

Suppose 3/25/04

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

DHC-2104-A
PWJ0409761367

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.

Nancy Oltmanns Nancy Oltmanns Senior Staff Specialist 3-4-04
 Print or Type Name Signature Title Date

noltmanns@br-inc.com
 e-mail Address

District II
811 South First Street, Artesia, NM 88210

OIL CONSERVATION DIVISION

APPLICATION TYPE

District III
1000 Rio Brazos Road, Aztec, NM 87410

2040 South Pacheco
Santa Fe, New Mexico 87505

Single Well

District IV
2040 South Pacheco, Santa Fe, NM 87505

APPLICATION FOR DOWNHOLE COMMINGLING

Establish Pre-Approved Pools

EXISTING WELLBORE

Yes No

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

Operator Address
SAN JUAN 27-5 UNIT 138E O-19-27N-05W RIO ARRIBA

Lease Well No. Unit Letter-Section-Township-Range County
OGRID No. 14538 Property Code 7454 API No. 30-039-23758 Lease Type: Federal State Fee

DHC-2104

DATA ELEMENT	<input checked="" type="checkbox"/> UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	BLANCO MESAVERDE <i>No Gas</i>	CEREZA CANYON GALLUP <i>Gas</i>	BASIN DAKOTA <i>No Gas</i>
Pool Code	72319	96766	71599
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	WILL BE SUPPLIED UPON COMPLETION	6750' - 7151'	7560' - 7748'
Method of Production (Flowing or Artificial Lift)	FLOWING	FLOWING	FLOWING
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 - 996 psi From San Juan 27-5 Unit 138 offset	Original - 1623 psi Current - 383 psi	Original - 2367 psi Current - 957 psi
Oil Gravity or Gas BTU (Degree API or Gas BTU)	BTU 1111 From San Juan 27-5 Unit 138 offset	BTU 1108	BTU 1108
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: Rates:	Date: 12/31/03 Rates: 35 Mcfd	Date: 12/31/03 Rates: 94 Mcfd
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	Oil 39% Gas 34%	Oil 13% Gas 5%	Oil 48% Gas 61%

ADDITIONAL DATA

Are all working, royalty and overriding royalty interests identical in all commingled zones? Yes No
 If not, have all working, royalty and overriding royalty interest owners been notified by certified mail? Yes No

Are all produced fluids from all commingled zones compatible with each other? Yes No

Will commingling decrease the value of production? Yes No

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 No

NMOCD Reference Case No. applicable to this well: R-10694

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 *Leonard Biemer* TITLE Reservoir Engineer DATE 03/04/04
 TYPE OR PRINT NAME Leonard Biemer TELEPHONE NO. (505) 326-9700

8751A, NM 88211-0719

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

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

87504, NM 87410

87504, NM 87504-2088

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039-23758		*Pool Code 72319/96766/71599		*Pool Name Blanco Mesaverde/Cereza Canyon Gallup/Basin Dakota	
*Property Code 7454	*Property Name SAN JUAN 27-5 UNIT			*Well Number 138E	
*GRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY			*Elevation 6603'	

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
0	19	27N	5W		800	South	1650	East	RIO ARRIBA

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 Gal - 160 DK & MV-E/320	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

<p>15</p> <p style="font-size: 2em;">19</p> <p style="text-align: center;">*Not re-surveyed: Prepared from plat By: Fred B. Kerr Jr. Dated: May 1, 1985</p>	<p>1650'</p>		<p>17 OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</p> <p style="text-align: right;"><i>Nancy Oltmanns</i></p> <p>Signature</p> <p>Nancy Oltmanns</p> <p>Printed Name</p> <p>Senior Staff Specialist</p> <p>Title</p> <p>10-31-03</p> <p>Date</p>	
	<p>800'</p>			<p>18 SURVEYOR CERTIFICATION</p> <p>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.</p> <p style="text-align: right;">NOVEMBER 20, 1997</p> <p>Date of Survey</p> <p style="text-align: right;">NEALE C. EDWARDS</p> <p>Signature and Seal</p> <p style="text-align: center;">NEW MEXICO 6857</p> <p style="text-align: right;">6857</p> <p>Certificate Number</p>

BURLINGTON RESOURCES

Distribution:
Regulatory
Accounting
Well File
Revised July 29, 2003

PRODUCTION ALLOCATION FORM

Status
PRELIMINARY X
FINAL

Type of Completion
NEW DRILL RECOMPLETION X PAYADD COMMINGLE

Date: March 3, 2004
API No.
3003923758

Well Name
SAN JUAN 27-5 UNIT

Well No.
138E

Unit Letter O	Section 19	Township 027N	Range 005W	Footage 800' FSL & 1650' FEL	County, State Rio Arriba County, New Mexico
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1 st Delivery Date	Test Method HISTORICAL X FIELD TEST <input type="checkbox"/> PROJECTED X OTHER <input type="checkbox"/>
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FORMATION	GAS	PERCENT	OIL	PERCENT
Mesaverde	316 MMcf	34%	1.3 Mstb	39%
Gallup	43 MMcf	5%	0.4 Mstb	13%
Dakota	571 MMcf	61%	1.6 Mstb	48%

JUSTIFICATION OF PRELIMINARY ALLOCATION

The referenced well is currently a Gallup / Dakota commingle. A Mesaverde recompletion is planned for this well. The gas percentages provided are based upon remaining reserves assigned to the Gallup and Dakota formations, and estimated gas production for the Mesaverde. Oil percentages are based upon cumulative oil production for the Gallup and Dakota formations, and an estimated oil production for the Mesaverde.

APPROVED BY	TITLE	DATE
Leonard Biemer	Engineer	3/4/04
Kristy Graham	Engineering Tech	3/4/04

San Juan 27-5 Unit 138E
Bottom Hole Pressures
Flowing and Static BHP
Cullender and Smith Method
Version 1.0 1/14/98

Mesaverde	Gallup																																																
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San Juan 27-5 Unit 138E
Bottom Hole Pressures
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Version 1.0 1/14/98

Dakota			
<u>DK-Current</u>		<u>Current</u>	
GAS GRAVITY	0.638	GAS GRAVITY	0
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.00184	%N2	0.00
%CO2	0.01307	%CO2	0
%H2S	0	%H2S	0
DIAMETER (IN)	1.5	DIAMETER (IN)	0
DEPTH (FT)	7654	DEPTH (FT)	0
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	0
BOTTOMHOLE TEMPERATURE (DEG F)	183	BOTTOMHOLE TEMPERATURE (DEG F)	0
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	802	SURFACE PRESSURE (PSIA)	0
BOTTOMHOLE PRESSURE (PSIA)	957.3	BOTTOMHOLE PRESSURE (PSIA)	#DIV/0!
<u>DK-Original</u>		<u>Original</u>	
GAS GRAVITY	0.715	GAS GRAVITY	0
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.0194	%N2	0.00
%CO2	0.0054	%CO2	0
%H2S	0	%H2S	0
DIAMETER (IN)	1.5	DIAMETER (IN)	0
DEPTH (FT)	7654	DEPTH (FT)	0
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	0
BOTTOMHOLE TEMPERATURE (DEG F)	183	BOTTOMHOLE TEMPERATURE (DEG F)	0
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1879	SURFACE PRESSURE (PSIA)	0
BOTTOMHOLE PRESSURE (PSIA)	2367.3	BOTTOMHOLE PRESSURE (PSIA)	#DIV/0!

San Juan 27-5 Unit 138E - SICP/Z Data

Zone: Gallup							
Date	SICP (psig)	Chromatograph Used	Z-Factor	SICP/Z (psig)	Cum Qg (MMCF)	Slope	Y Intercept
4/20/1998	1330	5/1/2003	0.9023	1474	0	N/A	1474
???	159	N/A	1	159	304.339	-4.320875	1474
1/31/2004	???	5/1/2003	???	344	261.639	-4.320875	1474

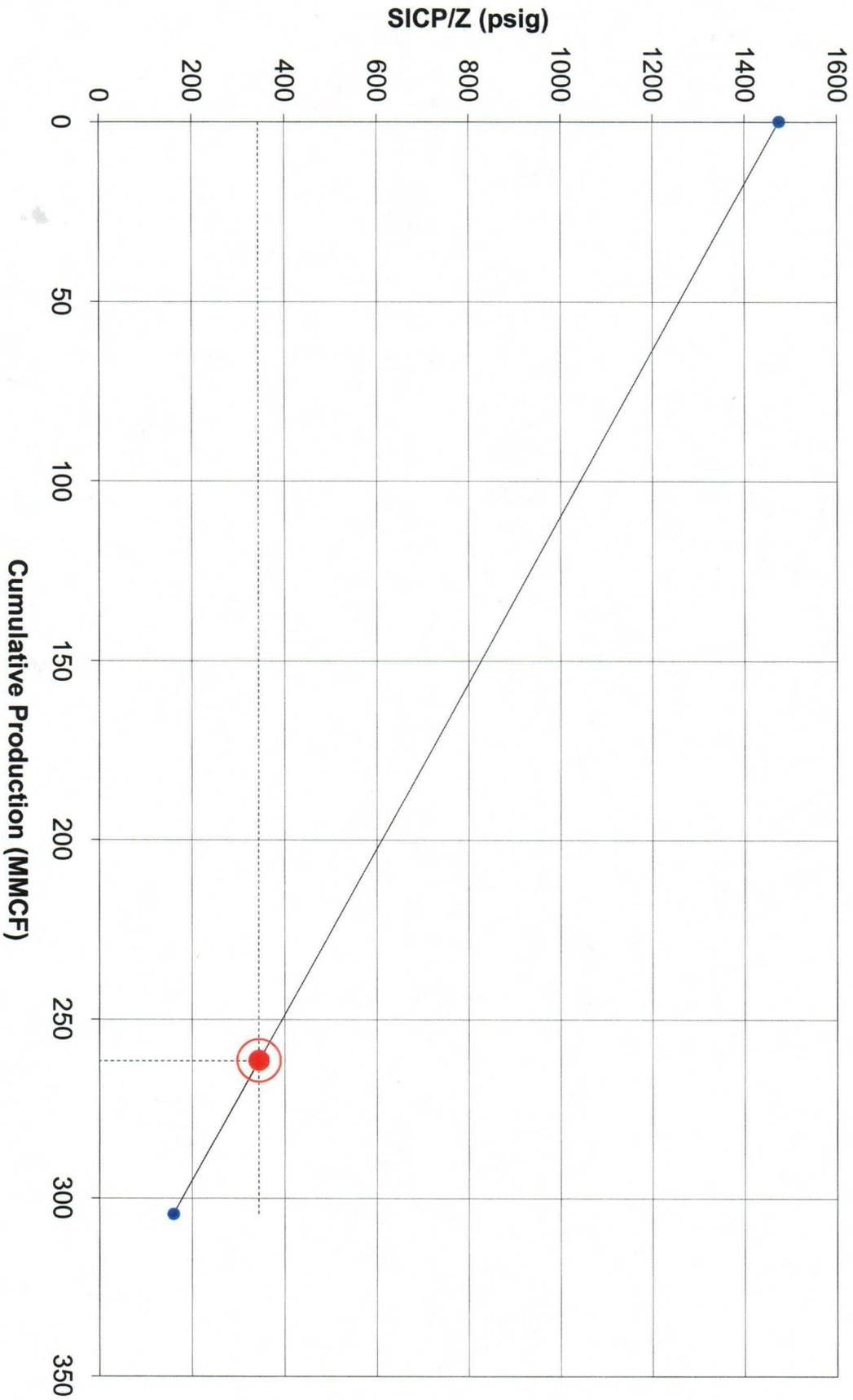
Z-Factor = 0.96
SICP (psig) = 330

Zone: Dakota							
Date	SICP (psig)	Chromatograph Used	Z-Factor	SICP/Z (psig)	Cum Qg (MMCF)	Slope	Y Intercept
8/23/1985	1879	5/1/2003	0.8828	2128	0	N/A	2128
5/5/1986	1284	5/1/2003	0.9046	1419	42.918	-16.52088	2128
6/28/1988	1001	5/1/2003	0.9209	1087	265.295	-3.925723	2128
7/31/1990	1096	5/1/2003	0.915	1198	416.587	-2.233965	2128
7/28/1992	699	5/1/2003	0.9417	742	553.843	-2.50284	2128
???	159	N/A	1	159	1683.92	-1.169566	2128
1/31/2004	???	5/1/2003	???	827	1112.97	-1.169566	2128

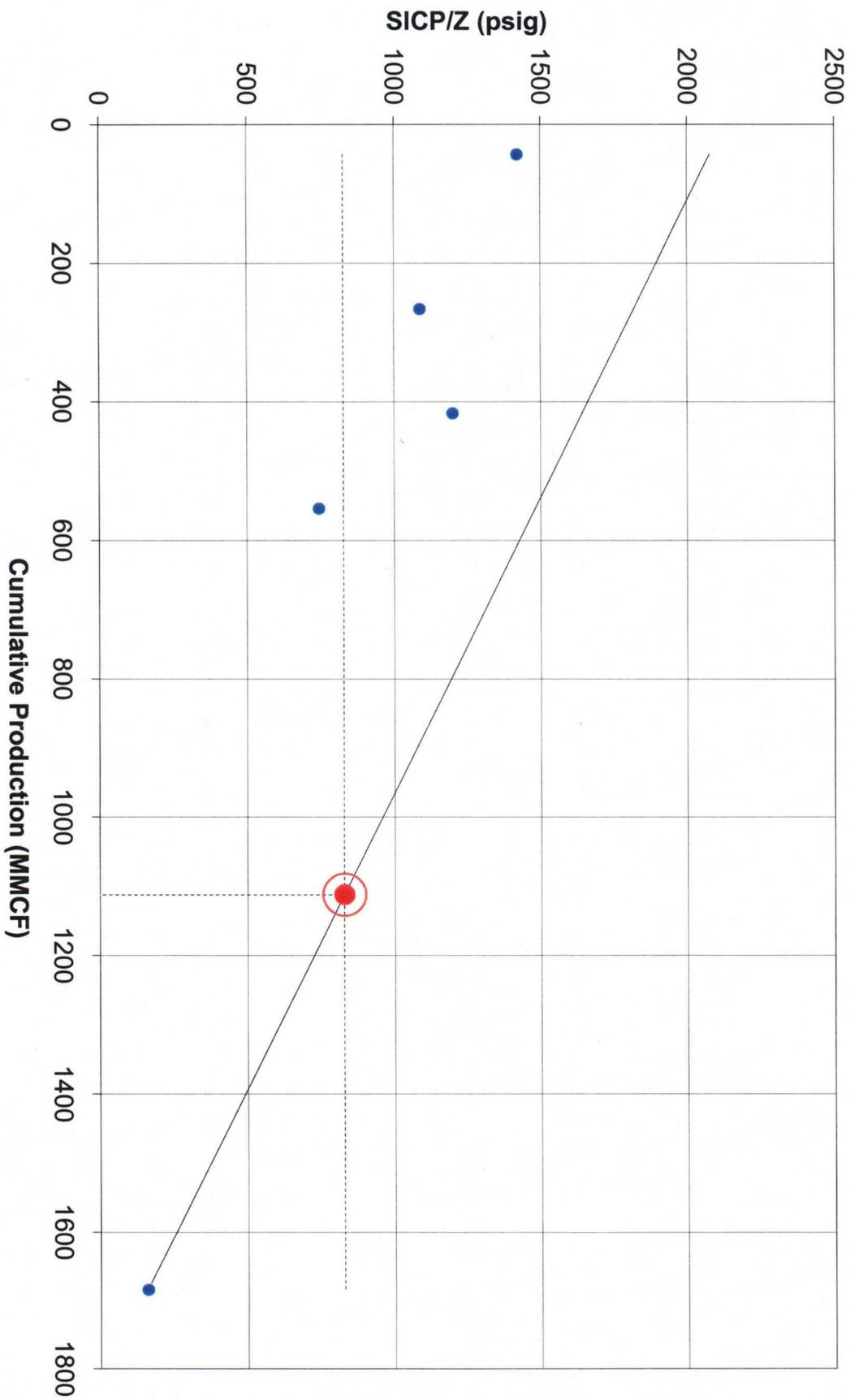
Z-Factor = 0.97
SICP (psig) = 802

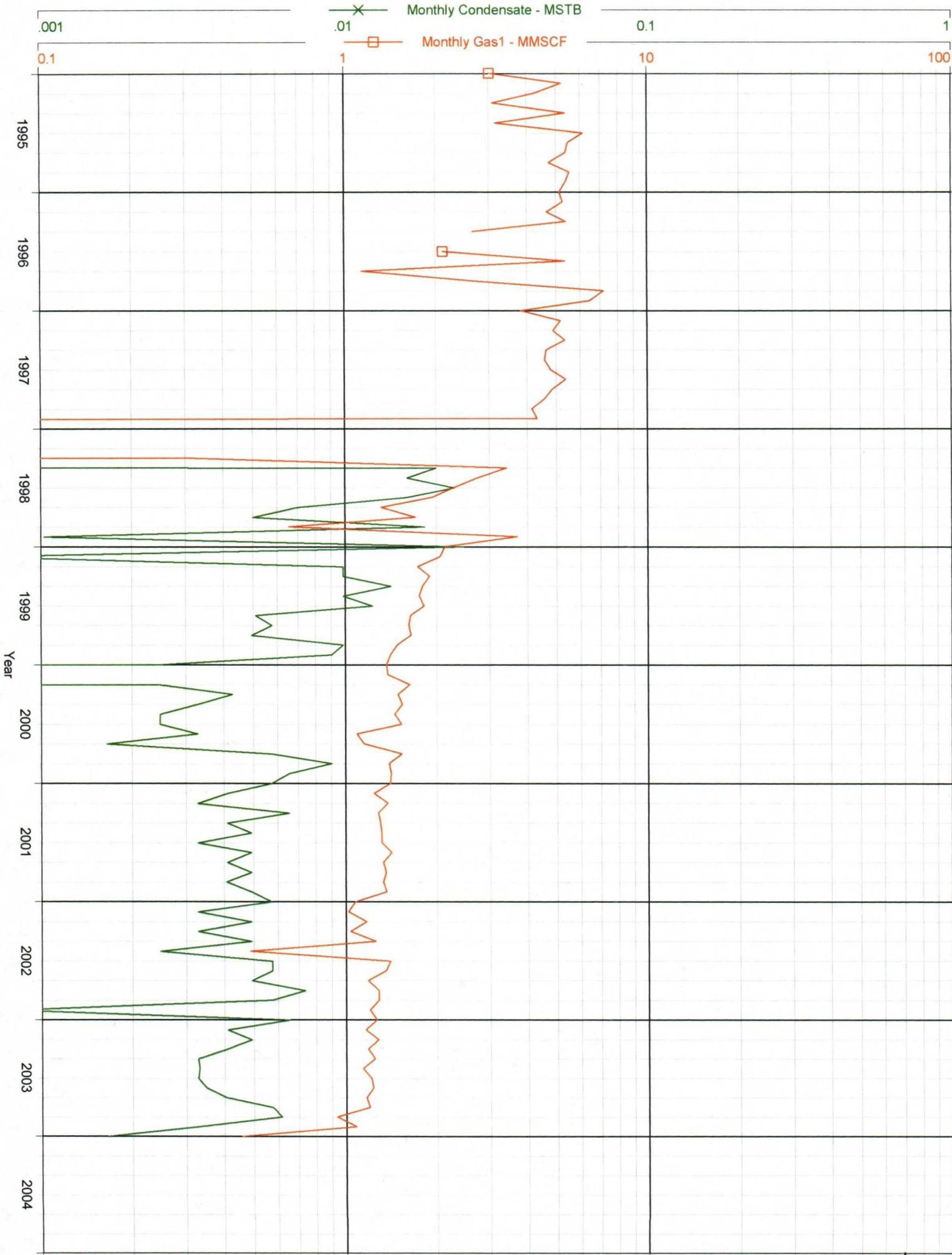
NOTE: THESE ARE ESTIMATES OF THE CURRENT RESERVOIR PRESSURE IN EACH ZONE. IT IS REALIZED THAT THE NEAR-WELLBORE PRESSURES FOR EACH ZONE SHOULD BE SIMILAR, DUE TO THEIR COMMINGLED STATUS.

San Juan 27-5 Unit 138E (GL)



San Juan 27-5 Unit 138E (DK)





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DK

