

3/25/03	SUSPENSE NA	ENGINEER WVJ	LOGGED IN KV	TYPE DHC	PKRVO308627582
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ABOVE THIS LINE FOR DIVISION USE ONLY

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



**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]**

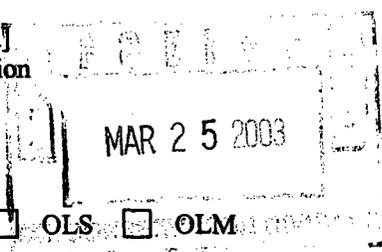
- [A] Location - Spacing Unit - Simultaneous Dedication  
 NSL  NSP  SD

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

pcole@br-inc.com  
 e-mail Address

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

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

District III  
1000 Rio Brazos Road, Aztec, NM 87410

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

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-107A  
Revised May 15, 2000

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

APPLICATION FOR DOWNHOLE COMMINGLING

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

Operator Address  
Jicarilla 153 #10E N-26-26N-5W Rio Arriba

Lease Well No. Unit Letter-Section-Township-Range County  
OGRID No. 14538 Property Code 16579 API No. 30-039-22418 Lease Type: X Federal \_\_\_ State \_\_\_ Fee

DATA ELEMENT	UPPER ZONE <i>UNDESIGNATED</i>	INTERMEDIATE ZONE <i>Pro Gas</i>	LOWER ZONE <i>Pro Gas</i>
Pool Name	OTERO CHACRA	BLANCO MESAVERDE ✓	BASIN DAKOTA ✓
Pool Code	82329 ✓	72319 ✓	71599 ✓
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	WILL BE SUPPLIED UPON COMPLETION	4707'-5382'	7194'-7430'
Method of Production (Flowing or Artificial Lift)	NEW ZONE	ARTIFICIAL LIFT PLUNGER	ARTIFICIAL LIFT PLUNGER
Bottomhole Pressure (Note: Pressure data will not be required if the bottom perforation in the lower zone is within 150% of the depth of the top perforation in the upper zone)	Original 449 psi From Jicarilla 150 #12 offset (see attachment)	Original 1349 psi Current 330 psi	Original 2706 psi Current 1470 psi
Oil Gravity or Gas BTU (Degree API or Gas BTU)	BTU 1240 From Jicarilla 150 #12 offset	BTU 1252	BTU 1252
Producing, Shut-In or New Zone	New Zone	Producing	Producing
Date 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: N/A Rates: (see attachment)	<i>45</i> Date: 12/31/02 Rates: 22 Mcfd	Date: 12/31/02 Rates: 105 Mcfd
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	WILL BE SUPPLIED UPON COMPLETION	WILL BE SUPPLIED UPON COMPLETION	WILL BE SUPPLIED UPON COMPLETION

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 L. Tom Loveland TITLE SENIOR RESERVOIR ENGR 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 30-039-22418	Pool Name OTERO CHACRA (GAS)	Pool Code 82329
Property Code 16579	Property Name JICARILLA 153	Well No. 010E
OGRID No. 14538	Operator Name Burlington Resources Oil and Gas Company	Elevation 6571

**Surface And Bottom Hole Location**

UL or Lot N	Section 26	Township 26N	Range 05W	Lot Idn	Feet From 925	N/S Line S	Feet From 1657	E/W Line W	County Rio Arriba
Dedicated Acres 160		Joint or Infill		Consolidation Code		Order No.			

	□		

**OPERATOR CERTIFICATION**  
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  
Electronically Signed By: *Supay Case*  
Title:  
Date: 1-14-03

**SURVEYOR 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 belief.  
Electronically Signed By: James Leese  
Date of Survey: 2/6/1980  
Certificate Number: 1463

District I  
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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 30-039-22418	Pool Name BLANCO-MESAVERDE (PRORATED GAS)	Pool Code 72319
Property Code 16579	Property Name JICARILLA 153	Well No. 010E
OGRID No. 14538	Operator Name Burlington Resources Oil and Gas Company	Elevation 6571

**Surface And Bottom Hole Location**

UL or Lot N	Section 26	Township 26N	Range 05W	Lot Idn	Feet From 925	N/S Line S	Feet From 1657	E/W Line W	County Rio Arriba
Dedicated Acres 320		Joint or Infill		Consolidation Code		Order No.			


**OPERATOR CERTIFICATION**

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

Electronically Signed By:

Title:

Date:

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State of New Mexico  
Energy, Minerals and Natural Resources  
  
Oil Conservation Division  
1220 S. St Francis Dr.  
Santa Fe, NM 87505

Form C-102

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

API Number 30-039-22418	Pool Name BASIN DAKOTA (PRORATED GAS)	Pool Code 71599
Property Code 16579	Property Name JICARILLA 153	Well No. 010E
OGRID No. 14538	Operator Name Burlington Resources Oil and Gas Company	Elevation 6571

**Surface And Bottom Hole Location**

UL or Lot N	Section 26	Township 26N	Range 05W	Lot Idn	Feet From 925	N/S Line S	Feet From 1657	E/W Line W	County Rio Arriba
Dedicated Acres 320		Joint or Infill		Consolidation Code		Order No.			

	■		

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Date:

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Electronically Signed By: James Leese

Date of Survey: 2/6/1980

Certificate Number: 1463

**Jicarilla 153 #10E**  
**Bottom Hole Pressures**  
**Flowing and Static BHP**  
**Cullender and Smith Method**  
Version 1.0 1/14/98

<b>Chacra</b>	<b>Mesaverde</b>																																																
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<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;">0.721</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;">0.0059</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;">4.5</td></tr> <tr><td>DEPTH (FT)</td><td style="text-align: right; border-bottom: 1px solid black;">5045</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;">123.4</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;">289</td></tr> <tr><td>BOTTOMHOLE PRESSURE (PSIA)</td><td style="text-align: right; border-bottom: 1px solid black; border: 1px solid black;">329.5</td></tr> </table>	GAS GRAVITY	0.721	COND. OR MISC. (C/M)	C	%N2	0.00	%CO2	0.0059	%H2S	0	DIAMETER (IN)	4.5	DEPTH (FT)	5045	SURFACE TEMPERATURE (DEG F)	60	BOTTOMHOLE TEMPERATURE (DEG F)	123.4	FLOWRATE (MCFPD)	0	SURFACE PRESSURE (PSIA)	289	BOTTOMHOLE PRESSURE (PSIA)	329.5
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**Jicarilla 153 #10E**  
**Bottom Hole Pressures**  
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## Jicarilla 153 #10E - SICP/Z Data

**Zone: Mesaverde**

Date	SICP (psig)	Chromatograph Used	Z-Factor	SICP/Z (psig)	Cum Qg (MMCF)	Slope	Y Intercept
12/1/1980	1162	10/1/2002	0.8698	1336	0	N/A	1336
5/16/1981	985	10/1/2002	0.8864	1111	18.799	-11.95291	1336
7/24/1982	833	10/1/2002	0.9019	924	61.74	-6.678548	1336
3/31/1983	771	10/1/2002	0.9085	849	74.025	-6.582745	1336
7/24/1984	786	10/1/2002	0.9069	867	84.024	-5.584721	1336
2/18/1986	760	10/1/2002	0.9097	835	91.355	-5.478617	1336
11/29/1989	816	10/1/2002	0.9037	903	136.605	-3.169611	1336
???	94	N/A	1	94	266.7302	-4.656163	1336
12/31/2002	???	N/A	???	<b>295</b>	223.659	-4.656163	1336

Z-Factor = 0.98  
SICP (psig) = 289

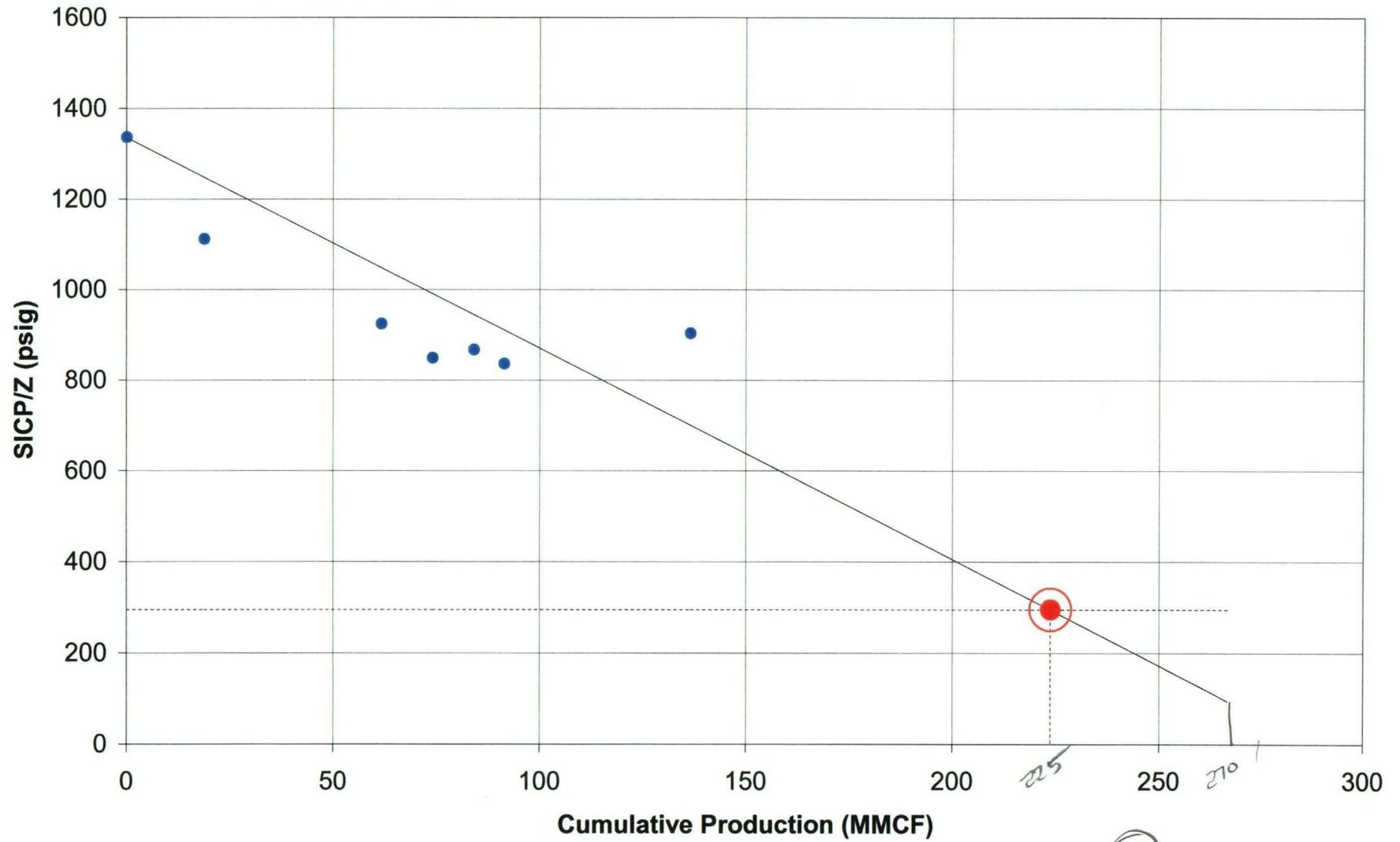
**Zone: Dakota**

Date	SICP (psig)	Chromatograph Used	Z-Factor	SICP/Z (psig)	Cum Qg (MMCF)	Slope	Y Intercept
11/24/1980	2217	10/1/2002	0.8171	2713	0	N/A	2713
7/24/1982	1026	10/1/2002	0.8824	1163	164.031	-9.45258	2713
3/31/1983	996	10/1/2002	0.8853	1125	216.833	-7.324585	2713
11/5/1985	1094	10/1/2002	0.876	1249	352.07	-4.159388	2713
6/15/1988	828	10/1/2002	0.9024	918	495.243	-3.625899	2713
11/2/1990	1009	10/1/2002	0.884	1141	543.706	-2.890995	2713
3/29/1992	902	10/1/2002	0.8947	1008	584.234	-2.918514	2713
???	94	N/A	1	94	1848.449	-1.417001	2713
12/31/2002	???	N/A	???	<b>1255</b>	1028.79	-1.417001	2713

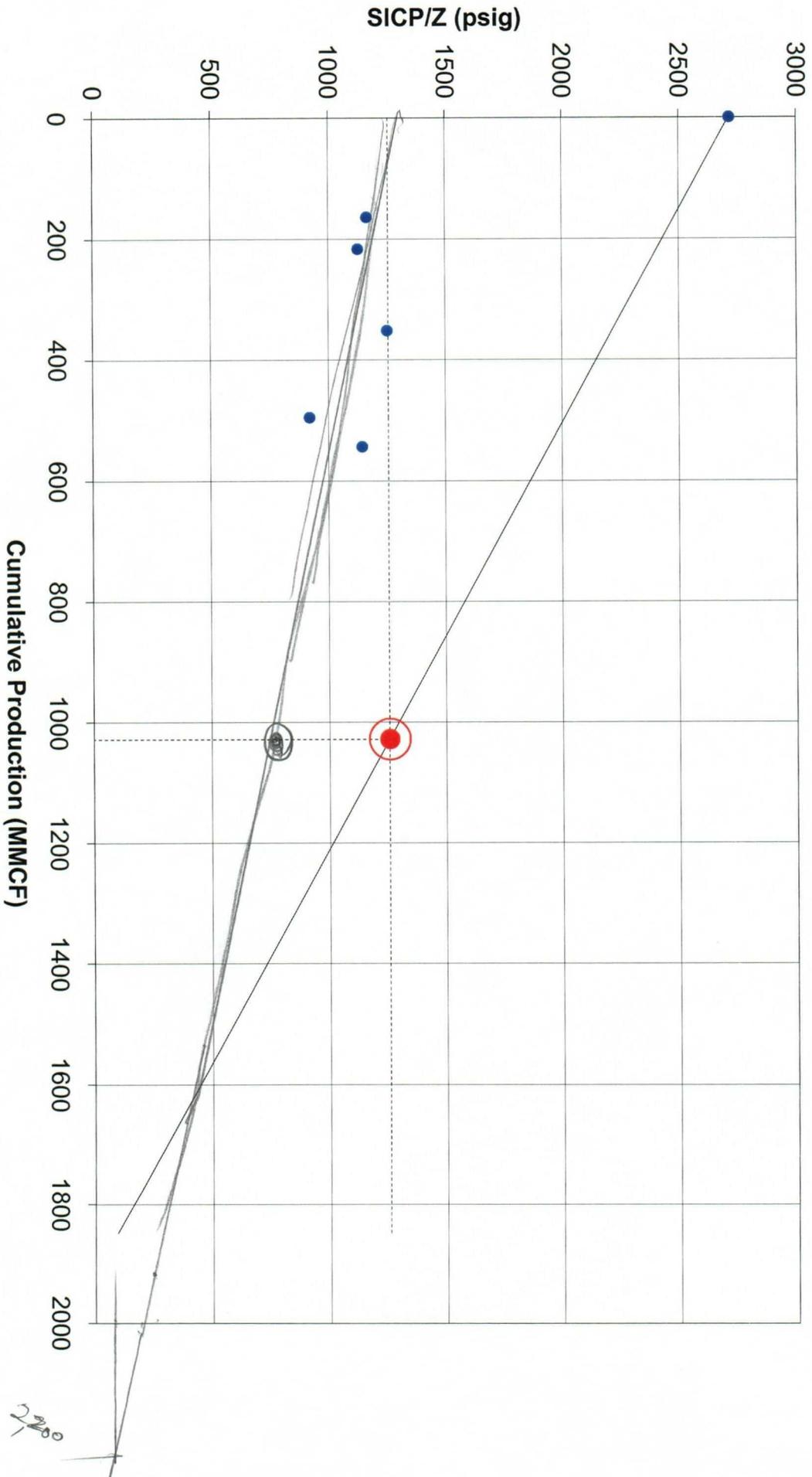
Z-Factor = 0.94  
SICP (psig) = 1180

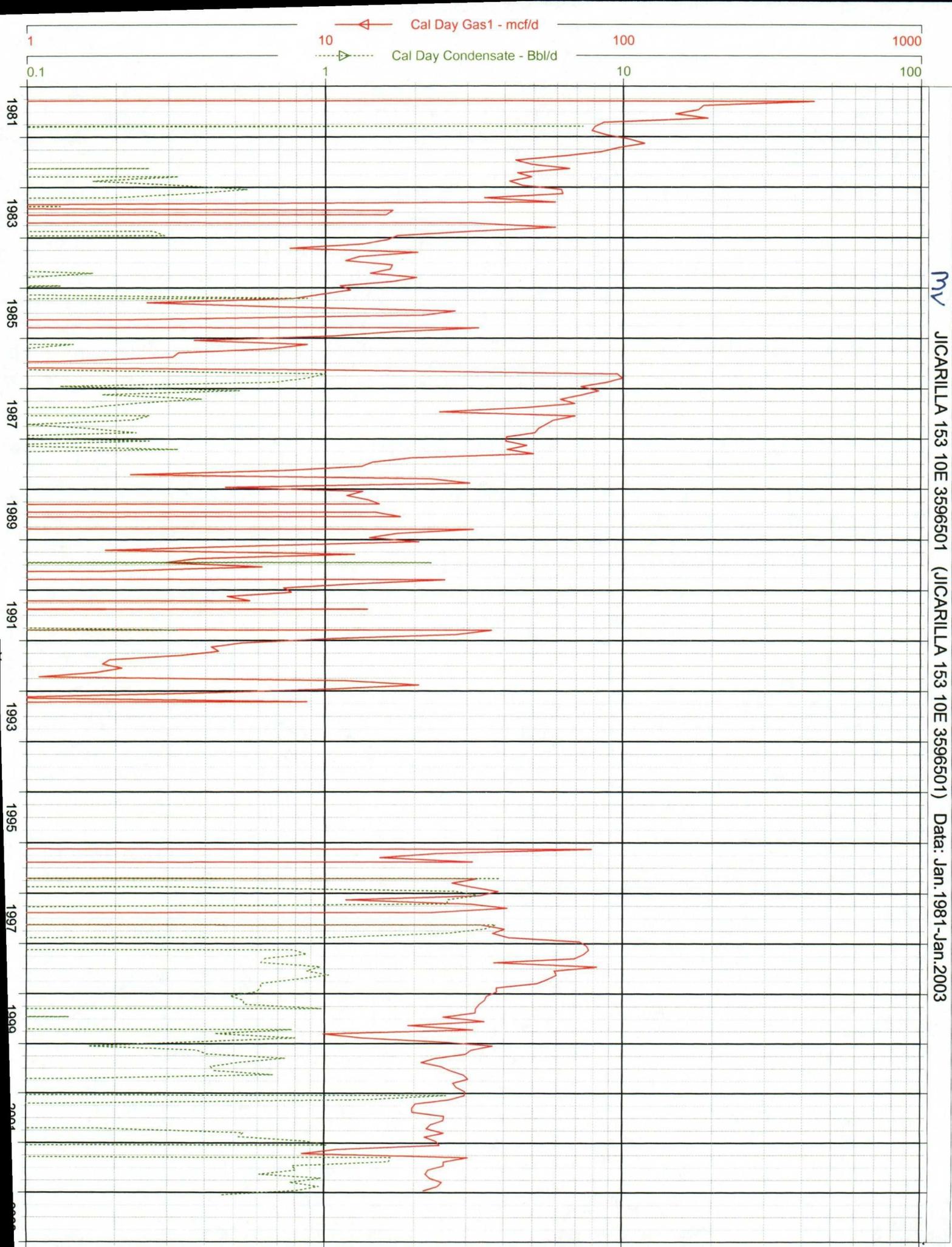
**NOTE: THESE ARE ESTIMATES OF THE CURRENT RESERVOIR PRESSURE IN EACH ZONE. IT IS REALIZED THAT THE NEAR-WELLBORE PRESSURES FOR EACH ZONE SHOULD BE SIMILAR, DUE TO THEIR COMMINGLED STATUS.**

# Jicarilla 153 #10E (MV)

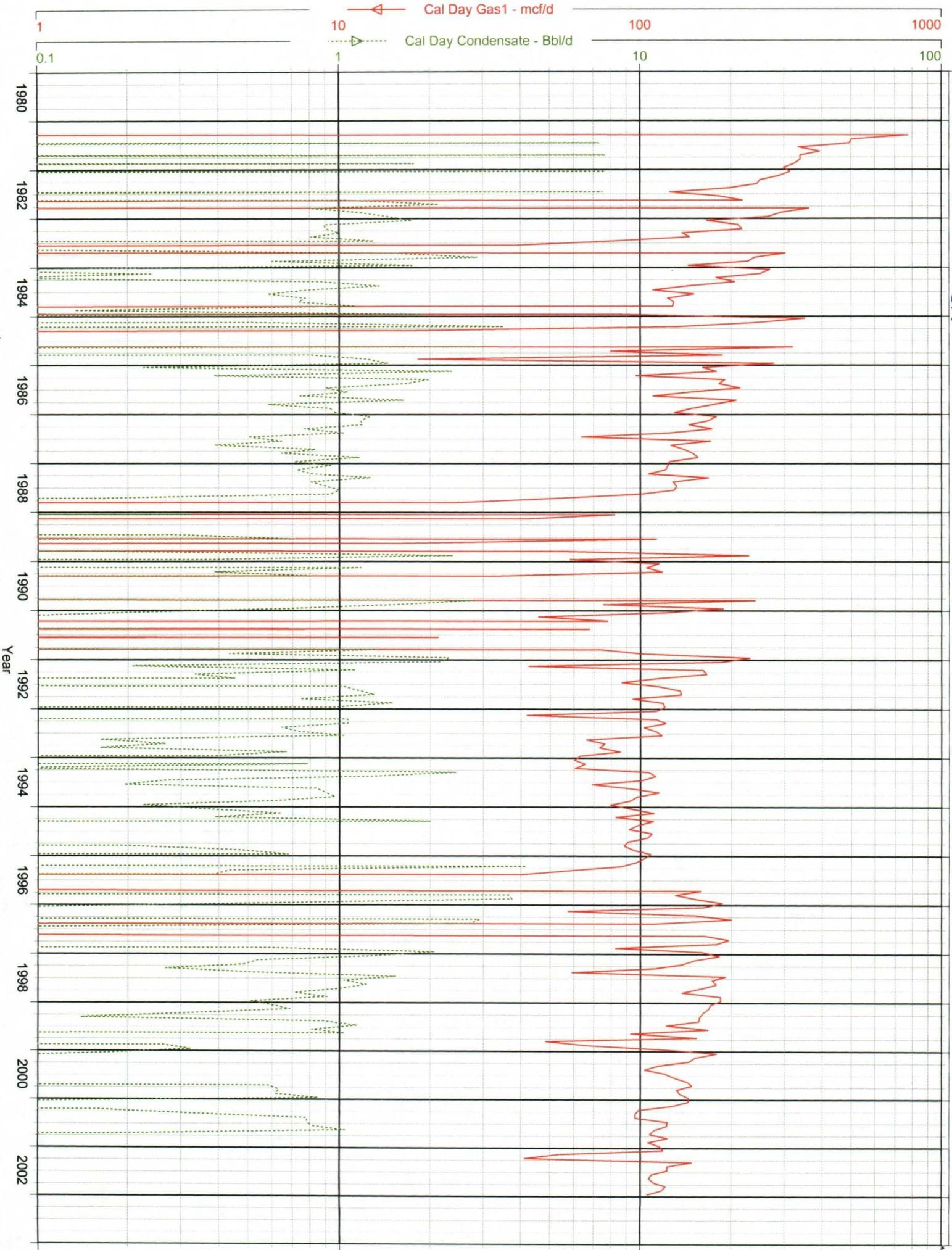


# Jicarilla 153 #10E (DK)





NY JICARILLA 153 10E 3596501 (JICARILLA 153 10E 3596501) Data: Jan. 1981-Jan. 2003



OK

JICARILLA 153 10E 3596502 (317474323230.776) Data: Jan.1980-Dec.2002

**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.**

