

DATE IN 2/7/00	SUSPENSE 2/28/00	ENGINEER DC	LOGGED KN	TYPE DHC
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

2661

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.

Print or Type Name

Mary Corley

Signature

Sr. Business Analyst

Title

02/03/2000

Date



Amoco Exploration & Production

501 Westlake Park Blvd.
Post Office Box 3092
Houston, TX 77079



February 3, 2000

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

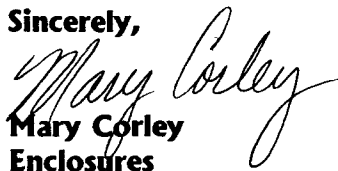
**Application for Exception to Rule 303-A- Downhole Commingling
Day No. 4E
Unit N Section 8-T29N-R8W
Blanco Mesaverde and Basin Dakota Pools
San Juan County, New Mexico**

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**

**Bureau of Land Management
1235 La Plata Hwy.
Farmington, NM 87401**

James Dean

Well File

PRODUCTION ALLOCATION RECOMMENDATION

Day No. 4E

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

Day No. 4E

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	Day	4E	Address M 8-29N-08W	San Juan
Lease	Well No.	Unit Ltr. - Sec Twp - Rge	County	

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 000778 Property Code 000417 API NO. 30-045-25323 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)	4614' - 5318' EST		7300' - 7535'
3. Type of production (Oil or Gas)	Gas		Gas
4. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing
5. Bottomhole Pressure	(Current) 562 psig (est)	a.	a. 925 psig
Oil Zones - Artificial Lift:			
Gas & Oil - Flowing:	(Original) 2353 psig (est)	b.	b. 3263 psig
All Gas Zones:			
Estimated or Measured Original			
6. Oil Gravity (° API) or Gas BTU Content	BTU 1260		BTU 1131
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	Date: Rates:	Date: Rates:	Date: Rates:
Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data			
• If Producing, give date and oil/gas/water rates of recent test (within 60 days)	Date: Rates:	Date: Rates:	Date: Rates: 1/8/2000 70 MCFD 0 BCFD 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? ☒ 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 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 2/3/2000
TYPE OR PRINT NAME Mary Corley TELEPHONE NO. (281) 366-4491

State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102

Revised October 18, 1994

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

OIL CONSERVATION DIVISION

2040 South Pacheco

Santa Fe, New Mexico 87505

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-045-25323	Pool Code 71599 & 72319	Pool Name Basin Dakota & Blanco Mesaverde
Property Code 000417	Property Name Day	Well Number 4E
OGRID No. 000778	Operator Name AMOCO PRODUCTION COMPANY	Elevation 6350' GR

Surface Location

UL or lot no. UNIT N	Section 8	Township 29N	Range 8W	Lot. Idn	Feet from the 845'	North/South Line SOUTH	Feet from the 2175'	East/West Line WEST	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: 311.91		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	
	Printed Name	
	Position Sr. Business Analyst	
Date 02/03/2000		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 07/15/1981		Signature & Seal of Professional Surveyor
Certificate No. 3950		

Day # 4E Pressure Data

DK	0.08	PC	0.04
MV	0.07	FT	0.04
		CK	0.04

WELL NAME: **Day 4E**

FORMATION: **DK**

SURFACE PRESS: **332**

PERFS TOP: **7300**

BOTTOM: **7535**

$$(7300 + 7535) / 2 = 7418 \text{ Mid Perf}$$

$$7417.5 \times 0.08 = 593$$

$$593.4 + 332 = \boxed{925} \text{ Bottom Hole Pressure}$$

Initial Bottom Hole Pressure= **3263** est.

WELL NAME: **Day B 4**

FORMATION: **MV**

SURFACE PRESS: **238**

PERFS TOP: **4443**

BOTTOM: **5254**

$$(4443 + 5254) / 2 = 4849 \text{ Mid Perf}$$

$$4848.5 \times 0.07 = 339$$

$$339.4 + 238 = \boxed{577} \text{ Bottom Hole Pressure}$$

Initial Bottom Hole Pressure= **2275** est.

WELL NAME: **Day B 3A**

FORMATION: **MV**

SURFACE PRESS: **186**

PERFS TOP: **4675**

BOTTOM: **5612**

$$(4675 + 5612) / 2 = 5144 \text{ Mid Perf}$$

$$5143.5 \times 0.07 = 360$$

$$360.05 + 186 = \boxed{546} \text{ Bottom Hole Pressure}$$

Initial Bottom Hole Pressure= **2430** est.

WELL NAME: **Day 4E**

FORMATION: **MV**

$$\text{Initial Bottom Hole Pressure: } (2275 + 2430) / 2 = \boxed{2353}$$

$$\text{Bottom Hole Pressure: } (577 + 546) / 2 = \boxed{562} \text{ est.}$$

$$\text{Day B 4 + Day B 3A BBLs } (0 + 115) / 2 = \boxed{58} \text{ est. annual production}$$

$$\text{Day B 4 + Day B 3A MCF } (38622 + 40984) / 2 = \boxed{39803} \text{ est. annual production}$$

ALLOCATION: SUBTRACTION METHOD

Day 4E

Future Production Decline Estimate

Month	Gas Volume
Jan-2000	70
Feb-2000	70
Mar-2000	70
Apr-2000	69
May-2000	69
Jun-2000	69
Jul-2000	69
Aug-2000	69
Sep-2000	68
Oct-2000	68
Nov-2000	68
Dec-2000	68
Jan-2001	68
Feb-2001	67
Mar-2001	67
Apr-2001	67
May-2001	67
Jun-2001	67
Jul-2001	66
Aug-2001	66
Sep-2001	66
Oct-2001	66
Nov-2001	66
Dec-2001	65
Jan-2002	65
Feb-2002	65
Mar-2002	65
Apr-2002	65
May-2002	64
Jun-2002	64
Jul-2002	64
Aug-2002	64
Sep-2002	64
Oct-2002	63
Nov-2002	63
Dec-2002	63

Month	Gas Volume
Jan-2003	63
Feb-2003	63
Mar-2003	62
Apr-2003	62
May-2003	62
Jun-2003	62
Jul-2003	62
Aug-2003	62
Sep-2003	61
Oct-2003	61
Nov-2003	61
Dec-2003	61
Jan-2004	61
Feb-2004	60
Mar-2004	60
Apr-2004	60
May-2004	60
Jun-2004	60
Jul-2004	60
Aug-2004	59
Sep-2004	59
Oct-2004	59
Nov-2004	59
Dec-2004	59
Jan-2005	58
Feb-2005	58
Mar-2005	58
Apr-2005	58
May-2005	58
Jun-2005	58
Jul-2005	57
Aug-2005	57
Sep-2005	57
Oct-2005	57
Nov-2005	57
Dec-2005	57

Month	Gas Volume
Jan-2006	56
Feb-2006	56
Mar-2006	56
Apr-2006	56
May-2006	56
Jun-2006	56
Jul-2006	55
Aug-2006	55
Sep-2006	55
Oct-2006	55
Nov-2006	55
Dec-2006	55
Jan-2007	54
Feb-2007	54
Mar-2007	54
Apr-2007	54
May-2007	54
Jun-2007	54
Jul-2007	53
Aug-2007	53
Sep-2007	53
Oct-2007	53
Nov-2007	53
Dec-2007	53
Jan-2008	52
Feb-2008	52
Mar-2008	52
Apr-2008	52
May-2008	52
Jun-2008	52
Jul-2008	52
Aug-2008	51
Sep-2008	51
Oct-2008	51
Nov-2008	51
Dec-2008	51

Month	Gas Volume
Jan-2009	51
Feb-2009	50
Mar-2009	50
Apr-2009	50
May-2009	50
Jun-2009	50
Jul-2009	50
Aug-2009	50
Sep-2009	49
Oct-2009	49
Nov-2009	49
Dec-2009	49
Jan-2010	49
Feb-2010	49
Mar-2010	49
Apr-2010	48
May-2010	48
Jun-2010	48
Jul-2010	48
Aug-2010	48
Sep-2010	48
Oct-2010	48
Nov-2010	47
Dec-2010	47
Jan-2011	47
Feb-2011	47
Mar-2011	47
Apr-2011	47
May-2011	47
Jun-2011	46
Jul-2011	46
Aug-2011	46
Sep-2011	46
Oct-2011	46
Nov-2011	46
Dec-2011	46

Day 4E

Future Production Decline Estimate

Month	Gas Volume
Jan-2012	45
Feb-2012	45
Mar-2012	45
Apr-2012	45
May-2012	45
Jun-2012	45
Jul-2012	45
Aug-2012	44
Sep-2012	44
Oct-2012	44
Nov-2012	44
Dec-2012	44
Jan-2013	44
Feb-2013	44
Mar-2013	44
Apr-2013	43
May-2013	43
Jun-2013	43
Jul-2013	43
Aug-2013	43
Sep-2013	43
Oct-2013	43
Nov-2013	43
Dec-2013	42
Jan-2014	42
Feb-2014	42
Mar-2014	42
Apr-2014	42
May-2014	42
Jun-2014	42
Jul-2014	42
Aug-2014	41
Sep-2014	41
Oct-2014	41
Nov-2014	41
Dec-2014	41

Month	Gas Volume
Jan-2015	41
Feb-2015	40
Mar-2015	40
Apr-2015	40
May-2015	40
Jun-2015	40
Jul-2015	39
Aug-2015	39
Sep-2015	39
Oct-2015	39
Nov-2015	39
Dec-2015	38
Jan-2016	38
Feb-2016	38
Mar-2016	38
Apr-2016	38
May-2016	38
Jun-2016	37
Jul-2016	37
Aug-2016	37
Sep-2016	37
Oct-2016	37
Nov-2016	36
Dec-2016	36
Jan-2017	36
Feb-2017	36
Mar-2017	36
Apr-2017	36
May-2017	35
Jun-2017	35
Jul-2017	35
Aug-2017	35
Sep-2017	35
Oct-2017	34
Nov-2017	34
Dec-2017	34

Month	Gas Volume
Jan-2018	34
Feb-2018	34
Mar-2018	34
Apr-2018	33
May-2018	33
Jun-2018	33
Jul-2018	33
Aug-2018	33
Sep-2018	33
Oct-2018	32
Nov-2018	32
Dec-2018	32
Jan-2019	32
Feb-2019	32
Mar-2019	32
Apr-2019	32
May-2019	31
Jun-2019	31
Jul-2019	31
Aug-2019	31
Sep-2019	31
Oct-2019	31
Nov-2019	30
Dec-2019	30
Jan-2020	30
Feb-2020	30
Mar-2020	30
Apr-2020	30
May-2020	30
Jun-2020	29
Jul-2020	29
Aug-2020	29
Sep-2020	29
Oct-2020	29
Nov-2020	29
Dec-2020	28

Month	Gas Volume
Jan-2021	28
Feb-2021	28
Mar-2021	28
Apr-2021	28
May-2021	28
Jun-2021	28
Jul-2021	28
Aug-2021	27
Sep-2021	27
Oct-2021	27
Nov-2021	27
Dec-2021	27
Jan-2022	27
Feb-2022	27
Mar-2022	26
Apr-2022	26
May-2022	26
Jun-2022	26
Jul-2022	26
Aug-2022	26
Sep-2022	26
Oct-2022	26
Nov-2022	25
Dec-2022	25
Jan-2023	25
Feb-2023	25
Mar-2023	25
Apr-2023	25
May-2023	25
Jun-2023	25
Jul-2023	24
Aug-2023	24
Sep-2023	24
Oct-2023	24
Nov-2023	24
Dec-2023	24

Day 4E

Future Production Decline Estimate

Month	Gas Volume
Jan-2024	24
Feb-2024	24
Mar-2024	23
Apr-2024	23
May-2024	23
Jun-2024	23
Jul-2024	23
Aug-2024	23
Sep-2024	23
Oct-2024	23
Nov-2024	23
Dec-2024	22
Jan-2025	22
Feb-2025	22
Mar-2025	22
Apr-2025	22
May-2025	22
Jun-2025	22
Jul-2025	22
Aug-2025	22
Sep-2025	21
Oct-2025	21
Nov-2025	21
Dec-2025	21
Jan-2026	21
Feb-2026	21
Mar-2026	21
Apr-2026	21
May-2026	21
Jun-2026	20
Jul-2026	20
Aug-2026	20
Sep-2026	20
Oct-2026	20
Nov-2026	20
Dec-2026	20

Month	Gas Volume
Jan-2027	20
Feb-2027	20
Mar-2027	20
Apr-2027	19
May-2027	19
Jun-2027	19
Jul-2027	19
Aug-2027	19
Sep-2027	19
Oct-2027	19
Nov-2027	19
Dec-2027	19
Jan-2028	19
Feb-2028	19
Mar-2028	18
Apr-2028	18
May-2028	18
Jun-2028	18
Jul-2028	18
Aug-2028	18
Sep-2028	18
Oct-2028	18
Nov-2028	18
Dec-2028	18
Jan-2029	18
Feb-2029	17
Mar-2029	17
Apr-2029	17
May-2029	17
Jun-2029	17
Jul-2029	17
Aug-2029	17
Sep-2029	17
Oct-2029	17
Nov-2029	17
Dec-2029	17

Month	Gas Volume
Jan-2030	17
Feb-2030	16
Mar-2030	16
Apr-2030	16
May-2030	16
Jun-2030	16
Jul-2030	16
Aug-2030	16
Sep-2030	16
Oct-2030	16
Nov-2030	16
Dec-2030	16
Jan-2031	15
Feb-2031	15
Mar-2031	15
Apr-2031	15
May-2031	15
Jun-2031	15
Jul-2031	15
Aug-2031	15
Sep-2031	15
Oct-2031	15
Nov-2031	15
Dec-2031	15
Jan-2032	15
Feb-2032	14
Mar-2032	14
Apr-2032	14
May-2032	14
Jun-2032	14
Jul-2032	14
Aug-2032	14
Sep-2032	14
Oct-2032	14
Nov-2032	14
Dec-2032	14

Month	Gas Volume
Jan-2033	14
Feb-2033	14
Mar-2033	14
Apr-2033	14
May-2033	13
Jun-2033	13
Jul-2033	13
Aug-2033	13
Sep-2033	13
Oct-2033	13
Nov-2033	13
Dec-2033	13
Jan-2034	13
Feb-2034	13
Mar-2034	13
Apr-2034	13
May-2034	13
Jun-2034	13
Jul-2034	13
Aug-2034	12
Sep-2034	12
Oct-2034	12
Nov-2034	12
Dec-2034	12
Jan-2035	12
Feb-2035	12
Mar-2035	12
Apr-2035	12
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Sep-2035	12
Oct-2035	12
Nov-2035	12
Dec-2035	12

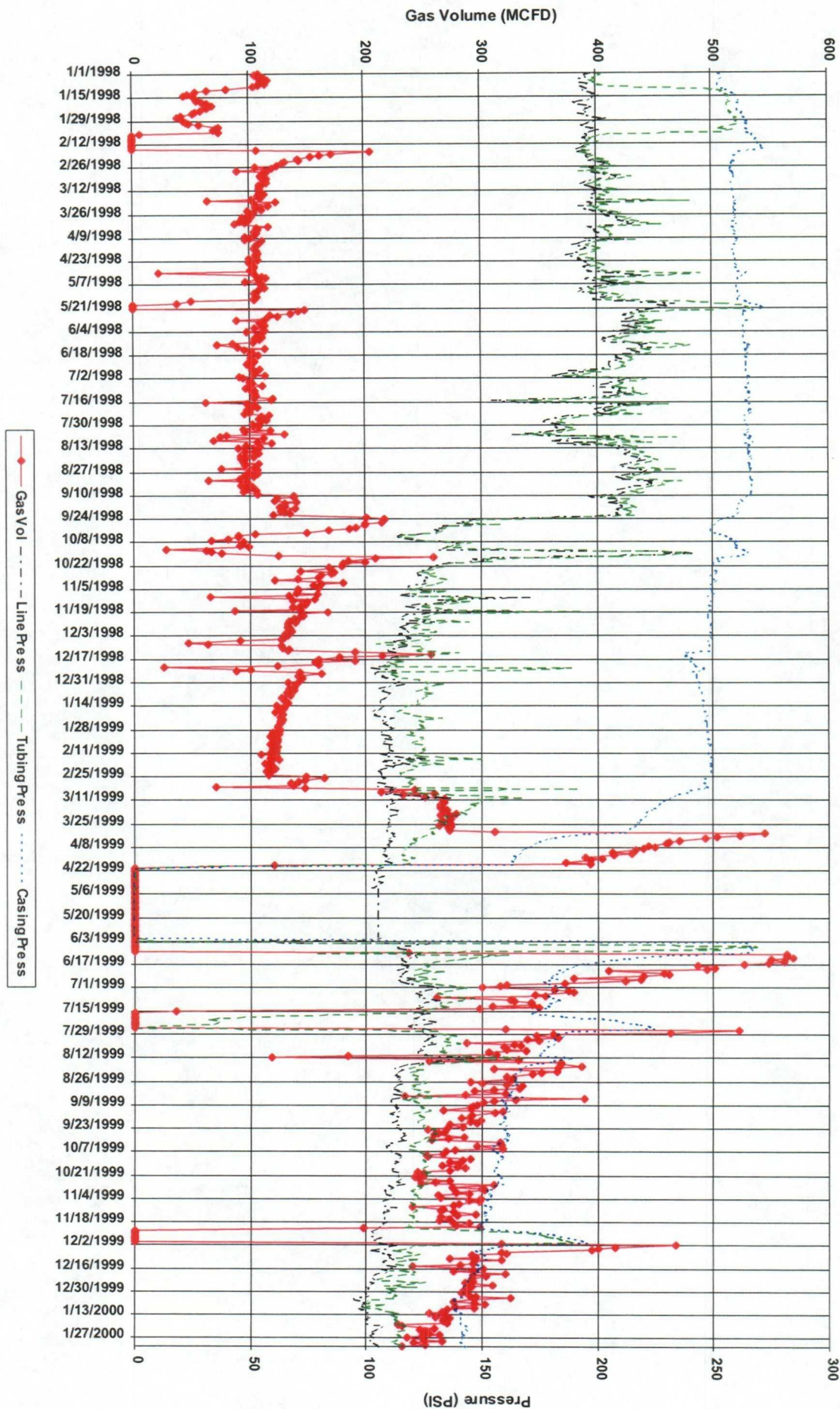
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Amoco - OIDB/Synergy Data

Daily Well Production



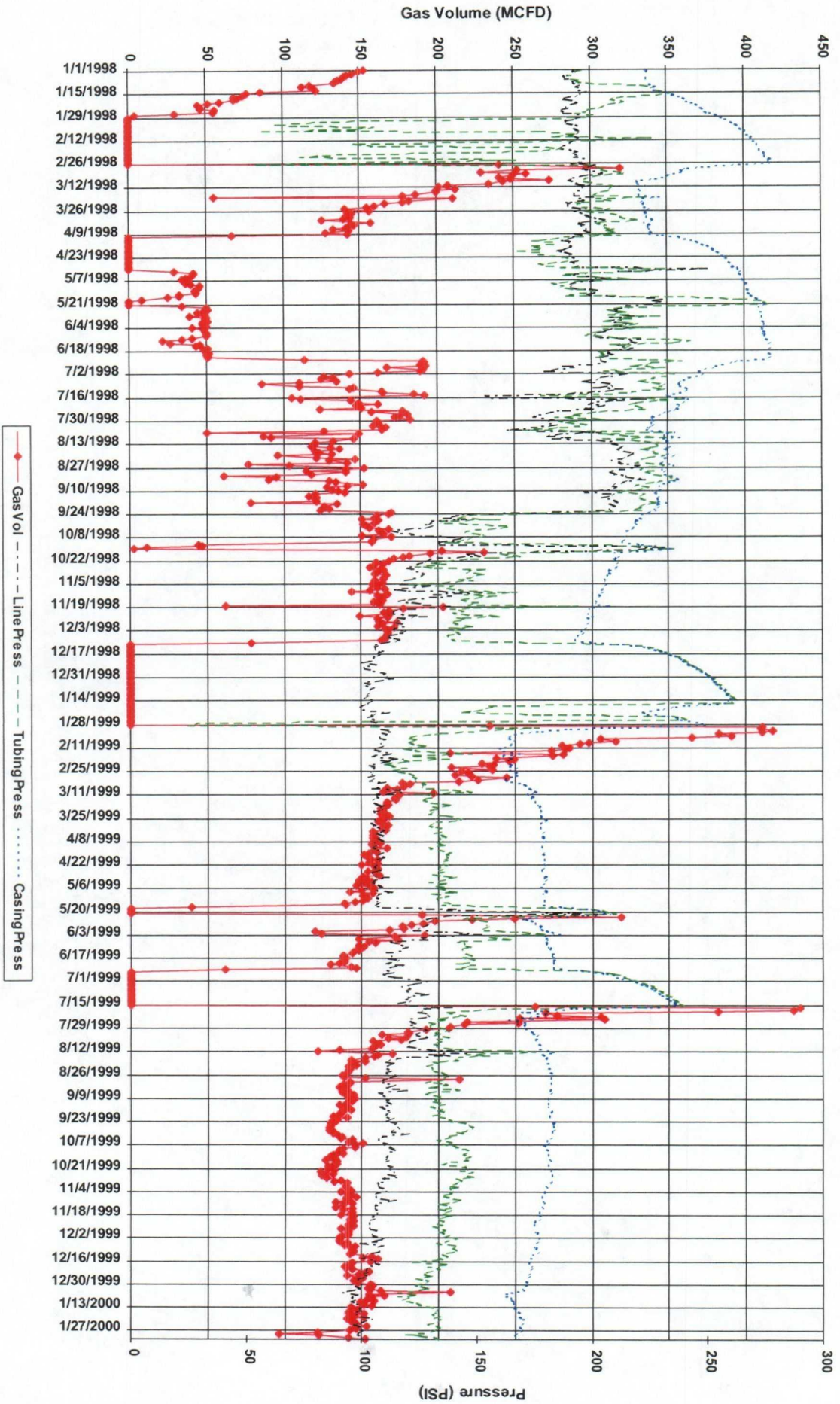
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Flacwell: 97864401

API: 300450843700

Amoco - OIDB/Synergy Data

Daily Well Production



Wellname: DAY 004E-DK

Flacwell: 97978101 API: 300452532300

Amoco - OI DB/Synergy Data

Daily Well Production

