

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
81 South First St., Artesia, NM 88210-2835

OIL CONSERVATION DIVISION

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

APPROVAL PROCESS:

☒ Administrative ☐ Hearing

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

EXISTING WELLBORE

☒ YES ☐ NO

APPLICATION FOR DOWNHOLE COMMINGLING

Amoco Production Company

PO Box 3092 Houston, TX 77253-3092

Operator	Address
Wilch A	L 23-29N-08W
Lease	County
5	San Juan
Well No.	Unit Ltr. - Sec Twp - Rge

Spacing Unit Lease Types: (check 1 or more)

GRID NO. 000778 Property Code 001215 API NO. 30-045-23343 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)	4707' - 5420' EST		7346' - 7750'
3. Type of production (Oil or Gas)	Gas		Gas
4. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing
5. Bottomhole Pressure	a. (Current) 502 PSIG (EST.)	a.	a. 685 PSIG
Oil Zones - Artificial Lift: Estimated Current			
Gas & Oil - Flowing: Measured Current	b. (Original) 1225 PSIG (Est.)	b.	b. 2356 PSIG
All Gas Zones: Estimated or Measured Original			
6. Oil Gravity (* API) or Gas BTU Content	1256 BTU		1111 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	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:
8. Fixed Percentage Allocation Formula -% for each zone	Oil: 100 % Gas 72 %	Oil: % Gas %	Oil: 0 % Gas 28 %

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. NMOC 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 8/23/99
TYPE OR PRINT NAME Mary Corley TELEPHONE NO. (281) 366-4491

OFFSET OPERATORS

Wilch A #5

**Burlington Resources Oil and Gas Co.
PO Box 4289
Farmington, NM 87499**

**Conoco Inc.
10 Desta Drive, Suite 100 West
Midland, TX 79705-4515**

PRODUCTION ALLOCATION RECOMMENDATION

Wilch A #5

Since no Mesaverde Production has been established for the subject well Amoco Production Company proposes to from the Dakota formation in the subject well and the estimated production rate established utilizing the production from Mesaverde wells producing in the immediate area of the subject well. This method of calculation is indicated on the attached Production Allocation Worksheet.

WORKING, OVERRIDING, and ROYALTY INTEREST OWNERS NOTIFICATION

Wilch A #5

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-045-23343	Pool Code 72319 & 71599	Pool Name Blanco Mesaverde & Basin Dakota
Property Code 001215	Property Name Wilch A	Well Number 5
OGRID No. 000778	Operator Name AMOCO PRODUCTION COMPANY	Elevation 6455' GR

Surface Location

UL or lot no. UNIT L	Section 23	Township 29N	Range 8W	Lot. Idn	Feet from the 2450	North/South Line SOUTH	Feet from the 1160	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
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Dedicated Acreage: 320	Joint or Infill	Consolidation Code	Order No.
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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

RECEIVED
SEP 23 1999
OIL CON. DIV.
DIST. 3

OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief

Signature
Mary Corley

Printed Name
Mary Corley

Position
Sr. Business Analyst

Date
08/14/1999

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.

10/01/1978

Date of Survey

Signature & Seal of Professional Surveyor
Fred B. Kerr, Jr.

Certificate No.
3950

DK	0.08	PC	0.04
MV	0.07	FT	0.04
		CK	0.04

WELL NAME: **Wilch 5**

FORMATION: **DK**

SURFACE PRESS: **427**

PERFS TOP: **7646**

BOTTOM: **7874**

$$(7646 + 7874) / 2 = 7760 \text{ Mid Perf}$$

$$7760 \times 0.08 = 621$$

$$620.8 + 427 = \boxed{1048} \text{ Bottom Hole Pressure}$$

Initial Bottom Hole Pressure= **2356**

WELL NAME: **Hardie 4**

FORMATION: **MV**

SURFACE PRESS: **304**

PERFS TOP: **5364**

BOTTOM: **5526**

$$(5364 + 5526) / 2 = 5445 \text{ Mid Perf}$$

$$5445 \times 0.07 = 381$$

$$381.15 + 304 = \boxed{685} \text{ Bottom Hole Pressure}$$

Initial Bottom Hole Pressure= **1251**

WELL NAME: **Hardie 5**

FORMATION: **MV**

SURFACE PRESS: **146**

PERFS TOP: **4716**

BOTTOM: **5462**

$$(4716 + 5462) / 2 = 5089 \text{ Mid Perf}$$

$$5089 \times 0.07 = 356$$

$$356.23 + 146 = \boxed{502} \text{ Bottom Hole Pressure}$$

Initial Bottom Hole Pressure= **1198**

WELL NAME: **Wilch 5**

FORMATION: **MV**

$$\text{Initial Bottom Hole Pressure: } (1251 + 1198) / 2 \cong \boxed{1225}$$

$$\text{Bottom Hole Pressure: } (685 + 502) / 2 \cong \boxed{594} \text{ est.}$$

$$\text{Hardie 4 + Hardie 5 BBLs } (0 + 242) / 2 \cong \boxed{121} \text{ est. annual production}$$

$$\text{Hardie 4 + Hardie 5 MCF } (41312 + 31209) / 2 \cong \boxed{36261} \text{ est. annual production}$$

ALLOCATION

FM	BBL	%	GAS	%
DK	0	0%	14339	28%
MV	121	100%	36261	72%

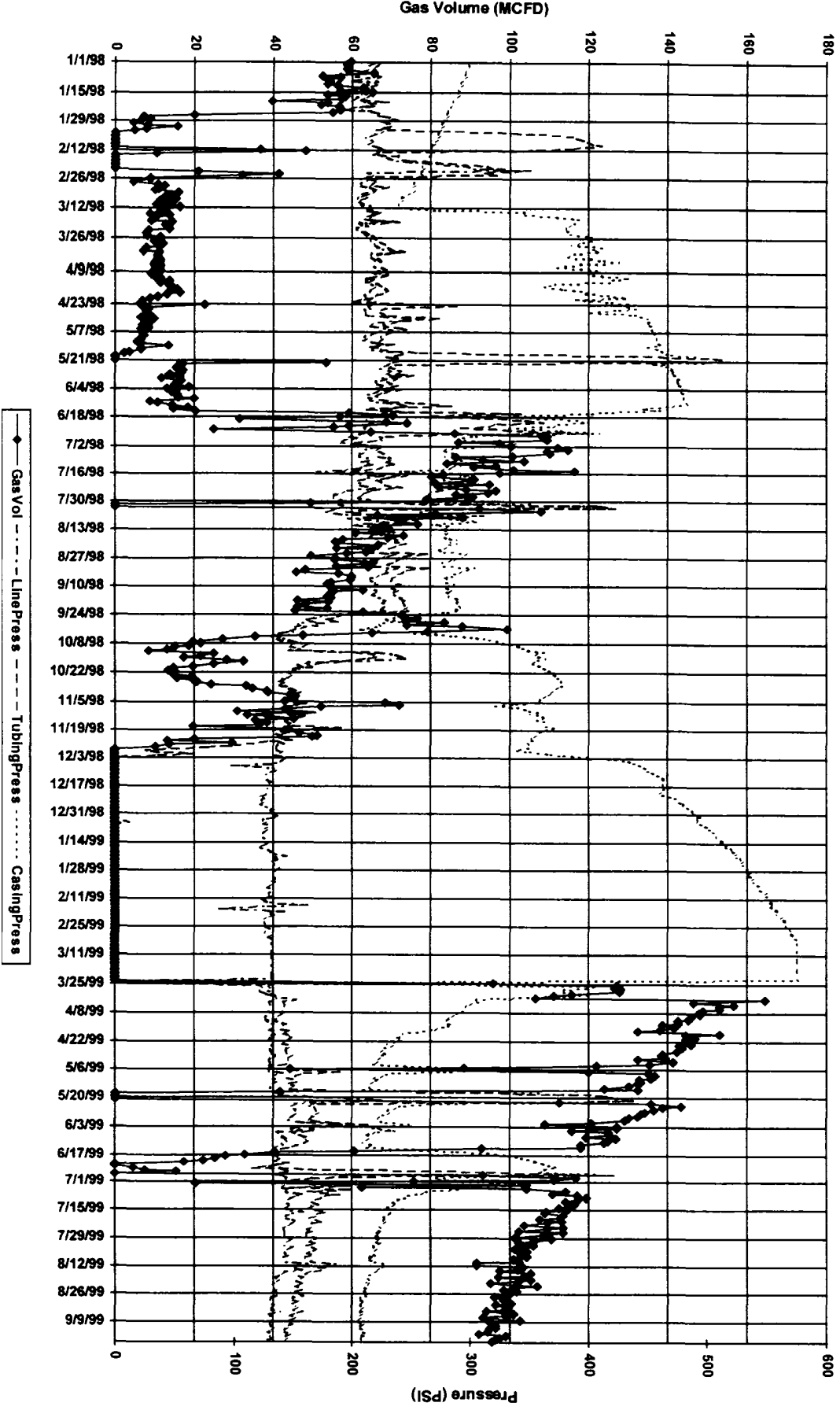
Wellname: WILCH A 005-DK

Flacwell: 97949901

APL: 300452334300

Amoco - OI DB/Synergy Data

Daily Well Production



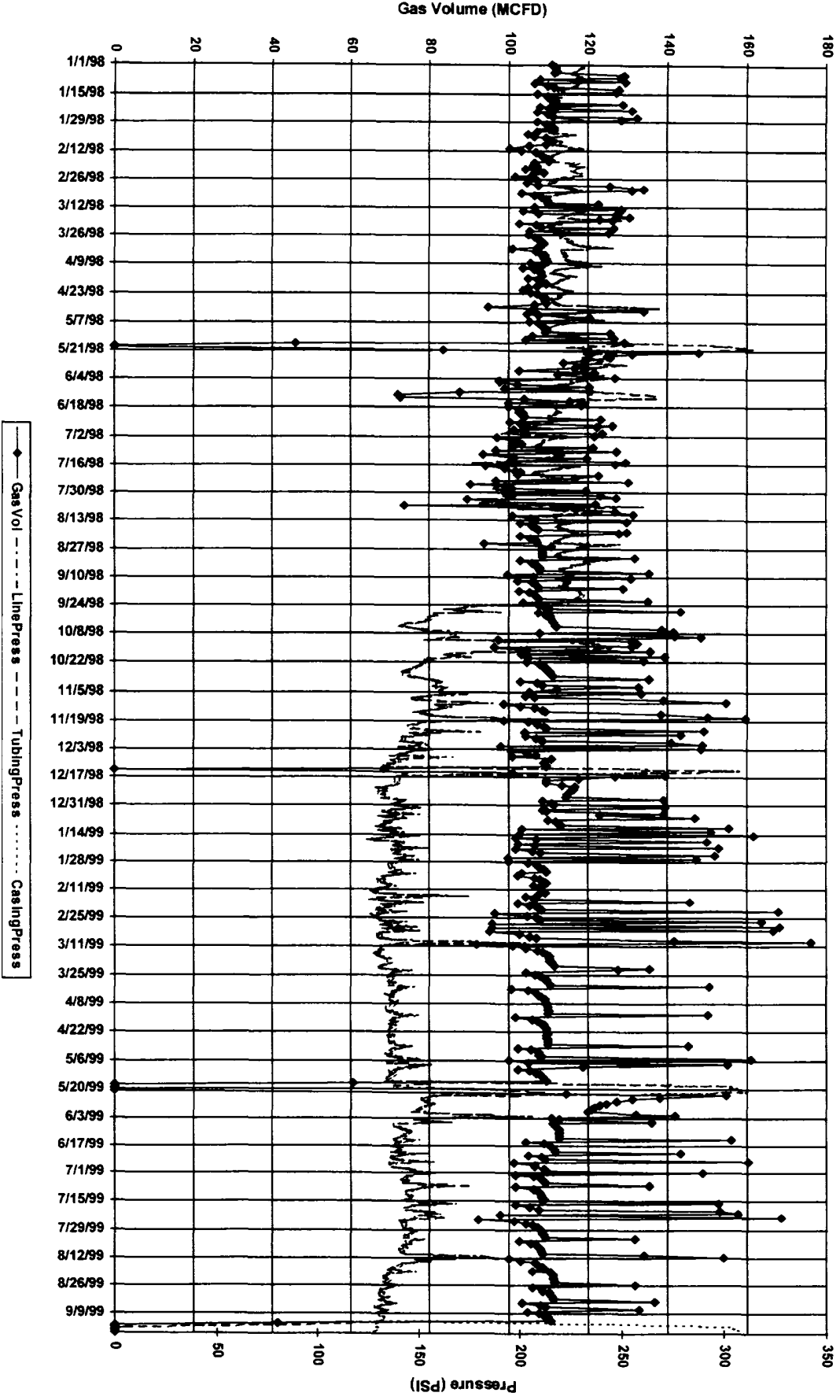
Wellname: **HARDIE LS 004-MV**

Flacwell: **97862601**

API: **300450805400**

Amoco - OI DB/Synergy Data

Daily Well Production



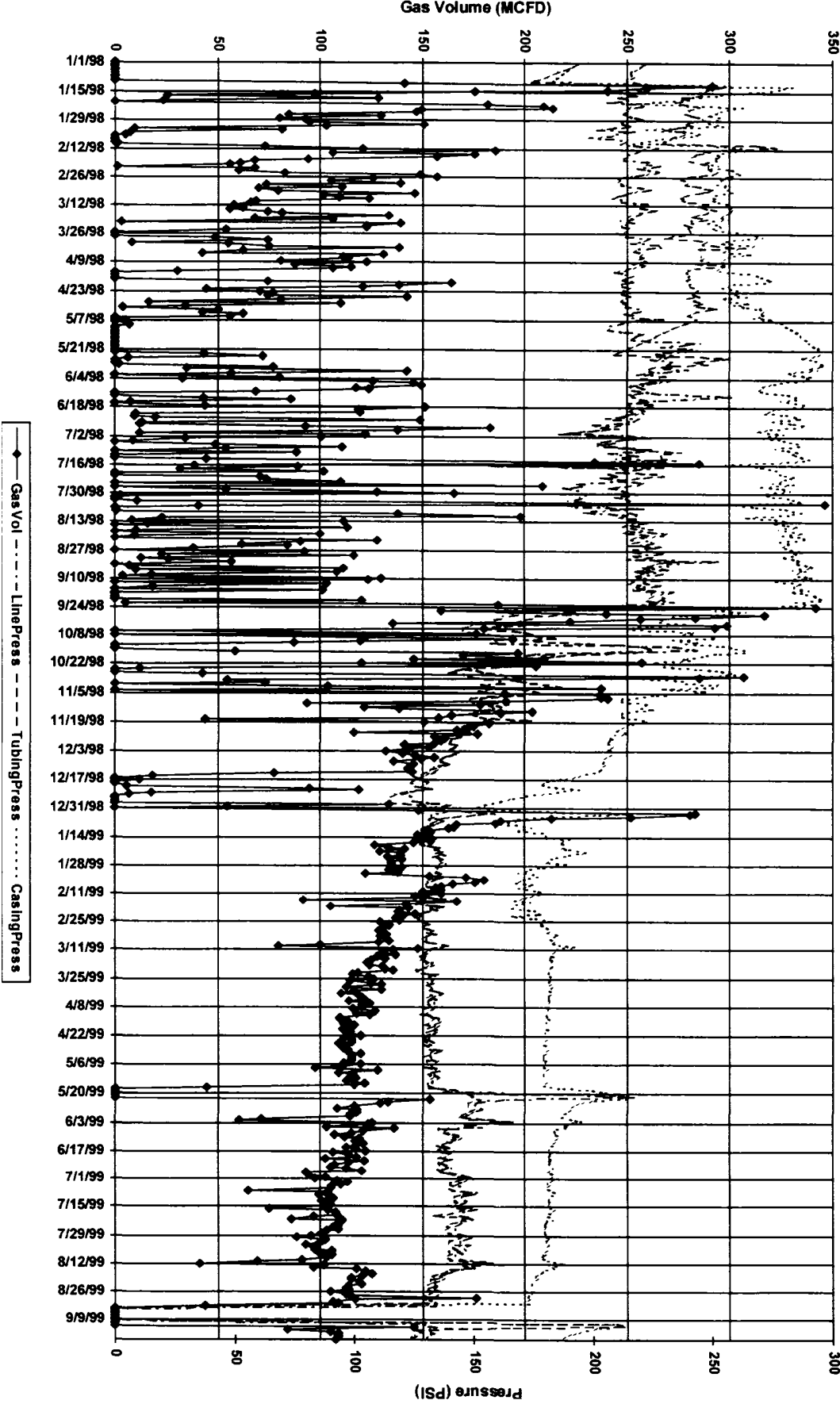
Wellname: **HARDIE LS 005-MV**

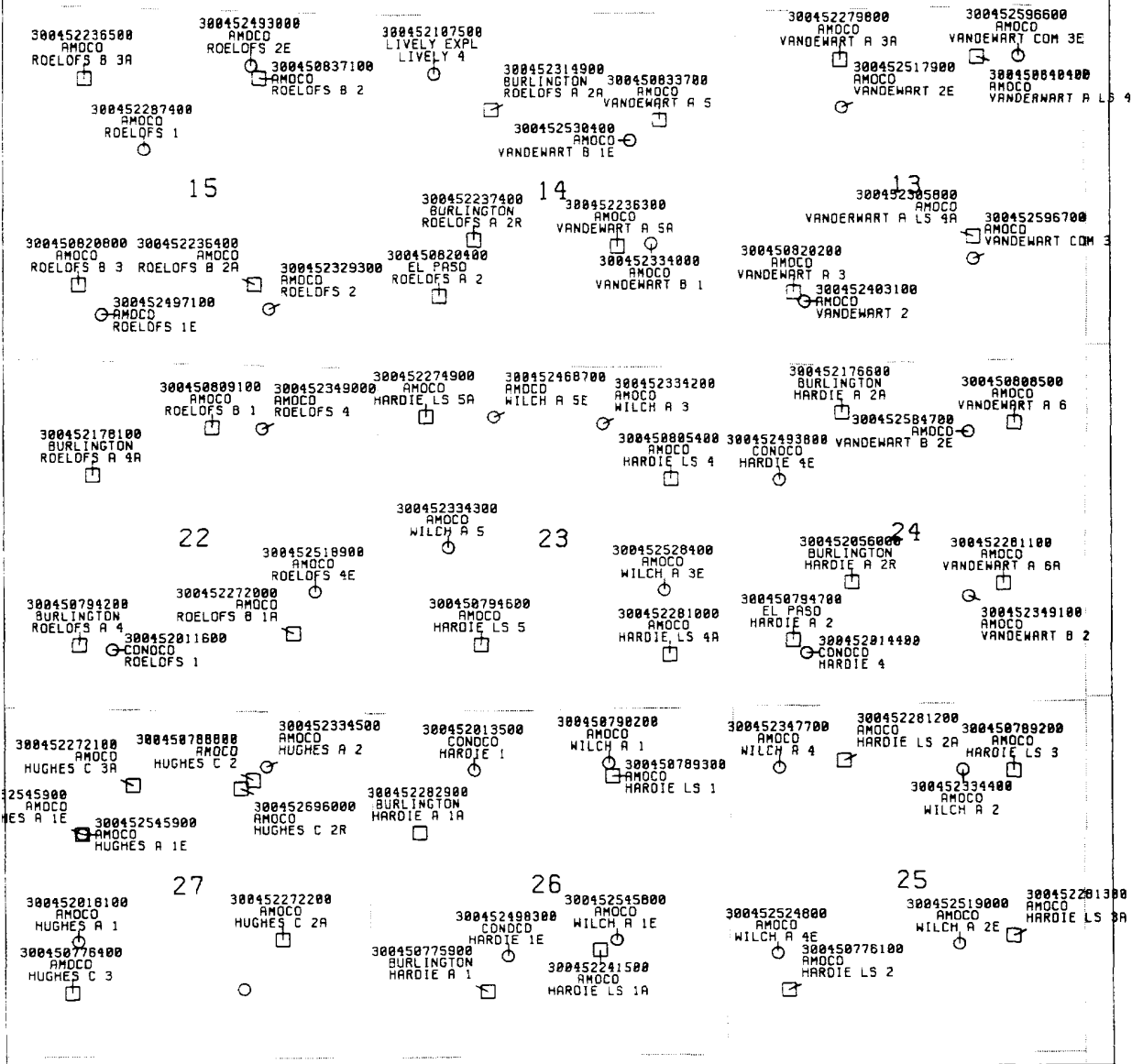
Flacwell: **97862201**

API: **300450794600**

Amoco - OI/OB/Synergy Data

Daily Well Production





AMOCO PRODUCTION COMPANY HOUSTON, TX

WILCH A #5
23-29N-08W
MESAVERDE & DAKOTA WELLS

SCALE 1" = 2500'

DRAWN M. J. RITZ

DATE 2-SEP-1999

DRAWING

kota

saverde