

DATE 6/3/03	SUSPENSE NA	ENGINEER WVJ	LOGGED IN M	TYPE DHC	PR R/V0315455502
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6/23/03

AMEND  
#1663

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]

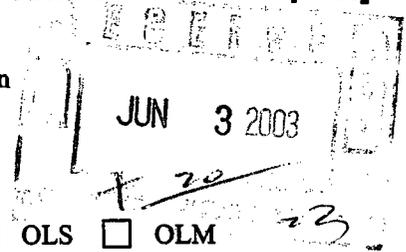
[1] **TYPE OF APPLICATION - Check Those Which Apply for [A]**

- [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. 6-2-03  
Title Date

peole@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 Canyon Largo Unit #250E Address P-01-25N-6W Rio Arriba  
Lease Well No. Unit Letter-Section-Township-Range County  
OGRID No. 14538 Property Code 6886 API No. 30-039-25720 Lease Type: X Federal State Fee

Table with 4 columns: DATA ELEMENT, UPPER ZONE, INTERMEDIATE 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 No X  
If not, have all working, royalty and overriding royalty interest owners been notified by certified mail? 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: DHC-1663

- 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. For zones with no production history, estimated production rates and supporting data. Data to support allocation method or formula. Notification list of working, royalty and overriding royalty interests for uncommon interest cases. 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 Senior Reservoir Engineer DATE 5/7/03  
TYPE OR PRINT NAME L. Tom Loveland TELEPHONE NO. ( 505 ) 326-9700

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

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 30-039-25720	Pool Name OTERO CHACRA (GAS)	Pool Code 82329
Property Code 6886	Property Name CANYON LARGO UNIT	Well No. 250E
OGRID No. 14538	Operator Name Burlington Resources Oil and Gas Company	Elevation 6724

**Surface And Bottom Hole Location**

UL or Lot P	Section 1	Township 25N	Range 06W	Lot Idn	Feet From 1155	N/S Line S	Feet From 1130	E/W Line E	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:  
Title: Regulatory Supervisor  
Date:

**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: Neale Edwards  
Date of Survey: 5/12/1997  
Certificate Number: 6857

District I  
 PO Box 1980, Hobbs, NM 88241-1980  
 District II  
 PO Drawer DD, Artesia, NM 88211-0719  
 District III  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 District IV  
 PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico  
 Energy, Minerals & Natural Resources Department

Form C-102  
 Revised February 21, 1994  
 Instructions on back  
 Submit to Appropriate District Office  
 State Lease - 4 Copies  
 Fee Lease - 3 Copies

OIL CONSERVATION DIVISION  
 PO Box 2088  
 Santa Fe, NM 87504-2088

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-039-25720		Pool Code 72319/71599	Pool Name Blanco Mesaverde/Basin Dakota
Property Code 6886	Property Name Canyon Largo Unit		Well Number 250E
OGRID No. 14538	Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY		Elevation 6724'

<sup>10</sup> Surface Location

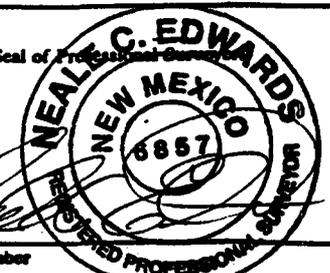
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	1	25-N	6-W		1155	South	1130	East	R.A.

<sup>11</sup> 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

<sup>12</sup> Dedicated Acres MV-E/320.2 DK-E/320.2	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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

16 1318.02 4 1305.48 2610.96	5300.46		1317.36 1317.36 2634.06	<sup>17</sup> 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 Peggy Cole Printed Name Regulatory Supervisor Title  Date	
	3	2			SF-078885
	1				
	5262.84		1155'	<sup>18</sup> 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> 5/12/97  Date of Survey Signature and Seal of Professional Surveyor  Certificate Number	

**Canyon Largo Unit #250E**  
**Bottom Hole Pressures**  
**Flowing and Static BHP**  
**Cullender and Smith Method**  
Version 1.0 1/14/98

<b>Chacra</b>	<b>Mesaverde</b>																																																
<b><u>CH-Current</u></b>	<b><u>MV-Current</u></b>																																																
<table style="width: 100%; border-collapse: collapse;"> <tr><td>GAS GRAVITY</td><td style="text-align: right;">0</td></tr> <tr><td>COND. OR MISC. (C/M)</td><td style="text-align: right;">C</td></tr> <tr><td>%N2</td><td style="text-align: right;">0</td></tr> <tr><td>%CO2</td><td style="text-align: right;">0</td></tr> <tr><td>%H2S</td><td style="text-align: right;">0</td></tr> <tr><td>DIAMETER (IN)</td><td style="text-align: right;">0</td></tr> <tr><td>DEPTH (FT)</td><td style="text-align: right;">0</td></tr> <tr><td>SURFACE TEMPERATURE (DEG F)</td><td style="text-align: right;">0</td></tr> <tr><td>BOTTOMHOLE TEMPERATURE (DEG F)</td><td style="text-align: right;">0</td></tr> <tr><td>FLOWRATE (MCFPD)</td><td style="text-align: right;">0</td></tr> <tr><td>SURFACE PRESSURE (PSIA)</td><td style="text-align: right;">0</td></tr> <tr><td>BOTTOMHOLE PRESSURE (PSIA)</td><td style="text-align: right; 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>GAS GRAVITY</td><td style="text-align: right;">0.701</td></tr> <tr><td>COND. OR MISC. (C/M)</td><td style="text-align: right;">C</td></tr> <tr><td>%N2</td><td style="text-align: right;">0.0049</td></tr> <tr><td>%CO2</td><td style="text-align: right;">0.0055</td></tr> <tr><td>%H2S</td><td style="text-align: right;">0</td></tr> <tr><td>DIAMETER (IN)</td><td style="text-align: right;">4.5</td></tr> <tr><td>DEPTH (FT)</td><td style="text-align: right;">5217</td></tr> <tr><td>SURFACE TEMPERATURE (DEG F)</td><td style="text-align: right;">60</td></tr> <tr><td>BOTTOMHOLE TEMPERATURE (DEG F)</td><td style="text-align: right;">119.1</td></tr> <tr><td>FLOWRATE (MCFPD)</td><td style="text-align: right;">0</td></tr> <tr><td>SURFACE PRESSURE (PSIA)</td><td style="text-align: right;">813</td></tr> <tr><td>BOTTOMHOLE PRESSURE (PSIA)</td><td style="text-align: right; border: 1px solid black;">941.8</td></tr> </table>	GAS GRAVITY	0.701	COND. OR MISC. (C/M)	C	%N2	0.0049	%CO2	0.0055	%H2S	0	DIAMETER (IN)	4.5	DEPTH (FT)	5217	SURFACE TEMPERATURE (DEG F)	60	BOTTOMHOLE TEMPERATURE (DEG F)	119.1	FLOWRATE (MCFPD)	0	SURFACE PRESSURE (PSIA)	813	BOTTOMHOLE PRESSURE (PSIA)	941.8
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**Canyon Largo Unit #250E**  
**Bottom Hole Pressures**  
**Flowing and Static BHP**  
**Cullender and Smith Method**  
Version 1.0 1/14/98

<b>Dakota</b>			
<u><b>DK-Current</b></u>		<u><b>Current</b></u>	
GAS GRAVITY	0.701	GAS GRAVITY	0
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.0049	%N2	0.00
%CO2	0.0055	%CO2	0
%H2S	0	%H2S	0
DIAMETER (IN)	2.375	DIAMETER (IN)	0
DEPTH (FT)	7256	DEPTH (FT)	0
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	0
BOTTOMHOLE TEMPERATURE (DEG F)	142.2	BOTTOMHOLE TEMPERATURE (DEG F)	0
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	449	SURFACE PRESSURE (PSIA)	0
BOTTOMHOLE PRESSURE (PSIA)	540.3	BOTTOMHOLE PRESSURE (PSIA)	#DIV/0!
<u><b>DK-Original</b></u>		<u><b>Original</b></u>	
GAS GRAVITY	0.701	GAS GRAVITY	0
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.0049	%N2	0.00
%CO2	0.0055	%CO2	0
%H2S	0	%H2S	0
DIAMETER (IN)	2.375	DIAMETER (IN)	0
DEPTH (FT)	7256	DEPTH (FT)	0
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	0
BOTTOMHOLE TEMPERATURE (DEG F)	142.2	BOTTOMHOLE TEMPERATURE (DEG F)	0
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	672	SURFACE PRESSURE (PSIA)	0
BOTTOMHOLE PRESSURE (PSIA)	815.4	BOTTOMHOLE PRESSURE (PSIA)	#DIV/0!

## Canyon Largo Unit #250E - SICP/Z Data

**Zone: Mesaverde**

Date	SICP (psig)	Chromatograph Used	Z-Factor	SICP/Z (psig)	Cum Qg (MMCF)	Slope	Y Intercept
4/23/1998	1081	10/1/2002	0.8236	1313	0	N/A	1313
???	43	N/A	1	43	802.9555	-1.581072	1313
3/31/2003	???	10/1/2002	???	<b>903</b>	259.08	-1.581072	1313

Z-Factor = 0.9  
SICP (psig) = 813

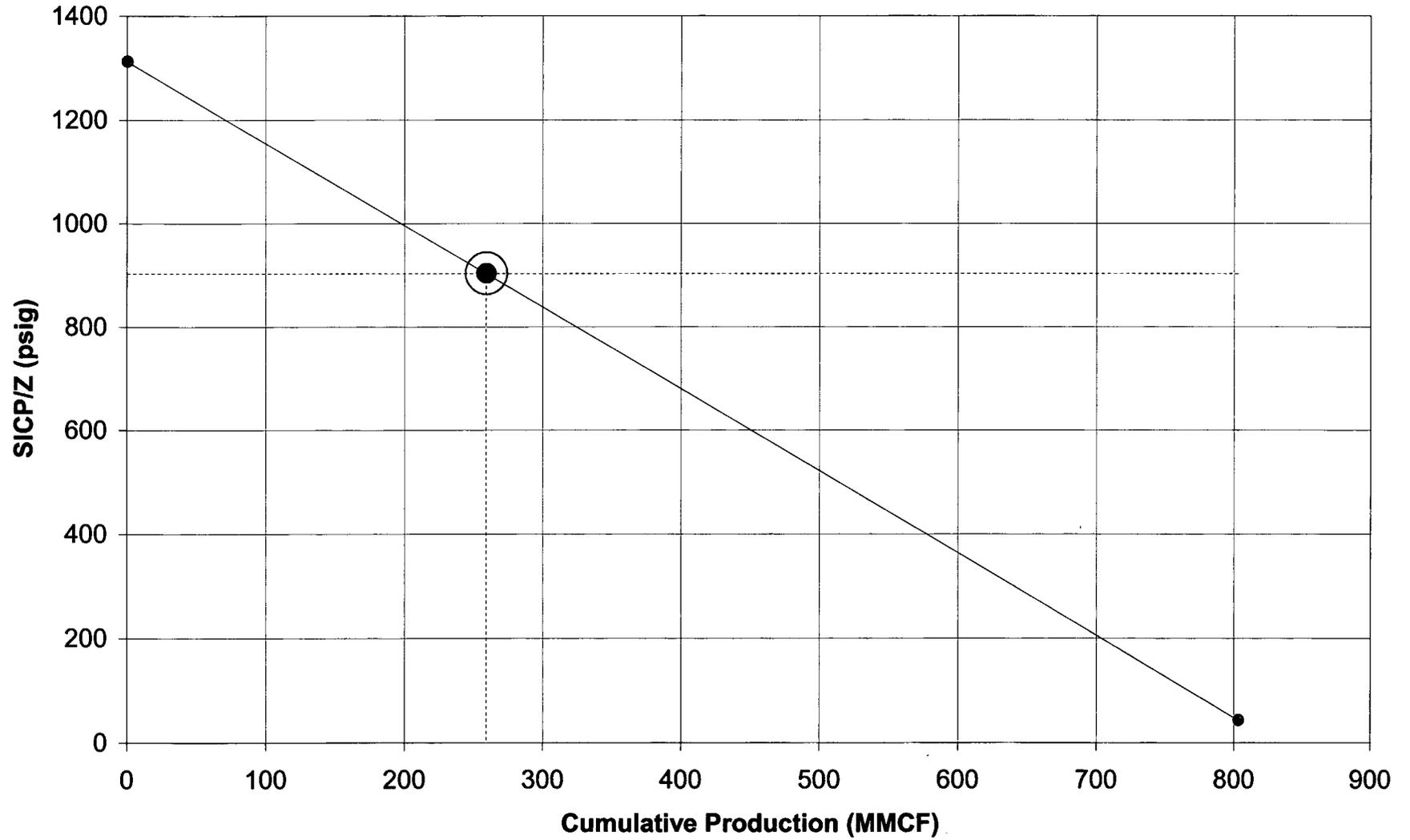
**Zone: Dakota**

Date	SICP (psig)	Chromatograph Used	Z-Factor	SICP/Z (psig)	Cum Qg (MMCF)	Slope	Y Intercept
4/23/1998	672	10/1/2002	0.8355	804	0	N/A	804
???	43	N/A	1	43	238.7536	-3.18868	804
3/31/2003	???	10/1/2002	???	<b>499</b>	95.86	-3.18868	804

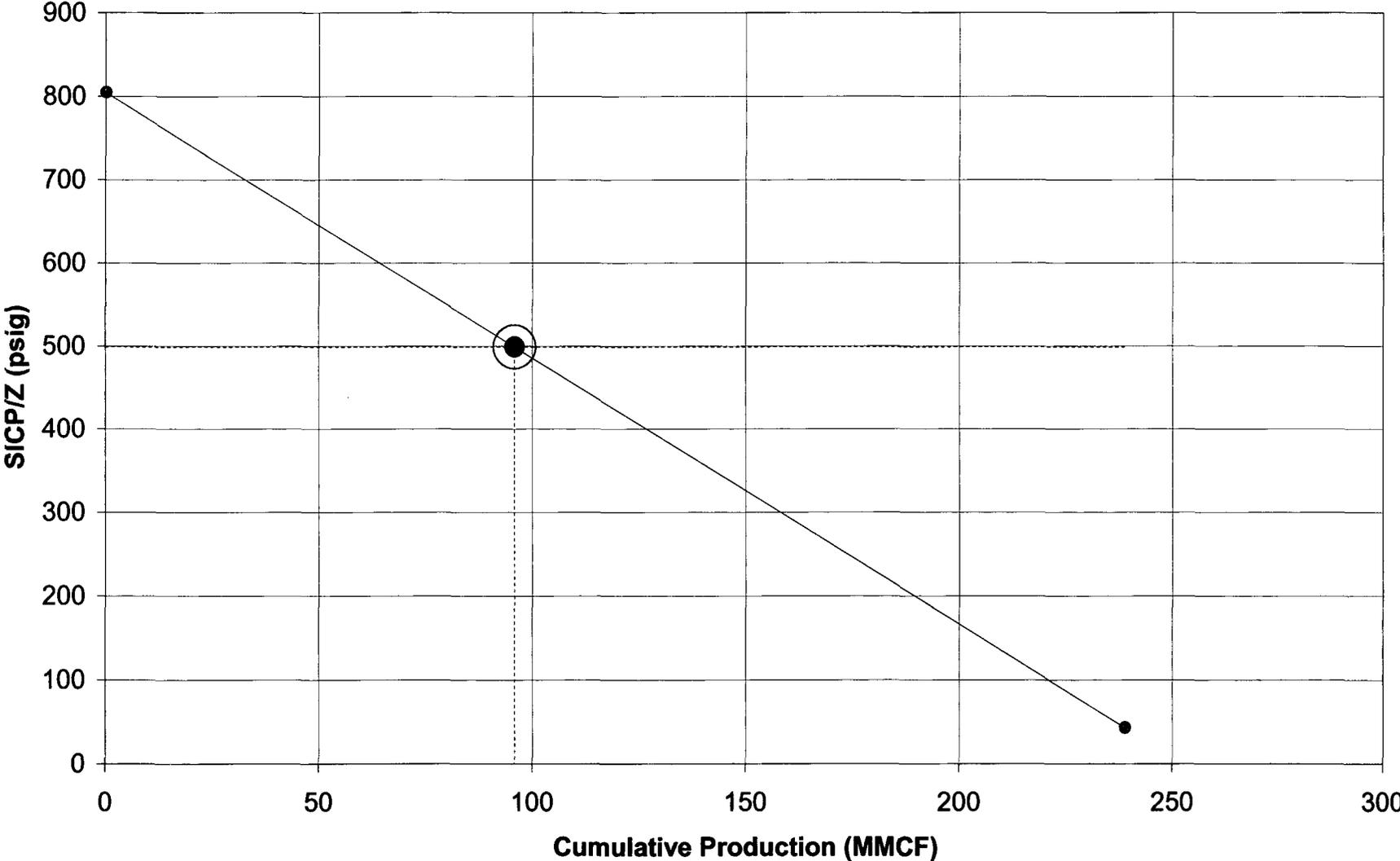
Z-Factor = 0.9  
SICP (psig) = 449

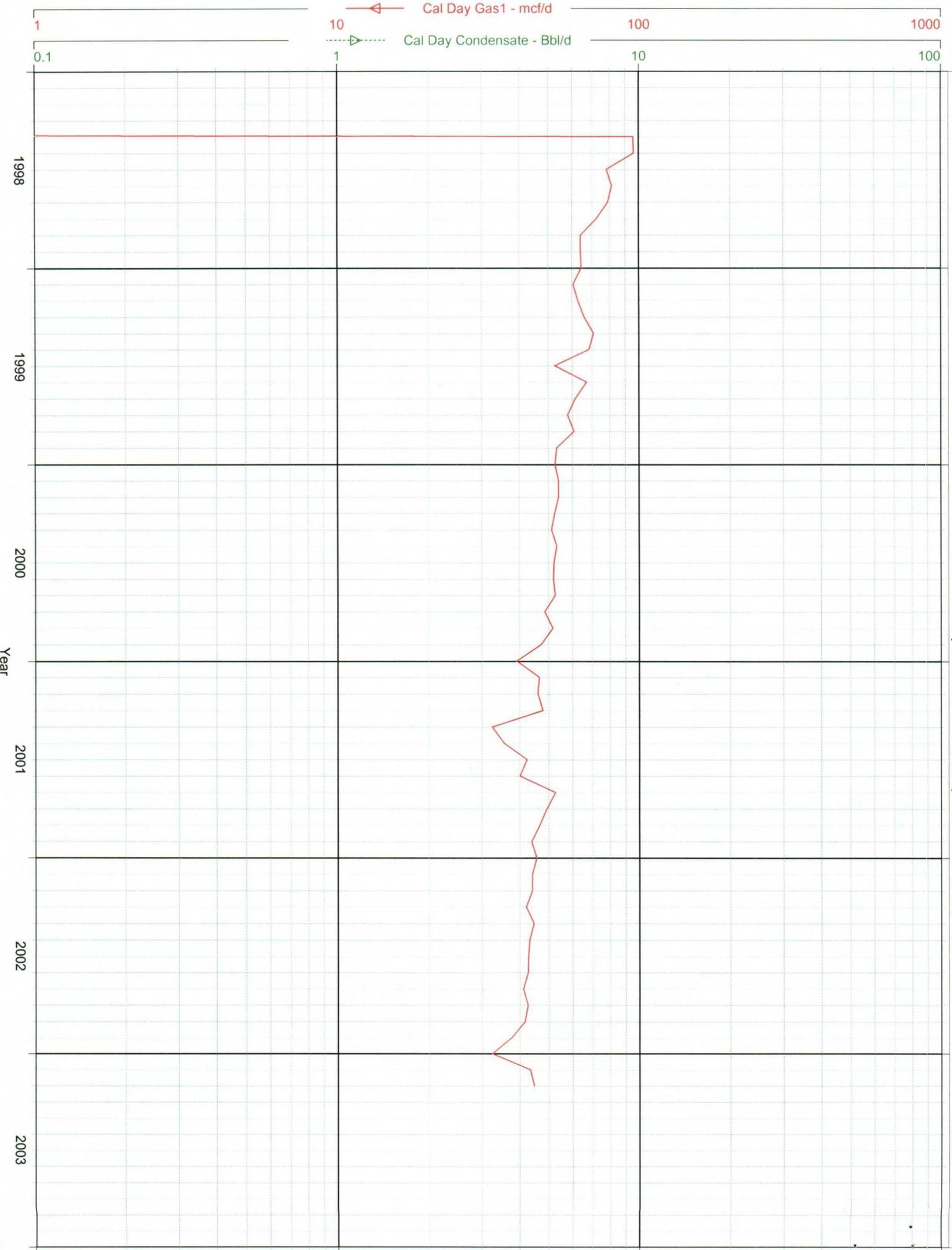
**NOTE: THESE ARE ESTIMATES OF THE CURRENT RESERVOIR PRESSURE IN EACH ZONE. IT IS REALIZED THAT THE NEAR-WELLBORE PRESSURES FOR EACH ZONE SHOULD BE SIMILAR, DUE TO THEIR COMMINGLED STATUS.**

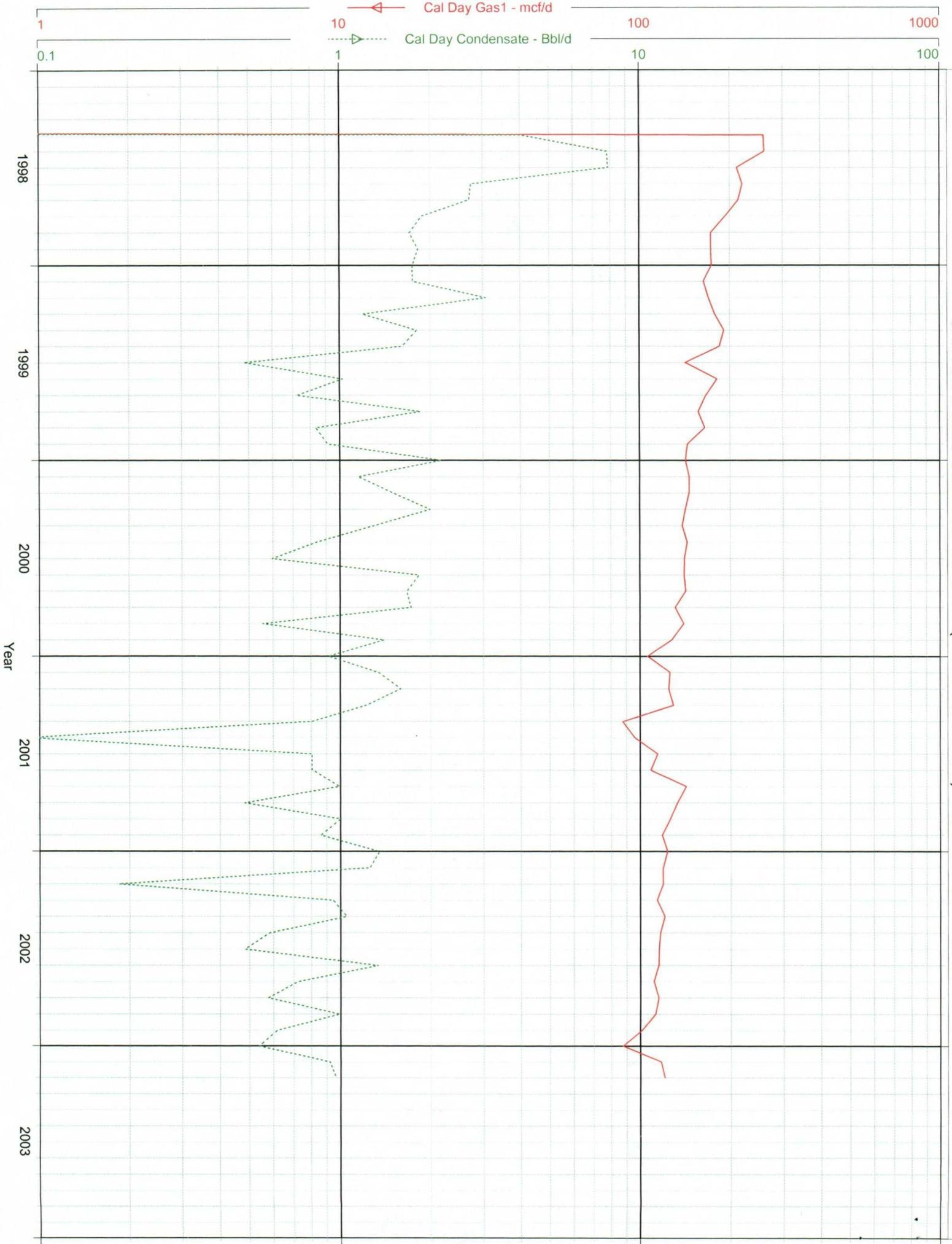
### Canyon Largo Unit #250E (MV)



# Canyon Largo Unit #250E (DK)







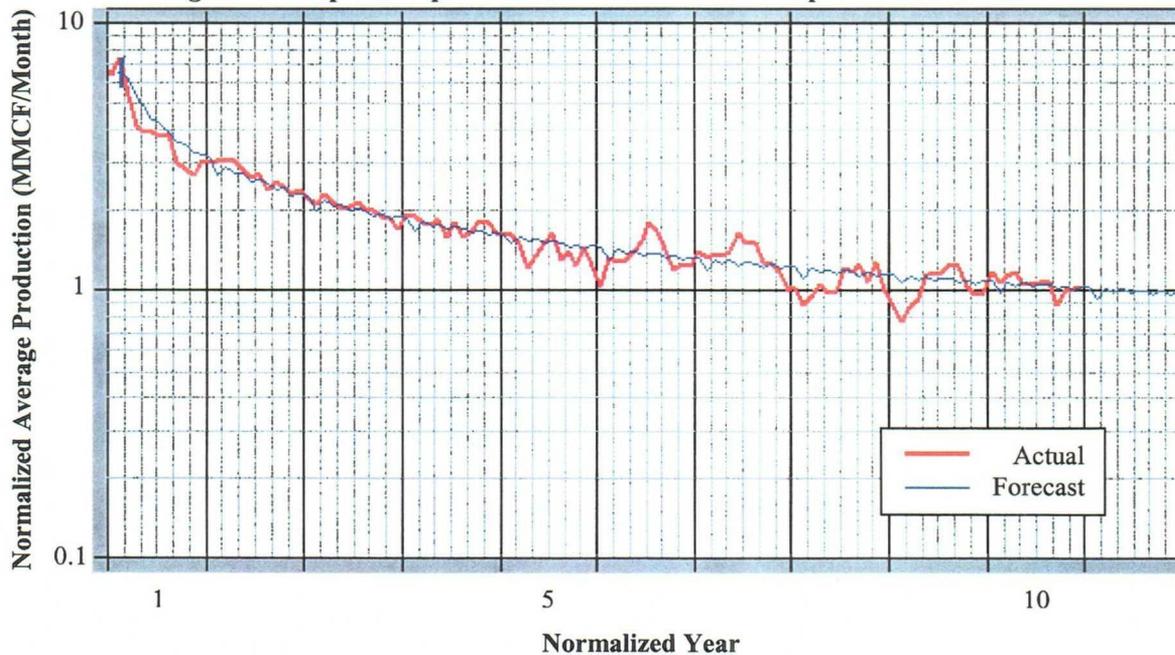
**TO:** New Mexico Oil Conservation Division  
**FROM:** Lewis Implementation Team, Burlington Resources  
**DATE:** December 2, 2002  
**RE:** 2003 Chacra Recompletion Program Expected Production

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.**



Canyon Largo Unit #250E  
Production Allocation Method  
Mesaverde and Dakota based on remaining reserves.  
Chacra based on production model.

	Gas		Oil	
	Allocation	Volume	Allocation	Volume
Chacra	53%	496	0%	0
Mesaverde	37%	352	100%	2.67
Dakota	10%	90	0%	0

Oil production was originally allocated 100% to the Mesaverde. The Chacra formation will not have any oil production, therefore resulting in the oil allocation remaining w/ 100% to the Mesaverde.

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