

Ernie Busch

To: Ben Stone
Subject: AMOCO BOLACK E #1 (DHC)
Importance: High

BOLACK E #1
I-33-28N-08W
RECOMMEND: APPROVAL



Southern

Rockies

Business

Unit

October 22, 1996

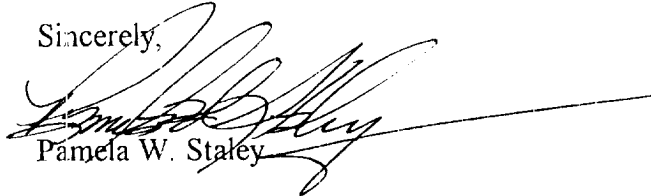
Mr. William J. LeMay, Director
New Mexico Oil Conservation Division
2040 S. Pacheco Street
P. O. Box 6429
Santa Fe, NM 87505

Application for Exception to Rule 303-A- Downhole Commingling
Bolack E #1 Well
Unit L Section 33-T28N-R8W 30-c45-2410.3
Blanco Mesaverde and Basin Dakota 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

RECEIVED
OCT. 28 1996

OIL CON. DIV.
DIST. 3

DISTRICT I
P.O. Box 1990, Hobbs NM 88241-1990

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-107-A
New 3-12-96

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
1300 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		Address	
BOLACK E	1	I-33-28N-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 000329 API NO. 3004524103 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 MESAVERDE 72319		BASIN DAKOTA 71599
2. Top and Bottom of Pay Section (Perforations)	4284' - 5312' PROPOSED		6684' - 6844'
3. Type of production (Oil or Gas)	GAS		GAS
4. Method of Production (Flowing or Artificial Lift)	FLOWING		FLOWING
5. Bottomhole Pressure	a. (Current) 680 PSI	a.	a. 850 PSI
Oil Zones - Artificial Lift: Gas & Oil - Flowing: Estimated Current All Gas Zones: Measured Current Estimated or Measured Original	b. (Original) 940 PSI	b.	b. 2450 PSI
6. Oil Gravity (* API) or Gas BTU Content	1259 BTU / 49 DEG API		1233 BTU / 59 DEG API
7. Producing or Shut-In?	NEW		PRODUCING
Production Marginal? (yes or no)	NO		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: EST Rates: 250 MCFD 1 BCPD 0 BWPD	Date: Rates:	Date: Rates:
• If Producing, give date and oil/gas/water rates of recent test (within 90 days)	Date: Rates:	Date: Rates:	10/96 30 MCFD 0.5 BCPD 0 BWPD
8. Fixed Percentage Allocation Formula - % for each zone	Oil: 67 % Gas 89 %	Oil: % Gas %	Oil: 33 % Gas 11 %

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)

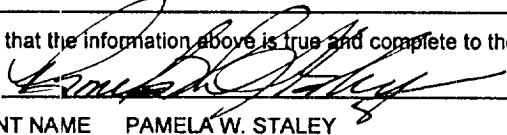
14. If this well is on, or communitized with, state or federal lands, either the Commissioner of Public Lands or the United States Bureau of Land Management has been notified in writing of this application. ☒ Yes ☐ No NM-012202

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 ENGR DATE 10/22/96
TYPE OR PRINT NAME PAMELA W. STALEY TELEPHONE NO. (303) 830-5344

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
811 South First, Artesia, NM 88210
District III
1000 Rto Branos Rd., Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-102
Revised October 18, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 3004524103	Pool Code 72319	Pool Name Blanco Mesaverde
Property Code 000329	Property Name Bolack E	Well Number 1
OGRID No. 000778	Operator Name Amoco Production Company	Elevation 6042

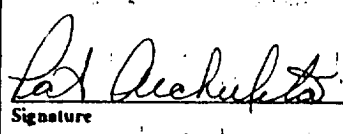
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	33	28N	8W		1640	South	1080	West	San Juan

¹¹ 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
¹² Dedicated Acres 295.36	¹³ Joint or Infill	¹⁴ Consolidation Code		¹⁵ Order No.					

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

16					¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief  Signature Pat Archuleta Printed Name Clerk Title August 14, 1996 Date
1080'					¹⁸ SURVEYOR 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 belief. October 3, 1979 Date of Survey Signature and Seal of Professional Surveyer: 3950 Certificate Number
1640'					

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

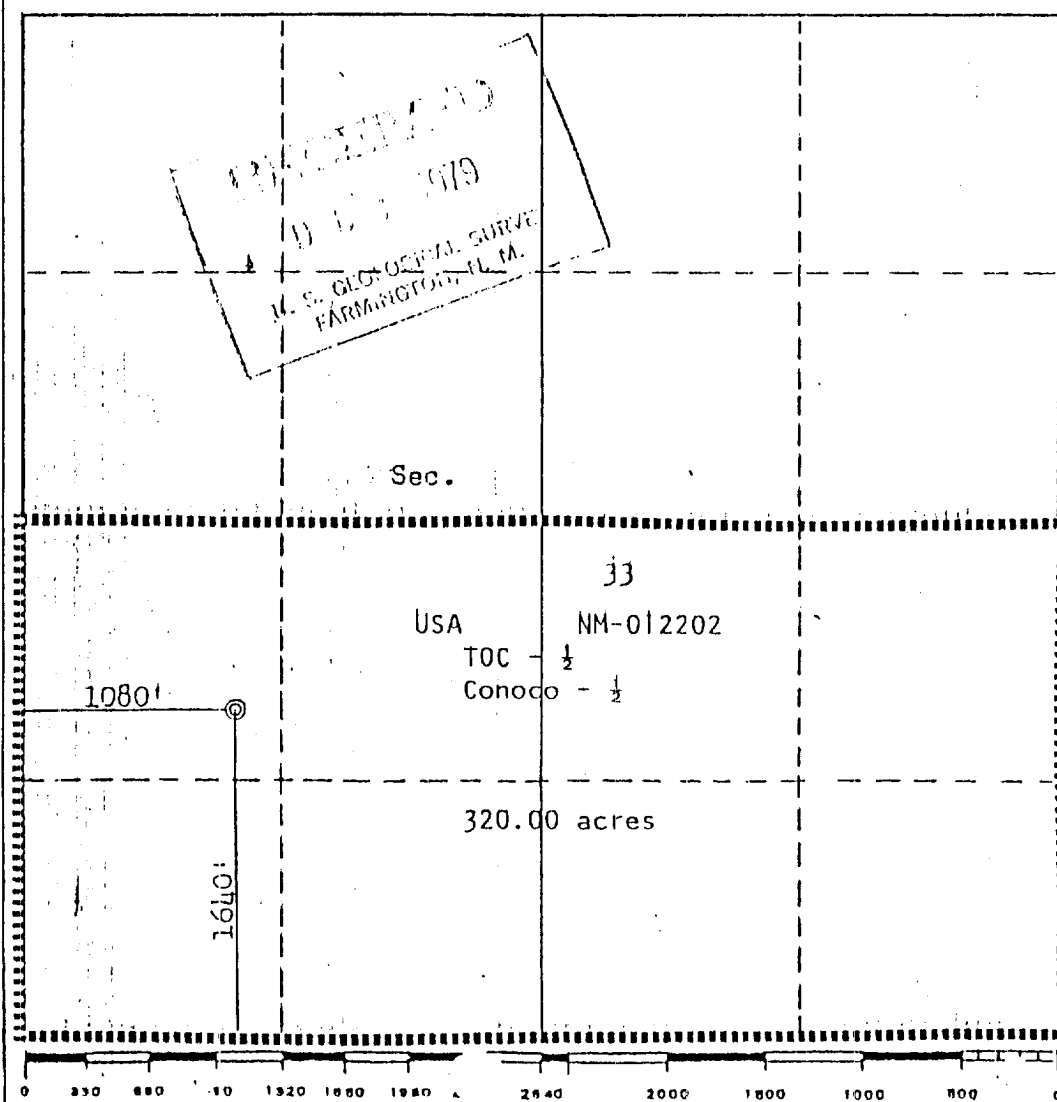
Operator TENNECO OIL COMPANY			Lease BOLACK "E"		Well No. 1
Unit Letter L	Section 33	Township 28N	Range 3W	County San Juan	
Actual Footage Location of Well: 1640 feet from the South line and 1080 feet from the West line					
Ground Level Elev. 6042	Producing Formation Dakota		Pool Basin Dakota	Dedicated Acreage: 320.00 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.

M. Lee Freeman
Name

M. Lee Freeman

Position
Staff Production Analyst

Company
Tenneco Oil Company

Date
December 17, 1979

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

October 30, 1979

Registered Professional Engineer
and/or Land Surveyor

Fred E. Nery Jr.
Fred E. Nery Jr.

Certificate No.

3950

ESTIMATED PRODUCTION AND PRESSURE DATA

Production data for the Mesaverde was estimated from the use of the attached production curves. Rates are estimated to be as follows:

	<u>Mesaverde</u>	<u>Dakota</u>
Gas	250 MCFD	30 MCFD
Condensate	1.0 BCPD	0.5 BCPD

Pressure data taken from current pressure information on the surrounding wells was used to estimate the pressure in the Mesaverde. A map of those rates and pressures is presented as an attachment hereto.

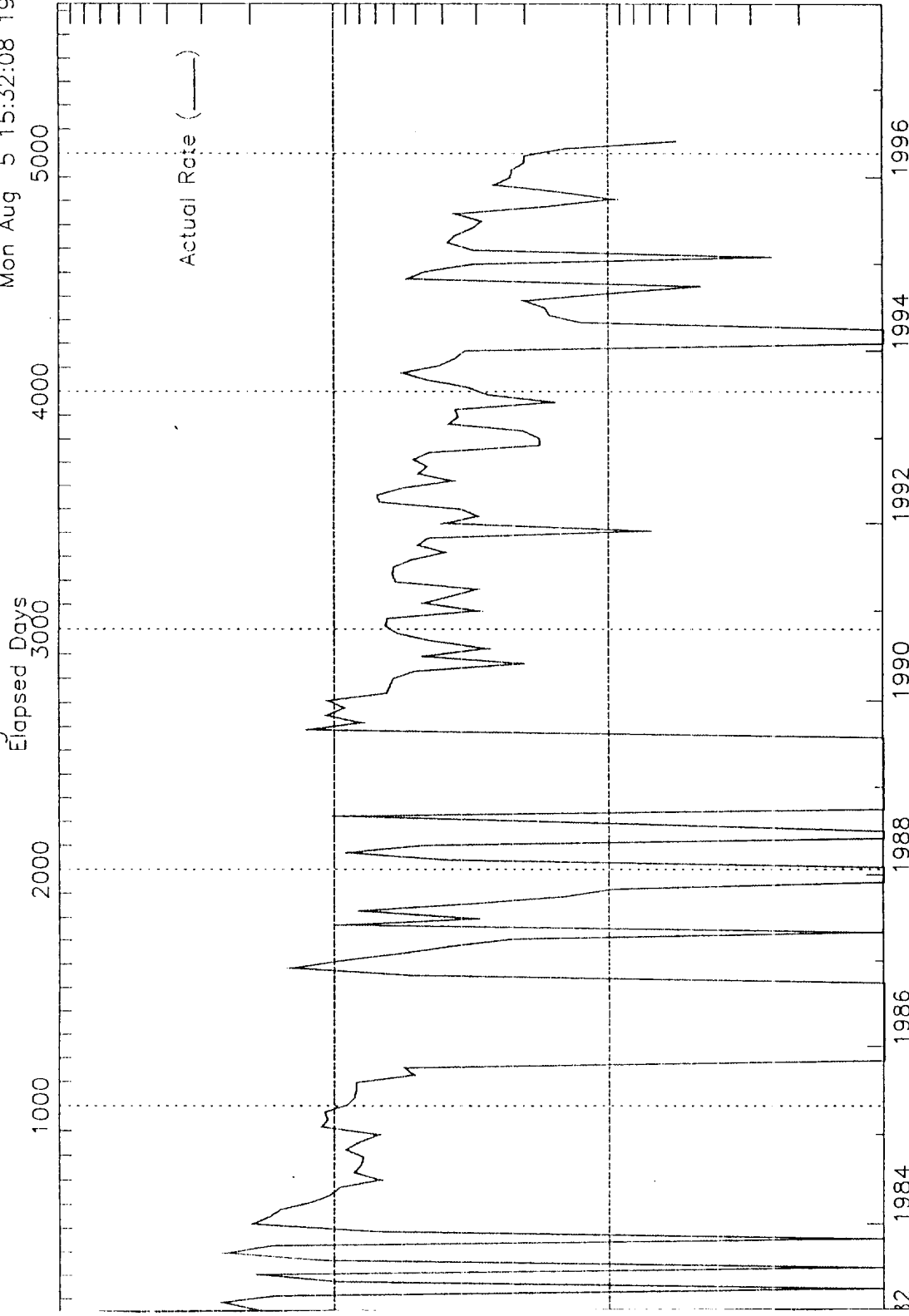
Estimated Reservoir Pressures:

<u>Mesaverde</u>	<u>Dakota</u>
680 PSIG	850 PSIG

Single Well Gas3D

Description 1
Mon Aug 5 15:32:08 1996

15:32:19 1996



Cum Gas= 265.54 MMCF

00452410300 602DKOT

BLACK-E 1

MOCO PRODUCTION COMPANY

For: zmdr16
Engr: zijk06
Operator- AMOCO PRODUCTION COMPANY

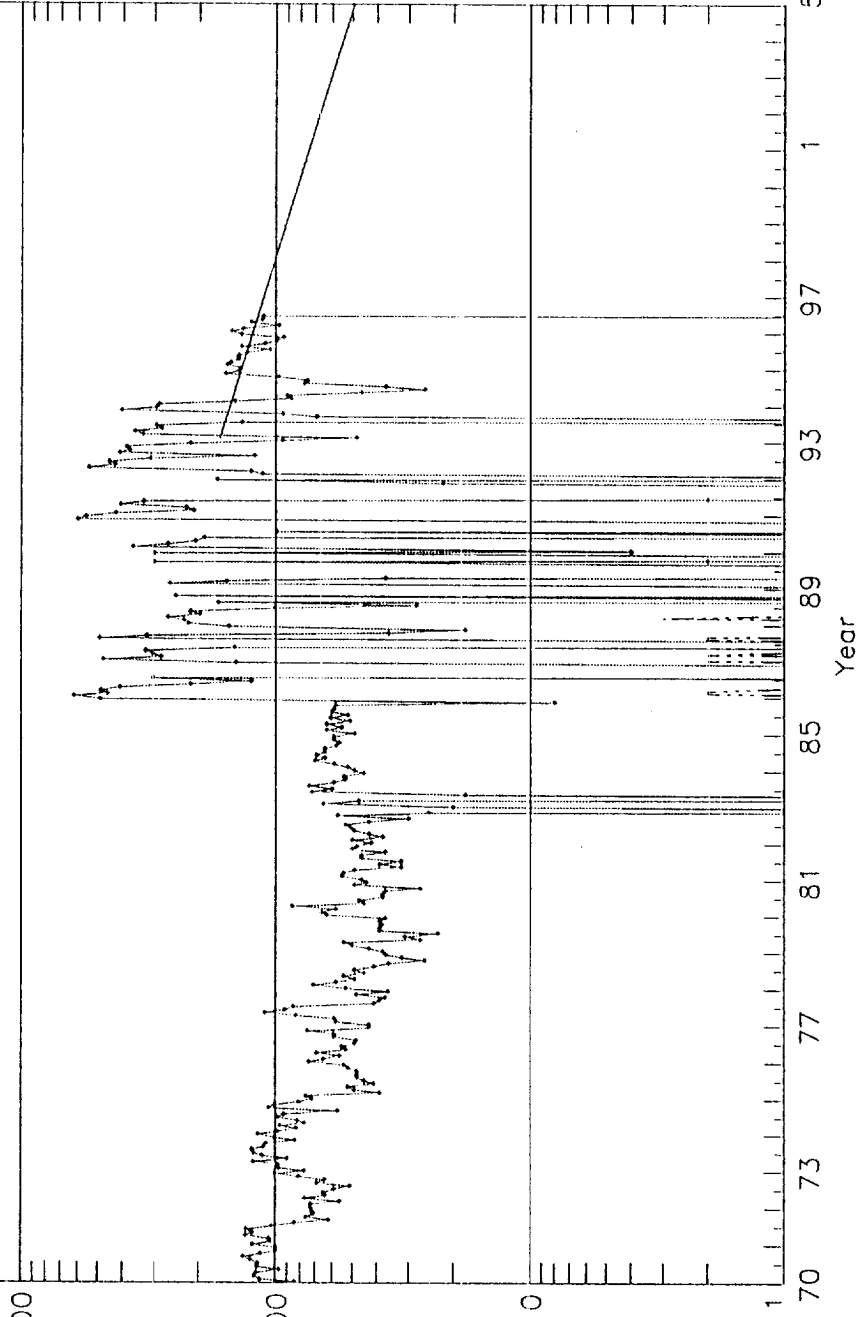
BOLACK 1

300450701900 604MVRD

APC_WI - 1.0000000

CumG_70 - 815260
CumO_70 - 0
CumGAS - 1860124
CumOIL - 0

gas, MCFD



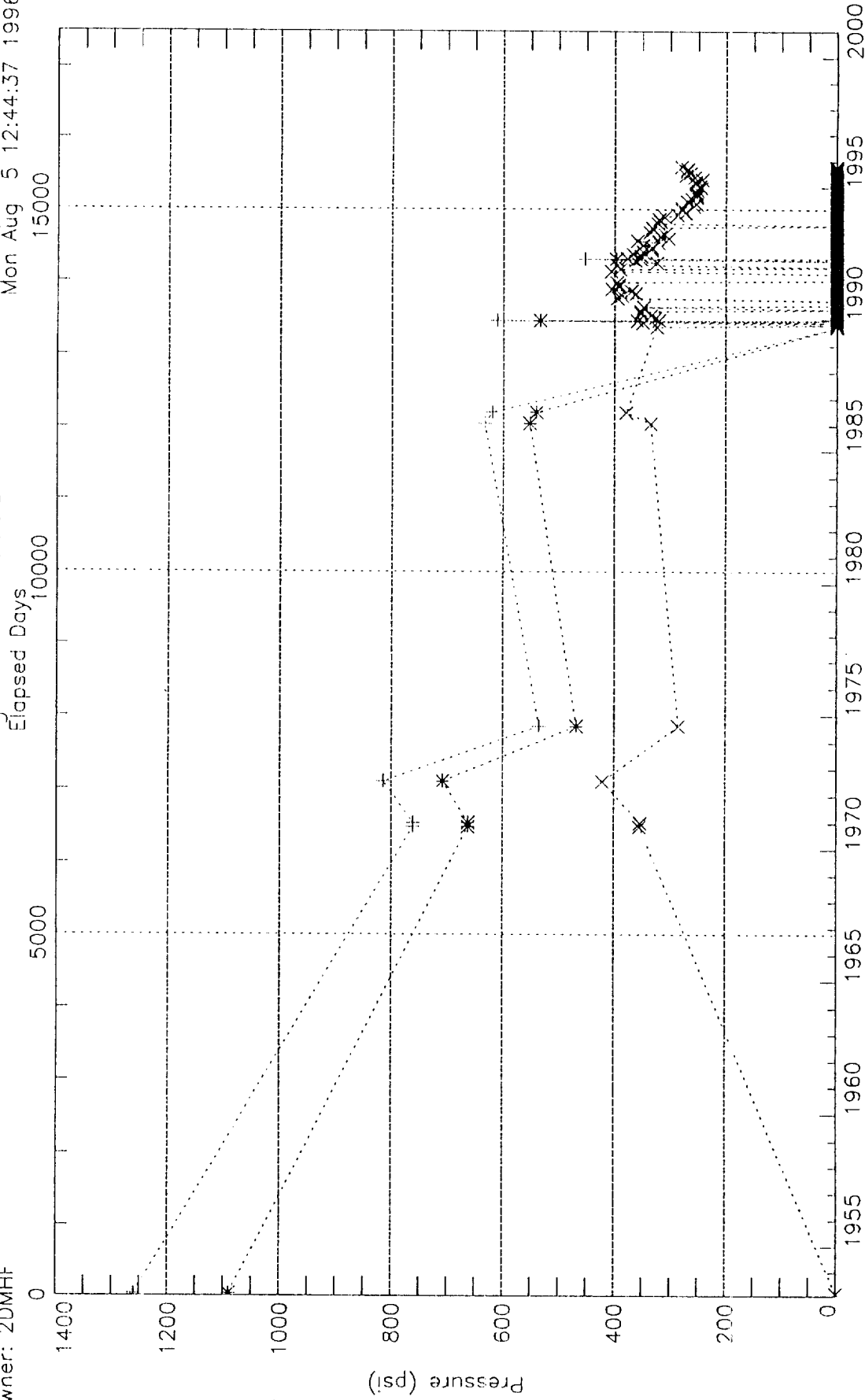
DCLN
CurrQ
RemRes
EUR
Fit_date

Reserves
0.1020
NA
391207
2251331
NA

User: zmdr16
Owner: 2DMHF

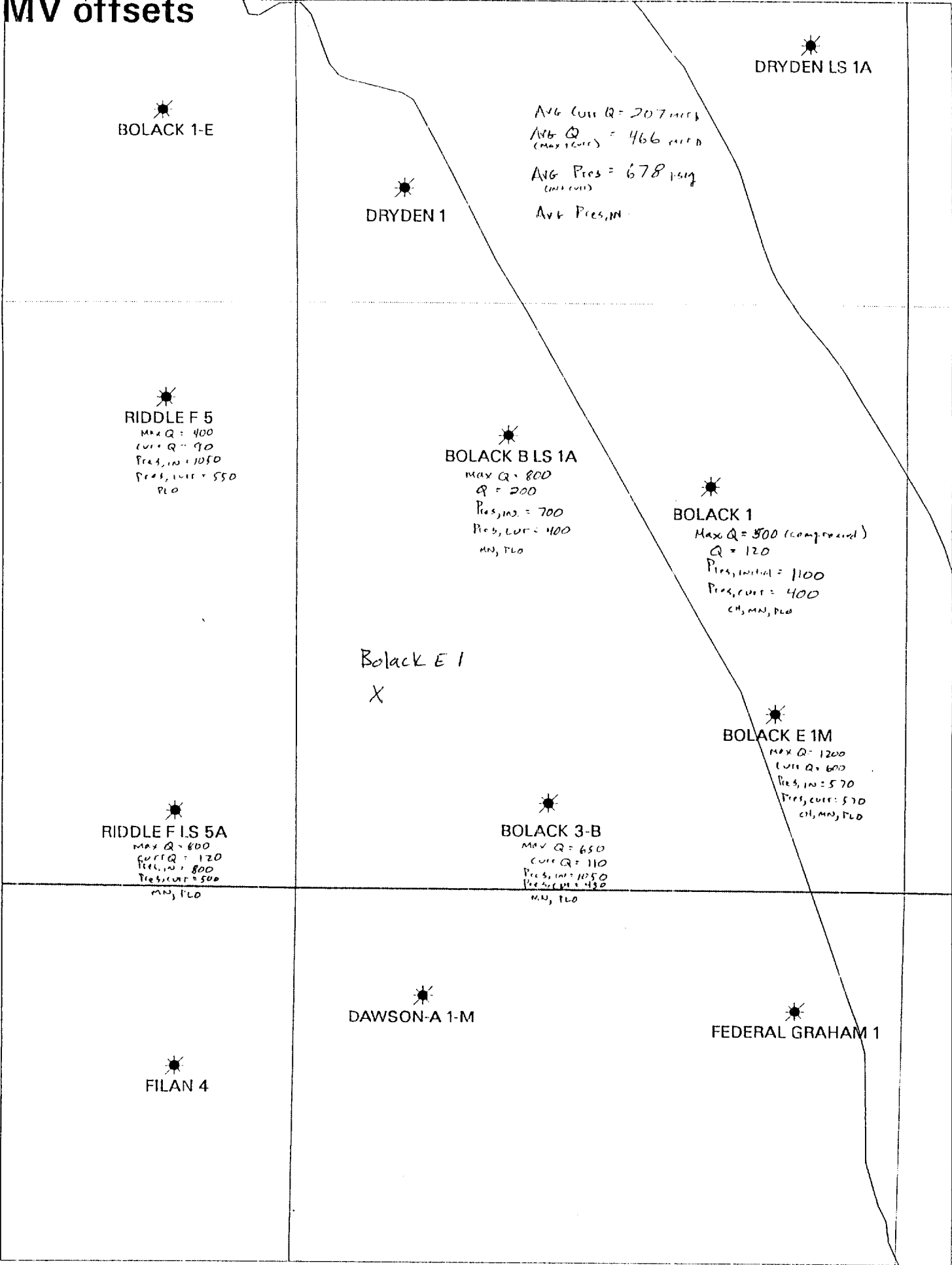
Single Well Gas3D

Description 1
Mon Aug 5 12:44:37 1996



Well ID: 300450701900 604MVRD
Well Name: BOLACK 1
Operator: AMOCO PRODUCTION COMPANY

1 MV offsets

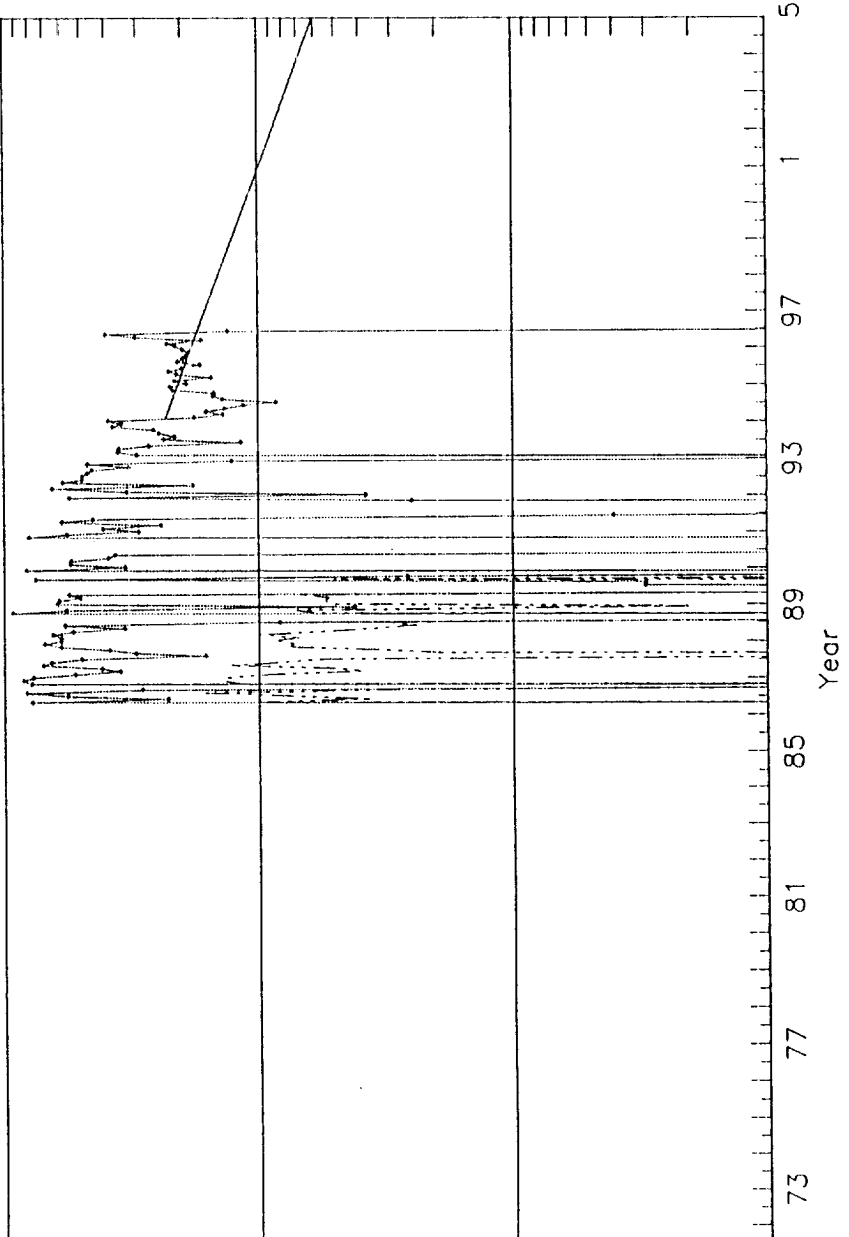


For: zmdr16
Engr: zcsw10
Operator- AMOCO PRODUCTION COMPANY

B LS 1A
2656000 604MVRD

APC_WI - 1.00000000

CumG_70 - 0
CumO_70 - 0
CumGAS - 1183148
CumOIL - 0



DCLN 0.1232
CurrQ NA
RemRes 485922
EUR 1669070
Fit_date NA

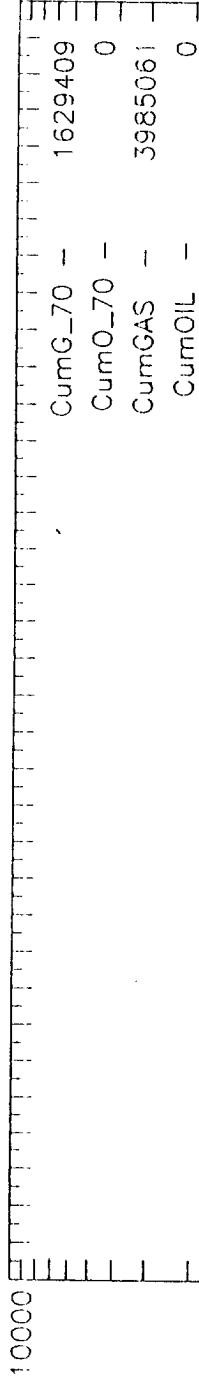
For: zmdr16
Engr: zcsw10

BOLACK 3-B

Operator- EL PASO NATURAL GAS

300450694600 604MVRD

APC_WI - 1.0000000



gas, MCFD

DCLN 0.0881
CurrQ NA
RemRes 283428
EUR 4268489
Fit_date NA
Reserves

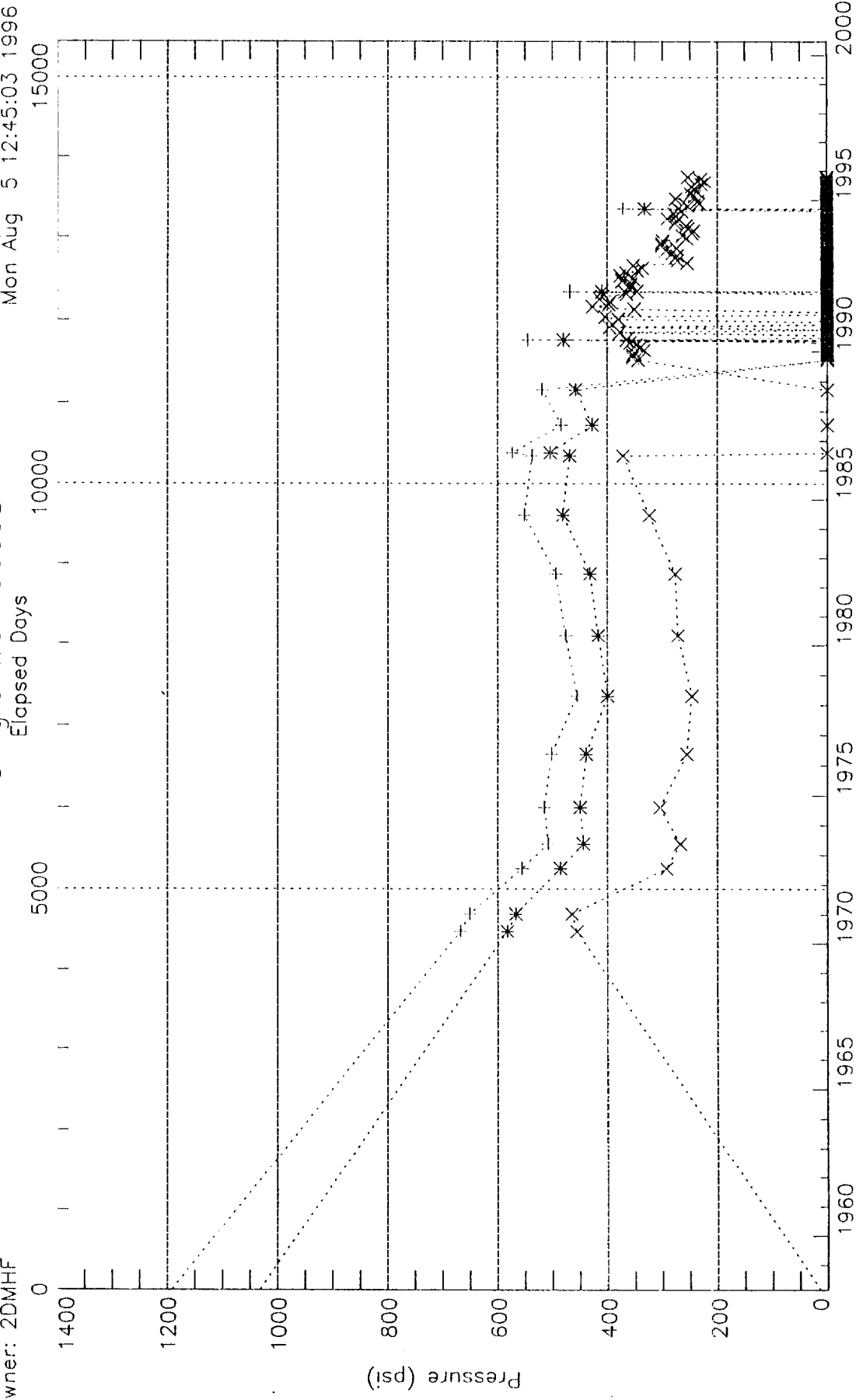
Year

Last Op. Forecast by zcsw10 in 06/1996

User: zmdr16
Owner: 2DMHF

Single Well Gas3D

Description 1
Mon Aug 5 12:45:03 1996



Date (Years)

Well ID: 300450694600 604MVRD
Well Name: BOLACK 3-B
Operator: EL PASO NATURAL GAS

For: zmdr16
Engr: zcsw10

RIDDLE F 5
300450705200 604MVRD
Operator— AMOCO PRODUCTION COMPANY

APC_WI — 1.0000000

CumG_70 —	1425107
CumO_70 —	0
CumGAS —	3444758
CumOIL —	0

gas, MCFD

DCLN	0.0677
CurrQ	NA
RemRes	394827
EUR	3839585
Fit_date	NA

Reserves

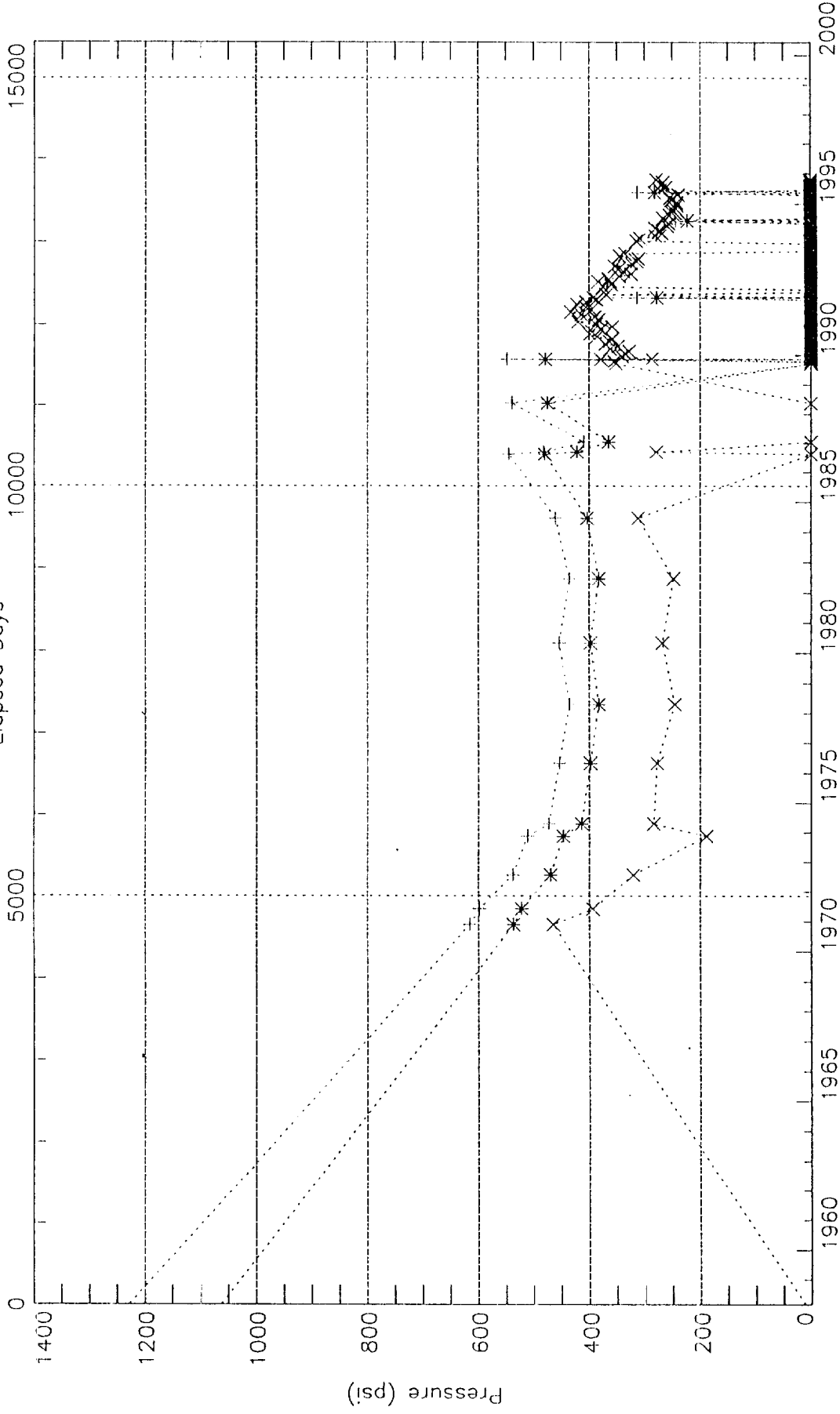
Year

Last Op. Forecast by zcsw10 in 06/1996

User: zmdr16
Owner: 2DMHF

Single Well Gas3D
Elapsed Days

Description 1
Mon Aug 5 12:45:20 1996



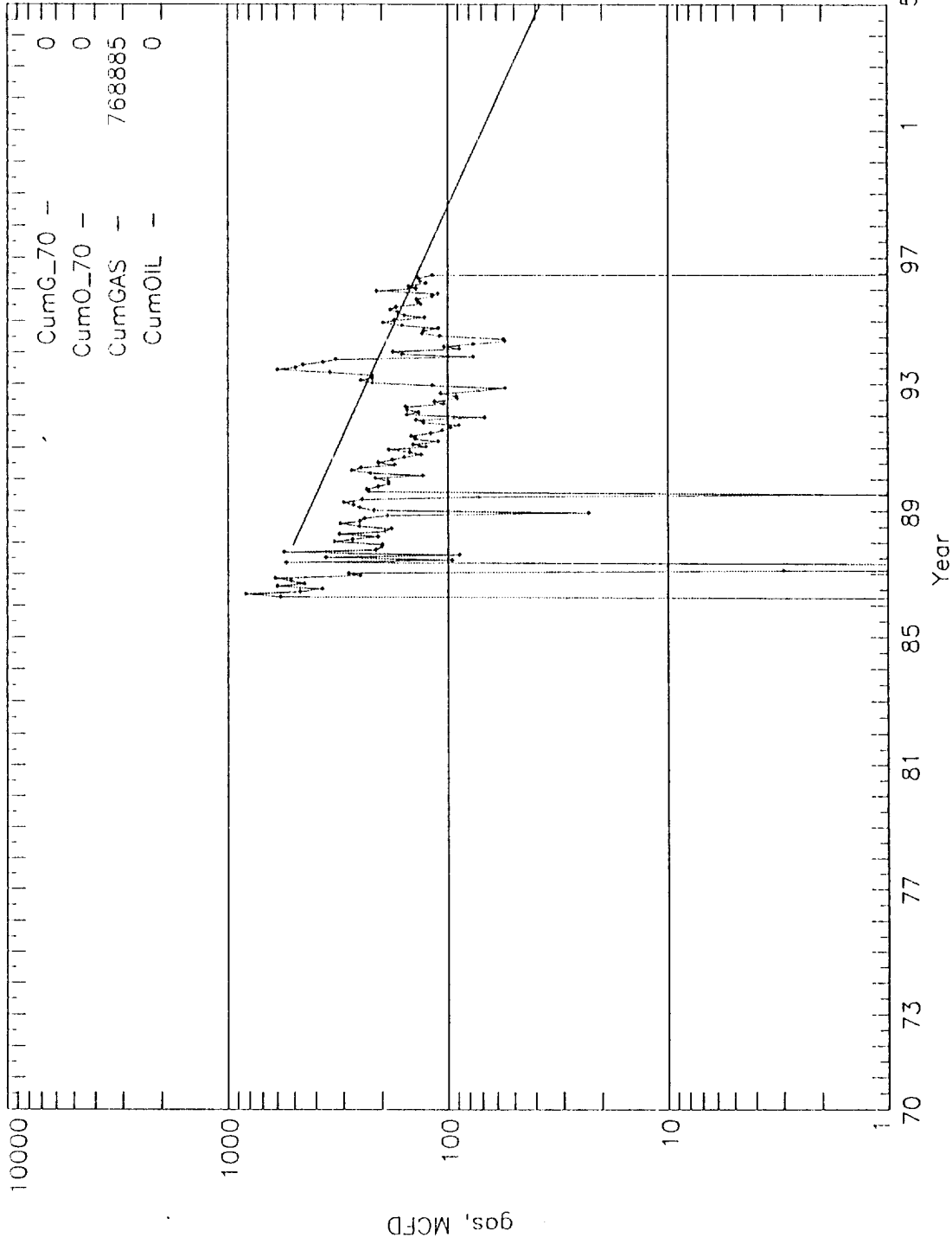
Well ID: 300450705200 604MVRD

Well Name: RIDDLE F 5

Operator: AMOCO PRODUCTION COMPANY

RIDDLE F LS 5A
300452658000 604MVRD
Operator- AMOCO PRODUCTION COMPANY
APC_WI - 1.00000000

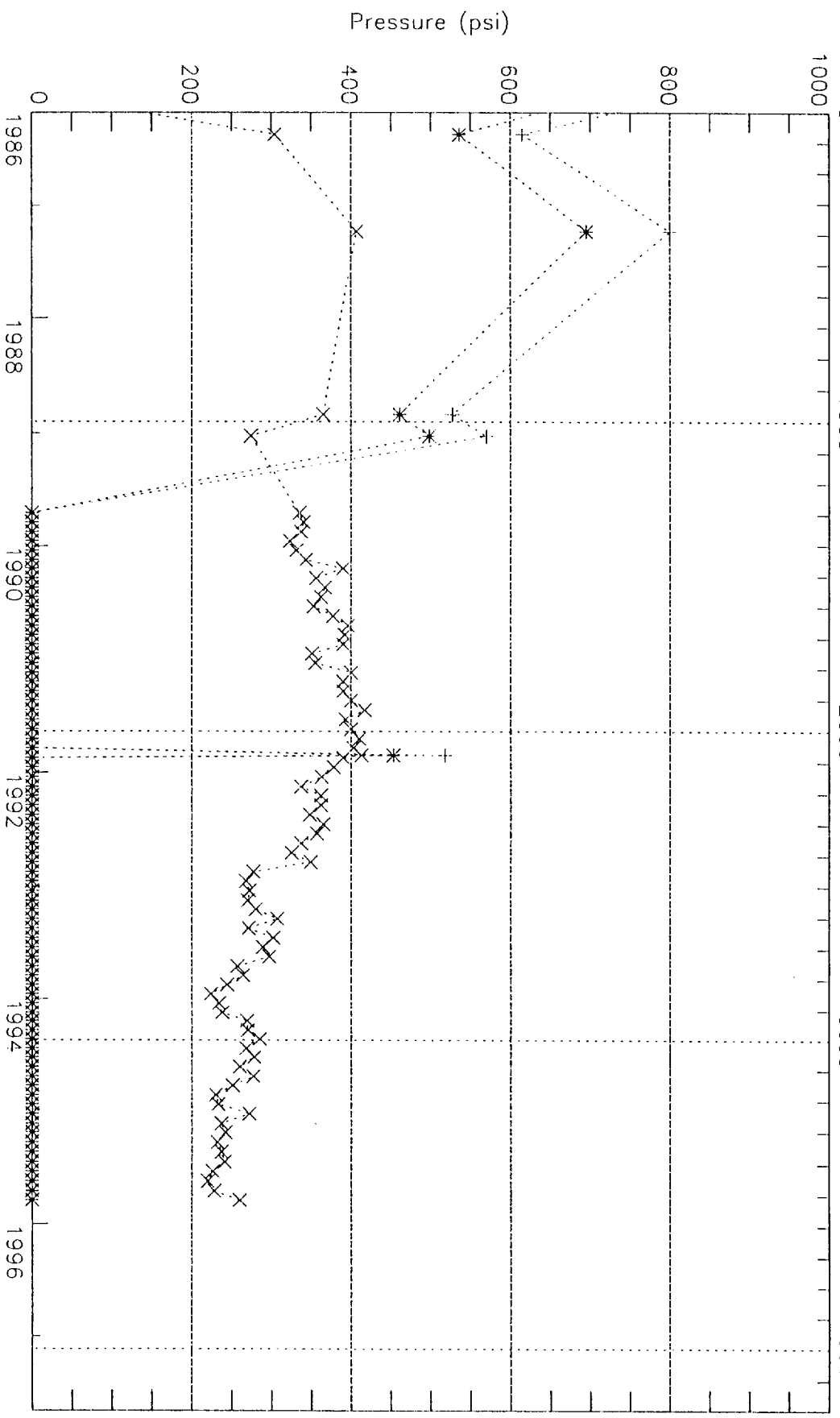
For: zmdr16
Engc: zrar06



DCLN 0.1515
CurrQ NA
RemRes 310863
EUR 1079748
Fit_date NA
Reserves

User: zmdr16
Owner: 2DMHF

Single Well Gas3D
Elapsed Days
Description 1
Mon Aug 5 12:45:32 1996



Well ID: 300452658000 604MVRD
Well Name: RIDDLE F LS 5A
Operator: AMOCO PRODUCTION COMPANY

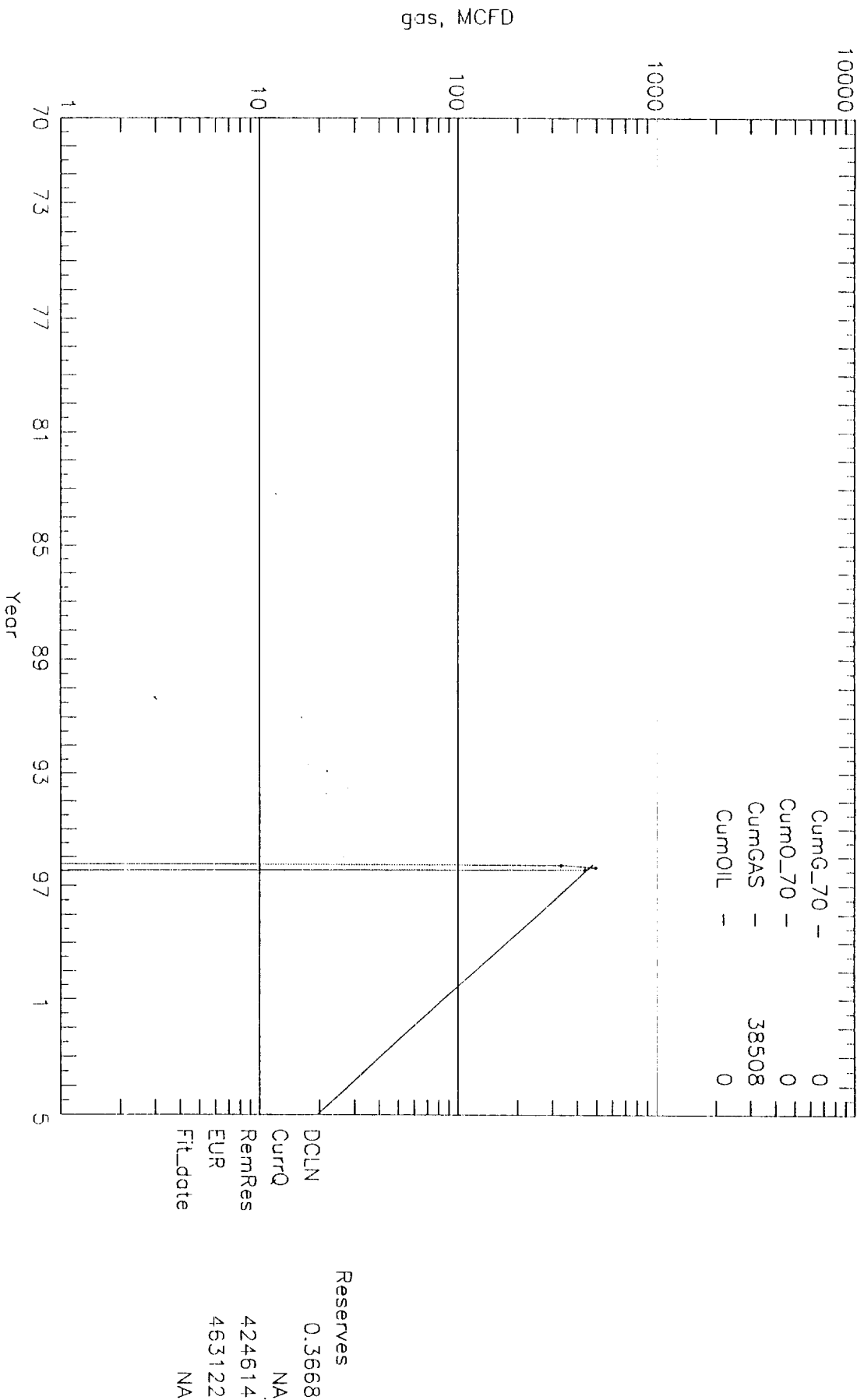
WH_SIP (*)
3HP (+)
WH_FTP (x)

BOLACK E 1M

300452925100 604MVRD

For: zmdr16
Operator- AMOCO PRODUCTION COMPANY
Engr: zcsw10

APC_WI - 1.0000000



OFFSET OPERATORS

Bolack E #1

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

R & G Drilling Co.
c/o KM Production Co
P.O. Box 2406
Farmington, NM 87499

Bledsoe Petroleum Corp.
1717 Main
Suite 5850
Dallas, Texas 75201

Great Lakes Chemical Corporation
P.O. Box 2200
W. Lafayette, IN 47906

Lively Exploration Co.
1300 Post Oak #1900
Houston, Texas 77056

Koch Oil Company
P.O. Box 2256
Wichita, KS 67201