

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 87410-1693

APPLICATION FOR DOWNHOLE COMMINGLING

EXISTING WELLBORE
☒ YES ☐ NO

Amoco Production Company		P.O. Box 800 Denver, CO 80201	
Operator Florance O	20A	Address J-24-30N-9W	San Juan
Lease	Well No.	Unit Ltr. - Sec Twp - Rge	County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 000778 Property Code 000551 API NO. 3004522152 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 PICTURED CLIFFS 72359		BLANCO MESAVERDE 72319
2. Top and Bottom of Pay Section (Perforations)	2544' - 2574'		4054' - 4870'
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:	a. (Current) 525 PSI	a.	680 PSI
Gas & Oil - Flowing:			
All Gas Zones:	b. (Original) 1157 PSI	b.	1225 PSI
Estimated or Measured Original			
6. Oil Gravity (° API) or Gas BTU Content	1135 BTU		1191 BTU / 49.5 DEG API
7. Producing or Shut-In?	PRODUCING		PRODUCING
Production Marginal? (yes or no)	YES		NO
• If Shut-In, give data and oil/gas/water rates of last production	Date: Rates:	Date: Rates:	Date: Rates:
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)	Date: Rates: 4/98 60 MCFD 0 BCPD	Date: Rates:	Date: Rates: 4/98 275 MCFD 2 BCPD
8. Fixed Percentage Allocation Formula -% for each zone	Oil: 0 % Gas 19 %	Oil: % Gas %	Oil: 100 % Gas 81 %

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.
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-078201 NO COM AGREEMENT
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 Pamela W. Staley TITLE REGULATORY AFFAIRS ENGR DATE 6/2/98
TYPE OR PRINT NAME PAMELA W. STALEY TELEPHONE NO. (303) 830-5344

OFFSET OPERATORS

Florance O #20A

Burlington Resources Oil and Gas Co.
P.O. Box 4289
Farmington, NM 87499

Production Allocation Recommendation

Florance O #20A

Production is proposed to be allocated based on a percentage allocation. The production is based on the attached analysis of offset production.

Gas:	PC	60 MCFD	19%
	MV	275 MCFD	81%
Oil:	PC	0 BOPD	0%
	MV	2 BOPD	100%

Operator

Tenneco Oil Company

Lease

Florance

Well No.

20-A

Unit Letter

J

Section

24

Township

30-N

Range

9-W

County

San Juan

Actual Footage Location of Well:

1510

feet from the South

line and

2334

feet from the East

line

Ground Level Elev:

5820'

Producing Formation

Mesa Verde-Pictured Cliffs

Pool

Mesa Verde-Pictured Cliffs

Dedicated Acreage:

SE4/160

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?
One lease
☒ 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.

RECEIVED
JUN - 5 1968
OIL CON. DIV.
DIST. 3

2334'

1510'

CERTIFICATION

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

Name

R. C. Jewett

Position

Production Analyst

Company

Tenneco Oil Company

Date

4/16/79

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

ADMN 94794

Certificate No.

0 330 660 990 1320 1650 1980 2310 2640 2970 3300 3630 3960 4290 4620 4950 5280 5610 5940 6270 6600

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 FLORANCE		Well No. 20-A
Unit Letter J	Section 24	Township 30 NORTH	Range 9 WEST	County SAN JUAN
Actual Footage Location of Well: 1510 feet from the SOUTH line and 2334 feet from the EAST line				
Ground Level Elev. 5822 Graded	Producing Formation Blanco Mesa Verde	Pool Blanco Mesa Verde	Dedicated Acreage: E/348.55 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 communization, 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.)

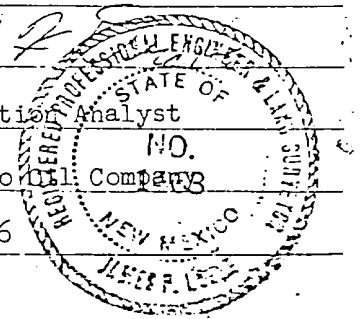
No allowable will be assigned to the well until all interests have been consolidated (by communization, unitization, forced-pooling, or otherwise) or until a non standard unit, eliminating such interests, has been approved by the Commission.

**PERMANENT FILE COPY
DO NOT REMOVE**

CERTIFICATION

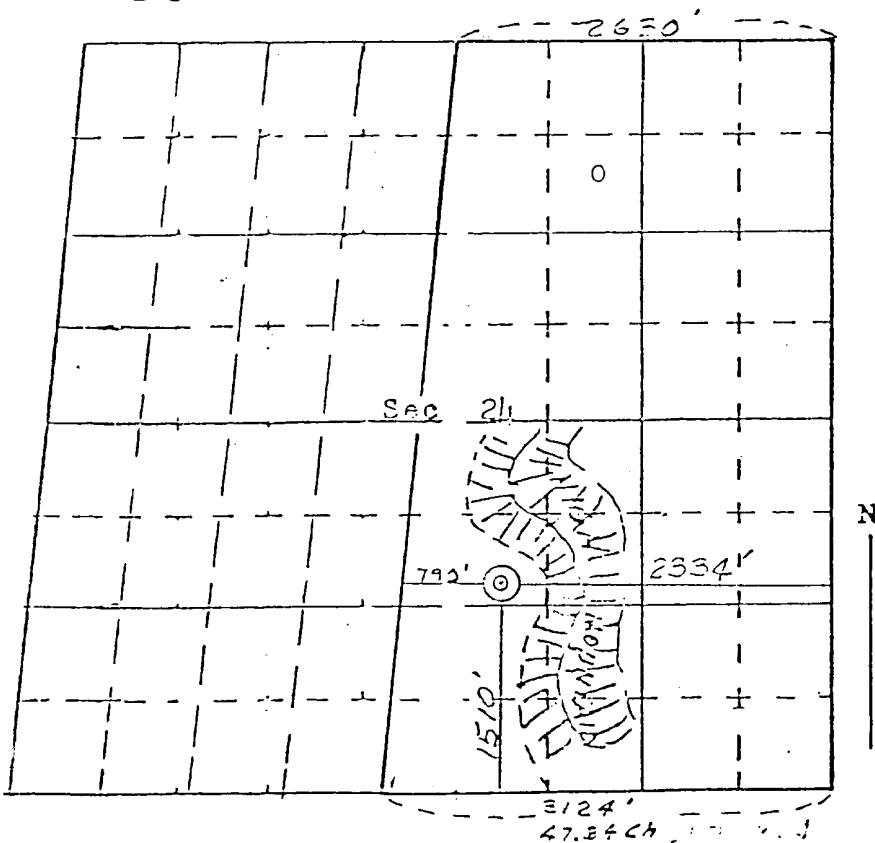
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name James P. Leese
 Position Production Analyst
 Company Tenneco Oil Company
 Date 12/9/76



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.

25 June, 1976
 Date Surveyed
James P. Leese
 Registered Professional Engineer
 and/or Land Surveyor
James P. Leese
1463
 Certificate No.



ADMN 94818

Operator TENNECO OIL COMPANY			Lease FLORANCE		Well No. 20-A
Unit Letter J	Section 24	Township 30 NORTH	Range 9 WEST	County SAN JUAN	
Actual Footage Location of Well: 1510 feet from the SOUTH line and 2334 feet from the EAST line					
Ground Level Elev. 5820	Producing Formation Blanco Mesa Verde		Pool Blanco Mesa Verde	Dedicated Acreage: E/348.55 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 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.

Name _____
 Position **Production Clerk**
 Company **Tenneco Oil Co.**
 Date **July 29, 1975**

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.

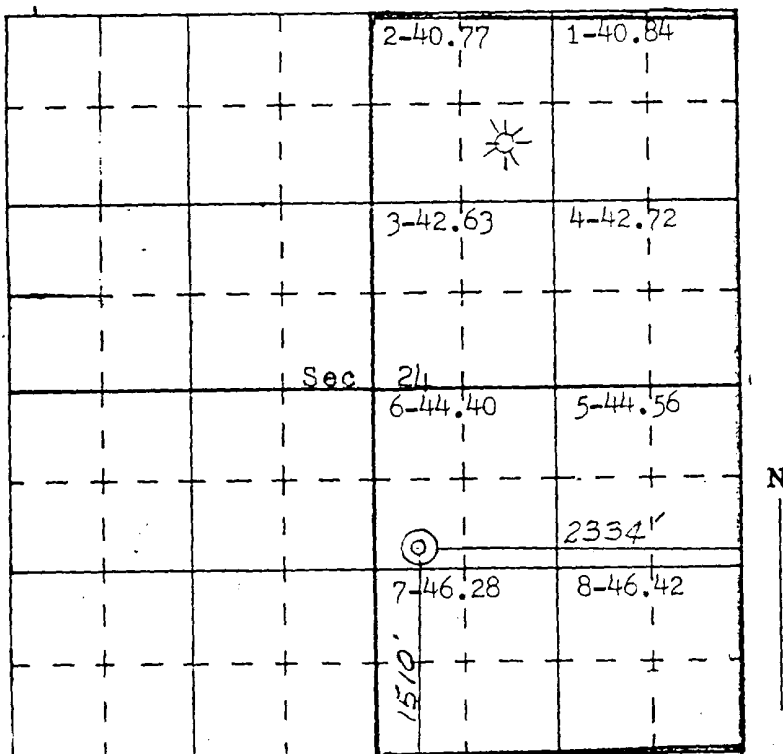
25 June, 1976
 Date Surveyed

 Registered Professional Engineer
 and/or Land Surveyor

James P. Lease

1463
 Certificate No.

ADMN 94823





STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE

April 23, 1979

1000 RIO BRAZOS ROAD
AZTEC, NEW MEXICO 87410
(505) 334-6178

BRUCE KING
GOVERNOR

LARRY KEHOE
SECRETARY

Tenneco Oil Co.
Galleria Bldg.
720 S. Colorado Blvd.
Denver, Colorado 80222

NWU 3- 798

SUBJECT: NON-STANDARD GAS PRORATION UNIT CONSISTING OF 181.66
ACRES IN THE Blanco Pictured Cliffs ext. GAS
POOL DESCRIBED AS FOLLOWS:

TOWNSHIP 30 NORTH, RANGE 9 WEST, NMPM

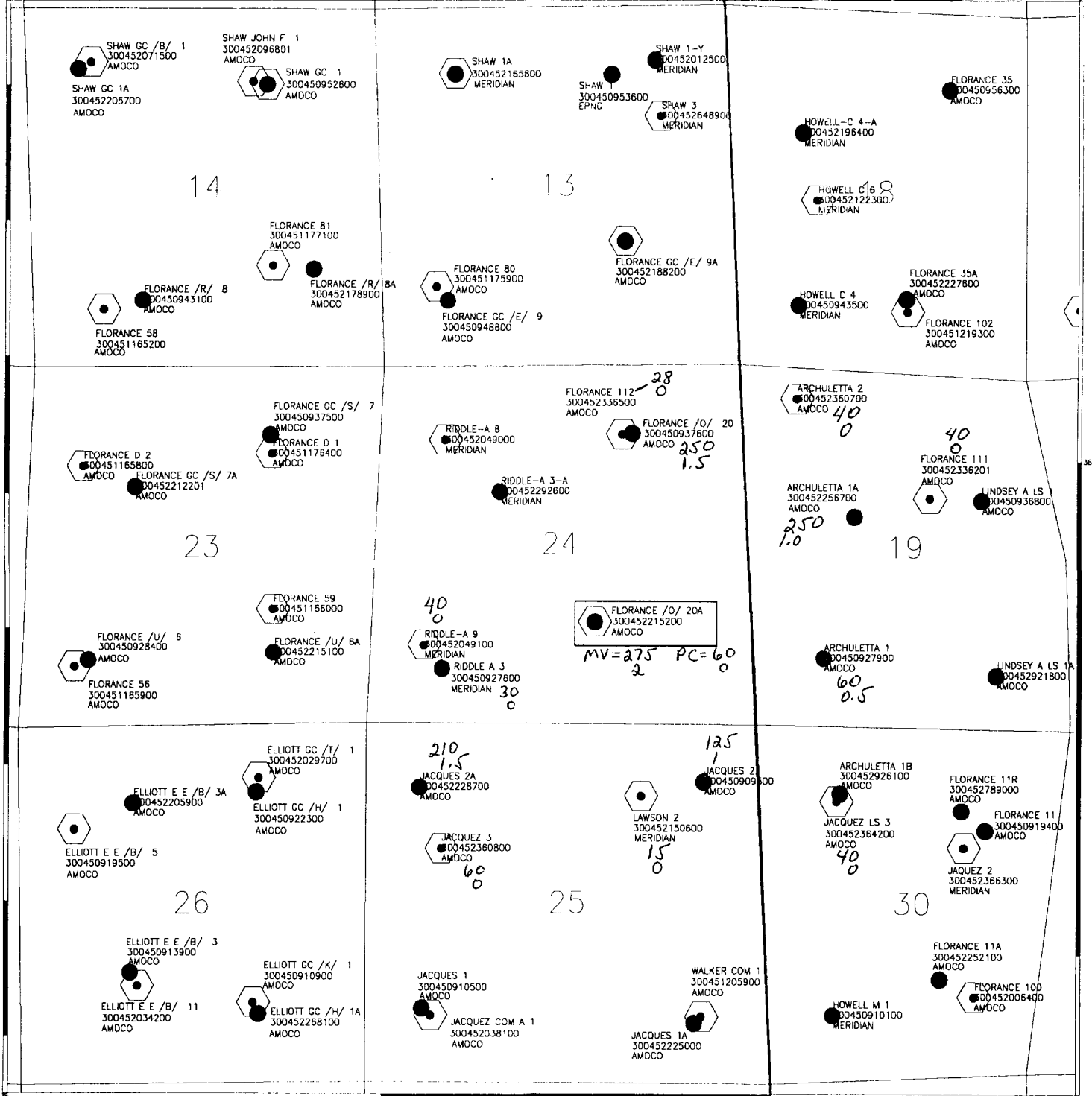
SECTION: 24 SE/4

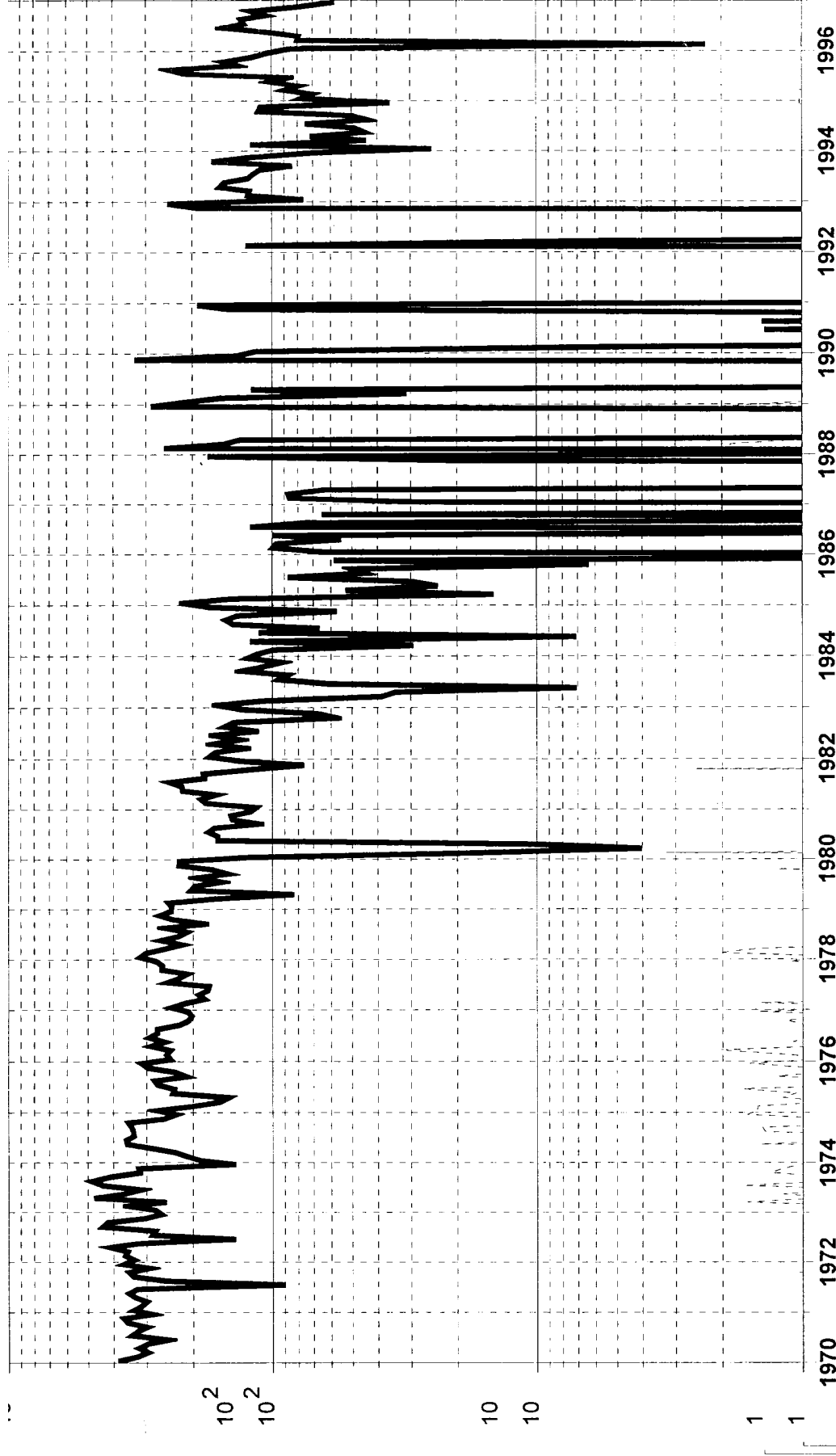
By authority granted me by Rule 5 (B) of Order R-1670, as amended, the above-
described acreage has been approved as a non-standard gas proration unit to
be dedicated to the Florance
well no. 20A, located 1510/S; 2334/E of said
Section 24.

AR Kendrick
Supervisor, District #3

xc: Oil Conservation Division
Santa Fe, New Mexico

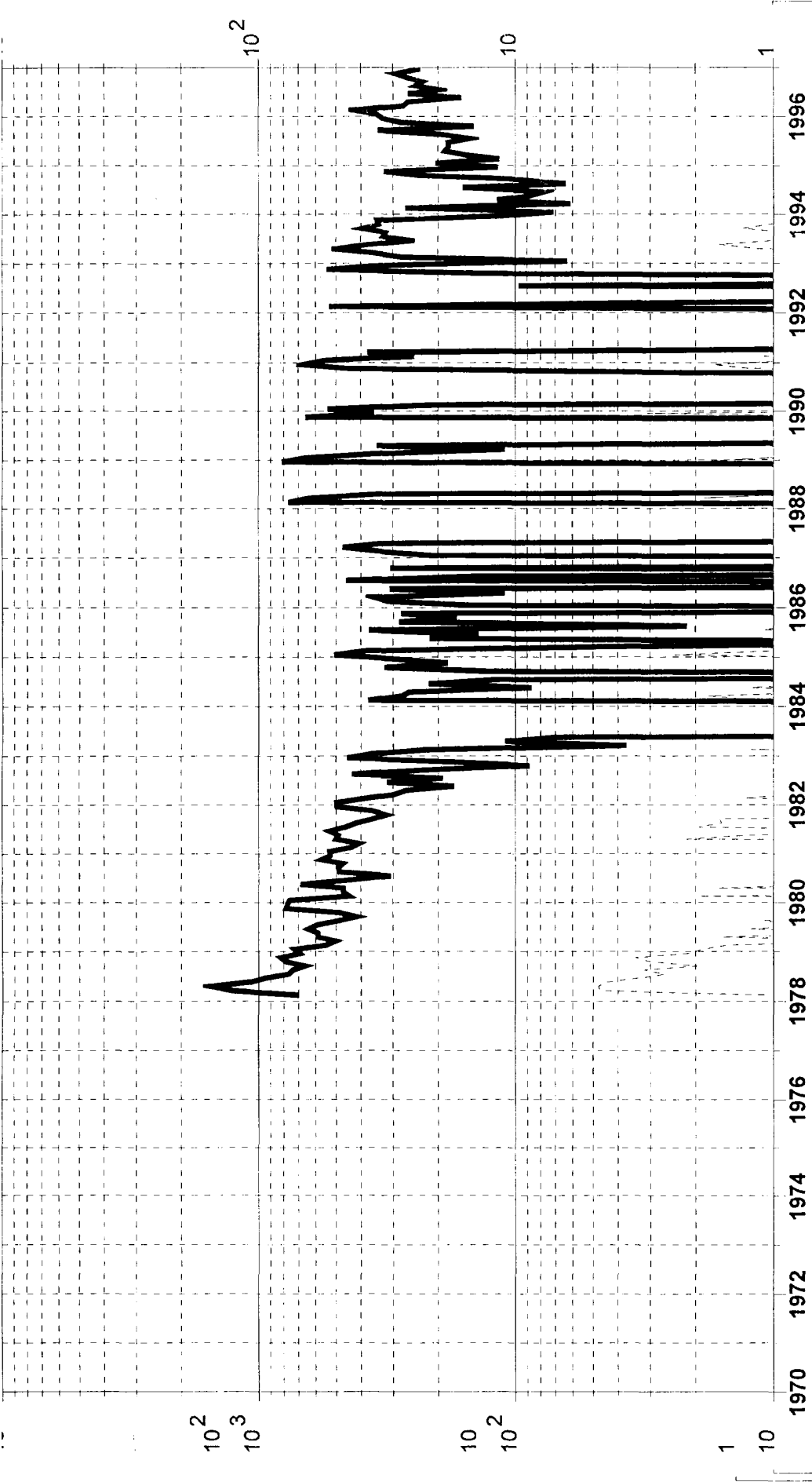
ADMN 94738





County: SAN JUAN, NM	F.P. Date: 12/56
Field: BLANCO (MESAVERDE) MV	Oil Cum: 9603 bbl
API #: 30-045-0927900	Gas Cum: 3179 mmcf
Operator: AMOCO PRODUCTION CO	Location: 19N 30N 8W

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



Gas (mcf/day)

Oil (bbl/day)

Water (bbl/day)

County: SAN JUAN, NM
Field: BLANCO (MESAVERDE) MV
API #: 30-045-2256700
Operator: AMOCO PRODUCTION CO
F.P. Date: 02/78
Oil Cum: 3670 bbl
Gas Cum: 1943 mmcf
Location: 19F 30N 8W

Dwights

Lease: JACQUES (2A)

04/08/98

Retrieval Code: 251,045,30N09W25D00MV

10³
10³

10²
10²

10
10

1
1

Gas (mcf/day)

Oil (bbl/day)

Water (bbl/day)

County: SAN JUAN, NM
Field: BLANCO (MESAVERDE) MV
API #: 30-045-2228700
Operator: AMOCO PRODUCTION CO

F.P. Date: 01/78
Oil Cum: 1853 bbl
Gas Cum: 1160 mmcf
Location: 25D 30N 9W

1970 1972 1974 1976 1978 1980 1982 1984 1986 1988 1990 1992 1994 1996

Dwights

Lease: JACQUES (2)

04/08/98

Retrieval Code: 251,045,30N09W25A00MV

10³
10³

10²
10²

10
10

1
1

Gas (mcf/day)

Oil (bbl/day)

County: SAN JUAN, NM

Field: BLANCO (MESAVERDE) MV

API #: 30-045-0909500

Operator: AMOCO PRODUCTION CO

F.P. Date: 12/56

Oil Cum: 8739 bbl

Gas Cum: 3932 mmcf

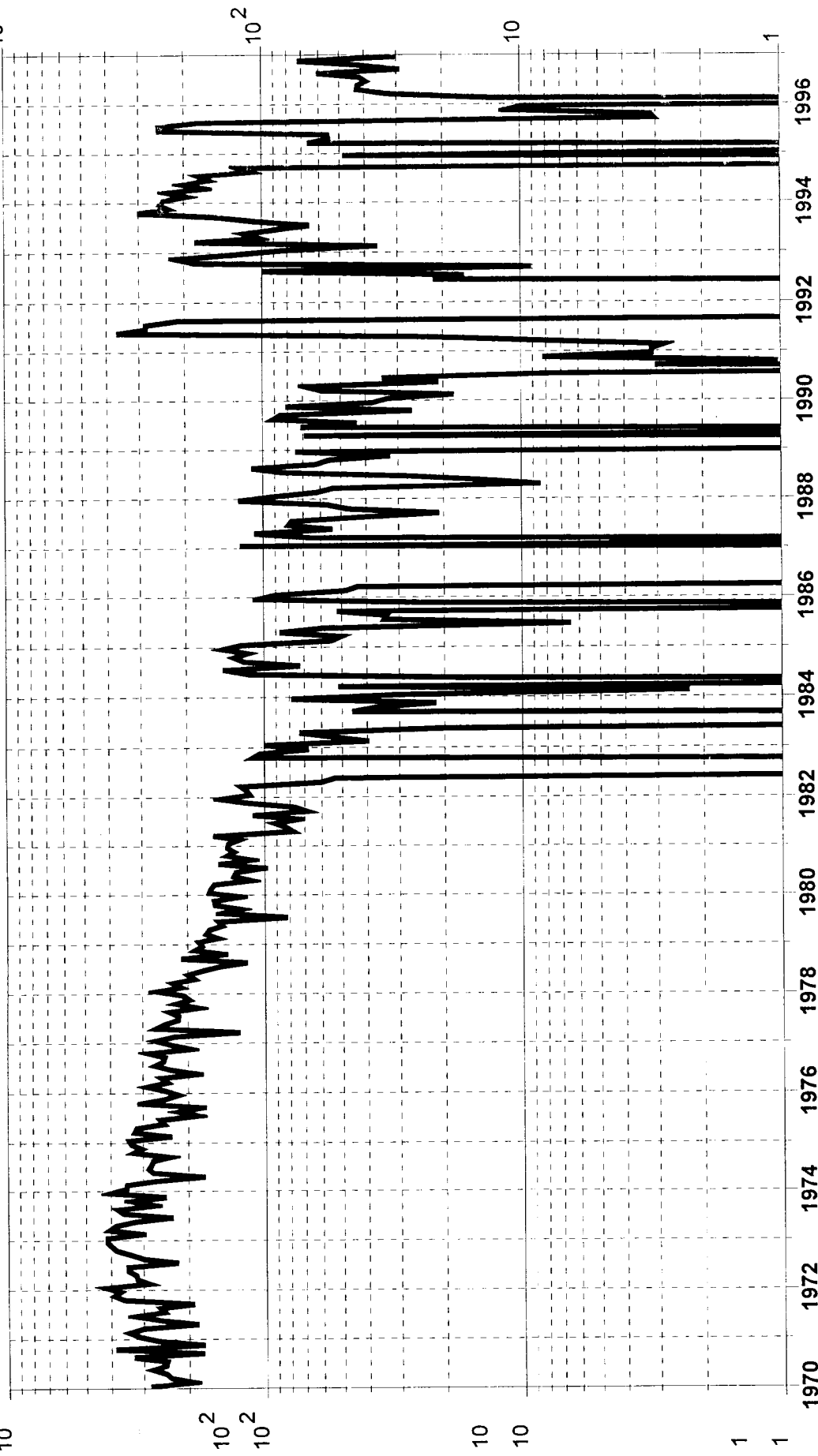
Location: 25A 30N 9W

Water (bbl/day)

1970 1972 1974 1976 1978 1980 1982 1984 1986 1988 1990 1992 1994 1996

Dwights

Lease: RIDDLE A (3) Retrieval Code: 251,045,30N09W24M00MV 04/08/98



County: SAN JUAN, NM	F.P. Date: 02/55	Water (bbl/day)
Field: BLANCO (MESAVERDE) MV	Oil Cum: 298 bbl	
API #: 30-045-0927600	Gas Cum: 2187 mmcf	
Operator: BURLINGTON RES O&G CO	Location: 24M 30N 9W	

Dwights

Lease: FLORANCE O (20A)

04/08/98

Retrieval Code: 251,045,30N09W24J00MV

10³
10³

10²
10²

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10

1
1

Gas (mcf/day)

Oil (bbl/day)

County: SAN JUAN, NM

Field: BLANCO (MESAVERDE) MV

API #: 30-045-2215200

Operator: AMOCO PRODUCTION CO

F.P. Date: 02/77

Oil Cum: 4463 bbl

Gas Cum: 1628 mmcf

Location: 24J 30N 9W

Water (bbl/day)

1970 1972 1974 1976 1978 1980 1982 1984 1986 1988 1990 1992 1994 1996

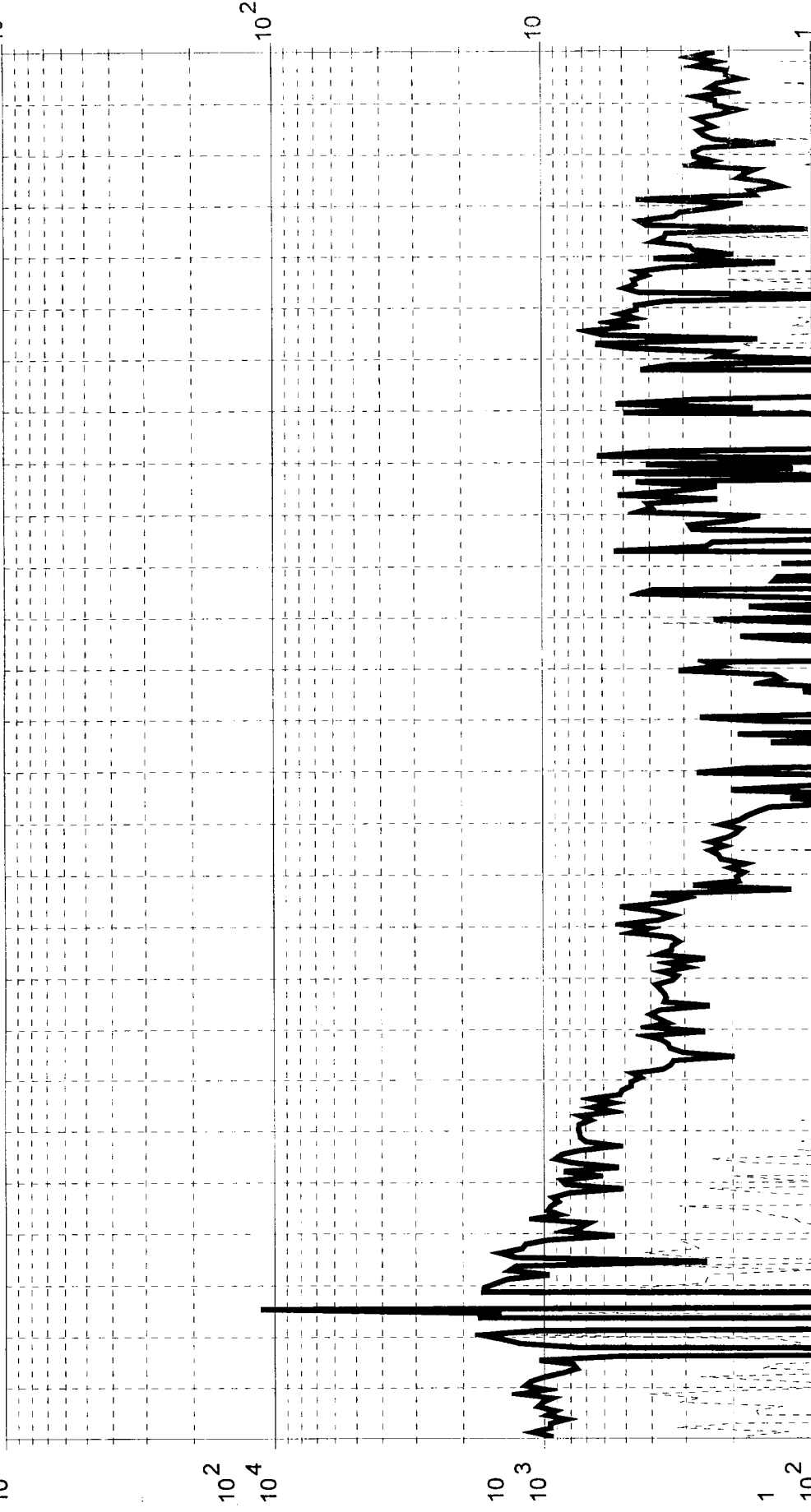
Dwights

Lease: FLORANCE O (20)

Retrieval Code: 251,045,30N09W24B00MV

04/08/98

10³
10⁵
10²
10⁴
10³
10²
10¹
10⁰



Gas (mcf/day)

Oil (bbl/day)

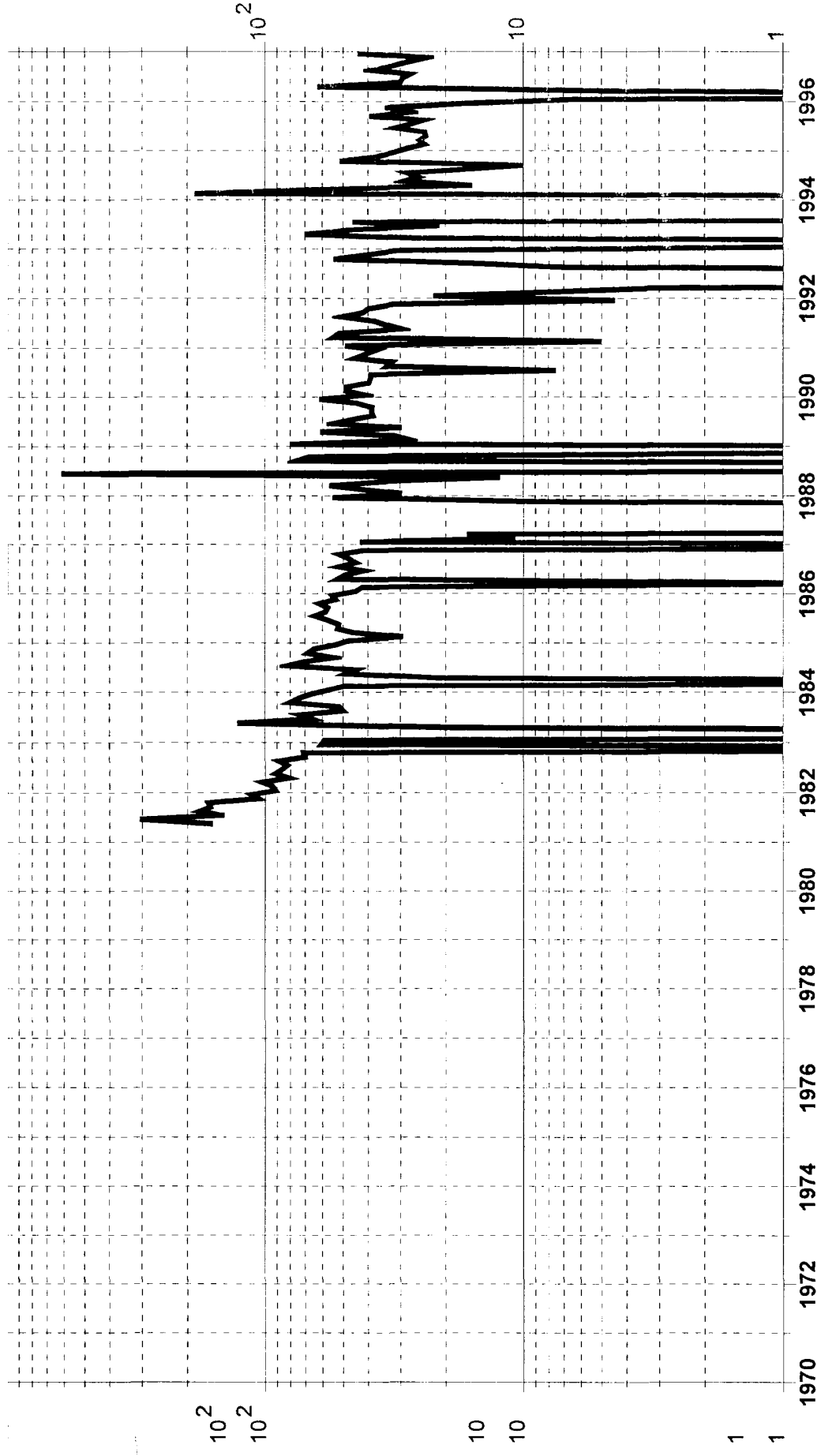
Water (bbl/day)

County: SAN JUAN, NM F.P. Date: N/A

Field: BLANCO (MESAVERDE) MV Oil Cum: 21.80 mbbl

API #: 30-045-0937600 Gas Cum: 11.84 bcf

Operator: AMOCO PRODUCTION CO Location: 24B 30N 9W



County: SAN JUAN, NM	F.P. Date: 05/81
Field: BLANCO (PICTURED CLIFFS) P	Oil Cum: 0 bbl
API #: 30-045-2364200	Gas Cum: 271.8 mmcf
Operator: AMOCO PRODUCTION CO	Location: 30C 30N 8W

Water (bbl/day)

Gas (mcf/day)

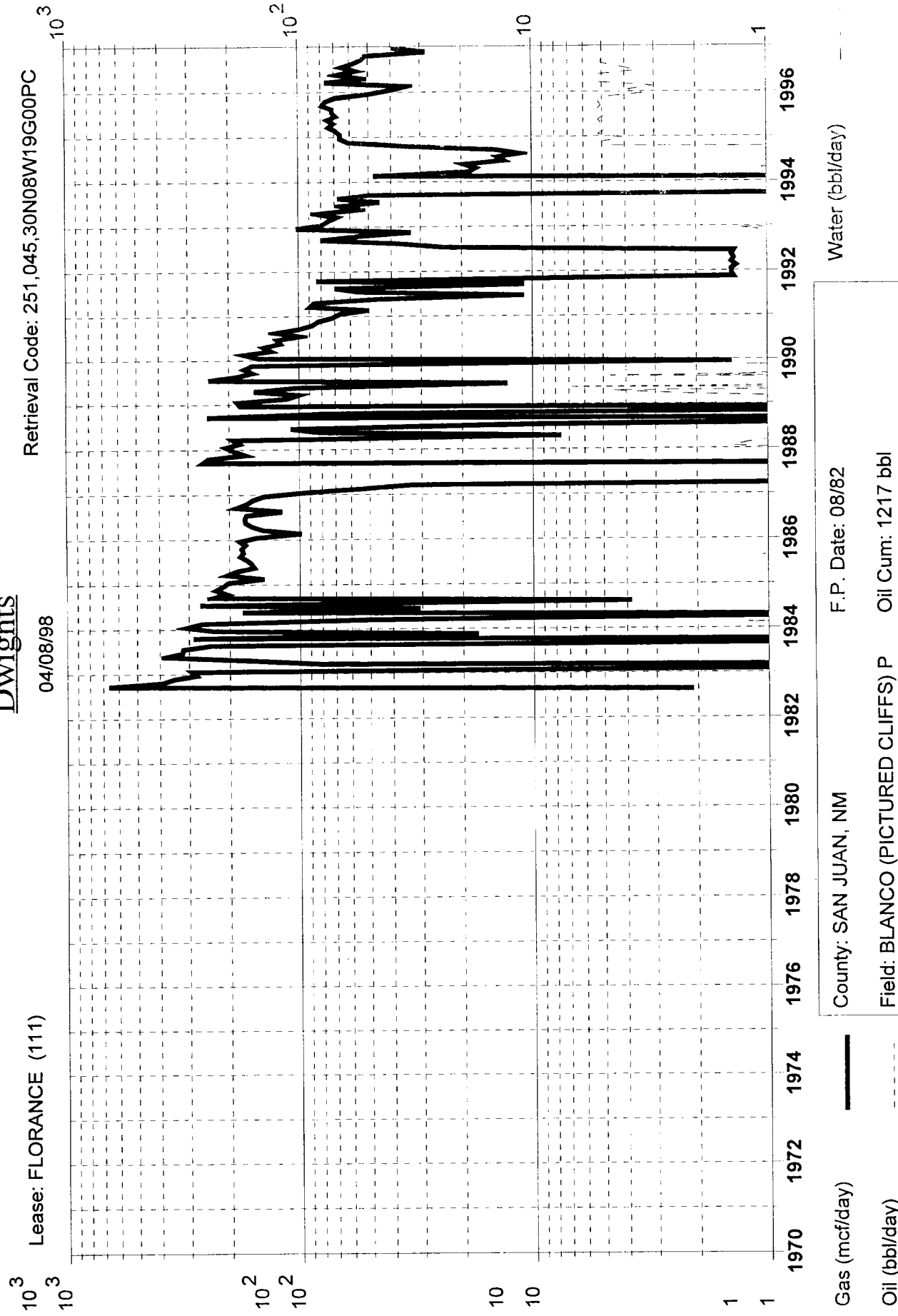
Oil (bbl/day)

Dwights

Lease: FLORANCE (111)

04/08/98

Retrieval Code: 251,045,30N08W19G00PC



Gas (mcf/day)

Oil (bbl/day)

County: SAN JUAN, NM

F.P. Date: 08/82

Field: BLANCO (PICTURED CLIFFS) P

Oil Cum: 1217 bbl

API #: 30-045-2336200

Gas Cum: 573.9 mmcf

Operator: AMOCO PRODUCTION CO

Location: 19G 30N 8W

Water (bbl/day)

Dwights

Lease: ARCHULETA (2)

04/08/98

Retrieval Code: 251,045,30N08W19C00PC

10³
10³

10²
10²

10
10

1
1

Gas (mcf/day)

Oil (bbl/day)

—

County: SAN JUAN, NM

Field: BLANCO (PICTURED CLIFFS) P

API #: 30-045-2360700

Operator: AMOCO PRODUCTION CO

F.P. Date: 09/80

Oil Cum: 580 bbl

Gas Cum: 313.4 mmcf

Location: 19C 30N 8W

Water (bbl/day)

1970 1972 1974 1976 1978 1980 1982 1984 1986 1988 1990 1992 1994 1996

Dwights

Lease: JACQUES (3)

Retrieval Code: 251,045,30N09W25E00PC

04/08/98

10³
10³
10³

10²
10²
10²

10
10

1
1

1970 1972 1974 1976 1978 1980 1982 1984 1986 1988 1990 1992 1994 1996

Gas (mcf/day)

Oil (bbl/day)

Water (bbl/day)

F.P. Date: 01/82

Oil Cum: 0 bbl

Gas Cum: 444.9 mmcf

Location: 25E 30N 9W

County: SAN JUAN, NM

Field: BLANCO (PICTURED CLIFFS) P

API #: 30-045-2360800

Operator: AMOCO PRODUCTION CO

Dwights

Lease: LAWSON (2)

Retrieval Code: 251,045,30N09W25B00PC

04/08/98

10³
10³
10³

10²
10²
10²

10
10
10

1
1
1

1970 1972 1974 1976 1978 1980 1982 1984 1986 1988 1990 1992 1994 1996

Gas (mcf/day)

Oil (bbl/day)

Water (bbl/day)

County: SAN JUAN, NM
Field: BLANCO (PICTURED CLIFFS) P
API #: 30-045-2150600
Operator: BURLINGTON RES O&G CO
F.P. Date: 11/74
Oil Cum: 0 bbl
Gas Cum: 264.9 mmcf
Location: 25B 30N 9W

Dwights

Lease: RIDDLE A (9)

Retrieval Code: 251,045,30N09W24M00PC

04/08/98

10³
10³

10²
10²

10
10

1
1

Gas (mcf/day)

Oil (bbl/day)

Water (bbl/day)

F.P. Date: 07/69

Oil Cum: 93 bbl

Gas Cum: 782.8 mmcf

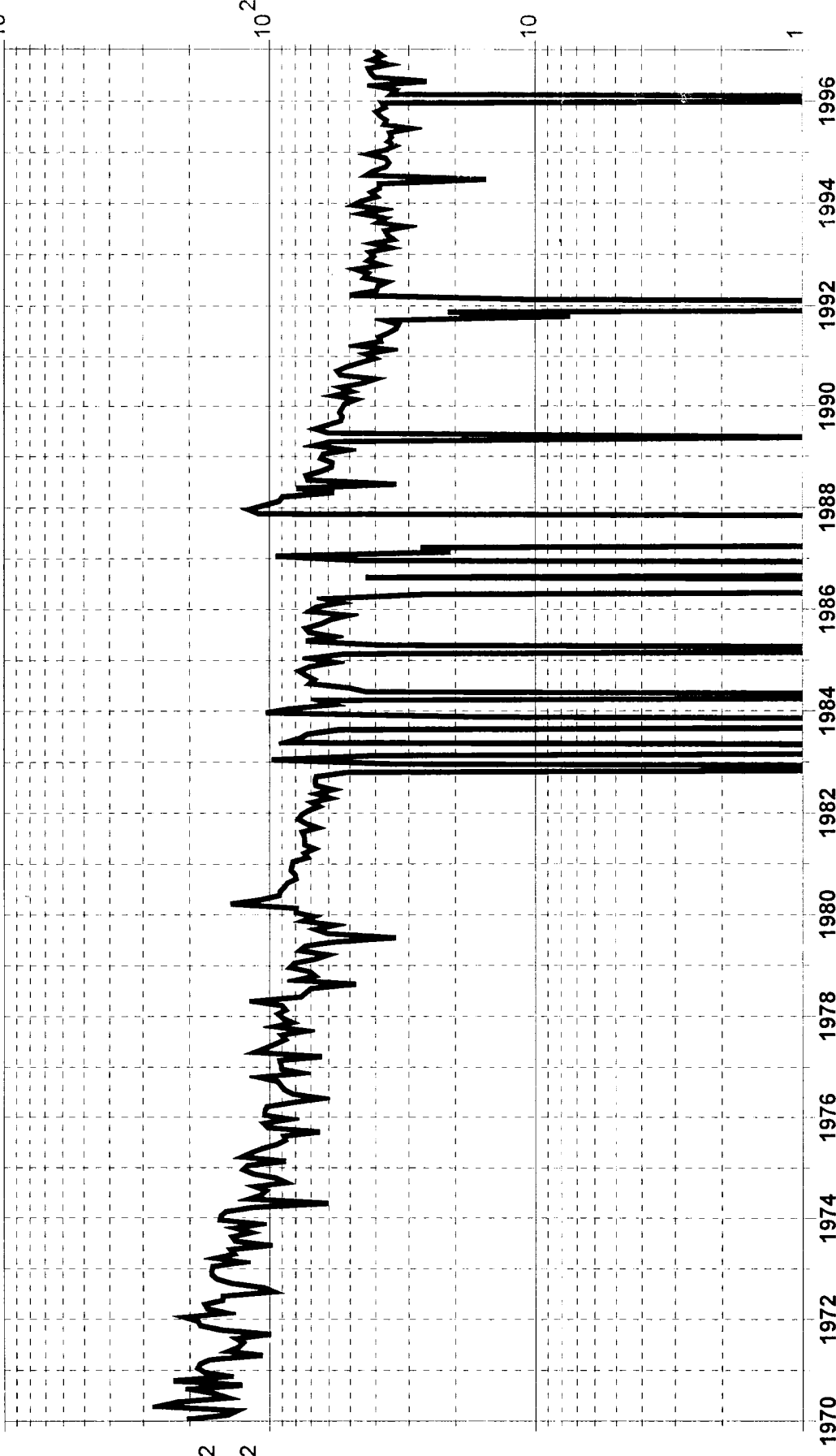
Location: 24M 30N 9W

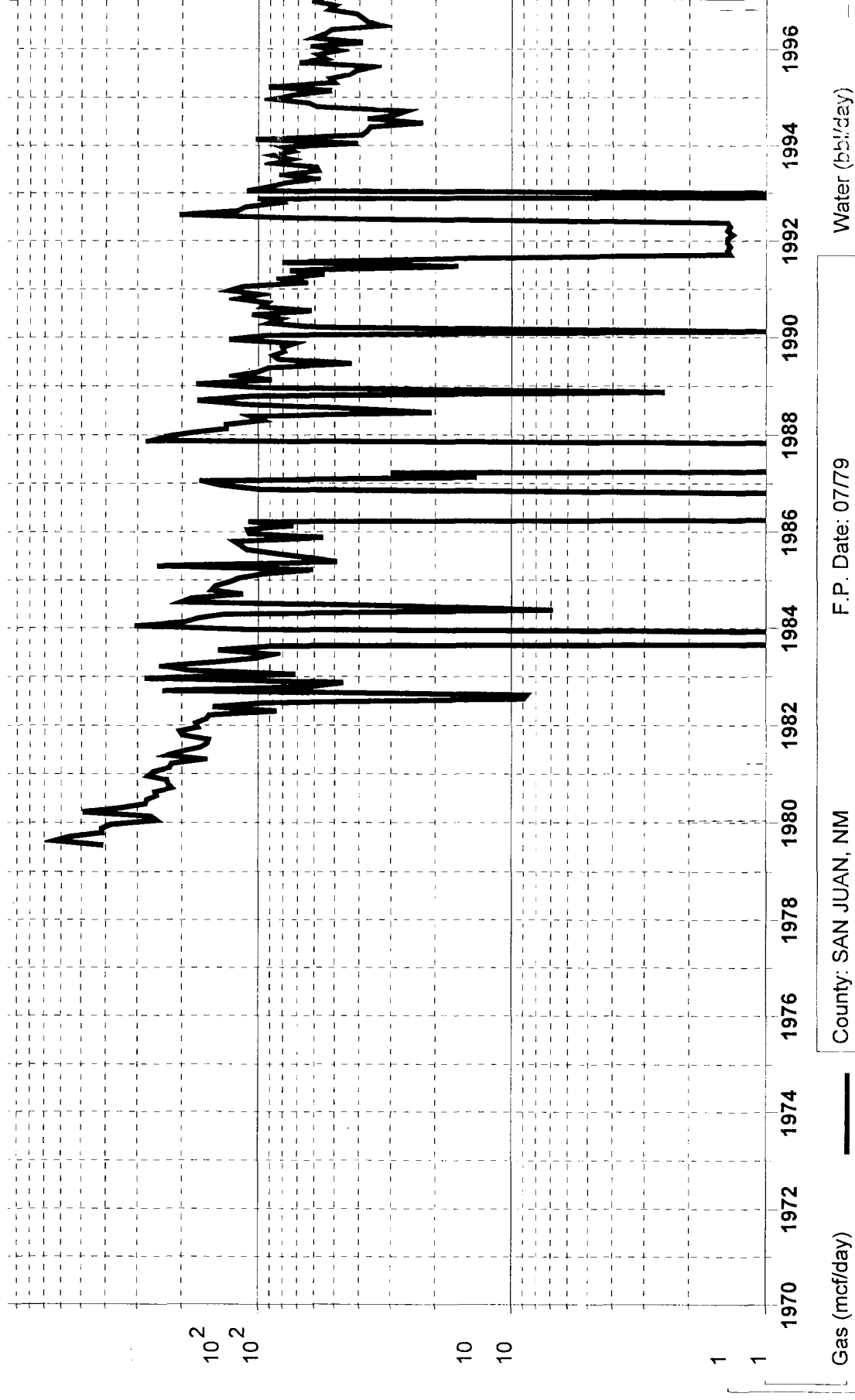
County: SAN JUAN, NM

Field: BLANCO (PICTURED CLIFFS) P

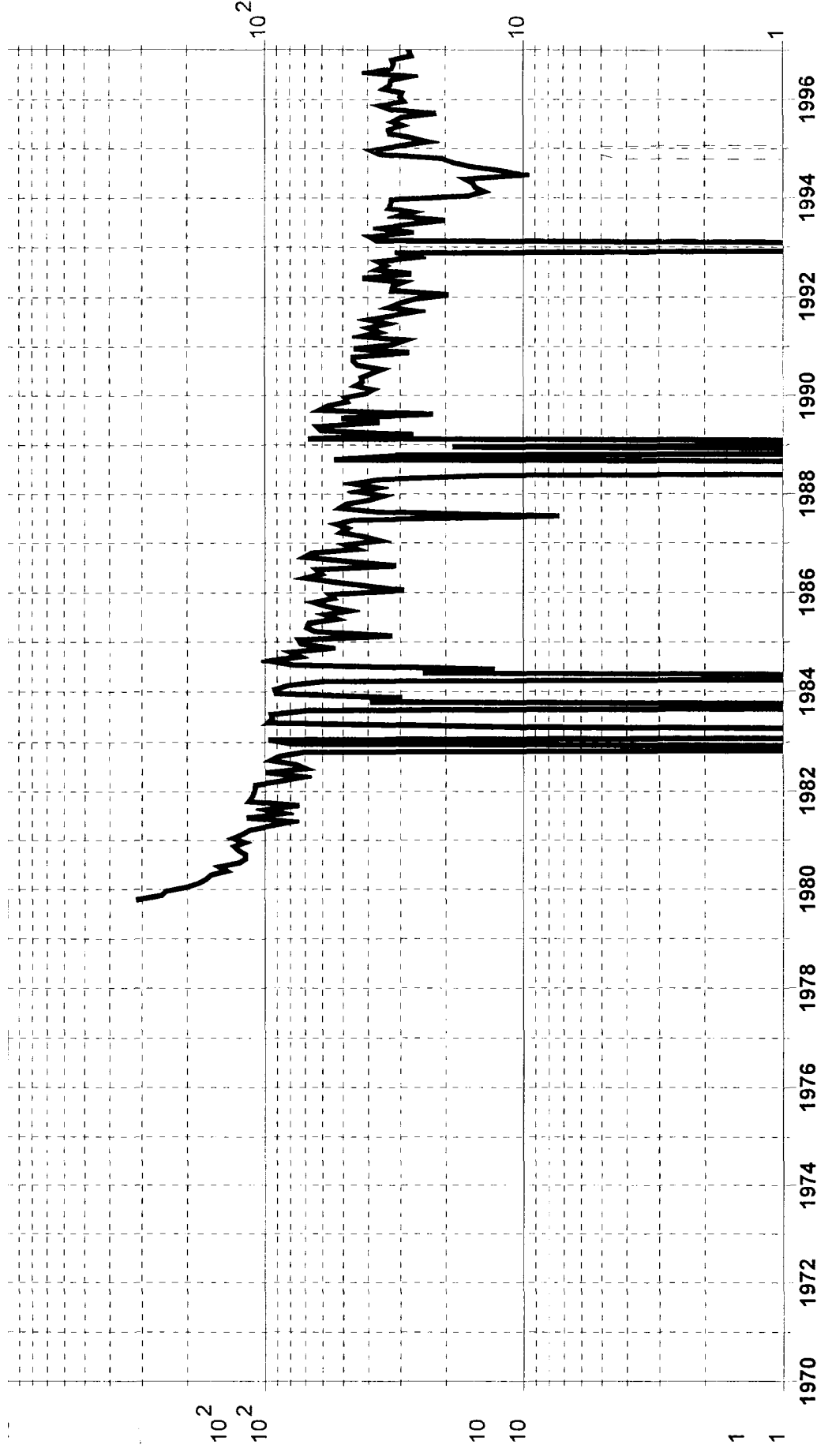
API #: 30-045-2049100

Operator: BURLINGTON RES O&G CO





County: SAN JUAN, NM	F.P. Date: 07/79
Field: BLANCO (PICTURED CLIFFS) P	Oil Cum: 202 bbl
API #: 30-045-2215200	Gas Cum: 703.0 mmcf
Operator: AMOCO PRODUCTION CO	Location: 24J 30N 9W



County: SAN JUAN, NM
Field: BLANCO (PICTURED CLIFFS) P
API #: 30-045-2336500
Operator: AMOCO PRODUCTION CO

F.P. Date: 10/79
Oil Cum: 0 bbl
Gas Cum: 349.3 mmcf
Location: 24B 30N 9W

Gas (mcf/day)

Oil (bbl/day)

Water (bbl/day)

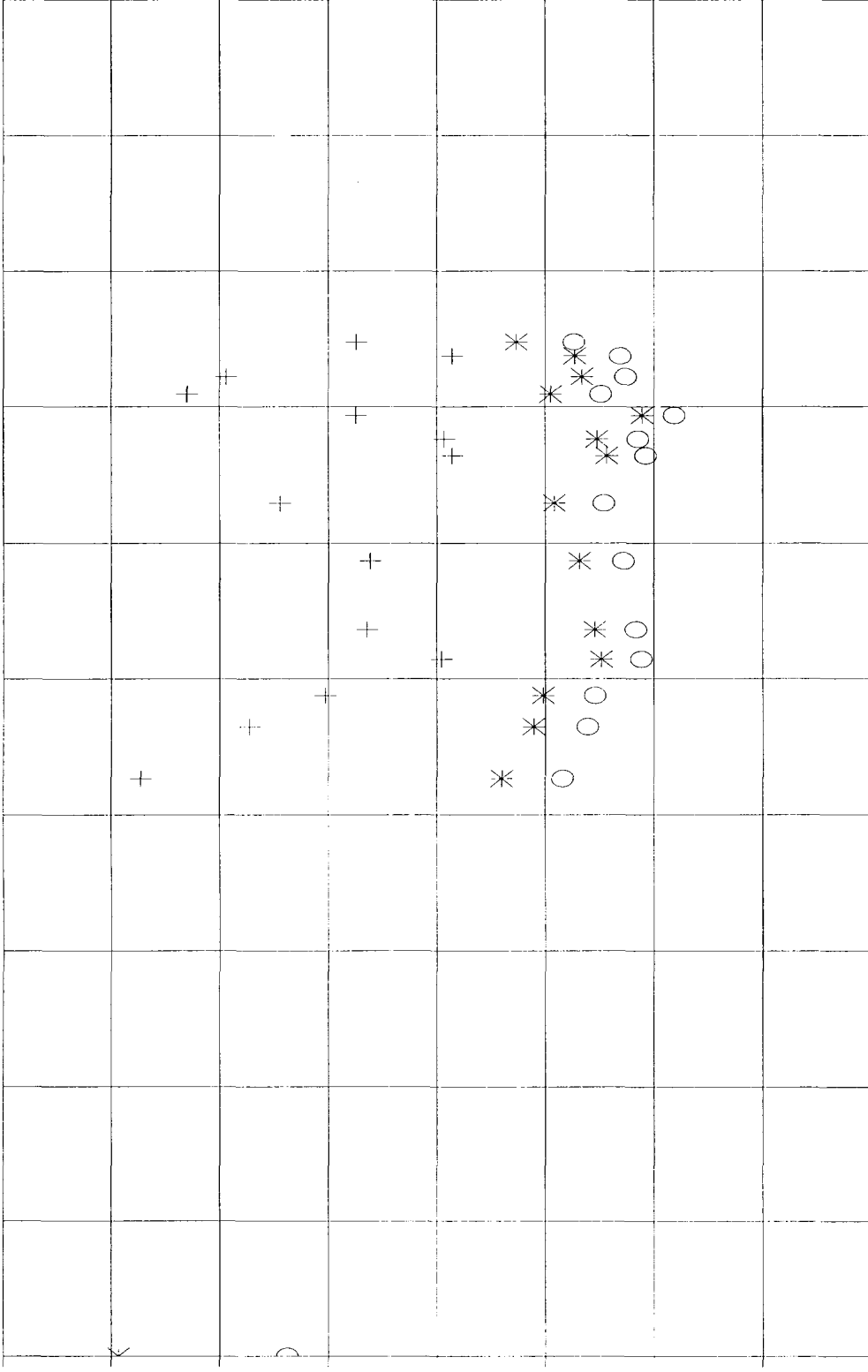
Dwights

Lease: ARCHULETA (1)

04/08/98

Retrieval Code: 251,045,30N08W19N00MV

1600
1600
1400
1400
1200
1200
1000
1000
800
800
600
600
400
400
200
200
0
0



BHP/Z

WHSIP

*
O

County: SAN JUAN, NM

Field: BLANCO (MESAVARDE) MV

API #: 30-045-0927900

Operator: AMOCO PRODUCTION CO

F.P. Date: 12/56

Oil Cum: 9603 bbl

Gas Cum: 3179 mmcf

Location: 19N 30N 8W

WHFP

Gas(N

Dwights

Lease: ARCHULETA (1A)

04/08/98

Retrieval Code: 251,045,30N08W19F00MV

720

8

630

7

540

6

450

5

360

4

270

3

180

2

90

1

0

0

BHP/Z

WHSIP

✖

○

County: SAN JUAN, NM

Field: BLANCO (MESAVERDE) MV

API #: 30-045-2256700

Operator: AMOCO PRODUCTION CO

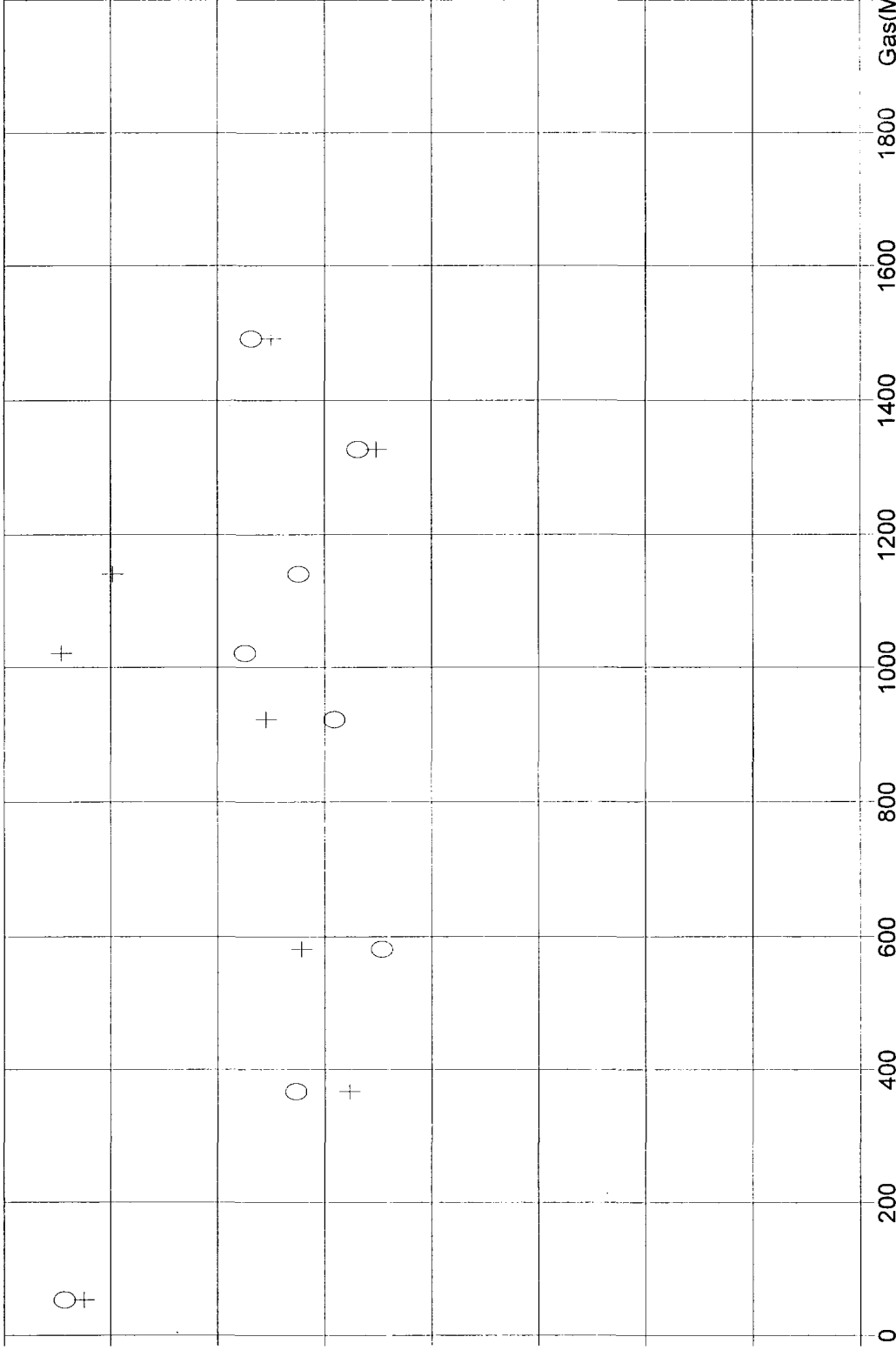
F.P. Date: 02/78

Oil Cum: 3670 bbl

Gas Cum: 1943 mmcf

Location: 19F 30N 8W

WHFP



0 200 400 600 800 1000 1200 1400 1600 1800 2000 Gas(M

Dwights

Lease: JACQUES (2A)

04/08/98

Retrieval Code: 251,045,30N09W25D00MV

560

8

490

7

420

6

350

5

280

4

210

3

140

2

70

1

0

0

BHP/Z

WHSIP

0

70

140

210

280

350

420

490

560

630

Gas(M

*

○

WHFP

County: SAN JUAN, NM

F.P. Date: 01/78

Field: BLANCO (MESAVARDE) MV

Oil Cum: 1853 bbl

API #: 30-045-2228700

Gas Cum: 1160 mmcf

Operator: AMOCO PRODUCTION CO

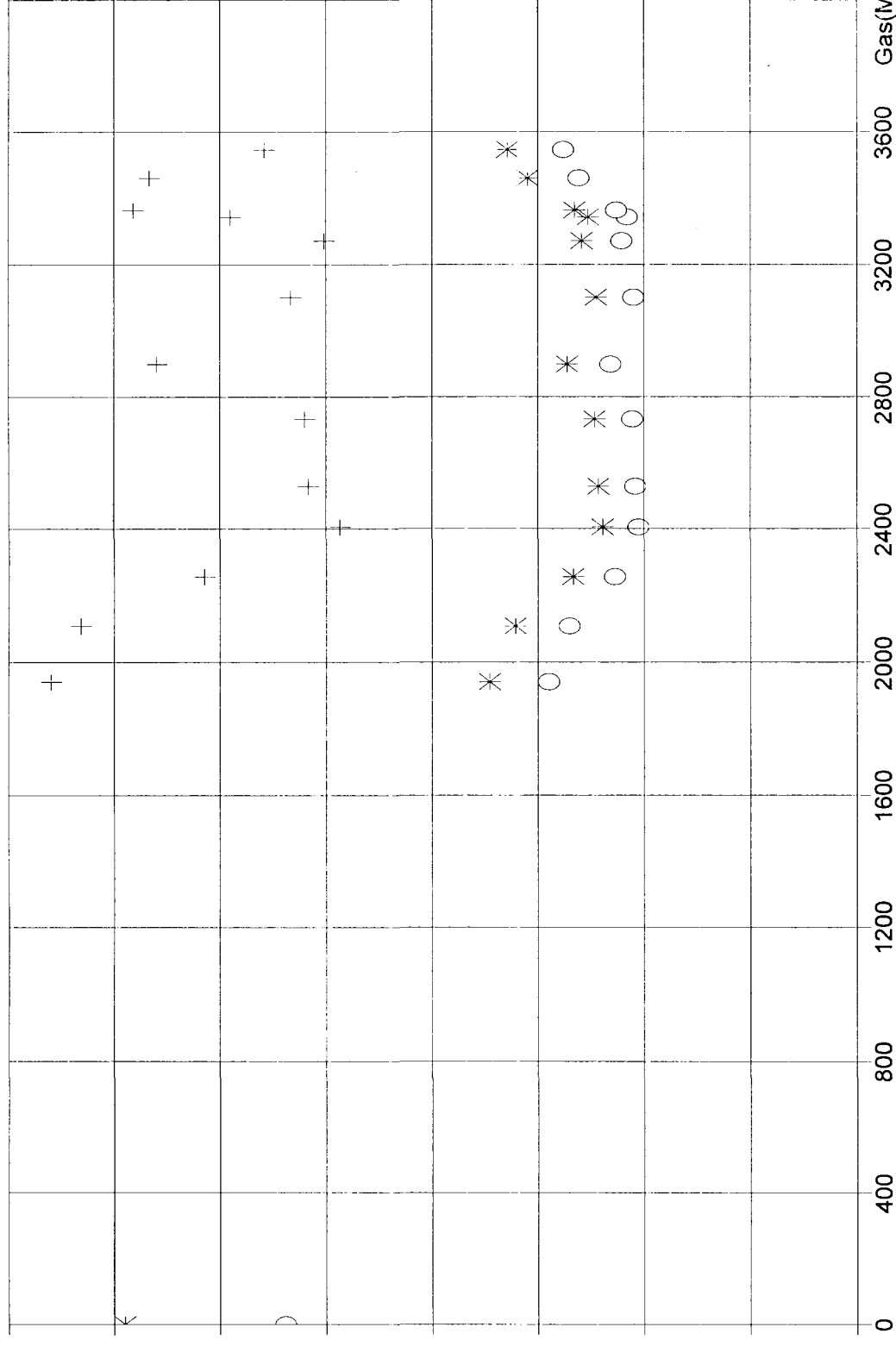
Location: 25D 30N 9W

Dwights

Lease: JACQUES (2)

04/08/98

Retrieval Code: 251,045,30N09W25A00MV



BHP/Z

F.P. Date: 12/56

County: SAN JUAN, NM

WHSIP

Field: BLANCO (MESAVERDE) MV

Oil Cum: 8739 bbl

Gas Cum: 3932 mmcf

API #: 30-045-0909500

Location: 25A 30N 9W

Operator: AMOCO PRODUCTION CO

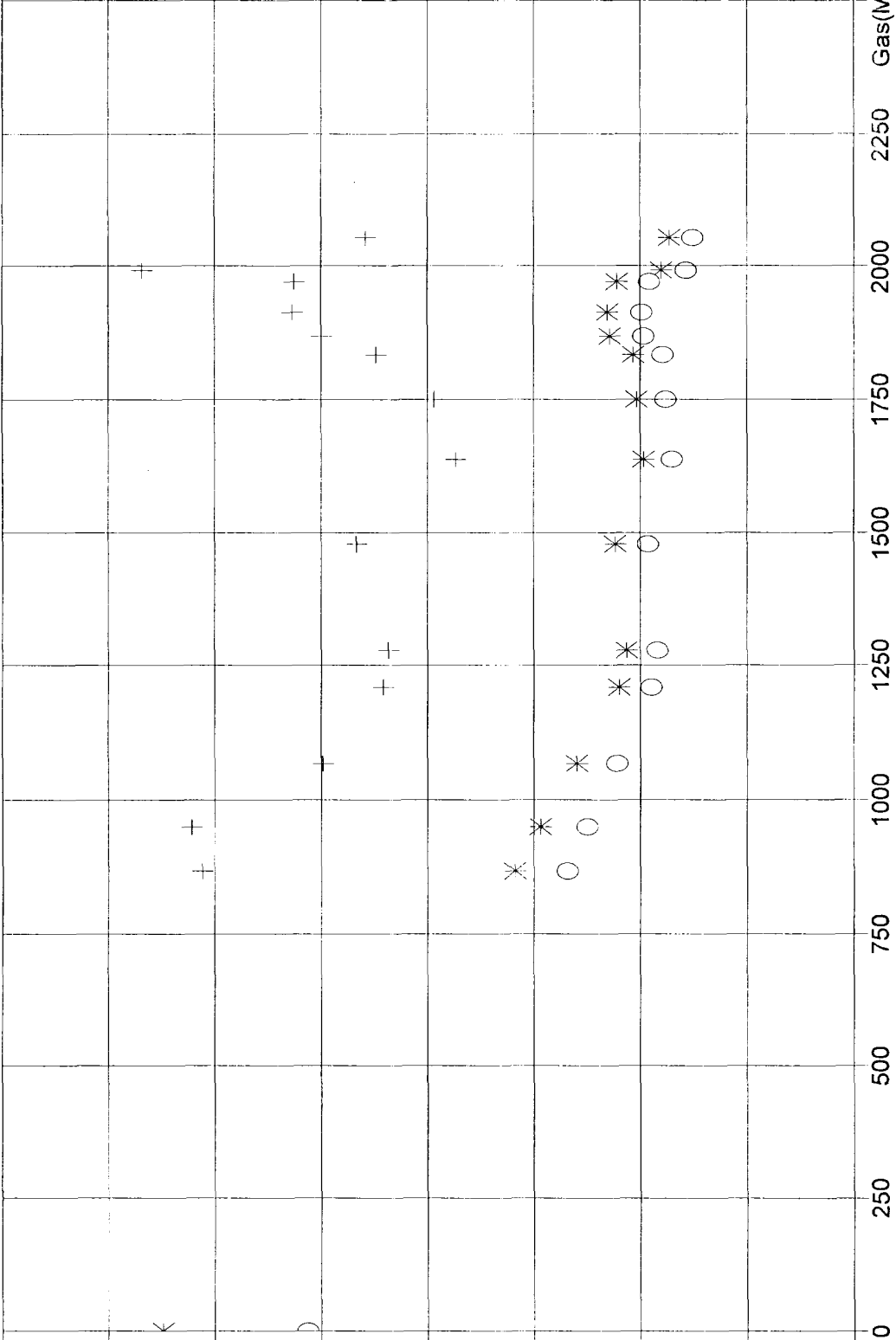
WHEP

Dwights

Lease: RIDDLE A (3)

Retrieval Code: 251,045,30N09W24M00MV

04/08/98



County: SAN JUAN, NM	F.P. Date: 02/55
Field: BLANCO (MESAVERDE) MV	Oil Cum: 298 bbl
API #: 30-045-0927600	Gas Cum: 2187 mmcf
Operator: BURLINGTON RES O&G CO	Location: 24M 30N 9W

BHP/Z

WHSIP

WHFP

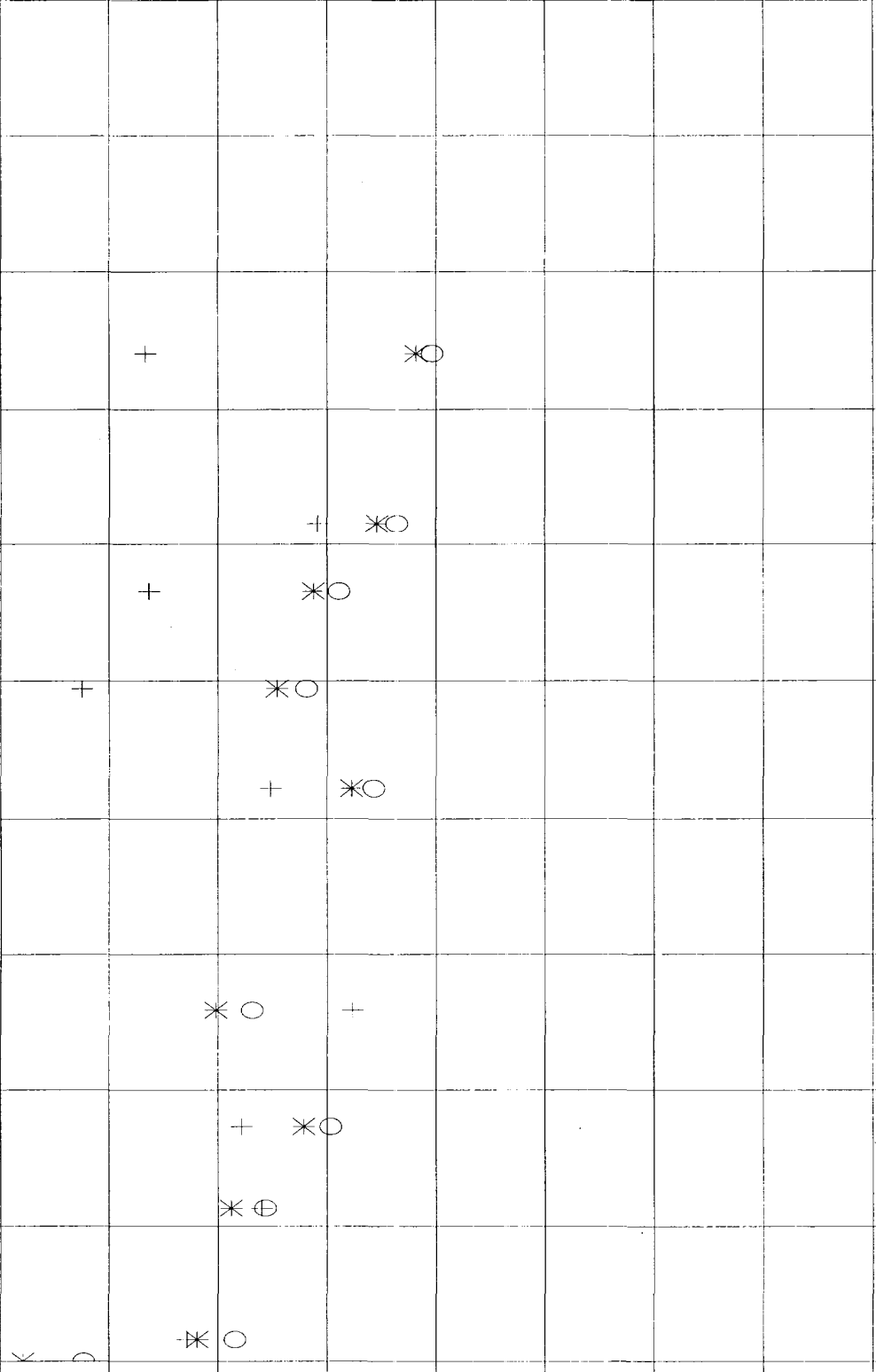
Dwights

Lease: FLORANCE O (20A)

04/08/98

Retrieval Code: 251,045,30N09W24J00MV

720
800
630
700
540
600
450
500
360
400
270
300
180
200
90
100
0
0



Dwights

Lease: FLORANCE O (20)

Retrieval Code: 251,045,30N09W24B00MV

04/08/98

1600

1600

1400

1400

1200

1200

1000

1000

800

800

600

600

400

400

200

200

0

0

BHP/Z

WHSIP

0 1.5 3.0 4.5 6.0 7.5 9.0 10.5 12.0 13.5 Gas(

*

o

County: SAN JUAN, NM

F.P. Date: N/A

Field: BLANCO (MESAVARDE) MV

Oil Cum: 21.80 mmbbl

API #: 30-045-0937600

Gas Cum: 11.84 bcf

Operator: AMOCO PRODUCTION CO

Location: 24B 30N 9W

WHFP

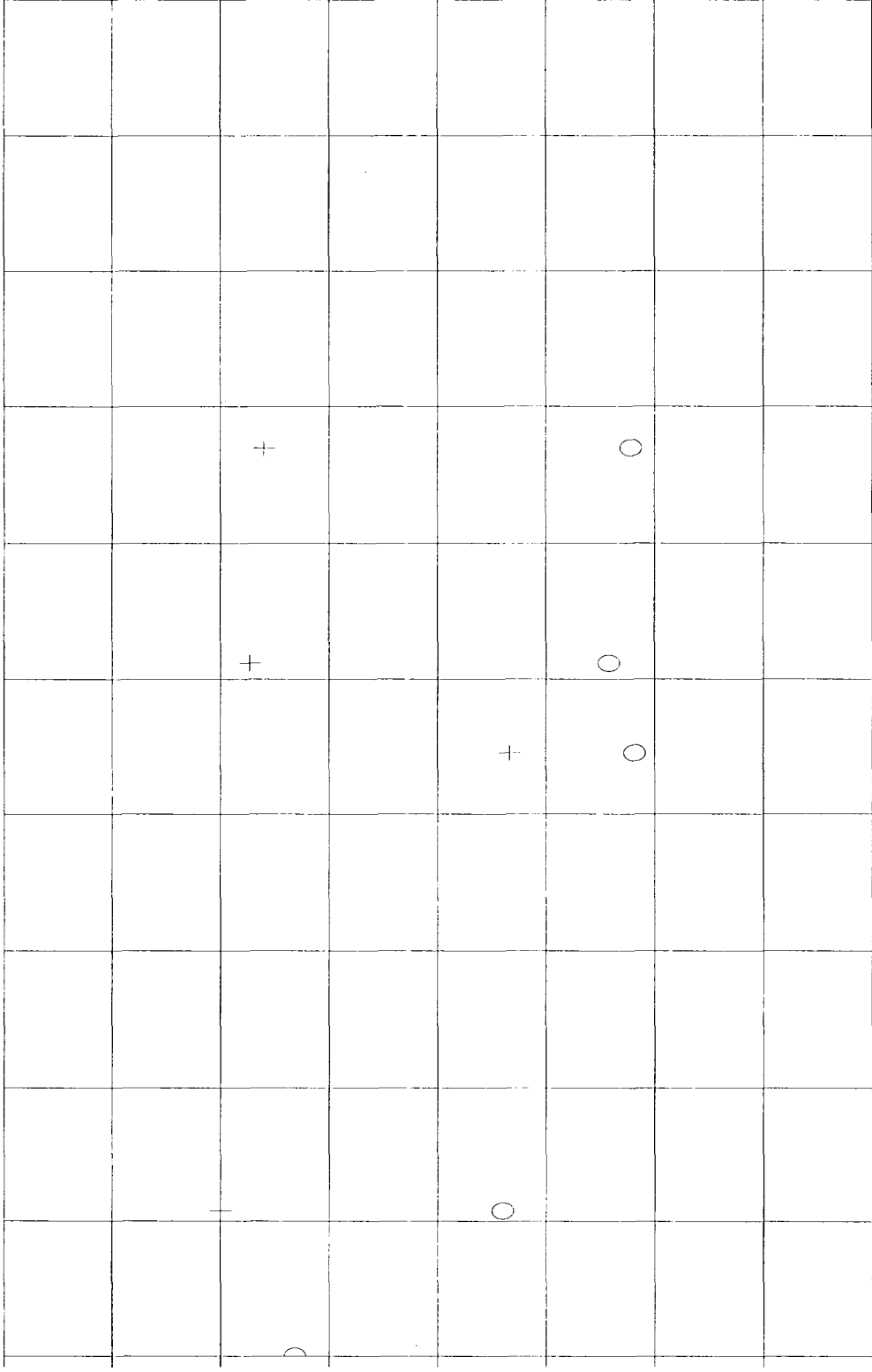
Dwights

Lease: JACQUEZ LS (3)

Retrieval Code: 251,045,30N08W30C00PC

04/08/98

1600
8
1400
7
1200
6
1000
5
800
4
600
3
400
2
200
1
0
0



Dwights

Lease: FLORANCE (111)

Retrieval Code: 251,045,30N08W19G00PC

04/08/98

640

8

560

7

480

6

400

5

320

4

240

3

160

2

80

1

0

0

BHP/Z

WHSIP

*

○

WHFP

F.P. Date: 08/82

Oil Cum: 1217 bbl

Gas Cum: 573.9 mmcf

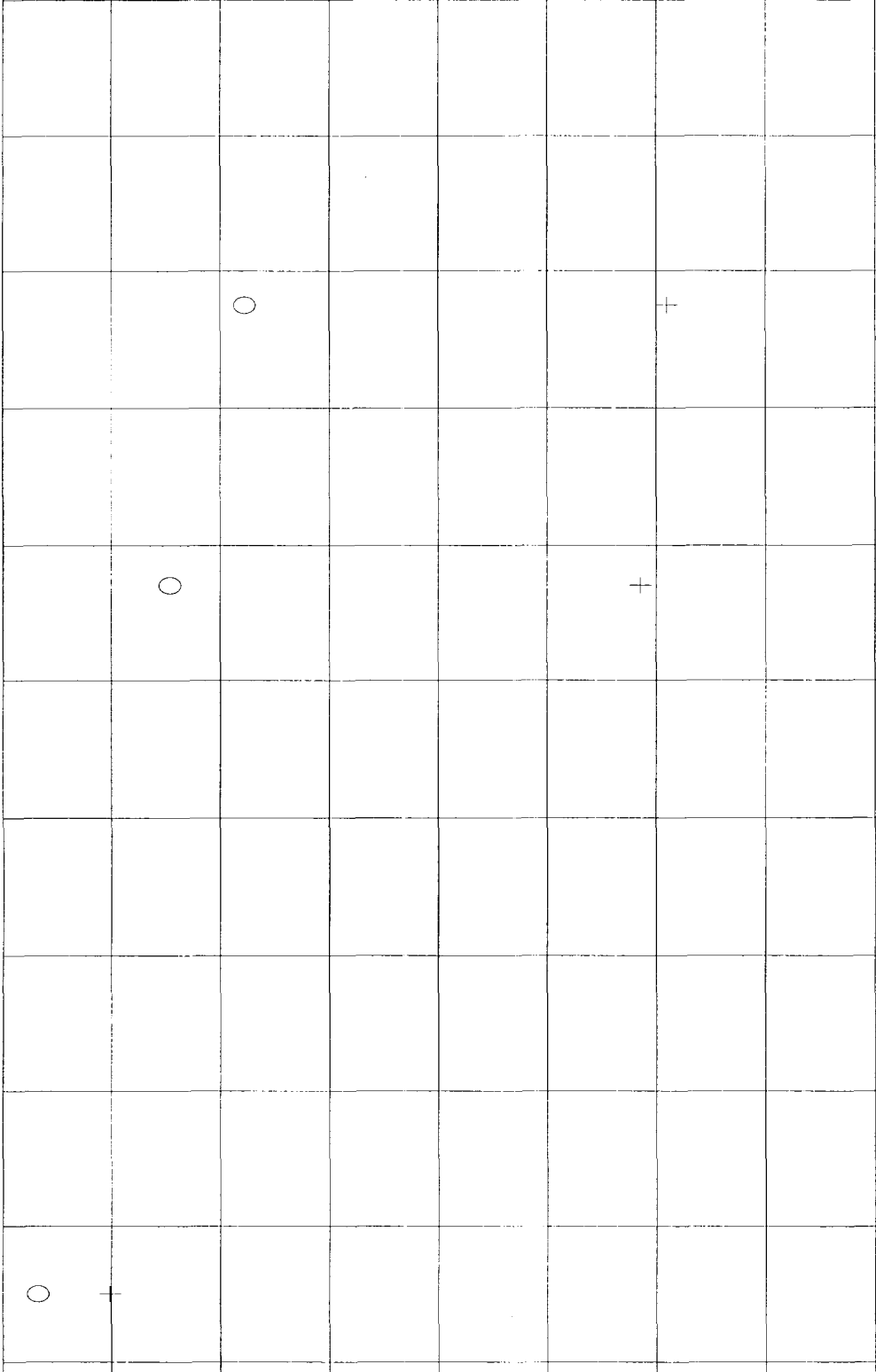
Location: 19G 30N 8W

County: SAN JUAN, NM

Field: BLANCO (PICTURED CLIFFS) P

API #: 30-045-2336200

Operator: AMOCO PRODUCTION CO



Dwights

Lease: ARCHULETA (2)

04/08/98

Retrieval Code: 251,045,30N08W19C00PC

560

8

490

7

420

6

350

5

280

4

210

3

140

2

70

1

0

0

BHP/Z

WHSIP

0

15

30

45

60

75

90

105

120

135

Gas(MMCF)

0

30

60

90

120

150

180

210

240

*

○

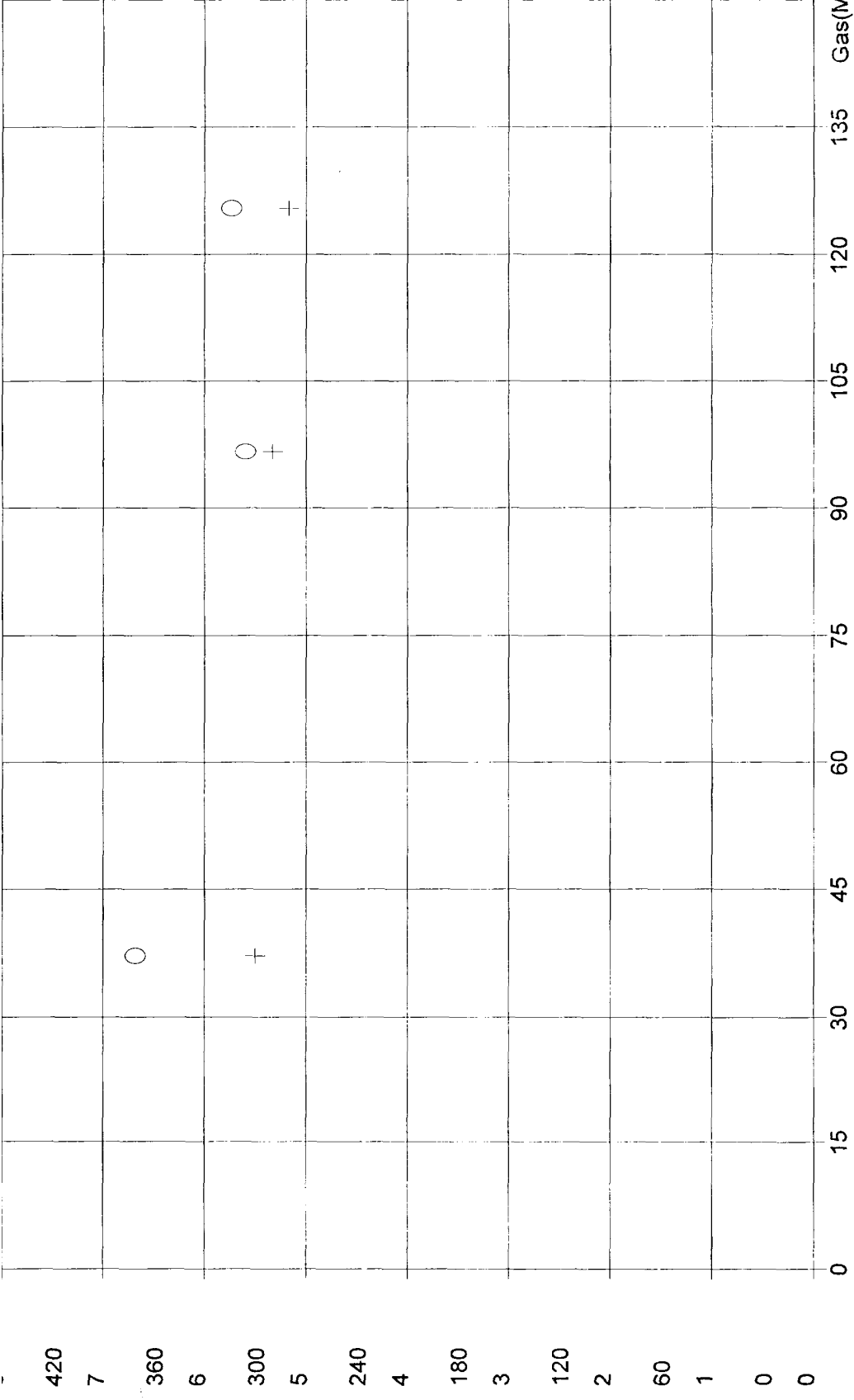
WHFP

County: SAN JUAN, NM F.P. Date: 09/80

Field: BLANCO (PICTURED CLIFFS) P Oil Cum: 580 bbl

API #: 30-045-2360700 Gas Cum: 313.4 mmcf

Operator: AMOCO PRODUCTION CO Location: 19C 30N 8W



County: SAN JUAN, NM
Field: BLANCO (PICTURED CLIFFS) P
API #: 30-045-2360800
Operator: AMOCO PRODUCTION CO

F.P. Date: 01/82
Oil Cum: 0 bbl
Gas Cum: 444.9 mmcf
Location: 25E 30N 9W

WHFP

BHP/Z

WHSIP

Dwights

Lease: LAWSON (2)

04/08/98

Retrieval Code: 251,045,30N09W25B00PC

800

8

700

7

600

6

500

5

400

4

300

3

200

2

100

1

0

0

BHP/Z

WHSIP

0 20 40 60 80 100 120 140 160 180 Gas(M

*

○

County: SAN JUAN, NM

Field: BLANCO (PICTURED CLIFFS) P

API #: 30-045-2150600

Operator: BURLINGTON RES O&G CO

F.P. Date: 11/74

Oil Cum: 0 bbl

Gas Cum: 264.9 mmcf

Location: 25B 30N 9W

WHFP

Gas(M

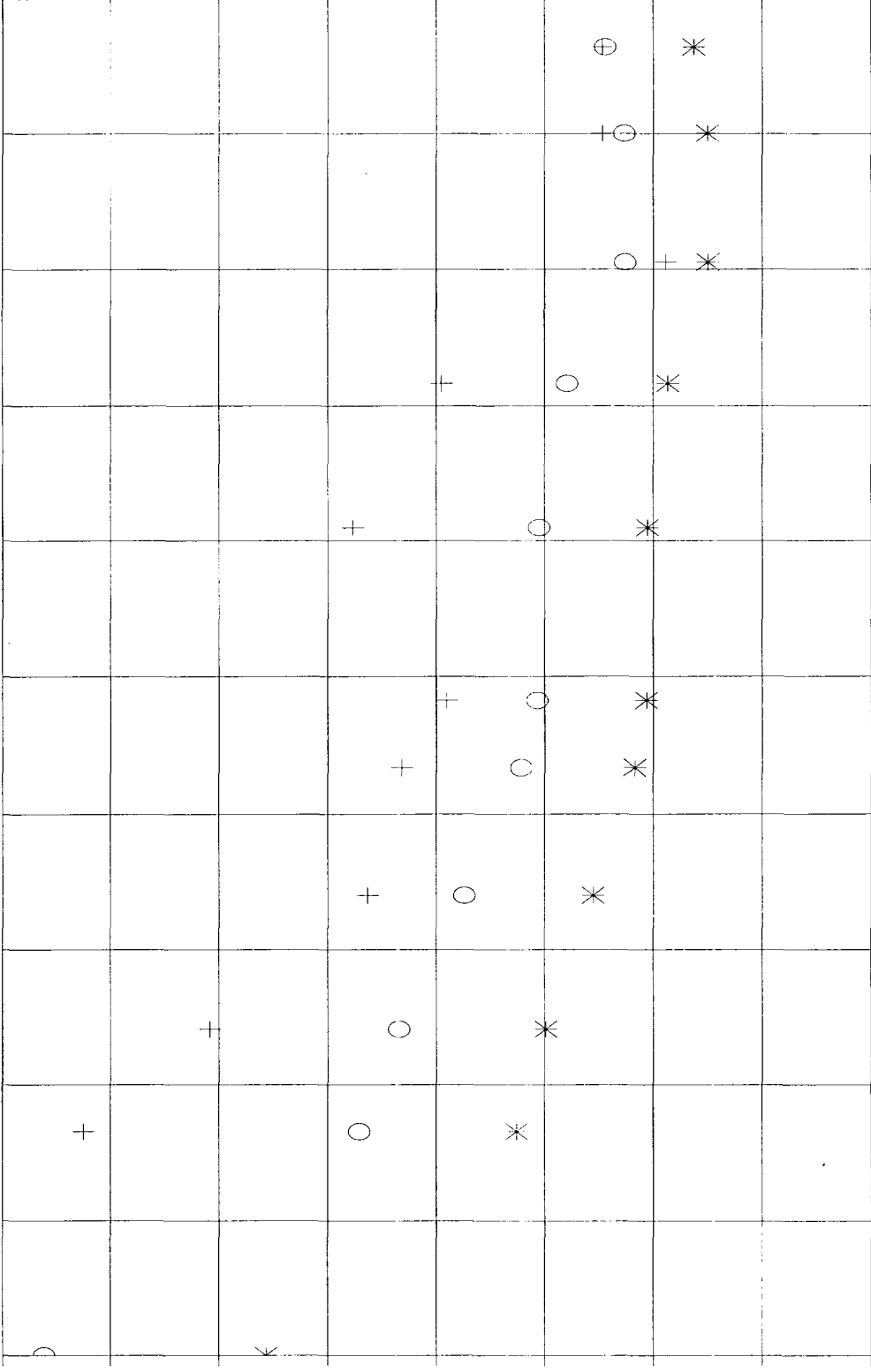
Dwights

Lease: RIDDLE A (9)

04/08/98

Retrieval Code: 251,045,30N09W24M00PC

960
1600
840
1400
720
1200
600
1000
480
800
360
600
240
400
120
200
0
0



BHP/Z

WHSIP

*

O

County: SAN JUAN, NM

Field: BLANCO (PICTURED CLIFFS) P

API #: 30-045-2049100

Operator: BURLINGTON RES O&G CO

F.P. Date: 07/69

Oil Cum: 93 bbl

Gas Cum: 782.8 mmcf

Location: 24M 30N 9W

WHFP

Gas(N

Dwights

Lease: FLORANCE O (20A)

Retrieval Code: 251,045,30N09W24J00PC

04/08/98

560

8

490

7

420

6

350

5

280

4

210

3

140

2

70

1

0

0

BHP/Z

WHSIP

*

○

County: SAN JUAN, NM

Field: BLANCO (PICTURED CLIFFS) P

API #: 30-045-2215200

Operator: AMOCO PRODUCTION CO

F.P. Date: 07/79

Oil Cum: 202 bbl

Gas Cum: 703.0 mmcf

Location: 24J 30N 9W

WHFP

0 40 80 120 160 200 240 280 320 360 Gas(M

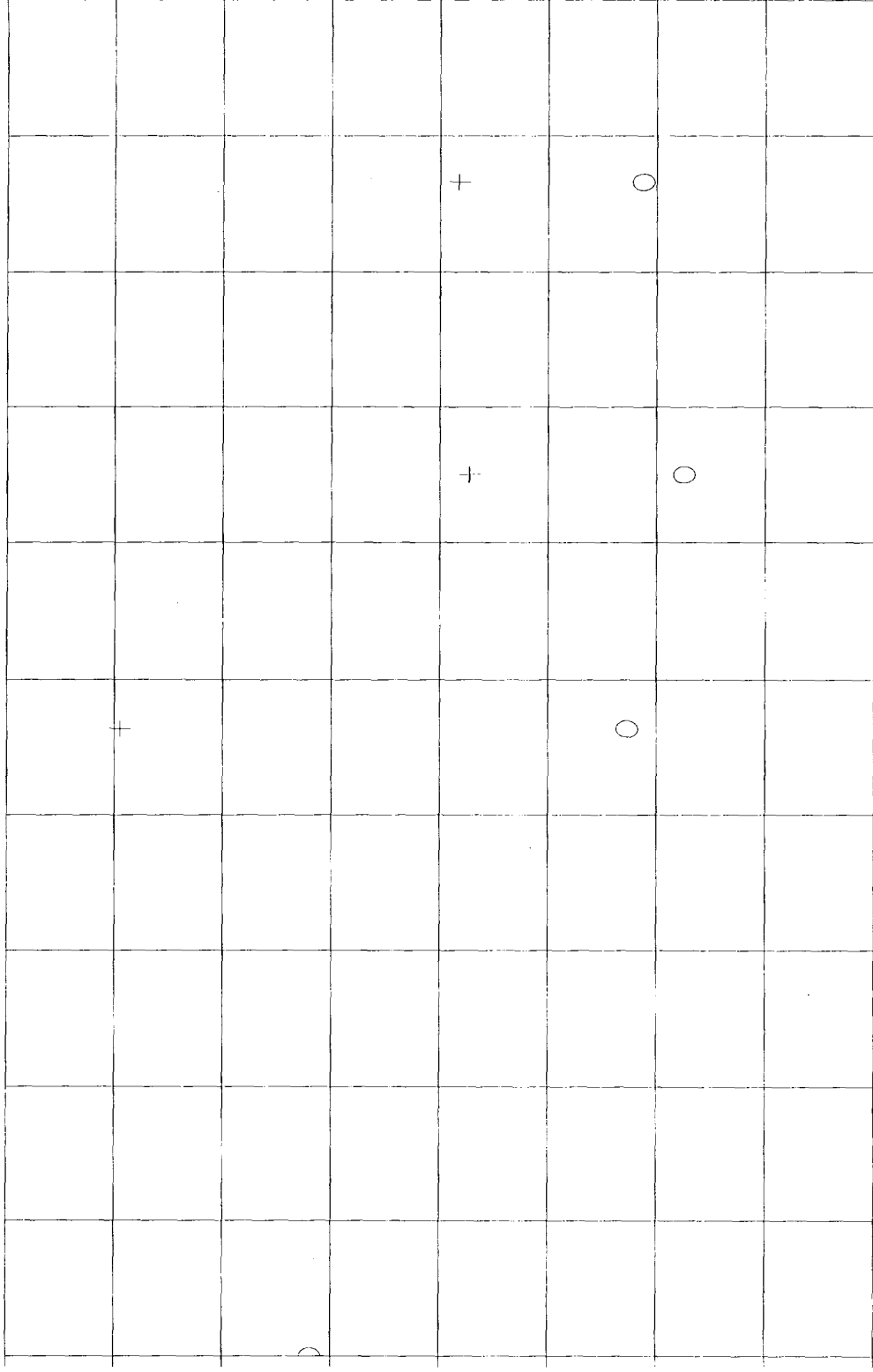
Dwights

Lease: FLORANCE (112)

Retrieval Code: 251,045,30N09W24B00PC

04/08/98

1600
8
1400
7
1200
6
1000
5
800
4
600
3
400
2
200
1
0
0



BHP/Z *
WHSIP O

WHFP

F.P. Date: 10/79

County: SAN JUAN, NM

Oil Cum: 0 bbl

Field: BLANCO (PICTURED CLIFFS) P

Gas Cum: 349.3 mmcf

API #: 30-045-2336500

Location: 24B 30N 9W

Operator: AMOCO PRODUCTION CO



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Farmington Field Office
1235 La Plata Highway, Suite A
Farmington, New Mexico 87401

IN REPLY REFER TO:

SF-078201
3162.3-2 (07400)

Amoco Production Company
Attn.: Pamela Staley
P.O. Box 800
Denver, Colorado 80201-0800

RECEIVED
AUG 14 1998
AUG 17 1998
OIL CON. DIV.
DIST. 3

Re: Well No. 20A, Florance O
NWSE 24-30N-09W
Lease No. SF-078201
San Juan County, NM

Dear Ms. Staley:

Reference is made to your application dated June 2, 1998, requesting authorization to down hole commingle gas and associated liquid hydrocarbons from the Mesaverde and Pictured Cliffs formations in the above referenced well. After reviewing the production characteristic of this well and wells in the vicinity, we concur with the fixed allocation factors established in your application. Authorization is hereby given to allocate production in accordance with the factors outlined below:

<u>Formation</u>	<u>Gas</u>	<u>Oil</u>
Mesaverde	81%	100.0%
Pictured Cliffs	19%	0.0%

Commingled production from each zone must be reported in accordance with these established allocation factors. The effective date of commingling will be the date commingling first occurs.

By Sundry notice approved May 1, 1998, you were authorized to conduct recompletion and down hole commingling operations on the referenced well. Within 30 days of conducting this work, please file a subsequent report (form 3160-5, Sundry Notice) of all operations conducted.

If you have any questions regarding the above, contact Jim Lovato at (505) 599-6367.

Sincerely,
/s/ Duane W. Spencer

Duane Spencer
Team Leader, Petroleum Management Team

cc:
NMOCD, Santa Fe
NMOCD, Aztec



NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

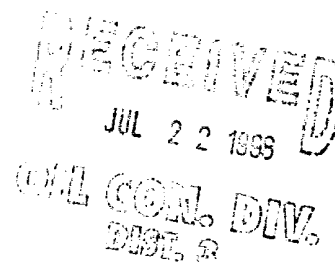
OIL CONSERVATION DIVISION
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

ADMINISTRATIVE ORDER DHC-1974

Amoco Production Company
P.O. Box 800
Denver, Colorado 80201-0800

Attention: Ms. Pamela W. Staley

*Florance "O" No. 20A
API No. 30-045-22152
Unit J, Section 24, Township 30 North, Range 9 West, NMPM,
San Juan County, New Mexico.
Blanco-Mesaverde (Prorated Gas - 72319) and
Blanco-Pictured Cliffs (Gas - 72359) Gas Pools*



Dear Ms. Staley:

Reference is made to your recent application for an exception to Rule 303.A. of the Division Rules and Regulations to permit the above described well to commingle production from the subject pools in the wellbore.

It appearing that the subject well qualifies for approval for such exception pursuant to the provisions of Rule 303.C., and that reservoir damage or waste will not result from such downhole commingling, and correlative rights will not be violated thereby, you are hereby authorized to commingle the production as described above and any Division Order which authorized the dual completion and required separation of the zones is hereby placed in abeyance.

The maximum amount of gas which may be produced daily from the well shall be determined by Division Rules and Regulations or by the gas allowable for each respective prorated pool as printed in the Division's San Juan Basin Gas Proration Schedule.

Assignment of allowable to the well and allocation of production from the well shall be on the following basis:

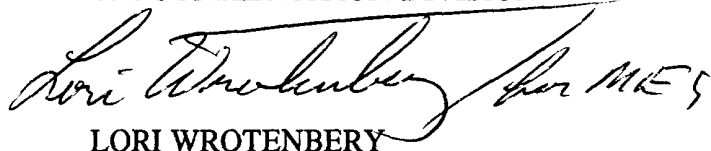
Blanco-Pictured Cliffs Gas Pool	Oil 0%	Gas 19%
Blanco-Mesaverde Gas Pool	Oil 100%	Gas 81%

REMARKS: The operator shall notify the Aztec District Office of the Division upon implementation of the commingling process.

Pursuant to Rule 303.H., the commingling authority granted herein may be rescinded by the Division Director if conservation is not being best served by such commingling.

Approved at Santa Fe, New Mexico on this 20th day of July, 1998.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION


LORI WROTENBERY
Director

S E A L

LW/DRC

cc: Oil Conservation Division - Aztec /
Bureau of Land Management-Farmington

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT - " for such proposals

5. Lease Designation and Serial No.

SF-078201

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

AMOCO PRODUCTION COMPANY

Attention:
Gail M. Jefferson

NOV - 5 1998

Florence O

#20A

3. Address and Telephone No.

P.O. BOX 800 DENVER, COLORADO 80201

(303) 830-6152

3004522152

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1510' FSL

2334' FEL

Sec. 24 T 30N R 9W

UNIT J

8. If Pooled Pool, or Exploratory Area

Blanco Pictured Cliff/Mesaverde

11. County or Parish, State

SAN JUAN

NEW MEXICO

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐
- Notice of Intent
-
- ☒
- Subsequent Report
-
- ☐
- Final Abandonment Notice

TYPE OF ACTION

- ☐
- Abandonment
-
- ☐
- Recompletion
-
- ☐
- Plugging Back
-
- ☐
- Casing Repair
-
- ☐
- Altering Casing
-
- ☒
- Other Perf and Frac/Add Pay + DHC
-
- ☐
- Change of Plans
-
- ☐
- New Construction
-
- ☐
- Non-Routine Fracturing
-
- ☐
- Water Shut-Off
-
- ☐
- Conversion to Injection
-
- ☐
- Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log Form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Amoco Production Company has perf'd, frac'd and commingled the above referenced well per the following:
MIRU 10/2/98, NDWH, NUBOP, TIH with pkr mill and tbq. TOH with pkr, pkr kept hanging up. Would have to mill on pkr. Pkr also would not pull thru wellhead, set sorm valve, chg wellhead. TOH with valve and pkr.

Set CIBP at 4230'. Pressure test bridge plug to 2000#. Tested okay. RU to perf. Perforated at 4051'-4054', 4096'-4104', 4128'-4142', 4157'-4160', 4162'-4171', and 4167'-4183', with 2 jsfp, .330 inch diameter, total 62 shots fired. TIH with taped string of 3.5" tbq to 2-7/8" tbq on bottom with pkr set at 2887'. Average treating pressure 2450#, ISIP 1558# in 5 mins., 1126# in 10 mins., and 1076# in 15 minutes. Frac'd with 38,441# of 16/30 Arizona sand.

Flow back frac on 1/4" choke for 14 hours, upsize choke to 1/2" and flow for 24 hrs, upsize to 3/4" choke and flow back on watchman for 24 hrs. Unseat pkr and TOH LD tapered frac string. TIH with bit and tbq. Flow well back with PC and MV perfs now open. Unable to get flow test on MV without setting a pkr to isolate PC perfs that already existed.

Clean out sand fill to CIBP. Flow well overnight. TIH and tag fill at 4208'. Clean out and flow. TIH and tg at 4224'. Clean out and flow overnight. Tag fill at 4228' clean out and drill up BP at 4230'. TIH and tg fill at 4816', clean out to 4837'. Unable to drill out any deeper. TOH and PU mill and TIH could not clean out any further. TOH call temp PBD of 4840', 38 feet short of old PBD. Casing may be collapsed. TIH with production tbq and land at 4814'. NDBOP, NUWH, released rig 10/16/98.

14. I hereby certify that the foregoing is true and correct

Signed

Gail M. Jefferson

Title

Sr. Admin. Staff Asst.

Date

10-21-1998

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title

Date

OCT 26 1998

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious, or fraudulent statements or representations as to any matter within its jurisdiction.

* See Instructions on Reverse Side

NMCCD

ACCEPTED FOR RECORD
DISTRICT OFFICE

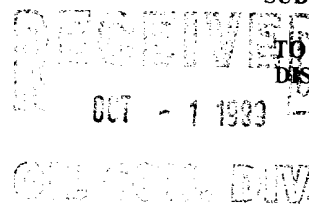
District I - (505) 393-6161
1625 N. French Dr
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Form C-140
Revised 06/99

SUBMIT ORIGINAL
PLUS 2 COPIES
TO APPROPRIATE
DISTRICT OFFICE

APPLICATION FOR
WELL WORKOVER PROJECT



I. Operator and Well

Operator name & address Amoco Production Company P.O. Box 3092 Houston, TX 77253						OGRID Number 000778		
Contact Party Mary Corley						Phone 281-366-4491		
Property Name Florance O					Well Number 20A		API Number 30-045-22152	
UL J	Section 24	Township 30N	Range 9W	Feet From The 1510'	North/South Line South	Feet From The 2334'	East/West Line East	County San Juan

II. Workover

Date Workover Commenced: October 2 1998	Previous Producing Pool(s) (Prior to Workover): Blanco Mesaverde/Blanco Pictured Cliff
Date Workover Completed: October 16 1998	

III. Attach a description of the Workover Procedures performed to increase production.

IV. Attach a production decline curve or table showing at least twelve months of production prior to the workover and at least three months of production following the workover reflecting a positive production increase.

V. AFFIDAVIT:

State of <u>Texas</u>)		
) ss.		
County of <u>Harris</u>)		
<u>Mary Corley</u> , being first duly sworn, upon oath states:		
1. I am the Operator, or authorized representative of the Operator, of the above-referenced Well.		
2. I have made, or caused to be made, a diligent search of the production records reasonably available for this Well.		
3. To the best of my knowledge, this application and the data used to prepare the production curve and/or table for this Well are complete and accurate.		
Signature <u>Mary Corley</u>		Title <u>Sr. Business Analyst</u>
SUBSCRIBED AND SWORN TO before me this <u>29</u> day of <u>September</u> , <u>1999</u>		Date <u>September 29 1999</u>
		<u>Anne Evans</u> Notary Public
My Commission expires: <u>March 21 2001</u>		

FOR OIL CONSERVATION DIVISION USE ONLY:

VI. CERTIFICATION OF APPROVAL:

This Application is hereby approved and the above-referenced well is designated a Well Workover Project and the Division hereby verifies the data shows a positive production increase. By copy hereof, the Division notifies the Secretary of the Taxation and Revenue Department of this Approval and certifies that this Well Workover Project was completed on 10/16/98.

Signature District Supervisor <u>35.5</u>	OCD District <u>3</u>	Date <u>10/27/98</u>
--	--------------------------	-------------------------

VII. DATE OF NOTIFICATION TO THE SECRETARY OF THE TAXATION AND REVENUE DEPARTMENT: _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

9793001 F02
FORM APPROVED

Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT" for such proposals.

5. Lease Designation and Serial No.

SF-078201

6. If Indian, Alton or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Florance O #21

9. API Well No.

3004522152

10. Field and Pool, or Exploratory Area

Blanco Pictured Cliff/Mesaverde

11. County or Parish, State

SAN JUAN NEW MEXICO

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

AMOCO PRODUCTION COMPANY

Attention:

Gail M. Jefferson

3. Address and Telephone No.

P.O. BOX 800 DENVER, COLORADO 80201

(303) 830-6157

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1510' FSL 2334' FEL Sec. 24 T 30N R 9W UNIT J

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

TYPE OF ACTION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other Perf and Frac/Add Pay

- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for markers and zones pertinent to this work.)

Amoco Production Company has perf'd, frac'd and commingled the above referenced well per the following:
MIRU 10/2/98, NDWH, NUBOP, TIH with pkr mill and tbq. TOH with pkr, pkr kept hanging up. Would have to mill on pkr. Pkr also would not pull thru wellhead, set sorm valve, chg wellhead. TOH with valve and pkr.

Set CIBP at 4230'. Pressure test bridge plug to 2000#. Tested okay. RU to perf. Perforated at 4051'-4054', 4096'-4104', 4128'-4142', 4157'-4160', 4162'-4171', and 4167'-4183', with 2 jsp, .330 inch diameter, total 62 shots fired. TIH with taped string of 3.5" tbq to 2-7/8" tbq on bottom with pkr set at 2887'. Average treating pressure 2450#, ISIP 1558# in 5 mins., 1126# in 10 mins., and 1076# in 15 minutes. Frac'd with 38,441# of 16/30 Arizona sand.

Flow back frac on 1/4" choke for 14 hours, upsize choke to 1/2" and flow for 24 hrs, upsize to 3/4" choke and flow back on watchman for 24 hrs. Unseat pkr and TOH LD tapered frac string. TIH with bit and tbq. Flow well back with PC and MV perfs now open. Unable to get flow test on MV without setting a pkr to isolate PC perfs that already existed.

Clean out sand fill to CIBP. Flow well overnight. TIH and tag fill at 4208'. Clean out and flow. TIH and tg at 4224'. Clean out and flow overnight. Tag fill at 4228' clean out and drill up BP at 4230'. TIH and tg fill at 4816', clean out to 4837'. Unable to drill out any deeper. TOH and PU mill and TIH could not clean out any further. TOH call temp PBD of 4840', 38 feet short of old PBD. Casing may be collapsed. TIH with production tbq and land at 4814'. NDBOP, NUWH, released rig 10/16/98.

14. I hereby certify that the foregoing is true and correct

Signed Gail M. Jefferson Title Sr. Admin. Staff Asst.

Date 10-21-1998

(This space for Federal or State office use)

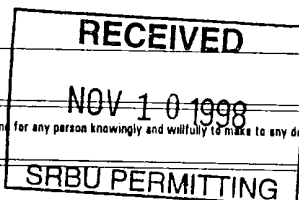
ACCEPTED FOR RECORD

Approved by
Conditions of approval, if any:

Title

OCT 26 1998

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious, or fraudulent statements or representations.



* See Instructions on Reverse Side

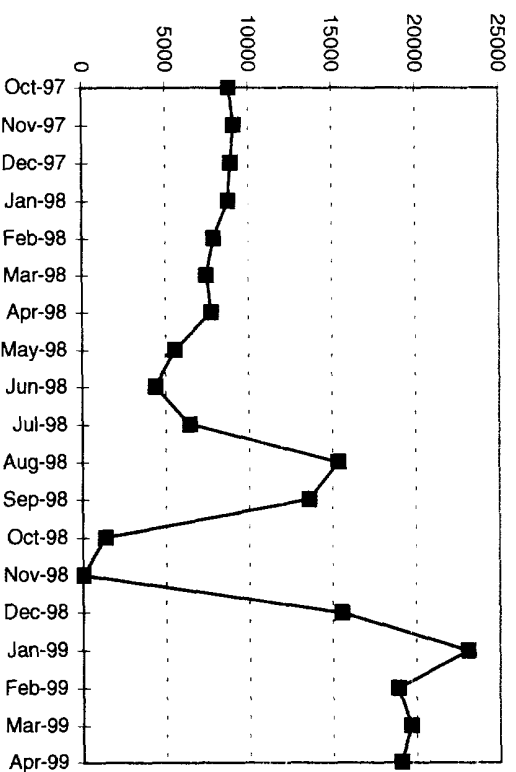
ADMINISTRATIVE DISTRICT OFFICE

Florance O 20A
Blanco Mesaverde & Blanco Pictured Cliff Pools
API 30-045-22152
FLAC # 979300-01 & 979300-02
LOCATION S24 T30N R9W
ADD PAY, FRAC AND DOWNHOLE COMMINGLED
COMPLETED 10/16/98

PRODUCTION TABLE

Oct-97	8847
Nov-97	9114
Dec-97	8942
Jan-98	8777
Feb-98	7906
Mar-98	7465
Apr-98	7768
May-98	5569
Jun-98	4382
Jul-98	6463
Aug-98	15343
Sep-98	13601
Oct-98	1343
Nov-98	0
Dec-98	15492
Jan-99	23096
Feb-99	18913
Mar-99	19679
Apr-99	19067

PRODUCTION CURVE



WELL WAS A DUAL COMPLETION - ADDED PAY, FRAC'D AND DOWNHOLE
 COMMINGLED PRODUCTION.