

8/28/02	9/17/02	SUSPENSE NA	ENGINEER WJ	LOGGED IN W	TYPE DHC	APP NO. 224239631
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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 _____

AUG 28 2002

[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. 8-27-02
 Title Date

pcole@br-inc.com
 e-mail Address

District I
1625 N. French Drive, Hobbs, NM 88240
District II
811 South First Street, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-107A
Revised May 15, 2000

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, New Mexico 87505
APPLICATION FOR DOWNHOLE COMMINGLING

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

BURLINGTON RESOURCES OIL & GAS COMPANY		PO BOX 4289, FARMINGTON, NM 87499	
Operator		Address	
MONTGOMERY	2E	F-17-30N-11W	SAN JUAN
Lease	Well No.	Unit Letter-Section-Township-Range	County
OGRID No. 14538	Property Code 7321	API No. 30-045-26601	Lease Type: Federal State X 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	WILL BE SUPPLIED UPON COMPLETION	6370'-6562'
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)	550 PSI – CURRENT 747 PSI – ORIGINAL (see attachment)	623 PSI – CURRENT 920 PSI – ORIGINAL (see attachment)	709 PSI – CURRENT 1281 PSI – ORIGINAL (see attachment)
Oil Gravity or Gas BTU (Degree API or Gas BTU)	1150	1247	1184
Producing, Shut-In or New Zone	NEW ZONE	NEW ZONE	SHUT IN
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: New Zone Rates: (see attached)	Date: New Zone Rates: (see attached)	Date: 12/31/01 Rates: 25 mcf/d
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	Oil % Gas % WILL BE SUPPLIED UPON COMPLETION	Oil % Gas % WILL BE SUPPLIED UPON COMPLETION	Oil % Gas % WILL BE SUPPLIED UPON COMPLETION

ADDITIONAL DATA

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

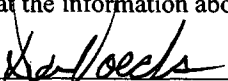
- Attachments:
- C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
 - Production curve for each zone for at least one year. (If not available, attach explanation.)
 - For zones with no production history, estimated production rates and supporting data.
 - Data to support allocation method or formula.
 - 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		TITLE	Production Engineer	DATE	8/26/02
tlw					
TYPE OR PRINT NAME	Dan T. Voecks	TELEPHONE NO. (505)	326-9700		

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 30-45-2660100	Pool Code 82329/72319/71599	Pool Name Otero Chacra/Blanco MV/Basin DK
Property Code 7321	Property Name Montgomery	Well Number 2E
OGRID No. 14538	Operator Name Burlington Resources Oil & Gas Company, LP	Elevation 5566

¹⁰ Surface Location

UL or lot no. F	Section 17	Township 30N	Range 11W	Lot Idn	Feet from the 1470	North/South line North	Feet from the 1450	East/West line West	County San Juan
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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
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DK- MV-	¹² Dedicated Acres N/320	¹³ Joint or Infill Ch - NW/160	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>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></p> <p>Signature Peggy Cole Printed Name Regulatory Supervisor Title 10-18-01 Date</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>Date of Survey Signature and Seal of Professional Surveyer: Certificate Number</p>

Montgomery #2E
 Bottom Hole Pressures
 Flowing and Static BHP
 Cullender and Smith Method
 Version 1.0 3/13/94

Chacra		Mesaverde	
<u>CH-Current</u>		<u>MV-Current</u>	
GAS GRAVITY	<u>0.613</u>	GAS GRAVITY	<u>0.604</u>
COND. OR MISC. (C/M)	<u>C</u>	COND. OR MISC. (C/M)	<u>C</u>
%N2	<u>0.15</u>	%N2	<u>0.19</u>
%CO2	<u>1.02</u>	%CO2	<u>0.99</u>
%H2S	<u>0</u>	%H2S	<u>0</u>
DIAMETER (IN)	<u>2</u>	DIAMETER (IN)	<u>2.375</u>
DEPTH (FT)	<u>4548</u>	DEPTH (FT)	<u>4651</u>
SURFACE TEMPERATURE (DEG F)	<u>60</u>	SURFACE TEMPERATURE (DEG F)	<u>60</u>
BOTTOMHOLE TEMPERATURE (DEG F)	<u>137</u>	BOTTOMHOLE TEMPERATURE (DEG F)	<u>137</u>
FLOWRATE (MCFPD)	<u>0</u>	FLOWRATE (MCFPD)	<u>0</u>
SURFACE PRESSURE (PSIA)	<u>497</u>	SURFACE PRESSURE (PSIA)	<u>562</u>
BOTTOMHOLE PRESSURE (PSIA)	<u>549.6</u>	BOTTOMHOLE PRESSURE (PSIA)	<u>622.5</u>
<u>CH-Original</u>		<u>MV-Original</u>	
GAS GRAVITY	<u>0.613</u>	GAS GRAVITY	<u>0.604</u>
COND. OR MISC. (C/M)	<u>C</u>	COND. OR MISC. (C/M)	<u>C</u>
%N2	<u>0.15</u>	%N2	<u>0.19</u>
%CO2	<u>1.02</u>	%CO2	<u>0.99</u>
%H2S	<u>0</u>	%H2S	<u>0</u>
DIAMETER (IN)	<u>2</u>	DIAMETER (IN)	<u>2.375</u>
DEPTH (FT)	<u>4548</u>	DEPTH (FT)	<u>4651</u>
SURFACE TEMPERATURE (DEG F)	<u>60</u>	SURFACE TEMPERATURE (DEG F)	<u>60</u>
BOTTOMHOLE TEMPERATURE (DEG F)	<u>137</u>	BOTTOMHOLE TEMPERATURE (DEG F)	<u>137</u>
FLOWRATE (MCFPD)	<u>0</u>	FLOWRATE (MCFPD)	<u>0</u>
SURFACE PRESSURE (PSIA)	<u>674</u>	SURFACE PRESSURE (PSIA)	<u>828</u>
BOTTOMHOLE PRESSURE (PSIA)	<u>747.2</u>	BOTTOMHOLE PRESSURE (PSIA)	<u>920.4</u>

Montgomery #2E
 Bottom Hole Pressures
 Flowing and Static BHP
 Cullender and Smith Method
 Version 1.0 3/13/94

Dakota	
<u>DK-Current</u>	
GAS GRAVITY	<u>0.692</u>
COND. OR MISC. (C/M)	<u>C</u>
%N2	<u>0.34</u>
%CO2	<u>1.41</u>
%H2S	<u>0</u>
DIAMETER (IN)	<u>1.5</u>
DEPTH (FT)	<u>6532</u>
SURFACE TEMPERATURE (DEG F)	<u>60</u>
BOTTOMHOLE TEMPERATURE (DEG F)	<u>198</u>
FLOWRATE (MCFPD)	<u>0</u>
SURFACE PRESSURE (PSIA)	<u>605</u>
BOTTOMHOLE PRESSURE (PSIA)	<div style="border: 1px solid black; display: inline-block; padding: 2px 10px;">708.6</div>
<u>DK-Original</u>	
GAS GRAVITY	<u>0.692</u>
COND. OR MISC. (C/M)	<u>C</u>
%N2	<u>0.34</u>
%CO2	<u>1.41</u>
%H2S	<u>0</u>
DIAMETER (IN)	<u>1.5</u>
DEPTH (FT)	<u>6532</u>
SURFACE TEMPERATURE (DEG F)	<u>60</u>
BOTTOMHOLE TEMPERATURE (DEG F)	<u>198</u>
FLOWRATE (MCFPD)	<u>0</u>
SURFACE PRESSURE (PSIA)	<u>1082</u>
BOTTOMHOLE PRESSURE (PSIA)	<div style="border: 1px solid black; display: inline-block; padding: 2px 10px;">1280.9</div>

Montgomery #2E
Offset Chacra Well

<u>WellName</u>	<u>Date</u>	<u>Well Head Pressure</u>
Congress 7E	3/3/1982	719
Congress 7E	3/31/1983	629
Congress 7E	5/29/1984	410

Montgomery #2E
Offset Mesaverde Well

<u>WellName</u>	<u>Date</u>	<u>Well Head Pressure</u>
Morris A Com 18	3/5/1988	913
Morris A Com 18	4/7/1989	738
Morris A Com 18	4/24/1990	699
Morris A Com 18	7/2/1991	574
Morris A Com 18	7/29/1993	574

Montgomery #2E
Existing Dakota Well

<u>WellName</u>	<u>Date</u>	<u>Well Head Pressure</u>
Montgomery 2E	3/21/1986	1,082
Montgomery 2E	6/4/1987	454
Montgomery 2E	1/3/1989	585
Montgomery 2E	4/18/1990	605

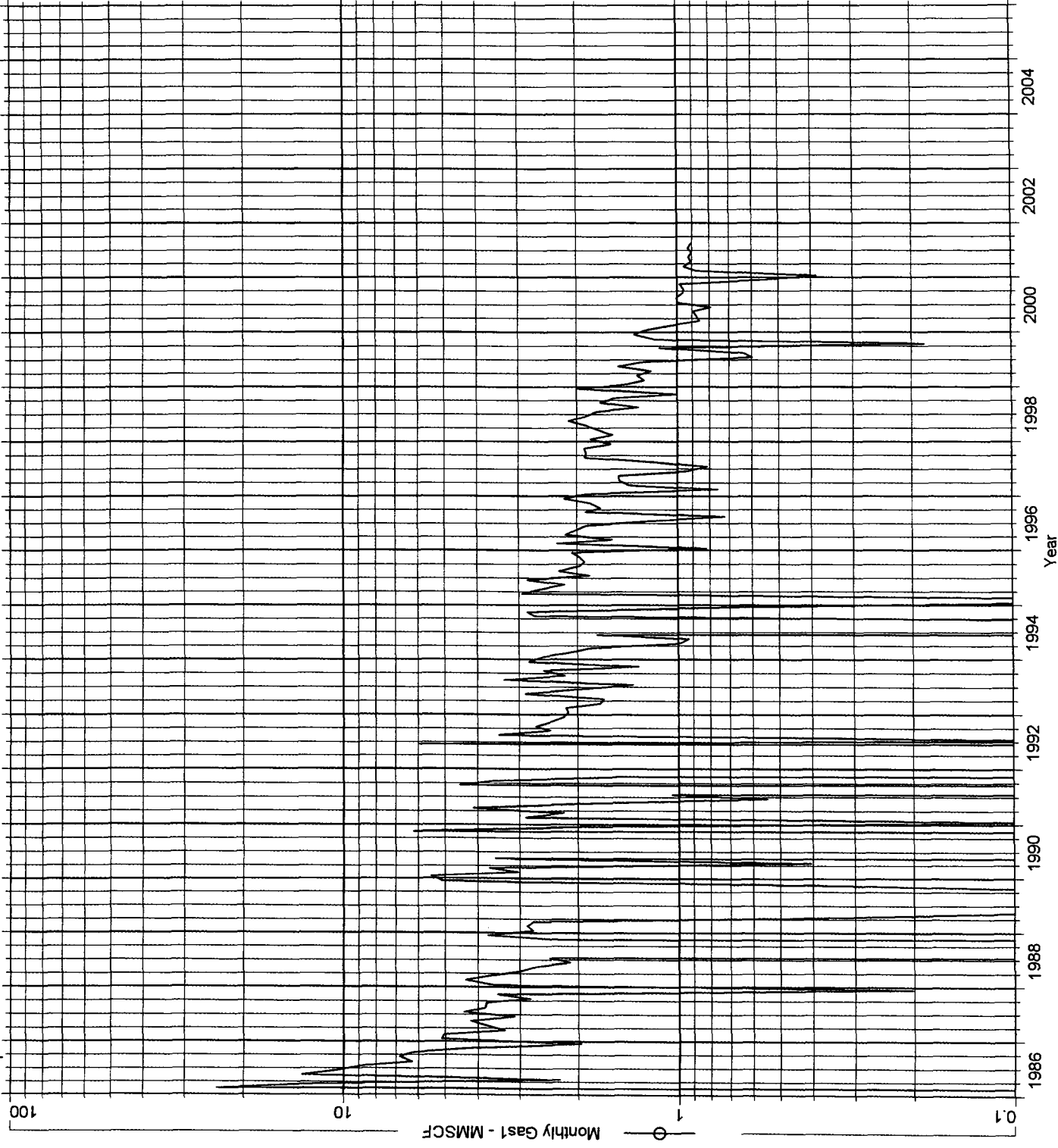
MONTGOMERY 2E 5445501 (254692514036.079) Data: Jan. 1986-Aug. 2001

Operator: BURLINGTON RESOURCES OG CO LP
Field: BASIN DAKOTA (PRORATED GAS)
Zone:

Type: Gas
Group: None

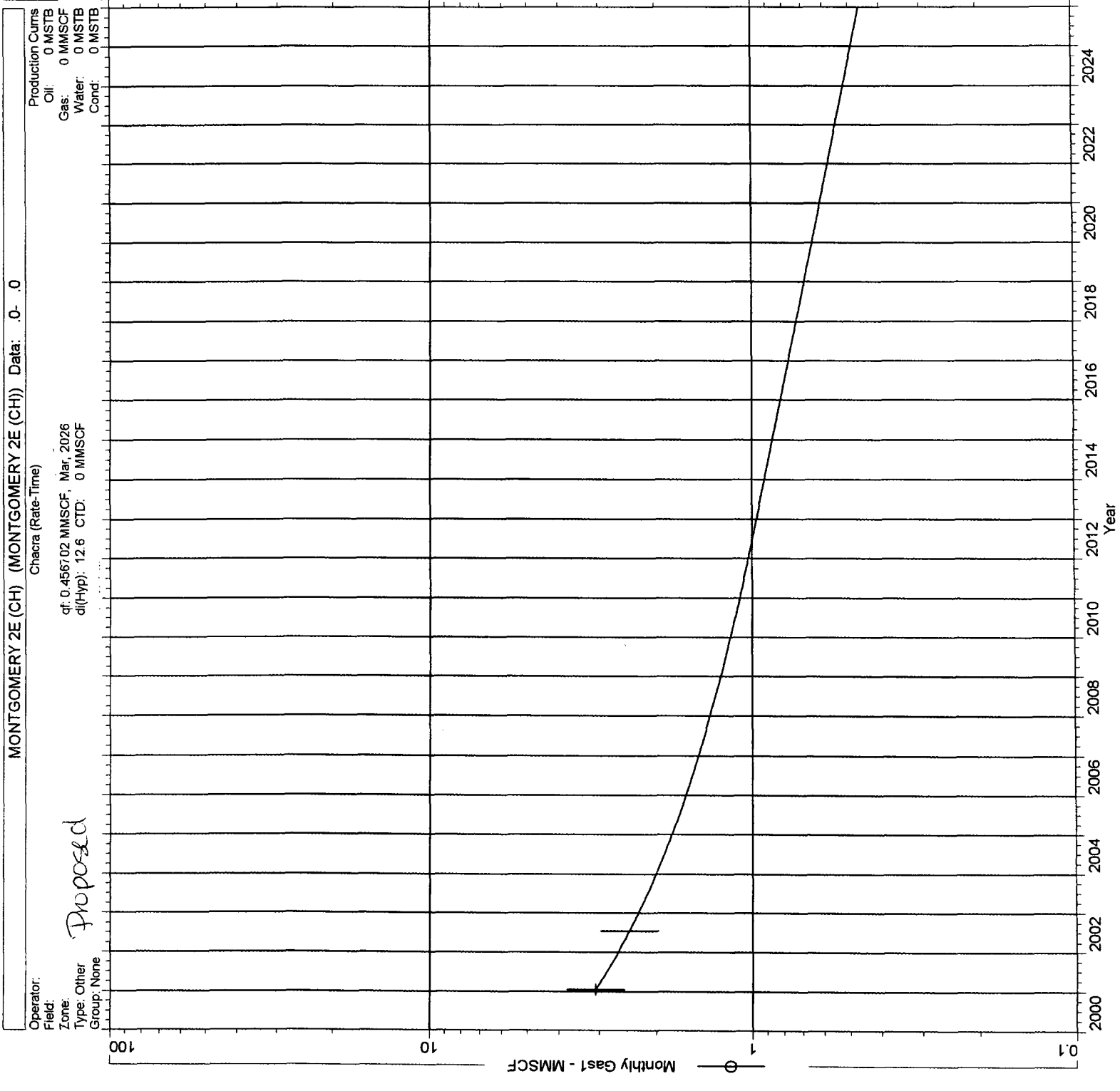
No
Active
Forecast

Production Cumis
Oil: 0 MSTB
Gas: 403.459 MMSCF
Water: 0 MSTB
Cond: 4.56609 MSTB

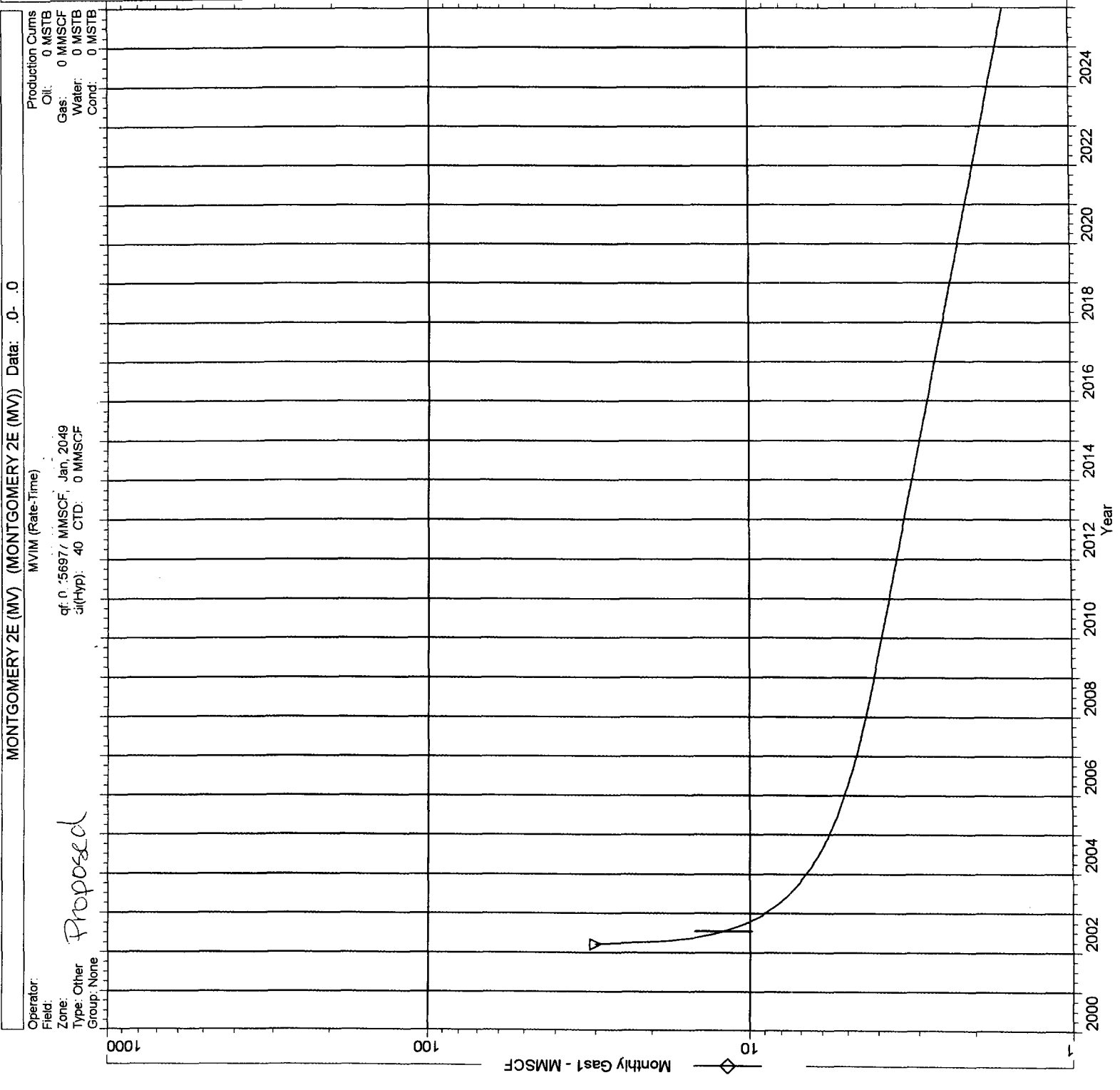


—○— Monthly Gas1 - MMSCF

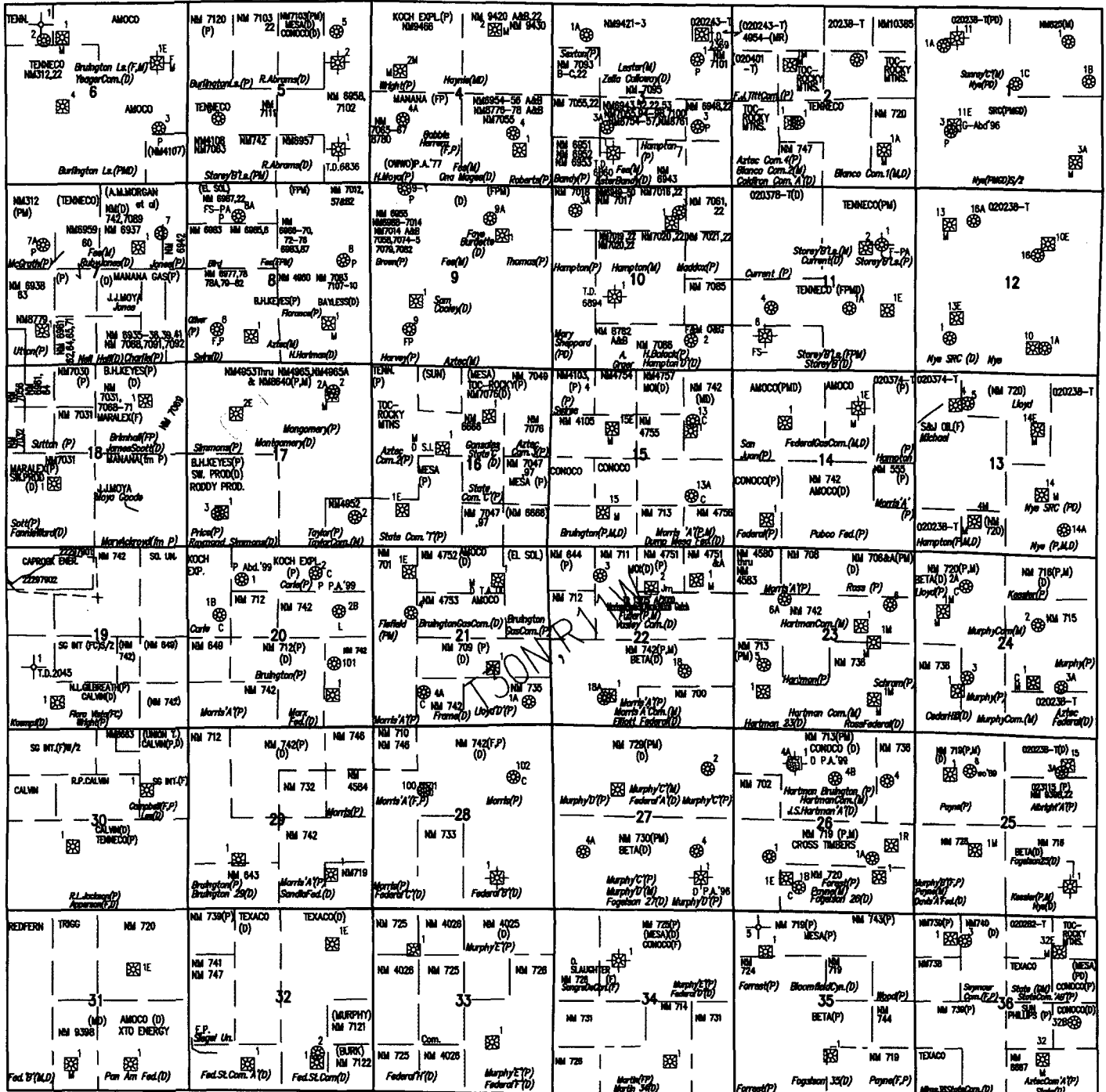
—○— Monthly Gas1 - MMSCF
 —+— Chacra - MMSCF
 versus time
 Qi: , Jul, 2002
 Qf: , Mar, 2026
 Di:(Hyp->Exp) : 12.6
 n: 1
 RR:
 EUR:
 Corr coeff: N/A



Monthly Gas1 - MMSCF
 —▽— MVIM - MMSCF
 versus time
 Qi: Jul, 2002
 Qf: Jan, 2049
 Di: (Hyp->Exp) : 40
 n: .
 RR: MMSCF
 EUR: MMSCF
 Corr coeff: N/A



Montgomery #2E
Chacra / Mesaverde / Dakota
30N-11W-17F



INTEREST OWNERS

Montgomery 2E - CH/MV/DK We

BEATRICE MINIUM

CLARICE MARINER

EDRICE E KELLEY

GEORGE R LAMB & LEONA LAMB

HAROLD D SIMMONS

~~J L LEBLEU AND ALICE LEBLEU~~ *Bad Address*

JERRY D & SUE H WINGET TRTEES

JOYCE MINIUM JONES

KEITH TOWNSEND LIVING TRUST

KENNETH TOWNSEND LIVING TRUST

LELAND AND BEATRICE MINIUM

LEWIS C & BOBBIE D TOWNSEND

R C MONTGOMERY

SEVENTH DAY ADVENTIST

STEPHEN H KINNEY

THEDA GAY CYNNOVA

ZONA L SCHAFER

Property Management & Consulting Inc.

Nancy Roddy

RM Energy LLC

Denver Riv Grande (Union Pacific Railroad Co)

Emma Jean Claunck

Jacob Hottell

Willard Grant Hottell

Margaret Mabel Wages

Glennie Ward

Kindom Uranium Corp

Grace C. Price

Willard & Vera Sumner

Roddy Production Company Inc

Thursday, August 22, 2002

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