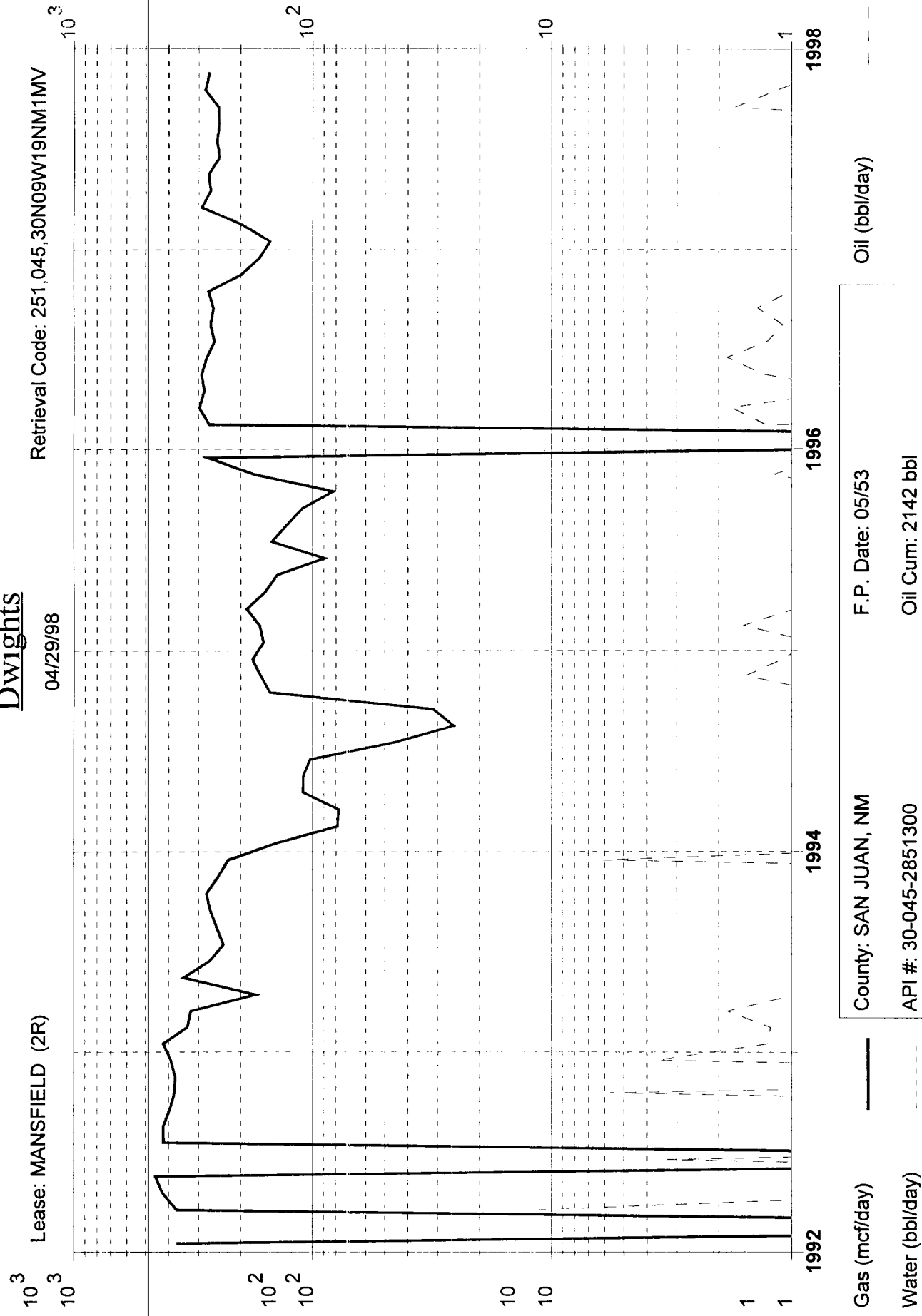
04/29/98

Retrieval Code: 251,045,30N09W19C00MV



County: SAN JUAN, NM	F.P. Date: 03/78
API #: 30-045-2198100	Oil Cum: 5206 bbl
Reservoir: MESAVERDE	Gas Cum: 1534 mmcf
Operator: BURLINGTON RES O&G CO	Location: 19C 30N 9W

04/29/98



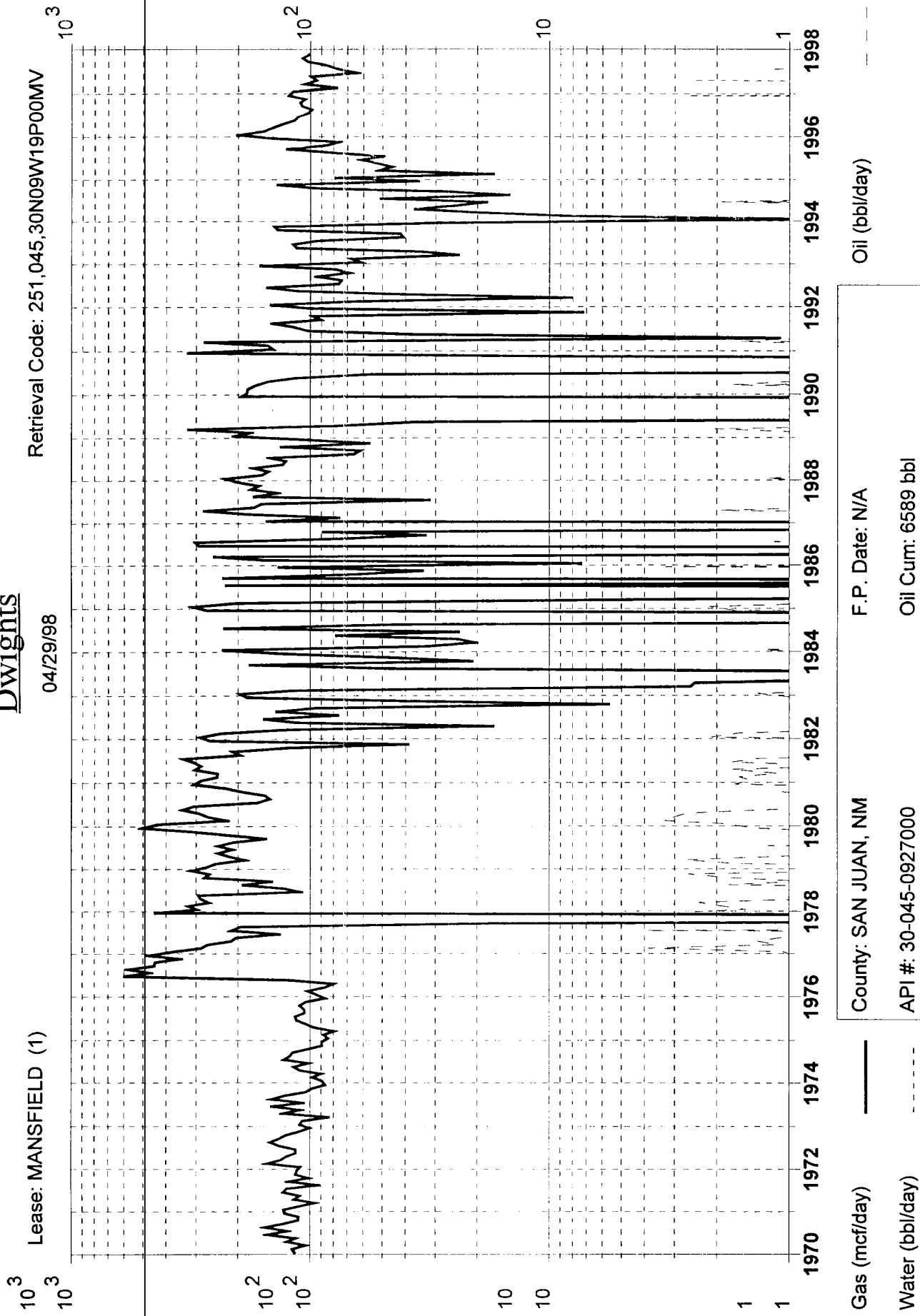
County: SAN JUAN, NM	F.P. Date: 05/53
API #: 30-045-2851300	Oil Cum: 2142 bbl
Reservoir: MESAVERDE	Gas Cum: 484.2 mmcf
Operator: BURLINGTON RES O&G CO	Location: 19N 30N 9W

Dwights

Lease: MANSFIELD (1)

04/29/98

Retrieval Code: 251,045,30N09W19P00MV



F.P. Date: N/A

County: SAN JUAN, NM

Oil Cum: 6589 bbl

API #: 30-045-0927000

Gas Cum: 2754 mmcf

Reservoir: MESAVERDE

Location: 19P 30N 9W

Operator: AMOCO PRODUCTION CO

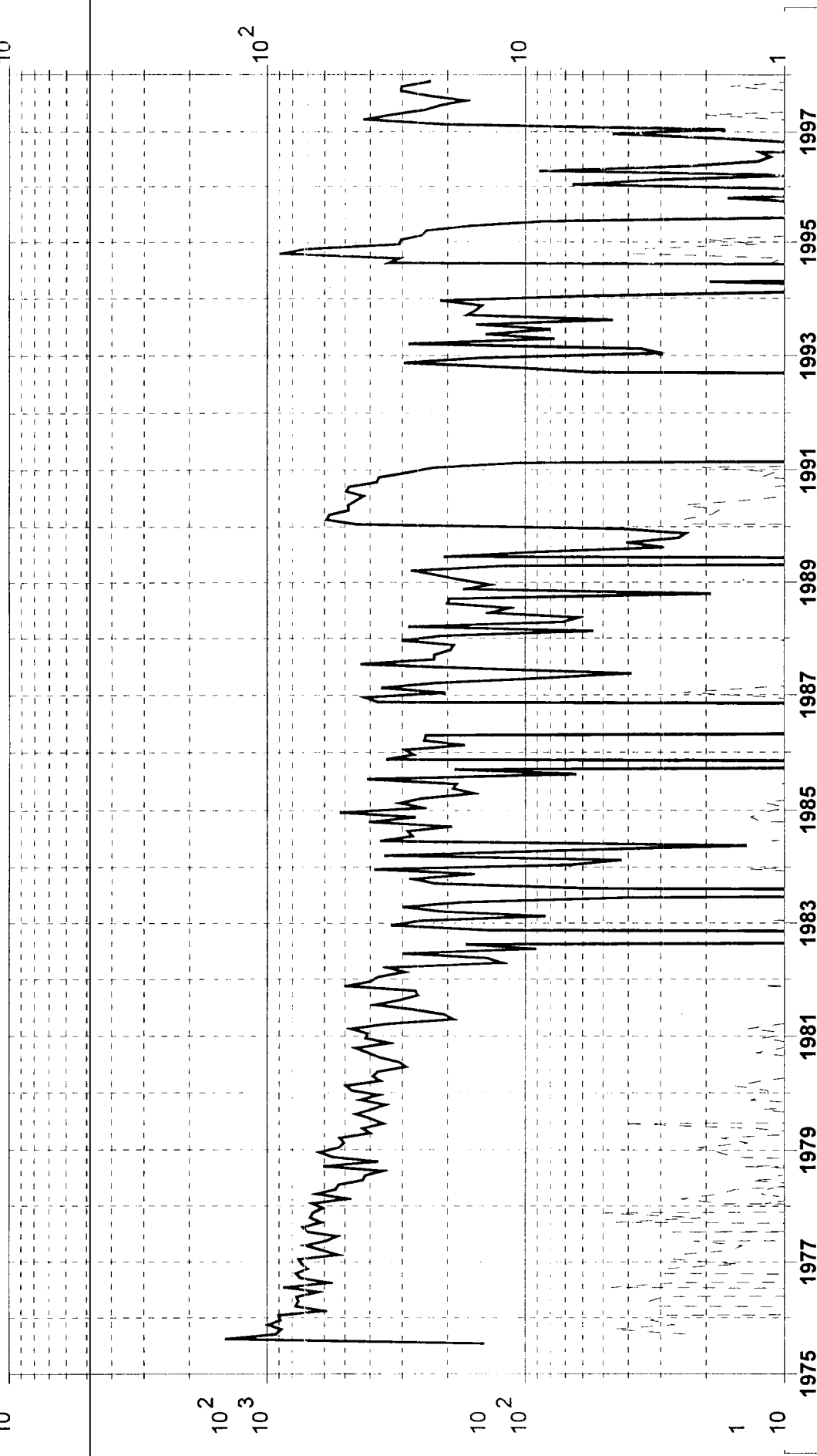
Dwights

Lease: FLORANCE B (1A)

Retrieval Code: 251,045,30N09W20E00MV

04/29/98

10³
10⁴
10³
10²
10³
10²
10¹
10⁰



County: SAN JUAN, NM	F.P. Date: 07/75
API #: 30-045-2172200	Oil Cum: 6551 bbl
Reservoir: MESAVERDE	Gas Cum: 2239 mmcf
Operator: BURLINGTON RES O&G CO	Location: 20E 30N 9W

Oil (bbl/day)

Gas (mcf/day)

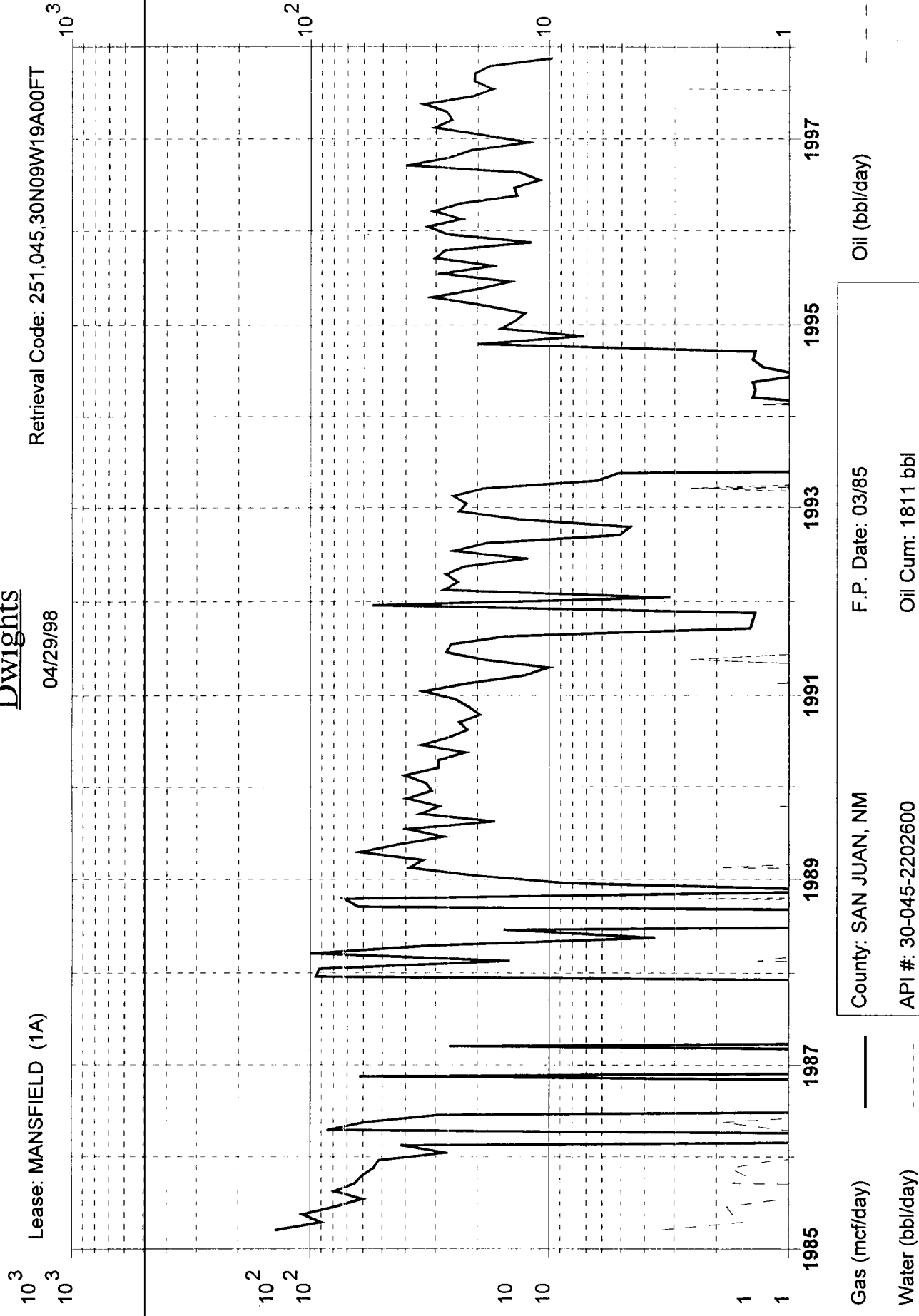
Water (bbl/day)

Dwights

Lease: MANSFIELD (1A)

04/29/98

Retrieval Code: 251,045,30N09W19A00FT



County: SAN JUAN, NM	F.P. Date: 03/85
API #: 30-045-2202600	Oil Cum: 1811 bbl
Reservoir: FRUITLAND COAL	Gas Cum: 111.6 mmcf
Operator: AMOCO PRODUCTION CO	Location: 19A 30N 9W

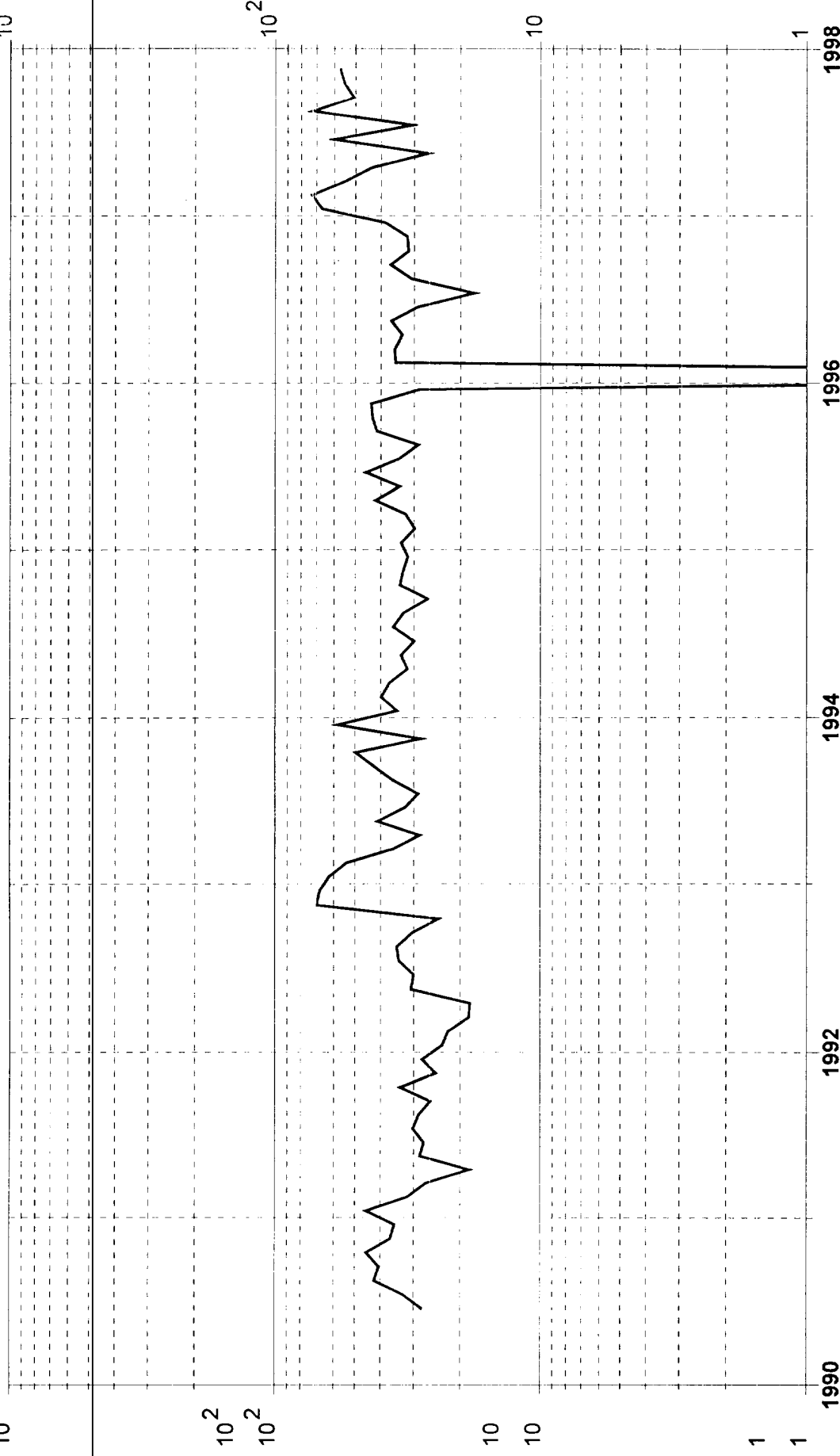
Dwights

Lease: FLORANCE B (250)

Retrieval Code: 251,045,30N09W20C00FT

04/29/98

10³ 10³ 10² 10² 10 10 1 1 1990 1992 1994 1996 1998



Gas (mcf/day)

Water (bbl/day)

Oil (bbl/day)

County: SAN JUAN, NM

API #: 30-045-2702200

Reservoir: FRUITLAND COAL

Operator: BURLINGTON RES O&G CO

F.P. Date: 06/90

Oil Cum: 0 bbl

Gas Cum: 99.97 mmcf

Location: 20C 30N 9W

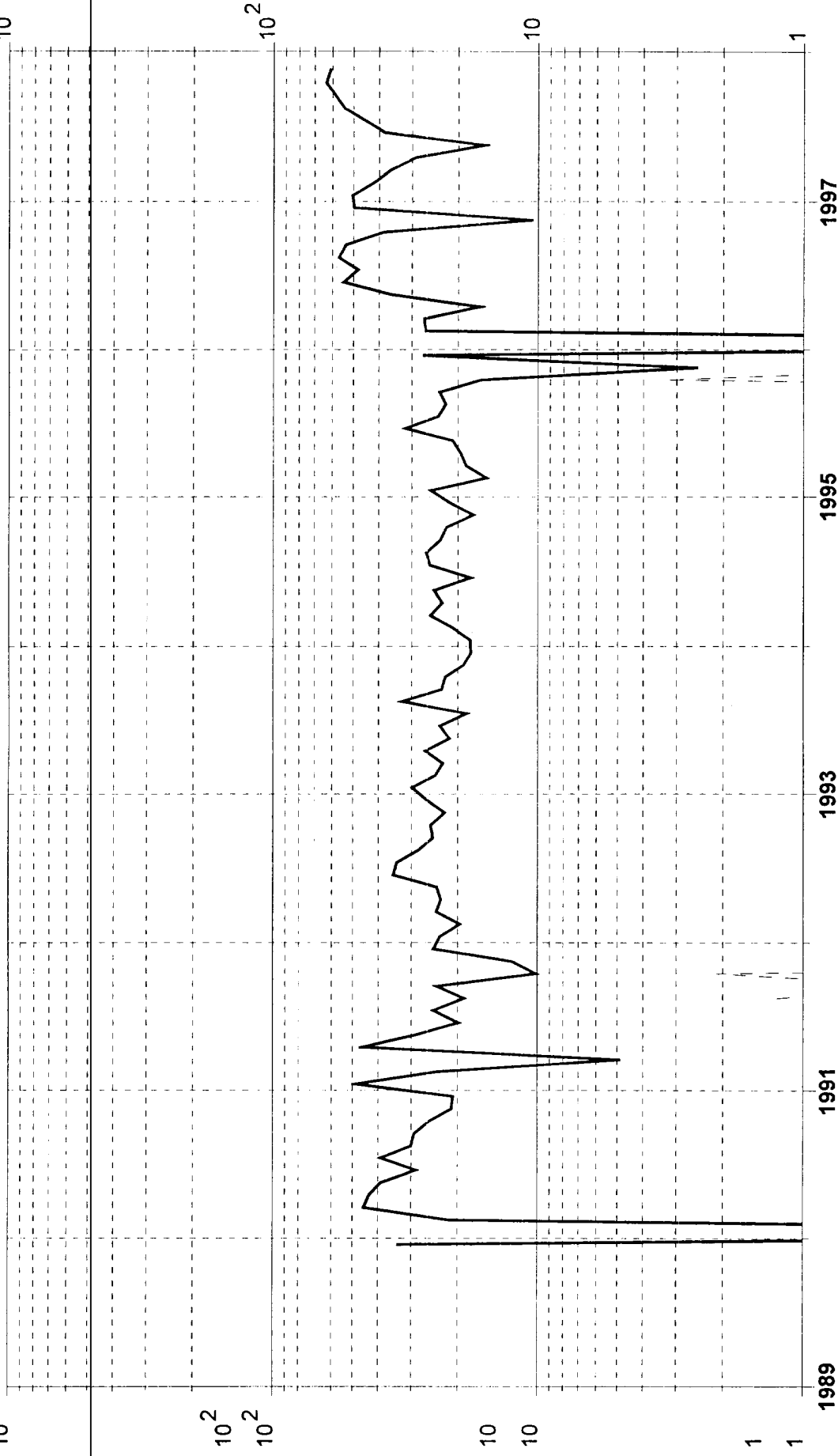
Dwights

Lease: PIERCE (252)

Retrieval Code: 251,045,30N09W17F00FT

04/29/98

10³
10³
10²
10²
10
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1
1



Gas (mcf/day)

Water (bbl/day)

Oil (bbl/day)

F.P. Date: 12/89

Oil Cum: 446 bbl

Gas Cum: 81.33 mmcf

Location: 17F 30N 9W

County: SAN JUAN, NM

API #: 30-045-2704000

Reservoir: FRUITLAND COAL

Operator: BURLINGTON RES O&G CO

Dwights

Lease: RIDDLE (2)

04/29/98

Retrieval Code: 251,045,30N09W17N00MV

720

960

630

840

540

720

450

600

360

480

270

360

180

240

90

120

0

0

BHP/Z

WHSIP

*

○

County: SAN JUAN, NM

API #: 30-045-0945700

Reservoir: MESAVERDE

Operator: AMOCO PRODUCTION CO

F.P. Date: 12/50

Oil Cum: 16.27 mbbl

Gas Cum: 9042 mmcf

Location: 17N 30N 9W

WHFP

+

560

490

420

350

280

210

140

70

0

Gas(MMCF)

Dwights

720

Lease: FLORANCE GAS COM I (13A)

Retrieval Code: 251,045,30N09W18100MV

960

04/29/98

480

630

420

840

360

540

300

720

240

450

180

600

120

360

60

480

0

270

0

360

0

180

0

240

0

90

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120

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0

BHP/Z

WHSIP

County: SAN JUAN, NM

API #: 30-045-2214900

Reservoir: MESAVERDE

Operator: AMOCO PRODUCTION CO

F.P. Date: 04/77

Oil Cum: 11.32 mbbl

Gas Cum: 1741 mmcf

Location: 181 30N 9W

WHFP

+

Gas(MMCF)

Dwights

Lease: MANSFIELD (1A)

04/29/98

Retrieval Code: 251,045,30N09W19A00MV

800

960

700

840

600

720

500

600

400

480

300

360

200

240

100

120

0

0

BHP/Z

WHSIP

480

420

360

300

240

180

120

60

0

Gas(MMCF)

WHFP

F.P. Date: 12/76

Oil Cum: 2940 bbl

Gas Cum: 2327 mmcf

Location: 19A 30N 9W

County: SAN JUAN, NM

API #: 30-045-2202600

Reservoir: MESAVERDE

Operator: AMOCO PRODUCTION CO

Dwights

Lease: MANSFIELD (2R)

04/29/98

Retrieval Code: 251,045,30N09W19NM1MV

560
640

490

420

480

350

400

280

320

210

240

140

160

70

80

0

0

BHP/Z

WHSIP

400

350

300

250

200

150

100

50

0

Gas(MMCF)

BHP/Z

WHSIP

WHFP

F.P. Date: 05/53

Oil Cum: 2142 bbl

Gas Cum: 484.2 mmcf

Location: 19N 30N 9W

County: SAN JUAN, NM

API #: 30-045-2851300

Reservoir: MESAVERDE

Operator: BURLINGTON RES O&G CO

Dwights

Lease: MANSFIELD (1)

04/29/98

Retrieval Code: 251,045,30N09W19P00MV

800
960

700

840

600

720

500

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240

100

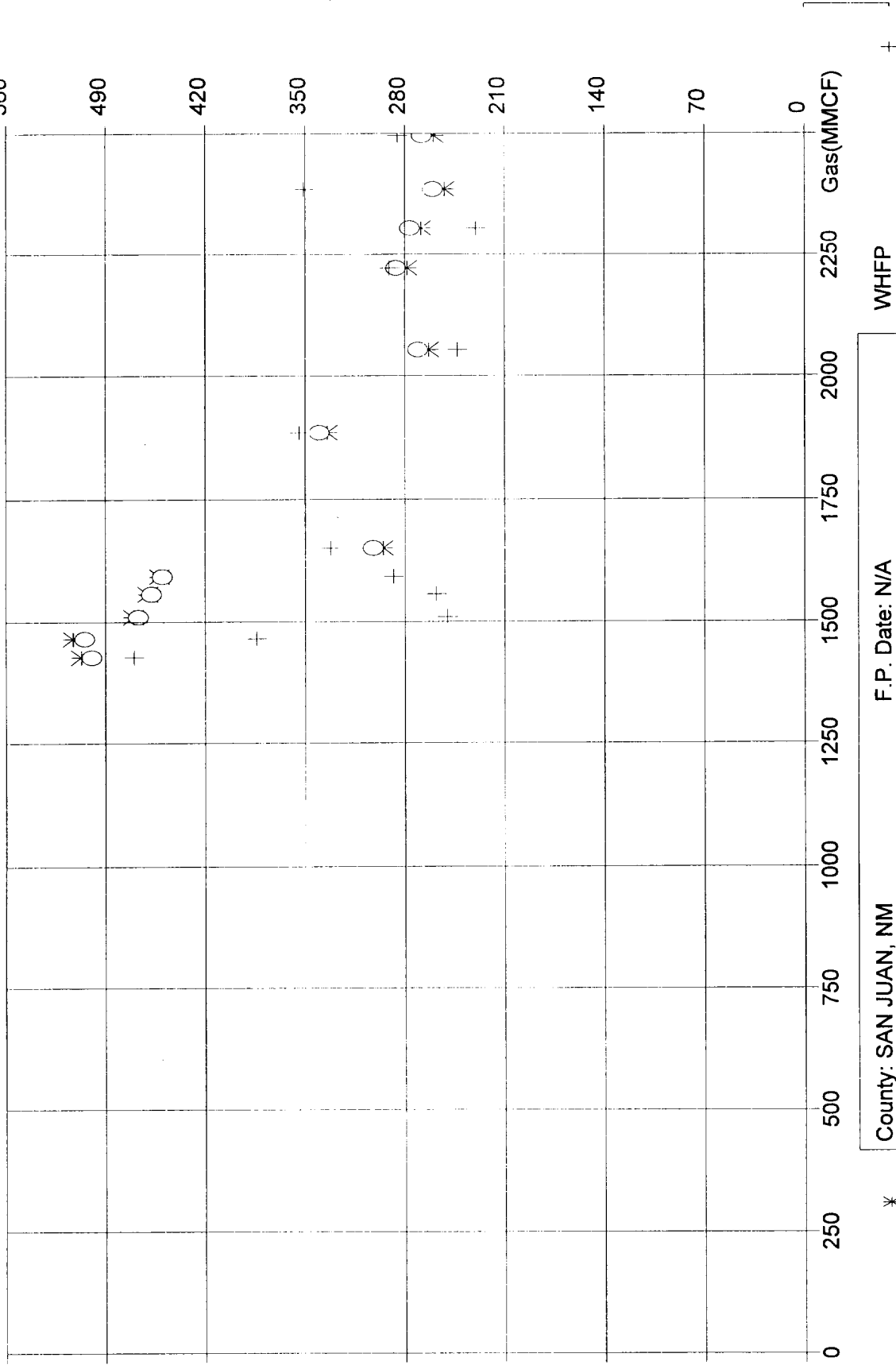
120

0

0

BHP/Z

WHSIP



WHPF

F.P. Date: N/A

County: SAN JUAN, NM

Oil Cum: 6589 bbl

API #: 30-045-0927000

Gas Cum: 2754 mmcf

Reservoir: MESAVERDE

Location: 19P 30N 9W

Operator: AMOCO PRODUCTION CO

Dwights

Lease: FLORANCE B (1A)

04/29/98

Retrieval Code: 251,045,30N09W20E00MV

720

800

630

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180

200

90

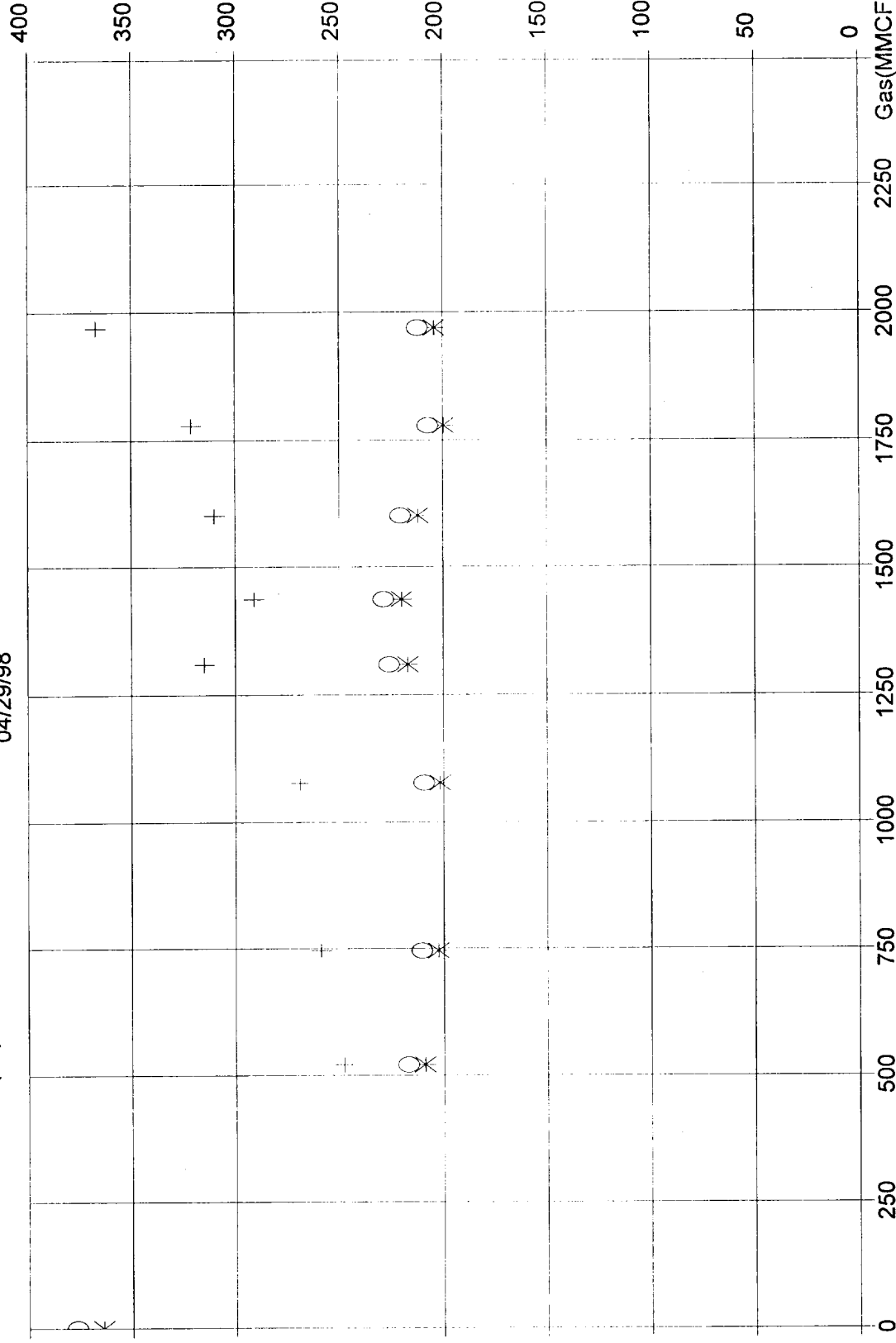
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BHP/Z

WHSIP



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F.P. Date: 07/75

County: SAN JUAN, NM

API #: 30-045-2172200

Oil Cum: 6551 bbl

Reservoir: MESAVERDE

Gas Cum: 2239 mmcf

Operator: BURLINGTON RES O&G CO

Location: 20E 30N 9W

WHFP

+