

DATE 6/3/03	SUSPENSE	ENGINEER WVS	LOGGED IN	TYPE DHC	PRV0315455502
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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

Signature

Title

Date

e-mail Address

REGULATORY Supr. 6-2-03
peole@br-inc.com

District I
1625 N. Franch 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		
Canyon Largo Unit	#250E	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

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
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	5129'-5304'	7142'-7369'
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 1026 psi from Canyon Largo Unit #151 offset (see attachment)	Original – 1263 psi Current – 942 psi	Original – 815 psi Current – 540 psi
Oil Gravity or Gas BTU (Degree API or Gas BTU)	BTU 1169	BTU 1220	BTU 1220
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	Date: 3/31/03 Rates: 121 Mcfd	Date: 3/31/03 Rates: 45 Mcfd
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	Gas 53% Oil 0%	Gas 38% Oil 100%	Gas 10% Oil 0%

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. (If not available, attach explanation.)
 - 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 L. Tom Loveland TITLE Senior Reservoir Engineer DATE 5/7/03
nxo
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

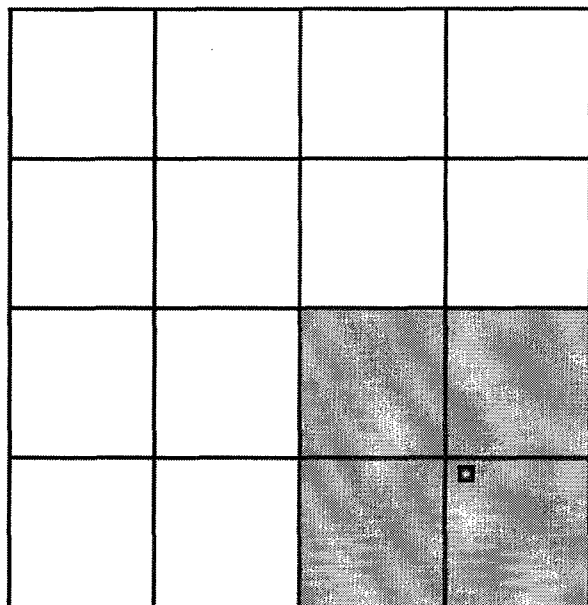
Form C-102

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

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

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

☐ 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'

¹⁰ 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.

¹¹ 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

¹² Dedicated Acres MV-E/320.2 DK-E/320.2	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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 3 1 5262.84	2 1155'	1 1130'	1317.36 1317.36 2634.06
	SF-078885			

¹⁷ OPERATOR CERTIFICATION

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

Signature
Peggy Cole
Printed Name
Regulatory Supervisor
Title
Date

¹⁸ 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.

5/12/97

Date of Survey
Signature and Seal of Professional Surveyor
NEALE C. EDWARDS
NEW MEXICO
6857
6857
Certificate Number

Canyon Largo Unit #250E
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>	
GAS GRAVITY	0	GAS GRAVITY	0.701
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0	%N2	0.0049
%CO2	0	%CO2	0.0055
%H2S	0	%H2S	0
DIAMETER (IN)	0	DIAMETER (IN)	4.5
DEPTH (FT)	0	DEPTH (FT)	5217
SURFACE TEMPERATURE (DEG F)	0	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	0	BOTTOMHOLE TEMPERATURE (DEG F)	119.1
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	0	SURFACE PRESSURE (PSIA)	813
BOTTOMHOLE PRESSURE (PSIA)	#DIV/0!	BOTTOMHOLE PRESSURE (PSIA)	941.8

<u>CH-Original</u>		<u>MV-Original</u>	
GAS GRAVITY	0.663	GAS GRAVITY	0.701
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.42	%N2	0.0049
%CO2	0.24	%CO2	0.0055
%H2S	0	%H2S	0
DIAMETER (IN)	2.875	DIAMETER (IN)	4.5
DEPTH (FT)	3785	DEPTH (FT)	5217
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	93	BOTTOMHOLE TEMPERATURE (DEG F)	119.1
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	924	SURFACE PRESSURE (PSIA)	1081
BOTTOMHOLE PRESSURE (PSIA)	1025.9	BOTTOMHOLE PRESSURE (PSIA)	1262.5

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

Dakota			
<u>DK-Current</u>		<u>Current</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>DK-Original</u>		<u>Original</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

<u>Date</u>	<u>SICP (psig)</u>	<u>Chromatograph Used</u>	<u>Z-Factor</u>	<u>SICP/Z (psig)</u>	<u>Cum Qg (MMCF)</u>	<u>Slope</u>	<u>Y Intercept</u>
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	???	903	259.08	-1.581072	1313

Z-Factor = 0.9
SICP (psig) = 813

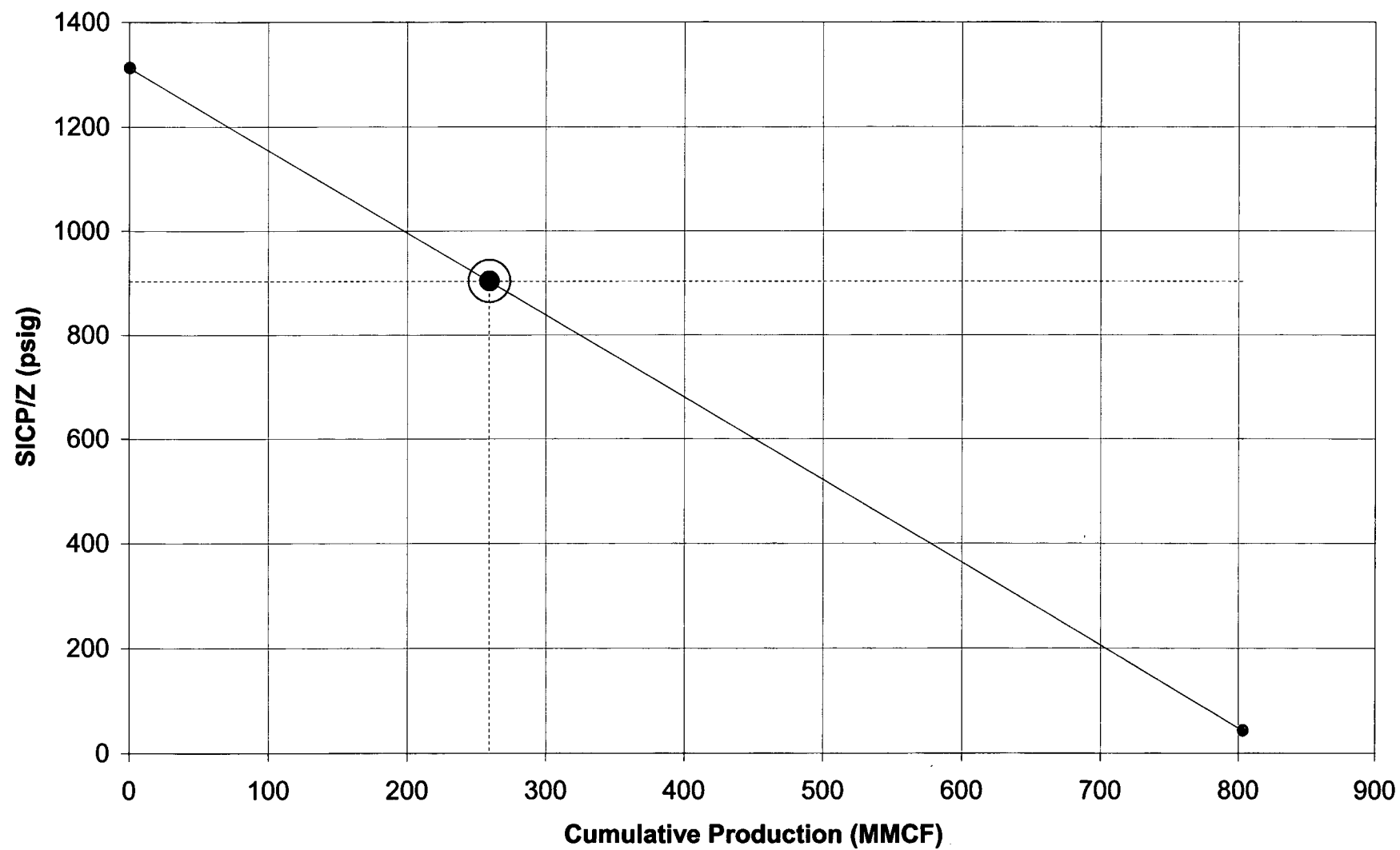
Zone: Dakota

<u>Date</u>	<u>SICP (psig)</u>	<u>Chromatograph Used</u>	<u>Z-Factor</u>	<u>SICP/Z (psig)</u>	<u>Cum Qg (MMCF)</u>	<u>Slope</u>	<u>Y Intercept</u>
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	???	499	95.86	-3.18868	804

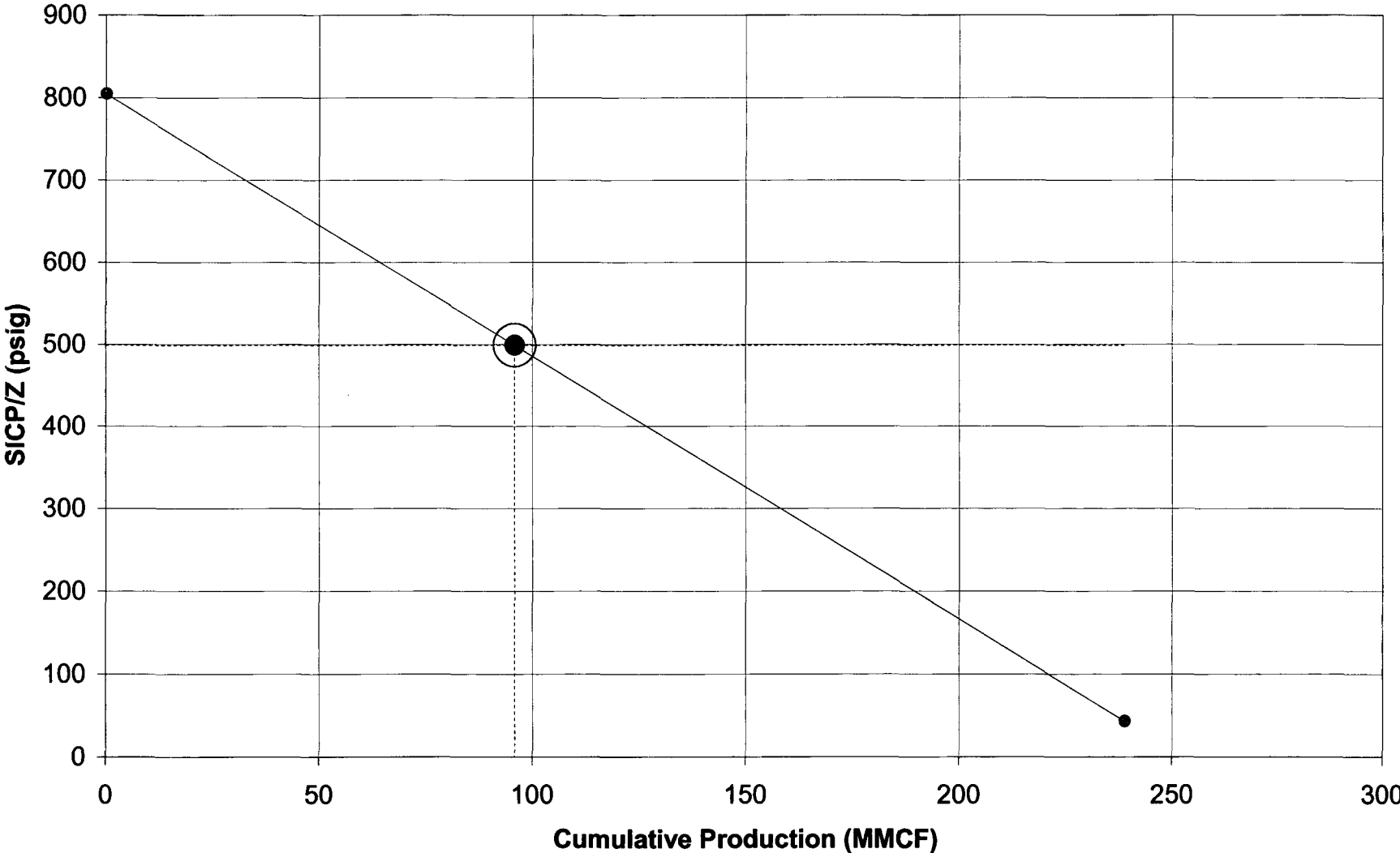
Z-Factor = 0.9
SICP (psig) = 449

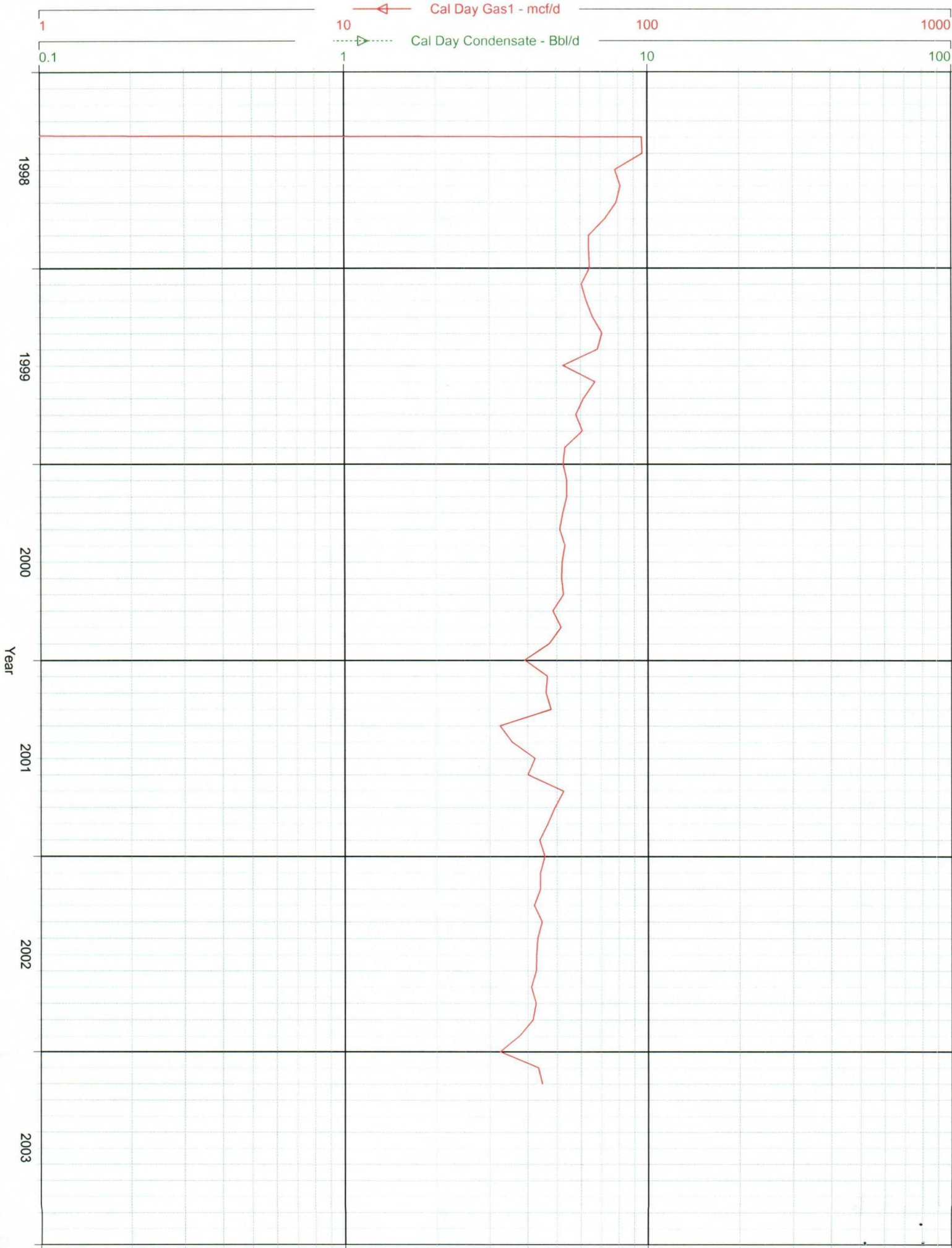
NOTE: THESE ARE ESTIMATES OF THE CURRENT RESERVOIR PRESSURE IN EACH ZONE. IT IS REALIZED THAT THE NEAR-WELLBORE PRESSURES FOR EACH ZONE SHOULD BE SIMILAR, DUE TO THEIR COMMINGLED STATUS.

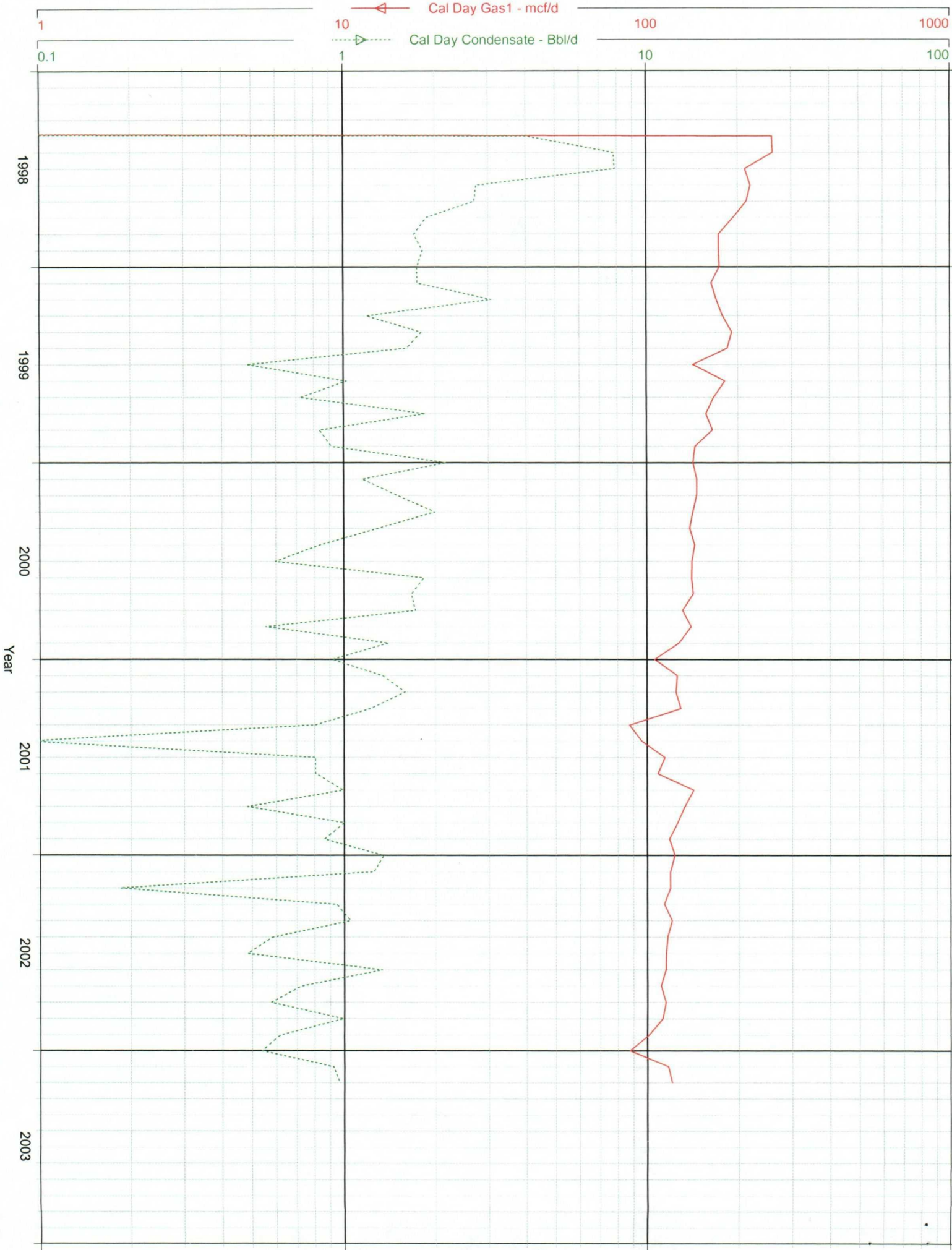
Canyon Largo Unit #250E (MV)



Canyon Largo Unit #250E (DK)







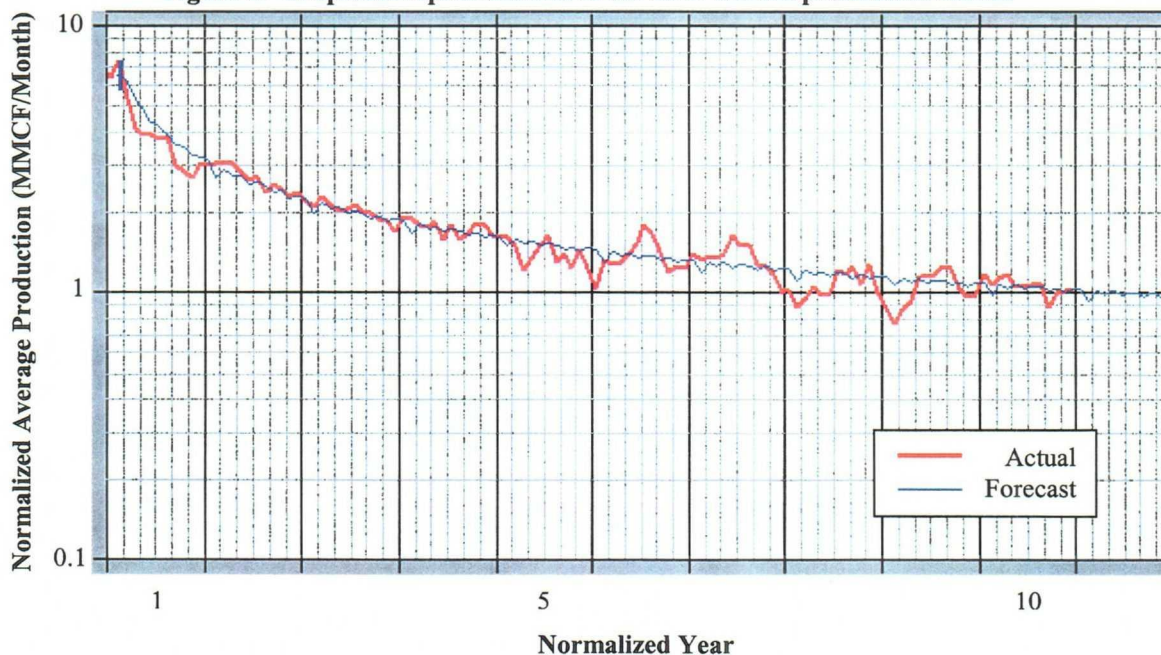
TO: New Mexico Oil Conservation Division
FROM: Lewis Implementation Team, Burlington Resources
DATE: December 2, 2002
RE: 2003 Chacra Recompletion Program Expected Production

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.

INTEREST OWNERS

CLU~~278,279,250E~~,NP238 Well

A G HILL BY A G HILL COMPANY

ANITA BRIGGS

ANN HOME EMMERSON TR

ANNA LOU HOME TRUSTEE OF THE TOM S & ANNA LOU HOME

BARRON U KIDD

BOLACK MINERALS CO

BONANZA CREEK MINERALS LLC

BP AMERICA PRODUCTION COMPANY

BRIAN DICKEY

BRIAN DOWNING GIBSON

BUREAU OF LAND MANAGEMENT

CAROLYN BEAMON TILLEY

CASSANDRA KEYSER

CATHRYN BEAMON

CHARLES S LONGCOPE JR

CHASE OIL CORPORATION

CLAUDIA MARCIA LUNDELL GILMER

DEBRA LEE DUPRAY

DIANNA DICKEY

EDMUND M LONGCOPE

ELIZABETH S BAYER

FASKEN FAMILY LTD PTSHP

FOUR STAR OIL & GAS COMPANY

FRANK ANDREW FASKEN

G R FASKEN

GEISLER FAMILY LTD PARTNERSHIP

GURDON RANSON MILLER III

CLU 178,279,250E,NP238 Well

H LIMITED PTSHP

INEZ TRUBY TRUSTEE INEZ TRUBY REVOCABLE TRUST

INITIAL CO-TRSTEES JAFFA D WAHLBERG

IRIS V BALBACH

JACK B WILKINSON JR

JAMES ROBERT BEAMON

JANE MANNING PITKIN

JOHN DICKEY

KATHLEEN COLWILL

KATHLYN NORA BLACK-TRUSTEE MABEL GLENN HAM REVOC TRUST

KAY BETH STAVLEY

KAY LONGCOPE

KIMBELL OIL COMPANY OF TEXAS

LINDA CALVERT

LINDA JEANNE LUNDELL LINDSEY

LINDA PAYNE TRUSTEE ELIZABETH WHITE FAMILY TRUST

LORNA R HARVEY

LOU ANN PATTERSON

LOWE ROYALTY PARTNERS LP

LOY SUE SIEGENTHALER

MARTHA K WILLIAMSON

MARTHA LOU DIXON

MARTHA NOBLES BLACK FAMILY

MARTHA NOBLES BLACK IND

MARY ANN HONEY

MATIAS A & EMELINE L ZAMORA TR

MERRION OIL AND GAS CORP

PATSY R CUMMINS

PATTI JO PECK WOOD

CLU 178,279,250E,NP238 Well

RICHARD TULLY D/B/A

ROBERT & THELMA SMITH REV TRST

ROBERT BEAMON

ROBERT L BAYLESS

ROBERT WALTER LUNDELL

ROWENA DALE LAABS

SEALY & COMPANY LP

SHARON BEAMON BURNS

SPEEREX LIMITED PARTNERSHIP

STATE OF NEW MEXICO

STATES INC

STEVEN PRICE FASKEN TRUSTEE STEVEN PRICE FASKEN REVOC TRUST

SUSAN BEAMON PORTER

TERESA HOME

THE FASKEN FOUNDATION

THE WISER OIL COMPANY

THEODORE J BLECHAR

THEODORE J BLECHAR EXECUTOR

VIOLA I STEWART TRUST

VIOLET GRAVES STUBBEMAN

WELLS FARGO BANK TRUSTEE SUSAN MURRAY FASKEN TRUST #1

WELLS FARGO OGM OPERATIONS-AU 10291

WESLEY T HOUSE

WILLIAM M SIEGENTHALER JR