

DATE IN 3/21/00	SUSPENSE 4/10/00	ENGINEER DC	LOGGED KV	TYPE DHC
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -

2706

ADMINISTRATIVE APPLICATION COVERSHEET

THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS

Application Acronyms:

[NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location]
[DD-Directional Drilling] [SD-Simultaneous Dedication]
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

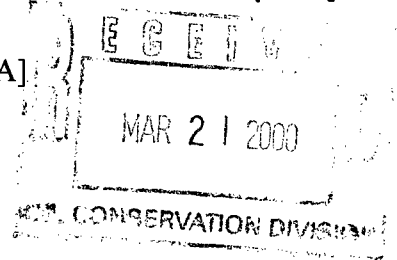
[1] TYPE OF APPLICATION - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Directional Drilling
_ NSL _ NSP _ DD _ SD

Check One Only for [B] and [C]

[B] Commingling - Storage - Measurement
☒ DHC _ CTB _ PLC _ PC _ OLS _ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
_ WFX _ PMX _ SWD _ IPI _ EOR _ PPR



[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or _ Does Not Apply

- [A] _ Working, Royalty or Overriding Royalty Interest Owners
- [B] _ Offset Operators, Leaseholders or Surface Owner
- [C] _ Application is One Which Requires Published Legal Notice
- [D] _ Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E] _ For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F] _ Waivers are Attached

[3] INFORMATION / DATA SUBMITTED IS COMPLETE - Statement of Understanding

I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. I understand that any omission of data, information or notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with supervisory capacity.

Mary Corley
Print or Type Name

Mary Corley
Signature

Sr. Business Analyst
Title

03/10/2000
Date

Amoco Exploration & Production
501 Westlake Park Blvd.
Post Office Box 3092
Houston, TX 77079

March 10, 2000

**Ms. Lori Wrotenberg, Director
New Mexico Oil Conservation Division
2040 S. Pacheco Street
P. O. Box 6429
Santa Fe, NM 87505**

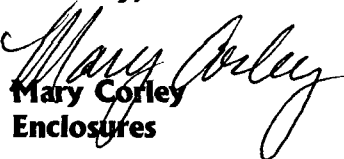
**Application for Exception to Rule 303-A- Downhole Commingling
Gutierrez Gas Com B No. 1E
Unit I Section 04-T29N-R09W
Blanco Mesaverde and Basin Dakota Pools
San Juan County, New Mexico**

Enclosed please find an administrative application form (C-107-A) and attachments for downhole commingling for the captioned well. All working, overriding and royalty interests are identical in both zones, therefore, no notification of this application is required to be submitted via certified mail.

We respectfully request that this application for downhole commingling be approved within 20 days after the receipt of the application as all ownership is common in the zones to be commingled, waste will not occur, and correlative rights will not be violated.

Should you have questions regarding this application, do not hesitate to call me at 281-366-4491.

Sincerely,


**Mary Corley
Enclosures**

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

James Dean

Well File

PRODUCTION ALLOCATION RECOMMENDATION
Gutierrez Gas Com B No. 1 E

Production is proposed to be allocated based on the subtraction method using the future projection of production for production from the Dakota. That production shall serve as a base for production subtracted from total production for the commingled well. The balance of the production will be attributed to the Blanco Mesaverde. Attached is the future production decline estimate for the Dakota.

WORKING, OVERRIDING, and ROYALTY INTEREST OWNERS NOTIFICATION
Gutierrez Gas Com B No. 1 E

All of the working, overriding, and royalty interest are identical in both proposed commingled zones.

DISTRICT I
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

DISTRICT II
811 South First St., Artesia, NM 88210-2835

2040 S. Pacheco
Santa Fe, New Mexico 87505-6429

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

OIL CONSERVATION DIVISION
APPLICATION FOR DOWNHOLE COMMINGLING

APPROVAL PROCESS:

☒ Administrative ☐ Hearing

EXISTING WELLBORE
☒ YES ☐ NO

Amoco Production Company

PO Box 3092 Houston, TX 77253-3092

Operator Gutierrez Gas Com B	Well No. 1E	Address I 4-29N-09W	County San Juan
Lease		Unit Ltr. - Sec Twp - Rge	

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. **000778** Property Code **000623** API NO. **30-045-23752** 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)	3829' - 4700' EST		6572' - 6778'
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) 395 psig (est) b. (Original) 2007 psig (est)	a. b.	a. 704 psig (est) b. 2935 psig (est)
6. Oil Gravity (° API) or Gas BTU Content	1208 BTU		1167 BTU
7. Producing or Shut-In?	New zone		Producing
Production Marginal? (yes or no)	YES		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: Rates:	Date: Rates:	Date: Rates:
• If Producing, give date and oil/gas/water rates of recent test (within 60 days)	Date: Rates:	Date: Rates:	3/04/00 50 MCFD 0 BCPD 0 BWPD
8. Fixed Percentage Allocation Formula -% for each zone	Oil: Gas %	Oil: Gas %	Oil: Gas %

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?
If not, have all working, overriding, and royalty interests been notified by certified mail?
Have all offset operators been given written notice of the proposed downhole commingling?

☒ Yes ☐ No
☐ Yes ☐ No
☒ 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 NO FEDERAL OR STATE LANDS

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. SEE ATTACHED
 - * 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 Mary Corley TITLE **Sr. Business Analyst** DATE **3/10/00**
TYPE OR PRINT NAME **Mary Corley** TELEPHONE NO. (**281**) **366-4491**

Gutierrez Gas Com B 1E Pressure Data

DK	0.08	PC	0.04
MV	0.07	FT	0.04
		CK	0.04

WELL NAME: Gutierrez Gas Com B 1E

FORMATION: DK

SURFACE PRESS: 170

PERFS TOP: 6572 (6572 + 6778) / 2 = 6675 Mid Perf

BOTTOM: 6778 6675 x 0.08 = 534

534 + 170 = 704 **Bottom Hole Pressure**

Initial Bottom Hole Pressure= 2935 est.

WELL NAME: Gutierrez Gas Com 1A

FORMATION: MV

SURFACE PRESS: 96

PERFS TOP: 3880 (3880 + 4684) / 2 = 4282 Mid Perf

BOTTOM: 4684 4282 x 0.07 = 300

299.74 + 96 = 396 **Bottom Hole Pressure**

Initial Bottom Hole Pressure= 2028 est.

WELL NAME: Jaquez Gas Com B 1

FORMATION: MV

SURFACE PRESS: 99

PERFS TOP: 3830 (3830 + 4584) / 2 = 4207 Mid Perf

BOTTOM: 4584 4207 x 0.07 = 294

294.49 + 99 = 393 **Bottom Hole Pressure**

Initial Bottom Hole Pressure= 1986 est.

WELL NAME: Gutierrez Gas Com B 1E

FORMATION: MV

Initial Bottom Hole Pressure: (2028 + 1986) / 2 = 2007

Bottom Hole Pressure: (396 + 393) / 2 = 395 est.

Gutierrez GC 1A + Jaquez GC B 1 BBLS (297 + 195) / 2 = 246 est. annual production

Gutierrez GC 1A + Jaquez GC B 1 MCF (58284 + 55128) / 2 = 56706 est. annual production

ALLOCATION: SUBTRACTION METHOD

Gutierrez Gas Com B 1E

Future Production Decline Estimate

Month	Gas Volume
Jan-2000	50
Feb-2000	50
Mar-2000	50
Apr-2000	50
May-2000	50
Jun-2000	50
Jul-2000	49
Aug-2000	49
Sep-2000	49
Oct-2000	49
Nov-2000	49
Dec-2000	49
Jan-2001	49
Feb-2001	48
Mar-2001	48
Apr-2001	48
May-2001	48
Jun-2001	48
Jul-2001	48
Aug-2001	48
Sep-2001	47
Oct-2001	47
Nov-2001	47
Dec-2001	47
Jan-2002	47
Feb-2002	47
Mar-2002	47
Apr-2002	46
May-2002	46
Jun-2002	46
Jul-2002	46
Aug-2002	46
Sep-2002	46
Oct-2002	46
Nov-2002	45
Dec-2002	45

Month	Gas Volume
Jan-2003	45
Feb-2003	45
Mar-2003	45
Apr-2003	45
May-2003	45
Jun-2003	44
Jul-2003	44
Aug-2003	44
Sep-2003	44
Oct-2003	44
Nov-2003	44
Dec-2003	44
Jan-2004	44
Feb-2004	43
Mar-2004	43
Apr-2004	43
May-2004	43
Jun-2004	43
Jul-2004	43
Aug-2004	43
Sep-2004	43
Oct-2004	42
Nov-2004	42
Dec-2004	42
Jan-2005	42
Feb-2005	42
Mar-2005	42
Apr-2005	42
May-2005	42
Jun-2005	41
Jul-2005	41
Aug-2005	41
Sep-2005	41
Oct-2005	41
Nov-2005	41
Dec-2005	41

Month	Gas Volume
Jan-2006	41
Feb-2006	40
Mar-2006	40
Apr-2006	40
May-2006	40
Jun-2006	40
Jul-2006	40
Aug-2006	40
Sep-2006	40
Oct-2006	39
Nov-2006	39
Dec-2006	39
Jan-2007	39
Feb-2007	39
Mar-2007	39
Apr-2007	39
May-2007	39
Jun-2007	38
Jul-2007	38
Aug-2007	38
Sep-2007	38
Oct-2007	38
Nov-2007	38
Dec-2007	38
Jan-2008	38
Feb-2008	38
Mar-2008	37
Apr-2008	37
May-2008	37
Jun-2008	37
Jul-2008	37
Aug-2008	37
Sep-2008	37
Oct-2008	37
Nov-2008	37
Dec-2008	36

Month	Gas Volume
Jan-2009	36
Feb-2009	36
Mar-2009	36
Apr-2009	36
May-2009	36
Jun-2009	36
Jul-2009	36
Aug-2009	36
Sep-2009	35
Oct-2009	35
Nov-2009	35
Dec-2009	35
Jan-2010	35
Feb-2010	35
Mar-2010	35
Apr-2010	35
May-2010	35
Jun-2010	35
Jul-2010	34
Aug-2010	34
Sep-2010	34
Oct-2010	34
Nov-2010	34
Dec-2010	34
Jan-2011	34
Feb-2011	34
Mar-2011	34
Apr-2011	34
May-2011	33
Jun-2011	33
Jul-2011	33
Aug-2011	33
Sep-2011	33
Oct-2011	33
Nov-2011	33
Dec-2011	33

Gutierrez Gas Com B 1E

Future Production Decline Estimate

Month	Gas Volume
Jan-2012	33
Feb-2012	33
Mar-2012	32
Apr-2012	32
May-2012	32
Jun-2012	32
Jul-2012	32
Aug-2012	32
Sep-2012	32
Oct-2012	32
Nov-2012	32
Dec-2012	32
Jan-2013	31
Feb-2013	31
Mar-2013	31
Apr-2013	31
May-2013	31
Jun-2013	31
Jul-2013	31
Aug-2013	31
Sep-2013	31
Oct-2013	31
Nov-2013	31
Dec-2013	30
Jan-2014	30
Feb-2014	30
Mar-2014	30
Apr-2014	30
May-2014	30
Jun-2014	30
Jul-2014	30
Aug-2014	30
Sep-2014	30
Oct-2014	30
Nov-2014	29
Dec-2014	29

Month	Gas Volume
Jan-2015	29
Feb-2015	29
Mar-2015	29
Apr-2015	29
May-2015	29
Jun-2015	29
Jul-2015	29
Aug-2015	29
Sep-2015	29
Oct-2015	29
Nov-2015	28
Dec-2015	28
Jan-2016	28
Feb-2016	28
Mar-2016	28
Apr-2016	28
May-2016	28
Jun-2016	28
Jul-2016	28
Aug-2016	28
Sep-2016	28
Oct-2016	27
Nov-2016	27
Dec-2016	27
Jan-2017	27
Feb-2017	27
Mar-2017	27
Apr-2017	27
May-2017	27
Jun-2017	27
Jul-2017	27
Aug-2017	27
Sep-2017	27
Oct-2017	27
Nov-2017	26
Dec-2017	26

Month	Gas Volume
Jan-2018	26
Feb-2018	26
Mar-2018	26
Apr-2018	26
May-2018	26
Jun-2018	26
Jul-2018	25
Aug-2018	25
Sep-2018	25
Oct-2018	25
Nov-2018	25
Dec-2018	25
Jan-2019	25
Feb-2019	25
Mar-2019	24
Apr-2019	24
May-2019	24
Jun-2019	24
Jul-2019	24
Aug-2019	24
Sep-2019	24
Oct-2019	24
Nov-2019	23
Dec-2019	23
Jan-2020	23
Feb-2020	23
Mar-2020	23
Apr-2020	23
May-2020	23
Jun-2020	23
Jul-2020	23
Aug-2020	22
Sep-2020	22
Oct-2020	22
Nov-2020	22
Dec-2020	22

Month	Gas Volume
Jan-2021	22
Feb-2021	22
Mar-2021	22
Apr-2021	22
May-2021	21
Jun-2021	21
Jul-2021	21
Aug-2021	21
Sep-2021	21
Oct-2021	21
Nov-2021	21
Dec-2021	21
Jan-2022	21
Feb-2022	21
Mar-2022	20
Apr-2022	20
May-2022	20
Jun-2022	20
Jul-2022	20
Aug-2022	20
Sep-2022	20
Oct-2022	20
Nov-2022	20
Dec-2022	20
Jan-2023	19
Feb-2023	19
Mar-2023	19
Apr-2023	19
May-2023	19
Jun-2023	19
Jul-2023	19
Aug-2023	19
Sep-2023	19
Oct-2023	19
Nov-2023	18
Dec-2023	18

Gutierrez Gas Com B 1E

Future Production Decline Estimate

Month	Gas Volume
Jan-2024	18
Feb-2024	18
Mar-2024	18
Apr-2024	18
May-2024	18
Jun-2024	18
Jul-2024	18
Aug-2024	18
Sep-2024	18
Oct-2024	17
Nov-2024	17
Dec-2024	17
Jan-2025	17
Feb-2025	17
Mar-2025	17
Apr-2025	17
May-2025	17
Jun-2025	17
Jul-2025	17
Aug-2025	17
Sep-2025	17
Oct-2025	16
Nov-2025	16
Dec-2025	16
Jan-2026	16
Feb-2026	16
Mar-2026	16
Apr-2026	16
May-2026	16
Jun-2026	16
Jul-2026	16
Aug-2026	16
Sep-2026	16
Oct-2026	15
Nov-2026	15
Dec-2026	15

Month	Gas Volume
Jan-2027	15
Feb-2027	15
Mar-2027	15
Apr-2027	15
May-2027	15
Jun-2027	15
Jul-2027	15
Aug-2027	15
Sep-2027	15
Oct-2027	15
Nov-2027	15
Dec-2027	14
Jan-2028	14
Feb-2028	14
Mar-2028	14
Apr-2028	14
May-2028	14
Jun-2028	14
Jul-2028	14
Aug-2028	14
Sep-2028	14
Oct-2028	14
Nov-2028	14
Dec-2028	14
Jan-2029	14
Feb-2029	13
Mar-2029	13
Apr-2029	13
May-2029	13
Jun-2029	13
Jul-2029	13
Aug-2029	13
Sep-2029	13
Oct-2029	13
Nov-2029	13
Dec-2029	13

Month	Gas Volume
Jan-2030	13
Feb-2030	13
Mar-2030	13
Apr-2030	13
May-2030	12
Jun-2030	12
Jul-2030	12
Aug-2030	12
Sep-2030	12
Oct-2030	12
Nov-2030	12
Dec-2030	12
Jan-2031	12
Feb-2031	12
Mar-2031	12
Apr-2031	12
May-2031	12
Jun-2031	12
Jul-2031	12
Aug-2031	12
Sep-2031	11
Oct-2031	11
Nov-2031	11
Dec-2031	11
Jan-2032	11
Feb-2032	11
Mar-2032	11
Apr-2032	11
May-2032	11
Jun-2032	11
Jul-2032	11
Aug-2032	11
Sep-2032	11
Oct-2032	11
Nov-2032	11
Dec-2032	11

Month	Gas Volume
Jan-2033	11
Feb-2033	11
Mar-2033	10
Apr-2033	10
May-2033	10
Jun-2033	10
Jul-2033	10
Aug-2033	10
Sep-2033	10
Oct-2033	10
Nov-2033	10
Dec-2033	10
Jan-2034	10
Feb-2034	10
Mar-2034	10
Apr-2034	10
May-2034	10
Jun-2034	10
Jul-2034	10
Aug-2034	10
Sep-2034	10
Oct-2034	10
Nov-2034	9
Dec-2034	9
Jan-2035	9
Feb-2035	9
Mar-2035	9
Apr-2035	9
May-2035	9
Jun-2035	9
Jul-2035	9
Aug-2035	9
Sep-2035	9
Oct-2035	9
Nov-2035	9
Dec-2035	9

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 30-045-23752	Pool Code 71599 & 72319	Pool Name Basin Dakota & Blanco Mesaverde
Property Code 000623	Property Name Gutierrez Gas Com B	Well Number 1E
OGRID No. 000778	Operator Name AMOCO PRODUCTION COMPANY	Elevation 5603'

Surface Location

UL or lot no. UNIT I	Section 4	Township 29N	Range 9W	Lot. Idn	Feet from the 1670'	North/South Line SOUTH	Feet from the 790'	East/West Line EAST	County San Juan
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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: 319.64		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>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</i>
	Signature
	Printed Name MARY CORLEY
	Position Sr. Business Analyst
	Date 03/09/2000
	SURVEY CERTIFICATION
	<i>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.</i>
	08/21/1979
	Date of Survey
	Signature & Seal of Professional Surveyor
	Fred B. Kerr, Jr.
	Certificate No. 3950

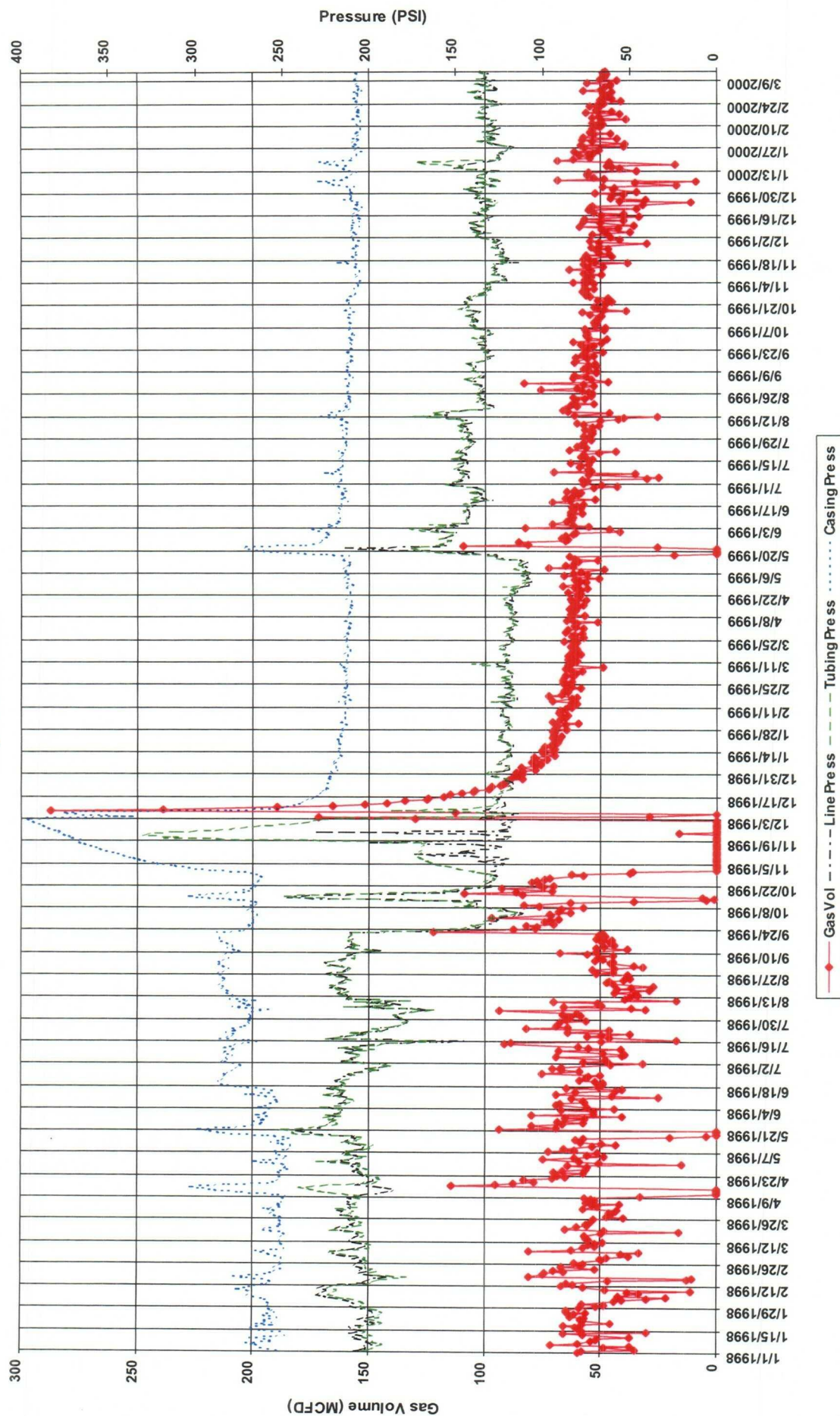
Wellname: GUTIERREZ GC B 001E-DK

Flacwell: 97590401

API: 300452375200

Amoco - OIDB/Synergy Data

Daily Well Production



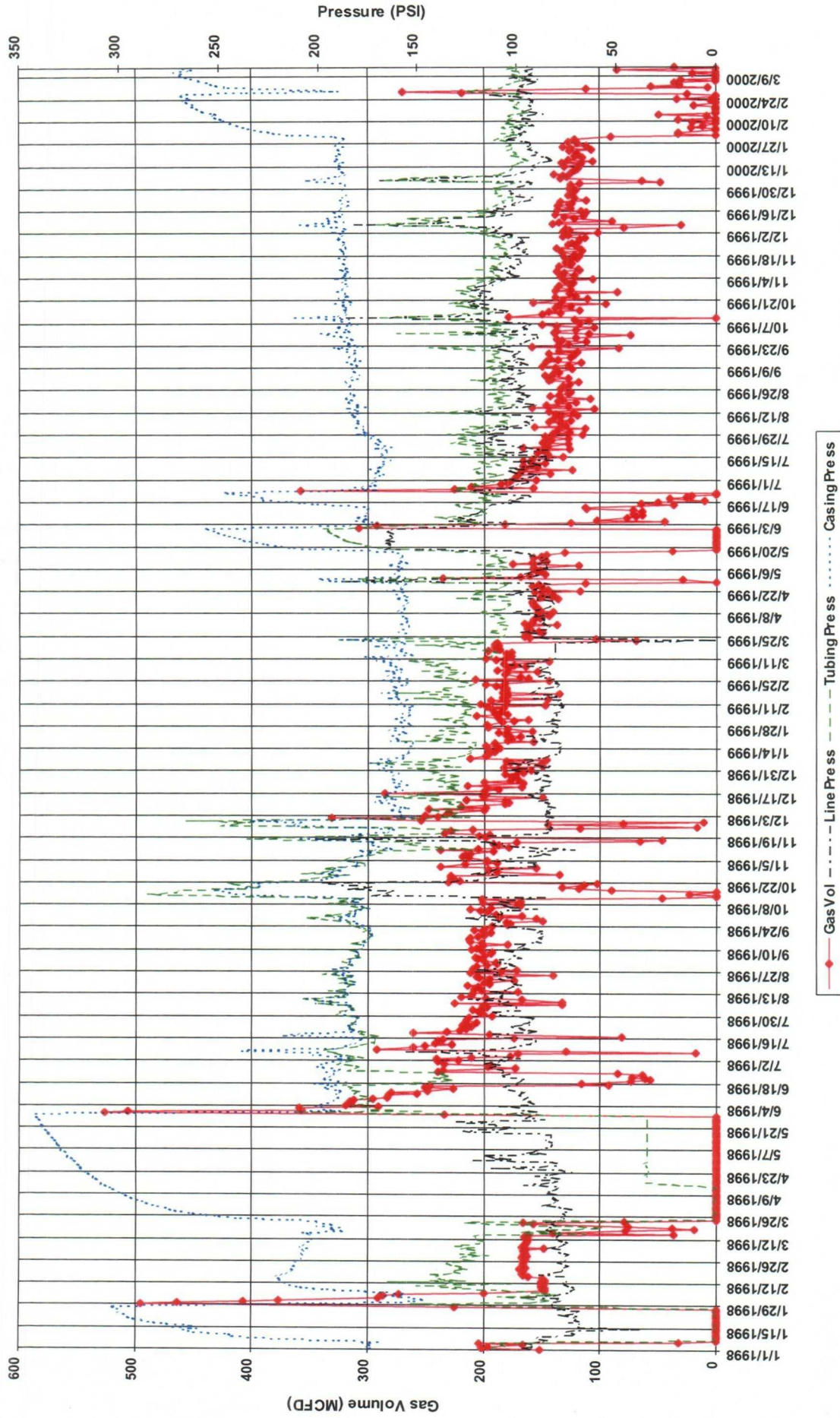
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Flacwell: 92415901

API: 300450867600

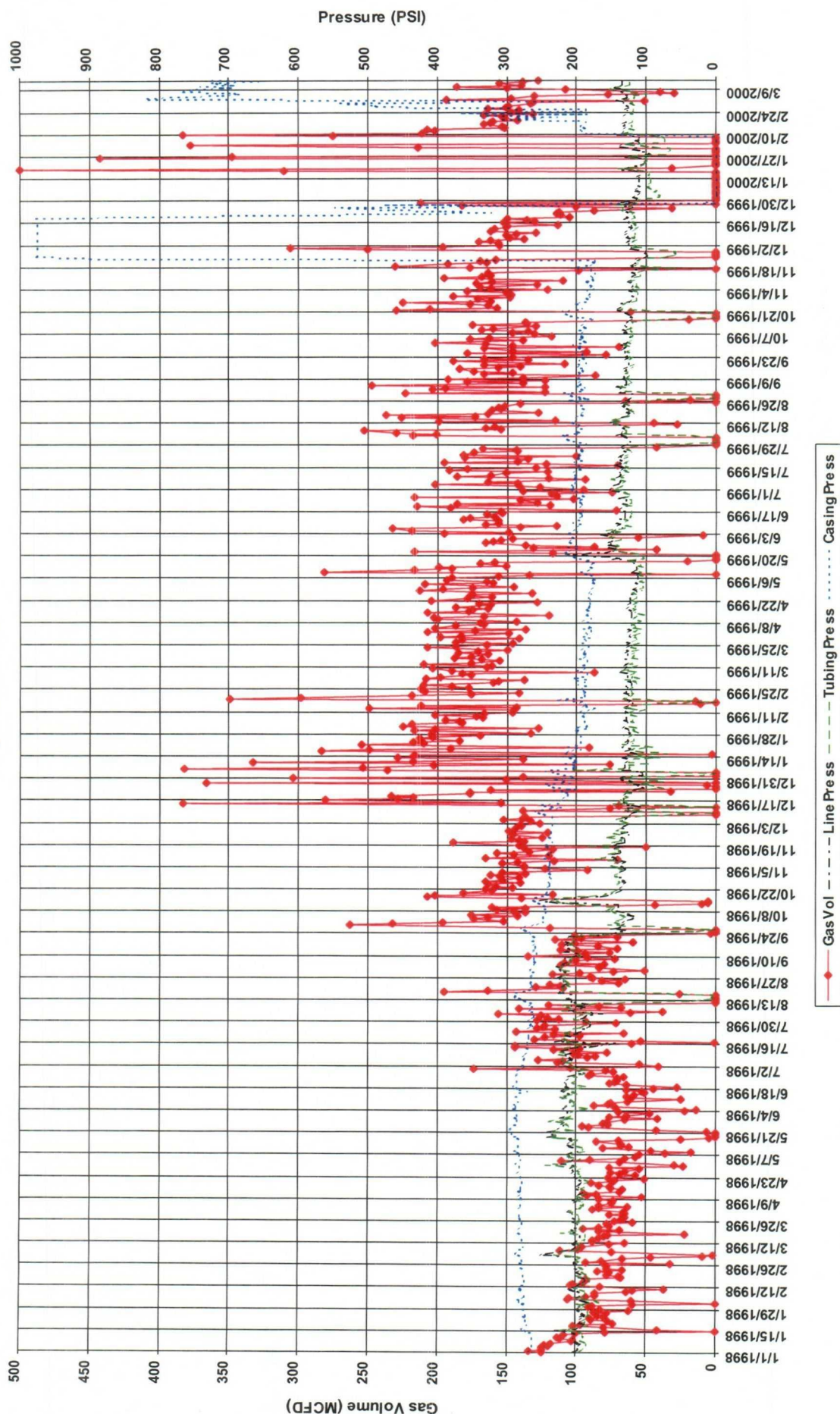
Amoco - OIDB/Synergy Data

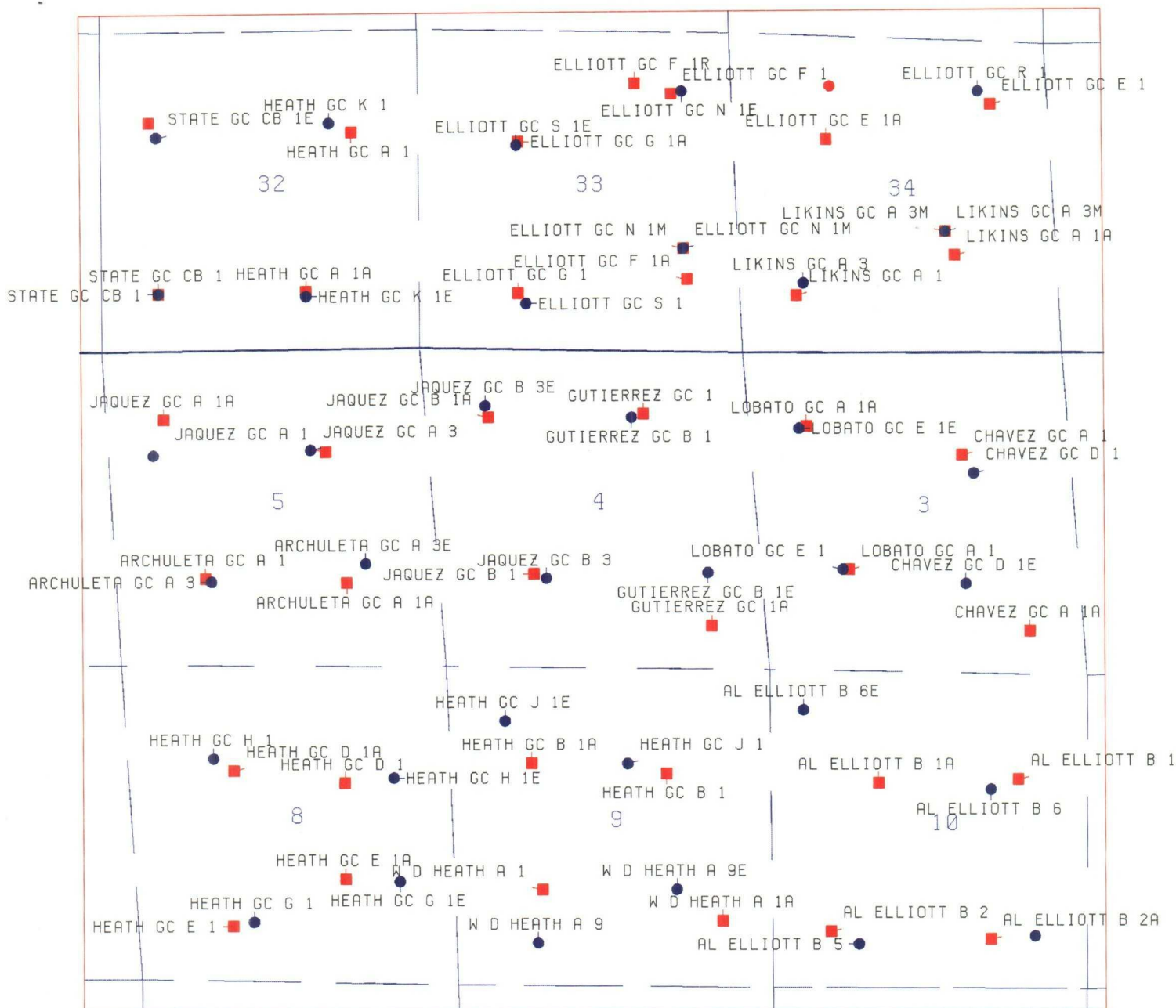
Daily Well Production



Wellname: GUTIERREZ GC 001A-MV Flacwell: 97357401 API: 300452230300 Amoco - OIDB/Synergy Data

Daily Well Production





■ *Mesaverde*
● *Dakota*

AMOCO PRODUCTION COMPANY
HOUSTON, TX

WESTERN GAS BUSINESS UNIT

MESAVERDE & DAKOTA WELLS
T29N R9W SEC. 4

[REF. GUTIERREZ GAS COM B 1E]

SCALE 1"=2500'

DRAWN M. J. RITZ

DATE 10-MAR-2000

DRAWING