

Ernie Busch

From: Ernie Busch
Sent: Friday, November 22, 1996 10:09 AM
To: Ben Stone
Subject: AMOCO POLLOCK COM E #1R (DHC)
Importance: High

~~POLLOCK COM E #1R~~
J-28-29N-10W
RECOMMEND: APPROVAL

Harold B Chapson #1

2 Operator: SANTA FE ENERGY RESOURCES INC	3 OGRID: 020305	4 Month/Year 09/96	6 Page 7 of 29
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DISPOSITION OF OIL, GAS, AND WATER																
PRODUCTION																
INJECTION			PRODUCTION													
7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
POOL NO. AND NAME Property NO. and Name Well No. & U-L-S-T-R API No.	C O D E 1	Volume	Pressure	C O D E 2	Barrels of oil/conden- sate produced	Barrels of water produced	MCF Gas Produced	Days Prod- uced	C O D E 3	Point of Disposition	Gas BTU or Oil API Gravity	Oil on hand at beginning of month	Volume (Bbts/mcf)	Transporter OGRID	C O D E 4	Oil on hand at end of month
016775 OLD RANCH CANYON 7 FED #1																
001 B-07-22S-24E	S				0	0	0	00		2811465	40.7	24	608	138648		31
30-015-28011									O	2811465	1224		186462	025561		
002 F-07-22S-24E	P				615	61432	187104	30	G	2811466			12			
30-015-28075									G				630			
									W				61438			
016776 RIGHTHAND CANYON #1																
001 E-34-21S-24E	F				53	8223	371	04	O	2811465	40.7	6	56	138648		3
30-015-27046									O	2811465	1224		366	025561		
									G	2811466			5			
017286 JONES CANYON 4 FED #1									W				8235			
001 N-04-22S-24E	P				4611	95687	11188	30	O	2811465	40.7	183	4563	138648		231
30-015-28076									O	2811465	1224		11036	025561		
									G	2811466			3			
33745 INGLE WELLS (DELAWARE)									G				149			
016661 STERLING SILVER 34 FEDERAL									W				95676			
002 D-34-23S-31E																
30-015-27936																
003 C-34-23S-31E	P				861	1926	1391	30								



Southern

Rockies

Business

Unit

October 23, 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
Pollock Com E #1R Well
Unit J Section 28-T29N-R10W
Basin Fruitland and Aztec Pictured Cliffs Pools
San Juan County, New Mexico

RECEIVED
OCT 28 1996

OIL CON. DIV.
DIST. 3

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: Steve Webb
Pat Archuleta
Wellfile
Proration File

Frank Chavez, Supervisor
NMOCD District III
1000 Rio Brazos Road
Aztec, NM 87410

DISTRICT 1
P.O. Box 1980, Hobbs NM 88241-1980

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

 X Administrative Hearing

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

EXISTING WELLBORE
X YES NO

APPLICATION FOR DOWNHOLE COMMINGLING

Amoco Production Company

PO Box 800 Denver, CO 80201

Operator	Address
Pollock Com E	J28, T29N-R10W
1R	San Juan
Lease	County
Well No.	Unit Ltr. - Sec Twp - Rge

Spacing Unit Lease Types: (check 1 or more)

OGRID NO.	Property Code	000366	API NO.	3004524247	Federal	State	(and/or) Fee	X
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The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zone	Lower Zone
1. Pool Name and Pool Code	Basin Fruitland 71629		Aztec Pictured Cliffs 71280
2. Top and Bottom of Pay Section (Perforations)	Estimated: 1580'-1790'		Estimated 1800-1840'
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) 180 psia b. (Original) 350 psia	a. b.	a. 209 psia b. 700 psia
6. Oil Gravity (* API) or Gas BTU Content	925 BTU		1100 BTU
7. Producing or Shut-In?	New Zone		New Zone
Production Marginal? (yes or no)	No		Yes
• 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:	Date: Rates:	Date: Rates:
8. Fixed Percentage Allocation Formula -% for each zone	Oil: 0 % Gas 76 %	Oil: % Gas %	Oil: 100 % Gas 24 %

District I
PO Box 1980, Hobbs, NM 88241-1980

District II
811 South First, Artesia, NM 88210

District III
1000 Rio Brazos 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

¹ API Number 3004524247	² Pool Code 71280	³ Pool Name Aztec Pictured Cliffs
⁴ Property Code 000366	⁵ Property Name <i>Pollock com E</i> Harold B. Chapson	⁶ Well Number 1R
⁷ OGRID No. 000778	⁸ Operator Name Amoco Production Company	⁹ Elevation 5510'

¹⁰ Surface Location

UI or lot no. J	Section 28 32	Township 29N	Range 10W	Lot Idn	Feet from the 1800	North/South Line South	Feet from the 1650	East/West Line East	County San Juan
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¹¹ Bottom Hole Location If Different From Surface

UI or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West Line	County
¹² Dedicated Acres 160	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order Number						

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 RECEIVED SEP 27 1996 OIL CON. DIV. DIST. 3				¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief <i>Patty Haelele</i> Signature Patty Haelele Printed Name Staff Assistant Title 9/24/96 Date
				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. 3/14/80 Date of Survey Signature and Seal of Professional Surveyer: on file 3950 Certificate Number

District I
PO Box 1980, Hobbs, NM 88241-1980

District II
811 South First, Artesia, NM 88210

District III
1000 Rio Brazos 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

C-104 *For NSC*
(S)
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

¹ API Number 3004524247	² Pool Code 71629	³ Pool Name Basin Fruitland Coal
⁴ Property Code 000366	⁵ Property Name <i>Pollock com B</i> Harold B. Chapson	⁶ Well Number 1R
⁷ OGRID No. 000778	⁸ Operator Name Amoco Production Company	⁹ Elevation 5510'

¹⁰ Surface Location

Ul or lot no. J	Section <i>28</i> 32	Township 29N	Range 10W	Lot.Idn	Feet from the 1800	North/South Line South	Feet from the 1650	East/West Line East	County San Juan
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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 320	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order Number						

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 RECEIVED SEP 27 1998 OIL CON. DIV. DIST. 3				¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief <i>Patty Haebele</i> Signature Patty Haebele Printed Name Staff Assistant Title 9/24/96 Date
				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. 3/14/80 Date of Survey Signature and Seal of Professional Surveyer: on file 3950 Certificate Number

Pressures

POLLOCK COM E #1R Downhole Commingling Data				
Estimated Reservoir Pressures:				
Pictured Cliffs:				
				Calculated
		SIWHP	Mid-perf	Res. Press.
Well Name	SI Date	psig	Depth, ft	psia
Armenta GC A #1	Sep-96	175	1829	224
Maddox GC A #1	Sep-96	148	1845	197
Sanchez GC #1	May-96	160	1800	208
M. Pollock GC #1	1981	210	1840	259
G.F. Bruington #1	1988	200	1836	249
Anticipated Reservoir Pressure:				<u>209</u>
Fruitland				
Morris GC #1	Jan-96	130	1770	177
Anticipated Reservoir Pressure:				<u>180</u>
Note: Only FT within reasonable proximity that I have pressure data on.				

Chart1

Well: ARMENTA GC A 001-PC (92388101)

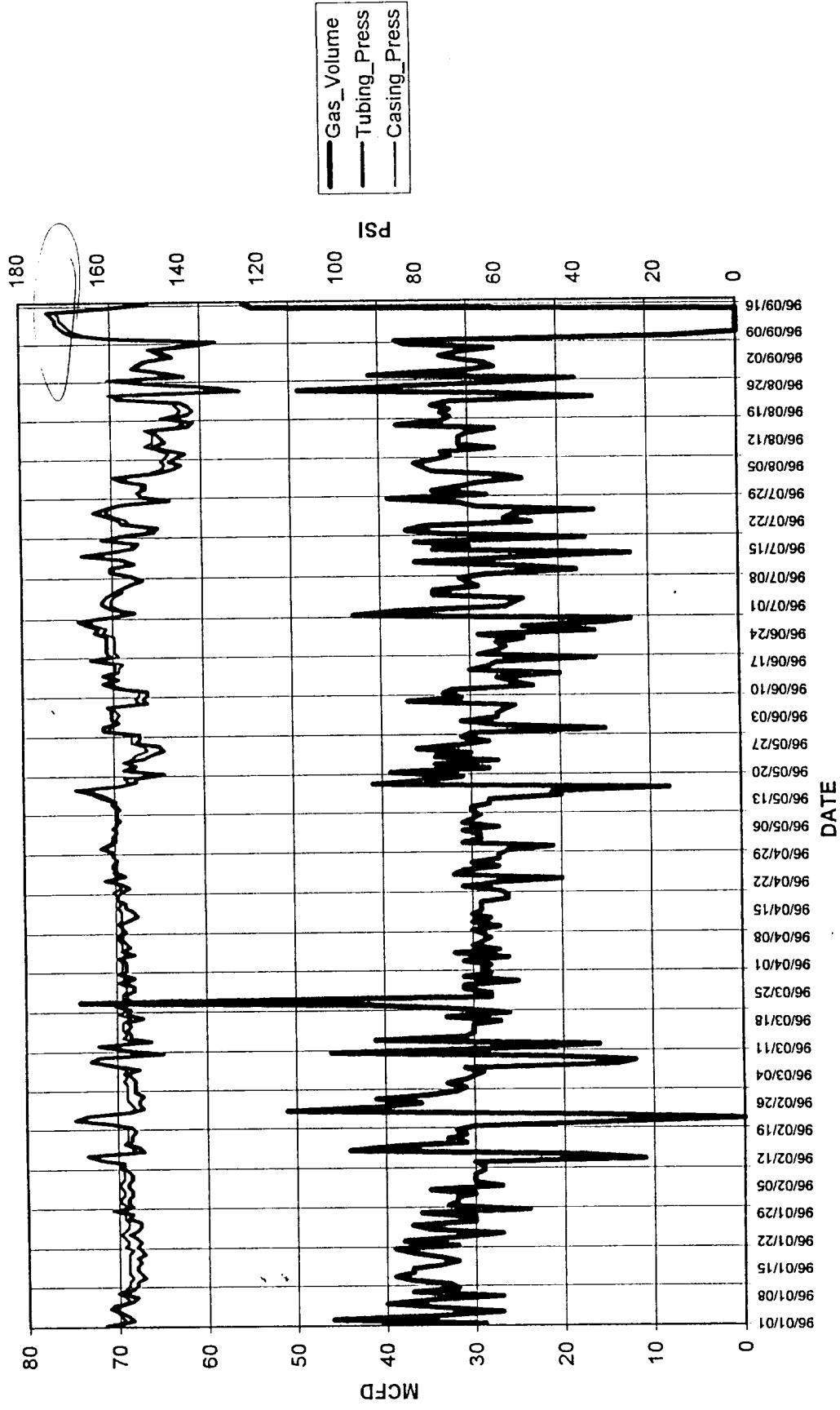


Chart1

Well: MADDOX GC A 001-PC (92426101)

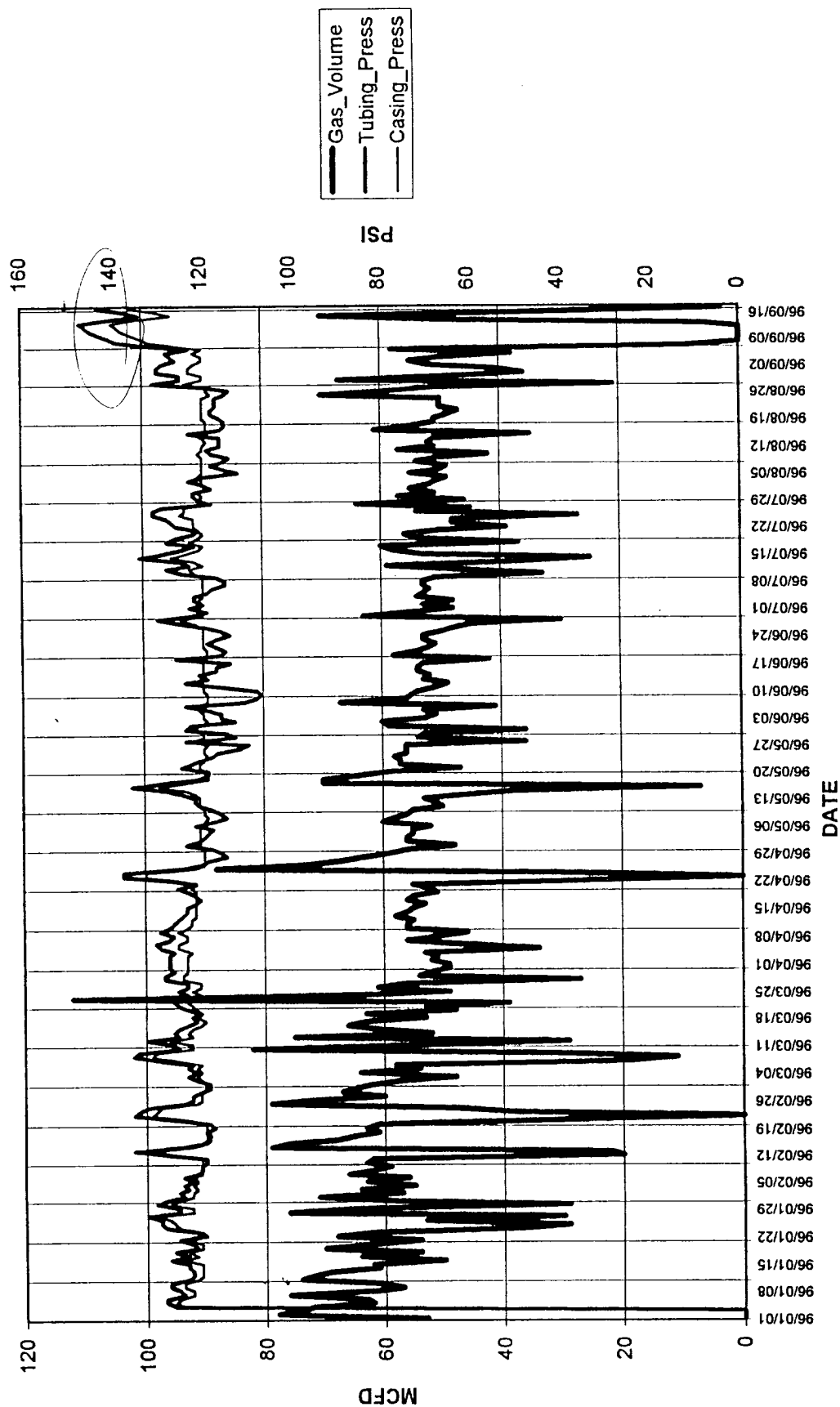
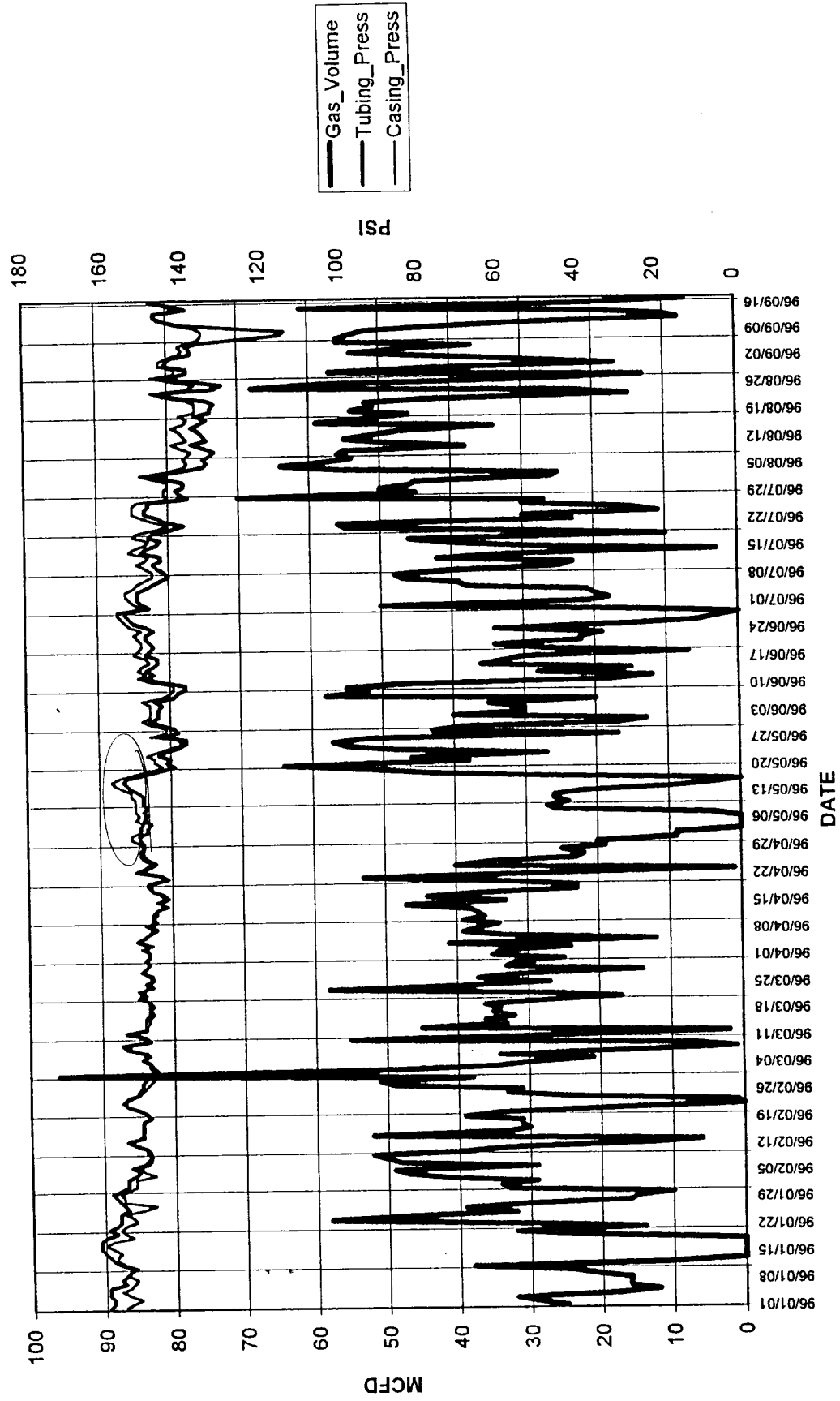
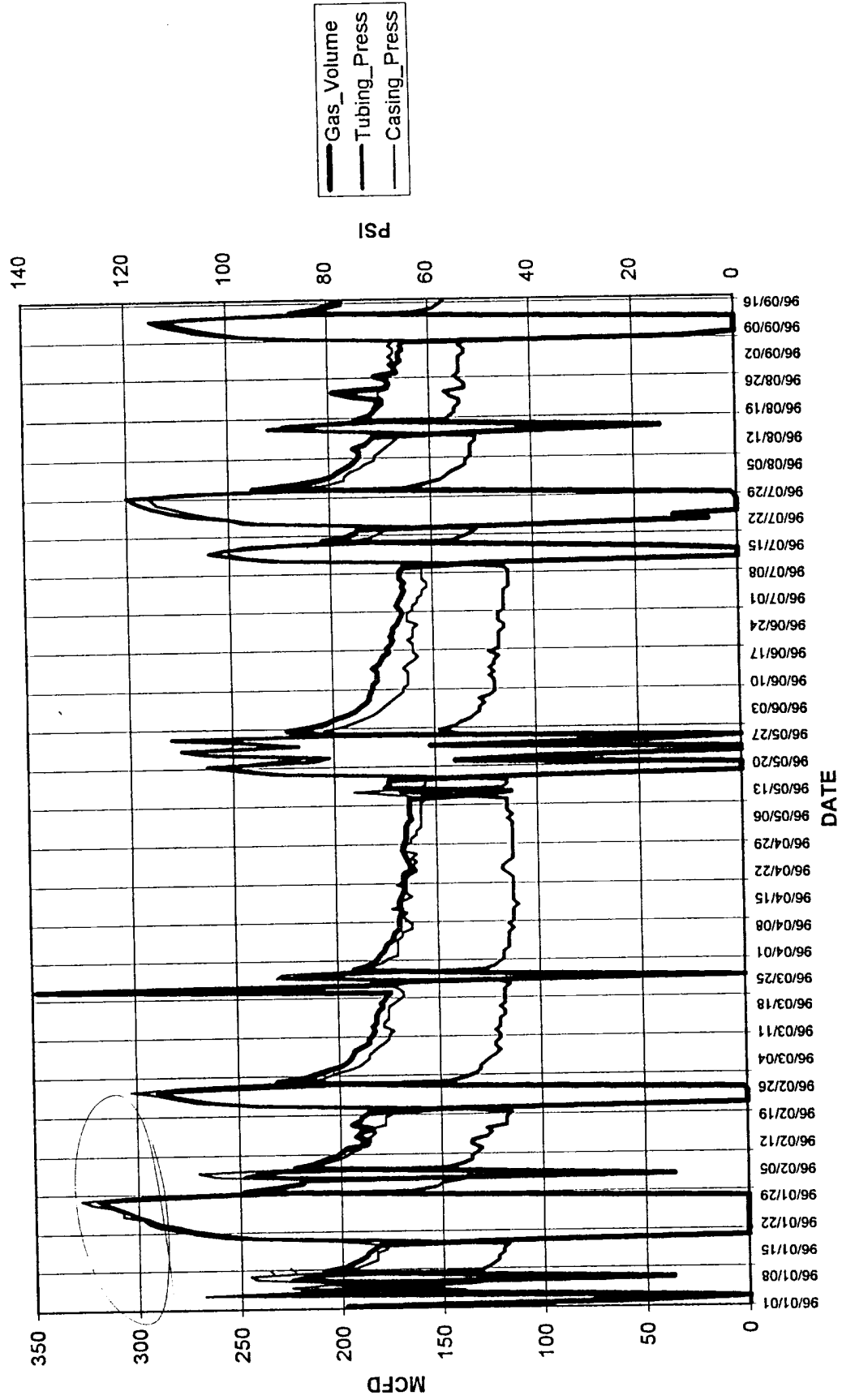


Chart1

Well: SANCHEZ GC 001-PC (92439701)



Well: MORRIS GC 001-FT (92433902)



Dwights

240

Lease: M POLLOCK GAS COM 000001

09/18/96

Retrieval Code: 251,045,29N10W28PPKPC

720

800

210

630

700

180

540

600

150

450

500

120

360

400

90

270

300

60

180

200

30

90

100

0

0

0

0 60 120 180 240 300 360 420 480 540 Gas(MMCF)

WHSIP

✕

County: SAN JUAN, NM

F.P. Date: 07/57

BHP/Z

†

WHFP

0

Field: AZTEC (PICTURED CLIFFS) PC

Oil Cum: 0 bbl

Reservoir: PICTURED CLIFFS

Gas Cum: 573.5 mmcf

Operator: AMOCO PRODUCTION CO

Location: 28P 29N 10W

Dwights

200

Lease: G F BRUINGTON 000001

09/18/96

Retrieval Code: 251,045,29N10W28M00PC

720

8

175

630

7

150

540

6

125

450

5

100

360

4

75

270

3

50

180

2

25

90

1

0

0

0

0 50 100 150 200 250 300 350 400 450 Gas(MMCF)

WHSIP

✕

County: SAN JUAN, NM

F.P. Date: 11/53

BHP/Z

+

WHFP

0

Field: AZTEC (PICTURED CLIFFS) PC

Oil Cum: 0 bbl

Reservoir: PICTURED CLIFFS

Gas Cum: 436.3 mmcf

Operator: HARVEY HELEN LORAIN

Location: 28M 29N 10W

ALLOCATION METHOD

Attached are production curves from surrounding wells in the Pictured Cliffs and the Fruitland formations. Production rates were estimated using these curves and are tabulated on the following page. Allocations are made from those rate predictions and are also shown on the next page. No liquids are anticipated from the Fruitland Coal, so a 100% allocation was made to the Pictured Cliffs formation.

Decline Rates

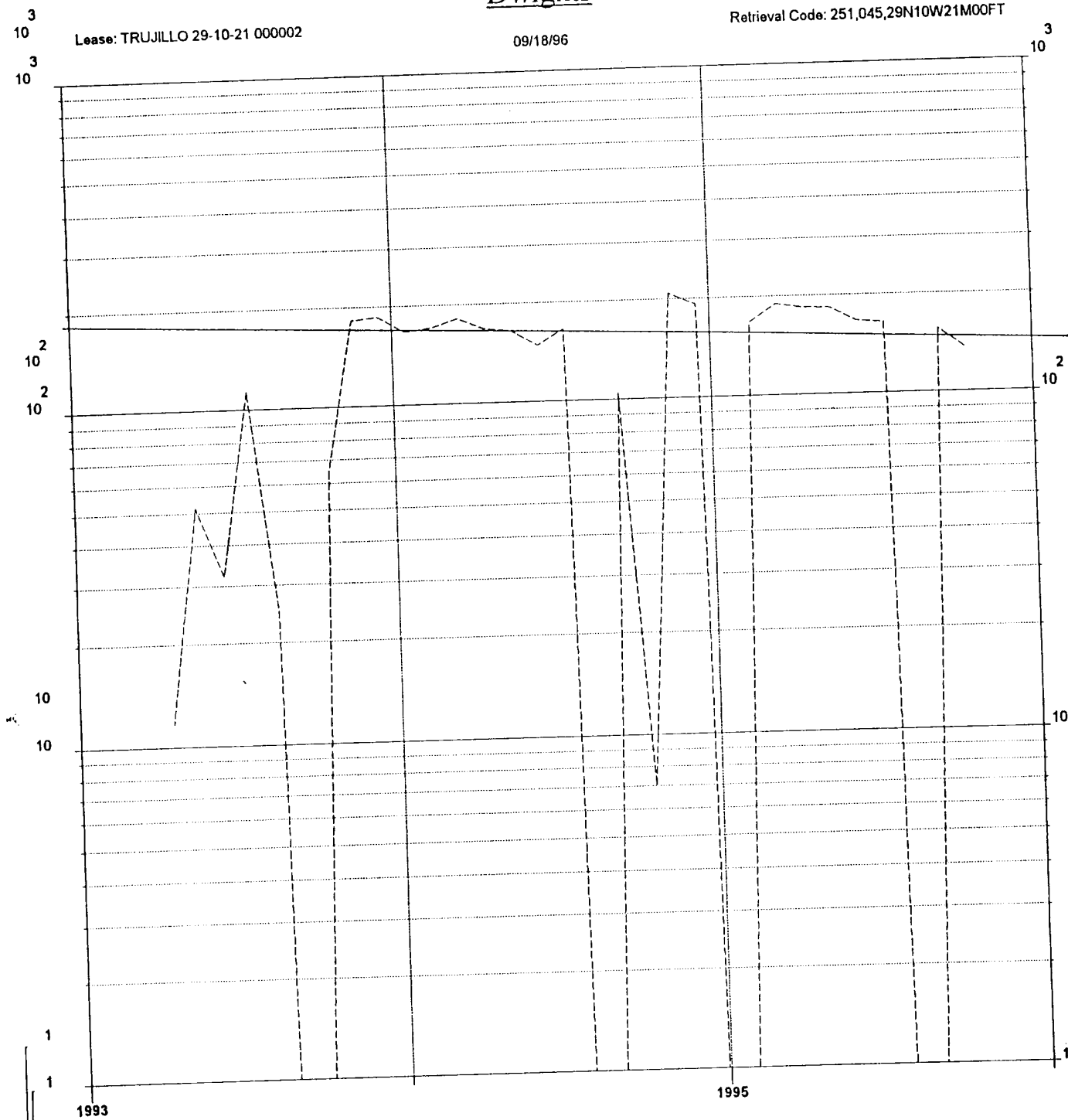
POLLOCK COME #1R Downhole Commingling Data							
Production Allocation							
FT Performance:							
		Exponential					
Well Name	Operator	Decline Rate					
Candelaria #2	SGI	0.061					
Davis #2	SGI	0.084					
State #1	SGI	0.086					
Trujillo #2	SGI	0.084					
Average		0.079					
Estimated IP from offsets:			130 MCFD	Note: Requires wellhead compression			
PC Performance:							
		Exponential					
Well Name	Operator	Decline Rate					
Abrams GC D #1	APC	0.090					
Armenta GC A #1	APC	0.074					
G. F. Bruington #1	PxA	0.102					
M. Pollock GC #1	PxA	0.094					
Maddox GC A #1	APC	0.081					
New Mexico Fed D #1D	Four Star	0.078					
Prespentt GC #1	APC	0.077					
Sanchez GC #1	APC	0.087					
Sullivan #3A	Horace McKay	0.099					
Trujillo GC #1	APC	0.086					
Zachry #8	MOI	0.084					
Zachry #10	MOI	0.070					
Zachry #12	MOI	0.059					
Average		0.083					
Estimated IP from offsets and P/Z vs. Cum Prod:			40 MCFD	Note: Requires wellhead compression			

Dwights

Lease: TRUJILLO 29-10-21 000002

09/18/96

Retrieval Code: 251,045,29N10W21M00FT



County: SAN JUAN, NM

F.P. Date: 04/93

Field: BASIN (FRUITLAND COAL) FT

Oil Cum: 4 bbl

Reservoir: FRUITLAND COAL

Gas Cum: 111.7 mmcf

Operator: S G INTERESTS ILTD

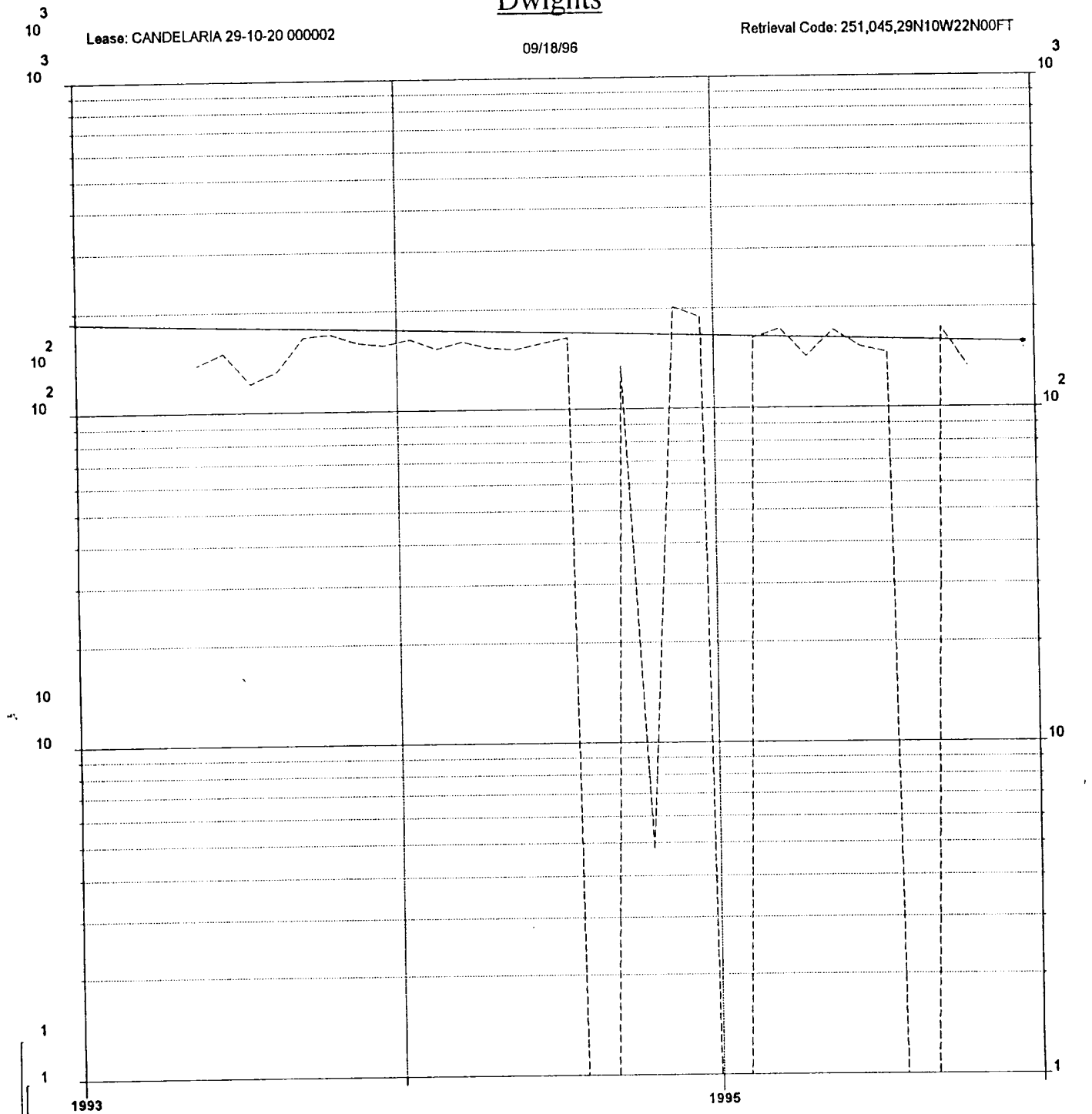
Location: 21M 29N 10W

Dwights

Lease: CANDELARIA 29-10-20 000002

09/18/96

Retrieval Code: 251,045,29N10W22N00FT



Oil (bbl/day)

County: SAN JUAN, NM

F.P. Date: 05/93

Gas (mcf/day)

Water (bbl/day)

Field: BASIN (FRUITLAND COAL) FT

Oil Cum: 0 bbl

Reservoir: FRUITLAND COAL

Gas Cum: 124.1 mmcf

Operator: S G INTERESTS I LTD

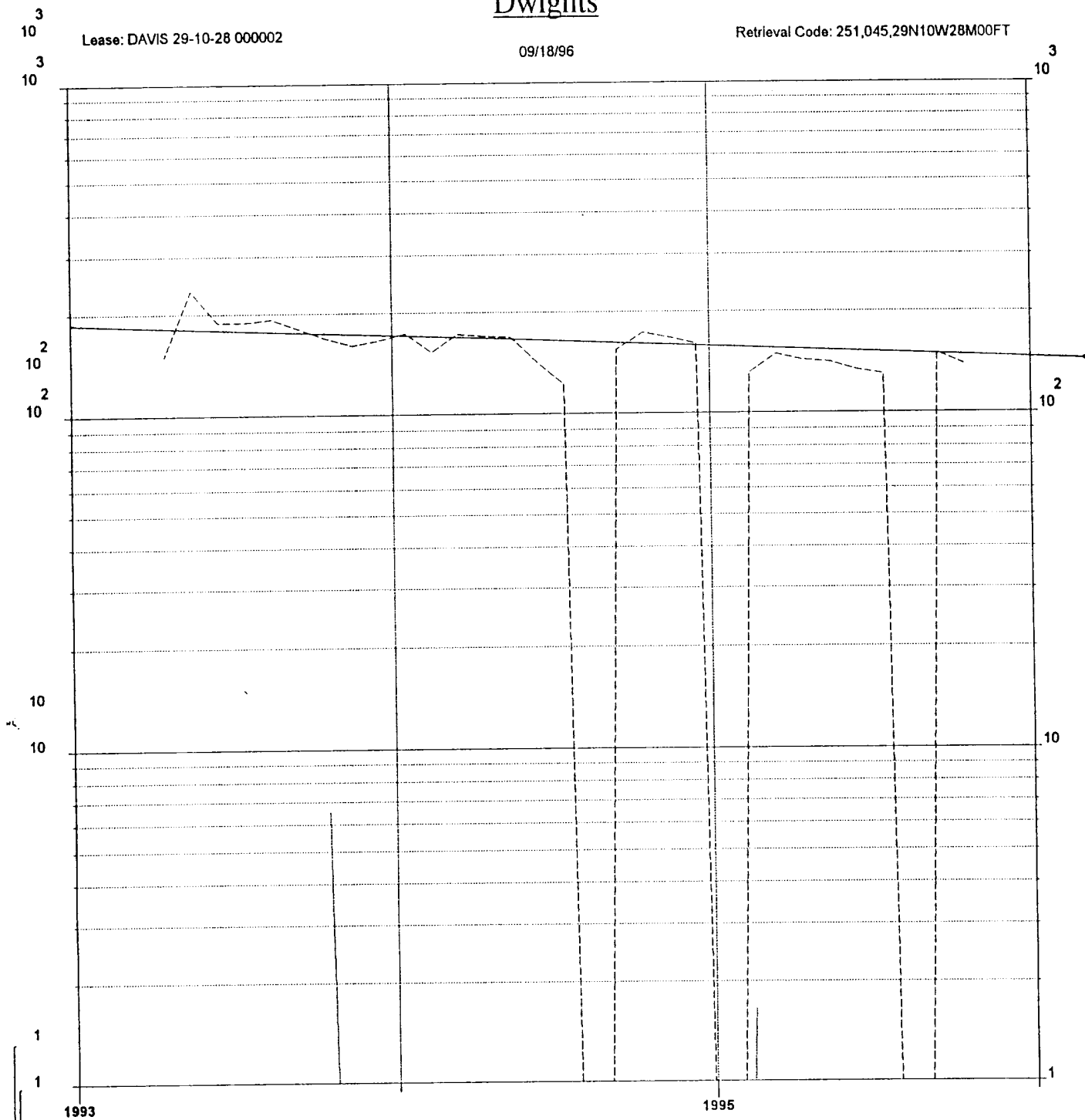
Location: 22N 29N 10W

Dwights

Lease: DAVIS 29-10-28 000002

09/18/96

Retrieval Code: 251,045,29N10W28M00FT



Oil (bbl/day)

County: SAN JUAN, NM

F.P. Date: 04/93

Gas (mcf/day)

Water (bbl/day)

Field: BASIN (FRUITLAND COAL) FT

Oil Cum: 0 bbl

Reservoir: FRUITLAND COAL

Gas Cum: 136.3 mmcf

Operator: S G INTERESTS I LTD

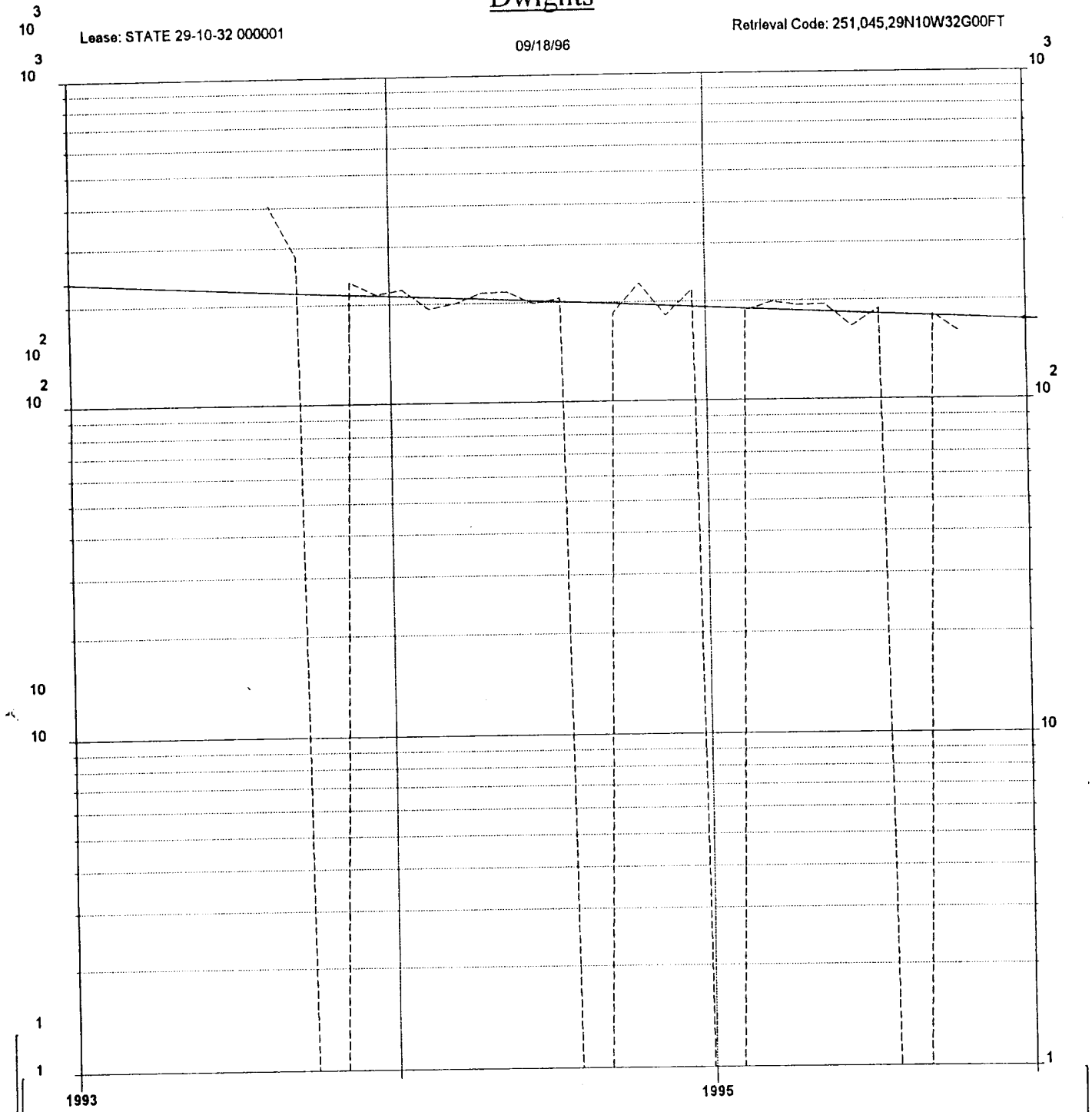
Location: 28M 29N 10W

Dwights

Lease: STATE 29-10-32 000001

09/18/96

Retrieval Code: 251,045,29N10W32G00FT



Oil (bbl/day)

County: SAN JUAN, NM

F.P. Date: 08/93

Gas (mcf/day)

Water (bbl/day)

Field: BASIN (FRUITLAND COAL) FT

Oil Cum: 0 bbl

Reservoir: FRUITLAND COAL

Gas Cum: 147.7 mmcf

Operator: S G INTERESTS I LTD

Location: 32G 29N 10W

For: zslw11
Engr: zalc14

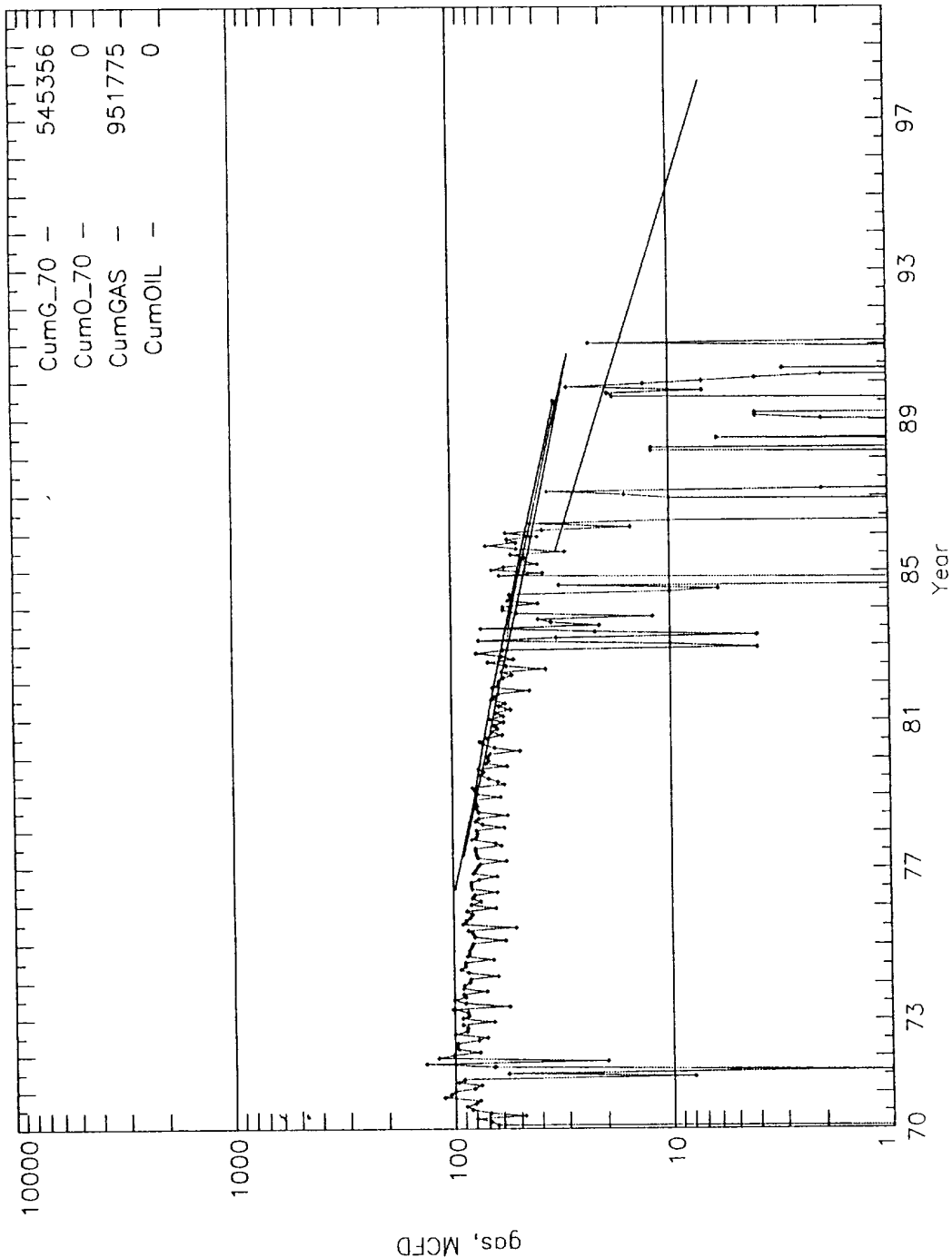
TRUJILLO GAS UNIT 1

Operator- AMOCO PROD

300450797600 604PCCF M 212910

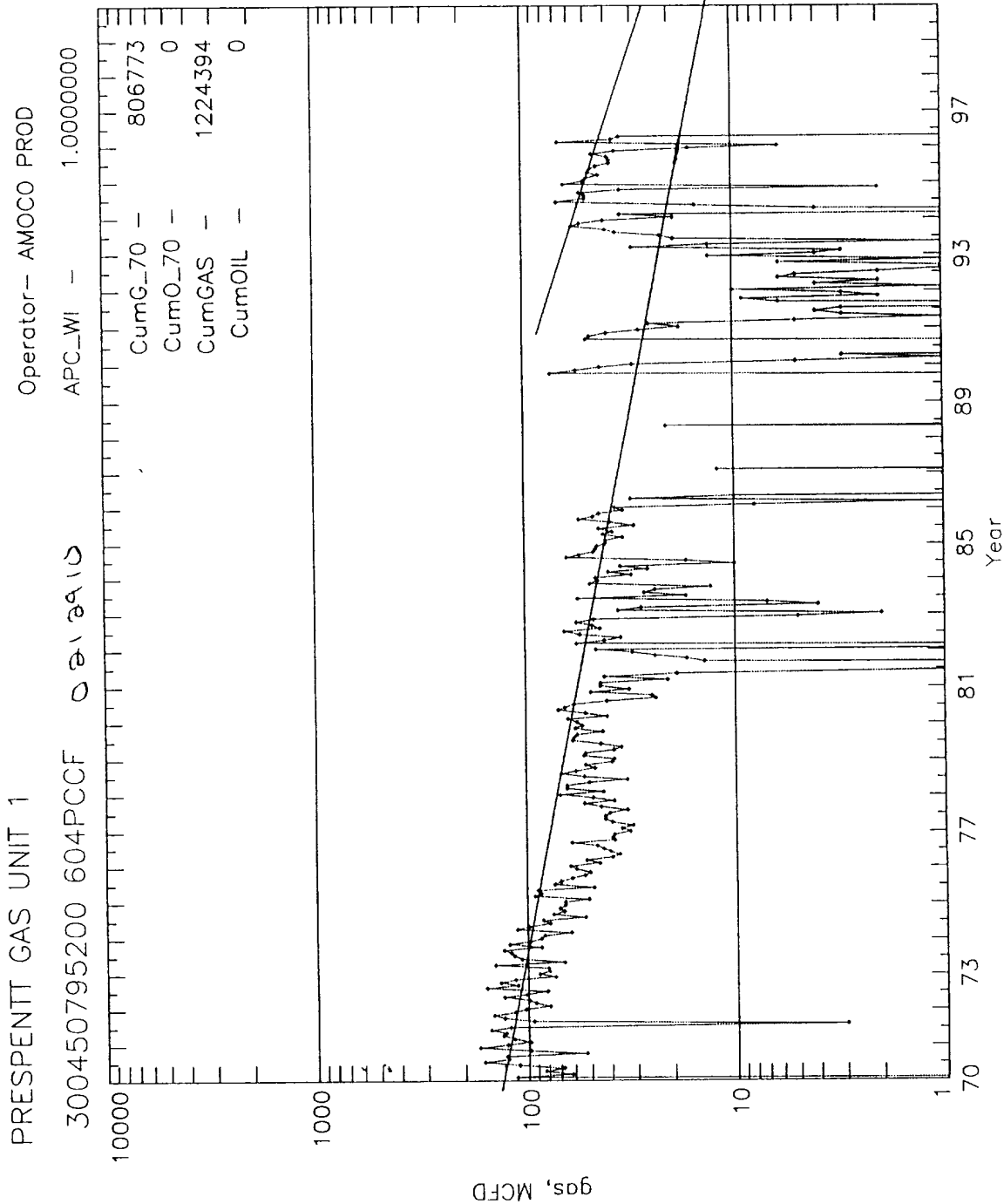
APC_WI - 0.750000000

CumG_70	-	545356
CumO_70	-	0
CumGAS	-	951775
CumOIL	-	0



Last Op. Forecast by zalc14 in 04/1996

For: zslw11
Engr: zalc14



Last Op. Forecast by zalc14 in 05/1996

For: zslw11
Engr: zalc14

SCA

ARMENTA #1

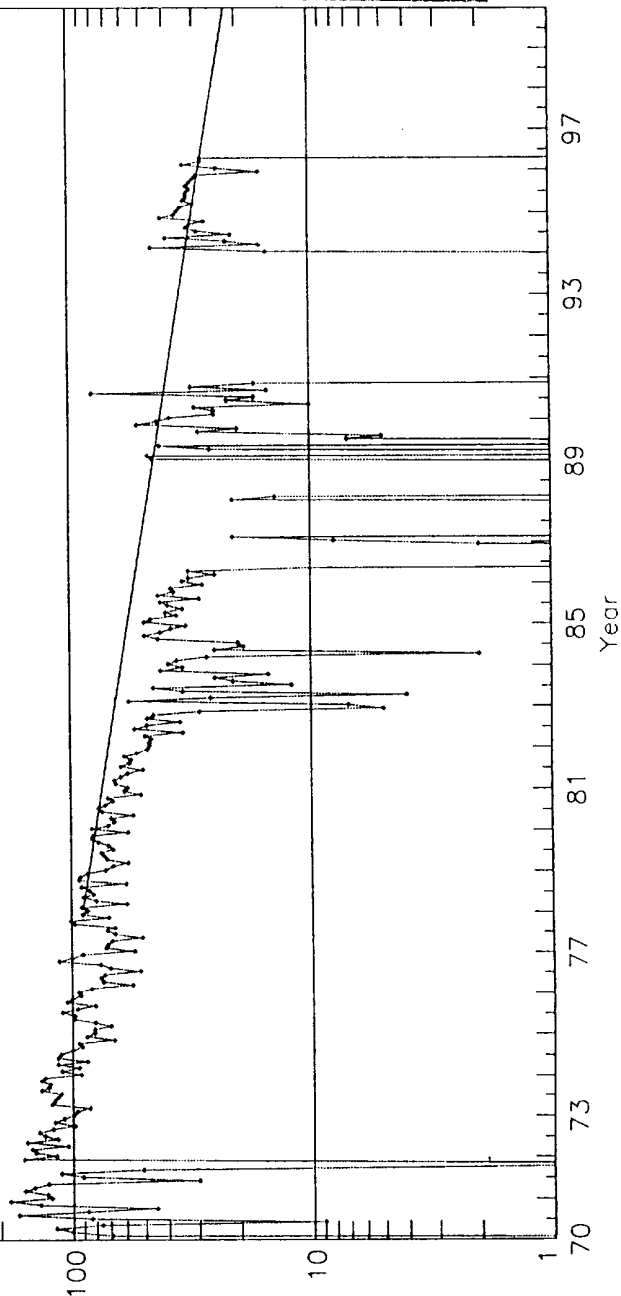
Operator-- AMOCO PROD

300450792600 604PCCF Data

APC_WI - 0.75000000

10000	CumG_70 -	565356
	CumO_70 -	0
	CumGAS -	1050768
	CumOIL -	0

gas, MCFD



Last Op. Forecast by zalc14 in 05/1996

For: zslw11
Engr: zalc14

MADDOX GAS UNIT^A 1

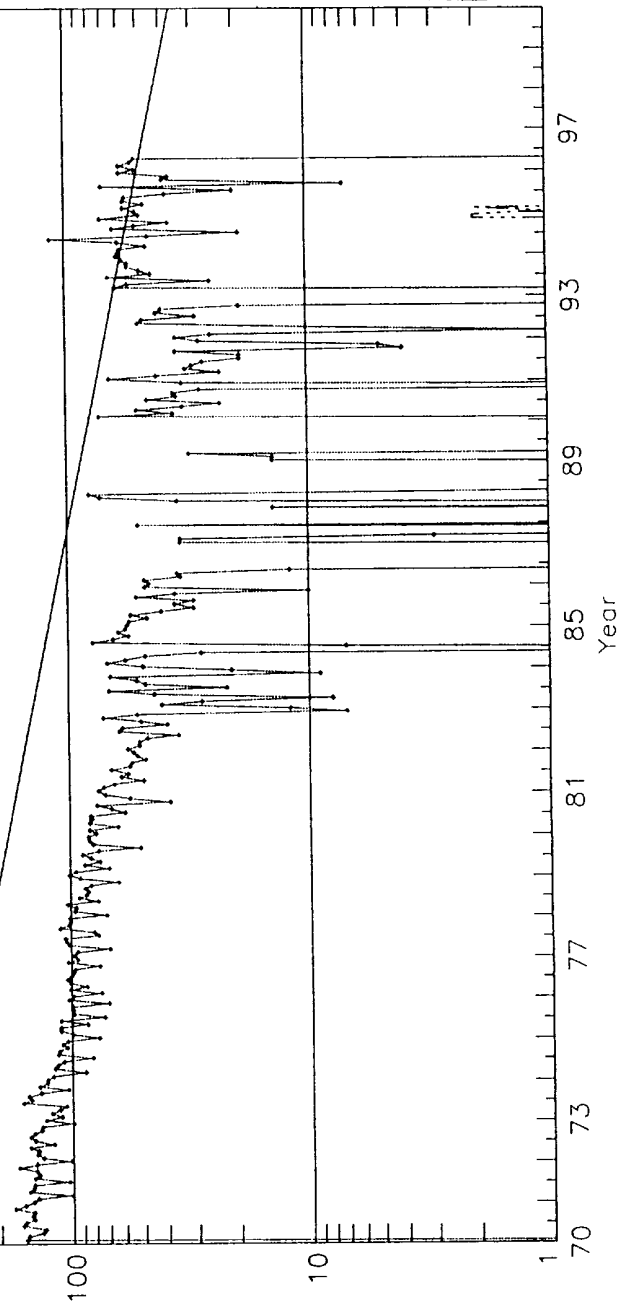
Operator— AMOCO PROD

APC_WI — 1.00000000

300450778600 604PCCF M 27 29 10

CumG_70	—	831433
CumO_70	—	0
CumGAS	—	1454523
CumOIL	—	0

gas, MCFD



Reserves



Last Op. Forecast by zalc14 in 05/1996

For: zslw11
Engr: zalc14

SANCHEZ 1

Operator- AMOCO PROD

300450791500 604PCCF

6 28 29 30

APC_WI - 1.00000000

CumG_70 -

CumO_70 -

CumGAS -

CumOIL -

867498

0

1454957

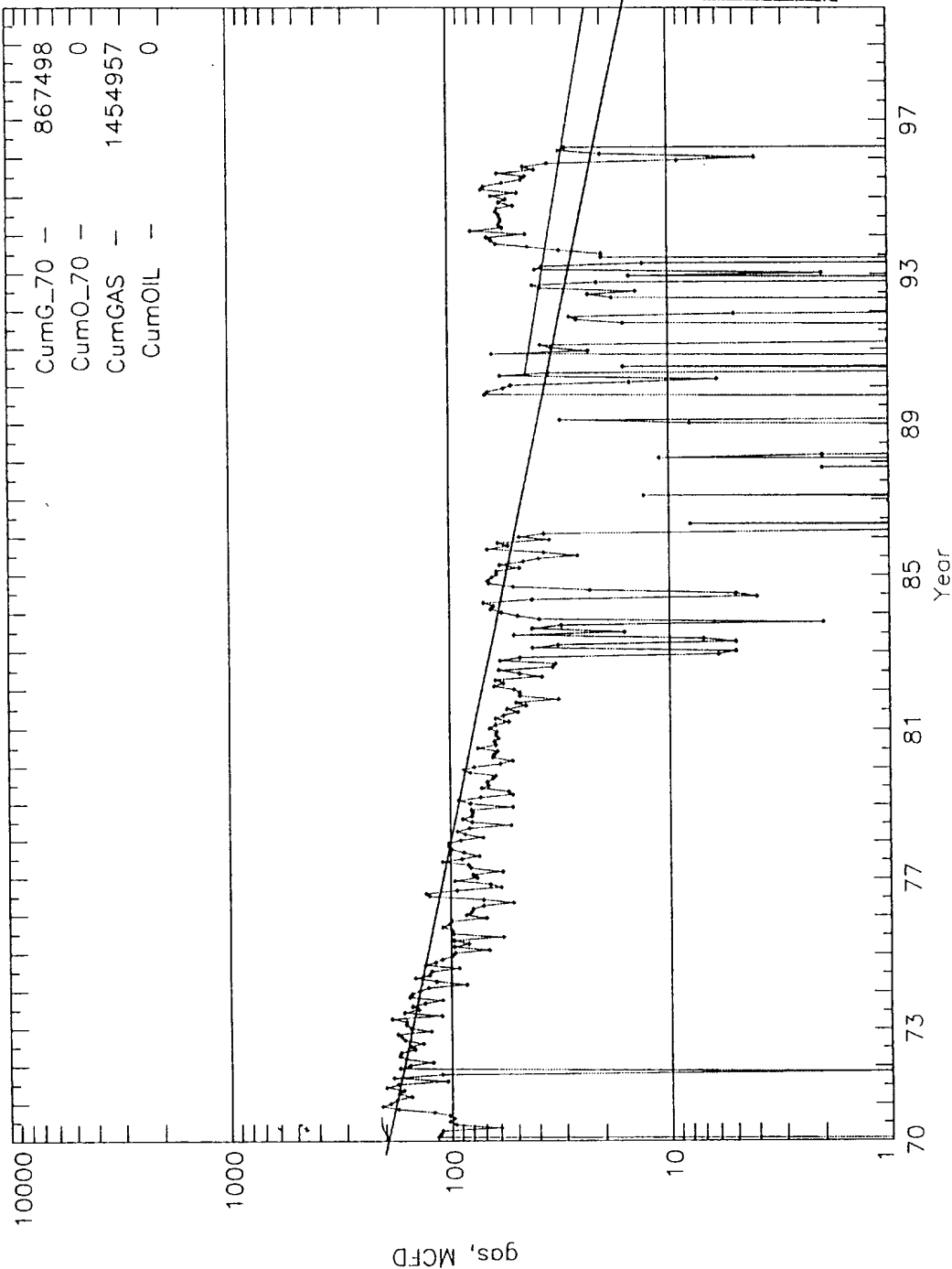
0

0

0

0

0



Last Op. Forecast by zalc14 in 04/1996

For: zslw11
 Engr: zslw11

GC

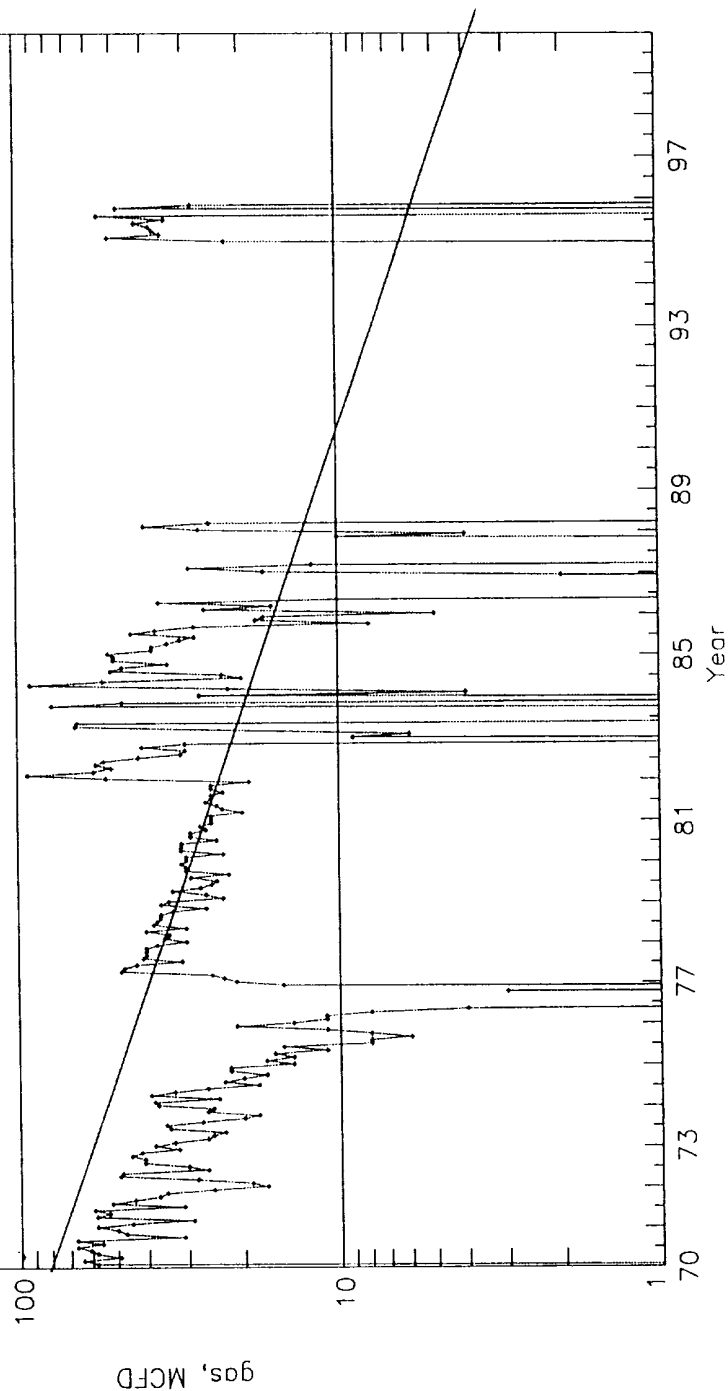
BRUINGTON POOL UNIT 1

Operator— HARVEY FRANCIS L

300450778400 604PCCF M 282910

APC_WI — 0.0000000

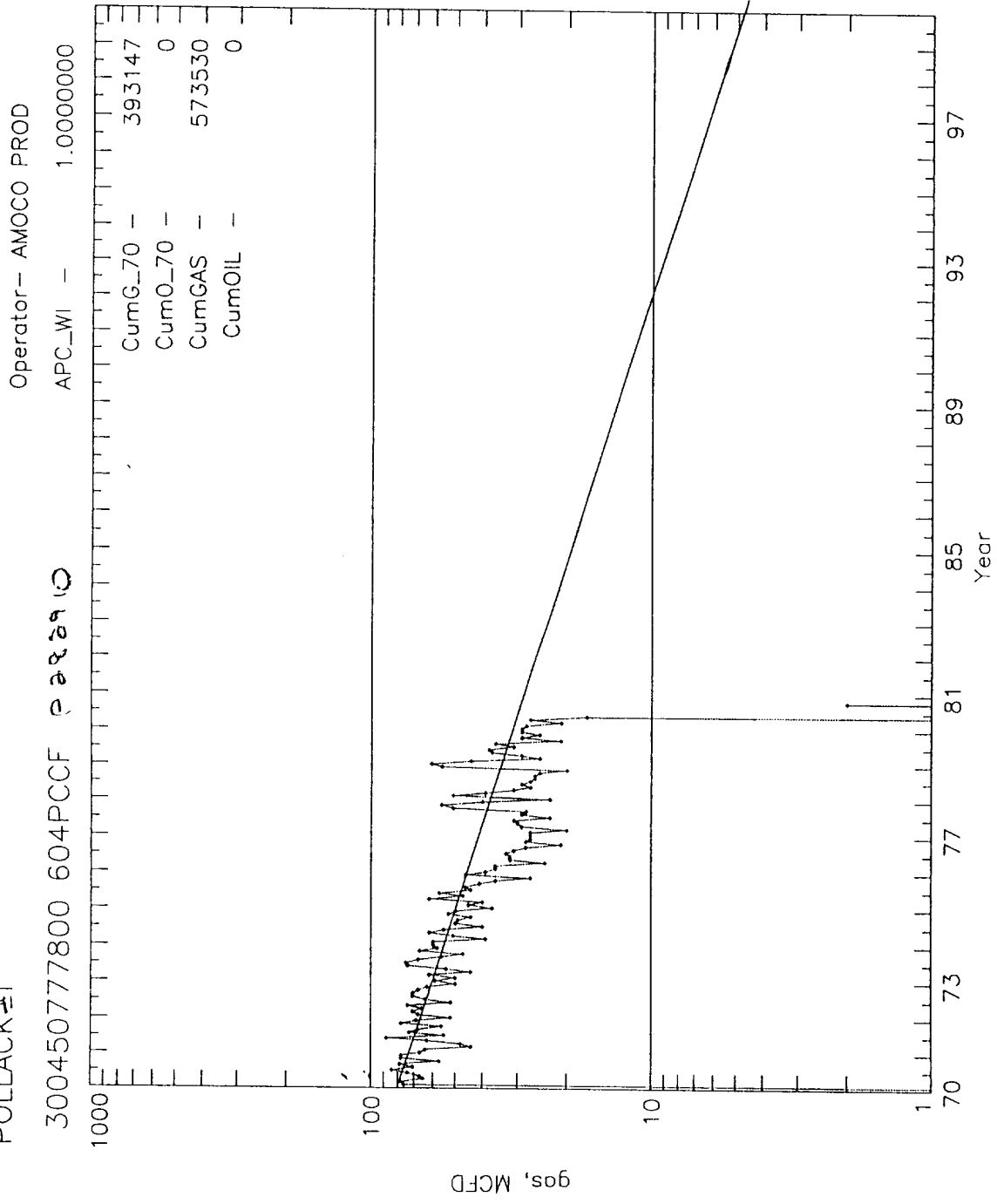
CumG_70 —	246044
CumO_70 —	0
CumGAS —	448222
CumOIL —	0



Last Op. Forecast by None in None

W POLLACK#1

For: zslw11
Engr: zslw11



Last Op. Forecast by None in None

For: zslw11
Engr: zslw11

SULLIVAN 3-A

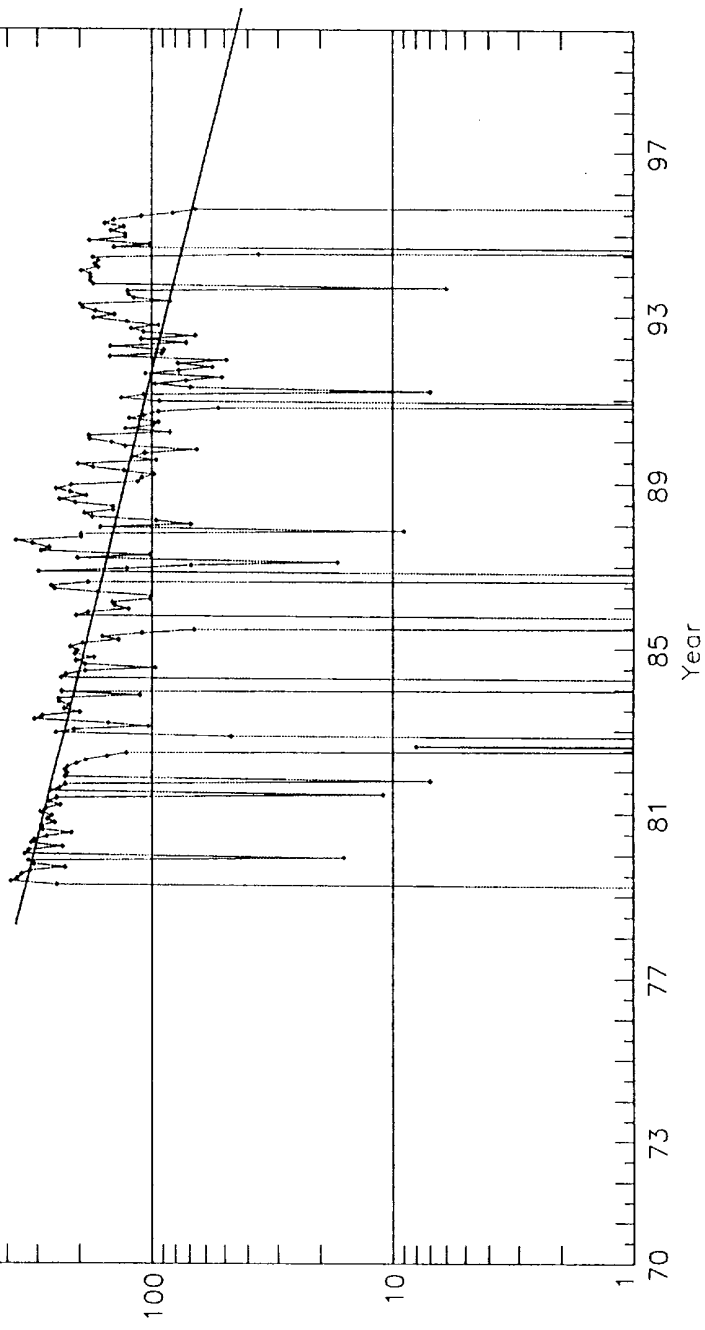
Operator- MCKAY HORACE F JR

300452326500 604PCCF A 292910

APC_WI - 0.0000000

CumG_70 -	0
CumO_70 -	0
CumGAS -	946975
CumOIL -	0

gas, MCFD



Last Op. Forecast by None in None

For: zslw11
Engr: zslw11

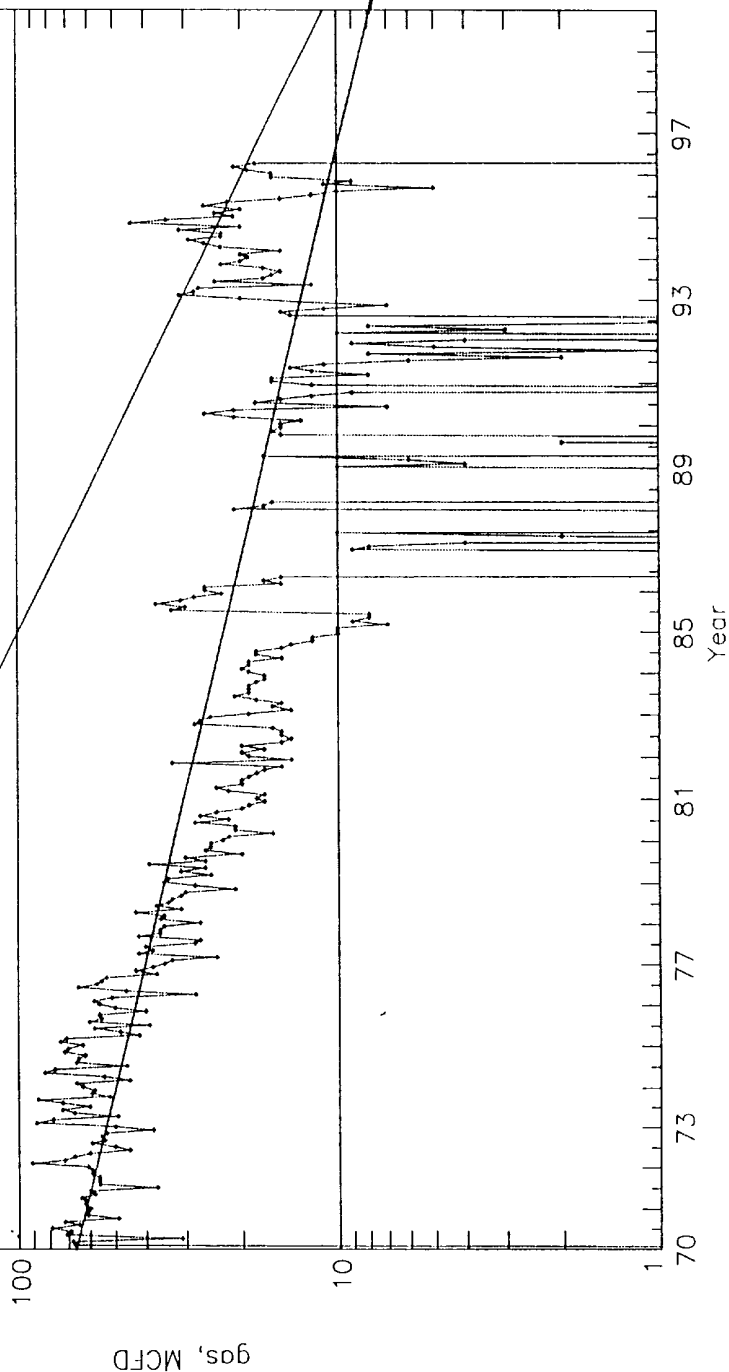
ABRAMS GAS UNIT D 1

Operator- AMOCO PROD

300450782200 604PCCF 7292910

APC_WI -- 1.0000000

CumG_70	--	420238
CumO_70	--	0
CumGAS	--	694233
CumOIL	--	0



Last Op. Forecast by zslw11 in 05/1996

For: zslw11
Engr: zslw11

ZACHRY 8

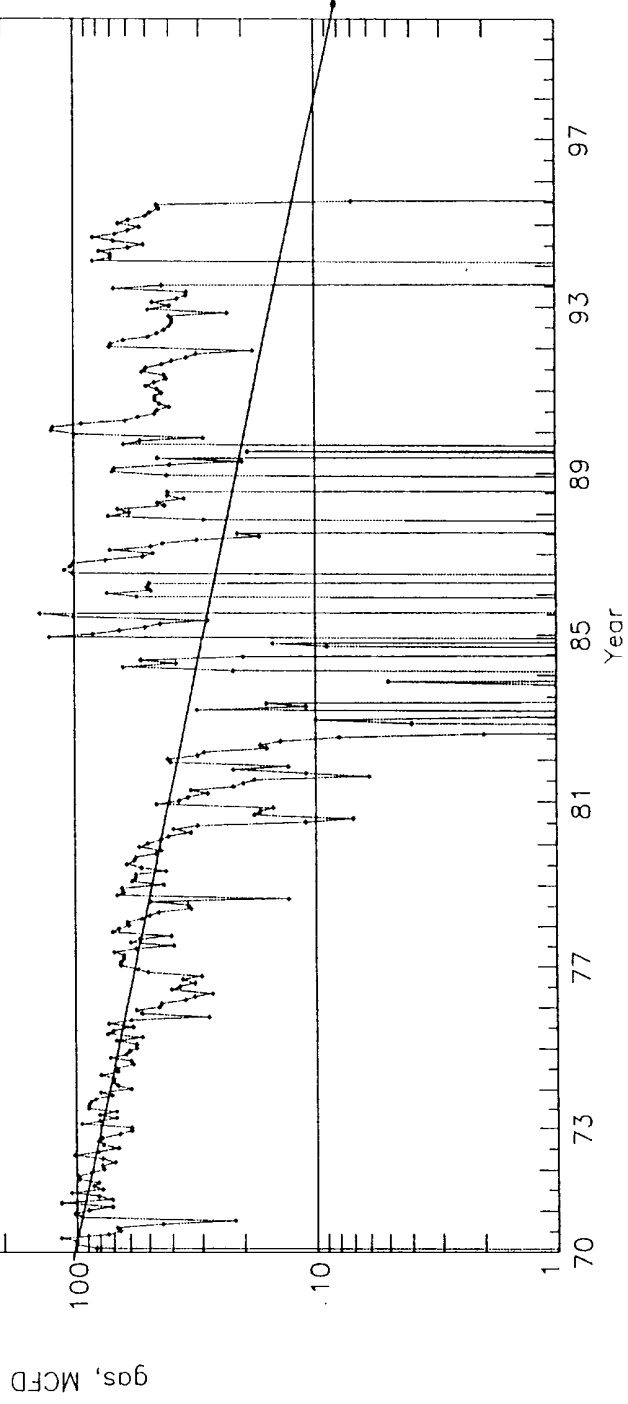
Operator-- MERIDIAN OIL INCORPORATED

300450772600 604PCCF A 332910

APC_WI -- 0.0000000

CumG_70	--	517310
CumO_70	--	0
CumGAS	--	967084
CumOIL	--	0

to FT coal
w/GS



Last Op. Forecast by None in None

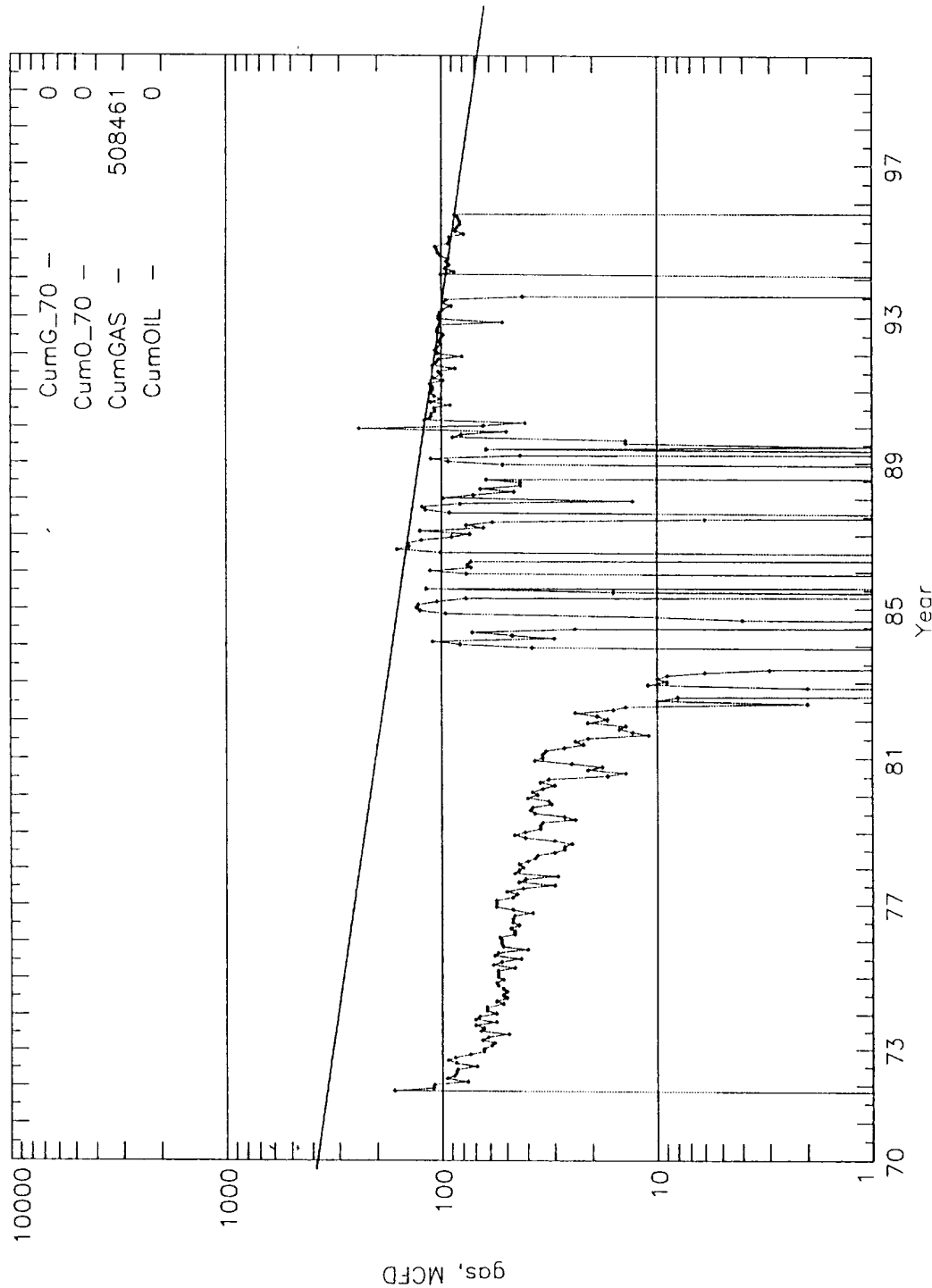
For: zslw11
Engr: zslw11

ZACHRY 12

300452080100 604PCCF F 332910

Operator- MERIDIAN OIL INCORPORATED

APC_WI - 0.0000000



Last Op. Forecast by None in None

For: zslw11

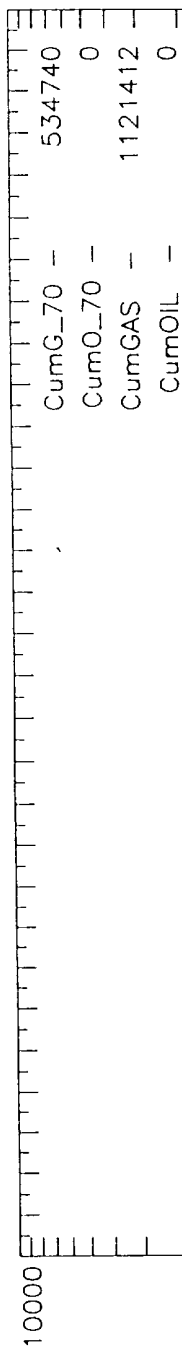
Engr: zslw11

ZACHERY 10

Operator-- MERIDIAN OIL INCORPORATED

300450772700 604PCCF D342910

APC_WI - 0.0000000



Last Op. Forecast by None in None