

OIL CONSERVATION DIVISION

APPROVAL PROCESS:

☒ Administrative ☐ Hearing

EXISTING WELLBORE
☒ YES ☐ NO

APPLICATION FOR DOWNHOLE COMMINGLING

Amoco Production Company		P.O. Box 800 Denver, CO 80201	
Operator	Address	County	
Annie L. Elliott B	D-10-29N-9W	San Juan	
Lease	Well No.	Unit Lir. - Sec Twp - Rge	
	6E		

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 000778 Property Code 000460 API NO. 3004525716 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)	4048' - 4733' PROPOSED		6794' - 6912'
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) 448 PSI b. (Original) 1210 PSI	a. b. OIL CON. DIV. DIST. 3	a. 800 PSI b. 1750 PSI
6. Oil Gravity (° API) or Gas BTU Content	1150 BTU / 49 DEG API		1100 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: 240 MCFD 0.12 BCPD 2 BWPD	Date: Rates:	Date: Rates:
• If Producing, give date and oil/gas/water rates of recent test (within 60 days)	Date: Rates:	Date: Rates:	6/1/97-7/22/97 63 MCFD 0 BCPD 0 BWPD
8. Fixed Percentage Allocation Formula -% for each zone	Oil: 100 % Gas 79 %	Oil: % Gas %	Oil: 0 % Gas 21 %

9. If allocation formula is based upon something other than current or past production, or is based upon some other method, submit attachments with supporting data and/or explaining method and providing rate projections or other required data.
10. Are all working, overriding, and royalty interests identical in all commingled zones? ☐ Yes ☒ No
If not, have all working, overriding, and royalty interests been notified by certified mail? ☒ Yes ☐ No
Have all offset operators been given written notice of the proposed downhole commingling? ☒ Yes ☐ No
11. Will cross-flow occur? ☒ Yes ☐ No If yes, are fluids compatible, will the formations not be damaged, will any cross-flowed production be recovered, and will the allocation formula be reliable. ☒ Yes ☐ No (If No, attach explanation)
12. Are all produced fluids from all commingled zones compatible with each other? ☒ Yes ☐ No
13. Will the value of production be decreased by commingling? ☐ Yes ☒ No (If Yes, attach explanation)
14. If this well is on, or communitized with, state or federal lands, either the Commissioner of Public Lands or the United States Bureau of Land Management has been notified in writing of this application. ☐ Yes ☐ No SF-078132
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 7/25/97

TYPE OR PRINT NAME PAMELA W. STALEY TELEPHONE NO. (303) 830-5344

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

Operator AMOCO PRODUCTION COMPANY			Lease ANNIE L. ELLIOTT "B"		Well No. 6E
Unit Letter D	Section 10	Township 29N	Range 9W	County San Juan	
Actual Footage Location of Well: 590 feet from the North line and 650 feet from the West line					
Ground Level Elev: 5816	Producing Formation Dakota		Pool Basin Dakota		Dedicated Acreage: 320 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.

Dale H. Shoemaker

Name
D. H. SHOEMAKER

Position
DISTRICT ENGINEER

Company
AMOCO PRODUCTION COMPANY

Date
JANUARY 11, 1983

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
December 22, 1982

Registered Professional Engineer and Land Surveyor

Fred B. Kerr Jr.
Fred B. Kerr Jr.

Certificate No. **1000**

Scale: 1"=1000'

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

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

State of New Mexico

Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 South Pacheco

Santa Fe, New Mexico 87505

Form C-102

Revised October 18, 1994

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 3004525716	Pool Code 72319	Pool Name Blanco Mesaverde
Property Code 000460	Property Name Annie L. Elliott B	Well Number 6E
OGRID No. 000778	Operator Name AMOCO PRODUCTION COMPANY	Elevation 5816

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 D	10	29N	9W		590	NORTH	650	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: 320	Joint or Infill	Consolidation Code	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**

	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: 07/16/1997
	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: 01/11/1983 Signature & Seal of Professional Surveyor: Fred B. Kerr Jr. Certificate No.: 3950



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

February 14, 1983

TONEY ANAYA
GOVERNOR

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-5800

Amoco Production Company
Petroleum Center Building
501 Airport Drive
Farmington, New Mexico 87401

Attention: S. D. Blossom

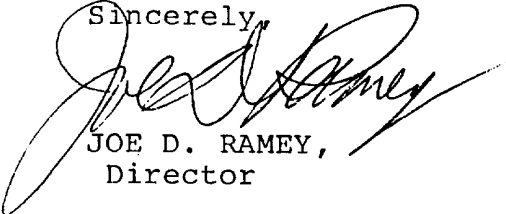
Administrative Order NSL-1656 5-BTB BU

Gentlemen:

Reference is made to your application for a non-standard location for your Annie L. Elliott "B" Well No. 6E, located 590 feet from the North line and 650 feet from the West line of Section 10, Township 29 North, Range 9 West, NMPM, Basin Dakota Field, San Juan County, New Mexico.

By authority granted me under the provisions of Rule 3 of Order No. R-1670, the above-described unorthodox location is hereby approved.

Sincerely,


JOE D. RAMEY,
Director

JDR/RLS/dr

cc: Oil Conservation Division - Aztec
Oil & Gas Engineering Committee - Hobbs

RECEIVED
FEB 15 1983
1
2
3
4
S
DR
GMD
6 RPM RM

February 4, 1983

Mr. Joe D. Ramey (3)
New Mexico Oil Conservation Division
P. O. Box 2088
Santa Fe, NM 87501

File: DDL-83-400.1

Dear Mr. Ramey:

Application for Unorthodox Location
Annie L. Elliott "B" No. 6E
Basin Dakota Field
San Juan County, New Mexico

Amoco Production Company hereby requests approval of our
Annie L. Elliott "B" No. 6E at a location 590' FNL and
650 FNL of Section 10, T29N, R9W, San Juan County, New Mexico.

The attached Form C-102 illustrates the topographical problems
encountered in selecting a suitable well site.

There are no offset lease holders or offset operators of
Basin Dakota wells.

Very truly yours,

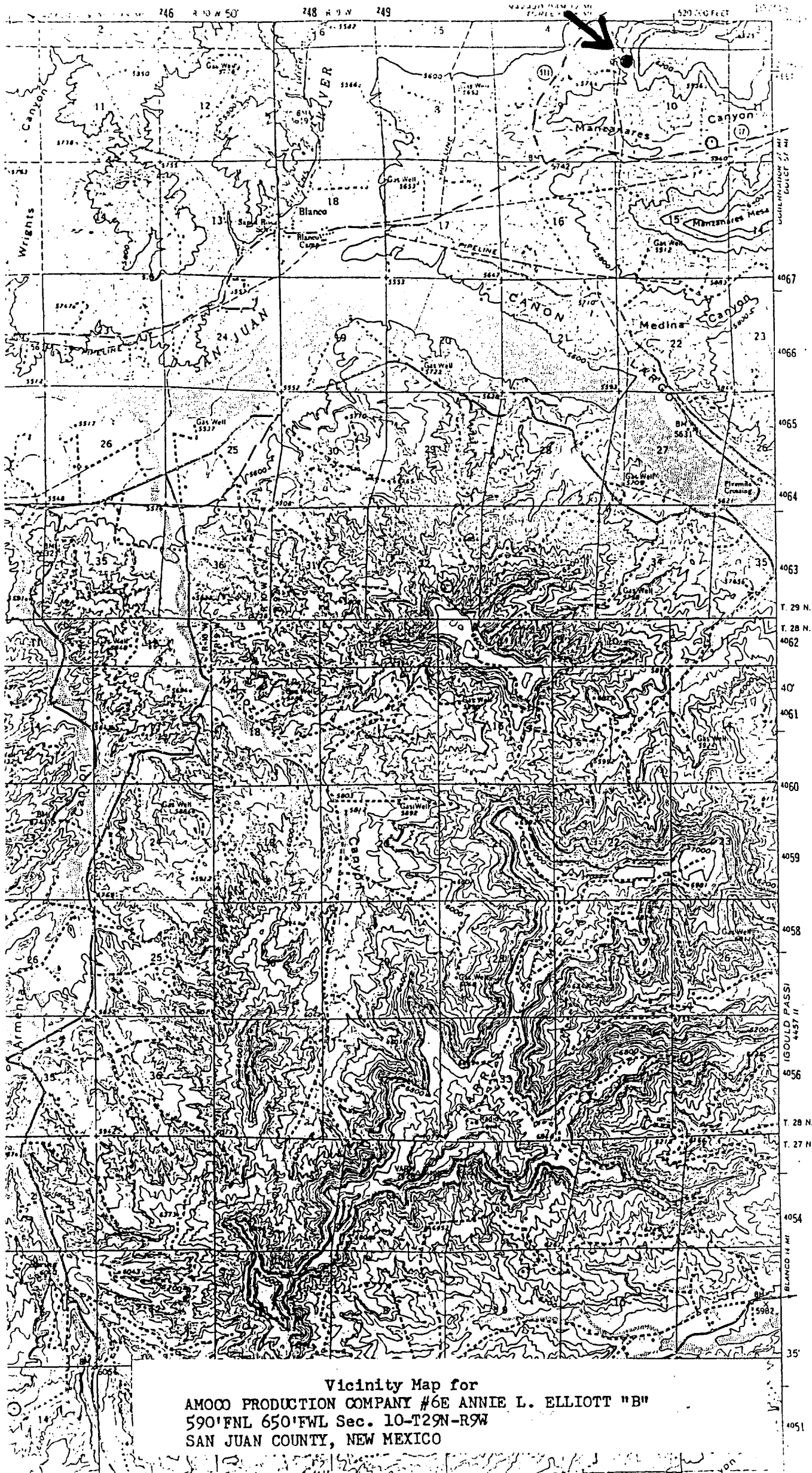
J. D. Blosson
~~Original Signed By~~
D.D. Lawson

RPM/mp

Attachment

cc: New Mexico Oil Conservation Commission
1000 Rio Brazos Road
Aztec, NM 87410

bcc: J. C. Burnside



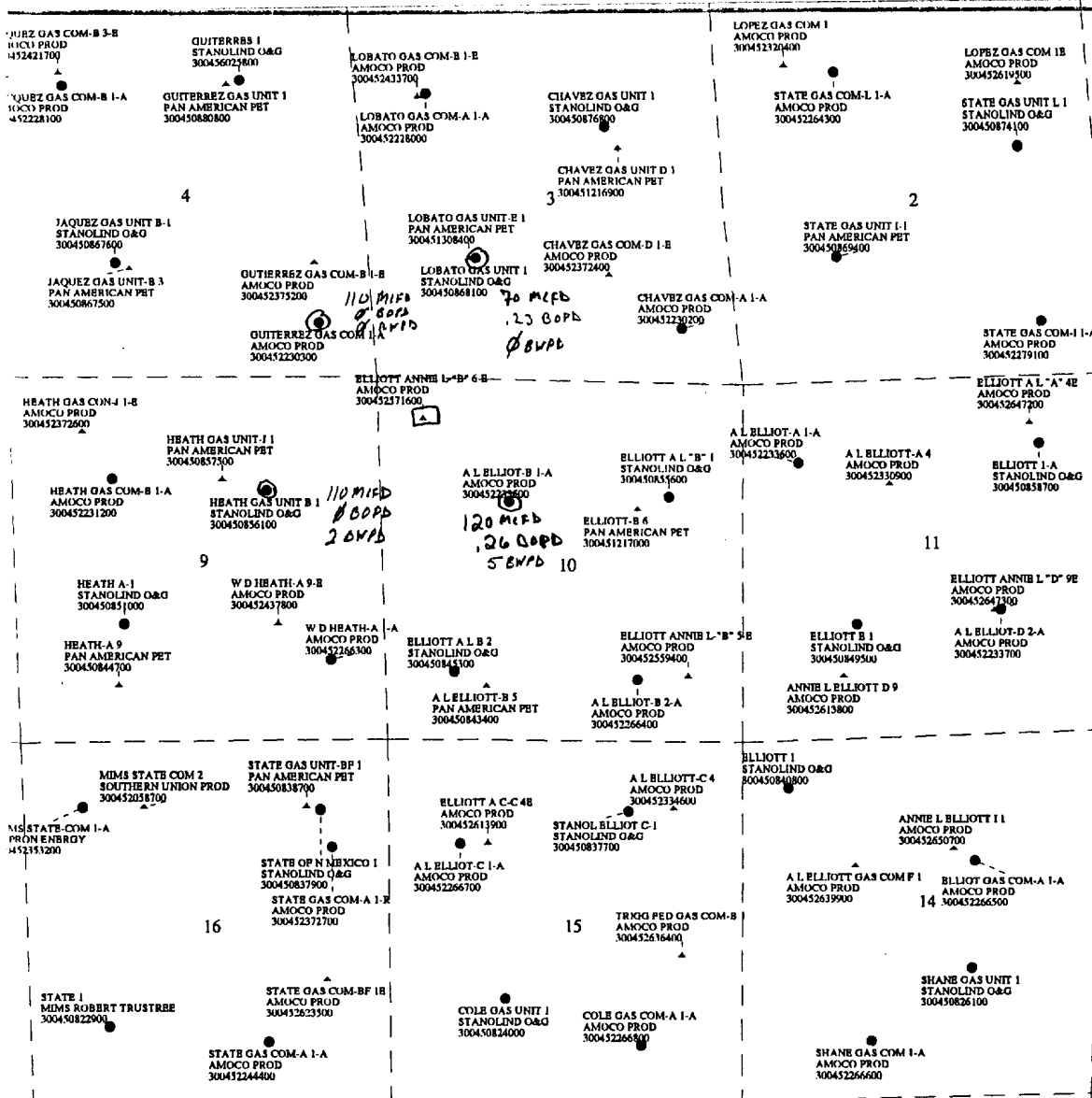
Production Allocation Recommendation
Annie L. Elliott B #6E

Production is proposed to be allocated based on a percentage allocation. The production for the Mesaverde is based on the attached analysis of offset production as well as reservoir simulation (curve attached)

Gas:	DK	63	21%
	MV	240	79%

Oil:	DK	0 BPD	0%
	MV	0.12 BPD	100%

Water :	DK	0 BPD	0%
	MV	2 BPD	100%



R9W

MV AVERAGES : 102 MCFD

2 BWPB

12 BOP

$P_{initial} = 1210 \text{ PSI}$

$P_{current} = 448 \text{ PSI}$

AMOCO

Type of Map:	
Location: ANNE ELLIOTT B C-E	
Block(s)/Well(s):	
Area/County:	License:
Interpretation(s):	Date: July 14, 1987
Scale: 1:2000	Compass Interval:
Remarks: This Section Plot is not for wells SCALE 1:2000	
File File No:	Well by: R. Beckwith

o a r j b - (MT) dekte producers

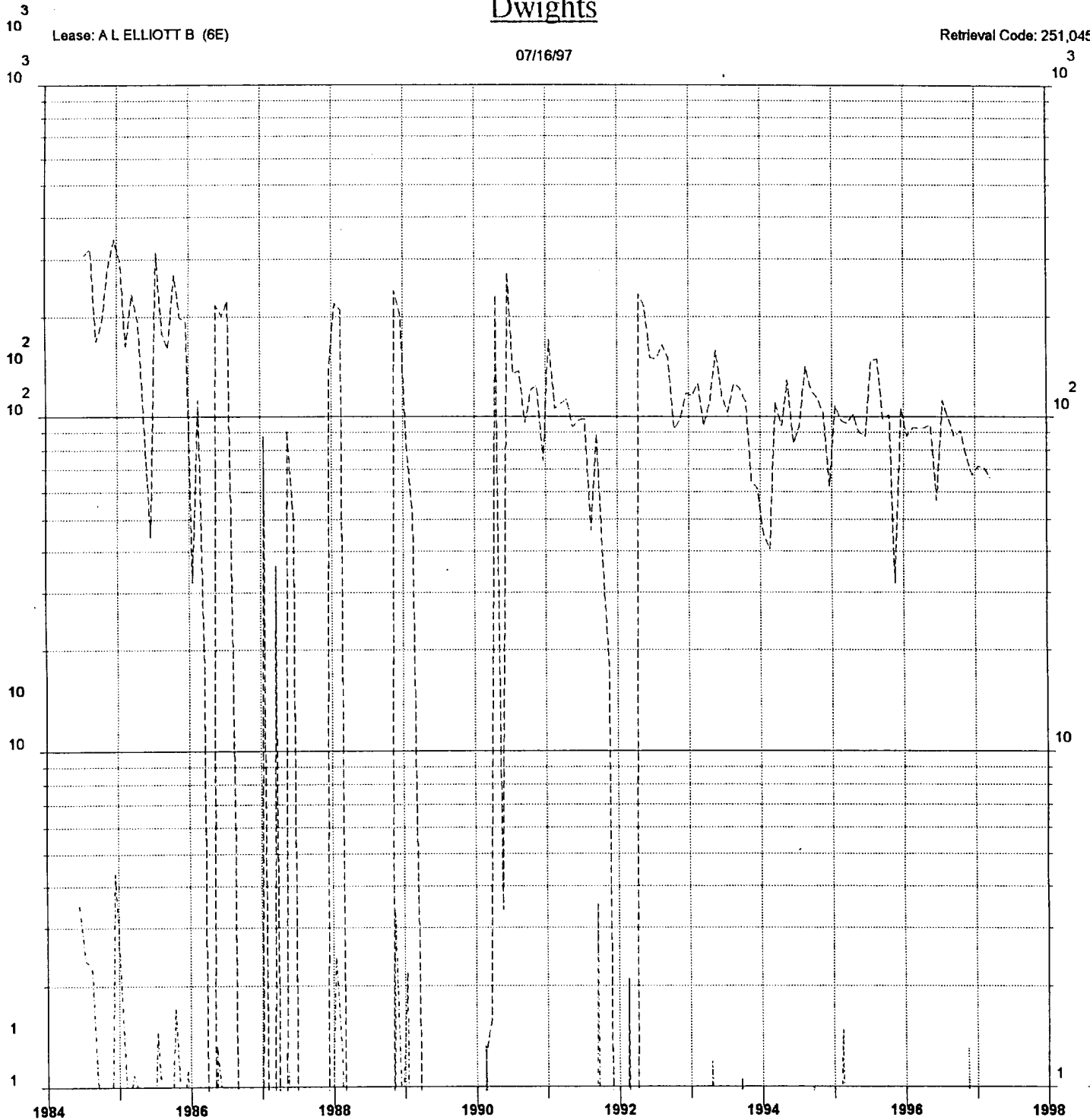
o a r j b - (MT) musavordo producers

Dwights

Lease: A L ELLIOTT B (6E)

07/16/97

Retrieval Code: 251,045,29



Oil (bbl/day)

County: SAN JUAN, NM

F.P. Date: 06/84

Gas (mcf/day)

Water (bbl/day)

Field: BASIN (DAKOTA) DK

Oil Cum: 2028 bbl

Reservoir: DAKOTA

Gas Cum: 445.1 mmcf

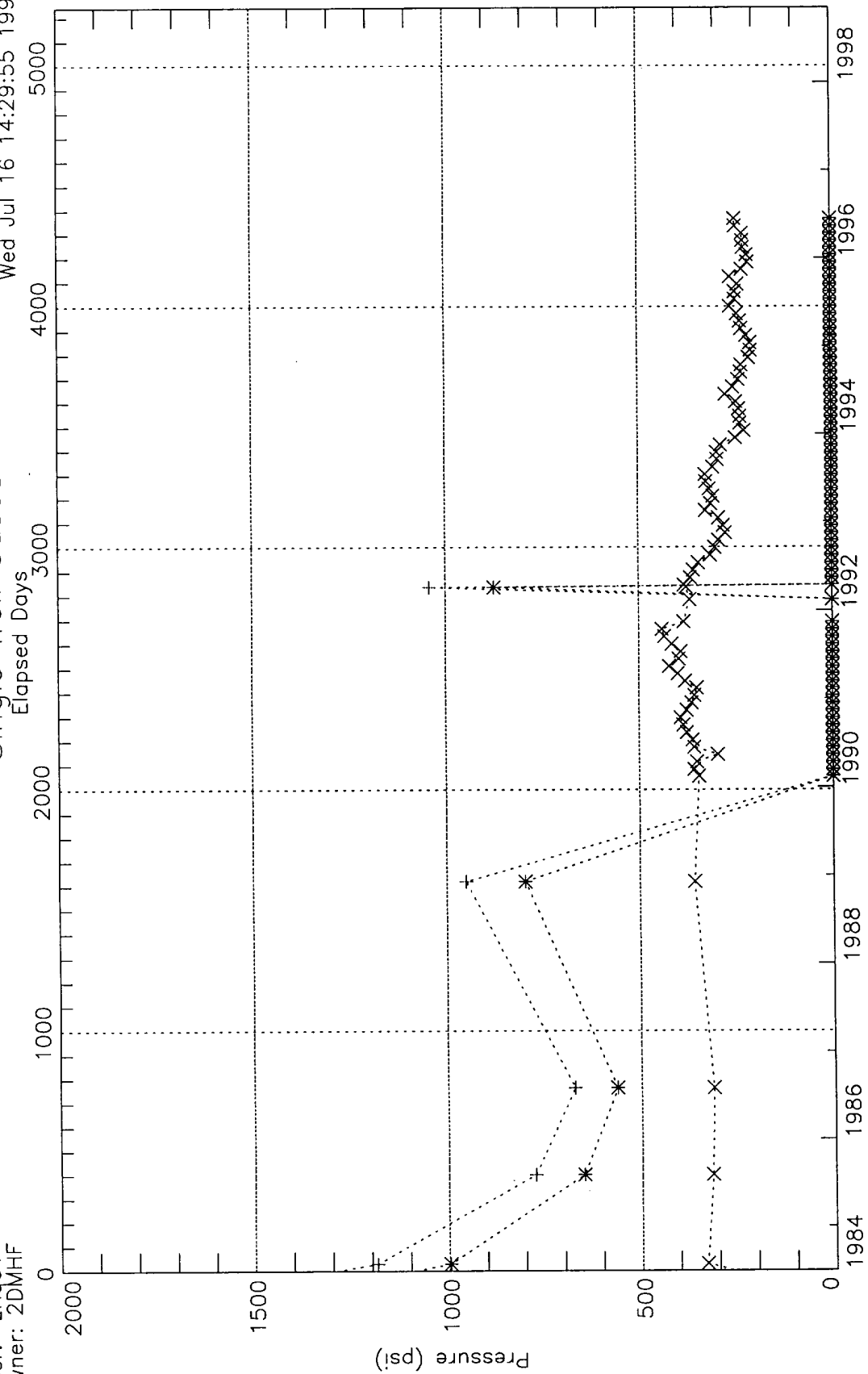
Operator: AMOCO PRODUCTION CO

Location: 10D 29N 9W

User: zrlq01
Owner: 2DMHF

Single Well Gas3D

Description 1
Wed Jul 16 14:29:55 1997



Date (Years)

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

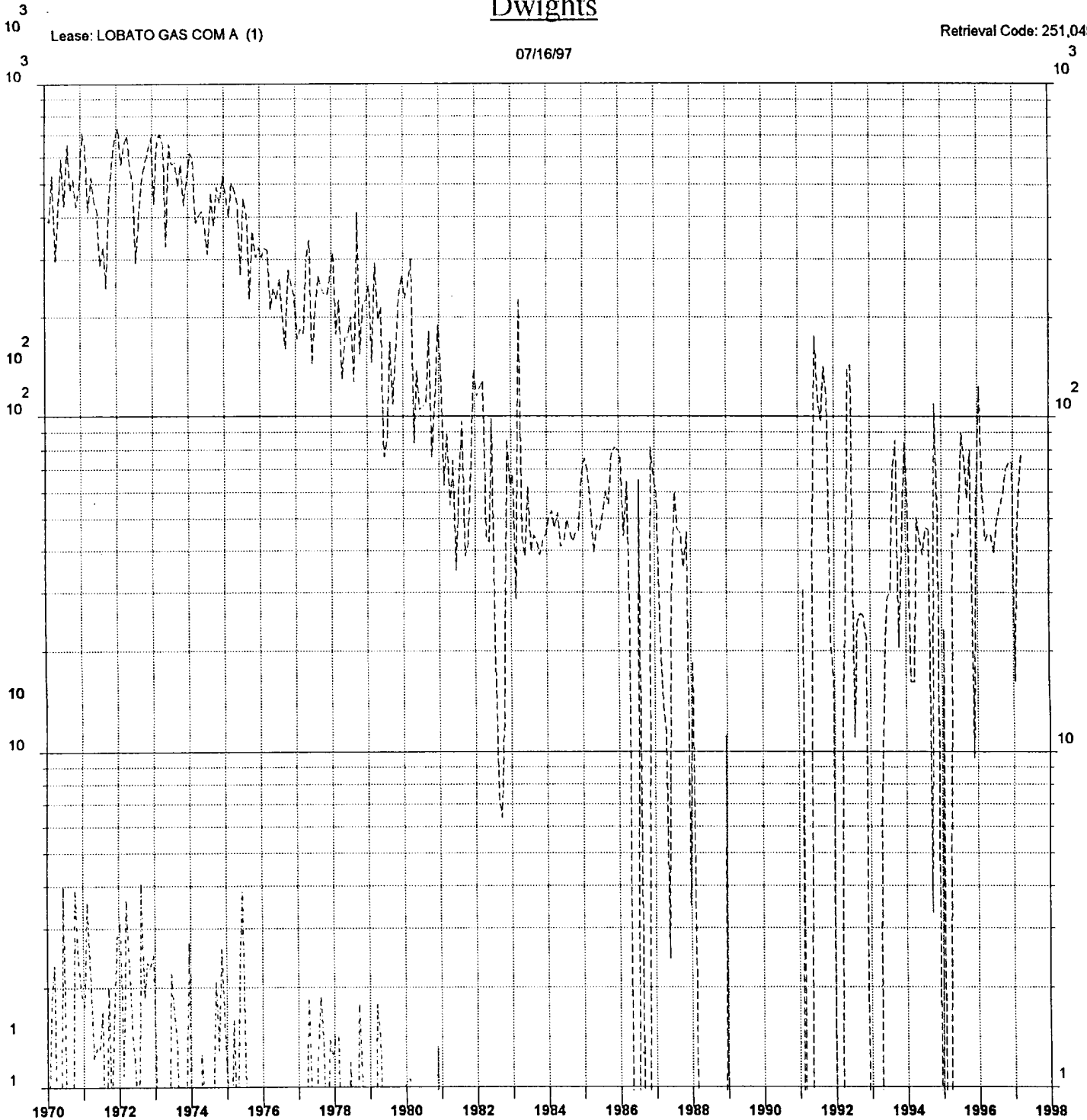
Well ID: 300452571600 602DK0T
Well Name: ELLIOTT, ANNIE L, /B/ - TRUE B E006D10
Operator: AMOCO PRODUCTION COMPANY

Dwights

Lease: LOBATO GAS COM A (1)

Retrieval Code: 251,045,29

07/16/97



Oil (bbl/day)

County: SAN JUAN, NM

F.P. Date: 05/53

Gas (mcf/day)

Water (bbl/day)

Field: BLANCO (MESAVERDE) MV

Oil Cum: 14.55 mbbl

Reservoir: MESAVERDE

Gas Cum: 5364 mmcf

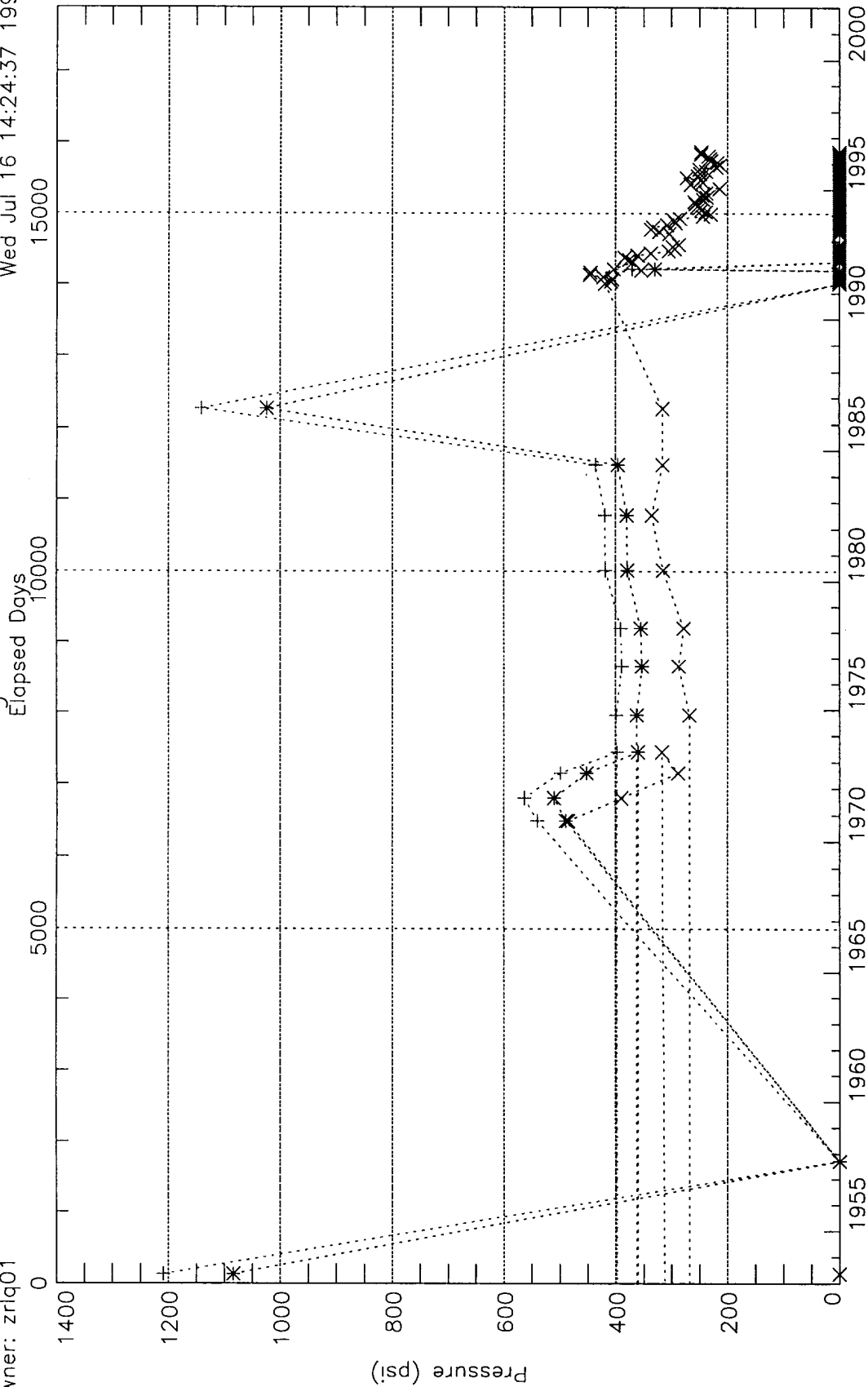
Operator: AMOCO PRODUCTION CO

Location: 3K 29N 9W

User: zrlq01
Owner: zrlq01

Single Well Gas3D

LOBATO GAS UNIT 1
Wed Jul 16 14:24:37 1997



Date (Years)

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

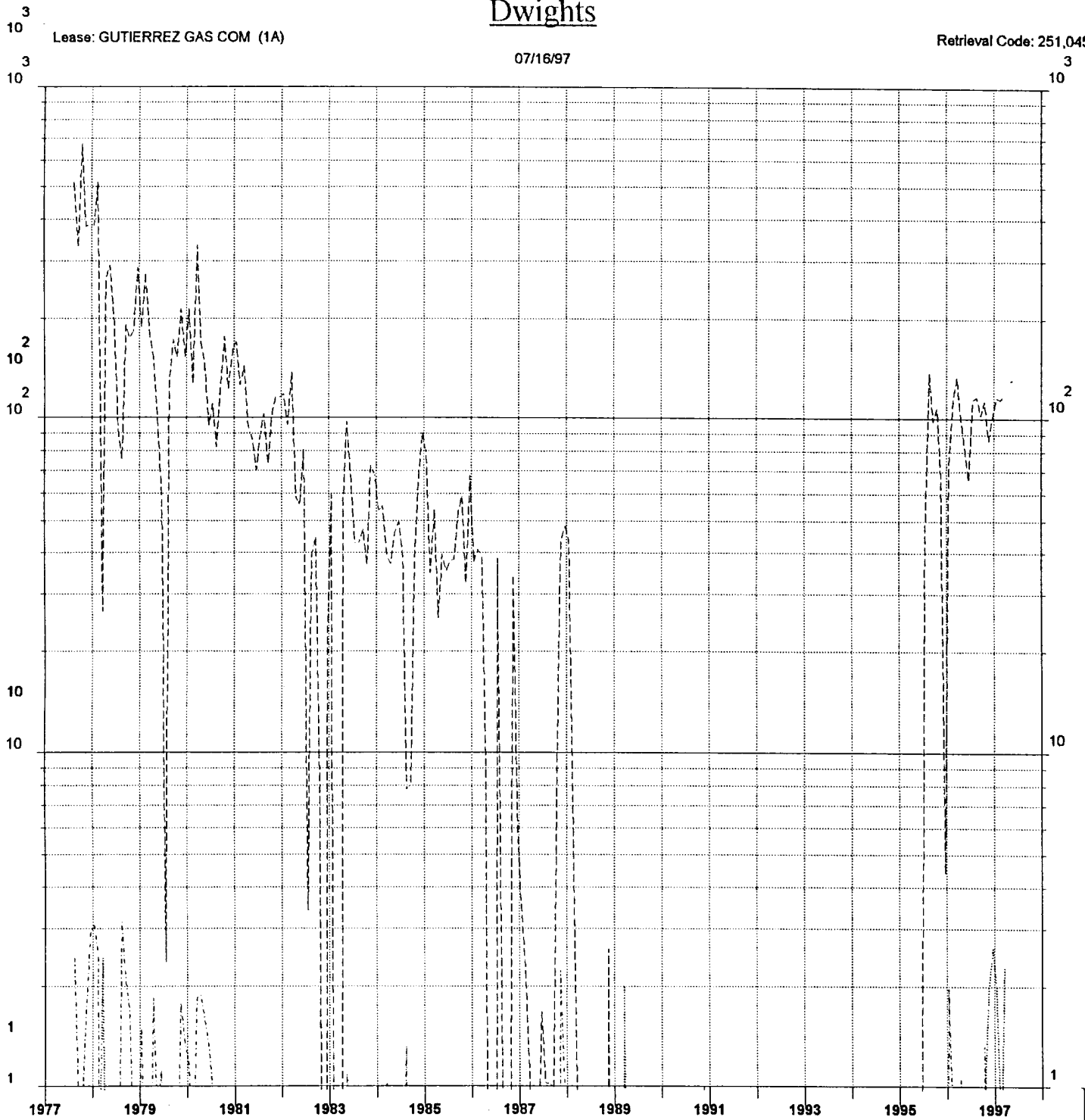
Well ID: 300450868100 604MVRD
Well Name: LOBATO GAS COM /A/ 001K03
Operator: AMOCO PROD

Dwights

Lease: GUTIERREZ GAS COM (1A)

07/16/97

Retrieval Code: 251,045,29



Oil (bbl/day)

County: SAN JUAN, NM

F.P. Date: 08/77

Gas (mcf/day)

Water (bbl/day)

Field: BLANCO (MESAVERDE) MV

Oil Cum: 2407 bbl

Reservoir: MESAVERDE

Gas Cum: 444.6 mmcf

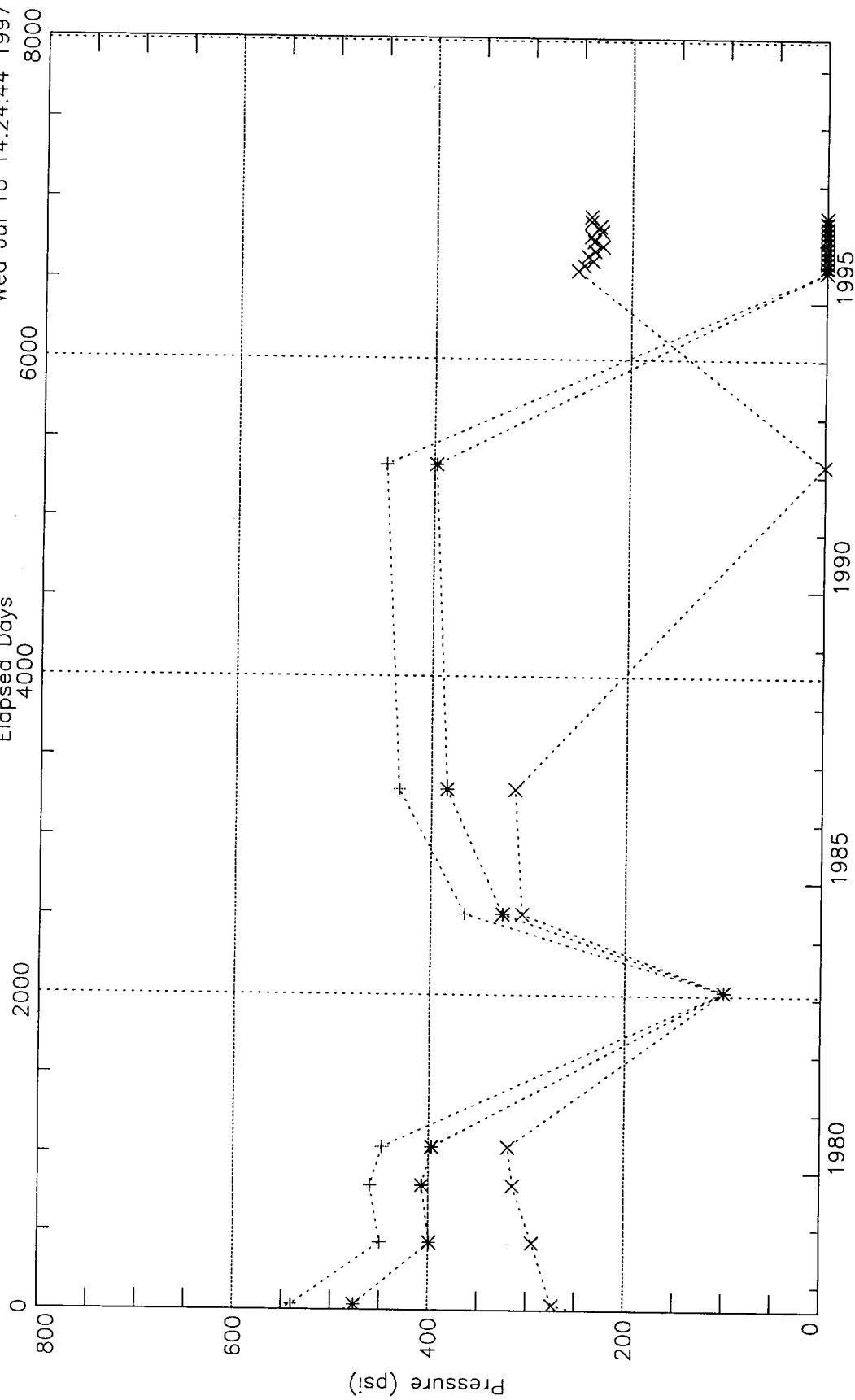
Operator: AMOCO PRODUCTION CO

Location: 4P 29N 9W

User: zrlq01
Owner: zrlq01

Single Well Gas3D

GUTIERREZ GAS COM 1-A
Wed Jul 16 14:24:44 1997



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

Date (Years)

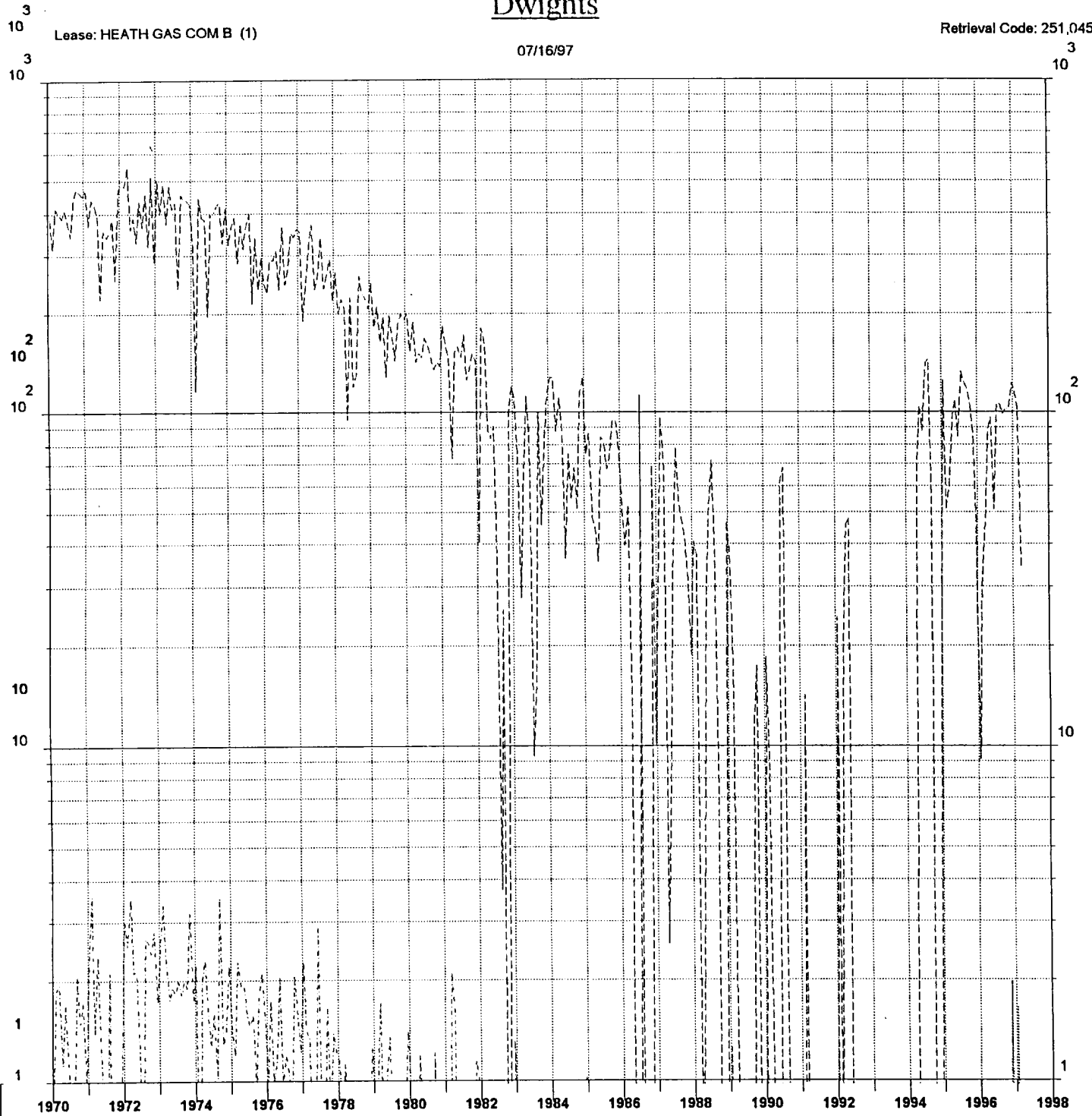
Well ID: 300452230300 604MVRD
Well Name: GUTIERREZ GAS COM A001P04
Operator: AMOCO PRODUCTION COMPANY

Dwights

Lease: HEATH GAS COM B (1)

Retrieval Code: 251,045,29

07/16/97



Oil (bbl/day)

County: SAN JUAN, NM

F.P. Date: 11/53

Gas (mcf/day)

Water (bbl/day)

Field: BLANCO (MESAVERDE) MV

Oil Cum: 15.97 mbbl

Reservoir: MESAVERDE

Gas Cum: 4042 mmcf

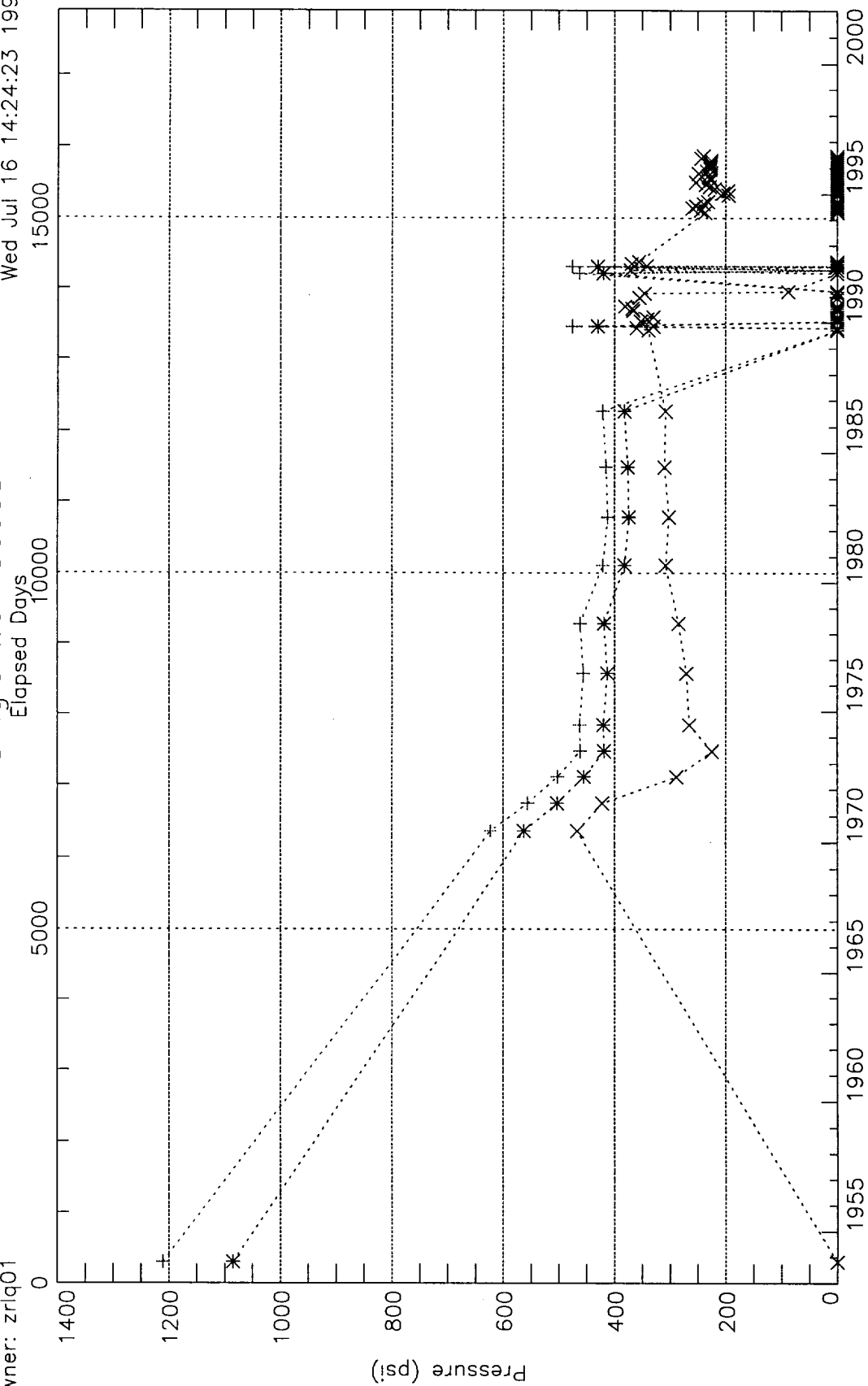
Operator: AMOCO PRODUCTION CO

Location: 9G 29N 9W

User: zrlq01
Owner: zrlq01

Single Well Gas3D

HEATH GAS UNIT B 1
Wed Jul 16 14:24:23 1997



Date (Years)

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

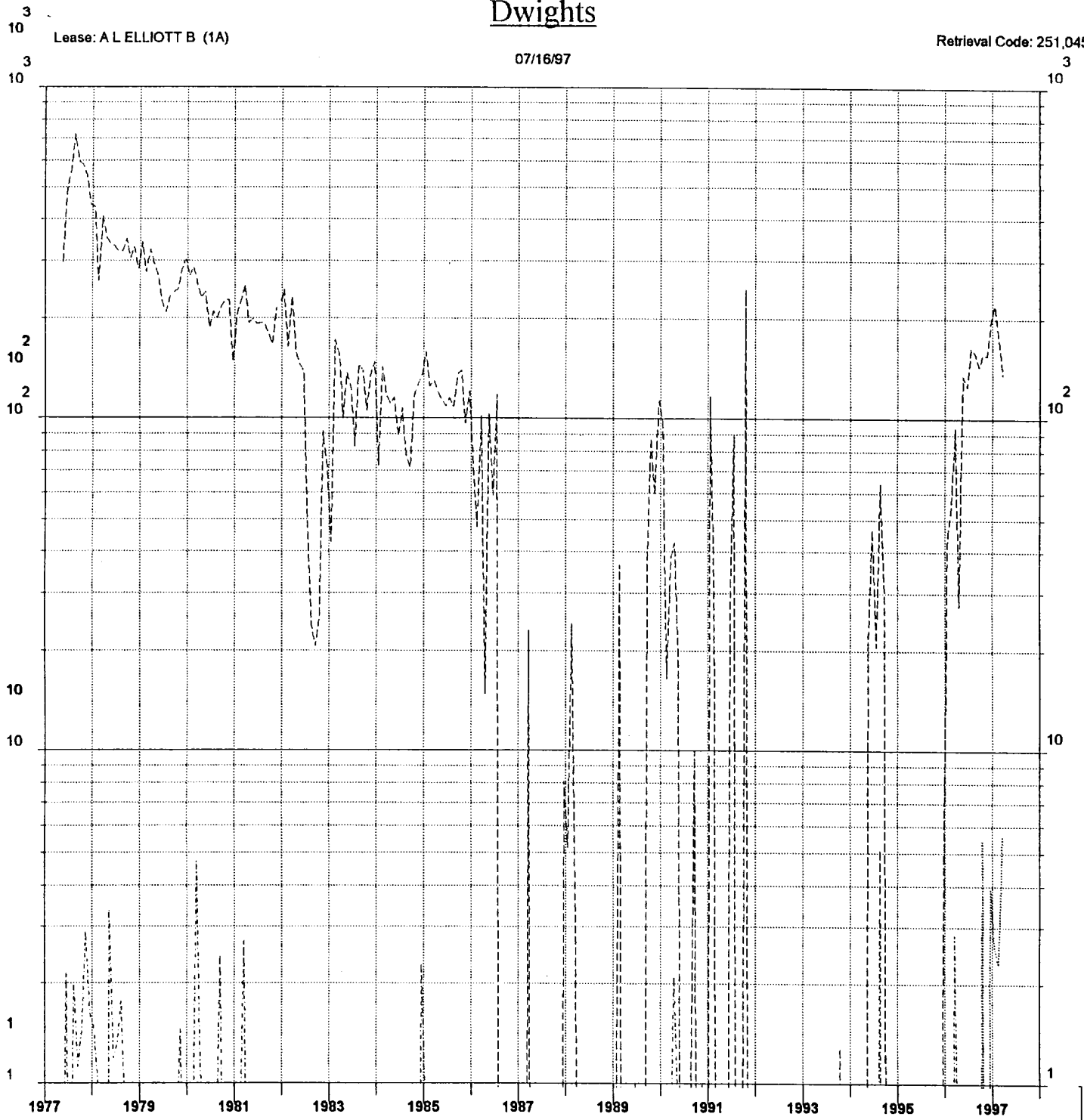
Well ID: 300450856100 604MVRD
Well Name: HEATH GAS COM /B/ 001G09
Operator: AMOCO PROD

Dwights

Lease: A L ELLIOTT B (1A)

07/16/97

Retrieval Code: 251,045,29



Oil (bbl/day)

County: SAN JUAN, NM

F.P. Date: 05/77

Gas (mcf/day)

Water (bbl/day)

Field: BLANCO (MESAVERDE) MV

Oil Cum: 2542 bbl

Reservoir: MESAVERDE

Gas Cum: 791.7 mmcf

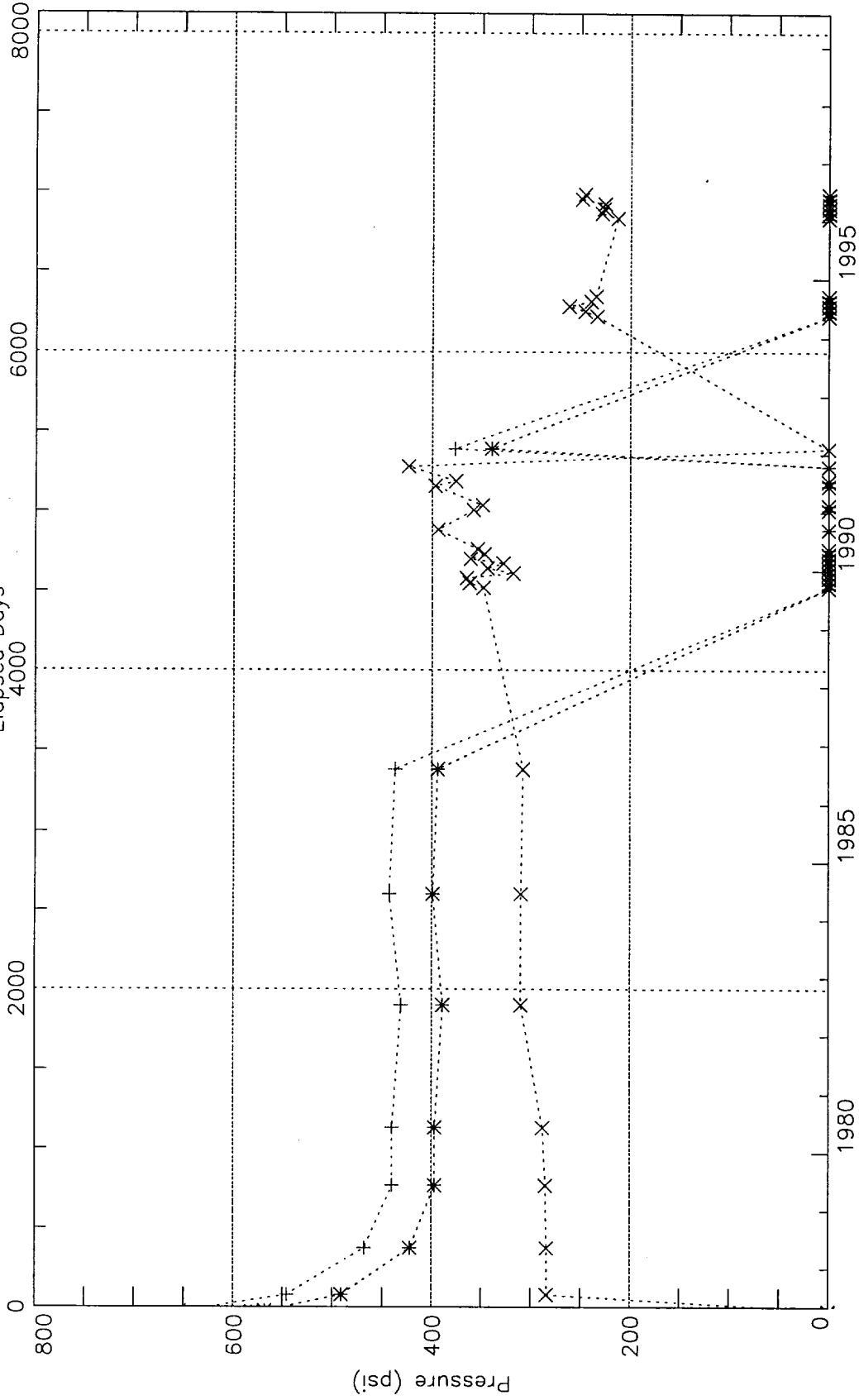
Operator: AMOCO PRODUCTION CO

Location: 10F 29N 9W

User: zrlq01
Owner: zrlq01

Single Well Gas3D

A L ELLIOTT-B 1-A
Wed Jul 16 14:24:50 1997



Date (Years)

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

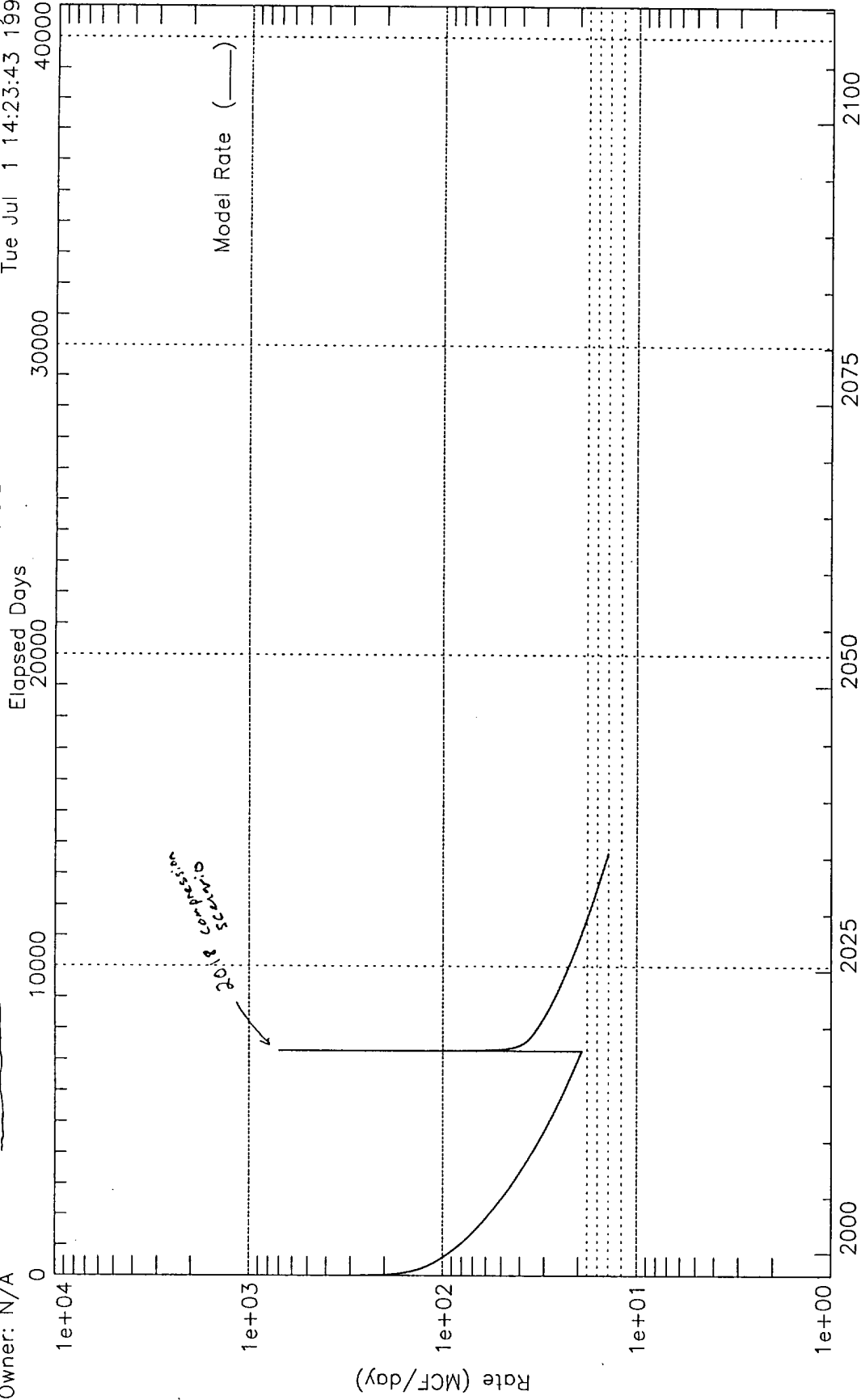
Well ID: 300452233500 604MVRD
Well Name: ELLIOTT, ANNIE L, /B/ A001F10
Operator: AMOCO PRODUCTION COMPANY

Recompletion (New well)

User: zrlq01
Owner: N/A

Multi-Well Gas3D

Prediction-Well 10 only
Tue Jul 1 14:23:43 1997



Date (Years)

Well ID: 3029n09w10nw 604MVRD

Well Name: Future Well

Operator: N/A

Est Cum Gas= 0.00 MMCF
Rem Res= 509.94 MMCF
EUR= 509.94 MMCF

Meter	Date	Volume	Oil	Water	Dry Mmbtu	Sat Mmbtu	Line	Diff	Tubing	Casing	Temp	Comp.	Run Time
94940	07/04/97	111.56	0.00	0.00	125.06	0.00	215.37	15.39	208.67	321.28	107.57		119
	07/05/97	111.56	0.00	0.00	125.06	0.00	215.37	15.39	208.67	321.28	107.57		119
	07/06/97	109.81	0.00	0.00	123.10	0.00	210.43	14.10	203.79	314.69	109.75		124
	07/07/97	74.57	0.00	0.00	83.59	0.00	203.11	17.34	202.90	325.97	109.88		79
	07/08/97	60.58	0.00	0.00	67.90	0.00	216.64	16.04	213.84	339.29	108.38		65
	07/09/97	58.06	0.00	0.00	65.08	0.00	216.85	15.86	214.02	345.82	109.23		64
	07/10/97	54.96	0.00	0.00	61.61	0.00	214.41	15.46	211.95	351.65	109.95		62
	07/11/97	53.72	0.00	0.00	60.22	0.00	216.61	15.10	214.05	355.64	110.37		61
	07/12/97	52.73	0.00	0.00	59.11	0.00	212.69	15.25	210.10	359.52	108.94		60
	07/13/97	50.64	0.00	0.00	56.77	0.00	211.98	15.16	209.36	362.82	108.69		58
	07/14/97	51.24	0.00	0.00	57.44	0.00	211.45	15.27	209.47	365.39	109.37		58
	07/15/97	46.13	0.00	0.00	51.72	0.00	206.26	14.84	204.86	370.11	92.41		50
	07/16/97	49.72	0.00	0.00	55.73	0.00	204.19	15.13	203.21	372.47	82.60		50
	07/17/97	44.39	0.00	0.00	49.76	0.00	213.80	13.93	212.51	375.92	81.98		53
	07/18/97	43.79	0.00	0.00	49.09	0.00	216.05	13.52	214.79	379.18	77.81		51
	07/19/97	49.14	0.00	0.00	55.09	0.00	222.92	12.98	222.79	378.13	78.58		60
	07/20/97	45.57	0.00	0.00	51.09	0.00	213.17	13.97	212.45	381.42	79.16		52
	07/21/97	45.34	0.00	0.00	50.82	0.00	206.86	14.25	206.13	383.66	77.53		52
	07/22/97	41.94	0.00	0.00	47.02	0.00	209.32	13.32	208.47	386.50	77.57		49
Totals:		3313.30	0.00	0.00	3714.21	0.00						0.00	36642.0

Averages:

 $Q_{avg} = 63 \text{ MCFD}$ $Q_{current} = 42 \text{ MCFD}$

Meter	Date	Volume	Oil	Water	Dry Mmbtu	Sat Mmbtu	Line	Diff	Tubing	Casing	Temp	Comp.	Run Time
94940	06/01/97	58.85	0.00	0.00	65.97	0.00	194.87	14.24	191.67	409.45	103.01		698
	06/02/97	41.15	0.00	0.00	46.13	0.00	193.73	14.56	192.66	415.67	103.05		495
	06/03/97	38.54	0.00	0.00	43.21	0.00	203.34	14.03	202.55	417.62	103.42		467
	06/04/97	42.48	0.00	0.00	47.63	0.00	202.35	12.71	201.25	416.60	106.44		536
	06/05/97	39.37	0.00	0.00	44.14	0.00	204.48	13.59	203.87	417.59	105.18		477
	06/06/97	36.11	0.00	0.00	40.48	0.00	210.91	12.28	212.12	418.62	95.00		513
	06/07/97	50.54	0.00	0.00	56.66	0.00	220.32	13.01	218.27	412.88	88.44		593
	06/08/97	43.78	0.00	0.00	49.08	0.00	219.55	12.83	217.88	413.86	85.03		522
	06/09/97	41.17	0.00	0.00	46.15	0.00	217.93	13.20	216.09	414.76	94.41		494
	06/10/97	43.07	0.00	0.00	48.28	0.00	215.65	12.97	214.60	414.50	100.82		532
	06/11/97	47.82	0.00	0.00	53.61	0.00	220.71	13.72	218.97	412.78	101.96		561
	06/12/97	53.05	0.00	0.00	59.47	0.00	212.49	13.81	213.51	410.57	97.37		680
	06/13/97	44.35	0.00	0.00	49.72	0.00	204.92	13.72	203.29	410.48	98.79		538
	06/14/97	38.59	0.00	0.00	43.26	0.00	208.35	13.80	207.34	415.15	100.98		464
	06/15/97	44.52	0.00	0.00	49.90	0.00	212.56	13.62	210.71	413.55	96.10		534
	06/16/97	6.19	0.00	0.00	6.94	0.00	211.19	13.36	257.77	433.93	81.27		72
	06/17/97	0.00	0.00	0.00	0.00	0.00	281.10	0.00	308.77	448.68	102.22		0
	06/18/97	0.00	0.00	0.00	0.00	0.00	263.90	0.00	338.54	455.80	106.06		0
	06/19/97	0.00	0.00	0.00	0.00	0.00	272.85	0.00	371.46	461.42	108.72		0
	06/20/97	0.00	0.00	0.00	0.00	0.00	280.47	0.00	406.10	466.02	106.00		0
	06/21/97	118.20	0.00	0.00	132.50	0.00	208.82	34.22	339.69	431.89	111.44		860
	06/22/97	149.14	0.00	0.00	167.18	0.00	225.26	20.97	226.73	370.79	105.26		1330
	06/23/97	138.58	0.00	0.00	155.35	0.00	219.65	21.00	218.15	355.85	108.14		1260
	06/24/97	125.23	0.00	0.00	140.38	0.00	221.12	15.57	213.74	348.26	107.00		1310
	06/25/97	125.22	0.00	0.00	140.37	0.00	213.20	15.45	205.23	339.83	109.32		1340
	06/26/97	115.64	0.00	0.00	129.63	0.00	220.15	13.46	212.41	335.25	109.07		1310
	06/27/97	124.65	0.00	0.00	139.73	0.00	224.80	14.83	216.08	326.37	109.04		1330
	06/28/97	123.57	0.00	0.00	138.52	0.00	221.68	14.82	212.02	316.08	109.58		1330
	06/29/97	109.11	0.00	0.00	122.32	0.00	220.98	12.58	208.71	319.11	109.61		1270
	06/30/97	100.52	0.00	0.00	112.69	0.00	217.70	12.38	208.59	321.71	109.46		1200
	07/01/97	91.84	0.00	0.00	102.96	0.00	213.16	15.48	208.01	326.40	107.60		1000
	07/02/97	76.08	0.00	0.00	85.28	0.00	221.33	16.00	220.95	335.13	109.32		810
	07/03/97	90.48	0.00	0.00	101.43	0.00	241.33	13.70	244.04	330.92	106.55		900

ROYALTY INTEREST OWNERS
Names and Addresses

617000 00 073-0466080
AMOCO PRODUCTION COMPANY
(918) 581-4800
P O BOX 591
TULSA

OK 74102-0591

593689 00 085-0208598
ELLIOTT OIL COMPANY
PO BOX 1355
ROSWELL

NM 88202-1355

710000 01 084-0848646
MINERALS MANAGEMENT SERVICE
ROYALTY MANAGEMENT PROGRAM
PO BOX 5810 TA
DENVER

CO 80217-5810

140998 00 562-68-2116
EDWINA PETERSEN 1980 TRUST
EDWINA PETERSEN TRUSTEE
704 REFUGIO RD
SANTA YNEZ

CA 93460-9701

333755 00 083-0262216
SAN JUAN PARTNERSHIP
C/O TRUE OIL CO
PO BOX 2360
CASPER

WY 82602-2360

141783 00 560-48-1739
JO ANNE TRELOAR
4951 PARADISE RD
SANTA BARBARA

CA 93105-9708