

DATE: 3/25/03	SUSPENSE: NA	ENGINEER: WVS	LOGGED IN: KV	TYPE: DHC	APP NO: PKR/0308557298
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AMEND

#1049

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
 - Engineering Bureau -
 1220 South St. Francis Drive, Santa Fe, NM 87505



RECEIVED

MAR 25 2003

Oil Conservation Division

ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

- [NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [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 - Simultaneous Dedication
 NSL NSP SD

Check One Only for [B] or [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

[D] Other: Specify _____

[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] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is accurate and complete to the best of my knowledge. I also understand that no action will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

PEGGY COLE
 Print or Type Name

Peggy Cole
 Signature

REGULATORY Supr. 3-24-03
 Title Date

peole@br-inc.com
 e-mail Address

District I
1625 N. French Drive, Hobbs, NM 88240

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-107A
Revised May 15, 2000

District II
1301 W. Grand Avenue, Artesia, NM 88210

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

APPLICATION TYPE
Single Well
Establish Pre-Approved Pools
EXISTING WELLBORE
Y Yes No

District III
1000 Rio Brazos Road, Aztec, NM 87410

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

APPLICATION FOR DOWNHOLE COMMINGLING

BURLINGTON RESOURCES OIL & GAS COMPANY PO BOX 4289, FARMINGTON, NM 87499

Operator Jicarilla 150 #6 Address L-02-26N-5W Rio Arriba

Lease Well No. Unit Letter-Section-Township-Range County
OGRID No. 14538 Property Code 16344 API No. 30-039-20240 Lease Type: X Federal State Fee

Table with 5 columns: DATA ELEMENT, UPPER ZONE, INTERMEDIATE ZONE, LOWER ZONE, LOWER ZONE. Rows include Pool Name, Pool Code, Top and Bottom of Pay Section, Method of Production, Bottomhole Pressure, Oil Gravity or Gas BTU, Producing, Shut-In or New Zone, Date and Oil/Gas/Water Rates of Last Production, and Fixed Allocation Percentage.

ADDITIONAL DATA

Are all working, royalty and overriding royalty interests identical in all commingled zones? Yes X No
Are all produced fluids from all commingled zones compatible with each other? Yes X No
Will commingling decrease the value of production? Yes No X
If this well is on, or communitized with, state or federal lands, has either the Commissioner of Public Lands or the United States Bureau of Land Management been notified in writing of this application? Yes X No

NMOCD Reference Case No. applicable to this well:

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.
Any additional statements, data or documents required to support commingling.

PRE-APPROVED POOLS

If application is to establish Pre-Approved Pools, the following additional information will be required:

List of other orders approving downhole commingling within the proposed Pre-Approved Pools
List of all operators within the proposed Pre-Approved Pools
Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application.
Bottomhole pressure data.

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

SIGNATURE [Signature] TITLE SR. RESERVOIR ENGINEER DATE 3/24/03
nxo
TYPE OR PRINT NAME L. Tom Loveland TELEPHONE NO. (505) 326-9700

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1625 N. French Dr., Hobbs, NM 88240
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State of New Mexico
Energy, Minerals and Natural Resources

Form C-102

Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-039-20240	Pool Name OTERO CHACRA (GAS)	Pool Code 82329
Property Code 16344	Property Name JICARILLA 150	Well No. 006
OGRID No. 14538	Operator Name Burlington Resources Oil and Gas Company	Elevation 6692

Surface And Bottom Hole Location

UL or Lot L	Section 2	Township 26N	Range 05W	Lot Idn	Feet From 1625	N/S Line S	Feet From 915	E/W Line W	County Rio Arriba
Dedicated Acres 160	Joint or Infill	Consolidation Code	Order No.						

□			

OPERATOR CERTIFICATION
<i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</i>
Electronically Signed By: <i>[Signature]</i>
Title:
Date: <i>1-14-03</i>
SURVEYOR 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 belief.</i>
Electronically Signed By: James Leese
Date of Survey: 7/1/1969
Certificate Number: 1462

District I
 1625 N. French Dr., Hobbs, NM 88240
 District II
 1301 W. Grand Ave., Artesia, NM 88210
 District III
 1000 Rio Brazos Rd., Aztec, NM 87410
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 1220 S. St Francis Dr., Santa Fe, NM 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-102

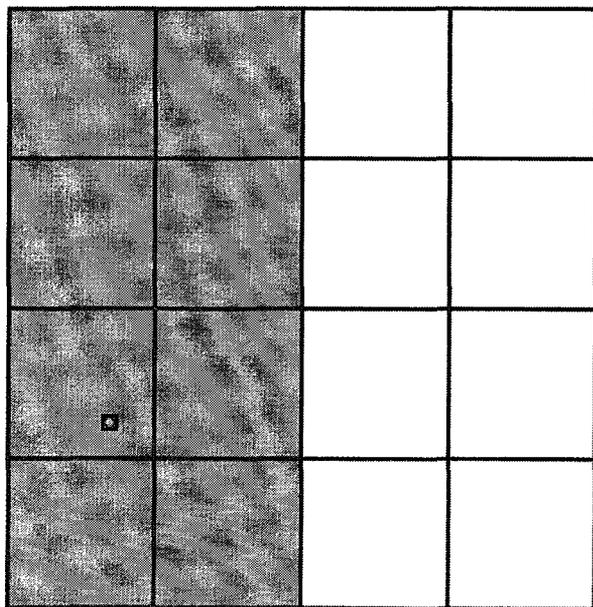
Oil Conservation Division
 1220 S. St Francis Dr.
 Santa Fe, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-039-20240	Pool Name BLANCO-MESAVERDE (PRORATED GAS)	Pool Code 72319
Property Code 16344	Property Name JICARILLA 150	Well No. 006
OGRID No. 14538	Operator Name Burlington Resources Oil and Gas Company	Elevation 6692

Surface And Bottom Hole Location

UL or Lot L	Section 2	Township 26N	Range 05W	Lot Idn	Feet From 1625	N/S Line S	Feet From 915	E/W Line W	County Rio Arriba
Dedicated Acres 319.81	Joint or Infill	Consolidation Code	Order No.						



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State of New Mexico
 Energy, Minerals and Natural Resources
 Oil Conservation Division
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 Santa Fe, NM 87505

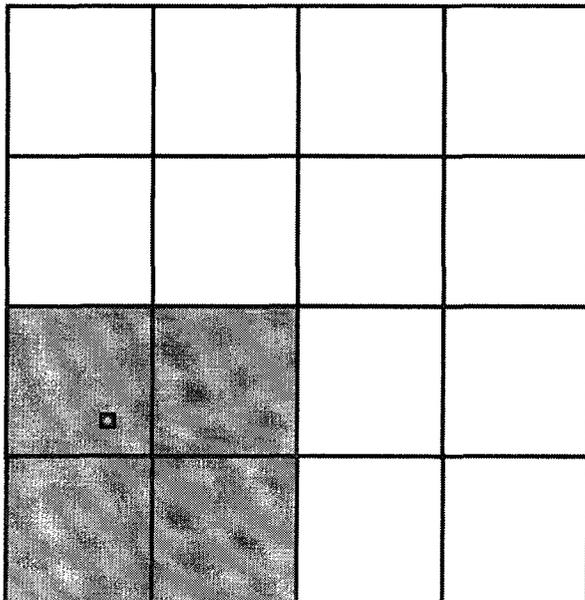
Form C-102

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-039-20240	Pool Name BS MESA GALLUP (GAS)	Pool Code 72920
Property Code 16344	Property Name JICARILLA 150	Well No. 006
OGRID No. 14538	Operator Name Burlington Resources Oil and Gas Company	Elevation 6692

Surface And Bottom Hole Location

UL or Lot L	Section 2	Township 26N	Range 05W	Lot Idn	Feet From 1625	N/S Line S	Feet From 915	E/W Line W	County Rio Arriba
Dedicated Acres 160		Joint or Infill		Consolidation Code		Order No.			



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State of New Mexico
 Energy, Minerals and Natural Resources

Form C-102

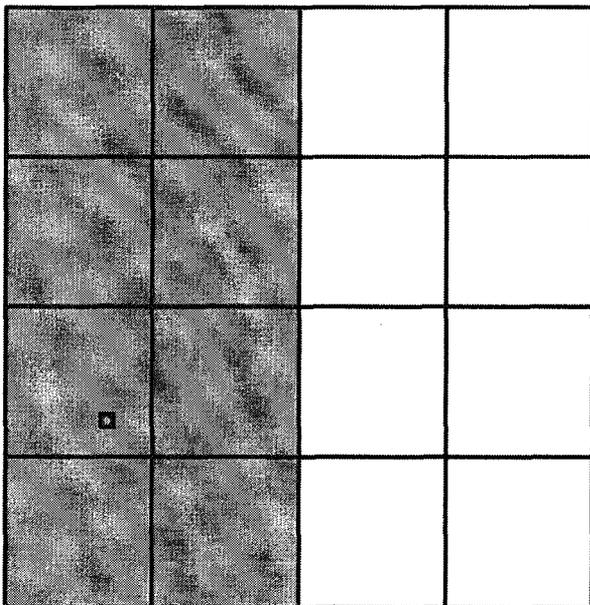
Oil Conservation Division
 1220 S. St Francis Dr.
 Santa Fe, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-039-20240	Pool Name BASIN DAKOTA (PRORATED GAS)	Pool Code 71599
Property Code 16344	Property Name JICARILLA 150	Well No. 006
OGRID No. 14538	Operator Name Burlington Resources Oil and Gas Company	Elevation 6692

Surface And Bottom Hole Location

UL or Lot L	Section 2	Township 26N	Range 05W	Lot Idn	Feet From 1625	N/S Line S	Feet From 915	E/W Line W	County Rio Arriba
Dedicated Acres 319.81		Joint or Infill		Consolidation Code		Order No.			



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 Date of Survey: 7/1/1969
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Jicarilla 150 #6
Bottom Hole Pressures
Flowing and Static BHP
Cullender and Smith Method
Version 1.0 1/14/98

Chacra	Mesaverde																																																
<u>CH-Current</u>	<u>MV-Current</u>																																																
<table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 80%;">GAS GRAVITY</td><td style="text-align: right; border-bottom: 1px solid black;">0</td></tr> <tr><td>COND. OR MISC. (C/M)</td><td style="text-align: right; border-bottom: 1px solid black;">C</td></tr> <tr><td>%N2</td><td style="text-align: right; border-bottom: 1px solid black;">0</td></tr> <tr><td>%CO2</td><td style="text-align: right; border-bottom: 1px solid black;">0</td></tr> <tr><td>%H2S</td><td style="text-align: right; border-bottom: 1px solid black;">0</td></tr> <tr><td>DIAMETER (IN)</td><td style="text-align: right; border-bottom: 1px solid black;">0</td></tr> <tr><td>DEPTH (FT)</td><td style="text-align: right; border-bottom: 1px solid black;">0</td></tr> <tr><td>SURFACE TEMPERATURE (DEG F)</td><td style="text-align: right; border-bottom: 1px solid black;">0</td></tr> <tr><td>BOTTOMHOLE TEMPERATURE (DEG F)</td><td style="text-align: right; border-bottom: 1px solid black;">0</td></tr> <tr><td>FLOWRATE (MCFPD)</td><td style="text-align: right; border-bottom: 1px solid black;">0</td></tr> <tr><td>SURFACE PRESSURE (PSIA)</td><td style="text-align: right; border-bottom: 1px solid black;">0</td></tr> <tr><td>BOTTOMHOLE PRESSURE (PSIA)</td><td style="text-align: right; border-bottom: 1px solid black; border: 1px solid black;">#DIV/0!</td></tr> </table>	GAS GRAVITY	0	COND. OR MISC. (C/M)	C	%N2	0	%CO2	0	%H2S	0	DIAMETER (IN)	0	DEPTH (FT)	0	SURFACE TEMPERATURE (DEG F)	0	BOTTOMHOLE TEMPERATURE (DEG F)	0	FLOWRATE (MCFPD)	0	SURFACE PRESSURE (PSIA)	0	BOTTOMHOLE PRESSURE (PSIA)	#DIV/0!	<table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 80%;">GAS GRAVITY</td><td style="text-align: right; border-bottom: 1px solid black;">0.703</td></tr> <tr><td>COND. OR MISC. (C/M)</td><td style="text-align: right; border-bottom: 1px solid black;">C</td></tr> <tr><td>%N2</td><td style="text-align: right; border-bottom: 1px solid black;">0.00</td></tr> <tr><td>%CO2</td><td style="text-align: right; border-bottom: 1px solid black;">0.0081</td></tr> <tr><td>%H2S</td><td style="text-align: right; border-bottom: 1px solid black;">0</td></tr> <tr><td>DIAMETER (IN)</td><td style="text-align: right; border-bottom: 1px solid black;">5.5</td></tr> <tr><td>DEPTH (FT)</td><td style="text-align: right; border-bottom: 1px solid black;">5343</td></tr> <tr><td>SURFACE TEMPERATURE (DEG F)</td><td style="text-align: right; border-bottom: 1px solid black;">60</td></tr> <tr><td>BOTTOMHOLE TEMPERATURE (DEG F)</td><td style="text-align: right; border-bottom: 1px solid black;">105.7</td></tr> <tr><td>FLOWRATE (MCFPD)</td><td style="text-align: right; border-bottom: 1px solid black;">0</td></tr> <tr><td>SURFACE PRESSURE (PSIA)</td><td style="text-align: right; border-bottom: 1px solid black;">391</td></tr> <tr><td>BOTTOMHOLE PRESSURE (PSIA)</td><td style="text-align: right; border-bottom: 1px solid black; border: 1px solid black;">450.0</td></tr> </table>	GAS GRAVITY	0.703	COND. OR MISC. (C/M)	C	%N2	0.00	%CO2	0.0081	%H2S	0	DIAMETER (IN)	5.5	DEPTH (FT)	5343	SURFACE TEMPERATURE (DEG F)	60	BOTTOMHOLE TEMPERATURE (DEG F)	105.7	FLOWRATE (MCFPD)	0	SURFACE PRESSURE (PSIA)	391	BOTTOMHOLE PRESSURE (PSIA)	450.0
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Jicarilla 150 #6 - SICP/Z Data

Zone: Mesaverde

Date	SICP (psig)	Chromatograph Used	Z-Factor	SICP/Z (psig)	Cum Qg (MMCF)	Slope	Y Intercept
9/9/1969	984	10/1/2002	0.8709	1130	0	N/A	1130
4/18/1971	900	10/1/2002	0.8807	1022	195.902	-0.551047	1130
5/17/1973	521	10/1/2002	0.9286	561	481.828	-1.180517	1130
5/3/1976	413	10/1/2002	0.943	438	813.101	-0.850942	1130
1/1/1980	439	10/1/2002	0.9395	467	1078.86	-0.614163	1130
4/2/1986	478	10/1/2002	0.9343	512	1338.23	-0.461993	1130
5/29/1991	438	10/1/2002	0.9396	466	1466.86	-0.45247	1130
4/29/1993	398	10/1/2002	0.945	421	1530.77	-0.462971	1130
???	53	N/A	1	53	3599.817	-0.299145	1130
12/31/2002	???	10/1/2002	???	412	2399.94	-0.299145	1130

Z-Factor = 0.95
SICP (psig) = 391

Zone: Dakota

Date	SICP (psig)	Chromatograph Used	Z-Factor	SICP/Z (psig)	Cum Qg (MMCF)	Slope	Y Intercept
9/9/1969	2375	10/1/2002	0.7903	3005	0	N/A	3005
5/18/1971	1000	10/1/2002	0.8691	1151	156.542	-11.84712	3005
5/17/1973	1021	10/1/2002	0.8667	1178	302.199	-6.046202	3005
4/17/1977	895	10/1/2002	0.8813	1016	528.122	-3.767392	3005
8/1/1980	994	10/2/2002	0.8698	1143	694.558	-2.681412	3005
7/25/1983	1012	10/3/2002	0.8678	1166	826.048	-2.226288	3005
7/3/1985	890	10/4/2002	0.8819	1009	898.291	-2.222001	3005
???	53	N/A	1	53	1737.419	-1.699181	3005
12/31/2002	???	10/1/2002	???	562	1437.57	-1.699181	3005

Z-Factor = 0.92
SICP (psig) = 517

Zone: Gallup

SICP	Chromatograph	SICP/Z	Cum Qg	Y
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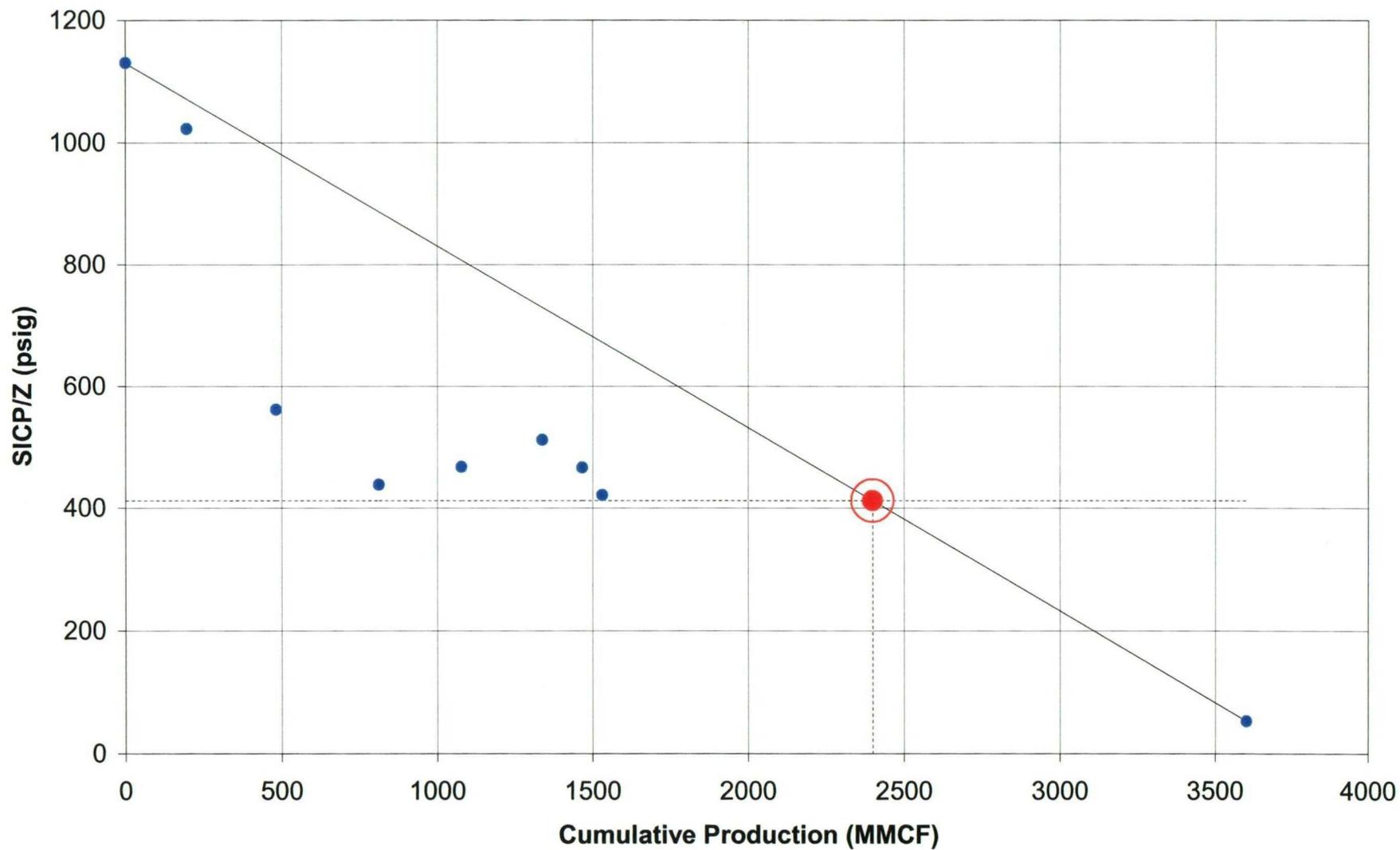
Date	(psig)	Used	Z-Factor	(psig)	(MMCF)	Slope	Intercept
4/23/1986	962	10/1/2002	0.8711	1104	25.985	N/A	1104
10/21/1987	817	10/1/2002	0.8887	919	57.382	-5.893253	1104
1/13/1988	817	10/1/2002	0.8887	919	63.428	-4.941657	1104
4/15/1993	631	10/1/2002	0.9126	691	140.393	-3.609186	1104
???	53	N/A	1	53	654.5806	-1.672539	1104
						↓	↓
12/31/2002	???	10/1/2002	???	587	309.359	-1.672539	1104

Z-Factor = 0.94
SICP (psig) = 552

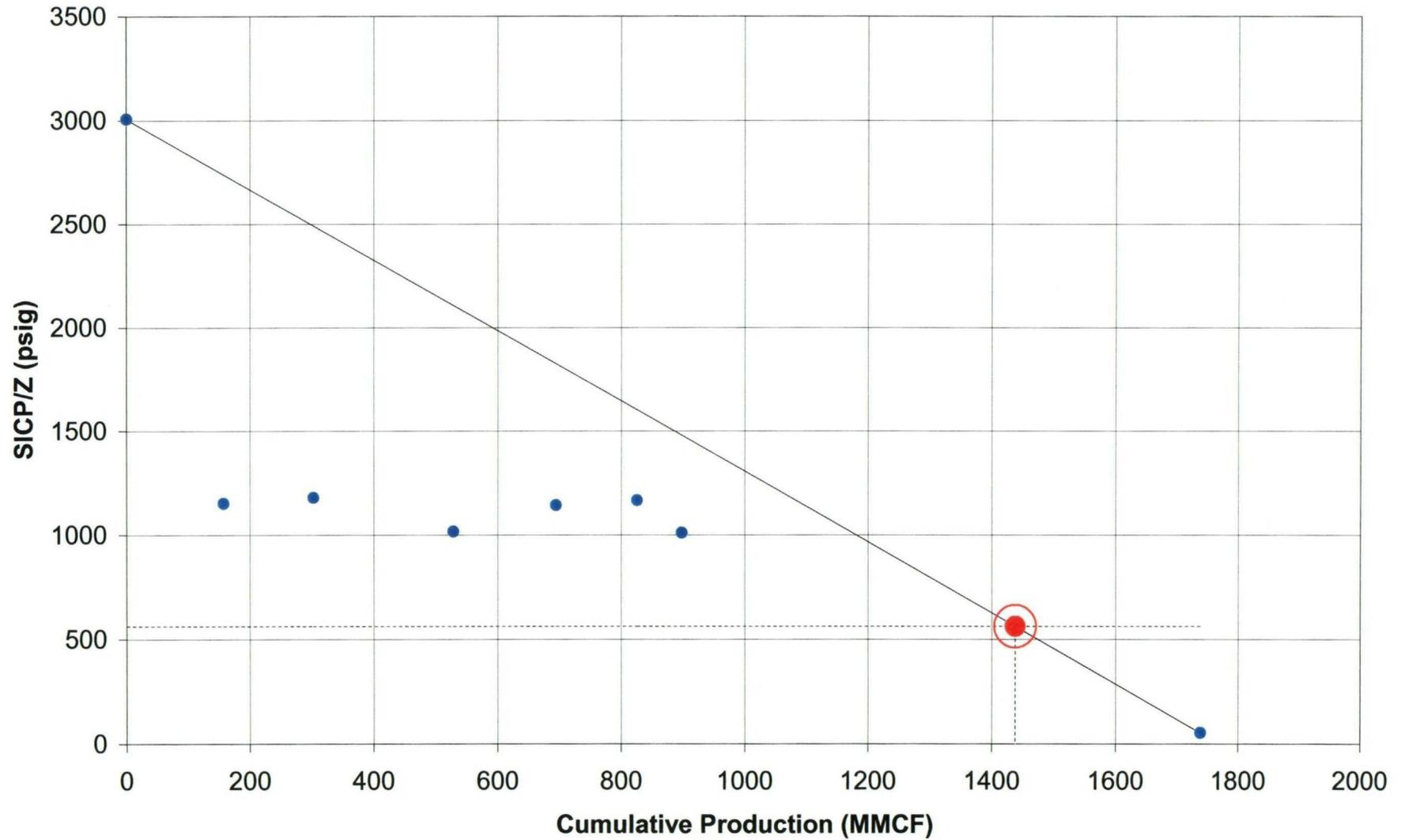
Offset Jicarilla 150 #1E Gallup

NOTE: THESE ARE ESTIMATES OF THE CURRENT RESERVOIR PRESSURE IN EACH ZONE. IT IS REALIZED THAT THE NEAR-WELLBORE PRESSURES FOR EACH ZONE SHOULD BE SIMILAR, DUE TO THEIR COMMINGLED STATUS.

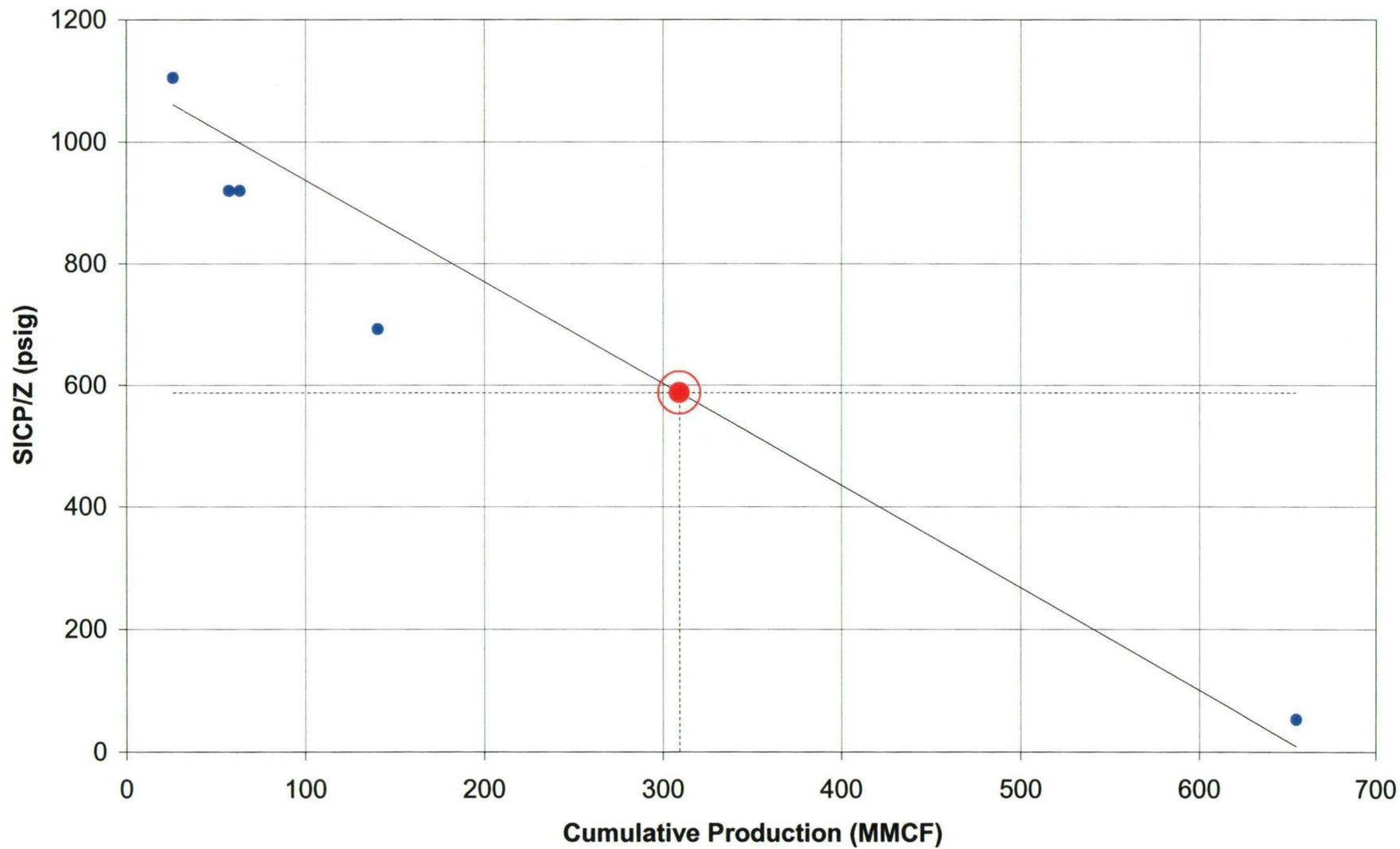
Jicarilla 150 #6 (MV)

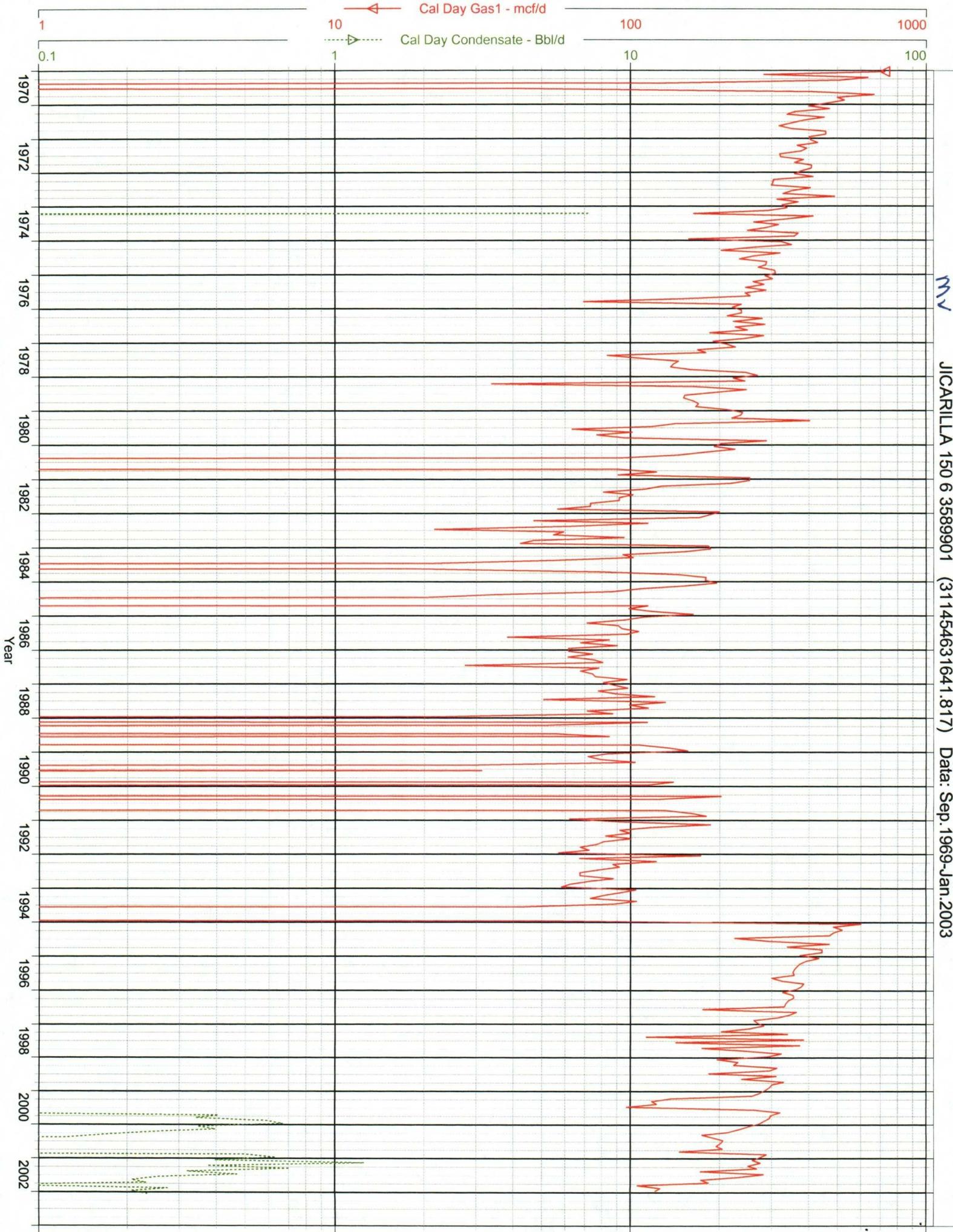


Jicarilla 150 #6 (DK)

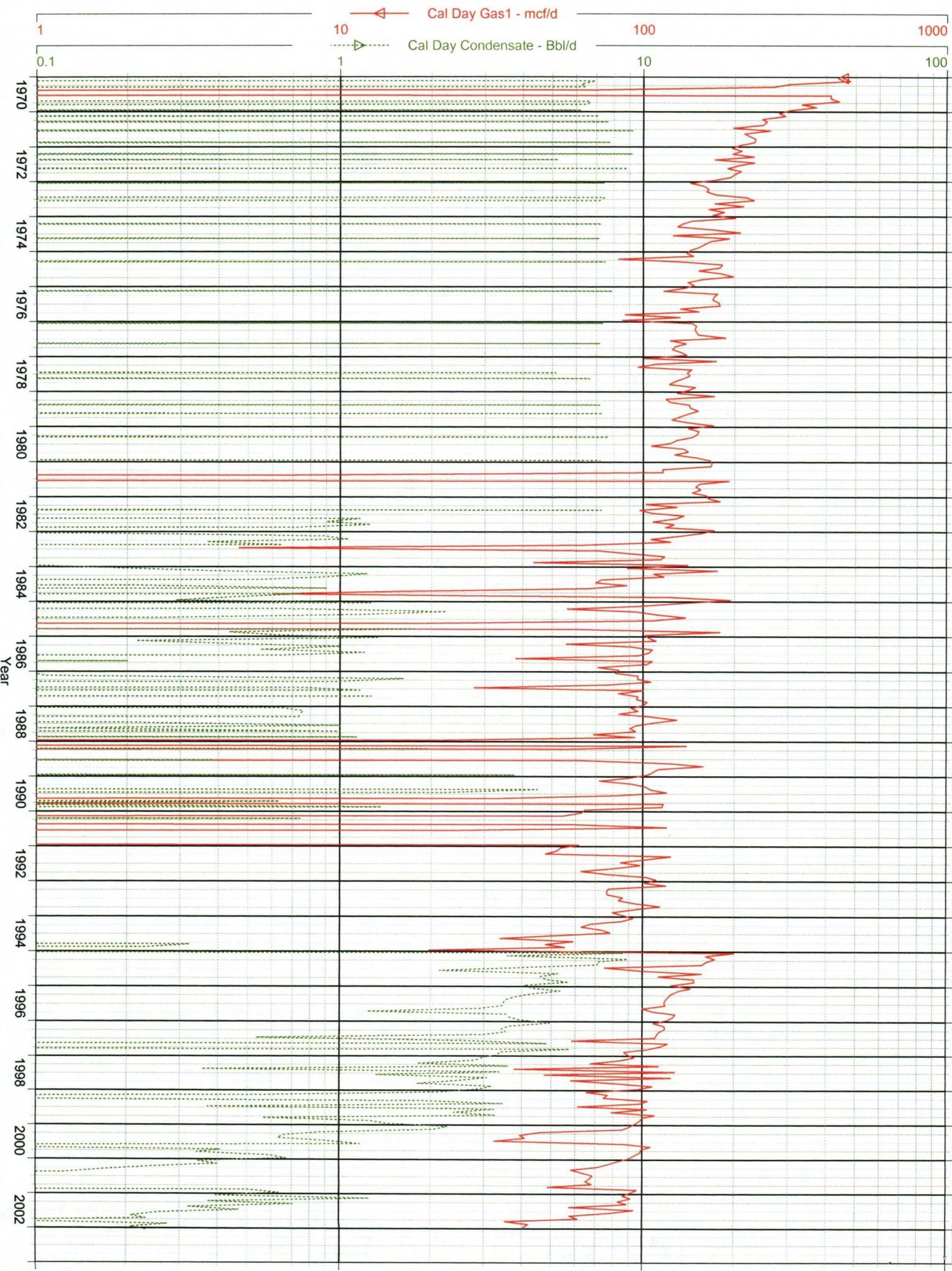


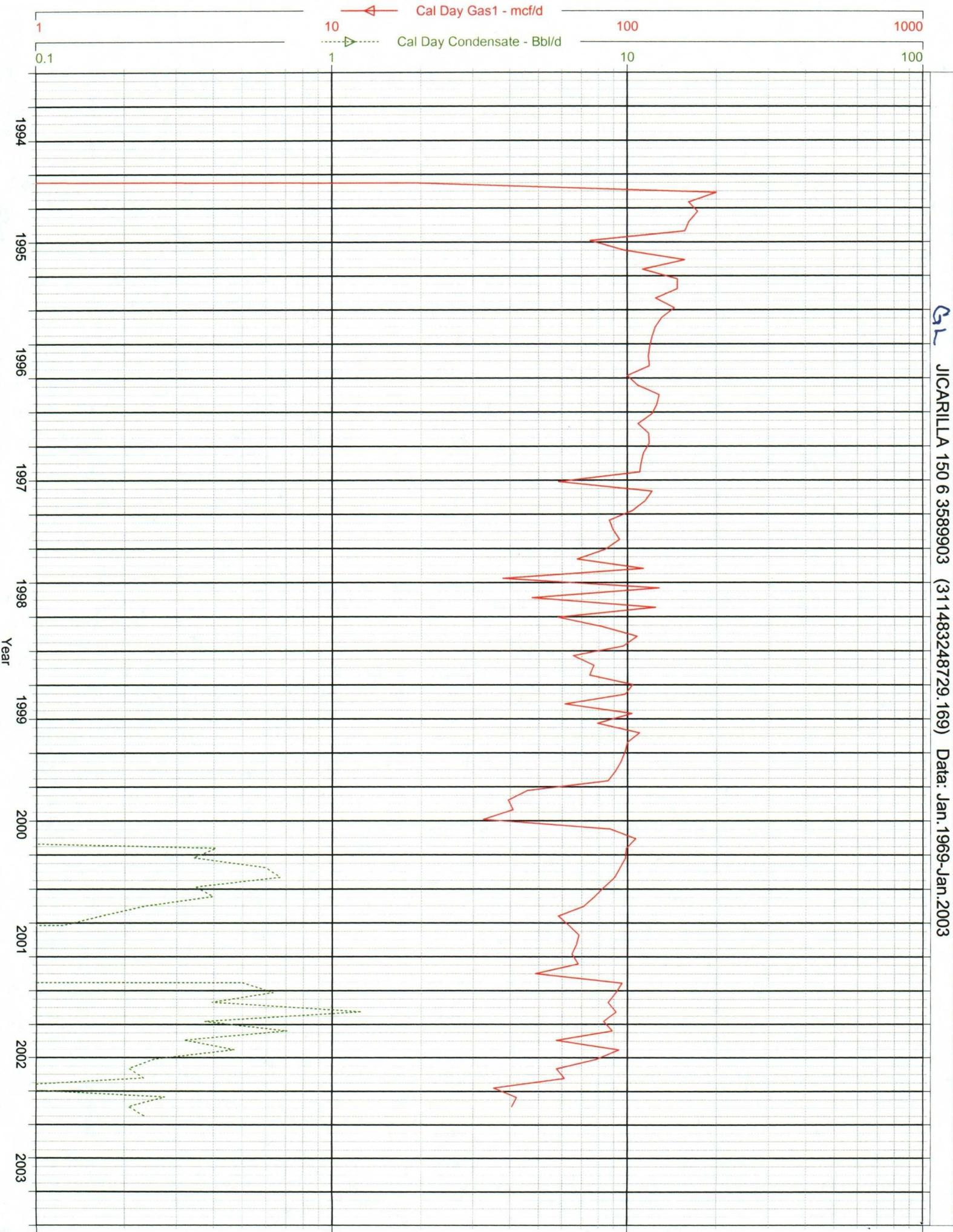
Jicarilla 150 #6 (GL)





WV JICARILLA 150 6 3589901 (311454631641.817) Data: Sep.1969-Jan.2003





GL JICARILLA 150 6 3589903 (311483248729.169) Data: Jan.1969-Jan.2003

TO: New Mexico Oil Conservation Division
FROM: Lewis Implementation Team, Burlington Resources
DATE: December 2, 2002
RE: 2003 Chacra Recompletion Program Expected Production

Chacra-only production from 73 wells completed after 1970 was normalized and forecasted to result in the production model presented in Table 1. A graphical representation of this normalized production forecast is shown in the attached Figure 1. These wells are located in or near the Chacra Fairway in T-27-N, R-08-W; T-27-N, R-09-W; T-28-N, R-08-W; T-28-N, R-09-W; T-28-N, R-10-W; T-28-N, R-11-W; T-29-N, R-09-W; T-29-N, R-10-W; and T-29-N, R-11-W. Actual results from the individual payadds will certainly vary, but this production model represents the average results that should be achieved. Further delineation in the area will be made in 2003.

Table 1: 2003 Chacra production model.

Decline Type	Hyp to Exp
Initial Incremental Rate (MCF/D)	260
Initial Decline (%/yr, effective)	62
Final Decline (%/yr, effective)	1.6
Final Incremental Rate (MCF/D)	15
Hyperbolic Exponent, n	2.0
EUR (MMCF)	496

Figure 1. Graphical representation of the 2003 Chacra production model.

