



September 14, 1993

Ben Stone
New Mexico Oil Conservation Division
PO Box 2088
Santa Fe, New Mexico 87504

File: CAW-253-986.511

Additional Information
Application for Exception to Rule 303-A
Surface Commingling Production from 29 Dual Wells
Rio Arriba County New Mexico

Per our discussion, attached is the information on condensate gravities which you requested for our August 12, 1993 application. Since these formations produce in the high end range of °API gravity condensate, the commercial value of the commingled condensate production will not be less than the sum of the values of production from each common source of supply.

In addition, I received a request from the NMOCD District III in Aztec to clarify our proposed allocation methods for these wells. We plan to test the wells for allocation on an annual basis in the following manner. The highest rate formation will be tested for a 24 hour period. Then both formations commingled will be tested for a 24 hour period. Gas production and condensate production will be allocated on a percentage basis. As stated in our application letter, each of these dual wells has identical ownership in the formations to be surface commingled.

If there is any additional information required, please contact me at (303) 830-5072.

Sincerely,

J. W. Hawkins

JWH/jmc

Attachment

cc: Ernie Busch
NMOCD District III
Aztec, NM 87410

Shirley Mondy
Bureau of Land Management
435 Montano NE
Albuquerque, NM 87107

OIL CONSERVATION DIVISION
RECEIVED
SEP 17 1993

Amoco Production Company

Southern Rockies Business Unit
Amoco Building
1670 Broadway
Post Office Box 800
Denver, Colorado 80201
303-830-4040

**Attachment
Condensate Gravities**

<u>Dakota</u>	<u>°API at 60° F</u>
Jic. Apache 102 8E	65.4
Jic. Apache 102 10E	63.6
Jic. B 7	56.8
Jic. B 2E	55.9
Jic. C 3	56.2
<u>Gallup</u>	
Jic. A 8	57.6
Jic. A 3	45.0
<u>Mesaverde</u>	
Jic. Contract 146 36	47.5
Jic. Apache 102 8E	57.0
Jic. Contract 146 39	50.6
Jic. Contract 155 29	49.5
<u>Chacra</u>	
Jic. Contract 146 36	45.3
<u>Pictured Cliffs</u>	
No Condensate	

RELEASE 9.1.93



August 12, 1993

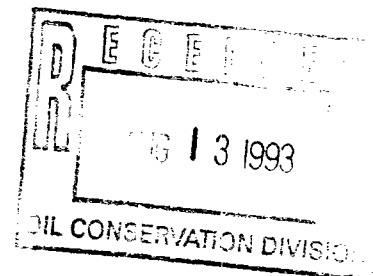
Mr. William J. LeMay, Director
New Mexico Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87504

Amoco Production Company

Southern Rockies Business Unit
Amoco Building
1670 Broadway
Post Office Box 800
Denver, Colorado 80201
303-830-4040

File: CAW-170-986.511

Application for Exception to Rule 303-A
Surface Commingle Production from Dual Wells
F Jicarilla A-1E Well, Section 18, T26N-R5W
G Jicarilla A-2 Well, Section 18, T26N-R5W
A Jicarilla A-3 Well, Section 19, T26N-R5W
G Jicarilla A-5 Well, Section 20, T26N-R5W
H Jicarilla A-8 Well, Section 17, T26N-R5W
P Jicarilla A-9 Well, Section 20, T26N-R5W
J Jicarilla B-2E Well, Section 16, T26N-R5W
H Jicarilla B-4 Well, Section 21, T26N-R5W
H Jicarilla B-7 Well, Section 16, T26N-R5W
G Jicarilla B-7E Well, Section 16, T26N-R5W
G Jicarilla B-8M Well, Section 15, T26N-R5W
J Jicarilla C-2E Well, Section 14, T26N-R5W
I Jicarilla C-3 Well, Section 23, T26N-R5W
F Jicarilla C-6 Well, Section 14, T26N-R5W
K Jicarilla Apache 102-10E Well, Section 4, T26N-R4W
I Jicarilla Apache 102-8E Well, Section 3, T26N-R4W
A Jicarilla Contract 146-22 Well, Section 10, T25-R5W
A Jicarilla Contract 146-29 Well, Section 9, T25-R5W
A Jicarilla Contract 146-32 Well, Section 10, T25-R5W
A Jicarilla Contract 146-36 Well, Section 4, T25-R5W
J Jicarilla Contract 146-39 Well, Section 3, T25-R5W
P Jicarilla Contract 148-20 Well, Section 23, T25-R5W
M Jicarilla Contract 148-22 Well, Section 13, T25-R5W
A Jicarilla Contract 148-25 Well, Section 15, T25-R5W
H Jicarilla Contract 148-26 Well, Section 14, T25-R5W
F Jicarilla Contract 155-29 Well, Section 32, T26-R5W
H Jicarilla Contract 155-31 Well, Section 29, T26-R5W
H Jicarilla Gas Com 155A-1 Well, Section 32, T26-R5W
B NM-A110, NM-A102/Reames Com-2 Well, Section 19, T26N-R6W
Rio Arriba County, New Mexico



Amoco Production Company hereby requests administrative approval from the Division Director for an exception to Rule 303-A to permit surface commingling of the production at each individual well site for each for the above referenced dually completed wells.

The surface commingling of the production from these wells will allow the use of a single train of production equipment for each dual well to reduce overall operating cost and allow a single compressor to be used to increase production from both formations. The actual commercial value of the commingled production will not be less than the sum of the values of the production from each common source of supply.

Each of these dually completed wells has common ownership (WI, RI, ORRI) for the horizons which are proposed for surface commingling. We plan to allocate production back to each formation on the basis of annual well tests. A copy of this

William J. LeMay, Director
August 12, 1993
Page 2

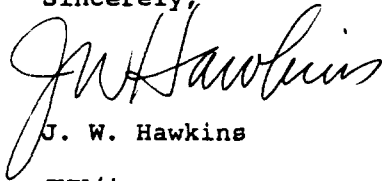
application is being sent to the Bureau of Land Management for their review and concurrence.

Attached to aid in your review of this application is:

1. Plat showing location of wells where production will be surface commingled and other wells in immediate area.
2. Table of well information by lease including formations to be commingled, well location and ownership.
3. Schematic diagram of the proposed installation.
4. Summary of recent production data and proration status.
5. Historical production graph for each well.

If additional information is required please contact me at (303) 830-5072.

Sincerely,



J. W. Hawkins

JWH/jmc

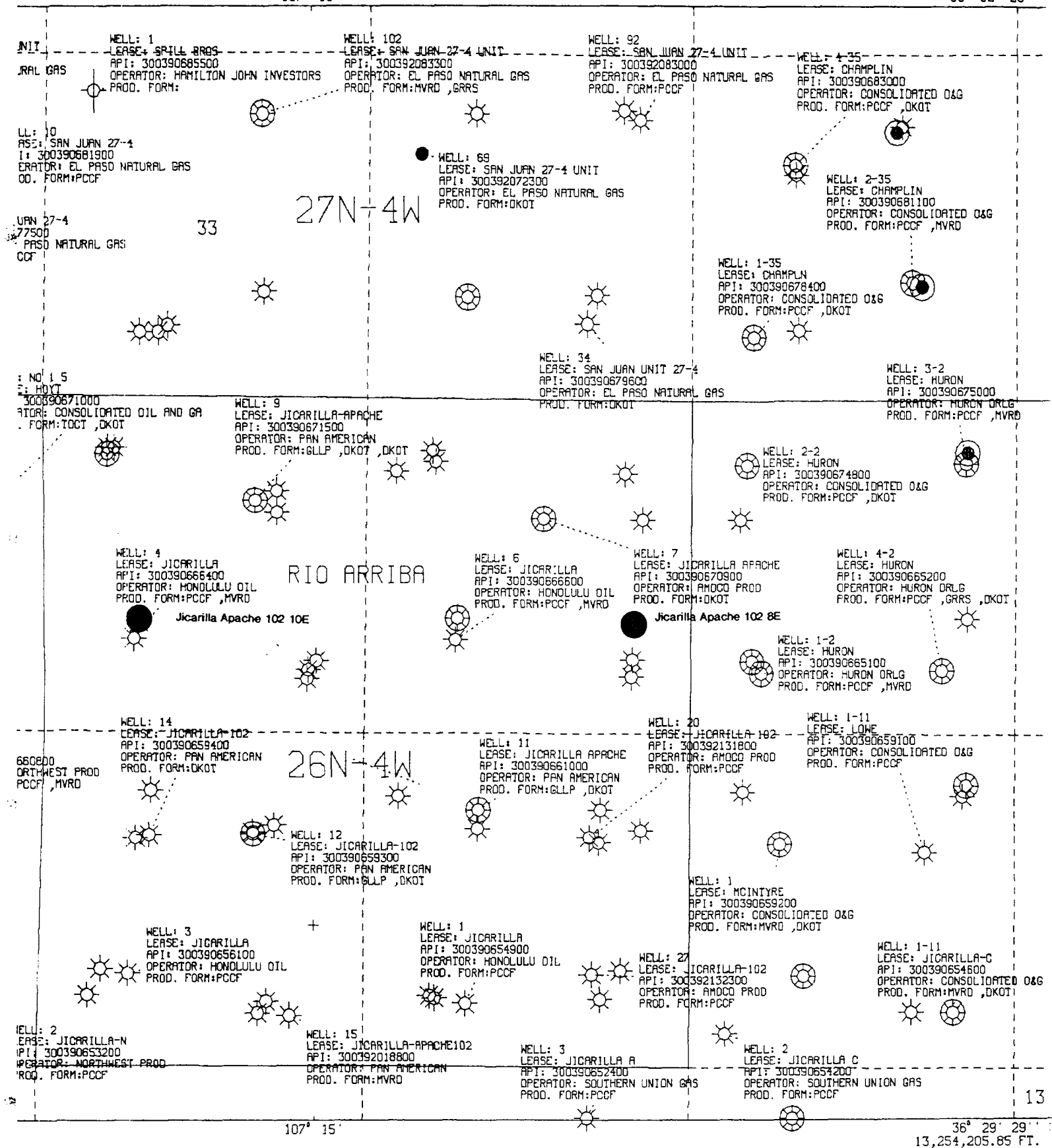
cc: Lara Kwartin

Bureau of Land Management
1235 La Plata Hwy.
Farmington, NM 87499
Attn: John Keller

Bureau of Land Management
435 Montano NE
Albuquerque, NM 87107
Attn: Robert Kent

NMOCD District III
1000 Rio Brazos Rd.
Aztec, NM 87410
Attn: Frank Chavez

13,271,436.84 FT.
36° 32' 20''



13

36° 29' 29''
13,254,205.85 FT.

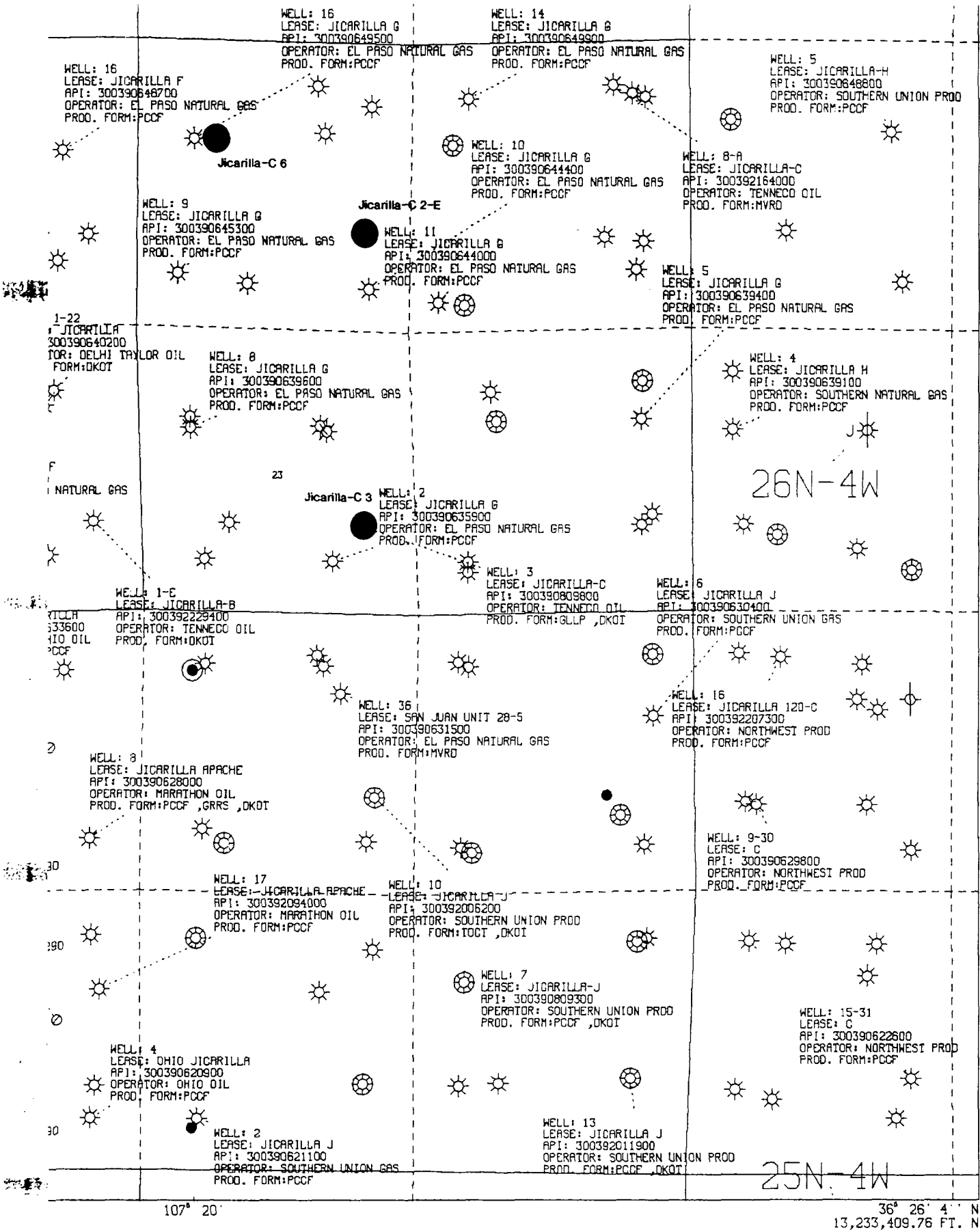
the interpretation
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reproduction thereof
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AMOCO PRODUCTION COMPANY
PLAT MAP

26N-4W

CANDIDATES FOR SURFACE COMMINGLING
 2001-5-1 IN 2 000 BT 111 2 1007

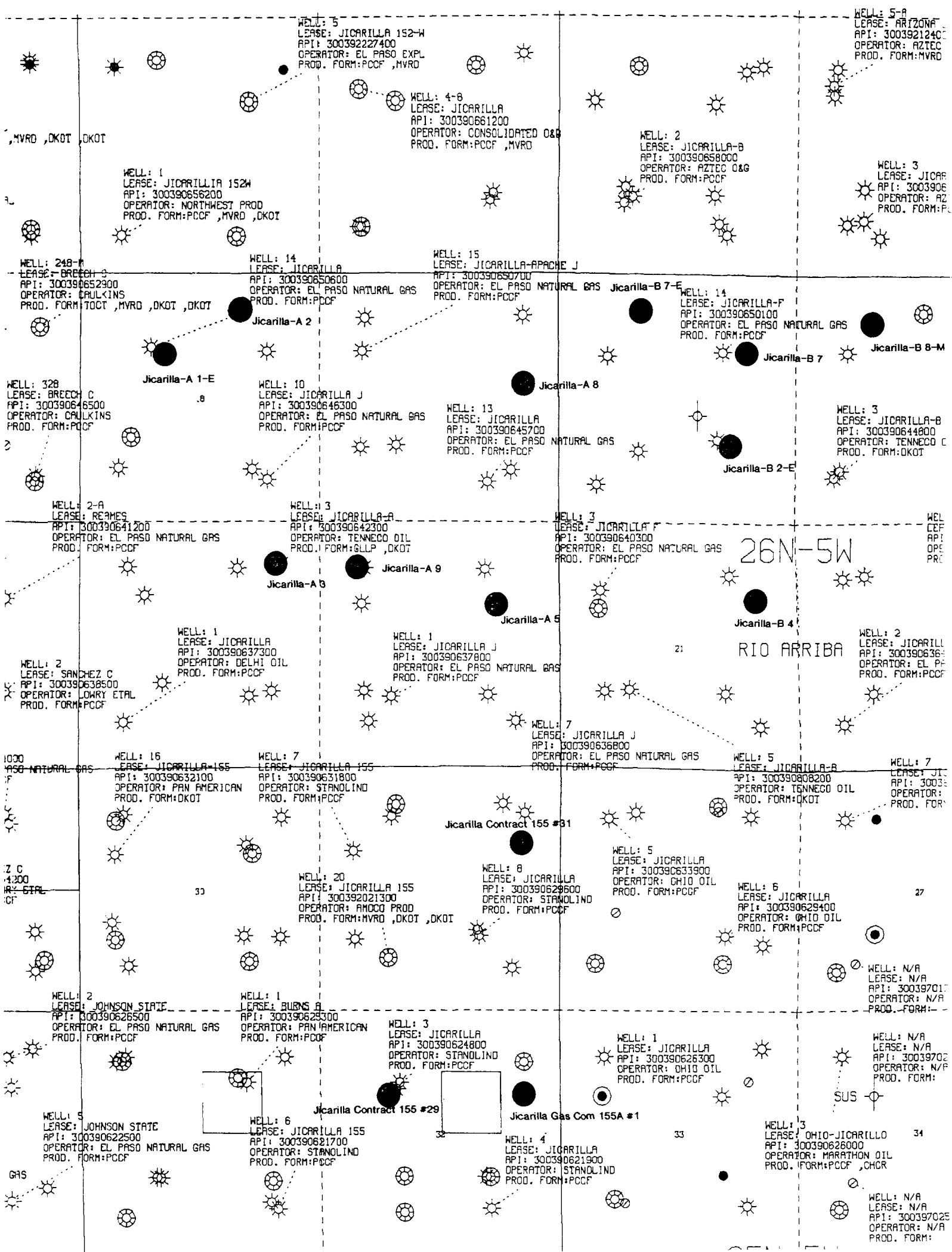


AMOCO PRODUCTION COMPANY PLAT MAP

26N-5W

CANDIDATES FOR SURFACE COMMINGLING

UN#93183041939



WELL: 5
LEASE: JICARILLA 152-W
API: 300392227400
OPERATOR: EL PASO EXPL
PROD. FORM: PCCF, MVRD

WELL: 4-B
LEASE: JICARILLA
API: 300390661200
OPERATOR: CONSOLIDATED O&G
PROD. FORM: PCCF, MVRD

WELL: 2
LEASE: JICARILLA-B
API: 300390658000
OPERATOR: AZTEC O&G
PROD. FORM: PCCF

WELL: 5-A
LEASE: ARIZONA
API: 3003921240
OPERATOR: AZTEC
PROD. FORM: MVRD

WELL: 3
LEASE: JICARILLA
API: 3003906
OPERATOR: AZ
PROD. FORM: P

WELL: 1
LEASE: JICARILLA 152W
API: 300390656200
OPERATOR: NORTHWEST PROD
PROD. FORM: PCCF, MVRD, DKOT

WELL: 248-M
LEASE: BREECH
API: 300390652300
OPERATOR: CAULKINS
PROD. FORM: TOCT, MVRD, DKOT, DKOT

WELL: 14
LEASE: JICARILLA
API: 300390650600
OPERATOR: EL PASO NATURAL GAS
PROD. FORM: PCCF

WELL: 15
LEASE: JICARILLA-APACHE J
API: 300390650700
OPERATOR: EL PASO NATURAL GAS
PROD. FORM: PCCF

WELL: 14
LEASE: JICARILLA-F
API: 300390650100
OPERATOR: EL PASO NATURAL GAS
PROD. FORM: PCCF

Jicarilla-B 8-M

Jicarilla-A 1-E

WELL: 10
LEASE: JICARILLA J
API: 300390646300
OPERATOR: EL PASO NATURAL GAS
PROD. FORM: PCCF

WELL: 13
LEASE: JICARILLA
API: 300390645700
OPERATOR: EL PASO NATURAL GAS
PROD. FORM: PCCF

WELL: 3
LEASE: JICARILLA-B
API: 300390644800
OPERATOR: TENNECO
PROD. FORM: DKOT

Jicarilla-B 2-E

WELL: 2-A
LEASE: REAMES
API: 300390641200
OPERATOR: EL PASO NATURAL GAS
PROD. FORM: PCCF

WELL: 3
LEASE: JICARILLA-A
API: 300390642300
OPERATOR: TENNECO OIL
PROD. FORM: GLLP, DKOT

WELL: 3
LEASE: JICARILLA F
API: 300390640300
OPERATOR: EL PASO NATURAL GAS
PROD. FORM: PCCF

26N-5W

Jicarilla-A 3

Jicarilla-A 9

Jicarilla-A 5

Jicarilla-B 4

WELL: 2
LEASE: SANCHEZ C
API: 300390638500
OPERATOR: LOWRY ETAL
PROD. FORM: PCCF

WELL: 1
LEASE: JICARILLA
API: 300390637300
OPERATOR: DELHI OIL
PROD. FORM: PCCF

WELL: 1
LEASE: JICARILLA J
API: 300390637800
OPERATOR: EL PASO NATURAL GAS
PROD. FORM: PCCF

RIO ARRIBA

WELL: 2
LEASE: JICARILLA
API: 300390636
OPERATOR: EL P
PROD. FORM: PCCF

WELL: 16
LEASE: JICARILLA-155
API: 300390632100
OPERATOR: PAN AMERICAN
PROD. FORM: DKOT

WELL: 7
LEASE: JICARILLA 155
API: 300390631800
OPERATOR: STANOLIND
PROD. FORM: PCCF

WELL: 7
LEASE: JICARILLA J
API: 300390636800
OPERATOR: EL PASO NATURAL GAS
PROD. FORM: PCCF

WELL: 5
LEASE: JICARILLA-B
API: 300390608200
OPERATOR: TENNECO OIL
PROD. FORM: DKOT

WELL: 7
LEASE: JICARILLA
API: 3003906
OPERATOR: PROD. FORM:

Jicarilla Contract 155 #31

WELL: 5
LEASE: JICARILLA
API: 300390633900
OPERATOR: OHIO OIL
PROD. FORM: PCCF

WELL: 6
LEASE: JICARILLA
API: 300390629400
OPERATOR: OHIO OIL
PROD. FORM: PCCF

WELL: 20
LEASE: JICARILLA 155
API: 300392021300
OPERATOR: AMOCO PROD
PROD. FORM: MVRD, DKOT, DKOT

WELL: 8
LEASE: JICARILLA
API: 300390628500
OPERATOR: STANOLIND
PROD. FORM: PCCF

WELL: N/A
LEASE: N/A
API: 30039701
OPERATOR: N/A
PROD. FORM:

WELL: 2
LEASE: JOHNSON STATE
API: 300390626500
OPERATOR: EL PASO NATURAL GAS
PROD. FORM: PCCF

WELL: 1
LEASE: BURNS A
API: 300390625300
OPERATOR: PAN AMERICAN
PROD. FORM: PCCF

WELL: 3
LEASE: JICARILLA
API: 300390624800
OPERATOR: STANOLIND
PROD. FORM: PCCF

WELL: 1
LEASE: JICARILLA
API: 300390626300
OPERATOR: OHIO OIL
PROD. FORM: PCCF

WELL: N/A
LEASE: N/A
API: 30039702
OPERATOR: N/A
PROD. FORM:

Jicarilla Contract 155 #29

Jicarilla Gas Com 155A #1

WELL: 5
LEASE: JOHNSON STATE
API: 300390622500
OPERATOR: EL PASO NATURAL GAS
PROD. FORM: PCCF

WELL: 6
LEASE: JICARILLA 155
API: 300390621700
OPERATOR: STANOLIND
PROD. FORM: PCCF

WELL: 4
LEASE: JICARILLA
API: 300390621900
OPERATOR: STANOLIND
PROD. FORM: PCCF

WELL: 3
LEASE: OHIO-JICARILLA
API: 300390626000
OPERATOR: MARATHON OIL
PROD. FORM: PCCF, CHCR

WELL: N/A
LEASE: N/A
API: 300397025
OPERATOR: N/A
PROD. FORM:

WELL: 1
LEASE: JICARILLA 146
API: 300390618600
OPERATOR: STANOLIND
PROD. FORM: PCCF

26N-5W

Jicarilla Contract 146 #36

WELL: 4-K
LEASE: JICARILLA
API: 300390618600
OPERATOR: SOUTHERN UNION GAS
PROD. FORM: PCCF

WELL: 2
LEASE: JICARILLA J
API: 300390614700
OPERATOR: HUMBLE OIL & REFINING
PROD. FORM: PCCF

WELL: 2
LEASE: JICARILLA
API: 300390615600
OPERATOR: STANOLIND
PROD. FORM: PCCF

WELL: 6
LEASE: JICARILLA 146
API: 300390615200
OPERATOR: STANOLIND
PROD. FORM: PCCF

WELL: 5
LEASE: JICARILLA-K
API: 300390613900
OPERATOR: SOUTHERN UNION GAS
PROD. FORM: PCCF

WELL: 3-K
LEASE: JICARILLA
API: 300390613600
OPERATOR: SOUTHERN UNION
PROD. FORM: PCCF

WELL: 7
LEASE: JICARILLA CONT 146
API: 300390611300
OPERATOR: STANOLIND
PROD. FORM: PCCF

WELL: 3
LEASE: JICARILLA 146
API: 300390611200
OPERATOR: STANOLIND
PROD. FORM: PCCF

WELL: 22
LEASE: JICARILLA-146
API: 300392033500
OPERATOR: PAN AMERICAN
PROD. FORM: PCCF, DKOT

Jicarilla Contract 146 #29

Jicarilla Contract 146 #22

Jicarilla Contract 146 #32

WELL: 8-K
LEASE: JICARILLA
API: 300390610900
OPERATOR: SOUTHERN UNION PRO
PROD. FORM: PCCF

JICARILLA-APACHE J
API: 300390607400
OPERATOR: HUMBLE OIL & REFINING
PROD. FORM: PCCF

WELL: 16
LEASE: JICARILLA-146
API: 300390606500
OPERATOR: PAN AMERICAN
PROD. FORM: CHCR

WELL: 6-K
LEASE: JICARILLA
API: 300390606700
OPERATOR: SOUTHERN UNION PROD
PROD. FORM: PCCF

WELL: 9
LEASE: JICARILLA-K
API: 300390606200
OPERATOR: SOUTHERN UNION PROD
PROD. FORM: PCCF

WELL: 7-
LEASE: JICARILLA
API: 300390606100
OPERATOR: SOUTHERN UNION
PROD. FORM: PCCF

WELL: 8
LEASE: JICARILLA CONT 146
API: 300390606900
OPERATOR: STANOLIND
PROD. FORM: PCCF

WELL: 13
LEASE: JICARILLA-146
API: 300390604200
OPERATOR: PAN AMERICAN
PROD. FORM: DKOT

WELL: 1
LEASE: JICARILLA 146
API: 300390603900
OPERATOR: STANOLIND
PROD. FORM: PCCF

WELL: 37
LEASE: JICARILLA CONTRACT
API: 300392378600
OPERATOR: AMOCO PROD
PROD. FORM: PCCF, DKOT

25N-5W

RIO ARRIBA

Jicarilla Contract 148 #25

WELL: 10
LEASE: JICARILLA CONTRACT
API: 300390597900
OPERATOR: AMOCO PROD
PROD. FORM: GRNR, GLLP, DKOT

Jicarilla Contract 148 #26

WELL: 5
LEASE: JICARILLA
API: 300390597700
OPERATOR: STANOLIND
PROD. FORM: PCCF

JICARILLA APACHE F
API: 300390600800
OPERATOR: AMERADA HESS CORP
PROD. FORM: PCCF, LVNN

WELL: 7
LEASE: JICARILLA-APACHE F
API: 300390595100
OPERATOR: AMERADA HESS CORP
PROD. FORM: PCCF, CHCR

WELL: 6
LEASE: JICARILLA F
API: 300390595800
OPERATOR: AMERADA HESS CORP
PROD. FORM: GRNR, CHCR

WELL: 8
LEASE: JICARILLA 148
API: 300390593700
OPERATOR: STANOLIND
PROD. FORM: PCCF

WELL: 2
LEASE: JICARILLA 148
API: 300390600300
OPERATOR: STANOLIND
PROD. FORM: PCCF

Jicarilla Contract 148 #22

JICARILLA
API: 300390544000
OPERATOR: PASO NATURAL GAS
PROD. FORM: PCCF, CHCR

WELL: 3
LEASE: JICARILLA C
API: 300390589700
OPERATOR: SKELLY OIL
PROD. FORM: PCCF

WELL: 7
LEASE: JICARILLA C
API: 300390589800
OPERATOR: SKELLY OIL
PROD. FORM: PCCF

WELL: 10
LEASE: JICARILLA C
API: 300390590200
OPERATOR: SKELLY OIL
PROD. FORM: PCCF, LVNN

WELL: 8
LEASE: NO 3 JICARILLA APACHE
API: 300390589200
OPERATOR: AMERADA PETROLEUM
PROD. FORM: LVNN, GRNR

WELL: 3
LEASE: JICARILLA 148
API: 300390593300
OPERATOR: STANOLIND
PROD. FORM: PCCF

WELL: 2
LEASE: JICARILLA
API: 300390589700
OPERATOR: STANOLIND
PROD. FORM: PCCF

WELL: 2
LEASE: JICARILLA C
API: 300390585900
OPERATOR: SKELLY OIL
PROD. FORM: PCCF

WELL: 18
LEASE: JICARILLA C
API: 300390583700
OPERATOR: SKELLY OIL
PROD. FORM: MNCS, CHCR

WELL: 24
LEASE: JICARILLA C
API: 300390582600
OPERATOR: SKELLY OIL
PROD. FORM: GLLP, CHCR

WELL: 6
LEASE: JICARILLA-APACHE A
API: 300390583900
OPERATOR: AMERADA HESS CORP
PROD. FORM: GRNR, CHCR

WELL: 1
LEASE: JICARILLA A
API: 300390586800
OPERATOR: AMERADA HESS CORP
PROD. FORM: PCCF

WELL: 5
LEASE: JICARILLA C
API: 300390581500
OPERATOR: SKELLY OIL
PROD. FORM: PCCF

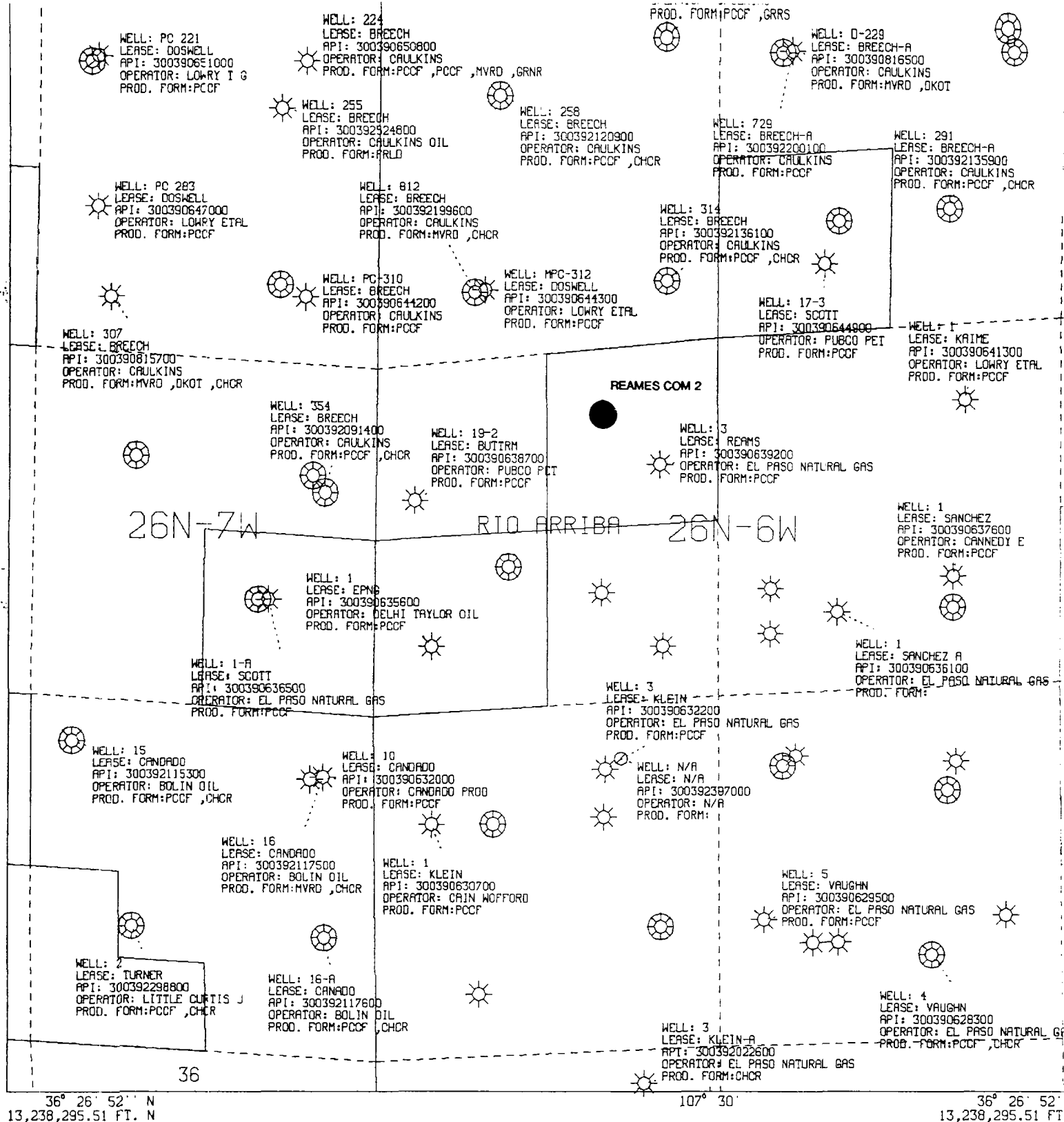
WELL: 123
LEASE: JICARILLA C
API: 300390578000
OPERATOR: SKELLY OIL
PROD. FORM: GLLP

WELL: 7
LEASE: JICARILLA A
API: 300392115100
OPERATOR: AMERADA HESS CORP
PROD. FORM: MNCS

WELL: 4
LEASE: JICARILLA A
API: 300390578700
OPERATOR: AMERADA HESS CORP
PROD. FORM: PCCF, LVNN

WELL: 9
LEASE: JICARILLA C
API: 300390581200
OPERATOR: SKELLY OIL
PROD. FORM: PCCF

WELL: 1
LEASE: JICARILLA
API: 300390586800
OPERATOR: AMERADA HESS CORP
PROD. FORM: PCCF



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AMOCO PRODUCTION COMPANY PLAT MAP

POLYCONIC CENTRAL MERIDIAN - 107° 30' 30'' W LONG
SPHEROID - 3

26N-6W
CANDIDATE FOR SURFACE COMMINGLING
SCALE 1 IN. = 2,000 FT. JUL 1, 1997

WELL NAME	LOCATION	FM	1992 MO GAS AVG	1992 MO OIL AVG	PRORATION STATUS	COMMENTS
Jicarilla Apache 102 10E	K042604	DK	10594	88	Marginal	
Jicarilla Apache 102 10E		GP	0	0		B.S. Mesa field
Jicarilla Apache 102 8E	I032604	MV	1156	0	Marginal	
Jicarilla Apache 102 8E		DK	5858	93	Marginal	
Jicarilla Contract 146 22	A102505	DK	2447	10	Marginal	
Jicarilla Contract 146 22		PC	309	0	Marginal	South Blanco field
Jicarilla Contract 146 29	A092505	CK	1356	0		Otero field
Jicarilla Contract 146 29		PC	1193	0	Marginal	South Blanco field
Jicarilla Contract 146 32	A102505	CK	957	0		
Jicarilla Contract 146 32		MV	263	6	Marginal	Otero field
Jicarilla Contract 146 36	A042505	CK	2176	2		Otero field
Jicarilla Contract 146 36		MV	2155	149	Non Marginal	As of 3/92, no over production
Jicarilla Contract 146 39	J032505	CK	1944	0		Otero field
Jicarilla Contract 146 39		MV	1065	119	Marginal	
Jicarilla Contract 148 20	B232505	CK	181	0		Otero field
Jicarilla Contract 148 20		PC	760	0	Marginal	South Blanco field
Jicarilla Contract 148 22	M132505	PC	21	0	Marginal	South Blanco field
Jicarilla Contract 148 22		CK	10	0		Otero field
Jicarilla Contract 148 25	A152505	PC	2050	0	Marginal	South Blanco field
Jicarilla Contract 148 25		CK	431	0		Otero field
Jicarilla Contract 148 26	H142505	PC	3	0	Marginal	South Blanco field
Jicarilla Contract 148 26		CK	453	0		Otero field
Jicarilla Contract 155 29	F322605	MV	2502	81	Marginal	
Jicarilla Contract 155 29		CK	990	0		Otero field
Jicarilla Contract 155 31	H292605	PC	658	0	Marginal	South Blanco field
Jicarilla Contract 155 31		CK	975	0		Otero field
Jicarilla Gas Com 155 A 1	H322605	CK	738	0		
Jicarilla Gas Com 155 A 1		MV	3639	195	Non Marginal	As of 3/92, no over production; Otero field
*Jicarilla A 1E	F182605	DK	2104	25	Marginal	
*Jicarilla A 1E		CK	101	0		Otero field
*Jicarilla A 2	B182605	GP	0	0		
*Jicarilla A 2		DK	3744	26	Non Marginal	As of 3/92, no over production
*Jicarilla A 3	A192605	DK	2498	14	Marginal	
*Jicarilla A 3		GP	146	22		Tapicito field
*Jicarilla A 5	G202605	GP	0	0		Tapicito field
*Jicarilla A 5		DK	1195	60	Marginal	
*Jicarilla A 8	H172605	GP	1244	16		Tapicito field
*Jicarilla A 8		DK	709	3		
*Jicarilla A 9	D202605	CK	223	1		Otero field
*Jicarilla A 9		MV	236	1	Marginal	

			1992 MO	1992 MO	PRORATION	
WELL NAME	LOCATION	FM	GAS AVG	OIL AVG	STATUS	COMMENTS
*Jicarilla B 2E	J162605	DK	1347	30	Marginal	J162605
*Jicarilla B 2E		CK	905	0		Otero field
*Jicarilla B 4	H212605	GP	173	0		Tapicito field
*Jicarilla B 4		DK	2095	34	Marginal	
*Jicarilla B 7	H162605	GP	39	22		Tapicito field
*Jicarilla B 7		DK	1695	7	Marginal	
*Jicarilla B 7E	C162605	DK	505	33	Marginal	
*Jicarilla B 7E		CK	1095	0		Otero field
*Jicarilla B 8M	C152605	MV	321	0	Marginal	B152605
*Jicarilla B 8M		DK	1011	0	Marginal	B152605
*Jicarilla C 2E	I142605	DK	3337	12	Non Marginal	As of 3/92, no over production
*Jicarilla C 2E		MV	1259	0	Marginal	B142605
*Jicarilla C 3	I232605	DK	3694	24	Marginal	B232605
*Jicarilla C 3		GP	241	0		Tapicito field
*Jicarilla C 6	F142605	MV	495	2	Marginal	B142605
*Jicarilla C 6		DK	493	0	Marginal	B142605
*Reames Com 2	B192606	MV	4545	30	Marginal	B192606
*Reames Com 2		DK	4256	0	Marginal	B192606

WELL NAME	FM	LOCATION	DRILL BLOCK
LEASE NAME: JICARILLA 102			
Jicarilla Apache 102 10E	DK	K042604	W/2
Jicarilla Apache 102 10E	GP	K042604	W/2
Jicarilla Apache 102 8 E	MV	I032604	E/2
Jicarilla Apache 102 8E	DK	I032604	S/2
LEASE NAME: JICARILLA 146			
Jicarilla Contract 146 22	DK	A102505	N/2
Jicarilla Contract 146 22	PC		NE/4
Jicarilla Contract 146 29	CK	A092505	NE/4
Jicarilla Contract 146 29	PC		NE/4
Jicarilla Contract 146 32	CK	A102505	NE/4
Jicarilla Contract 146 32	MV		NE/4
Jicarilla Contract 146 36	CK	A042505	NE/4
Jicarilla Contract 146 36	MV		NE/4
Jicarilla Contract 146 39	CK	J032505	SE/4
Jicarilla Contract 146 39	MV		SE/4
LEASE NAME: JICARILLA 148			
Jicarilla Contract 148 20	CK	B232505	NE/4
Jicarilla Contract 148 20	PC		NE/4
Jicarilla Contract 148 22	PC	M132505	SW/4
Jicarilla Contract 148 22	CK		SW/4
Jicarilla Contract 148 25	PC	A152505	NE/4
Jicarilla Contract 148 25	CK		NE/4
Jicarilla Contract 148 26	PC	H142505	NE/4
Jicarilla Contract 148 26	CK		NE/4
LEASE NAME: JICARILLA 155			
Jicarilla Contract 155 29	MV	F322605	NW/4
Jicarilla Contract 155 29	CK		NW/4
Jicarilla Contract 155 31	PC	H292605	NE/4
Jicarilla Contract 155 31	CK		NE/4
LEASE NAME: JICARILLA 155 A			
Jicarilla Gas Com 155 A 1	CK	H322605	NE/4
Jicarilla Gas Com 155 A 1	MV		NE/4
LEASE NAME: JICARILLA A			
*Jicarilla A 1E	DK	F182605	W/2
*Jicarilla A 1E	CK		W/2
*Jicarilla A 2	GP	B182605	E/2
*Jicarilla A 2	DK		E/2
*Jicarilla A 3	DK	A192605	E/2
*Jicarilla A 3	GP		E/2
*Jicarilla A 5	GP	G202605	E/2
*Jicarilla A 5	DK		E/2
*Jicarilla A 8	GP	H172605	E/2
*Jicarilla A 8	DK		E/2

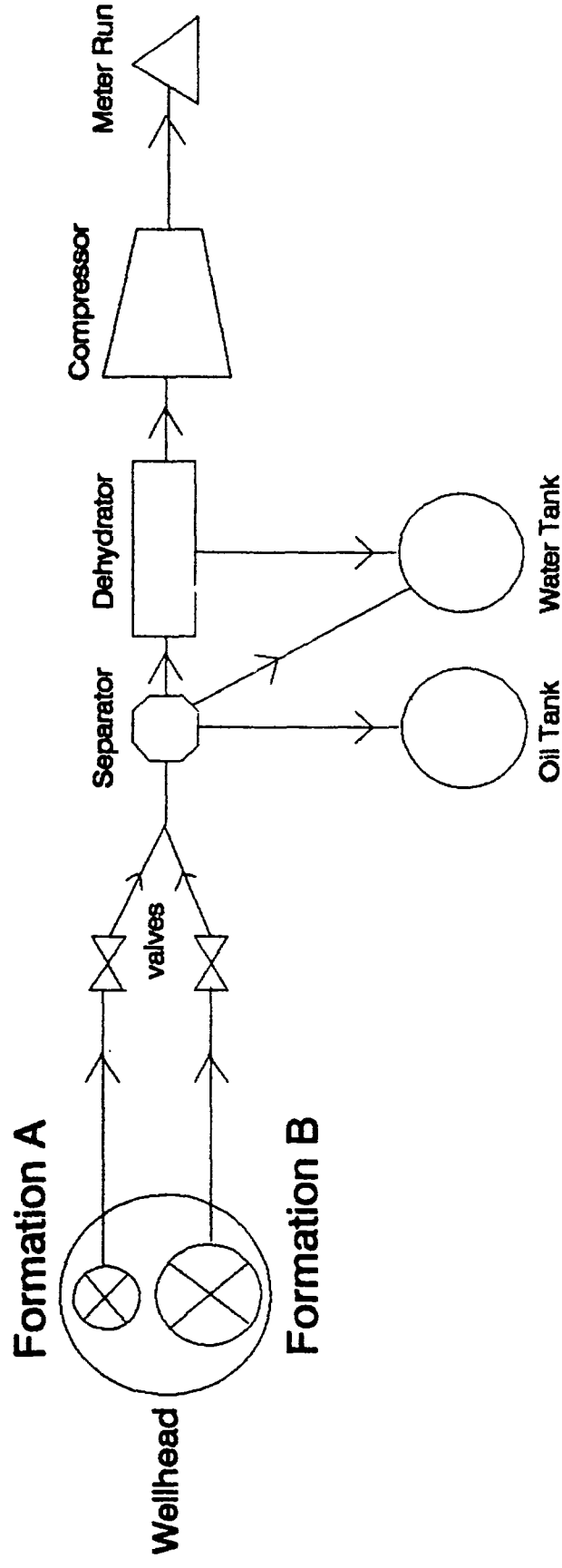
*Jicarilla A 9	CK	D202605	W/2
*Jicarilla A 9	MV		W/2
WELL NAME	FM	LOCATION	DRILL BLOCK
LEASE NAME: JICARILLA B			
*Jicarilla B 2E	DK	J162605	S/2
*Jicarilla B 2E	CK		S/2
*Jicarilla B 4	GP	H212605	E/2
*Jicarilla B 4	DK		E/2
*Jicarilla B 7	GP	H162605	N/2
*Jicarilla B 7	DK		N/2
*Jicarilla B 7E	DK	C162605	N/2
*Jicarilla B 7E	CK		N/2
*Jicarilla B 8M	MV	C152605	N/2
*Jicarilla B 8M	DK		N/2
LEASE NAME: JICARILLA C			
*Jicarilla C 2E	DK	I142605	S/2
*Jicarilla C 2E	MV		S/2
*Jicarilla C 3	DK	I232605	S/2
*Jicarilla C 3	GP		S/2
*Jicarilla C 6	MV	F142605	N/2
*Jicarilla C 6	DK		N/2
LEASE NAME: REAMES COM			
*Reames Com 2	MV	B192606	E/2
*Reames Com 2	DK		

WELL NAME	FM	LOCATION	NRI	WI OWNER	ORI	ADDRESS OF ORI	RI	ADDRESS OF RI
LEASE NAME: JICARILLA A								
*Jicarilla A 1E	DK	F182605	21.875%	Amoco Production Co. P.O. Box 591	None	None	12.5000%	Jicarilla Apache Tribe P.O. Box 2053
*Jicarilla A 1E	CK			Tulsa, OK 741-2-0591				Albuquerque NM 87103
*Jicarilla A 2	GP	B182605						
*Jicarilla A 2	DK							
*Jicarilla A 3	DK	A192605	21.875%	Conoco, Inc				
*Jicarilla A 3	GP			P.O. Box 951063				
*Jicarilla A 5	GP	G202605		Dallas, TX 75395-1063				
*Jicarilla A 5	DK							
*Jicarilla A 8	GP	H172605	43.75%	Arco Oil and Gas Co.				
*Jicarilla A 8	DK			P.O. Box 2819				
*Jicarilla A 9	CK	D202605		Dallas, TX 75221				
*Jicarilla A 9	MV		87.50%				12.5000%	100.000%
LEASE NAME: JICARILLA B								
*Jicarilla B 2E	DK	J162605	21.875%	Amoco Production Co.	None	None	12.5000%	Jicarilla Apache Tribe
*Jicarilla B 2E	CK			P.O. Box 591				P.O. Box 2053
*Jicarilla B 4	GP	H212605		Tulsa, OK 741-2-0591				Albuquerque NM 87103
*Jicarilla B 4	DK		21.875%	Conoco, Inc				
*Jicarilla B 7	GP	H162605		P.O. Box 951063				
*Jicarilla B 7	DK			Dallas, TX 75395-1063				
*Jicarilla B 7E	DK	C162605						
*Jicarilla B 7E	CK		43.75%	Arco Oil and Gas Co.				
*Jicarilla B 8M	MV	C152605		P.O. Box 2819				
*Jicarilla B 8M	DK		87.50%	Dallas, TX 75221			12.5000%	100.000%
LEASE NAME: JICARILLA C								
*Jicarilla C 2E	DK	I142605	21.875%	Amoco Production Co.	None	None	12.5000%	Jicarilla Apache Tribe
*Jicarilla C 2E	MV			P.O. Box 591				P.O. Box 2053
*Jicarilla C 3	DK	I232605		Tulsa, OK 741-2-0591				Albuquerque NM 87103
*Jicarilla C 3	GP		21.875%	Conoco, Inc				
*Jicarilla C 6	MV	F142605		P.O. Box 951063				
*Jicarilla C 6	DK			Dallas, TX 75395-1063				
			43.75%	Arco Oil and Gas Co.				
				P.O. Box 2819				
				Dallas, TX 75221				
			87.50%				12.5000%	100.00%

WELL NAME	FM LOCATION	NRI	WI OWNER	ORI	ADDRESS OF ORI	RI	ADDRESS OF RI
LEASE NAME: REAMES COM		15.97%	Amoco Production Co.	0.2482%	Linda M. Adkins	12.50%	Minerals Manage Service
*Reames Com 2	MV B192606		P.O. Box 591		2916 S. Morain Pl		P.O. Box 5810 TA
*Reames Com 2	DK		Tulsa, OK 741-2-0591		Kennewick WA 99337		Denver CO 80217
		59.07%	Conoco, Inc	0.0496%	Amoco Production Co.		
			P.O. Box 951063				
			Dallas, TX 75395-1063	1.4900%	James C. Beach		
					P.O. Box 25500		
		4.41%	Meridian Oil Inc.		Albuquerque NM 87125		
			2919 Allen Pkwy, Ste 900				
			Houston, TX 77019	1.4900%	Joe Dan Beach		
					P.O. Box 11863		
					Albuquerque NM 87192		
				0.2482%	Edgar Boring, et ux		
					P.O. Box 829		
					Bayfield CO 81122		
				0.5208%	Ann Hancock Dorie		
					5315 Preston Haven		
					Dallas TX 75229		
				0.5208%	J.D. Hancock, Jr.		
					4339 Versalles		
					Dallas TX 75205		
				0.5208%	John L. Hancock		
					3600 Dartmouth		
					Dallas TX 75205		
				0.2482%	Myra L. Jones		
					3915 S. Aldon		
					Tucson AZ 85746		
				1.6390%	Professional Title Agency		
					319 7th St. NW Suite B		
					Albuquerque NM 87102		
				0.8256%	Janice E. Robertson		
					PO Box 497		
					Peralta NM 87042		
				0.2482%	Susan E. Schulze		
					P.O. Box 2225		
					Farmington NM 87499		
		79.45%		8.0550%		12.50%	100.00%

WELL NAME	FM LOCATION	NRI	WI OWNER	ORI	ADDRESS OF ORI	RI	ADDRESS OF RI
LEASE NAME: JICARILLA 102							
Jicarilla Apache 102 10E	DK K042604	87.50%	Amoco Production Co. P.O. Box 591	None	None	12.5000%	Jicarilla Apache Tribe P.O. Box 2053
Jicarilla Apache 102 10E	GP K042604		Tulsa, OK 741-2-0591				Albuquerque NM 87103
Jicarilla Apache 102 8 E	MV I032604						
Jicarilla Apache 102 8E	DK I032604						
		87.50%				12.5000%	100.000%
LEASE NAME: JICARILLA 146							
Jicarilla Contract 146 22	DK A102505	87.50%	Amoco Production Co. P.O. Box 591	None	None	12.5000%	Jicarilla Apache Tribe P.O. Box 2053
Jicarilla Contract 146 22	PC		Tulsa, OK 741-2-0591				Albuquerque NM 87103
Jicarilla Contract 146 29	CK A092505						
Jicarilla Contract 146 29	PC						
Jicarilla Contract 146 32	CK A102505						
Jicarilla Contract 146 32	MV						
Jicarilla Contract 146 36	CK A042505						
Jicarilla Contract 146 36	MV						
Jicarilla Contract 146 39	CK J032505						
Jicarilla Contract 146 39	MV	87.50%				12.5000%	100.000%
LEASE NAME: JICARILLA 148							
Jicarilla Contract 148 20	CK B232505	87.50%	Amoco Production Co. P.O. Box 591	None	None	12.5000%	Jicarilla Apache Tribe P.O. Box 2053
Jicarilla Contract 148 20	PC		Tulsa, OK 741-2-0591				Albuquerque NM 87103
Jicarilla Contract 148 22	PC M132505						
Jicarilla Contract 148 22	CK						
Jicarilla Contract 148 25	PC A152505						
Jicarilla Contract 148 25	CK						
Jicarilla Contract 148 26	PC H142505						
Jicarilla Contract 148 26	CK	87.50%				12.5000%	100.000%

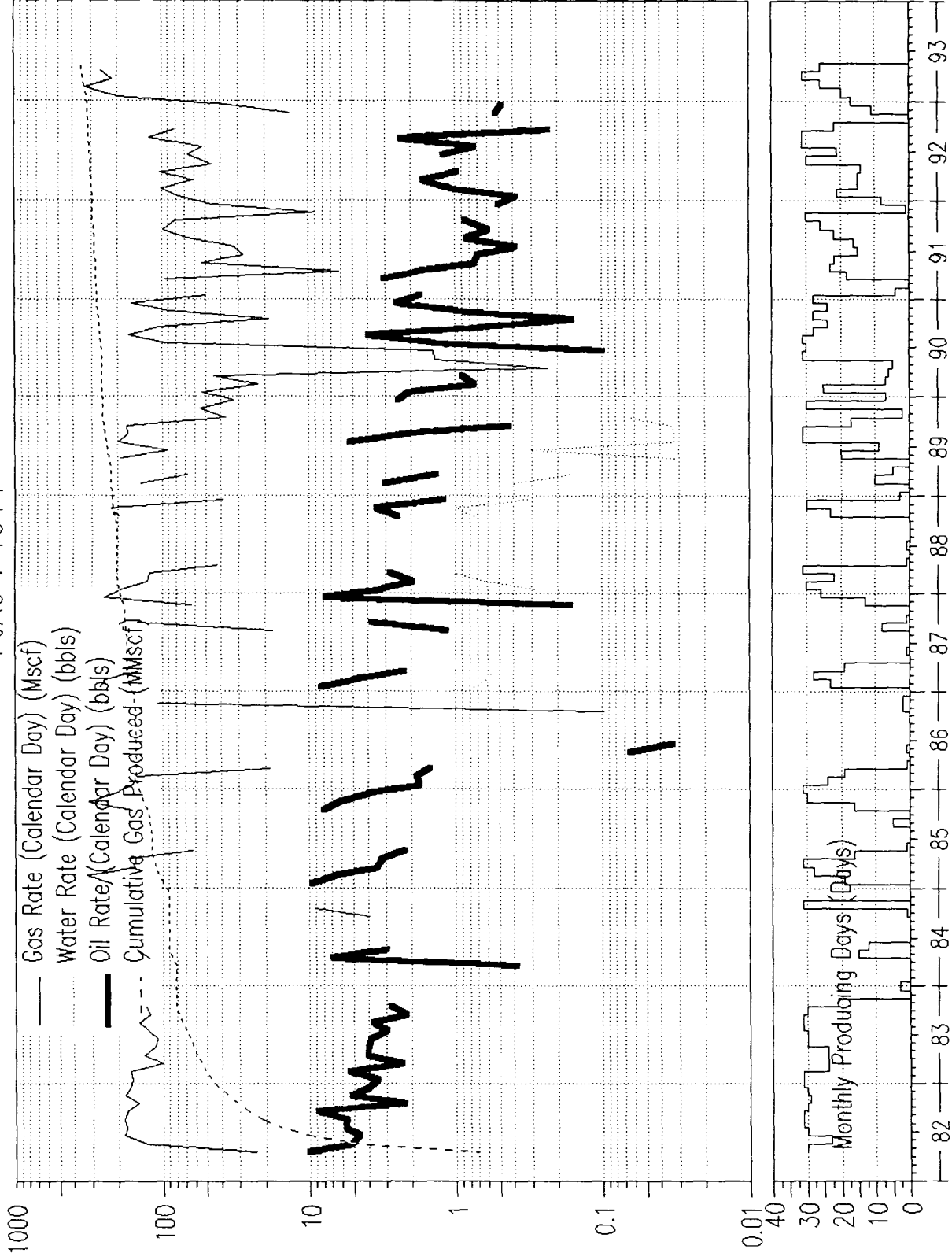
SURFACE COMMINGLE LOCATION DIAGRAM



JICARILLA A 1E

WELL: 300392258000:DK

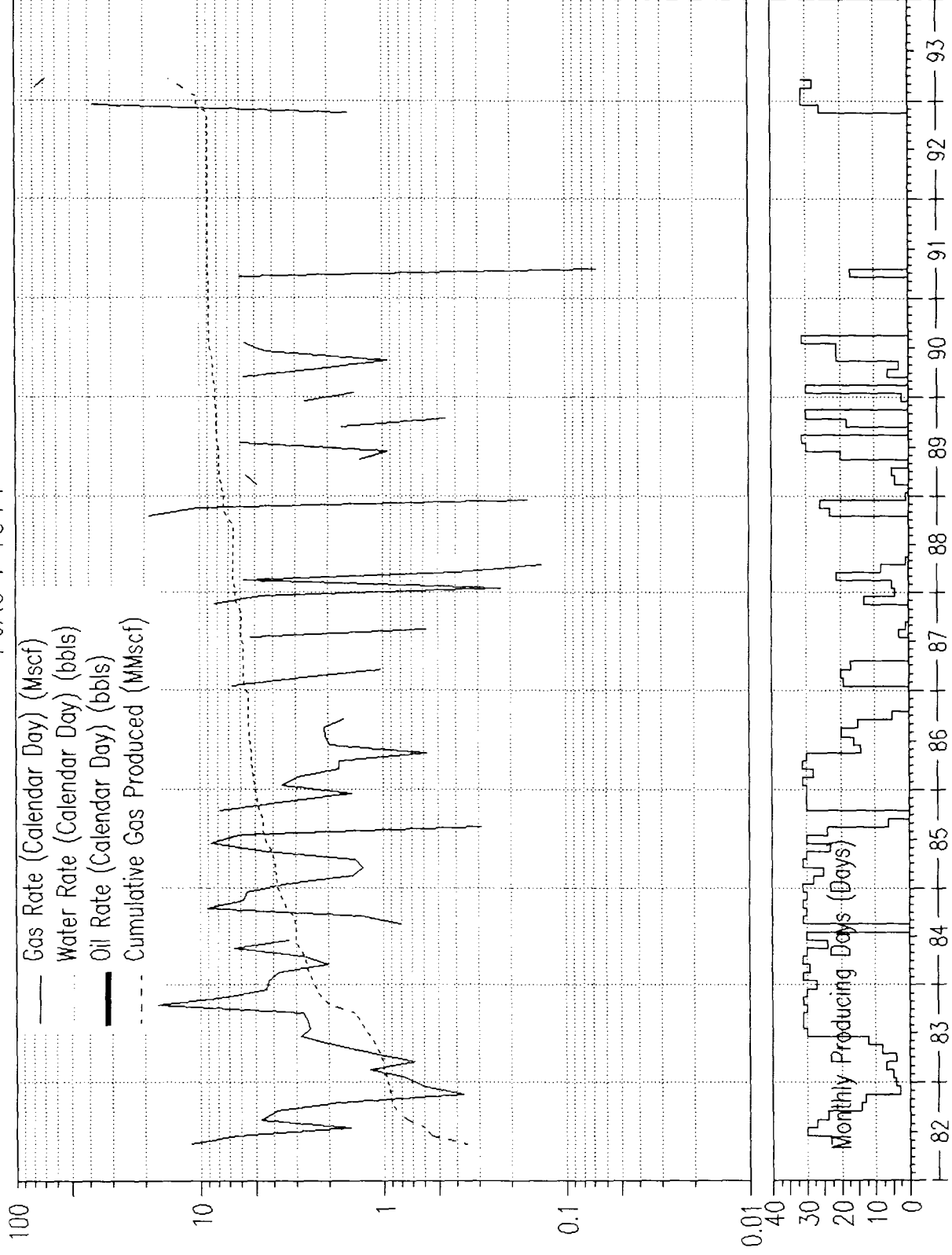
PJAC : 1014



JICARILLA A 1E

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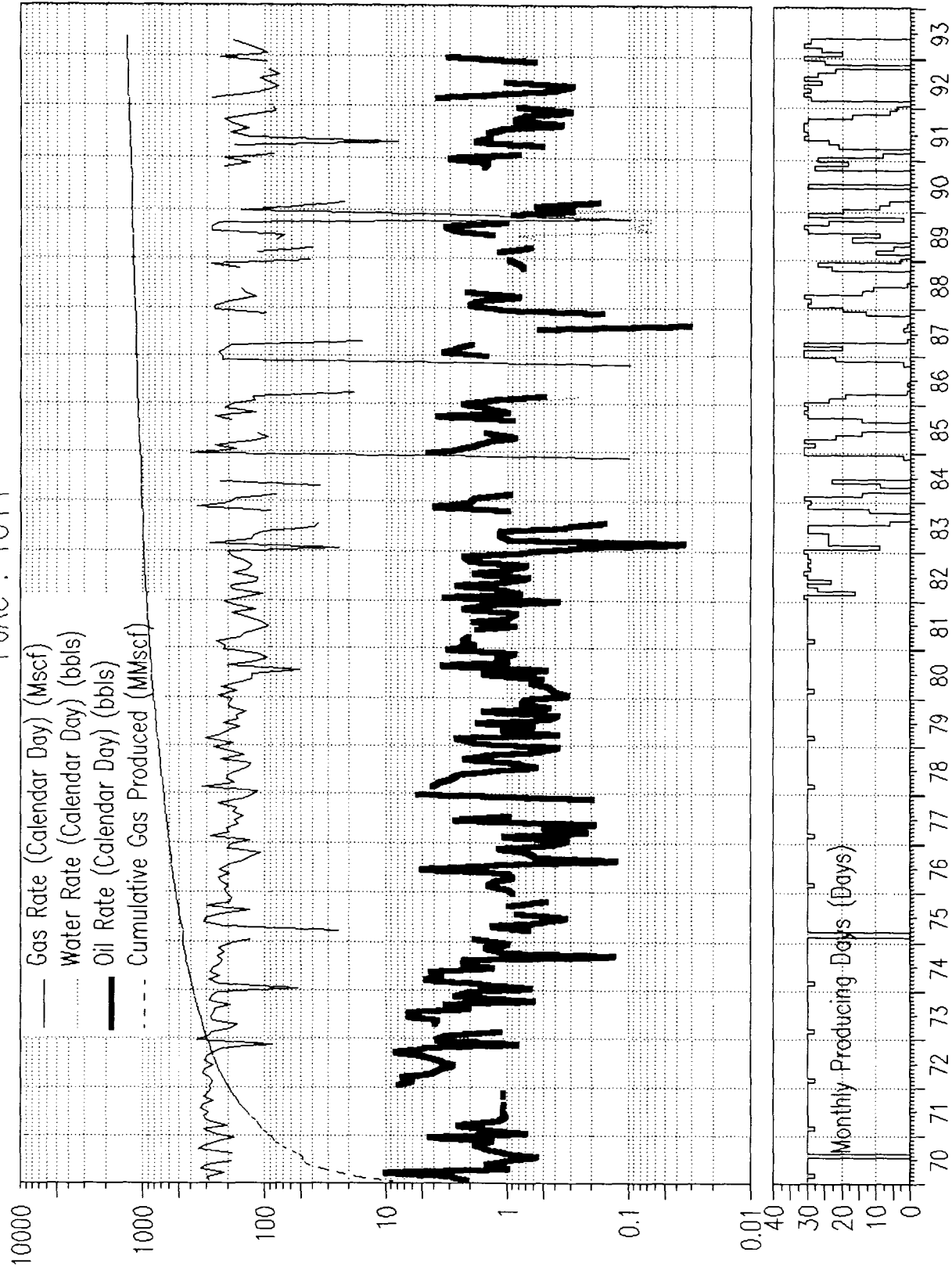
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JICARILLA A 2

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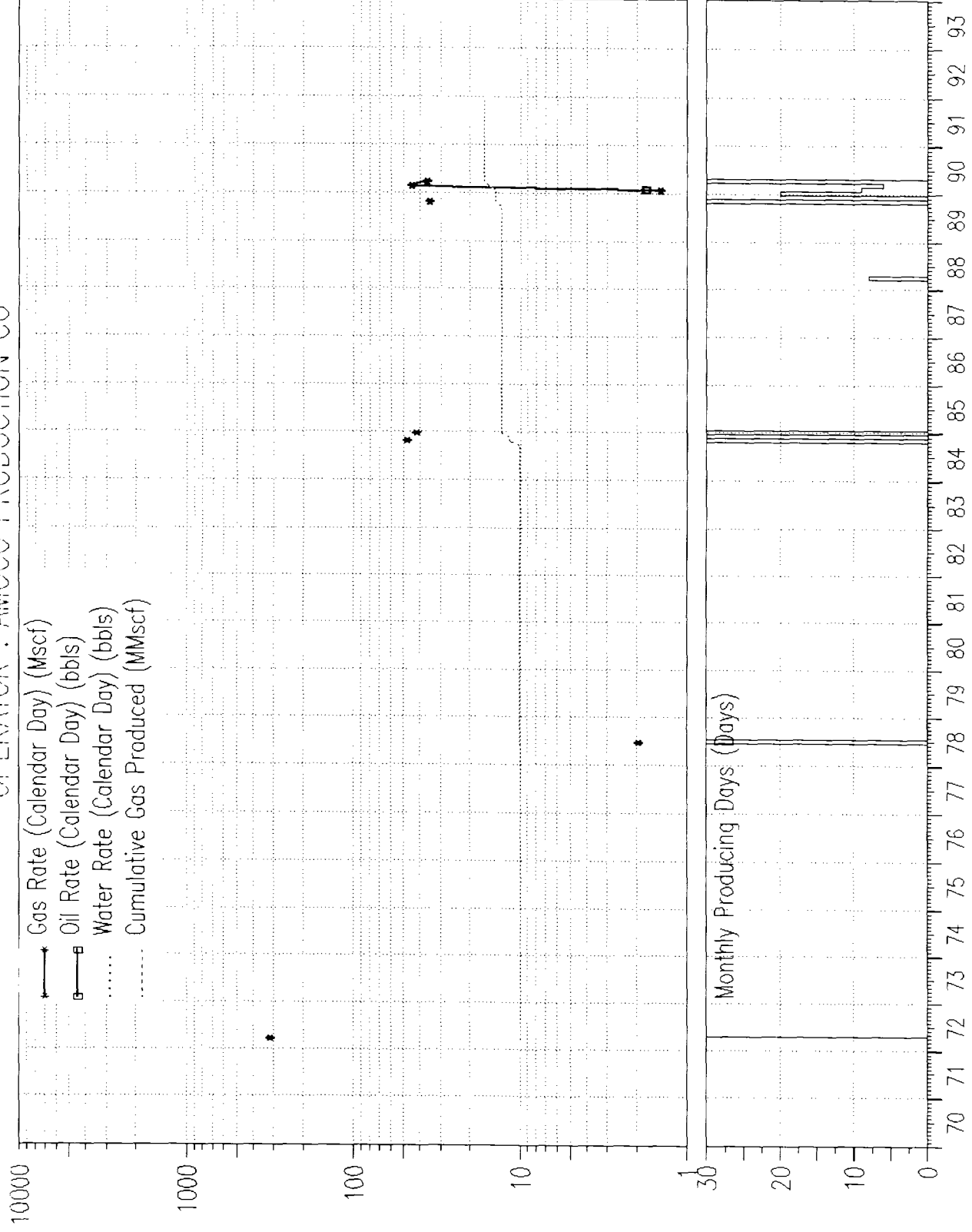
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JICARILLA A 2

WELL: 300390813600:GP

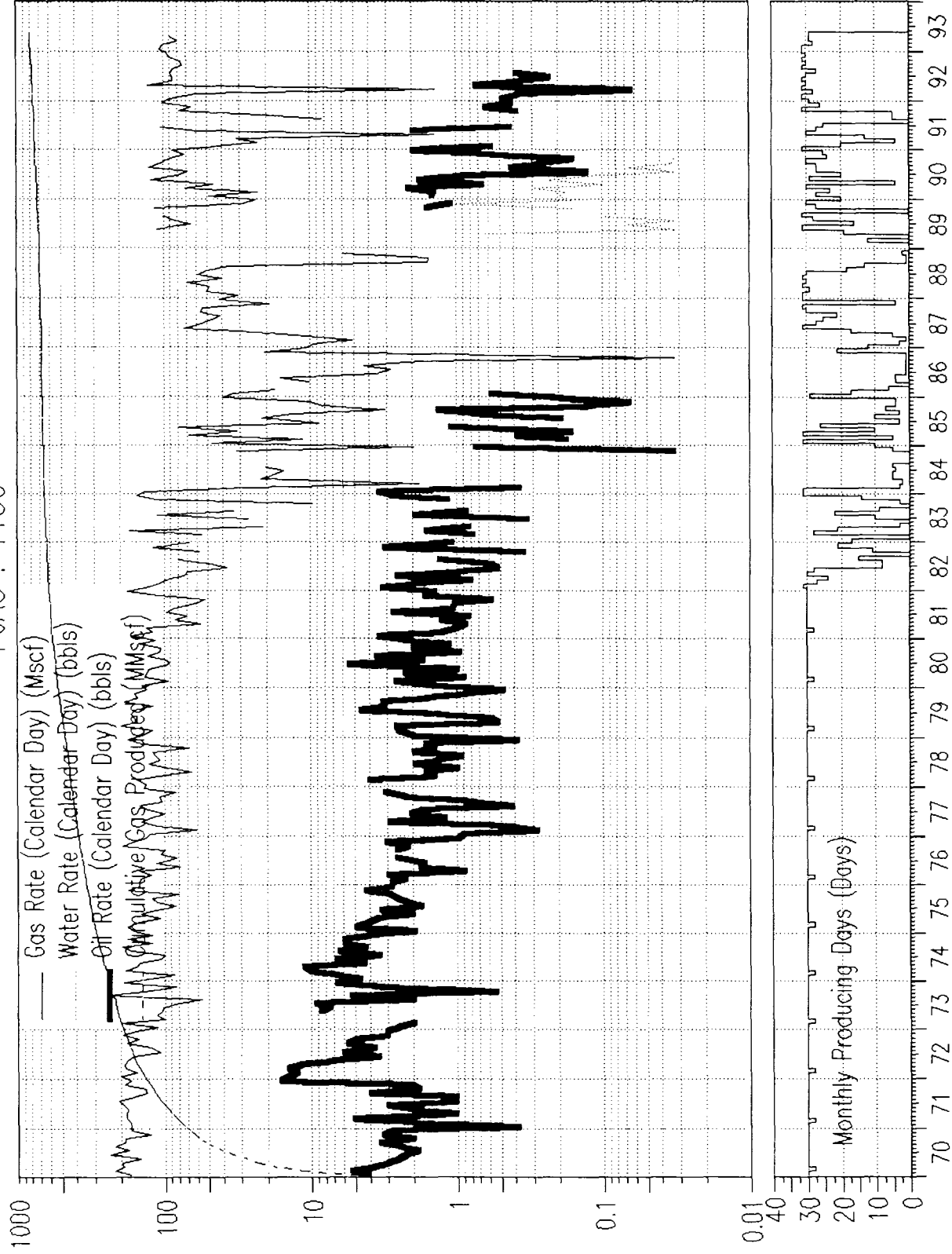
OPERATOR : AMOCO PRODUCTION CO



JICARILLA A 3

WELL: 300390642300:DK

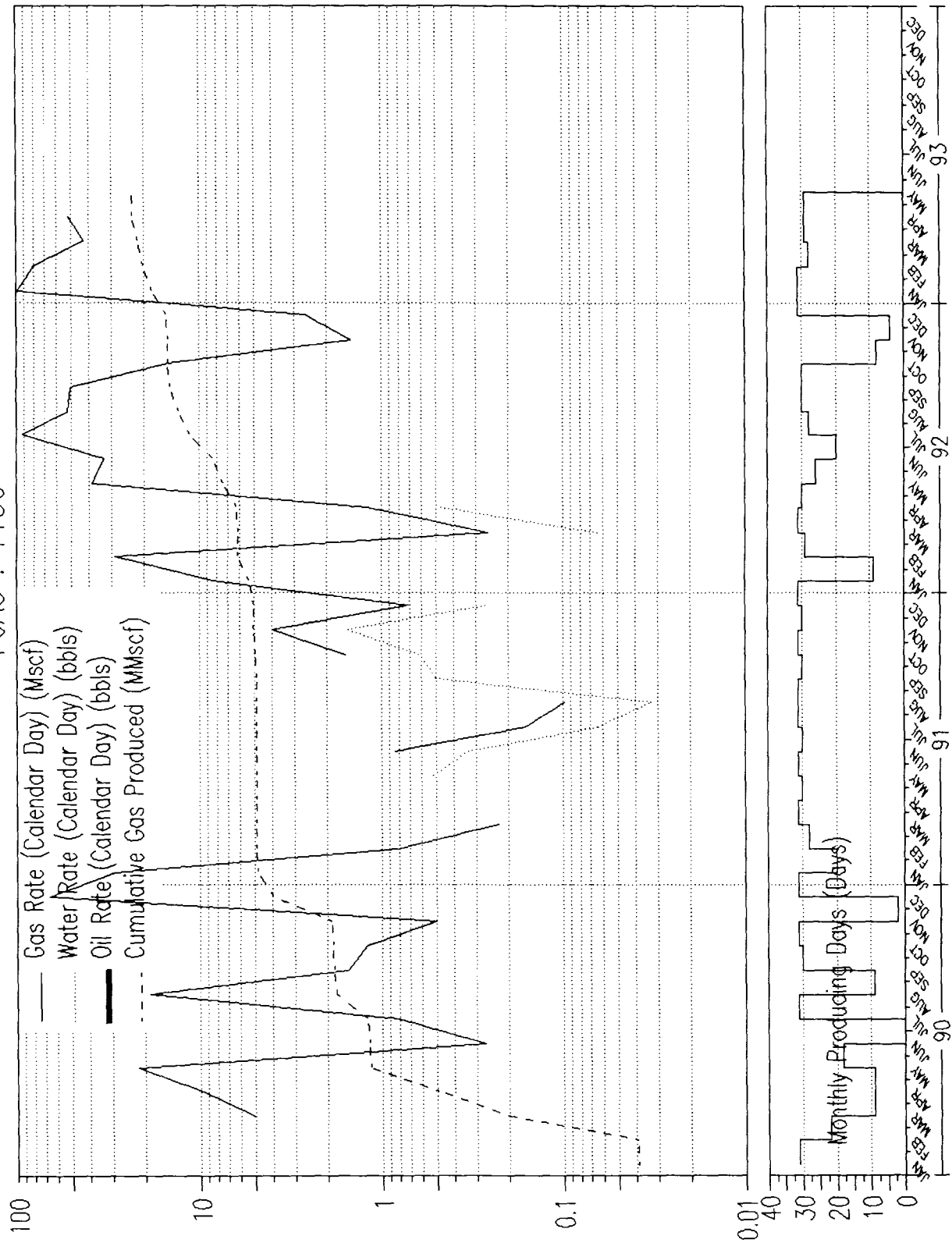
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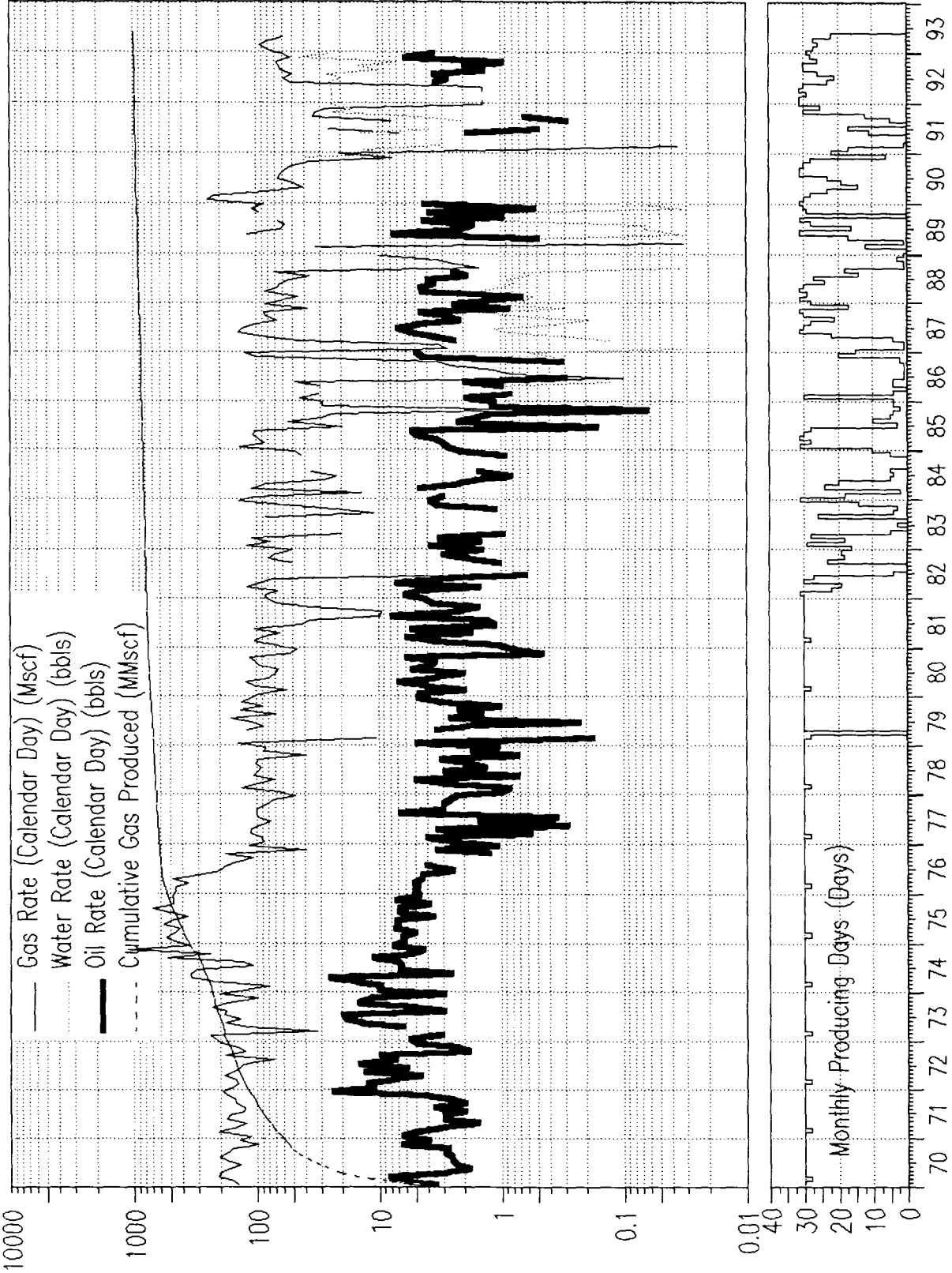
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WELL: 300390642300:GP

PJAC : 1130



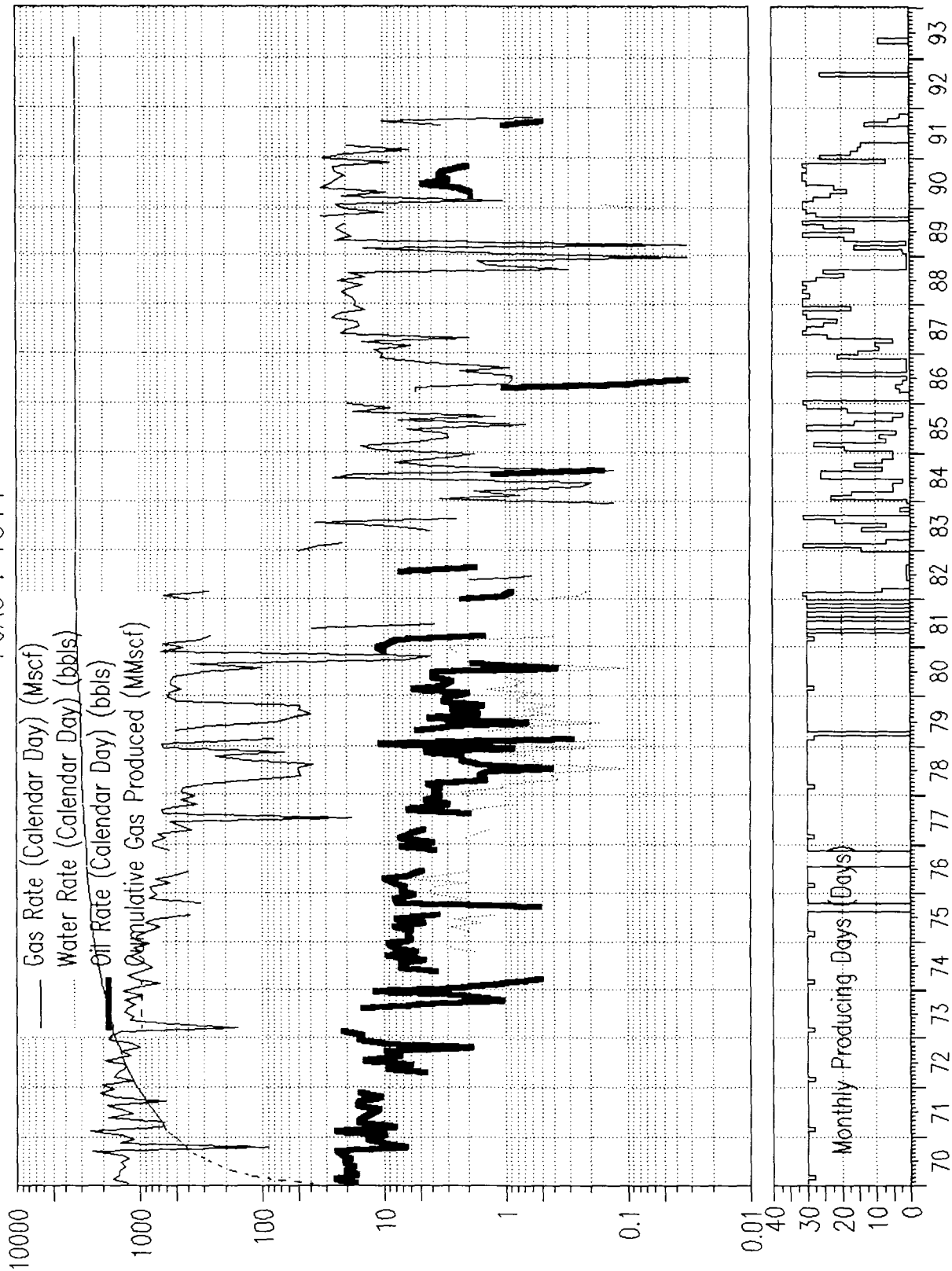
JICARILLA A 5
WELL: 300391188700:DK
PJAC : 1014



JICARILLA A 5

WELL: 300391188700:GP

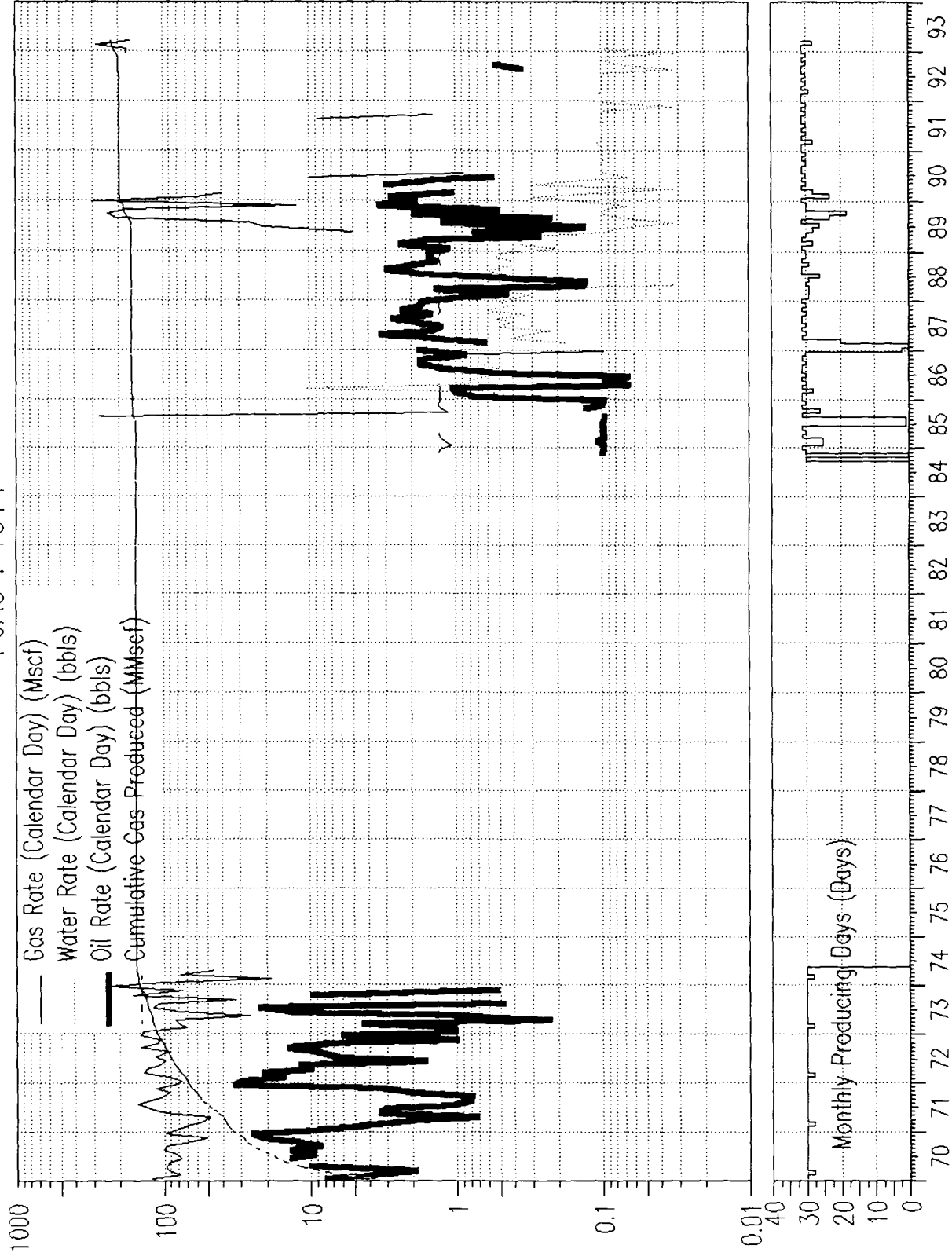
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JICARILLA A 8

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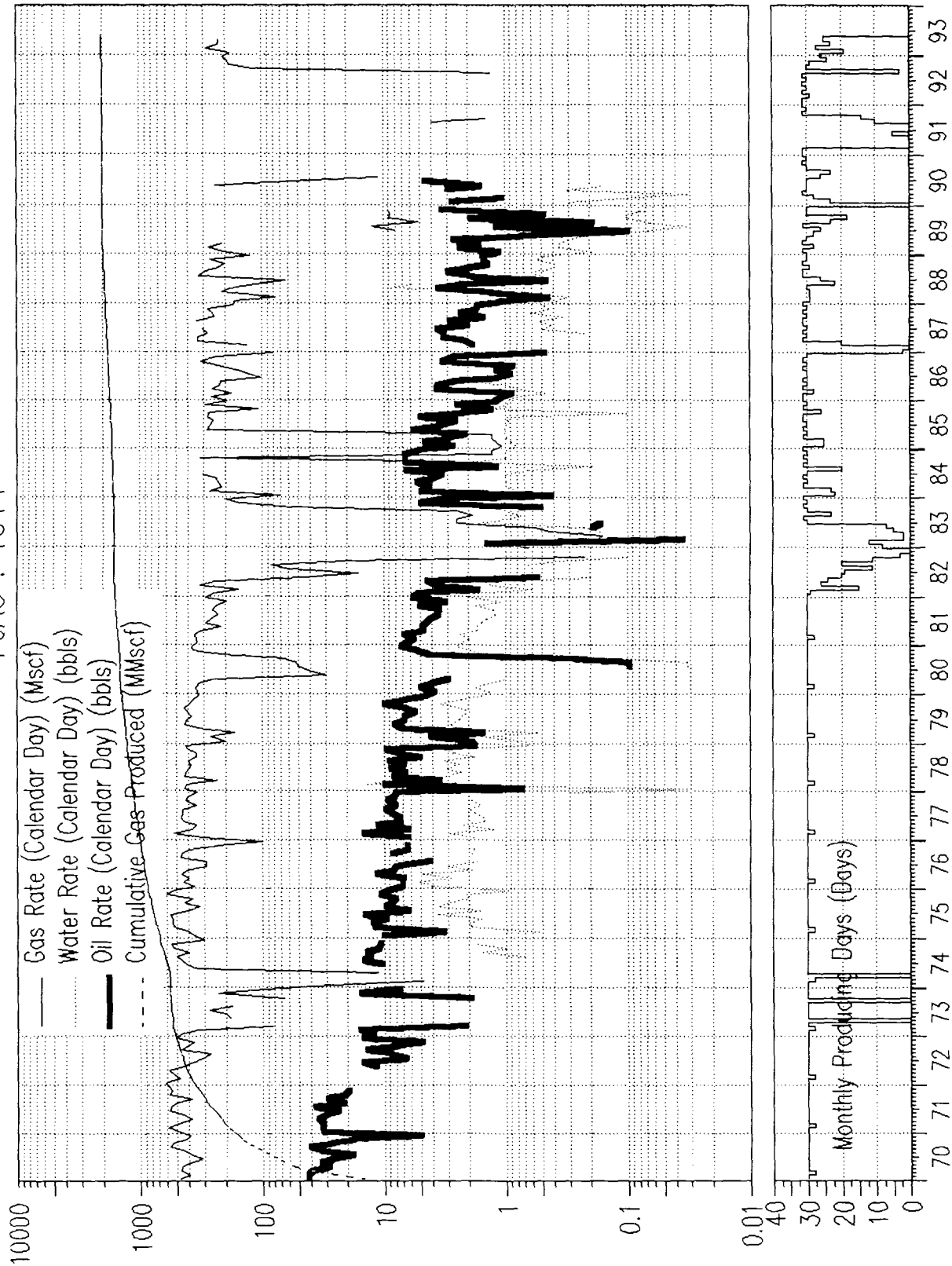
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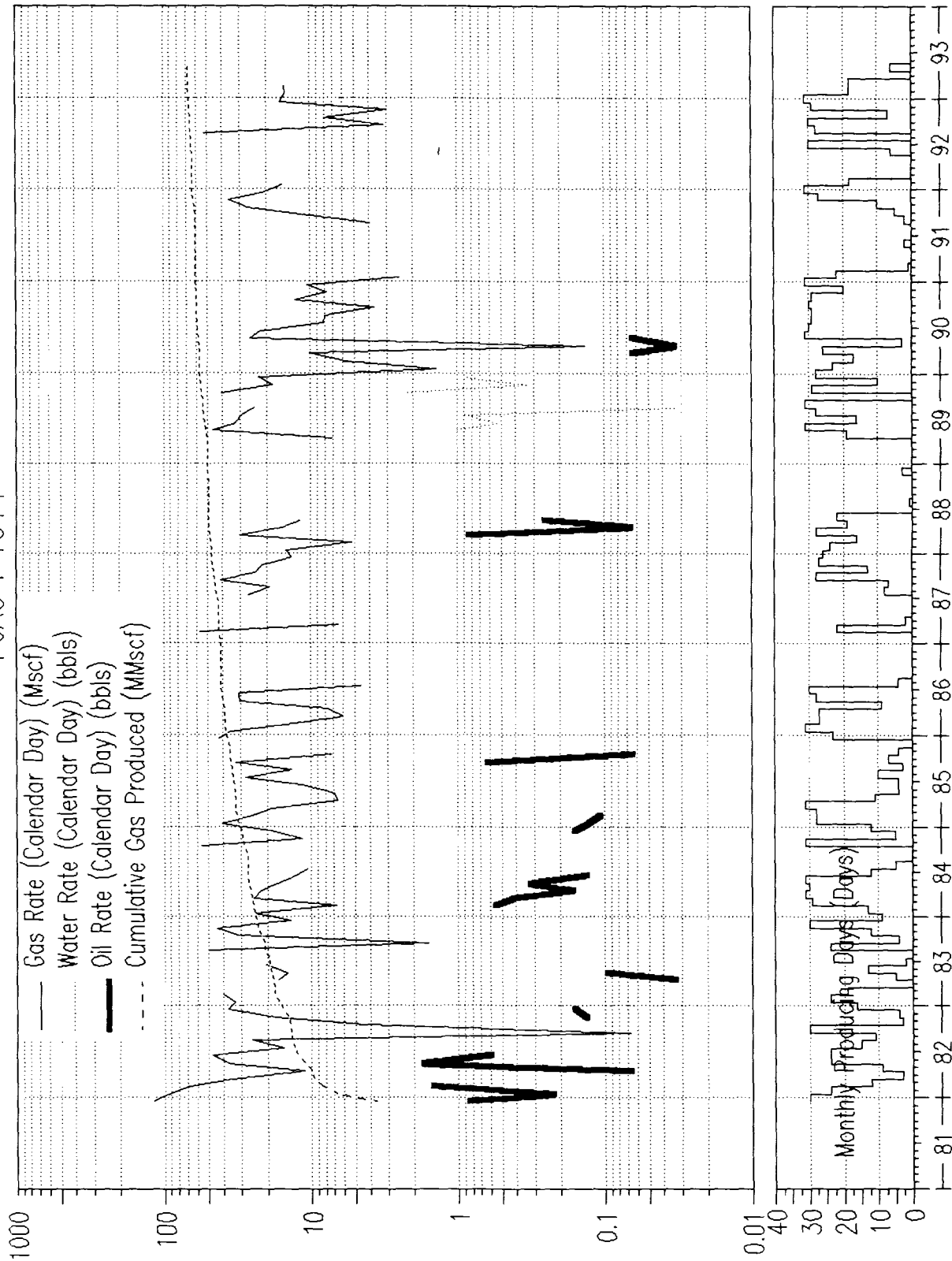
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JICARILLA A 9

WELL: 300392164300:MV

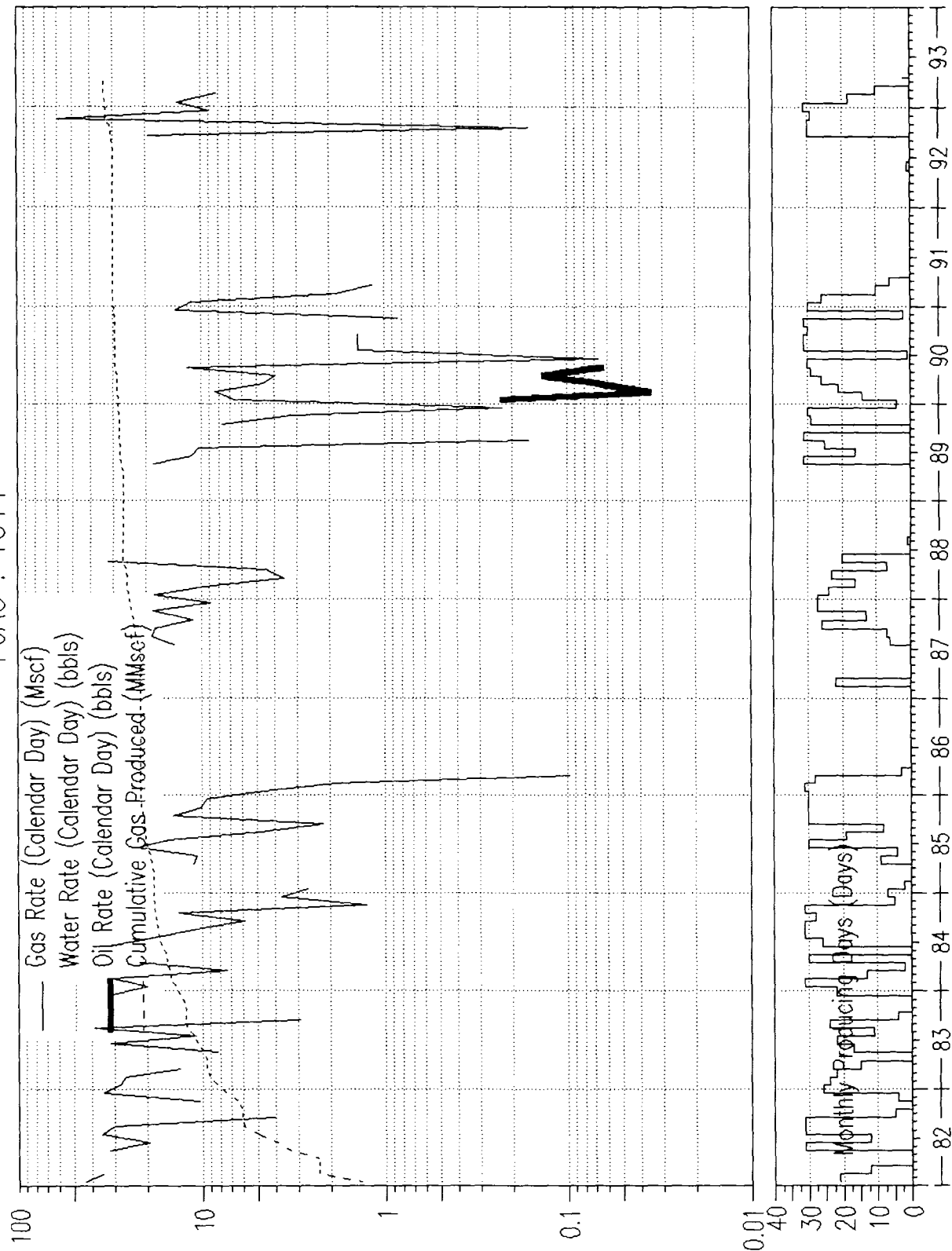
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JICARILLA A 9

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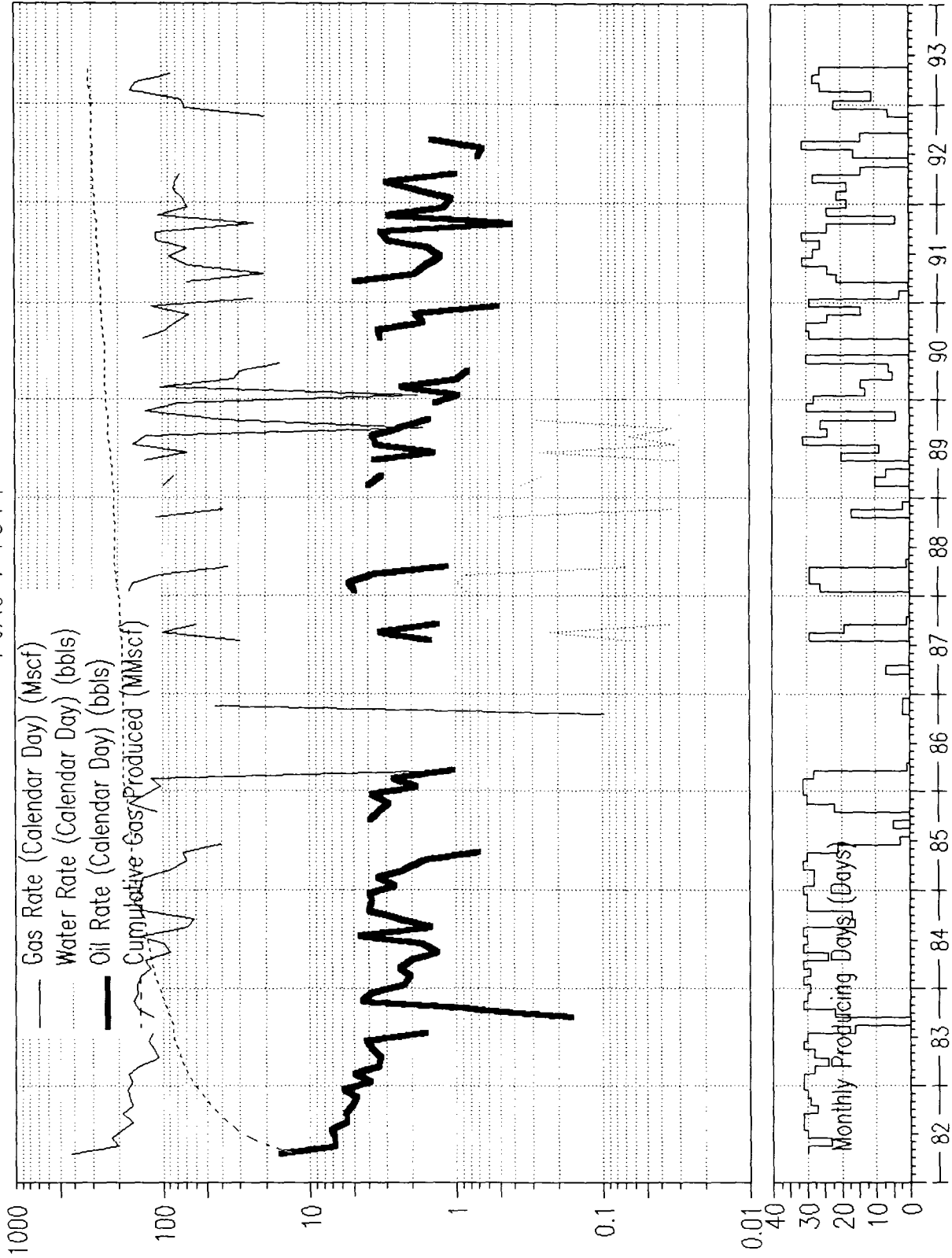
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JICARILLA B 2E

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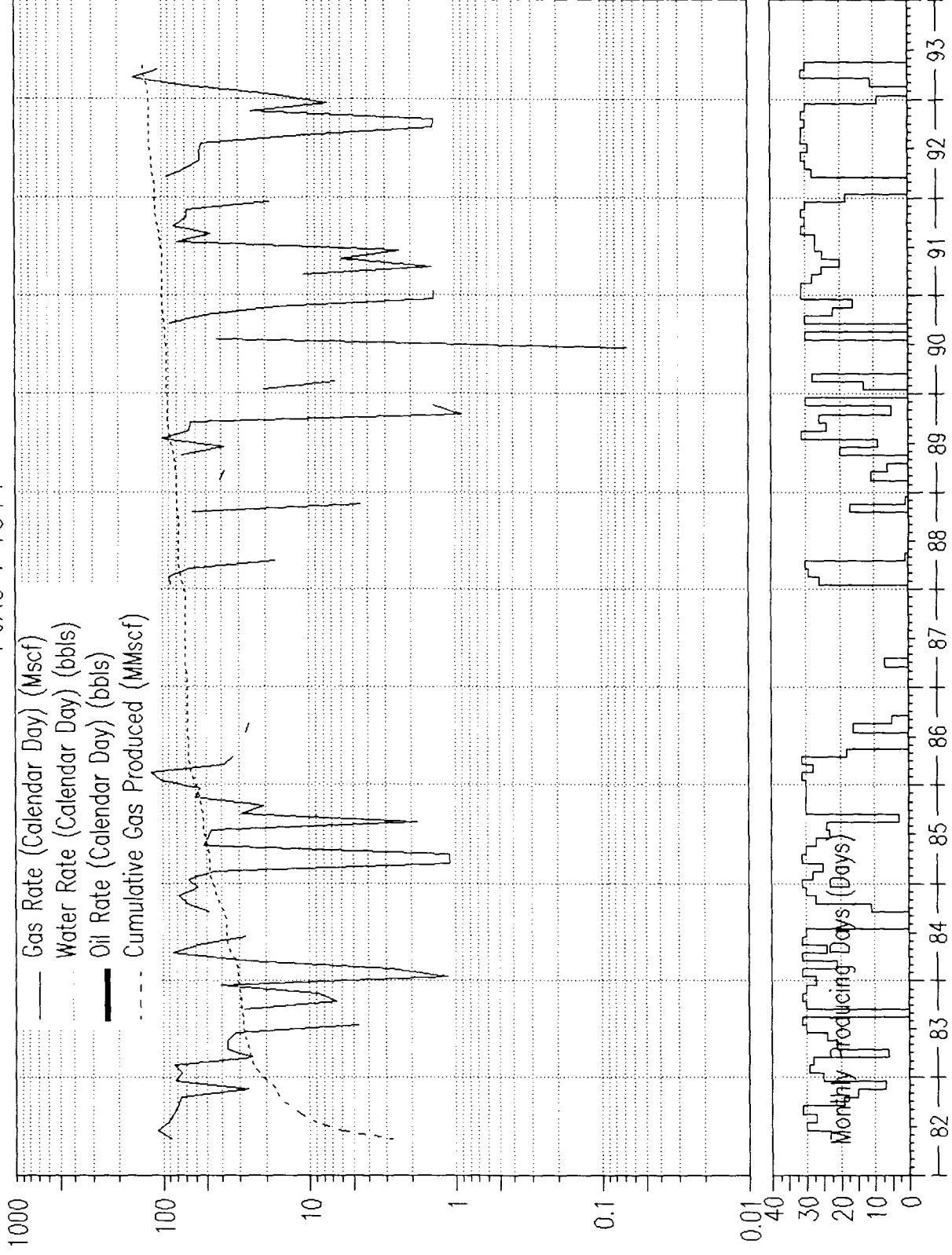
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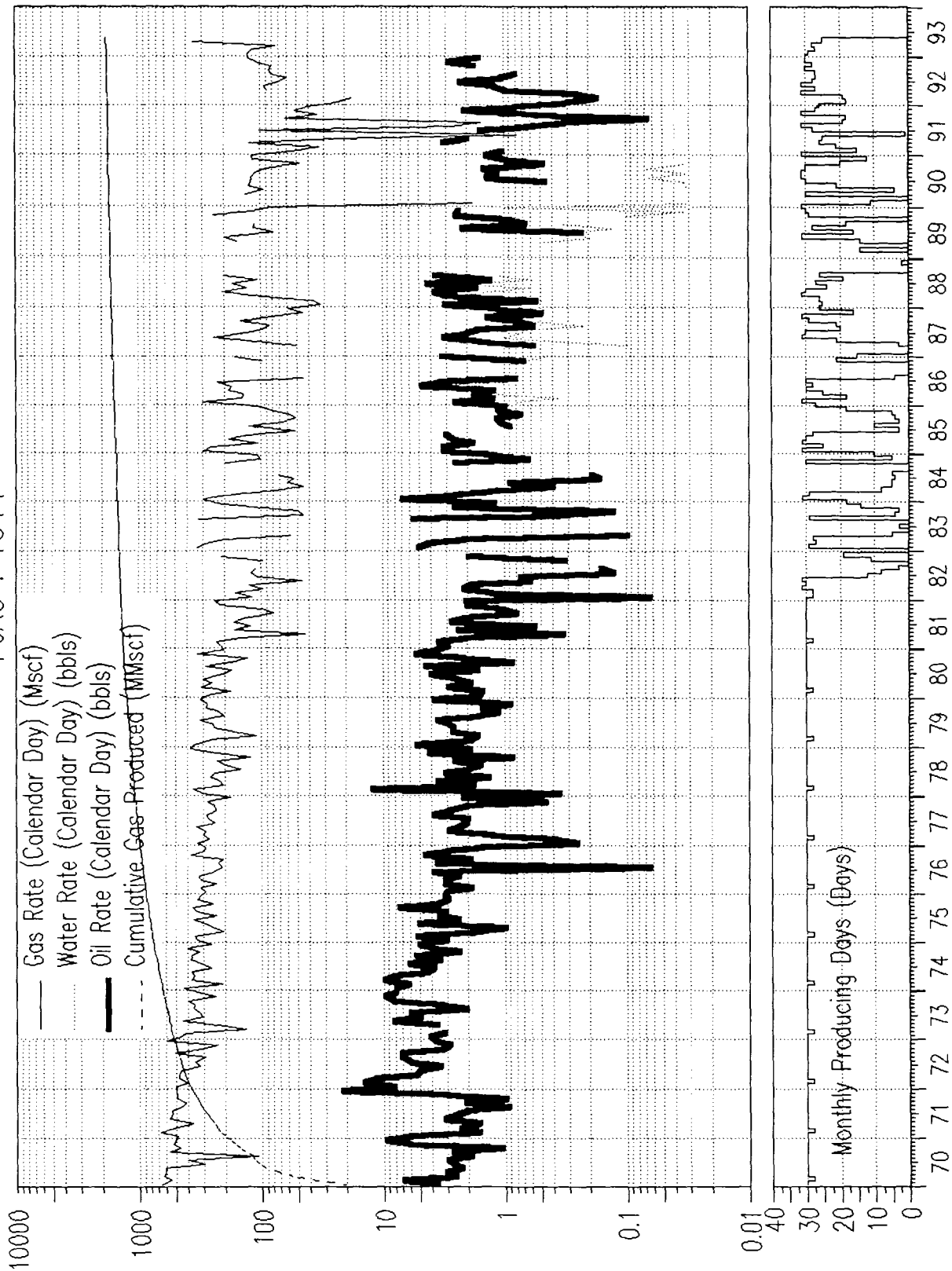
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JICARILLA B 4

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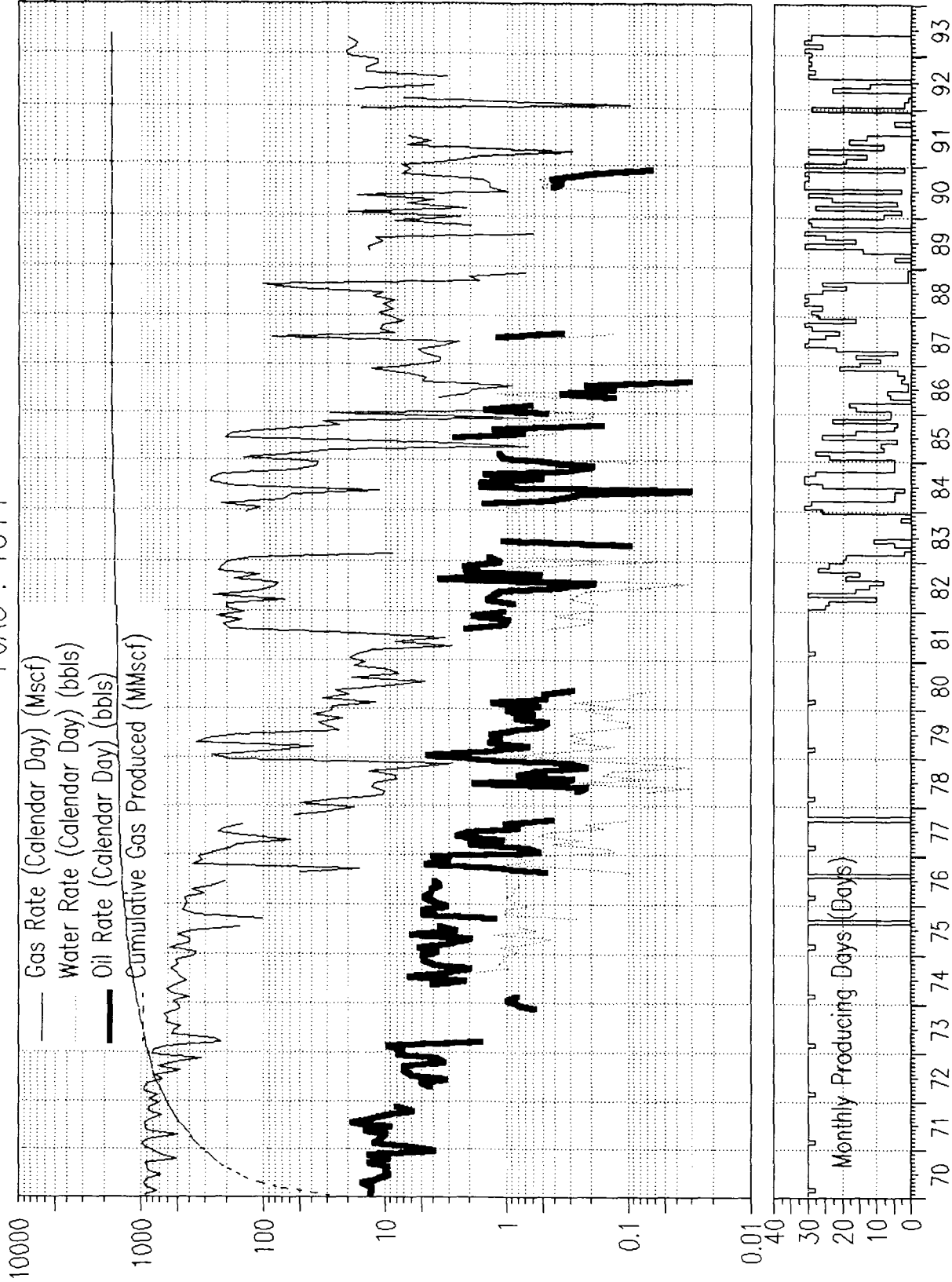
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JICARILLA B 4

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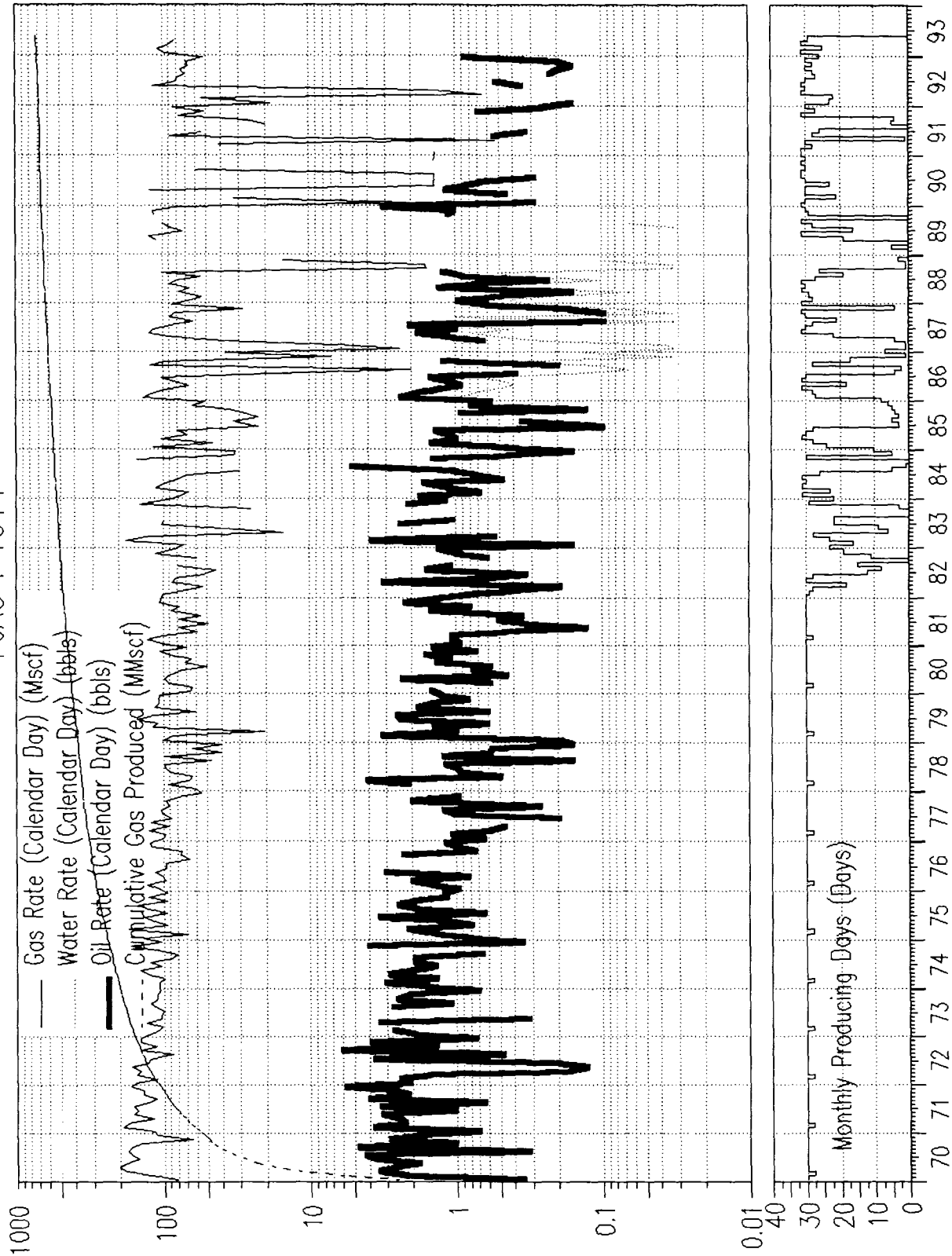
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JICARILLA B 7

WELL: 300390809600:DK

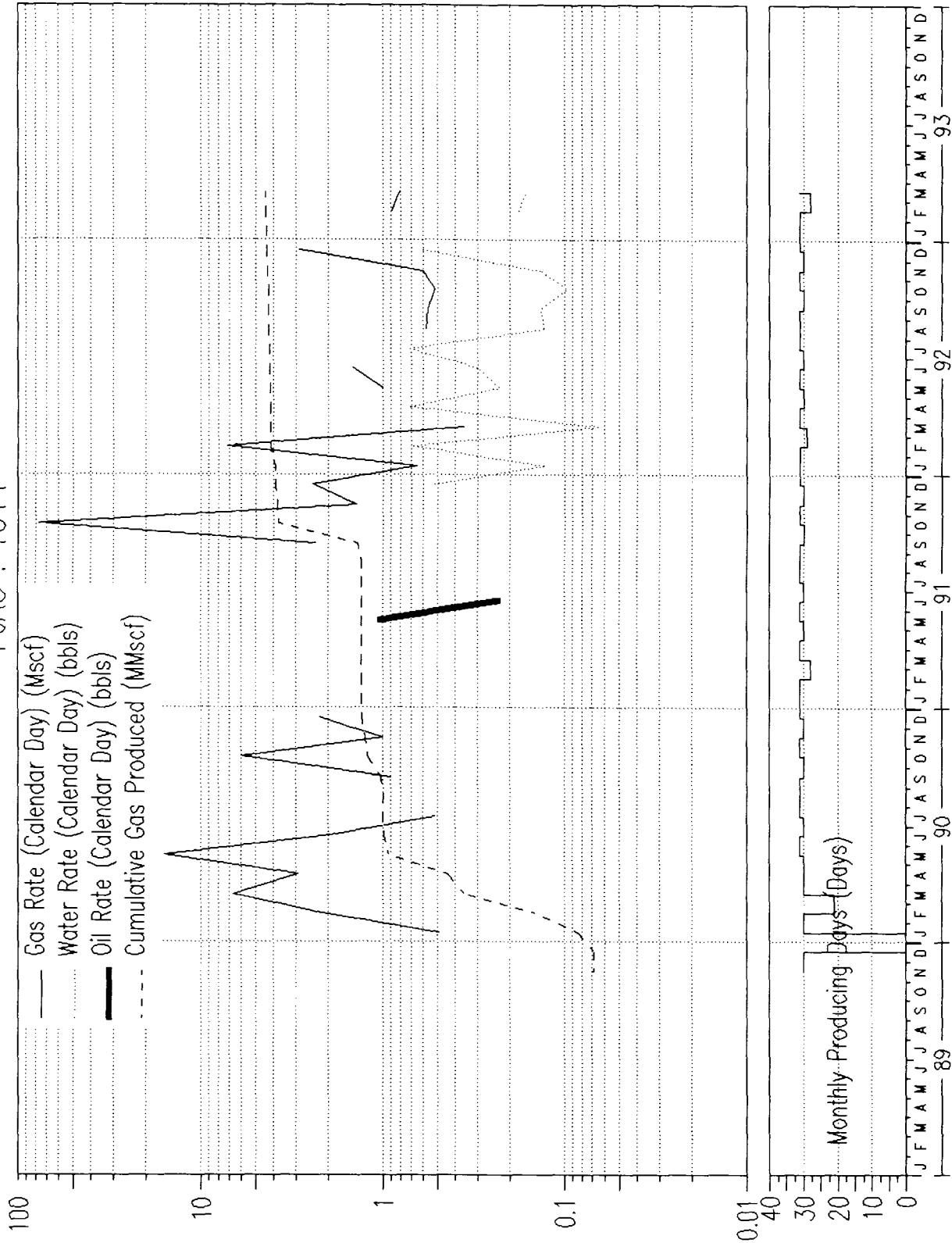
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JICARILLA B 7

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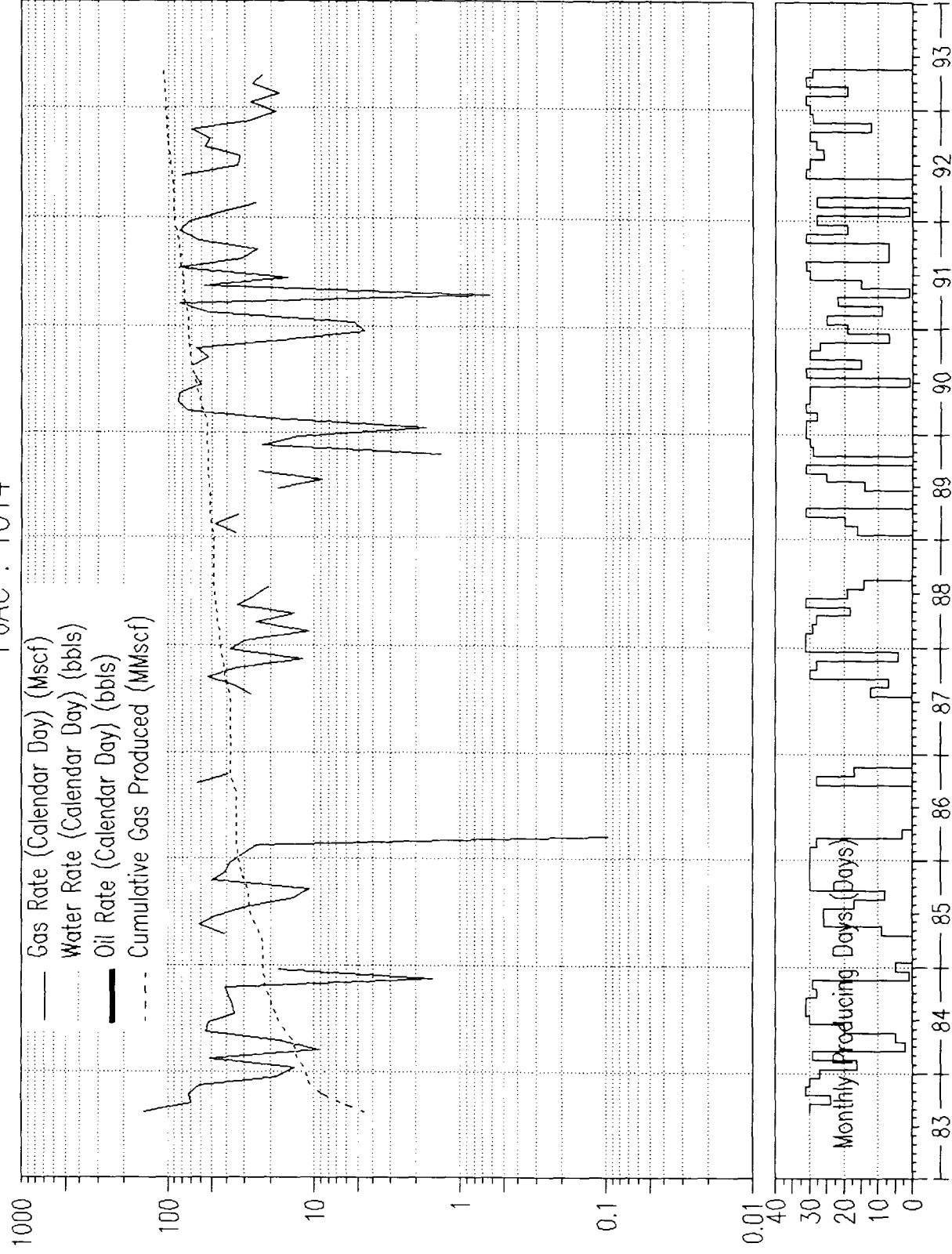
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JICARILLA B 7E

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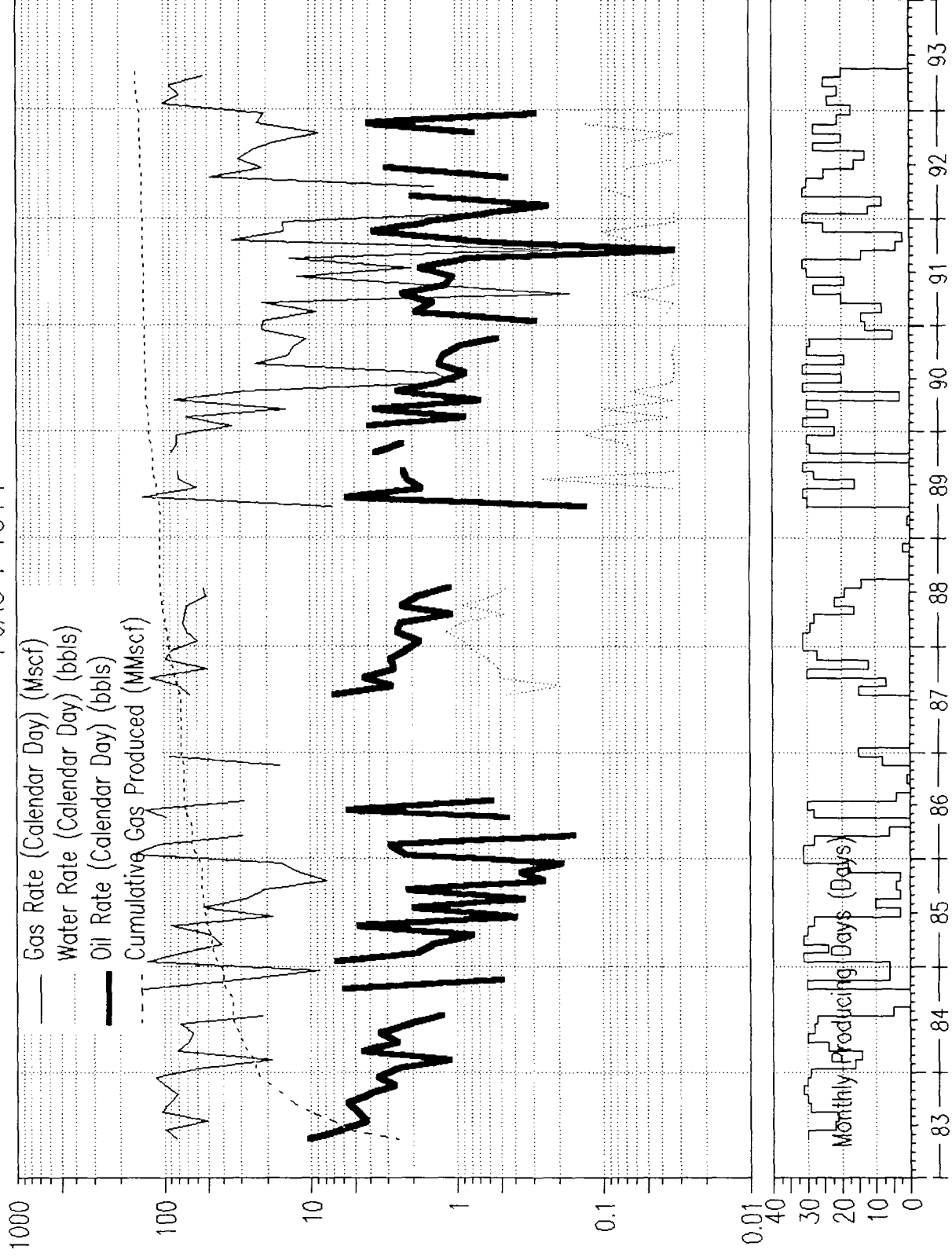
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JICARILLA B 7E

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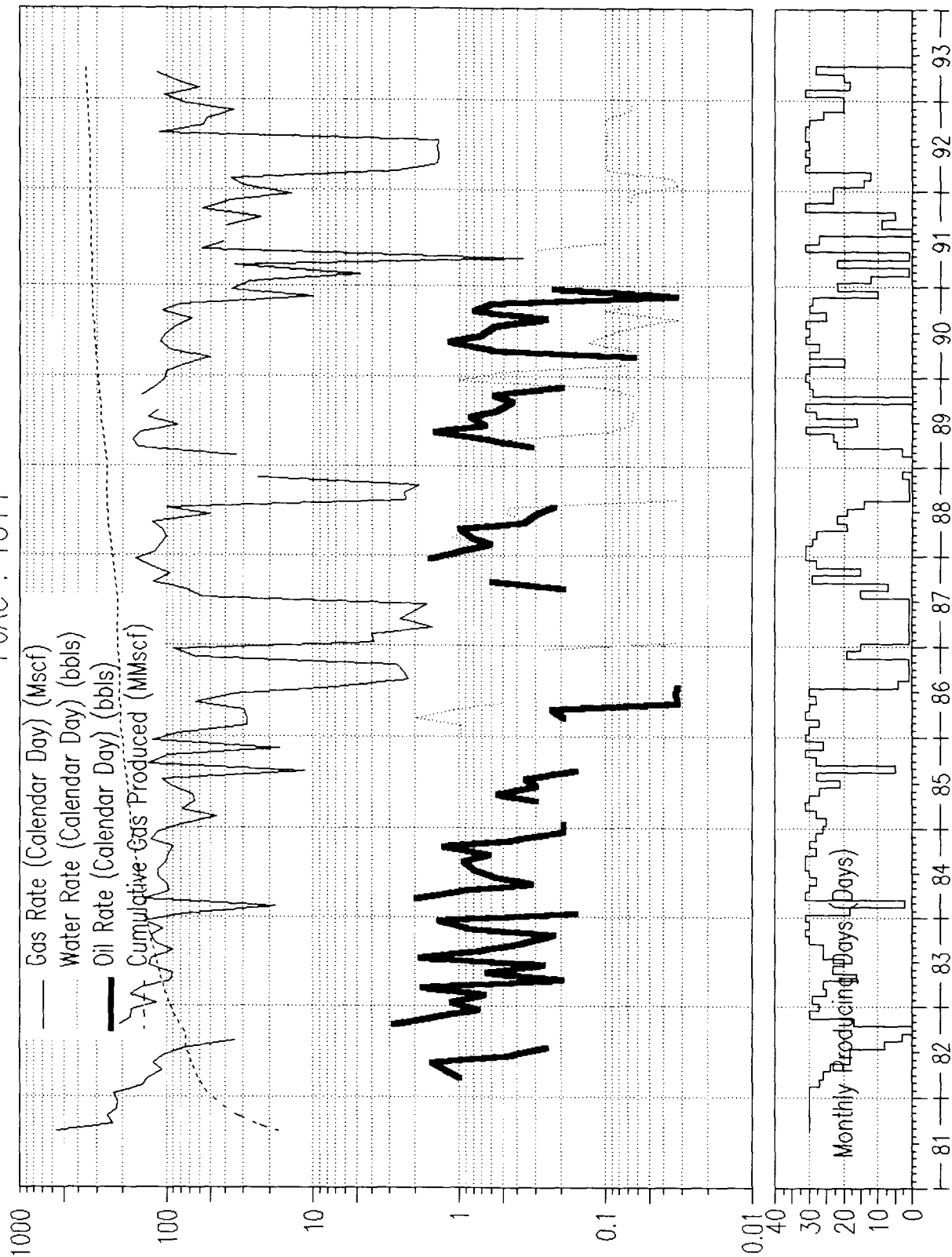
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JICARILLA B 8M

WELL: 300392230000:DK

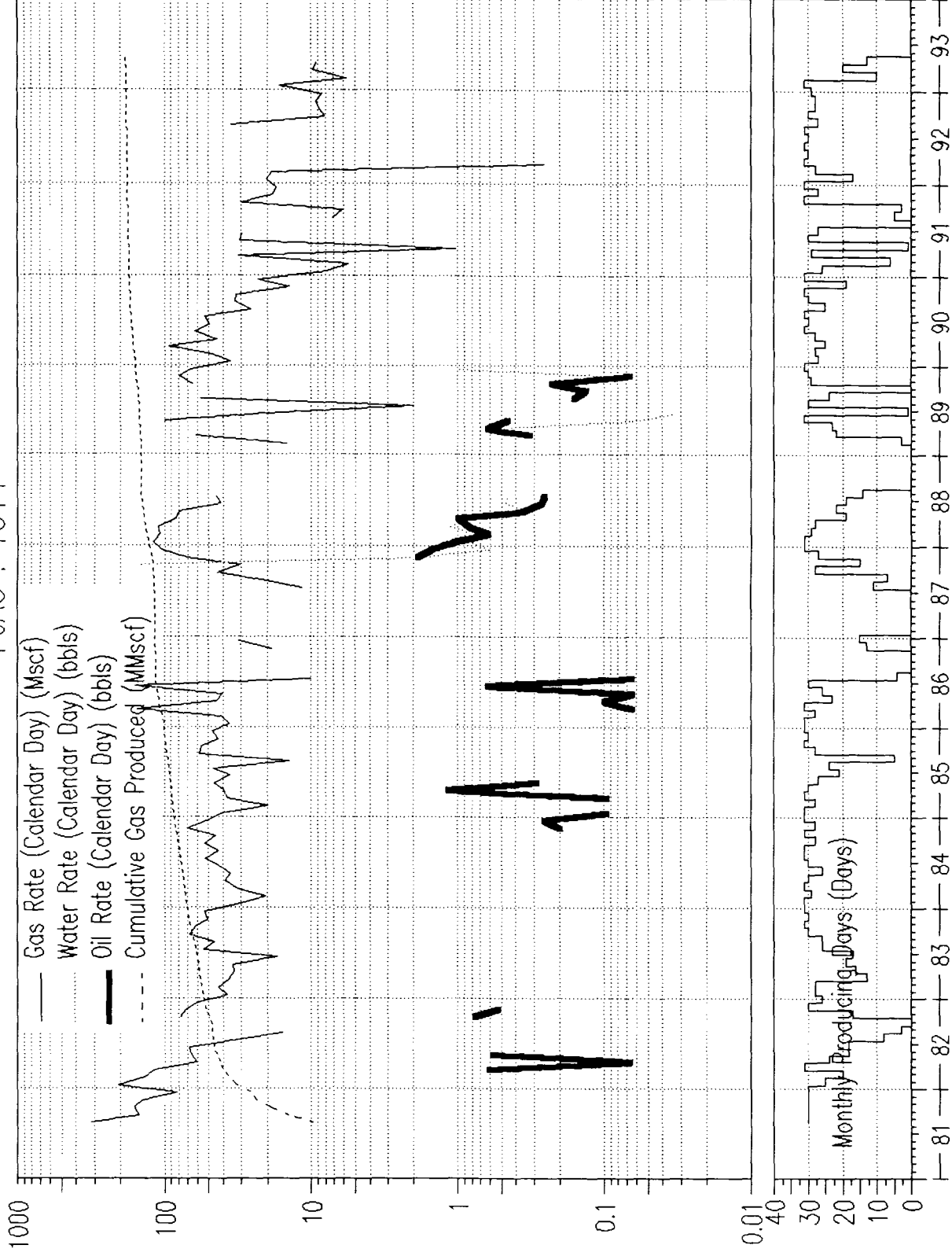
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JICARILLA B 8M

WELL: 300392230000:MV

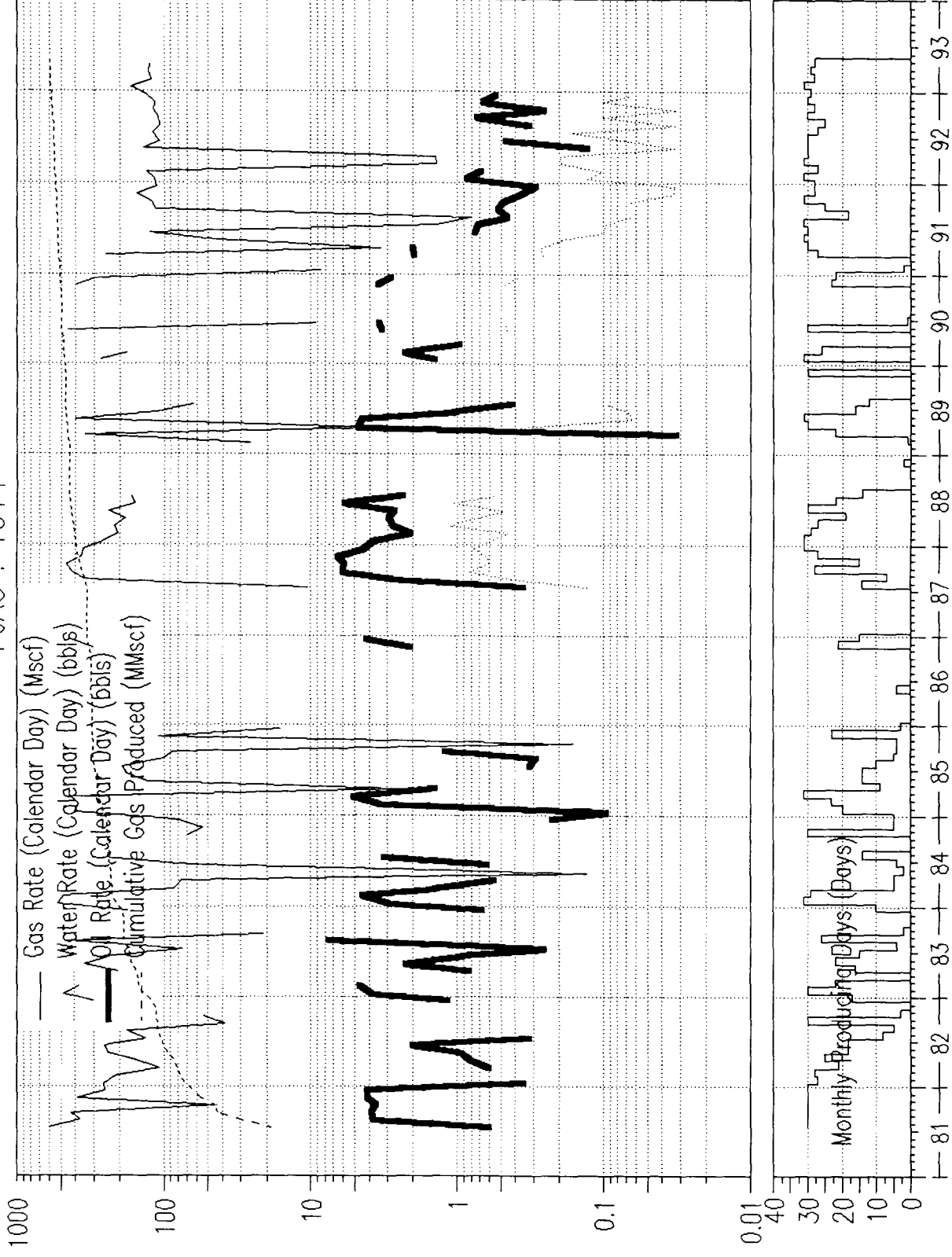
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JICARILLA C 2E

WELL: 300392231400:DK

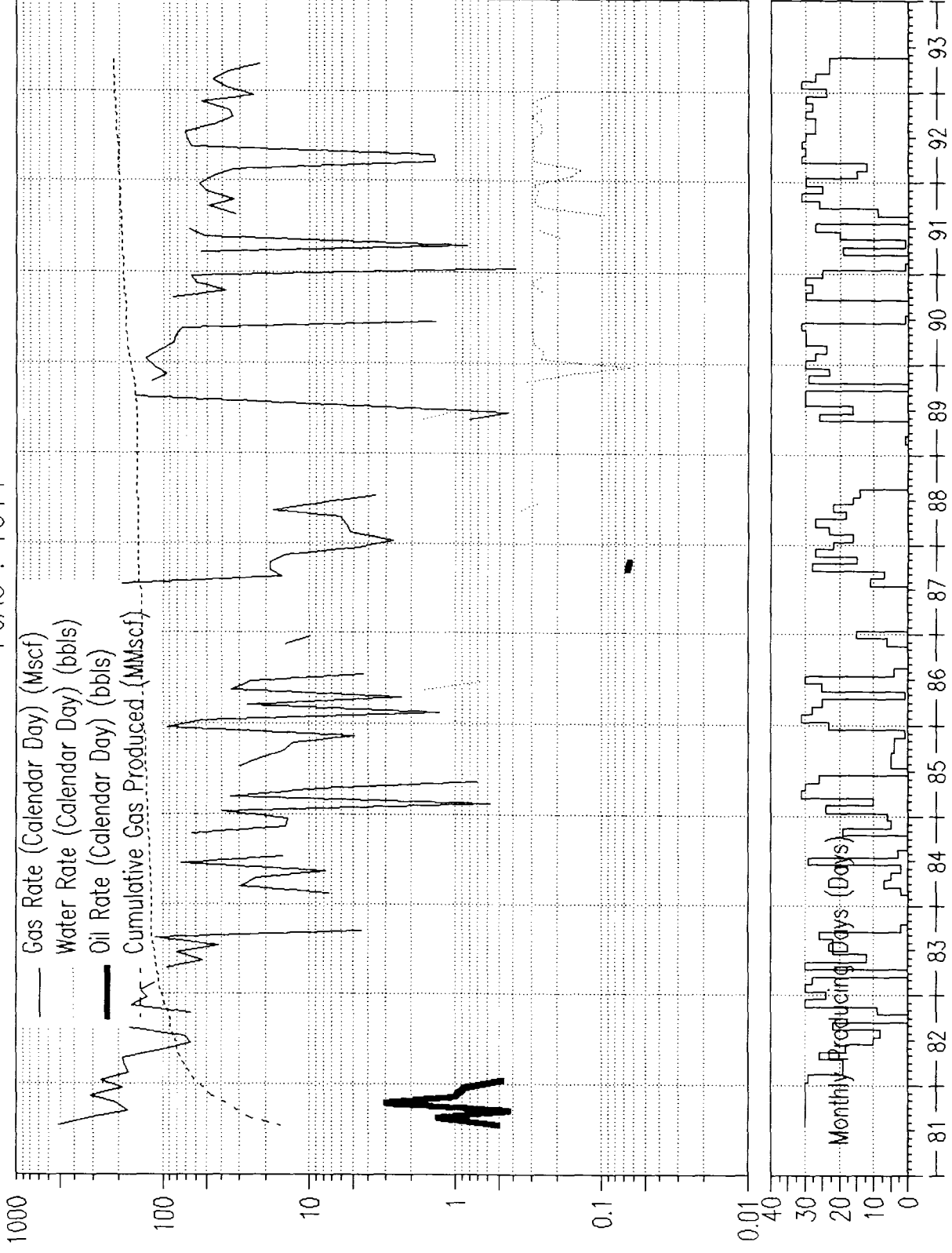
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JICARILLA C 2E

WELL: 300392231400:WV

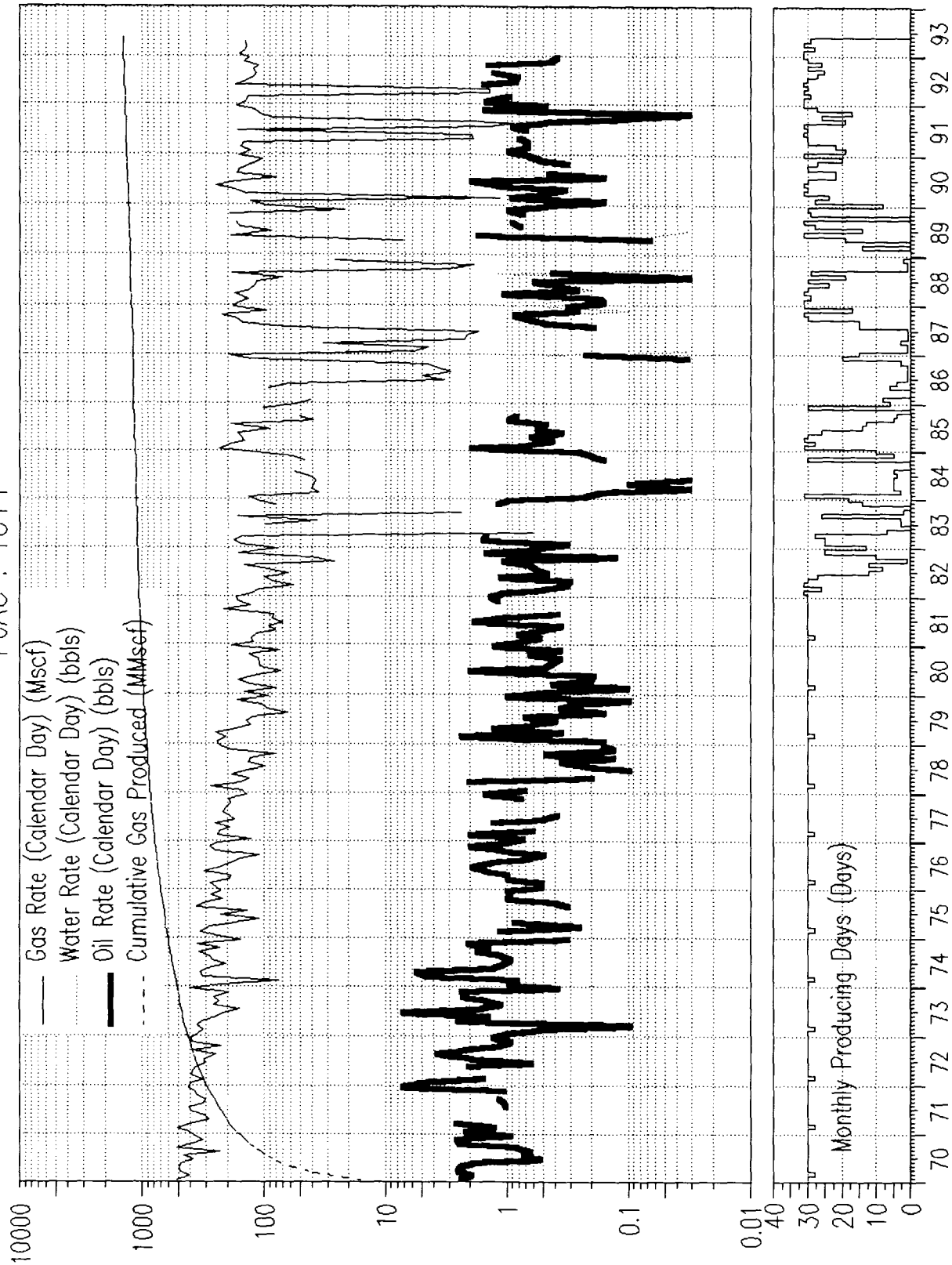
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JICARILLA C 3

WELL: 300390809800:DK

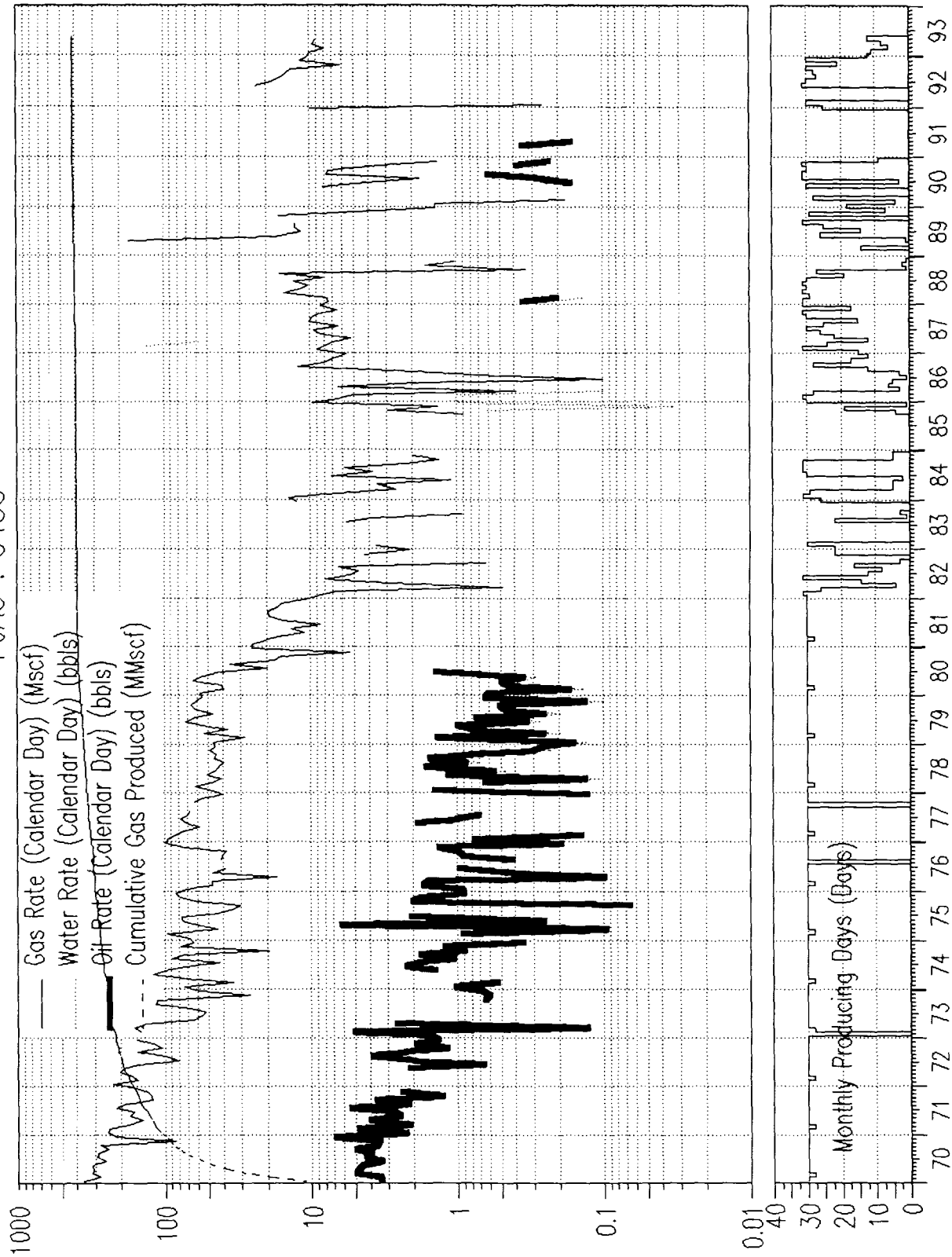
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JICARILLA C 3

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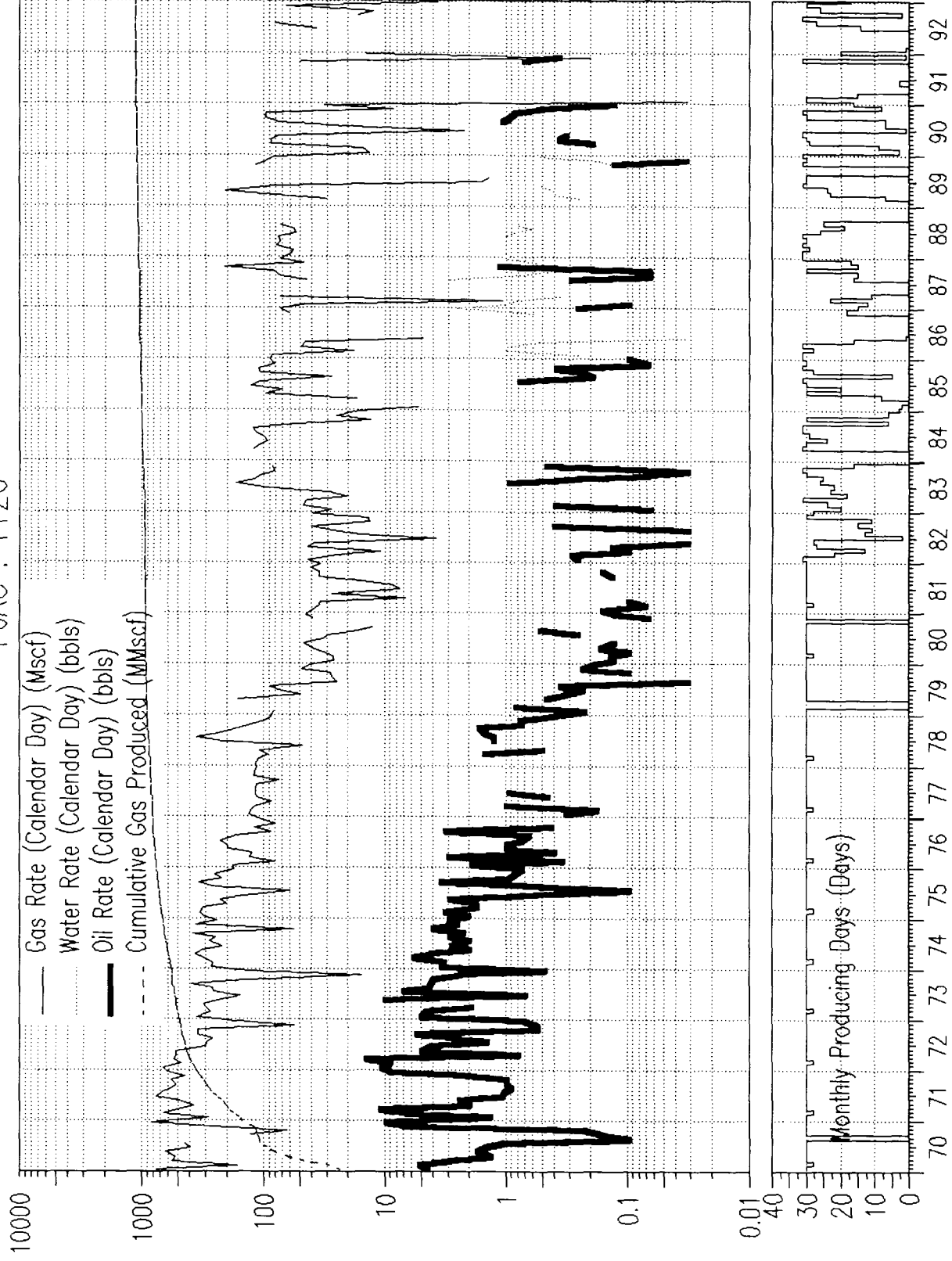
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JICARILLA C 6

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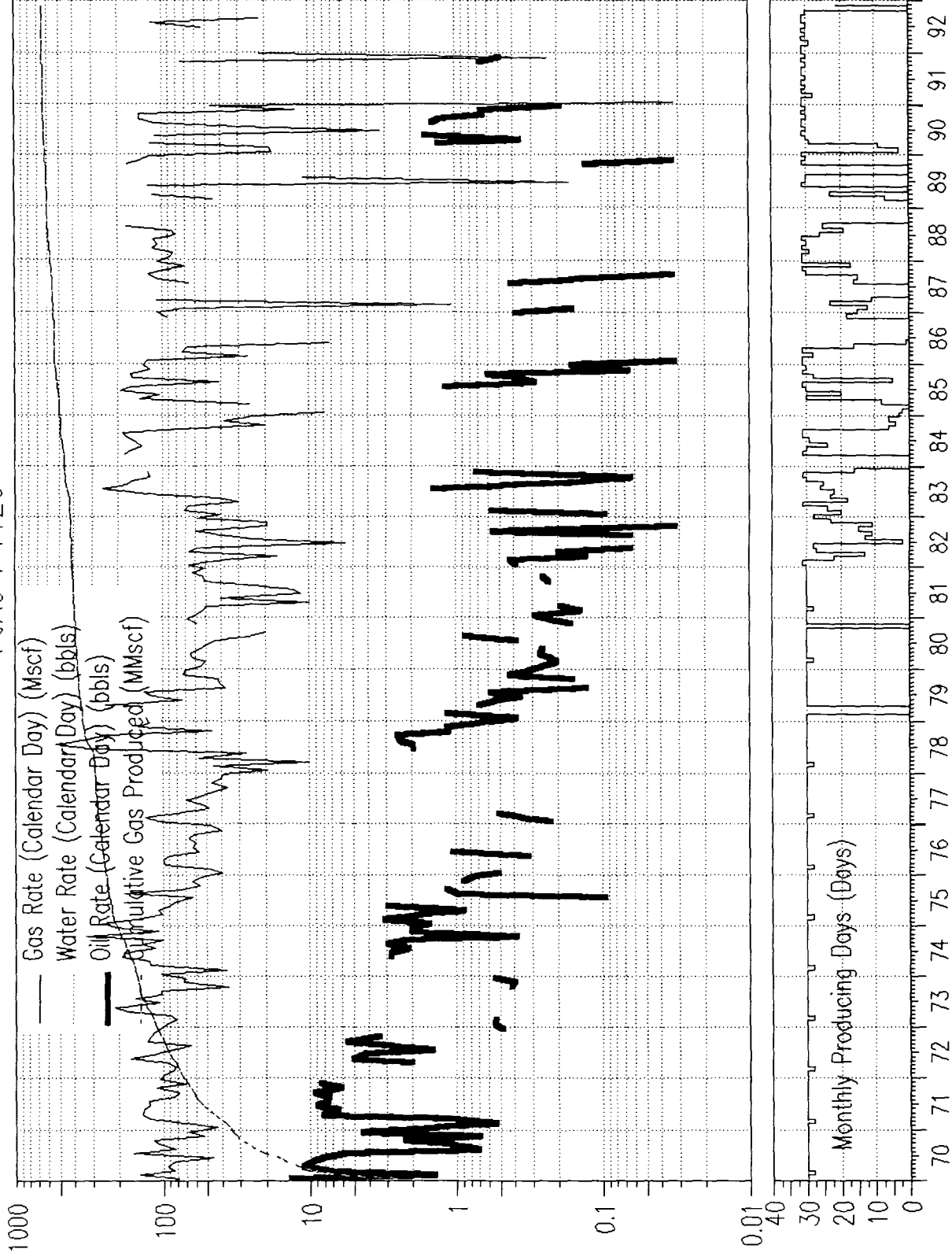
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JICARILLA C 6

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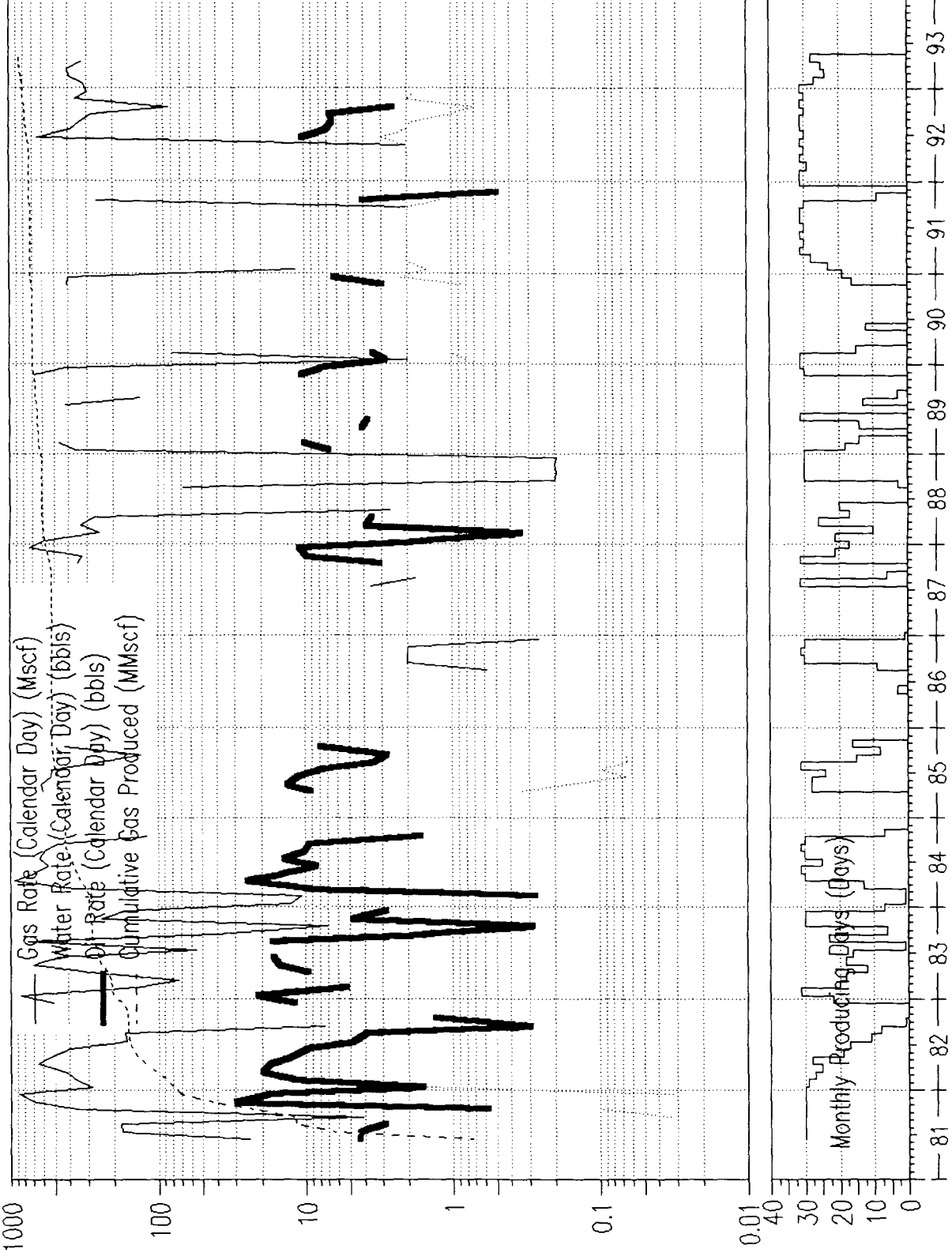
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JICARILLA APACHE 102 8E

WELL: 300392245400:DK

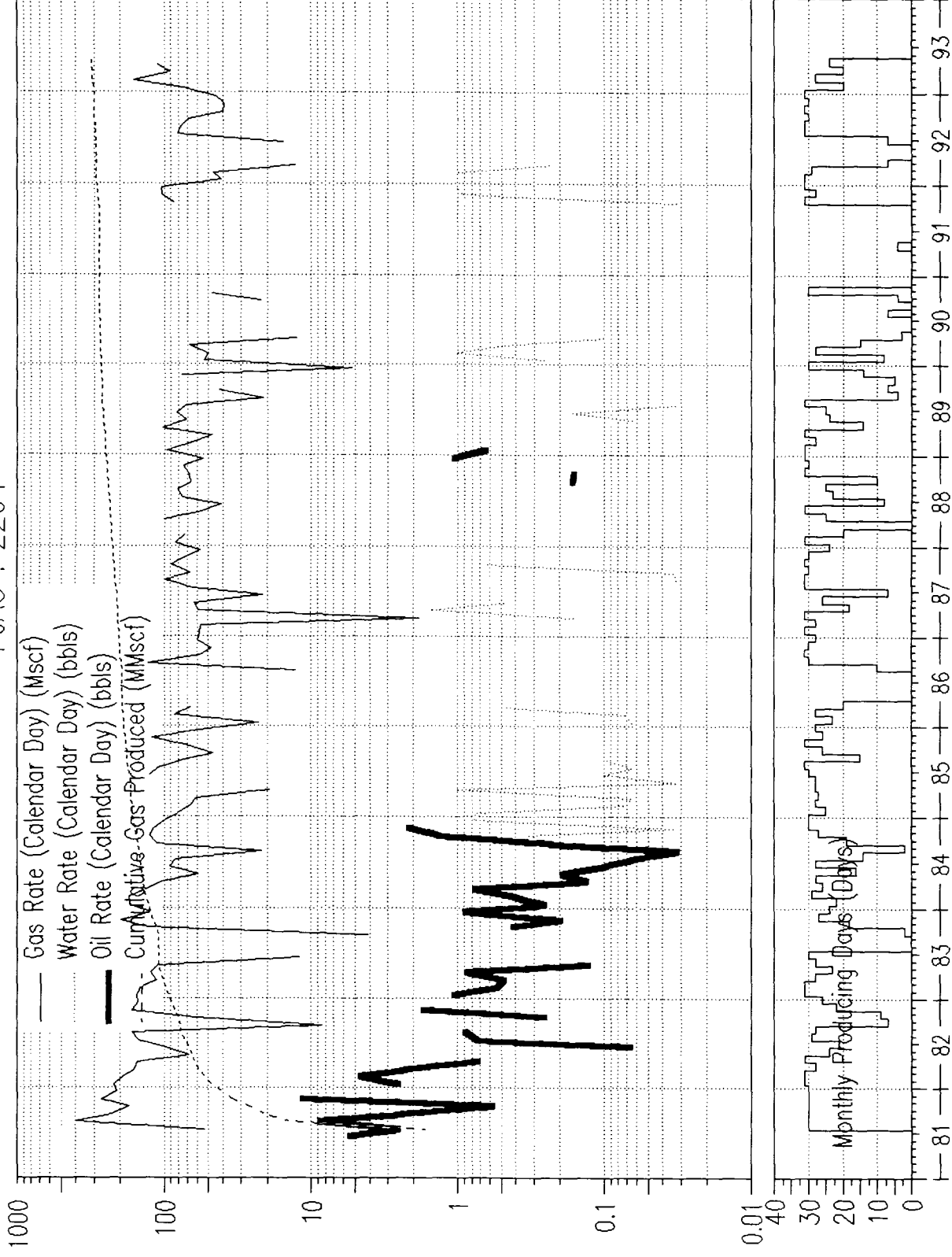
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JICARILLA APACHE 102 8E

WELL: 300392245400:MV

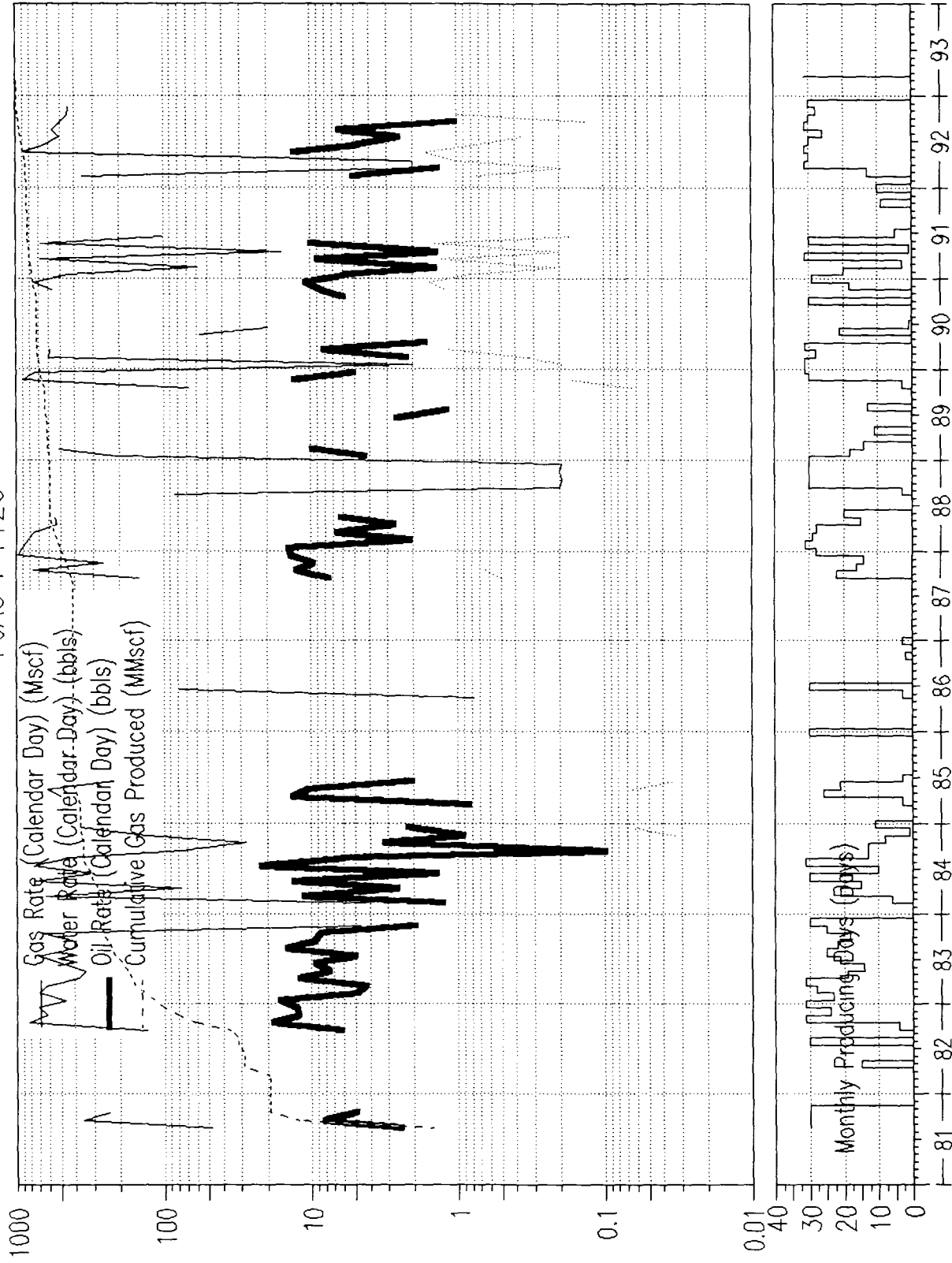
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JICARILLA APACHE 102 10E

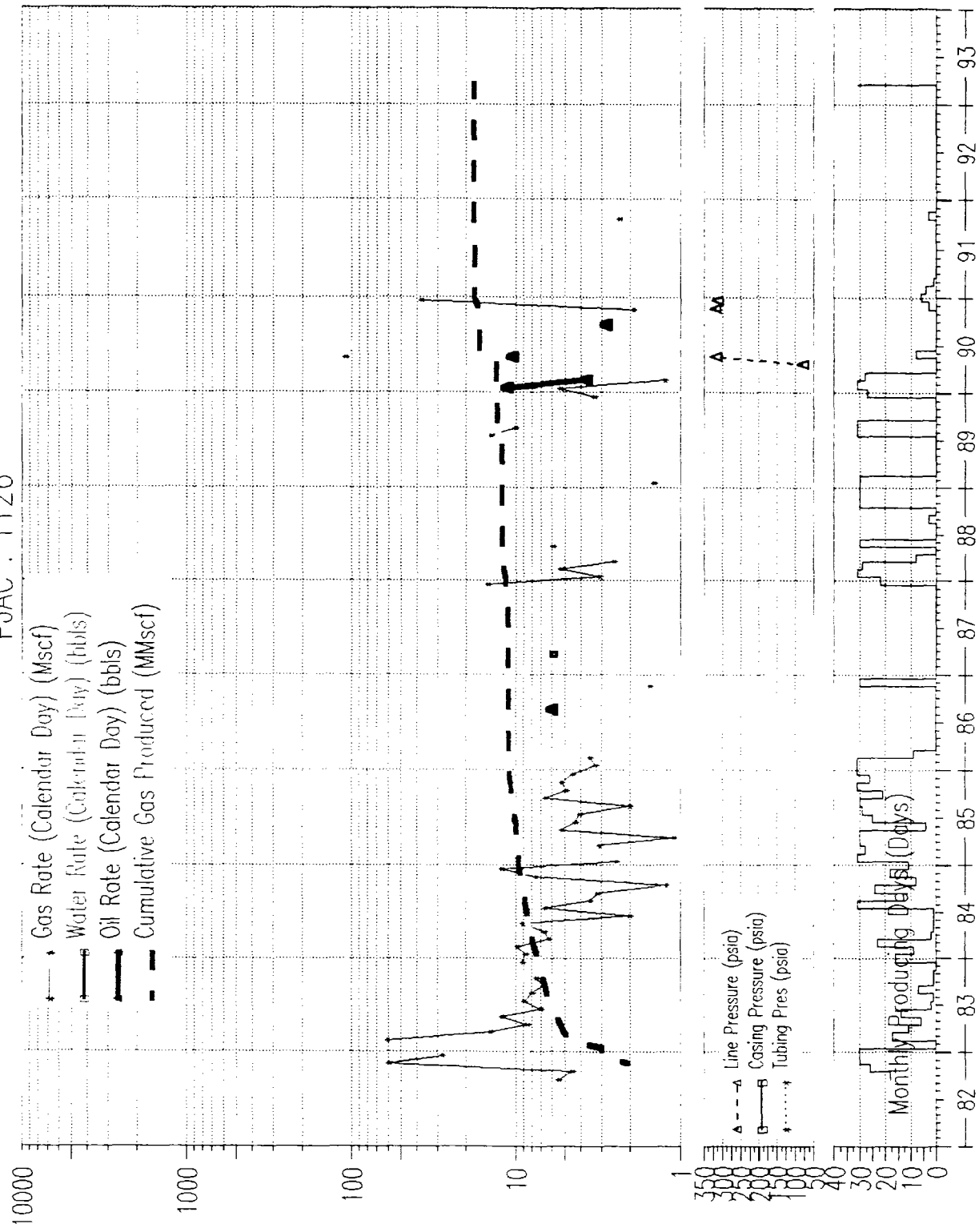
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PJAC : 1126



JICARILLA APACHE 102 10E
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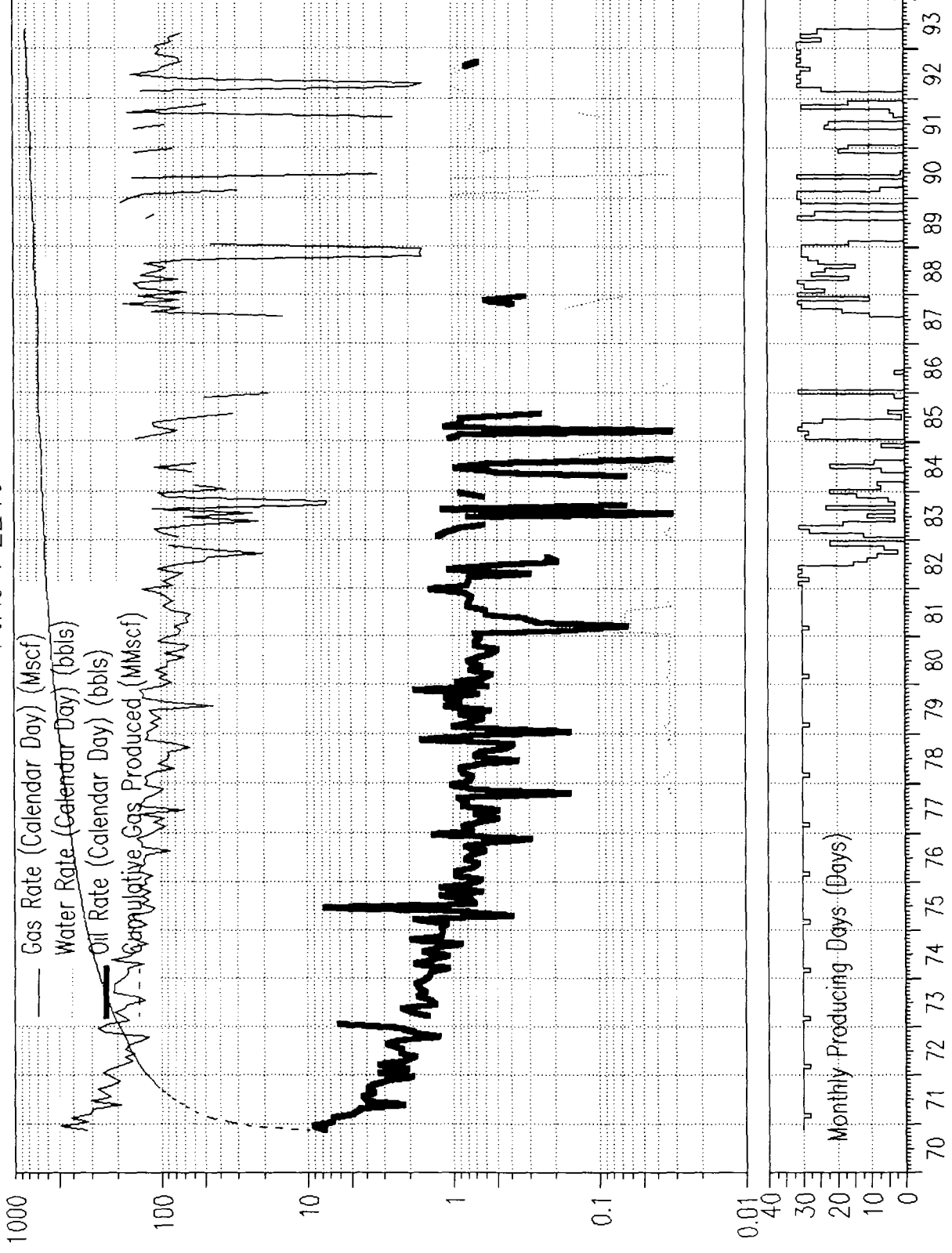
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JICARILLA CONTRACT 146 22

WELL: 300392033500:DK

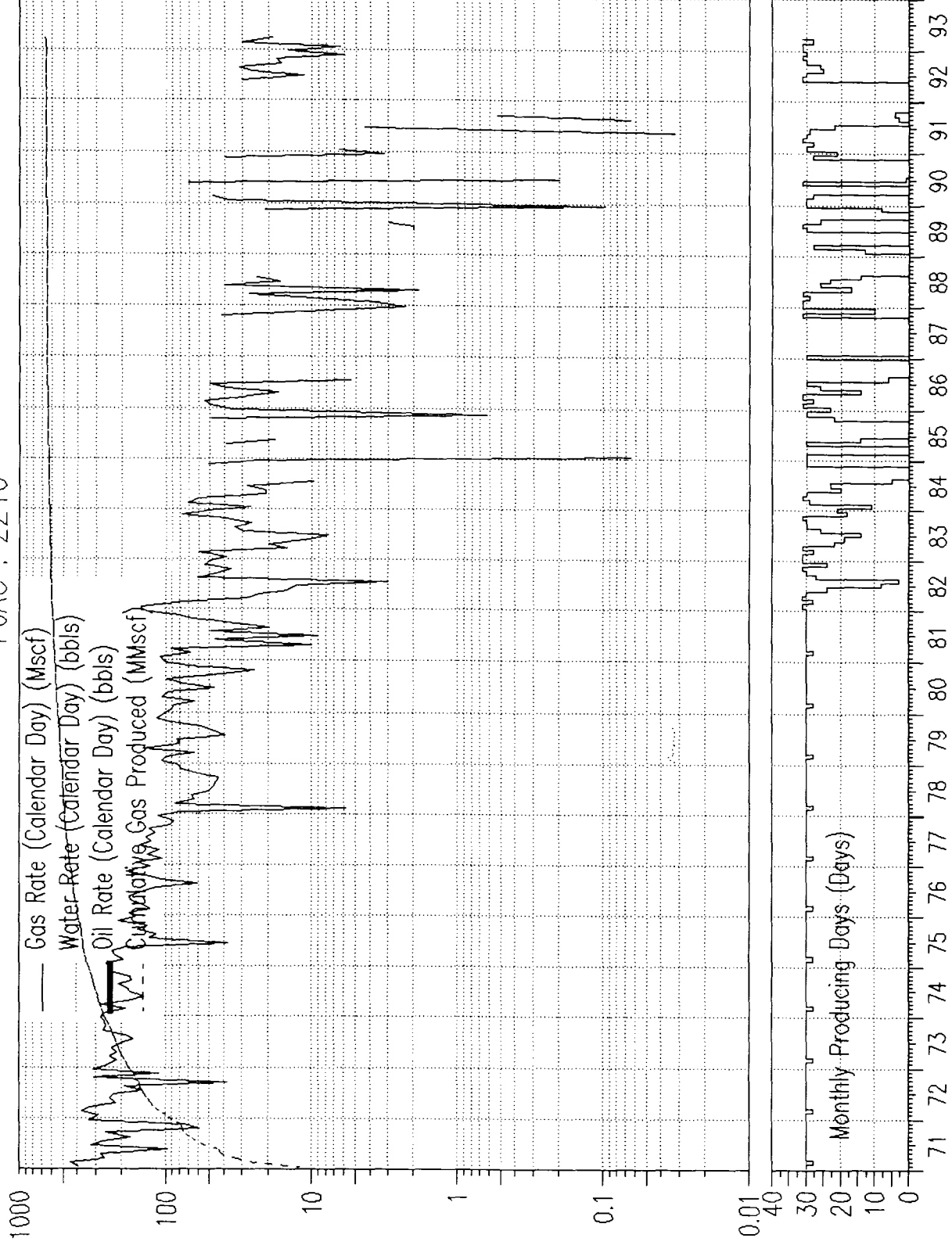
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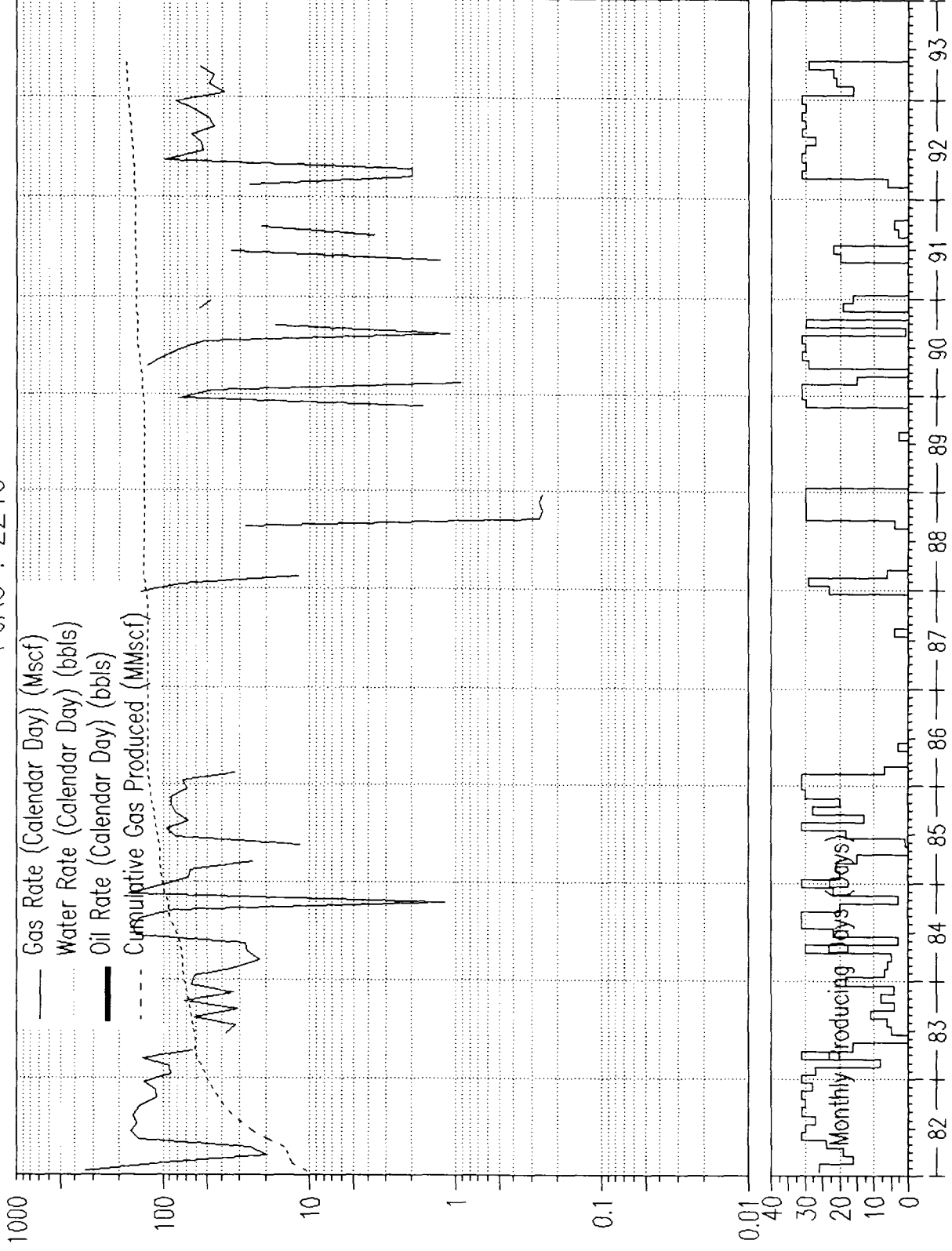


JICARILLA CONTRACT 146 22

WELL: 300392033500:PC

PJAC : 2246

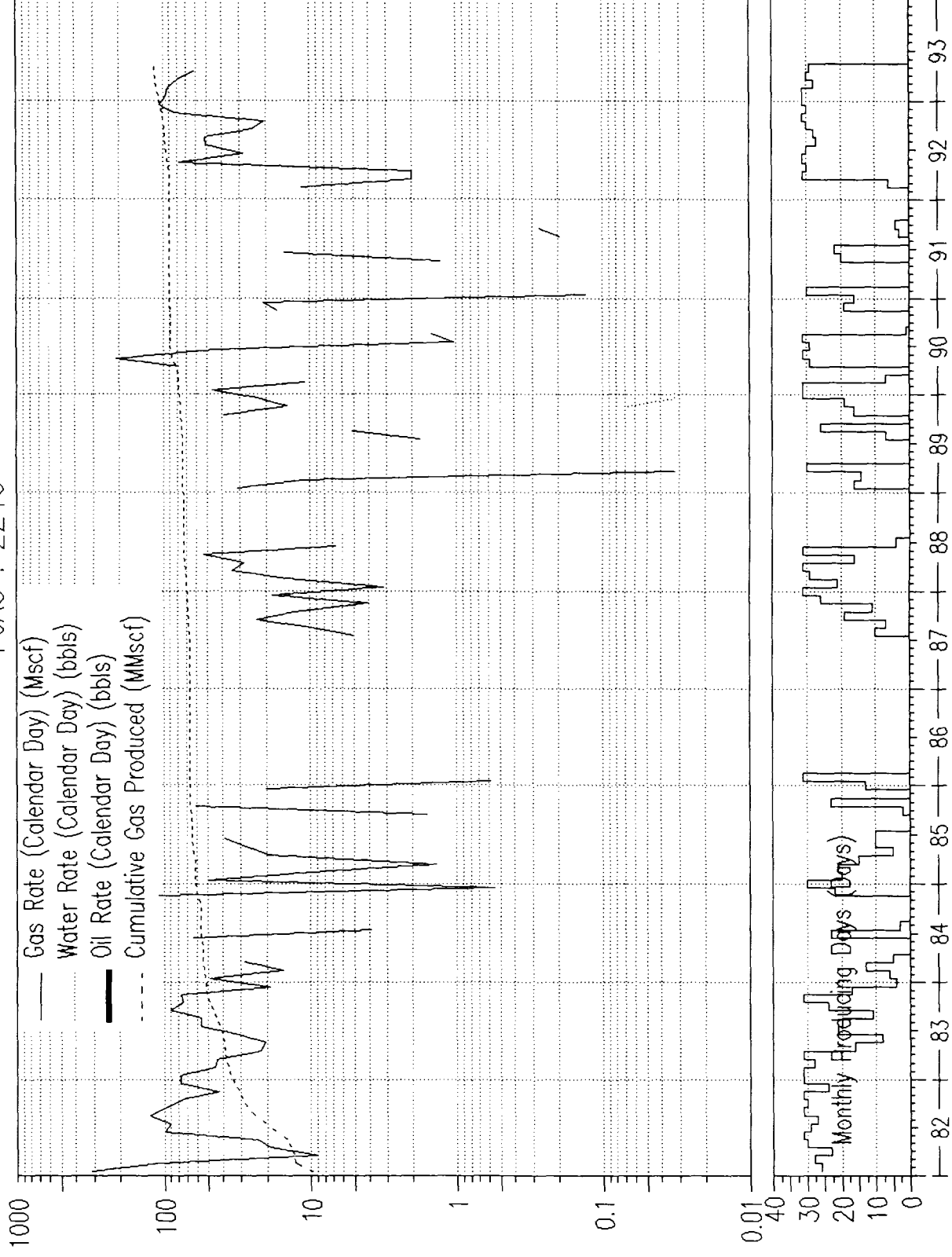




JICARILLA CONTRACT 146 29

WELL: 300392248000:PC

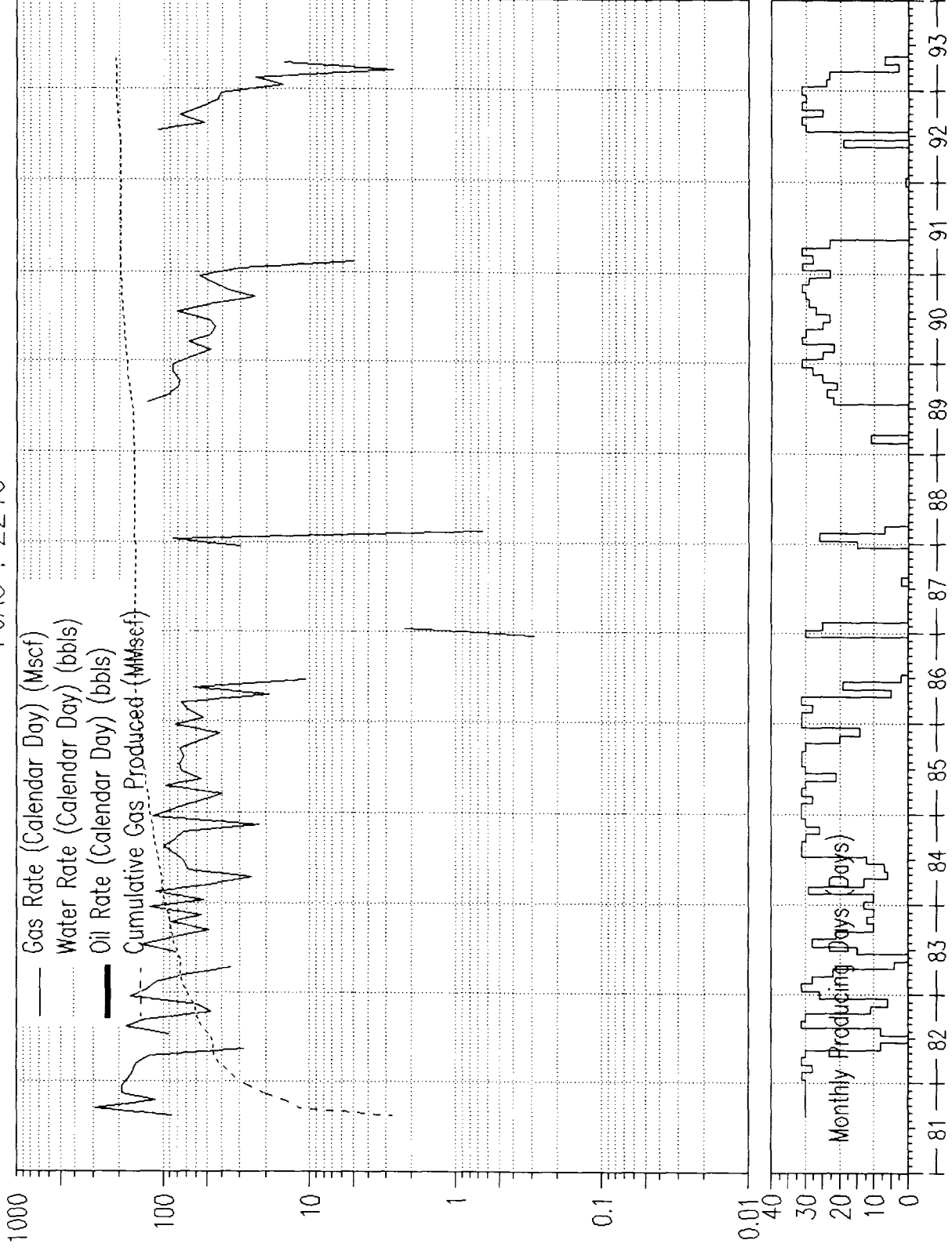
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JICARILLA CONTRACT 146 32

WELL: 300392248500:CK

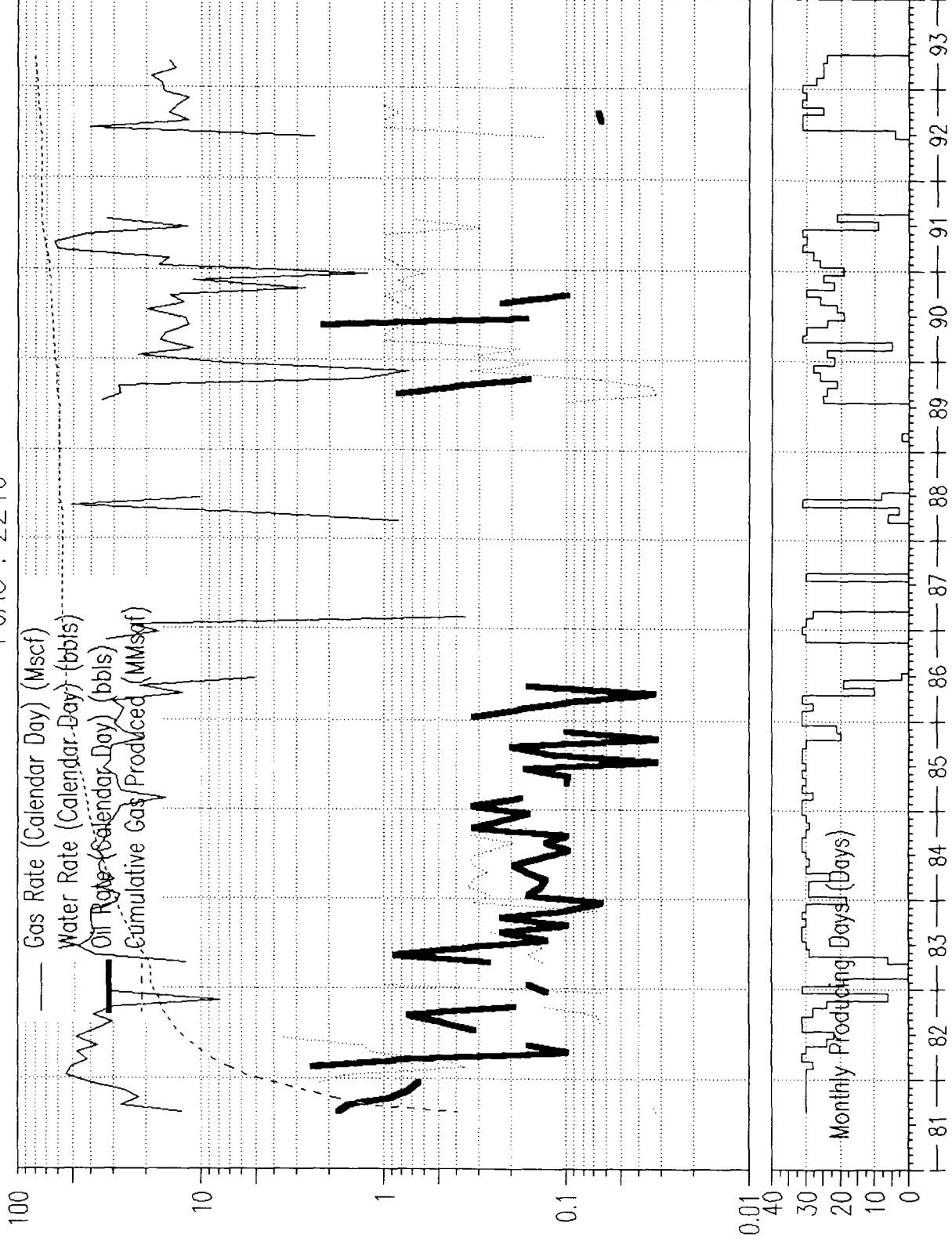
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JICARILLA CONTRACT 146 32

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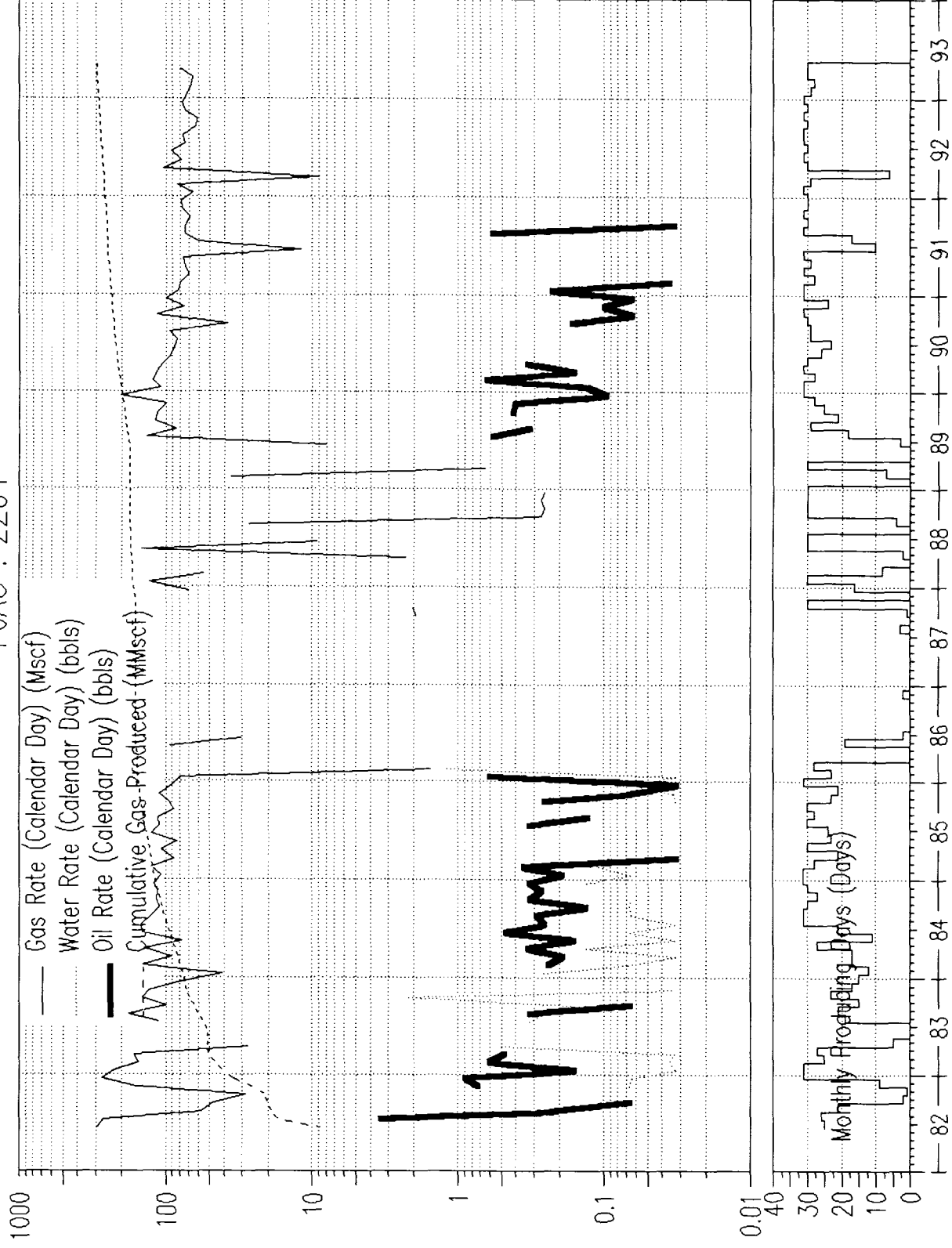
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JICARILLA CONTRACT 146 36

WELL: 300392248600:CK

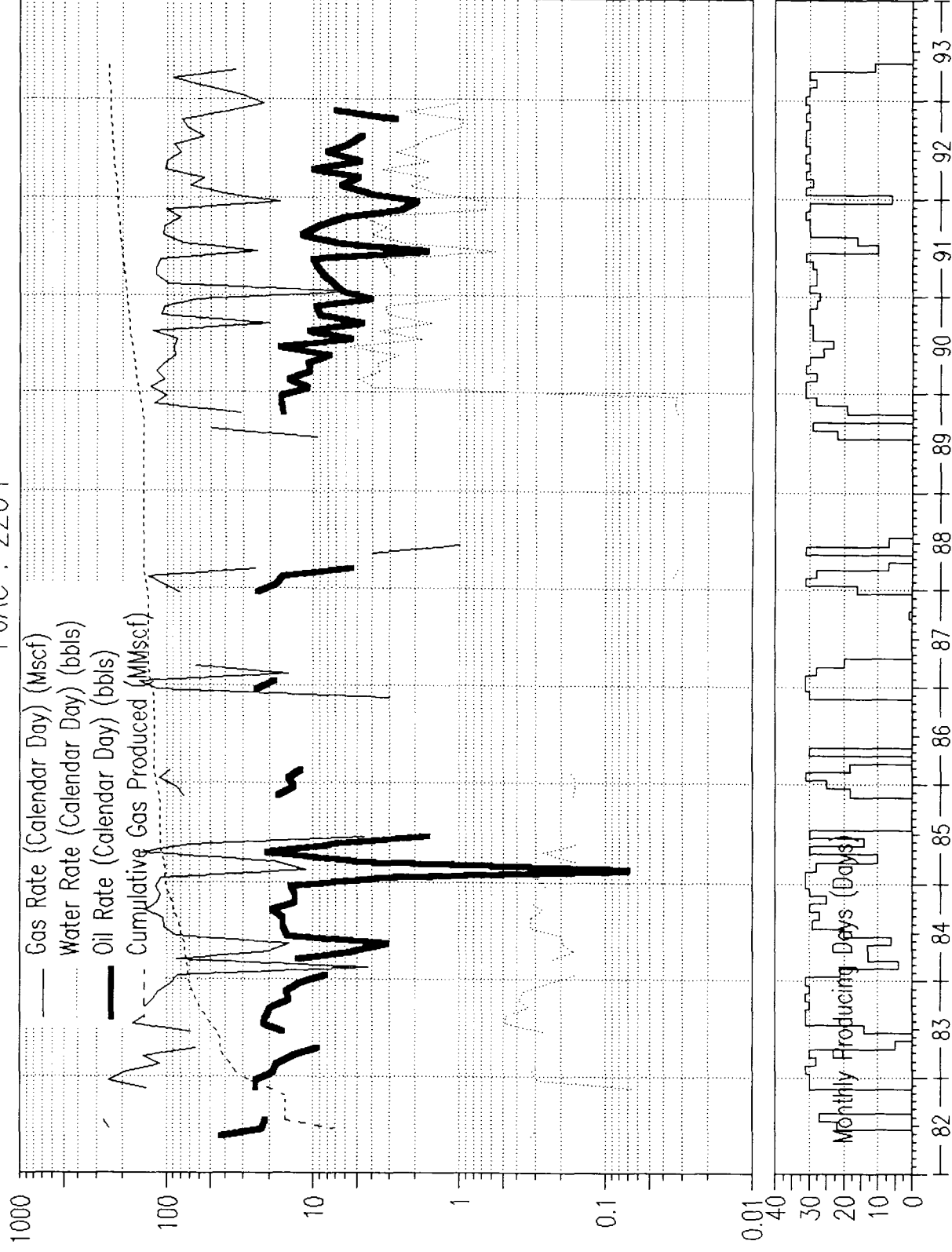
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JICARILLA CONTRACT 146 36

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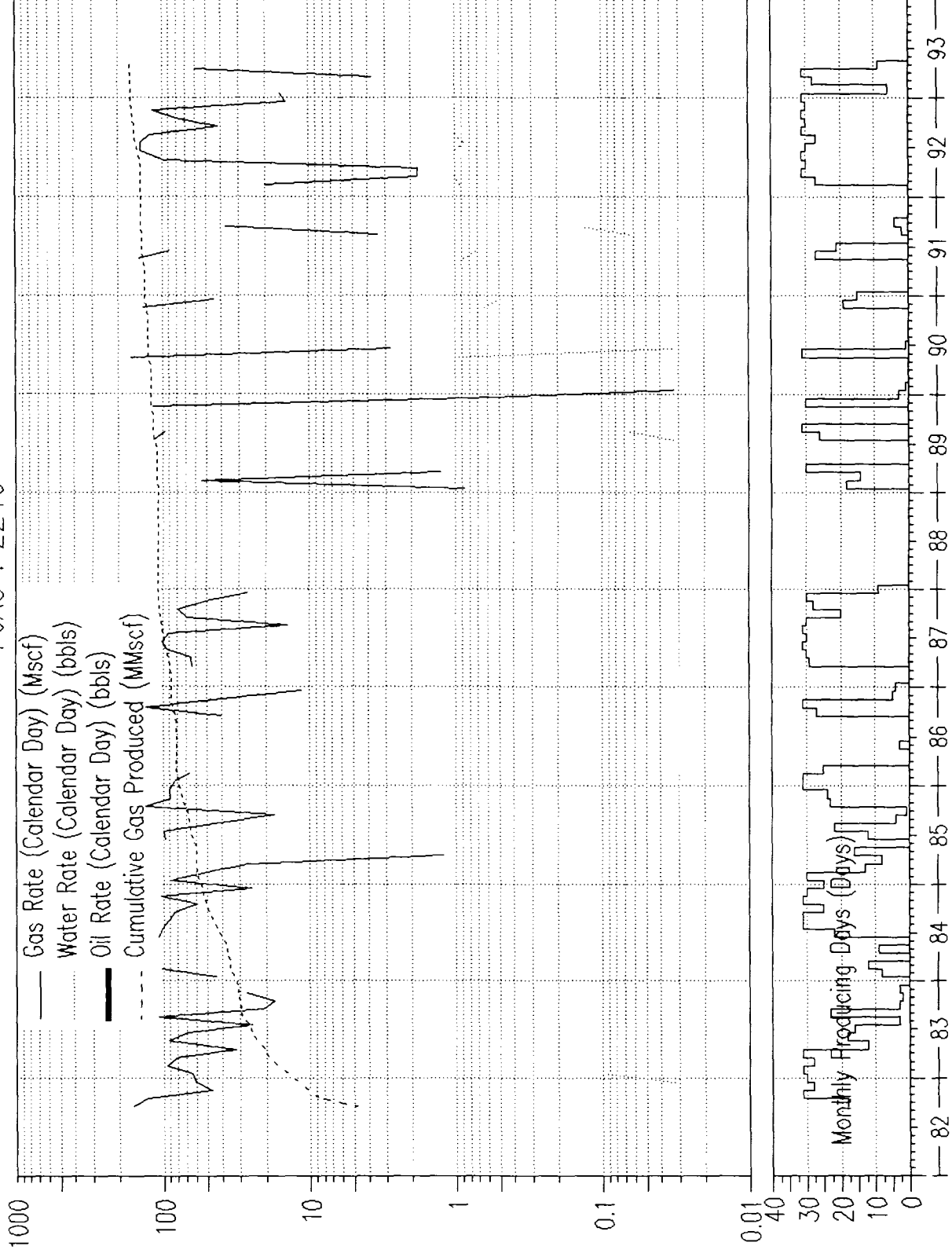
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JICARILLA CONTRACT 146 39

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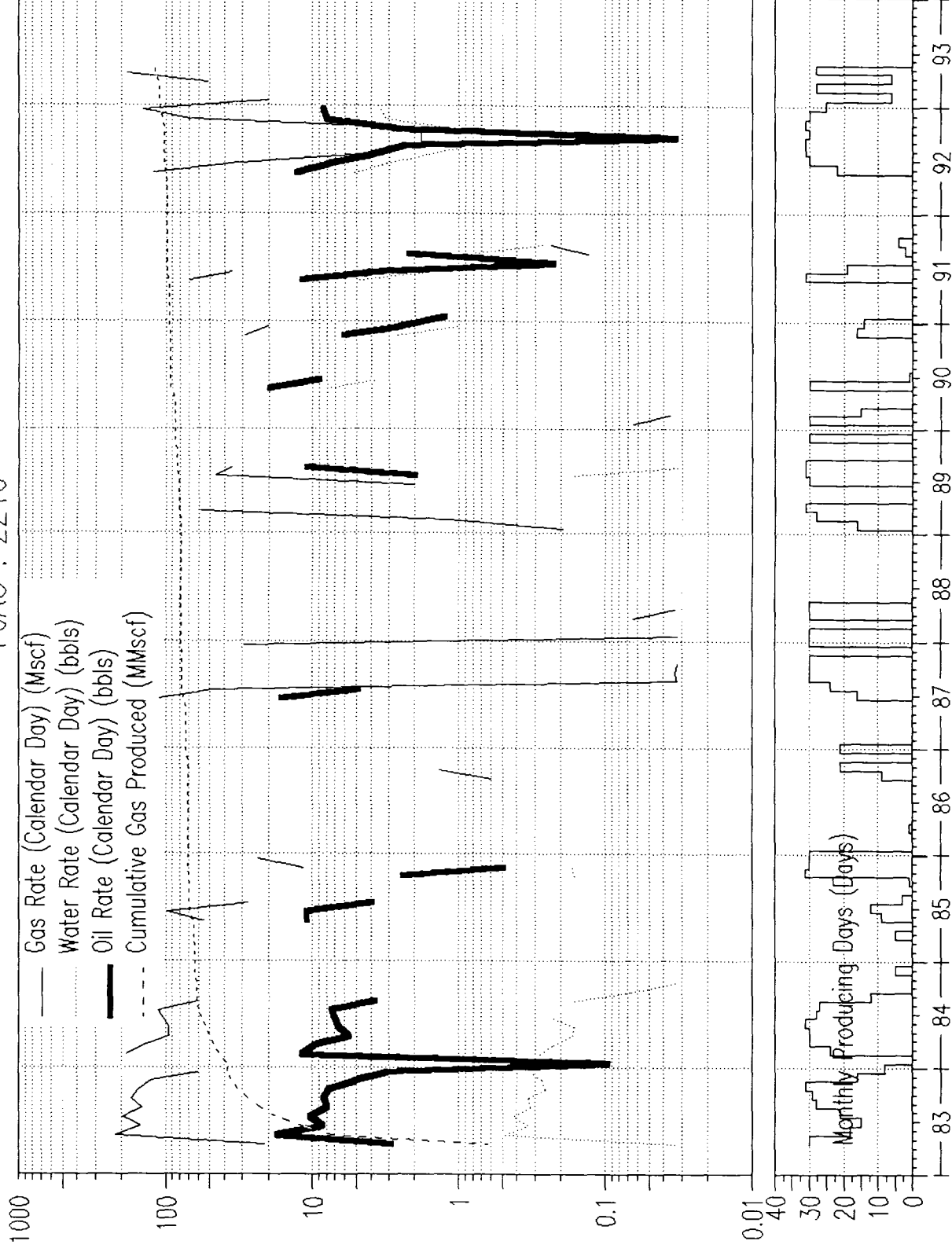
PJAC : 2246



JICARILLA CONTRACT 146 39

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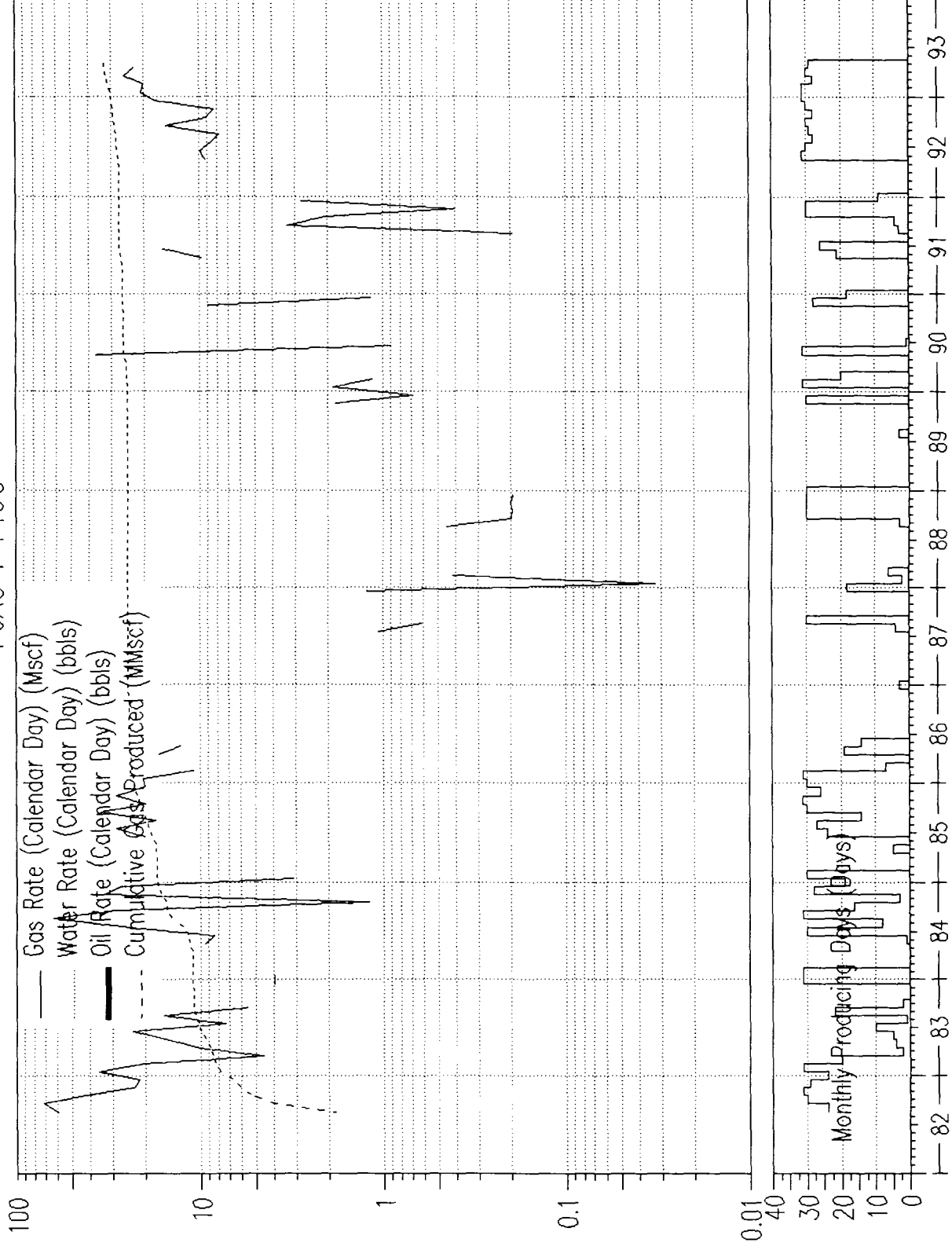
PJAC : 2246



JICARILLA CONTRACT 148 20

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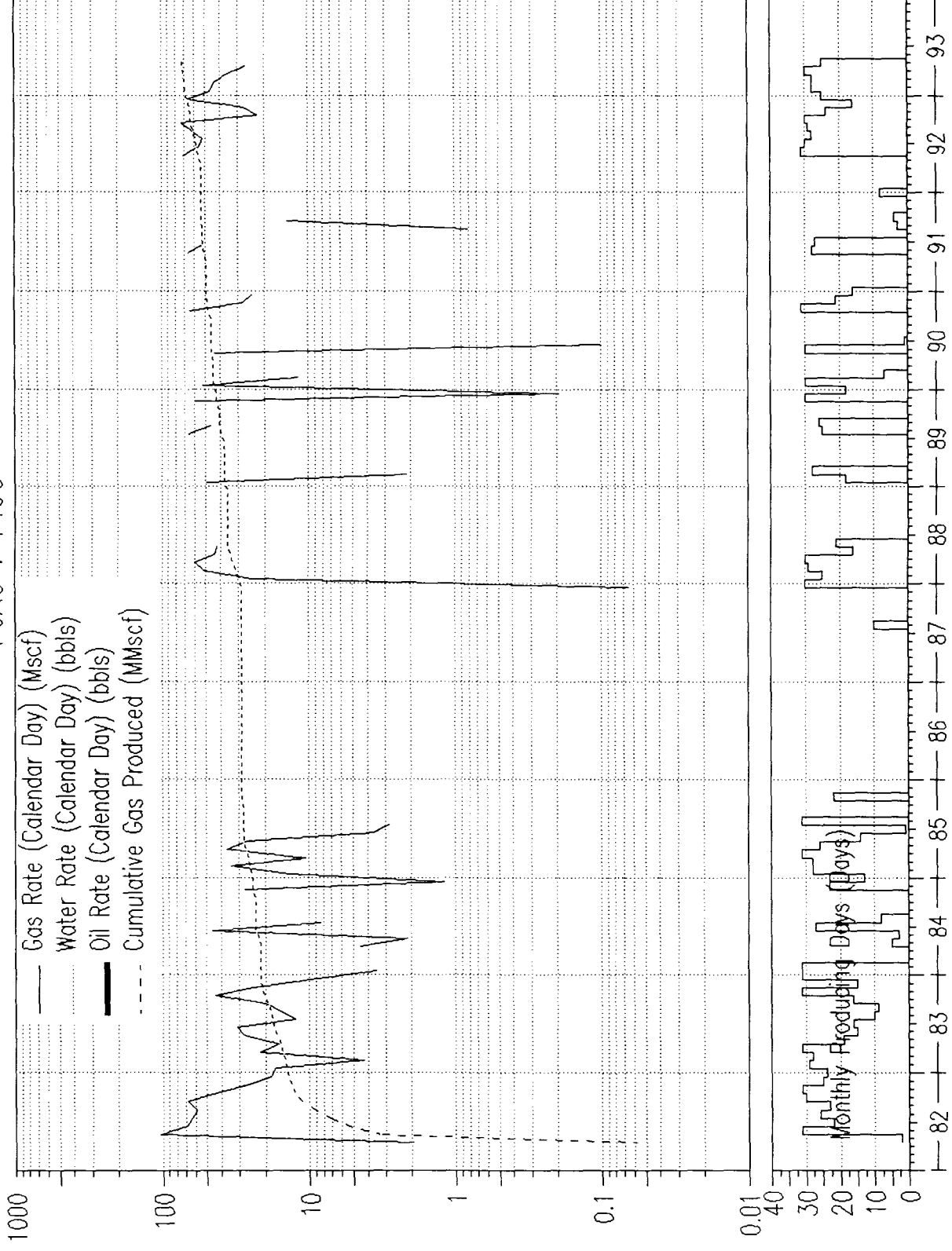
PJAC : 1490



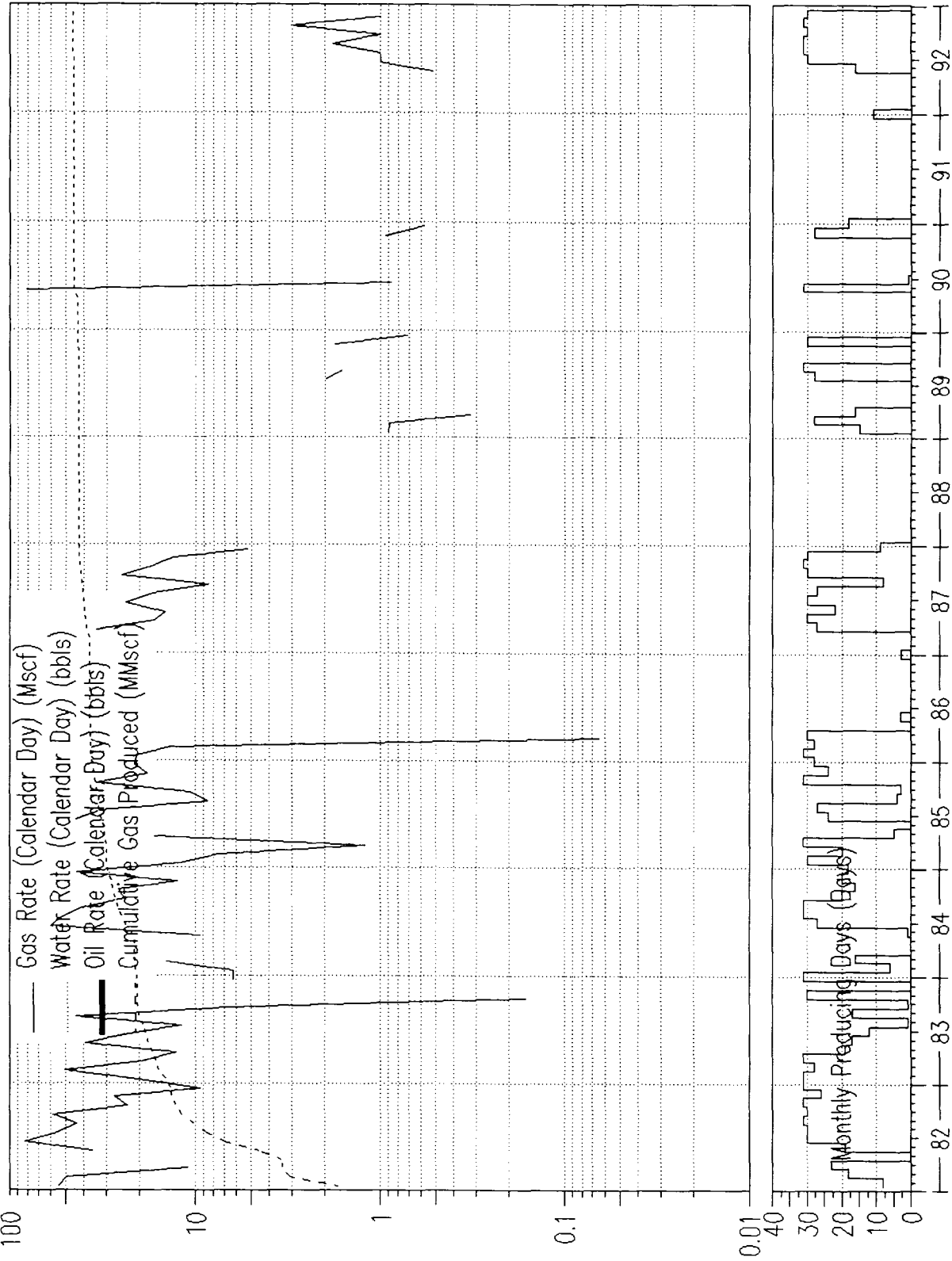
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PJAC : 1490



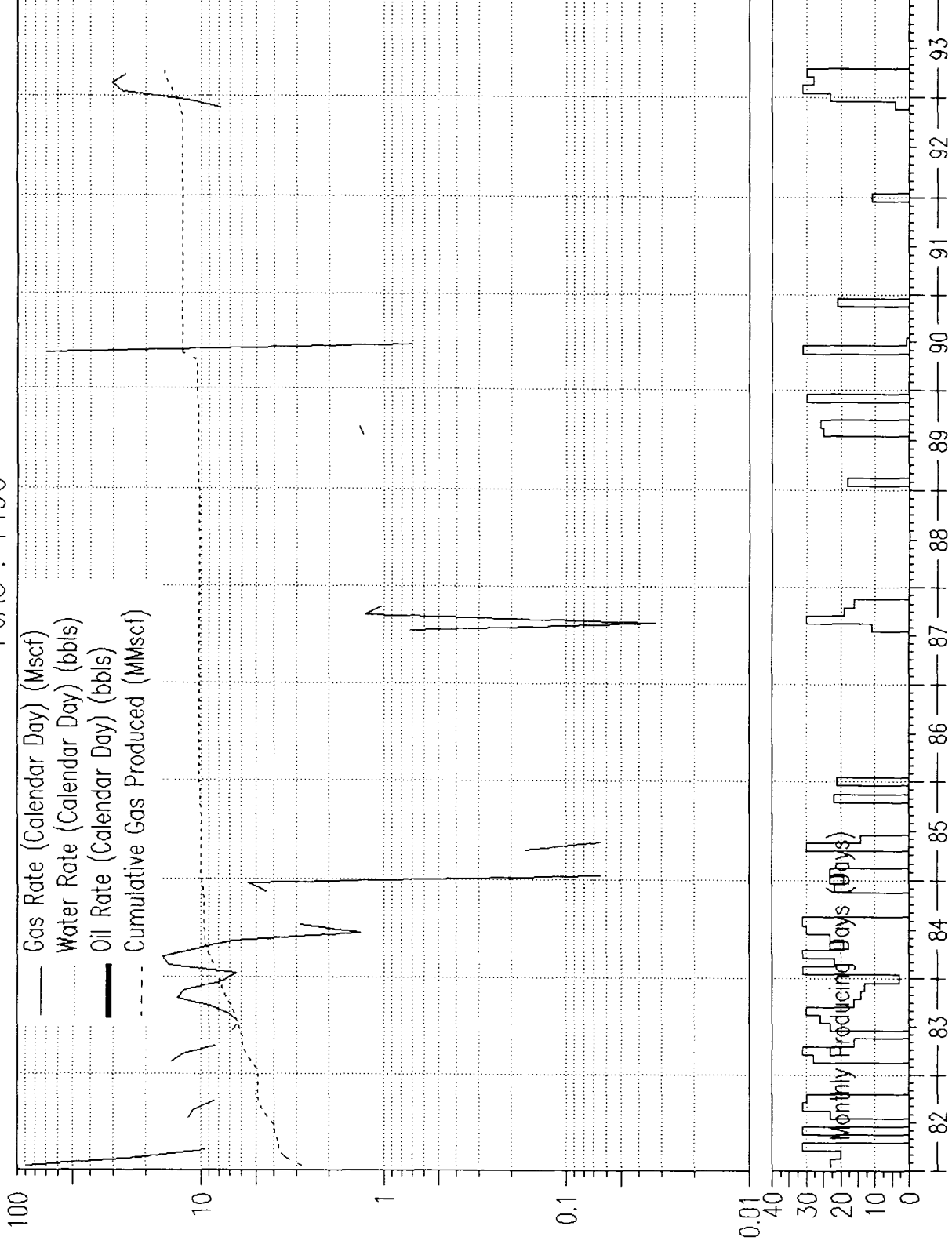
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PJAC : 1490



JICARILLA CONTRACT 148 22

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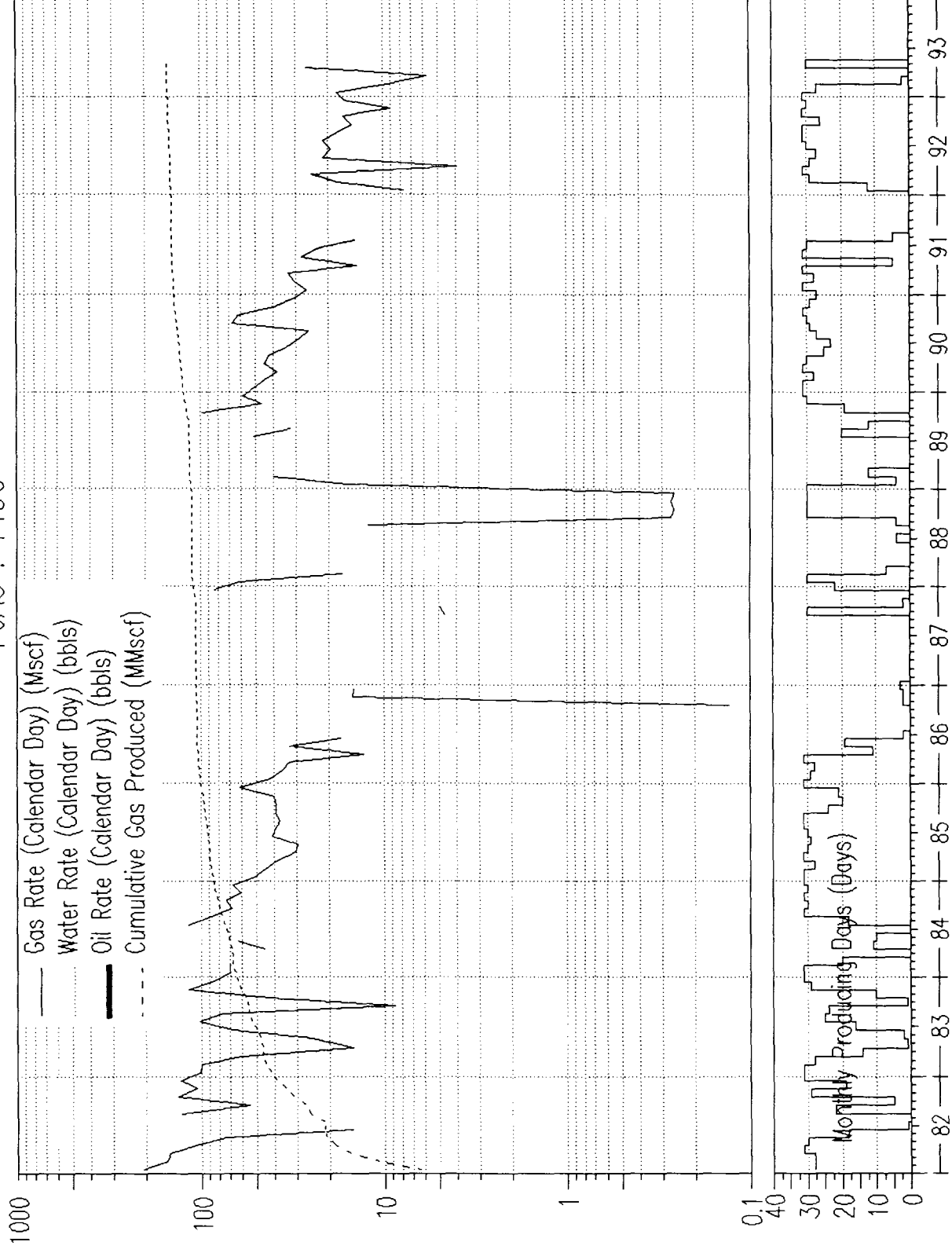
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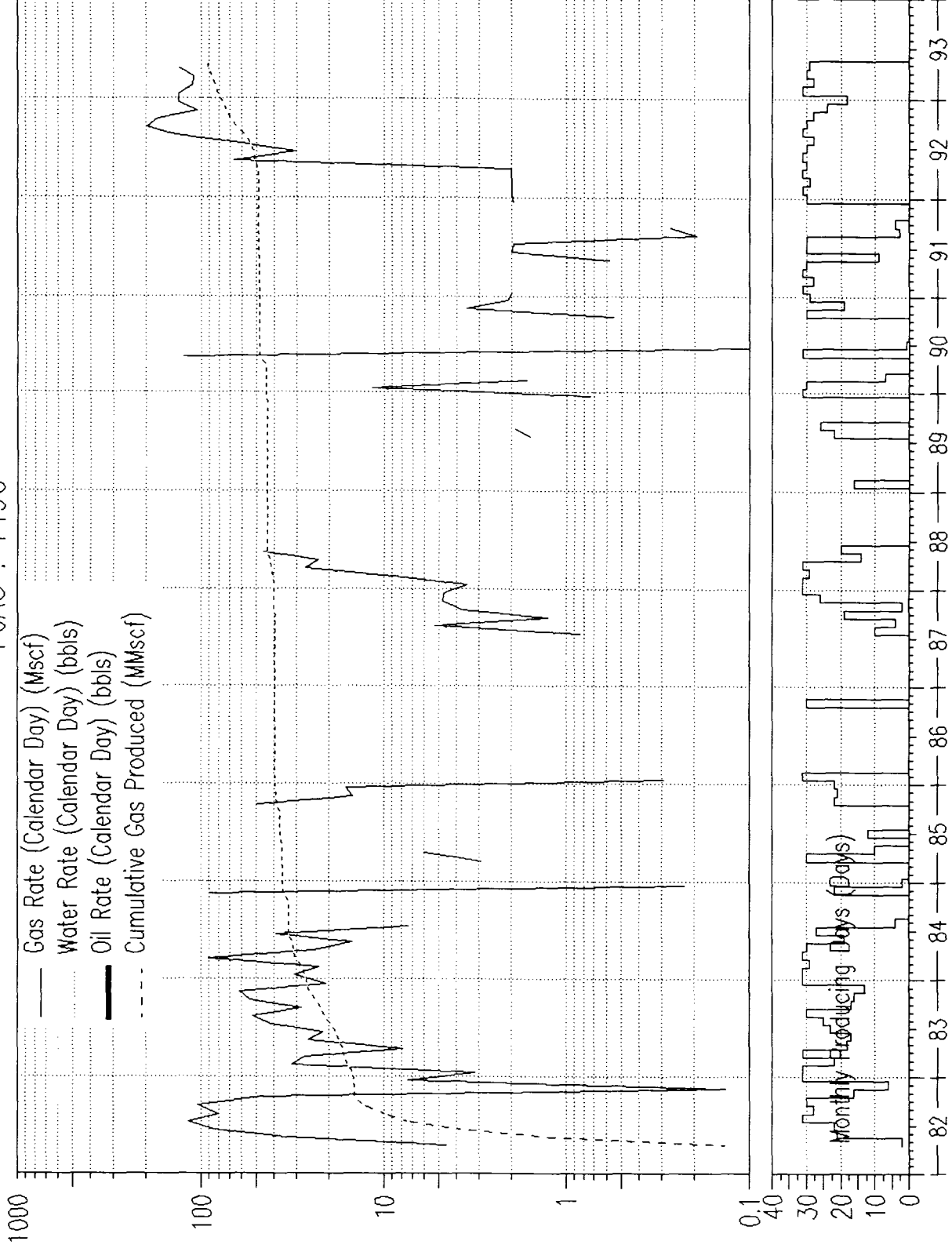


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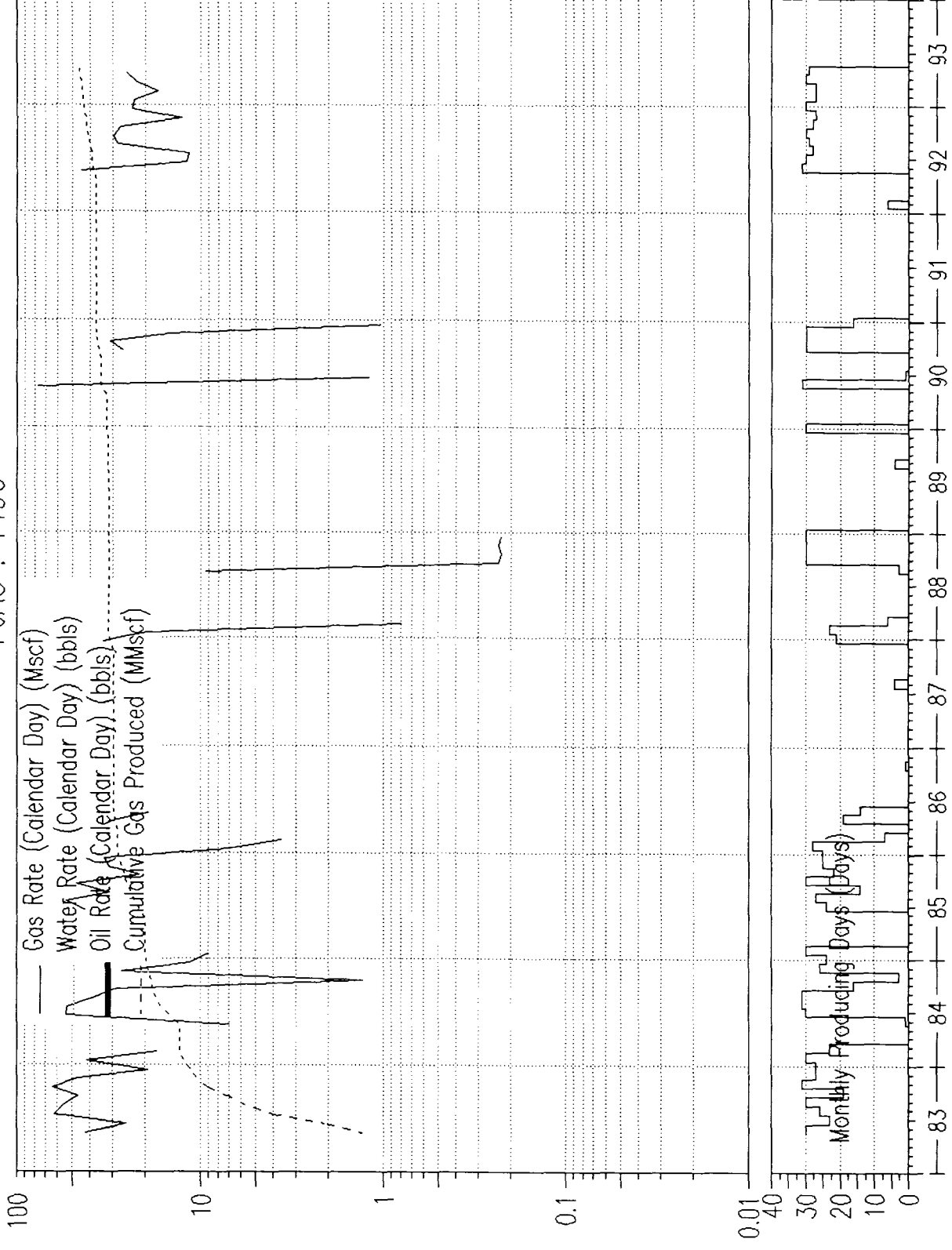




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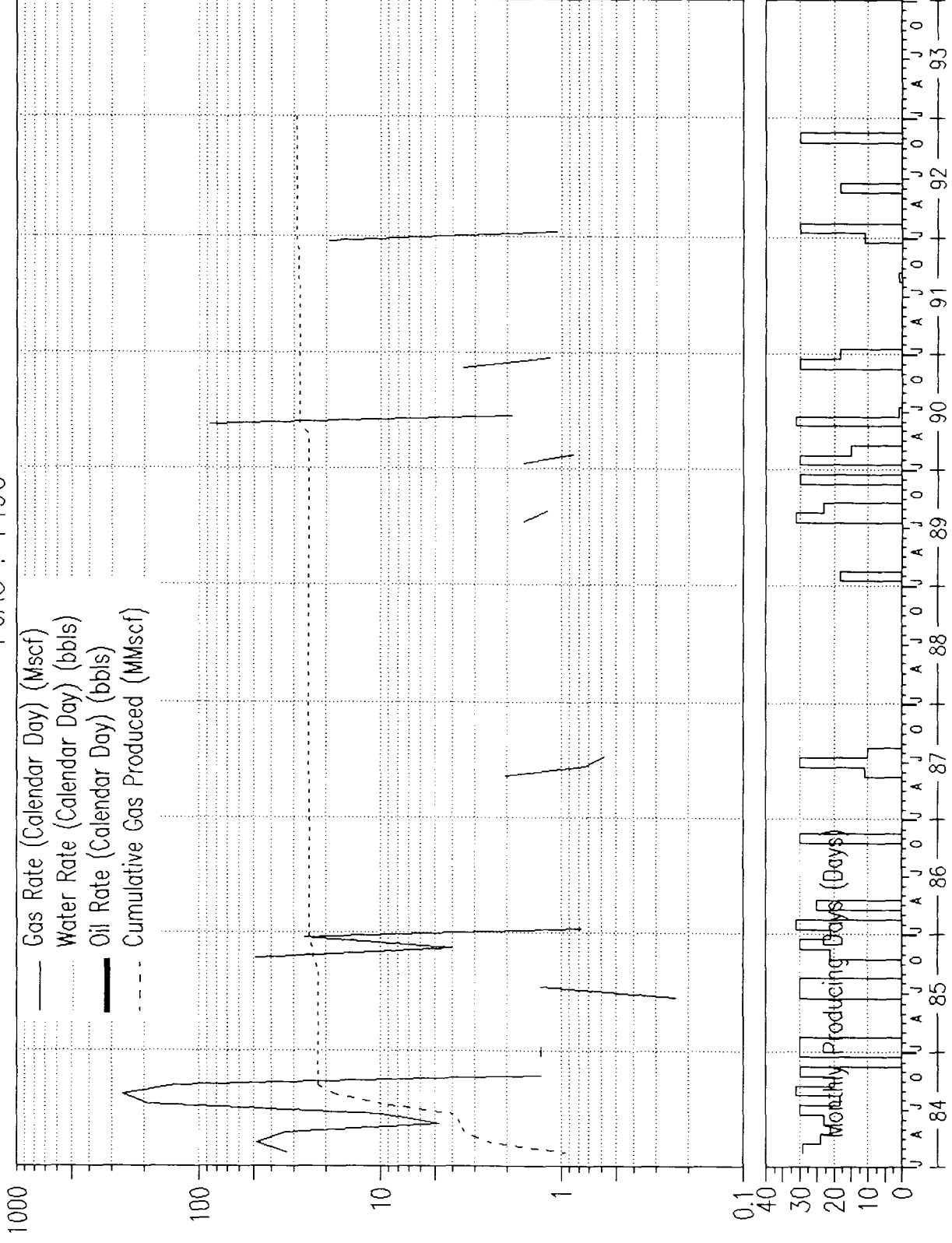
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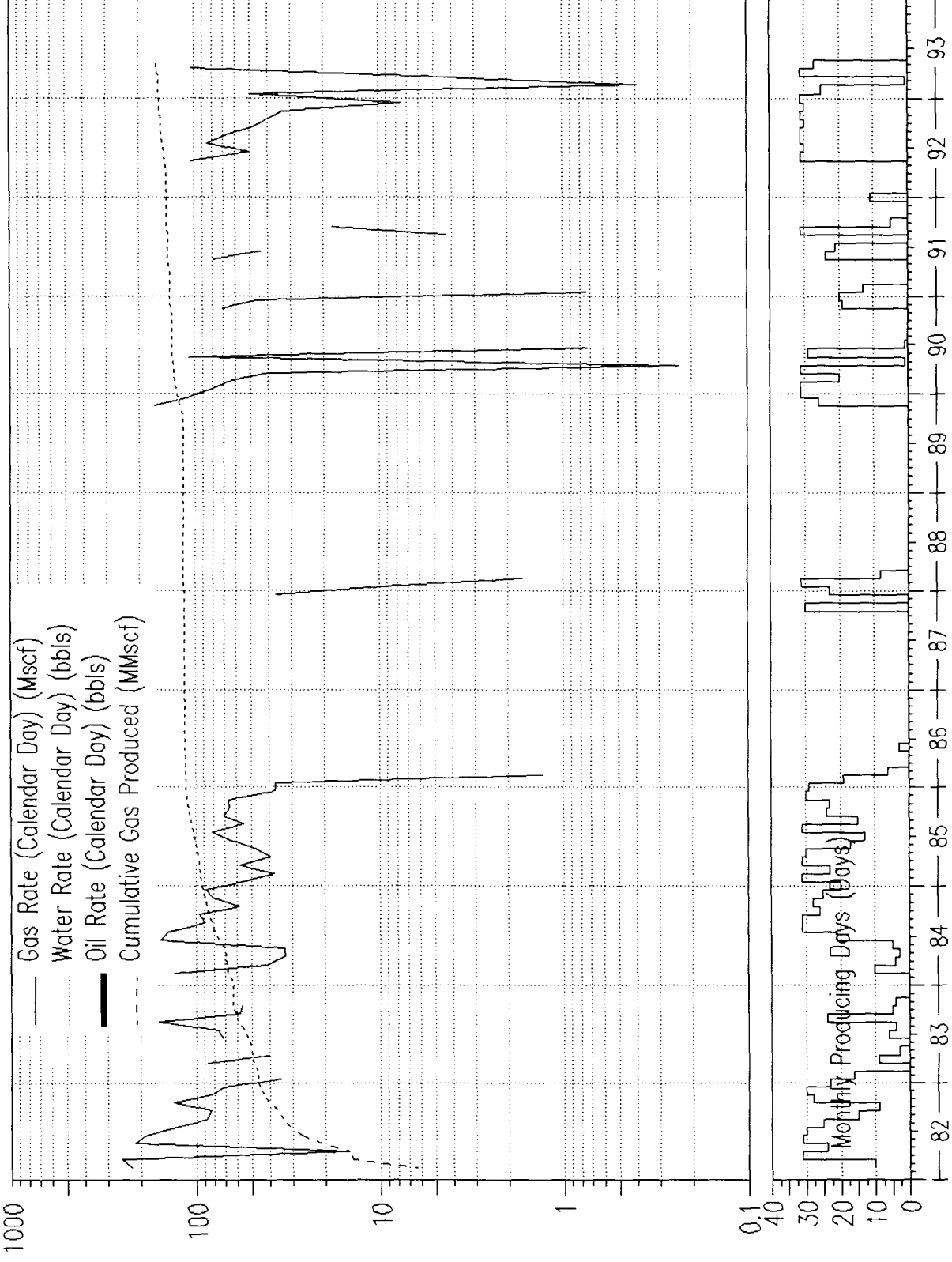
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JICARILLA CONTRACT 155 29

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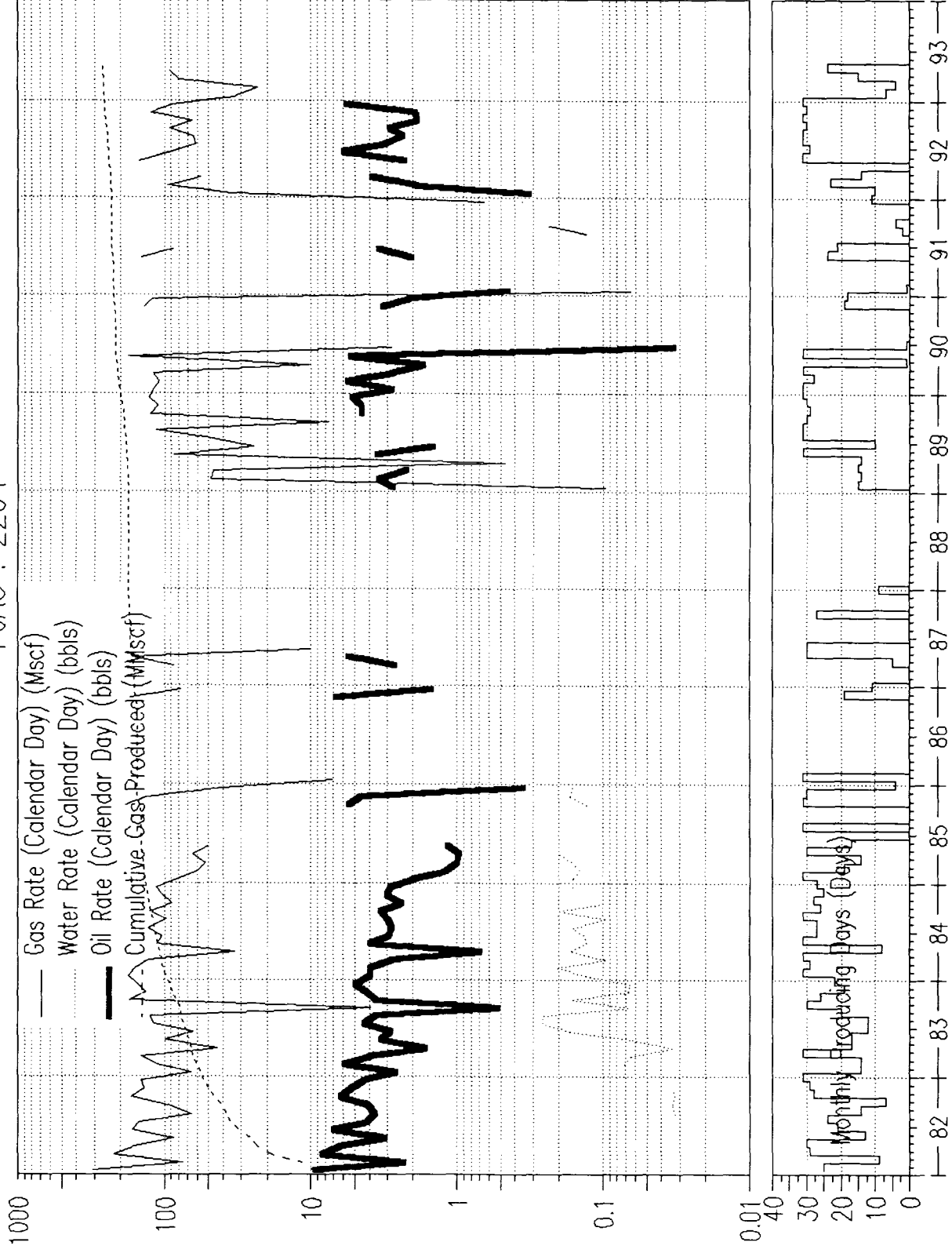
PJAC : 2204



JICARILLA CONTRACT 155 29

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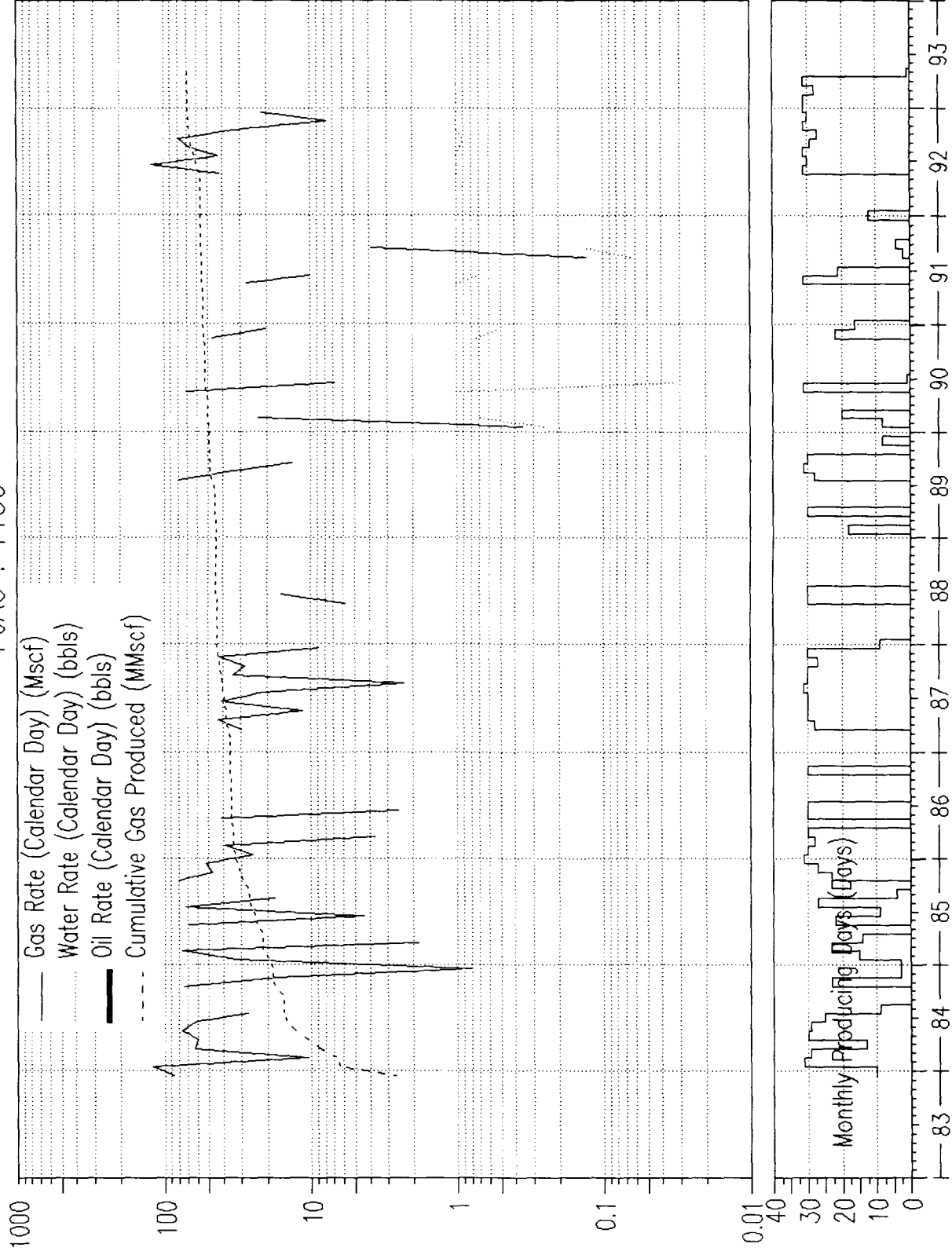
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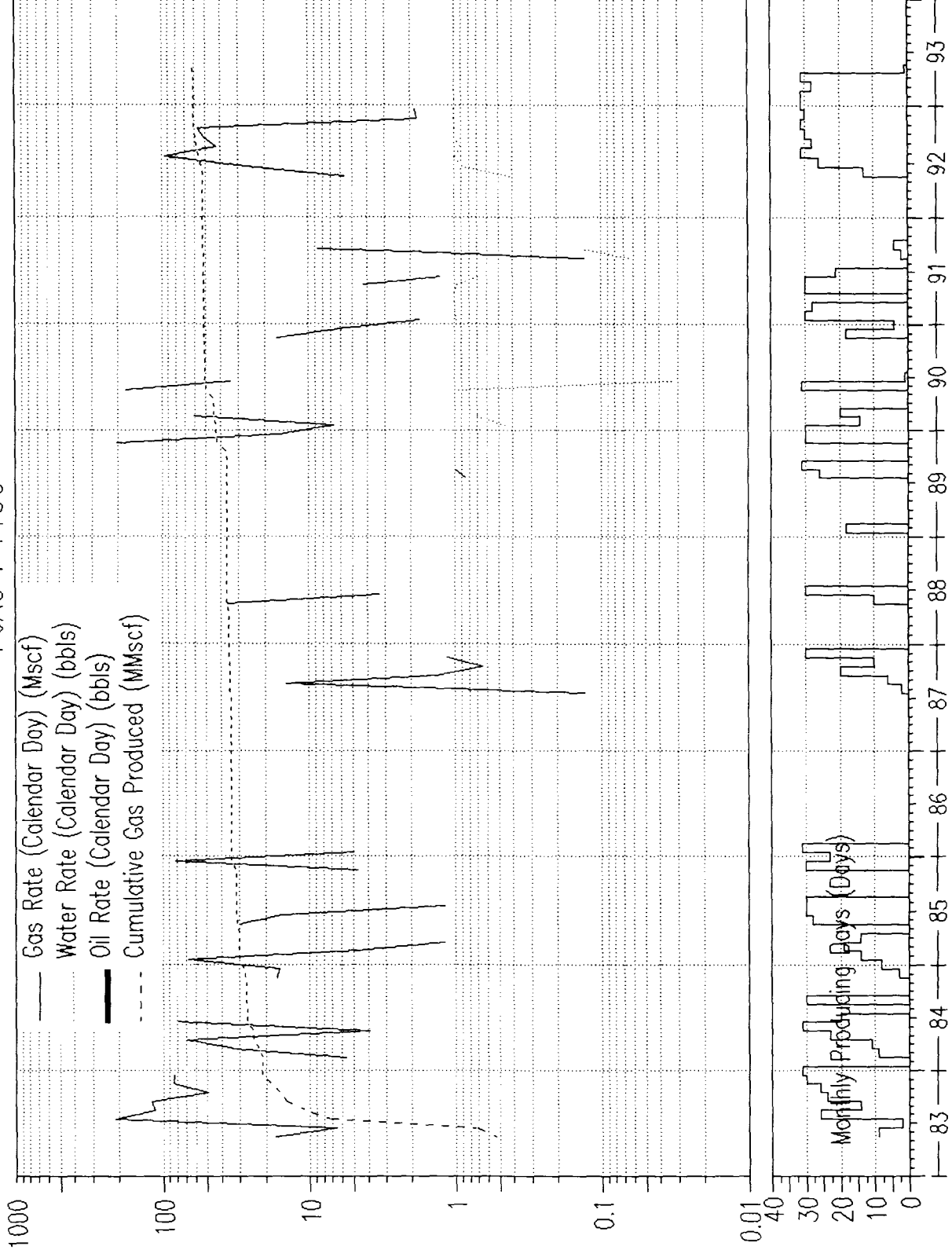
PJAC : 1130



JICARILLA CONTRACT 155 31

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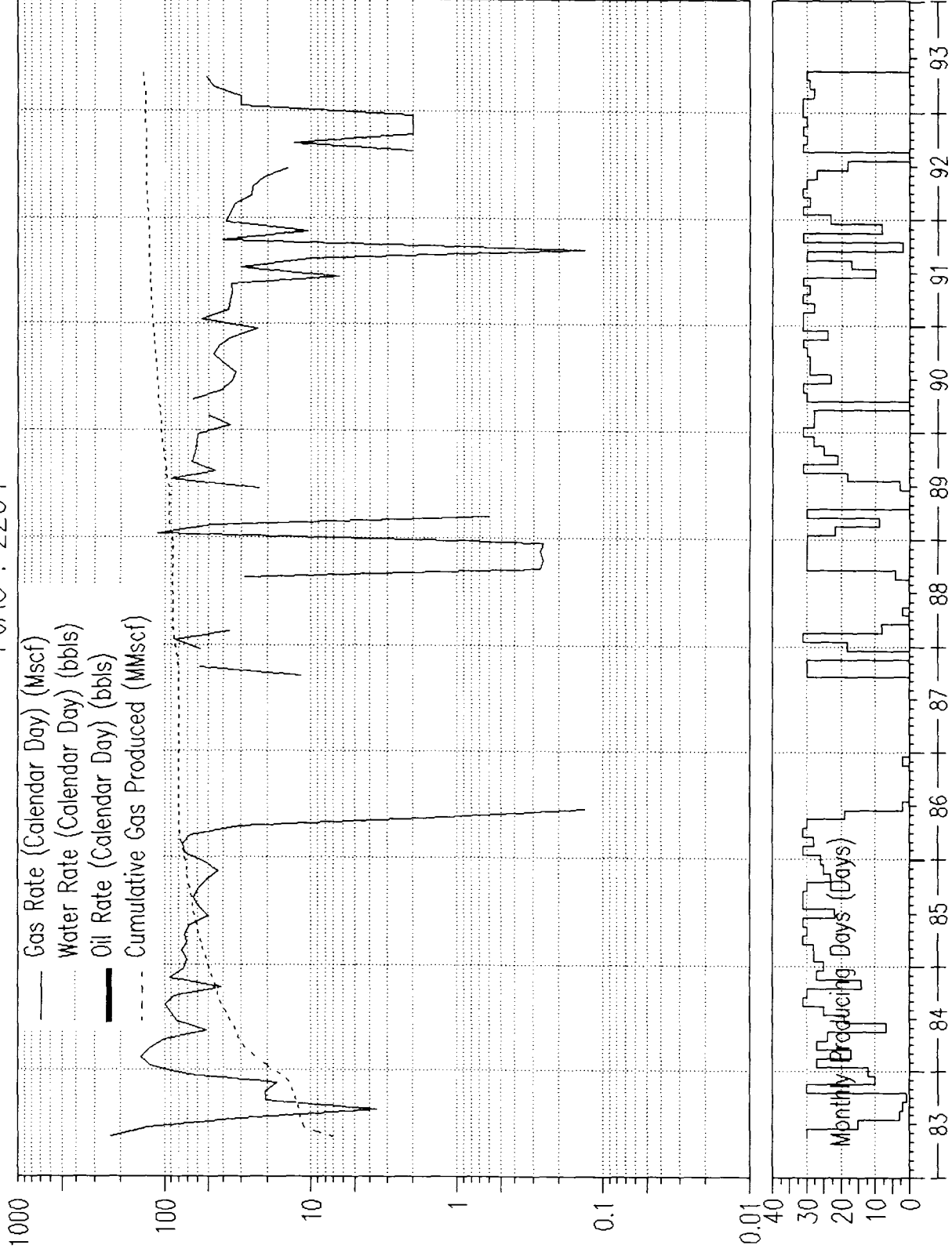
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JICARILLA GAS COM 155 A 1

WELL: 300392255300:CK

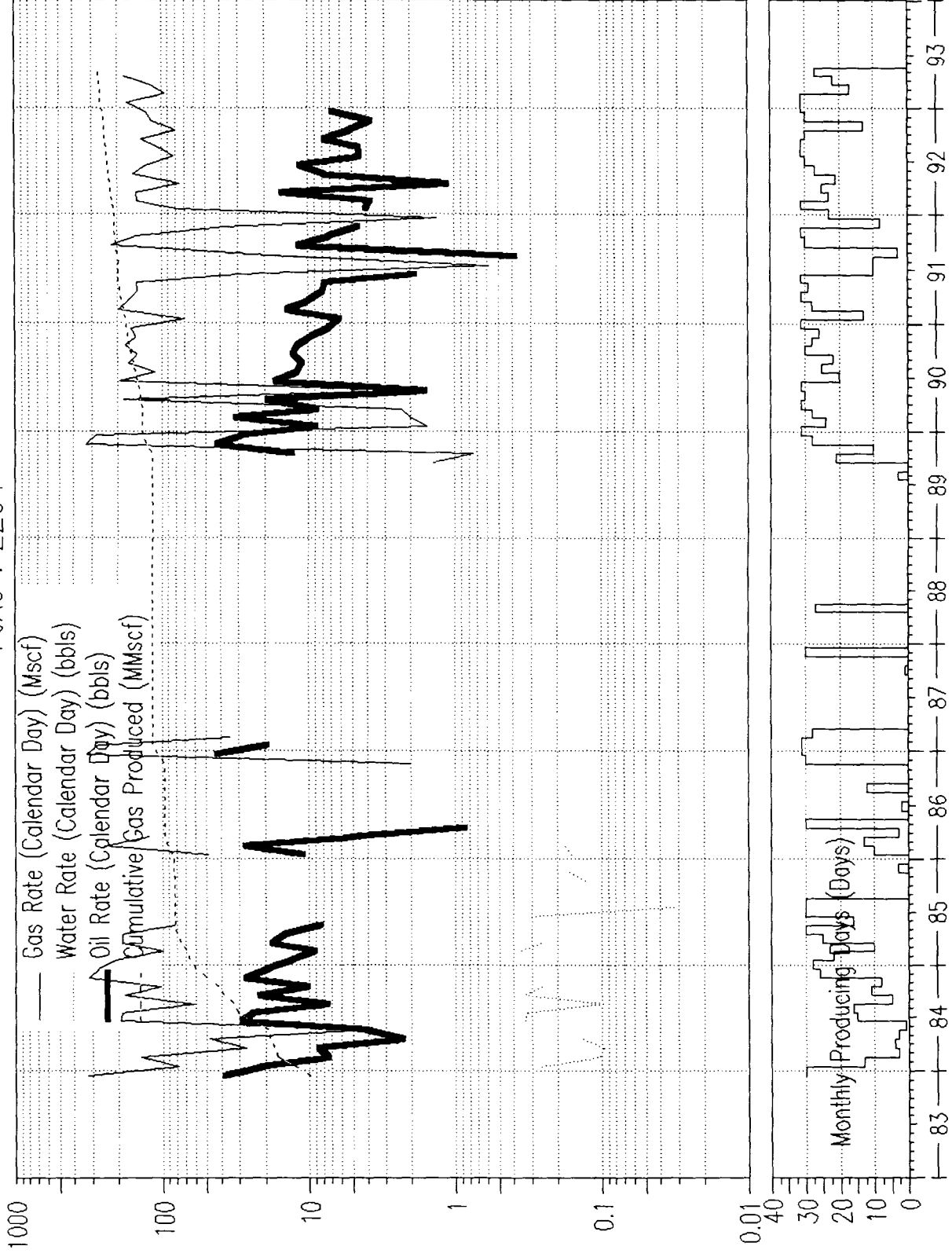
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JICARILLA GAS COM 155 A 1

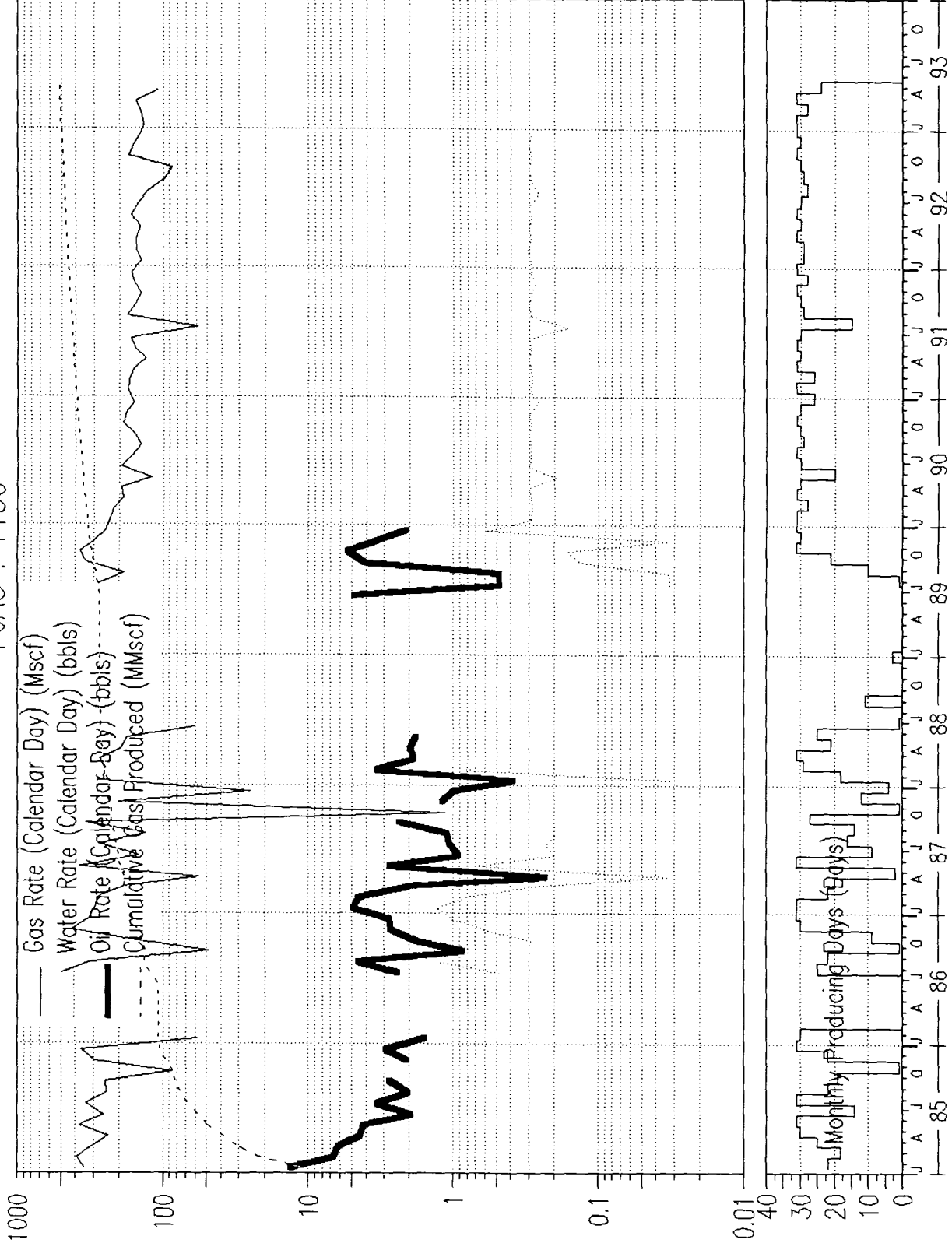
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PJAC : 2204



WELL: 300392317200:DK

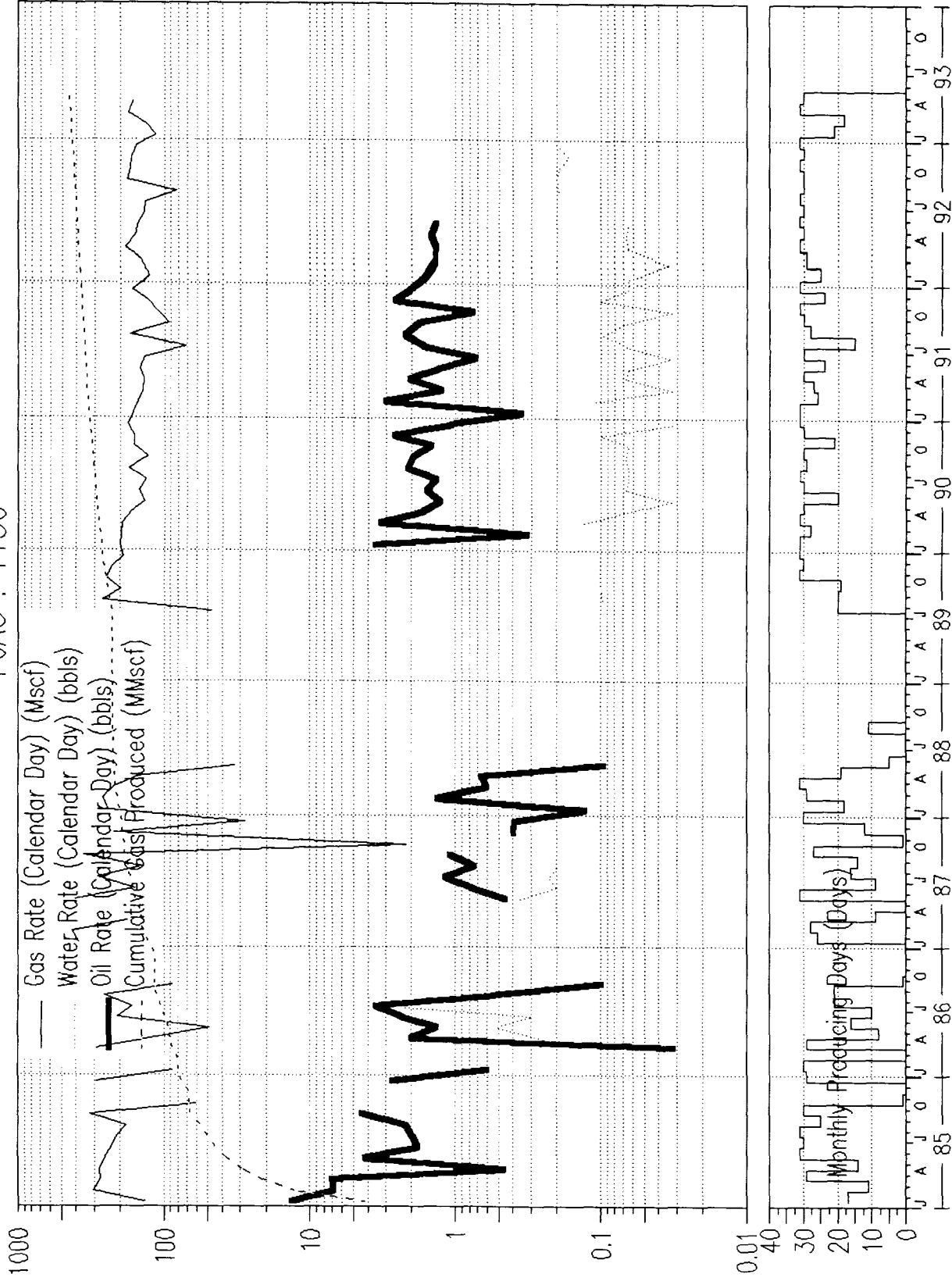
PJAC : 1130



REAMES COM 2

WELL: 300392317200:MV

PJAC : 1130





SF-079275 P.3/3
2 Reams Com Only

RECEIVED

Amoco Production Company

Southern Rockies Business Unit
Amoco Building
1670 Broadway
Post Office Box 800
Denver, Colorado 80201
303-830-4040

SEP 16 PM 1:16

DUPLICATE, NM

August 12, 1993

Bureau of Land Management
435 Montano NE
Albuquerque, New Mexico 87107
Attn: Robert Kent

Bureau of Land Management
1235 La Plata Hwy.
Farmington, New Mexico 87499
Attn: John Keller

File: CAW-172-986.511

Proposed surface commingling of 29 dual wells
Rio Arriba County, New Mexico

Enclosed is a copy of Amoco Production Company's application to surface commingle production from 29 dual wells. These wells all have a common ownership (WI, RI, ORRI) in the formations to be surface commingled. Twenty eight (28) of the wells are Jicarilla Apache Tribe leases and one well is on a Federal Lease. Please review the application and provide a letter of consent to Amoco Production Company with a copy to NMOCB, P.O. Box 2088, Santa Fe, NM 87504.

If additional information is required, please contact me at (303) 830-5072.

Thank you for your assistance in this matter.

Sincerely,

J. W. Hawkins

JWH/jmc

cc: Lara Kwartin

APPROVED

AUG 17 1993
DISTRICT MANAGER

Oper



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Rio Puerco Resource Area
435 Montano N.E.
Albuquerque, New Mexico 87107-4935



IN REPLY REFER TO:

JIC Cont. 110, et al.
3160 (017)

SEP 21 1993

Amoco Production Company
ATTN: J.W. Hawkins
P.O. Box 800
Denver, CO 80201

Dear Mr. Hawkins:

Per your letter dated August 12, 1993, approval is hereby given for surface comingling on the following Jicarilla wells.

<u>JIC Lease #</u>	<u>Well #</u>	<u>Location</u>
110	A-1E	Section 18, T. 26 N., R. 5 W.
110	A-2	Section 18, T. 26 N., R. 5 W.
110	A-3	Section 19, T. 26 N., R. 5 W.
110	A-5	Section 20, T. 26 N., R. 5 W.
110	A-8	Section 17, T. 26 N., R. 5 W.
110	A-9	Section 20, T. 26 N., R. 5 W.
109	B-2E	Section 16, T. 26 N., R. 5 W.
109	B-4	Section 21, T. 26 N., R. 5 W.
109	B-7	Section 16, T. 26 N., R. 5 W.
109	B-7E	Section 16, T. 26 N., R. 5 W.
109	B-8M	Section 15, T. 26 N., R. 5 W.
108	C-2E	Section 14, T. 26 N., R. 5 W.
108	C-3	Section 23, T. 26 N., R. 5 W.
108	C-6	Section 14, T. 26 N., R. 5 W.
102	10E	Section 4, T. 26 N., R. 4 W.
102	8E	Section 3, T. 26 N., R. 4 W.
146	22	Section 10, T. 25 N., R. 5 W.
146	29	Section 9, T. 25 N., R. 5 W.
146	32	Section 10, T. 25 N., R. 5 W.
146	36	Section 4, T. 25 N., R. 5 W.
146	39	Section 3, T. 25 N., R. 5 W.
148	20	Section 23, T. 25 N., R. 5 W.
148	22	Section 13, T. 25 N., R. 5 W.
148	25	Section 15, T. 25 N., R. 5 W.
148	26	Section 14, T. 25 N., R. 5 W.
155	29	Section 32, T. 26 N., R. 5 W.

2

<u>JIC Lease #</u>	<u>Well #</u>	<u>Location</u>
155	31	Section 29, T. 26 N., R. 5 W.
155	1	Section 32, T. 26 N., R. 5 W.

If you have any questions, please contact me at (505) 761-8793.

Sincerely,



Shirley Mondy
Acting Area Manager

cc:
Jicarilla Tribe
Bureau of Indian Affairs