



February 7, 1997

Amoco Production Company

San Juan Business Unit
Post Office Box 800
Denver, Colorado 80201
303-830-4040

Mr. William J. LeMay, Director
New Mexico Oil Conservation Division
2040 S. Pacheco Street
P. O. Box 6429
Santa Fe, NM 87505

RECEIVED
FEB 12 1997

OIL CON. DIV.
DIST. 3

Application for Exception to Rule 303-A- Downhole Commingling
Florance D LS #14 Well
Unit K Section 21-T27N-R8W
Otero Chacra 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. By copy of this application by certified mail, return receipt requested, 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 his opinion, waste will not result thereby, and correlative rights will not be violated.

Should there be questions concerning this matter, please contact me at (303) 830-5344.

Sincerely,

Pamela W. Staley

Enclosures

cc: Mark Rothenberg
Pat Archuleta
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

✓

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		P.O. Box 800 Denver, CO 80201	
Operator		Address	
Florance D LS	14	K-21-27N-8W	San Juan
Lease	Well No.	Unit Ltr. - Sec Twp - Rge	County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 000778 Property Code 000529 API NO. 3004506347 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	OTERO CHACRA 82329		BLANCO MESAVERDE 72319
2. Top and Bottom of Pay Section (Perforations)	3294' - 3428'	RECEIVED FEB 12 1997 OIL CON. DIV. DIST. 3	4606' - 4761'
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) 635 PSI b. (Original) 1050 PSI	a. b.	a. 575 PSI b. 1250 PSI
6. Oil Gravity (* API) or Gas BTU Content	1150 BTU		1200 BTU / 49 DEG API
7. Producing or Shut-In?	NEW		PRODUCING
Production Marginal? (yes or no) • 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 • If Producing, give date and oil/gas/water rates of recent test (within 60 days)	YES Date: Rates: ESTIMATED FROM MODEL OF OFFSETS 120 MCFD	Date: Rates: Date: Rates:	NO Date: Rates: 12/96 131 MCFD 0.5 BCPD 0.5 BWPD
8. Fixed Percentage Allocation Formula -% for each zone	Oil: 0 % Gas 48 %	Oil: % Gas %	Oil: 100 % Gas 52 %

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 NM-03380
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 2/6/97
TYPE OR PRINT NAME PAMELA W. STALEY TELEPHONE NO. (303) 830-5344

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

OIL CONSERVATION DIVISION

2040 South Pacheco
Santa Fe, New Mexico 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 3004506347	Pool Code 82329	Pool Name Otero Chacra
Property Code 000529	Property Name Florance D LS	Well Number 14
OGRID No. 000778	Operator Name AMOCO PRODUCTION COMPANY	Elevation 6230

Surface Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West Line	County
UNIT K	21	27N	8W		1750	SOUTH	1750	WEST	San Juan

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: 160	Joint or Infill	Consolidation Code	Order No.
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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 <i>Pat Archuleta</i>	
	Printed Name Pat Archuleta	
	Position Staff Assistant	
	Date 02/07/1997	
	SURVEY CERTIFICATION	
	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 of Survey 02/05/1958	
	Signature & Seal of Professional Surveyor	
Certificate No. NM03380		

Well Location and Acreage Dedication Plat

Section A.

Date **FEBRUARY 6, 1958**

Operator **EL PASO NATURAL GAS COMPANY** Lease **FLORANCE** NM **03380**
 Well No. **14-D (PM)** Unit Letter **K** Section **21** Township **27-N** Range **8-W** NMPM
 Located **1750** Feet From **SOUTH** Line **1750** Feet From **WEST** Line
 County **SAN JUAN** G. L. Elevation **6230** Dedicated Acreage **320 & 160** Acres
 Name of Producing Formation **MESA VERDE & PICTURED CLIFF** Pool **MV - BLANCO, SOUTH BLANCO P.C.**

1. Is the Operator the only owner in the dedicated acreage outlined on the plat below?
 Yes ☒ No ☐
2. If the answer to question one is "no", have the interests of all the owners been consolidated by communitization agreement or otherwise? Yes ☐ No ☐ If answer is "yes", Type of Consolidation.

3. If the answer to question two is "no", list all the owners and their respective interests below:

Owner

Land Description

RECEIVED

FEB 10 1958

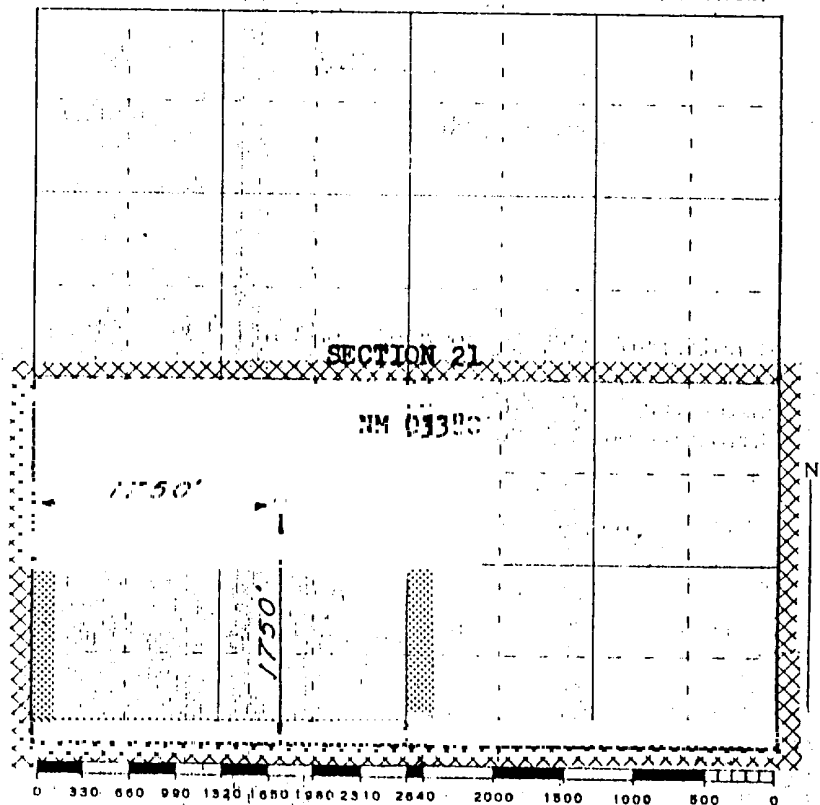
U. S. GEOLOGICAL SURVEY
FARMINGTON, NEW MEXICO

Section B.

Note: All distances must be from outer boundaries of section.

This is to certify that the information in Section A above is true and complete to the best of my knowledge and belief.

El Paso Natural Gas Company

(Operator)
Original Signed **D. C. Johnston**(Representative)
Box 997(Address)
Farmington, New Mexico

Scale 1 inch equals 1 mile

This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.

(Seal)

Farmington, New Mexico

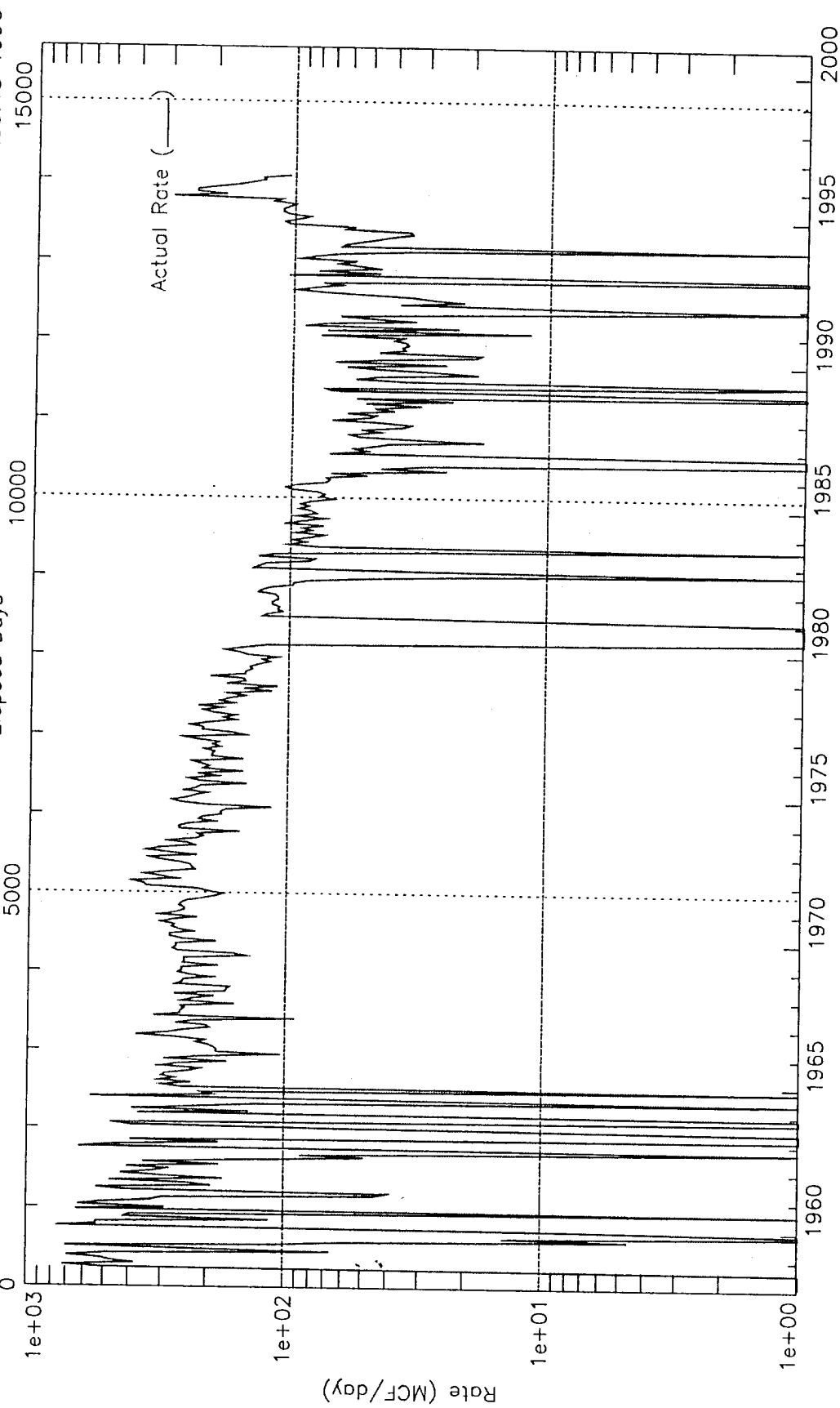
Date Surveyed **FEBRUARY 5, 1958**

David O. Wilson
 Registered Professional Engineer and/or Land Surveyor

User: zmdr16
Owner: 2DMHF

Single Well Gas3D

Description 1
Thu Dec 12 07:55:48 1996



Cum Gas= 2251.56 MMCF

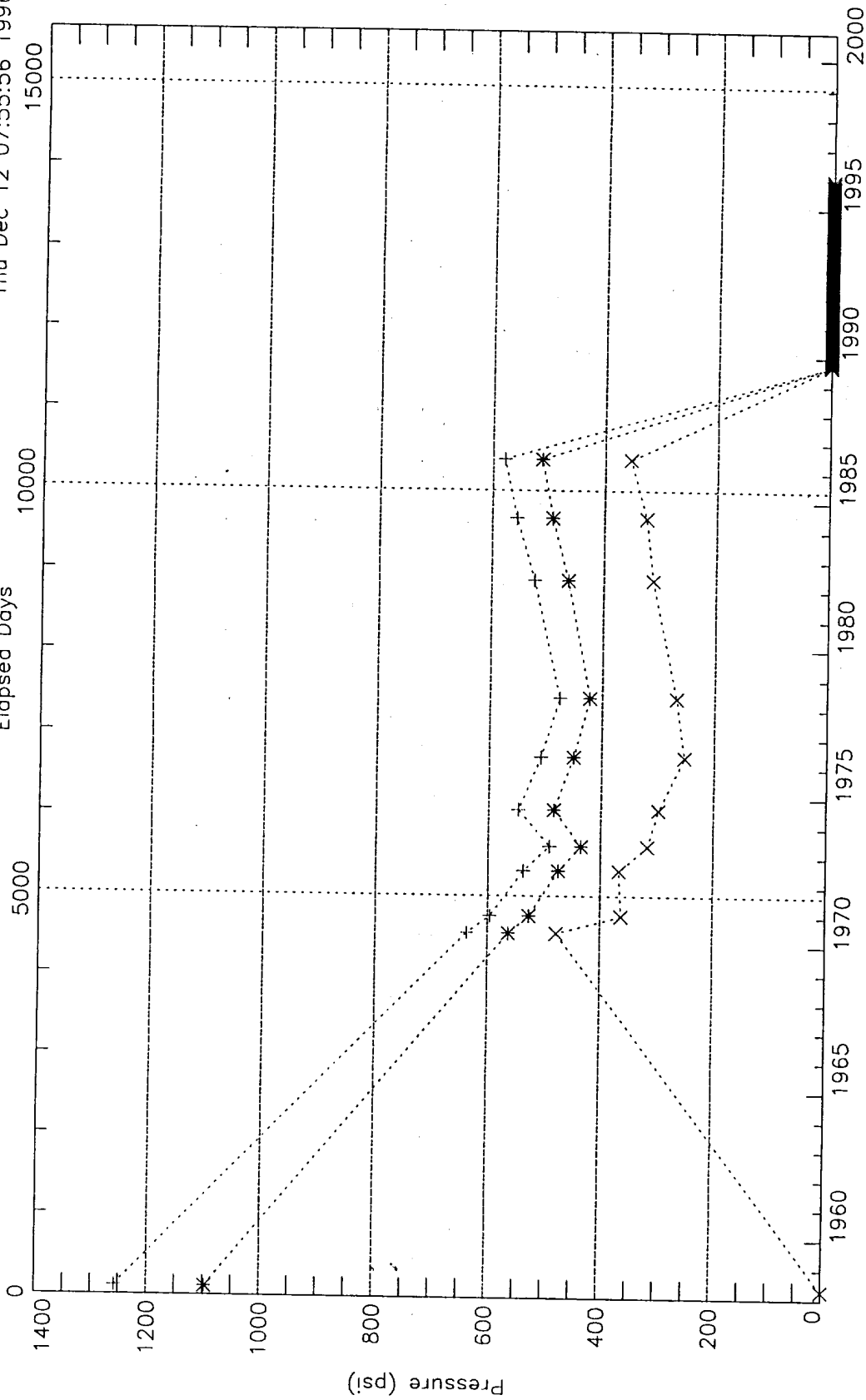
Date (Years)

Well ID: 300450634700 604MVRD
Well Name: FLORANCE D 4.9-14 /MV/ 014K21
Operator: AMOCO PRODUCTION COMPANY

User: zmdr16
Owner: 2DMHF

Single Well Gas3D

Description 1
Thu Dec 12 07:55:56 1996

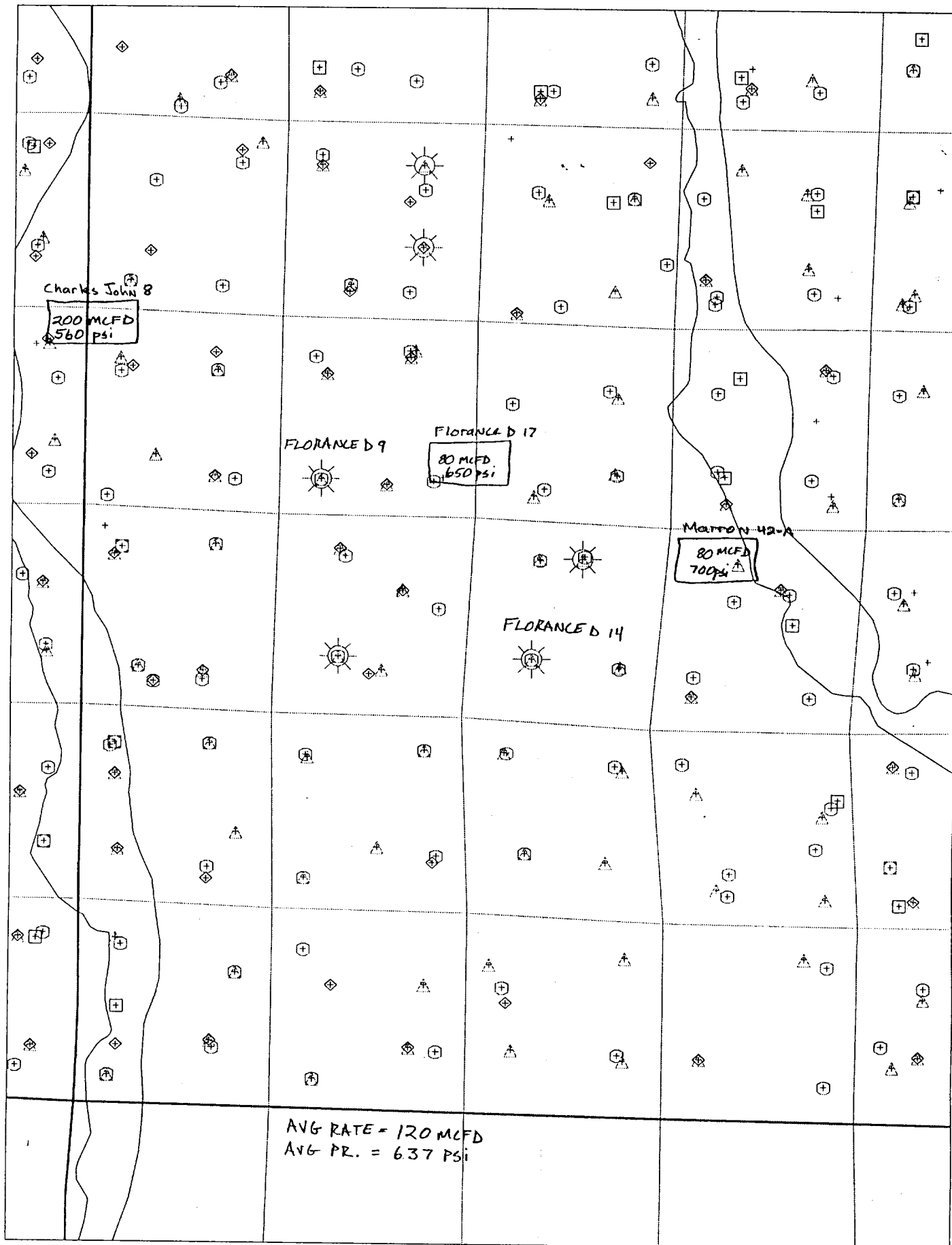


Date (Years)

Well ID: 300450634700 604MVRD
Well Name: FLORANCE D 4,9-14 /MV/ 014K21
Operator: AMOCO PRODUCTION COMPANY

ck_recomp

27N-8W

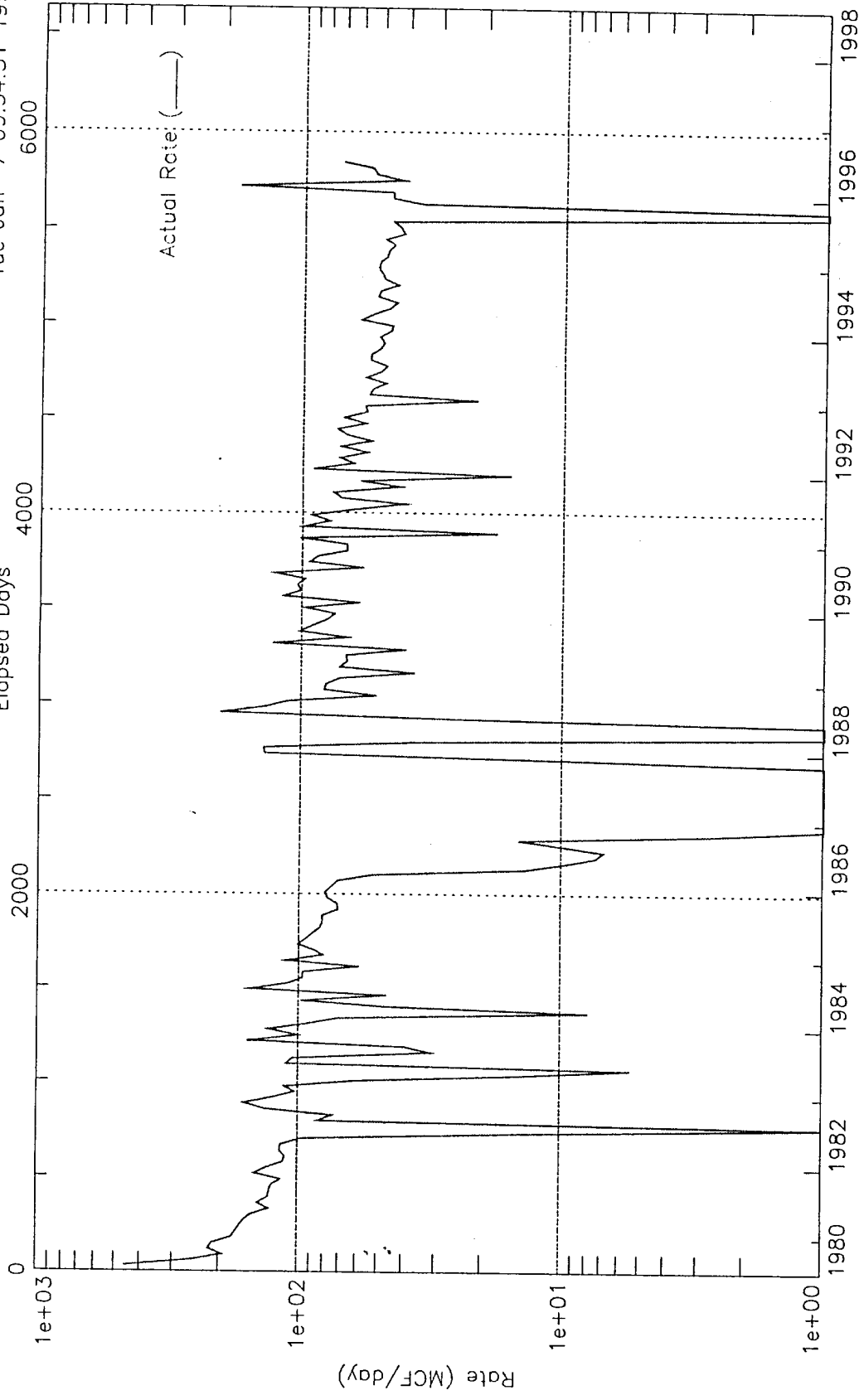


User: zmdr16
Owner: default

Single Well Gas3D

Tue Jan 7 09:54:51 1997

Eapsed Days



Cum Gas= 433.08 MMCF

Date (Years)

Well ID: 300452362800 604CHCR

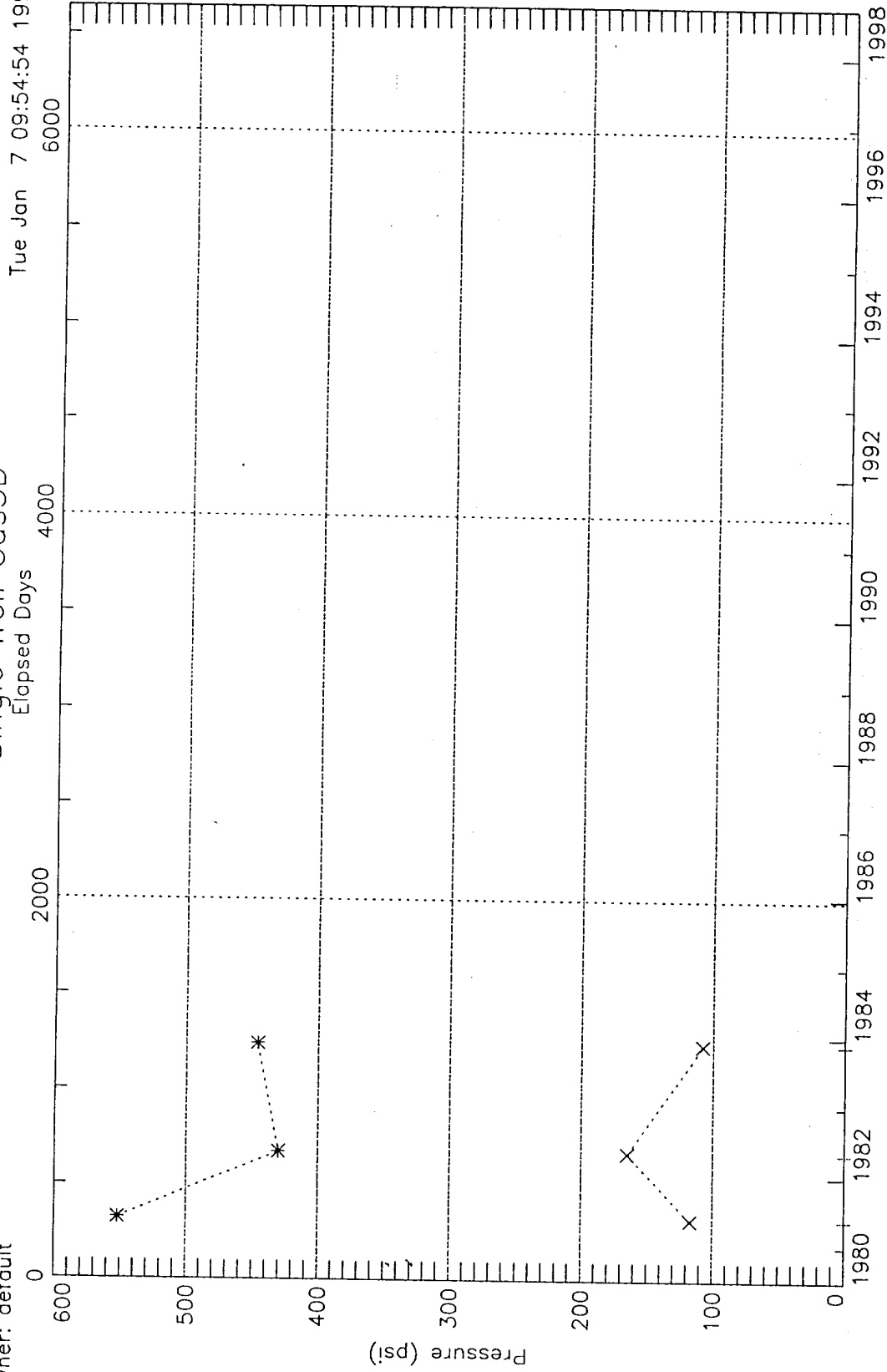
Well Name: CHARLES JOHN 8

Operator: FOUR STAR OIL & GAS COMPANY

User: zmdr16
Owner: default

Single Well Gas3D

Tue Jan 7 09:54:54 1997



Date (Years)

WH_SIP (*)
BHP (+)
WH_FTP (x)

Well ID: 300452362800 604CHCR

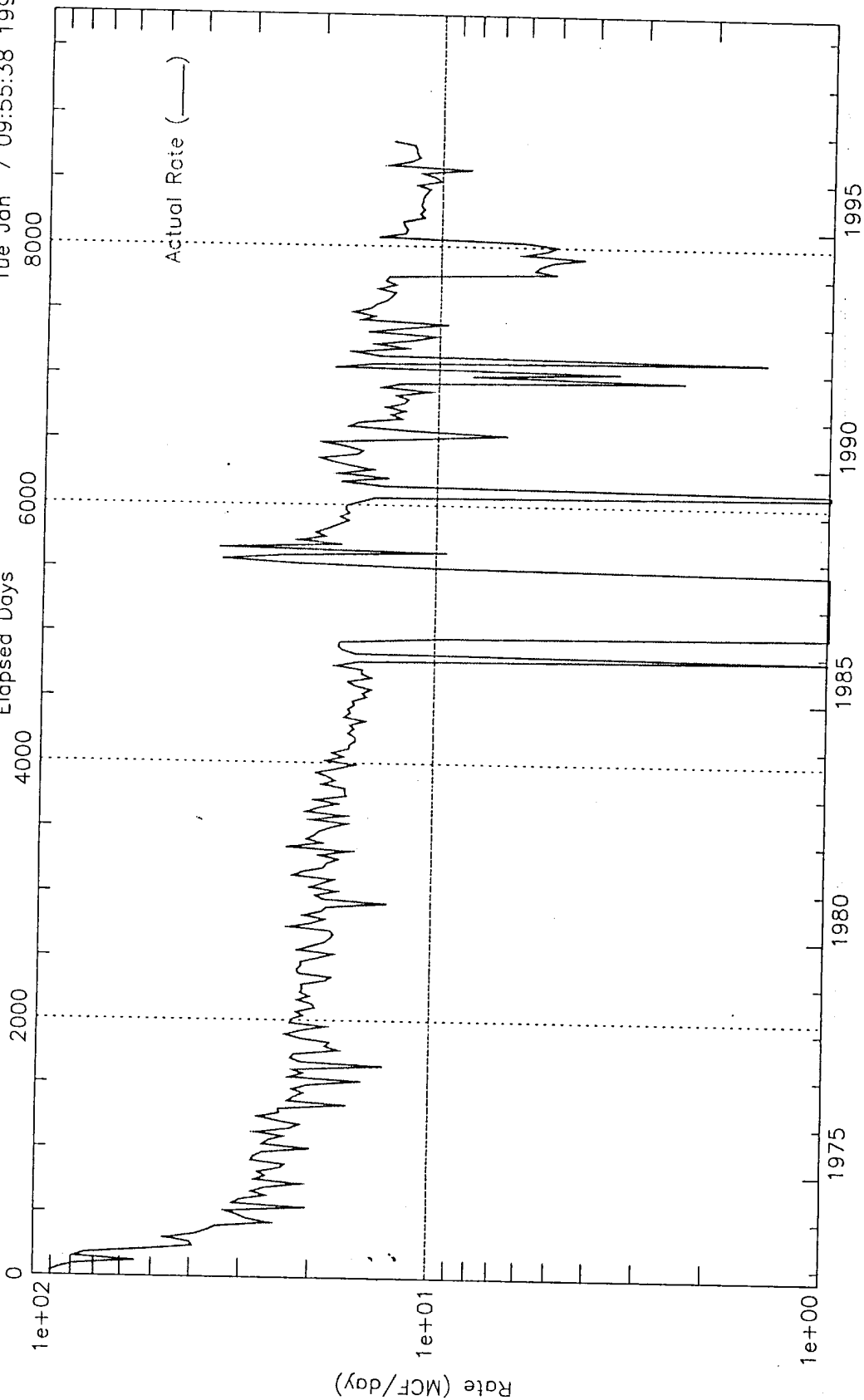
Well Name: CHARLES JOHN 8

Operator: FOUR STAR OIL & GAS COMPANY

User: zmdr16
Owner: default

Single Well Gas3D

Tue Jan 7 09:55:38 1997



Cum Gas= 157.35 MMCF

Date (Years)

Well ID: 300452092500 604CHCR

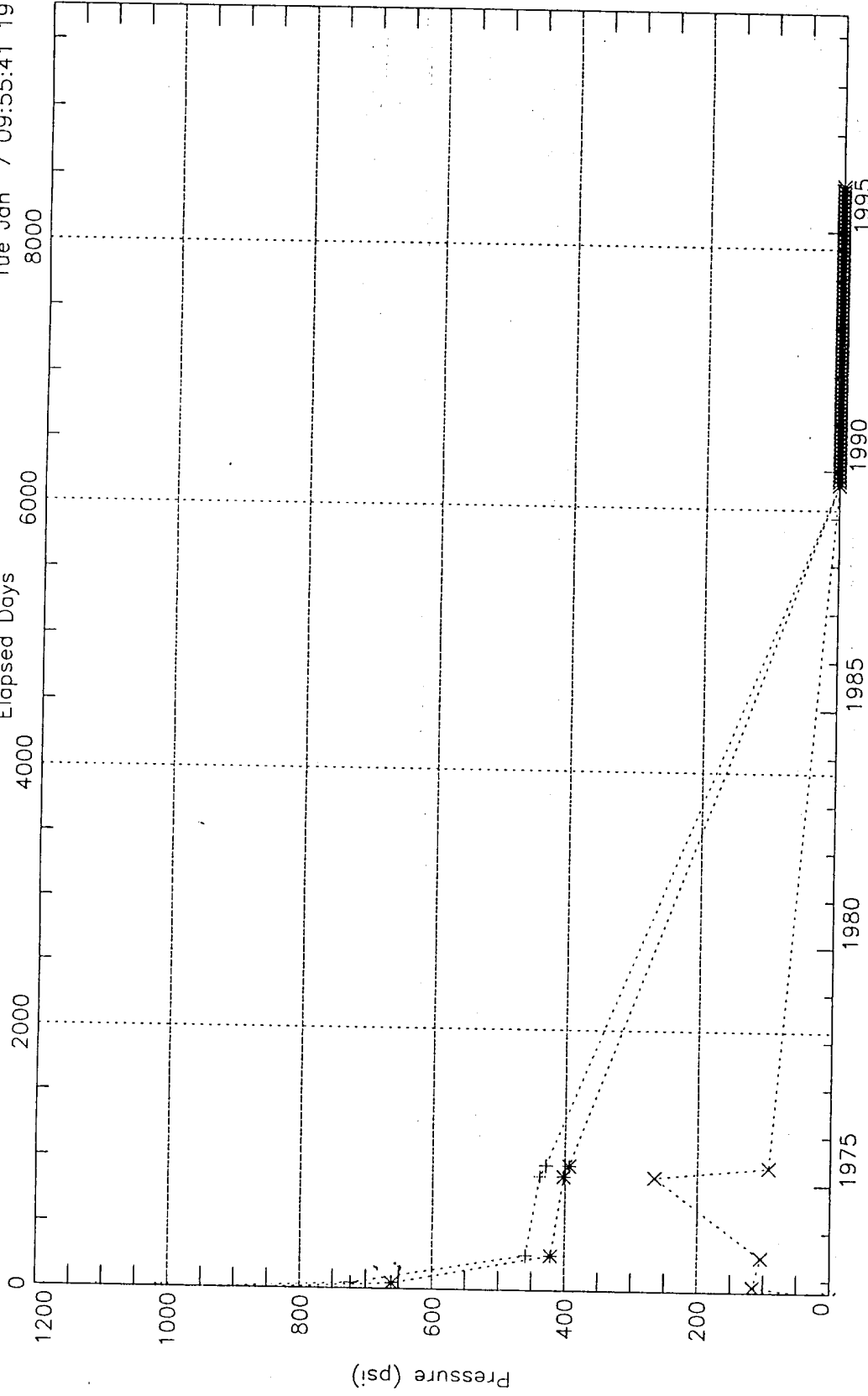
Well Name: FLORANCE D LS 1-3,5-9,11-16 /PC/ 09 017P17

Operator: AMOCO PRODUCTION COMPANY

User: zmdr16
Owner: default

Single Well Gas3D

Tue Jan 7 09:55:41 1997



Date (Years)

Well ID: 300452092500 604CHCR

Well Name: FLORANCE D LS 1-3,5-9,11-16 /PC/ 09 017P17

Operator: AMOCO PRODUCTION COMPANY

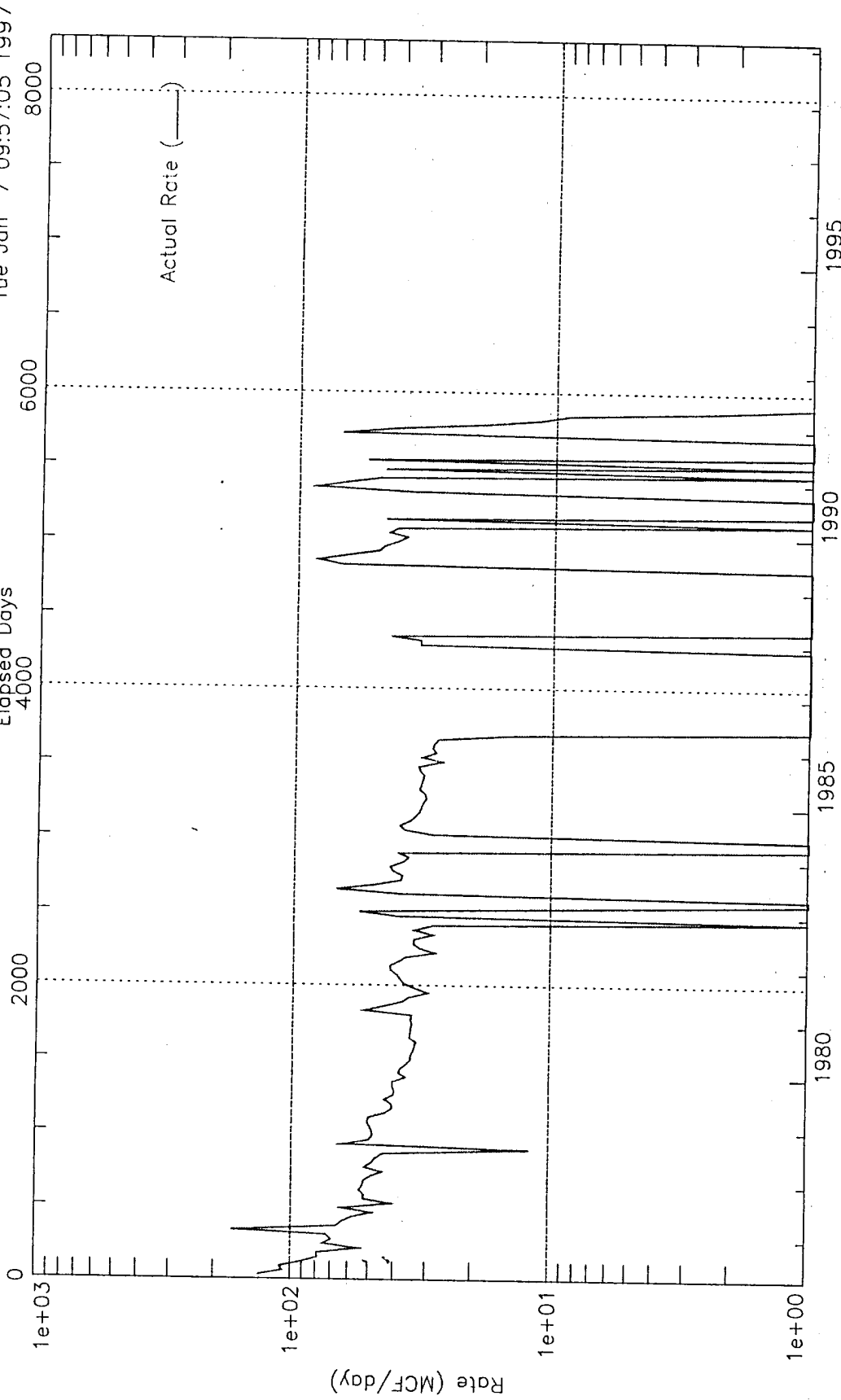
WH_SIP (*)
BHP (+)
WH_FTP (x)

User: zmdr16
Owner: default

Single Well Gas3D

Tue Jan 7 09:57:05 1997

Elapsed Days



Cum Gas= 190.15 MMCF

Date (Years)

Well ID: 300452189200 604CHCR

Well Name: MARRON 42-A

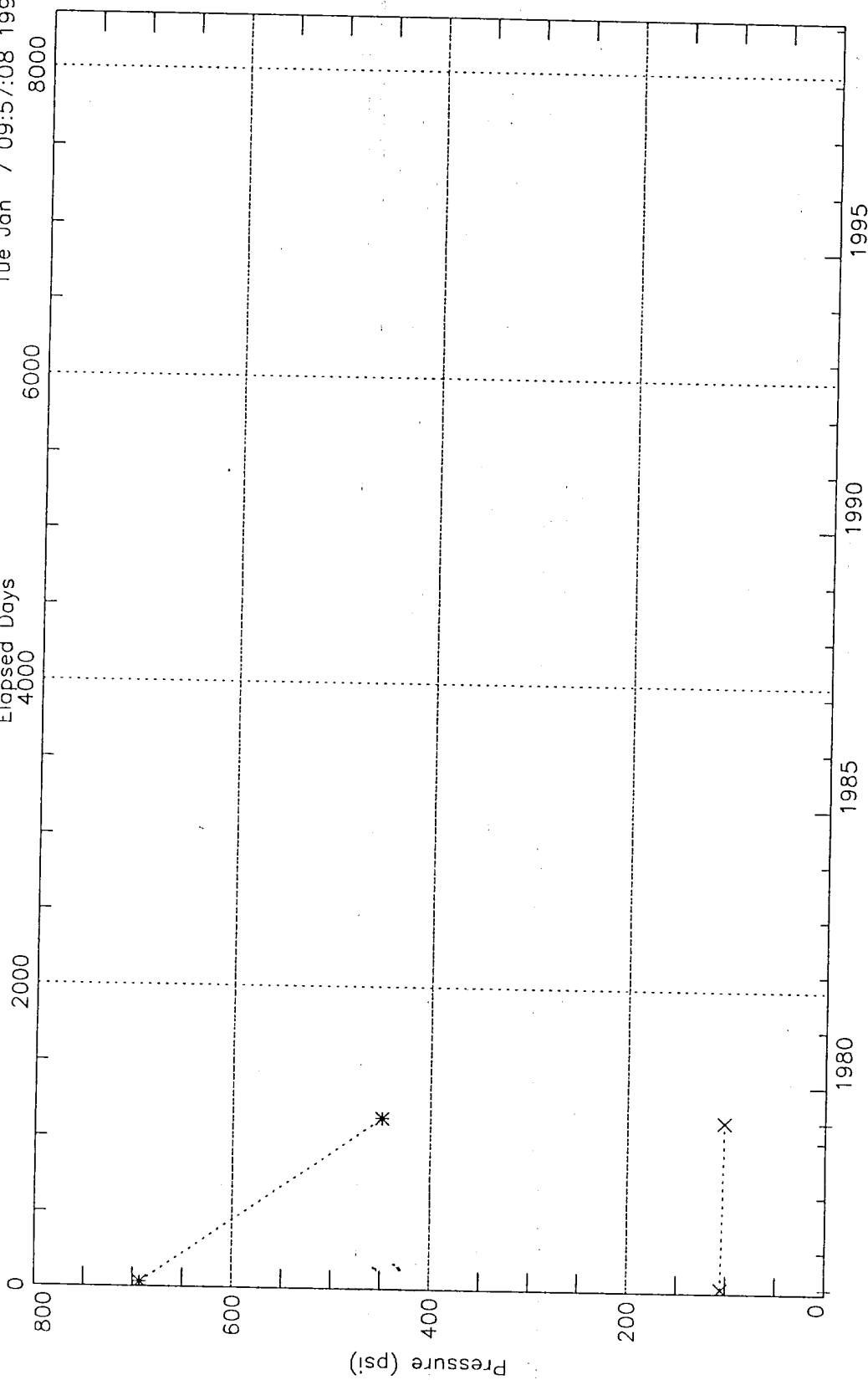
Operator:

User: zmdr16
Owner: default

Single Well Gas3D

Tue Jan 7 09:57:08 1997

Elapsed Days



Date (Years)

Well ID: 300452189200 604CHCR

Well Name: MARRON 42-A

Operator:

WH_SIP (*)
BHP (+)
WH_FTP (x)

Wellbore Configuration
Florance D LS #14

Note that this well is currently a Pictured Cliffs and Mesaverde Dual Completion. The Pictured Cliffs formation pressure is too low to be commingled at this point with the Chacra and Mesaverde. Therefore, the wellbore will be configured with the Pictured Cliffs zone isolated as a dual completion with the Mesaverde and Chacra downhole commingled.

Allocation Method and Bottomhole Pressure Data
Florance D LS #14

We recommend allocating production based on modeling of the surrounding wells. The Chacra is estimated to produce at an average rate of 120 MCFD and no condensate at a reservoir pressure of 635 PSI. Average production for the past month in the Mesaverde is 131 MCFD with 0.5 BOPD and 0.5 BWPD. Therefore we recommend allocation of 48% of the gas production to the Chacra and 52% of the gas production to the Mesaverde. Allocation of condensate should be 100% to the Mesaverde as the Chacra does not produce liquids in this area.

OFFSET OPERATORS

Florance D LS #14

Conoco, Inc.
10 Desta Drive West
Midland, Texas 79705

M & G Drilling Co. Inc.
C/O KM Production Co.
P.O. Box 2406
Farmington, NM 87499
