

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

APPLICATION FOR DOWNHOLE COMMINGLING

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

No order yet 8-28-2 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?

Are all produced fluids from all commingled zones compatible with each other?

Will commingling decrease the value of production?

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?

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.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	17	30N	11W		1470	North	1450	West	San Juan

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

DK- 12 Dedicated Acres N/320 Cha 13 Joint or Infill NW/160
MV- W/320 14 Consolidation Code 15 Order No.

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

1450'	1470'
OCT 2001 RECEIVED OIL CONSERVATION DIVISION	
Original Plat from Fred B Kerr Jr 11-11-85	

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
10-18-01
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.

Date of Survey
Signature and Seal of Professional Surveyor:

Certificate Number

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)	708.6
<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)	1280.9

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

MUNI GOMERY 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 Cums

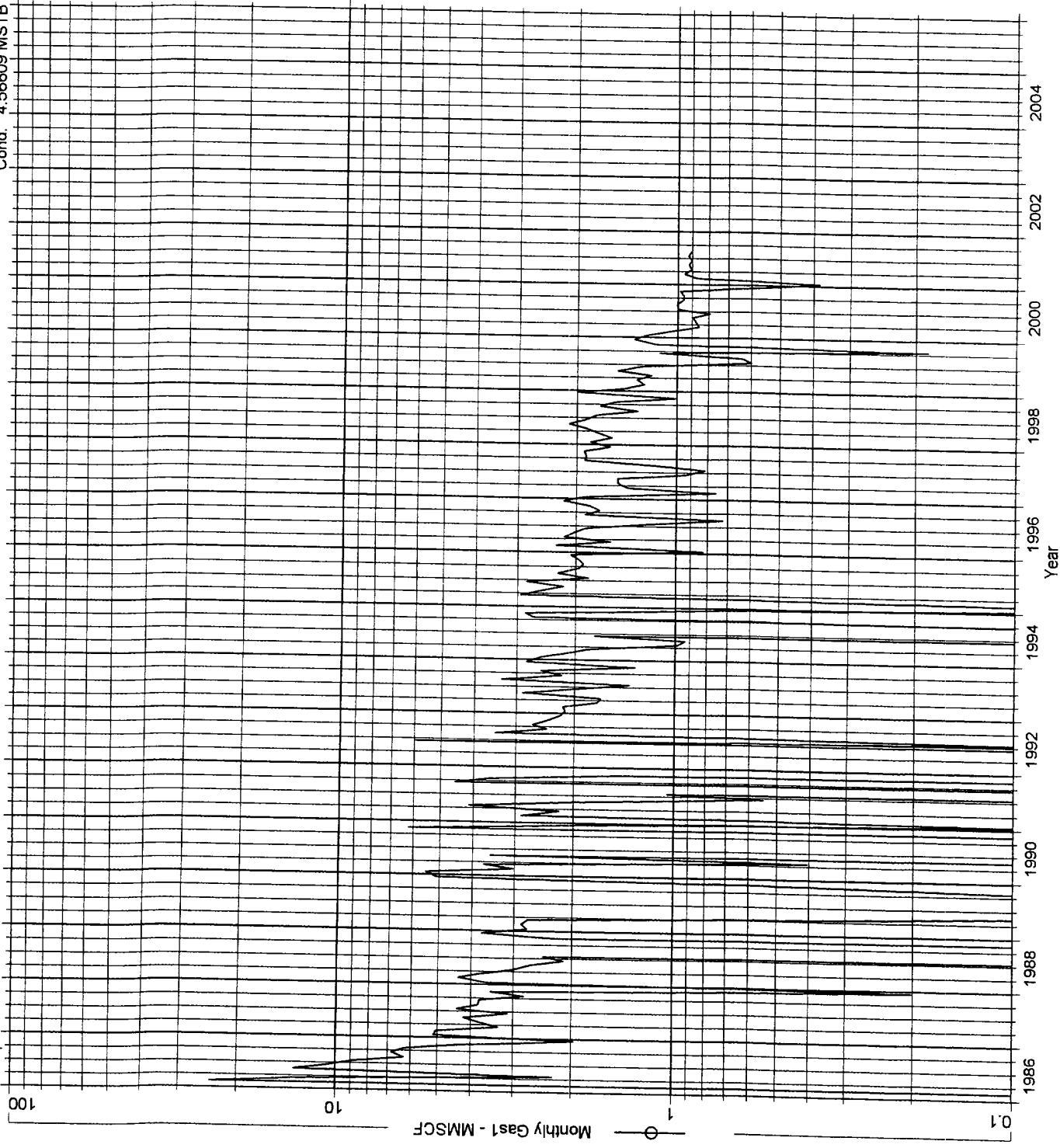
Oil: 0 MSTB

Gas: 403.459 MMSCF

Water: 0 MSTB

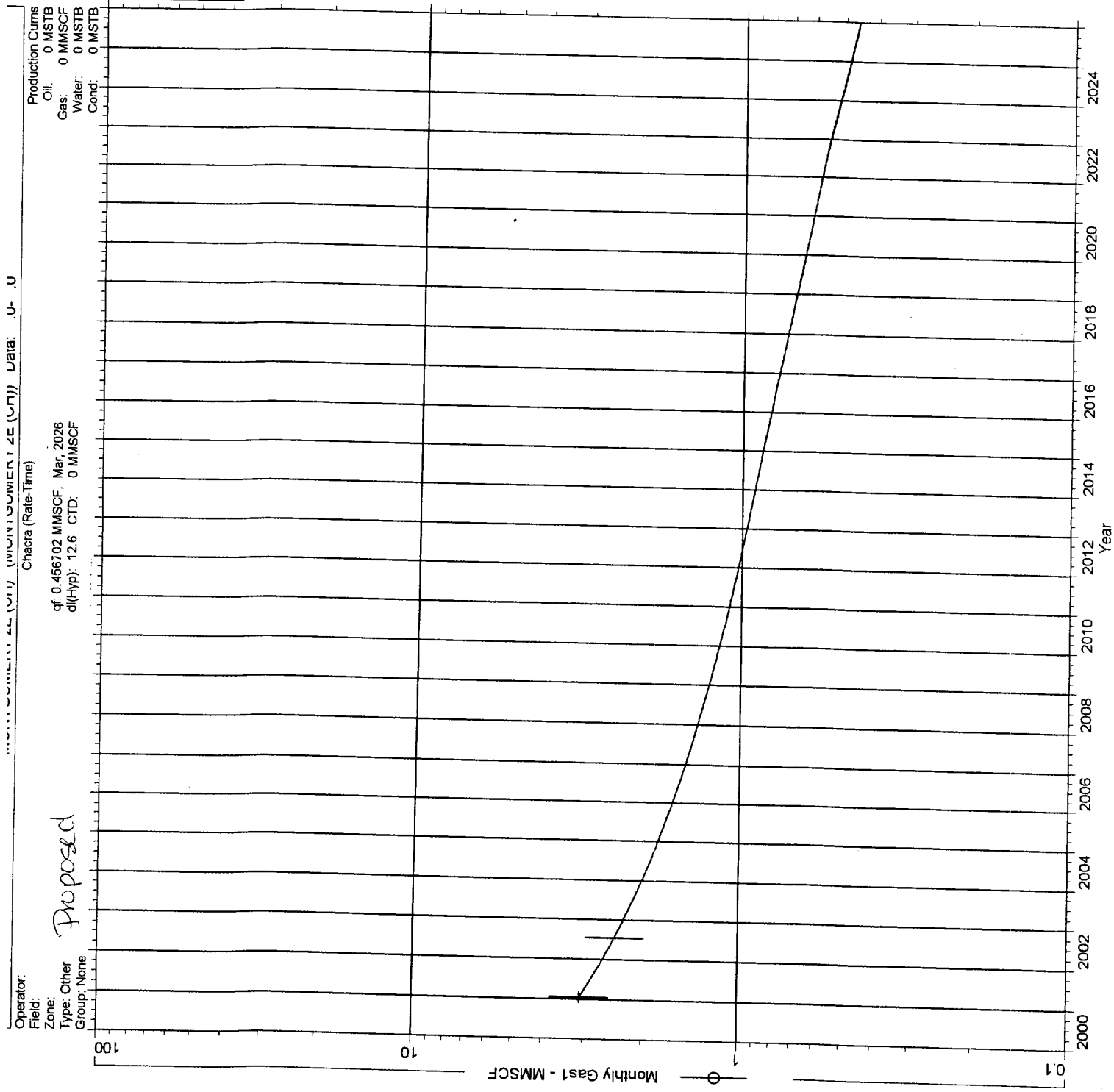
Cond: 4.56609 MSTB

EXISTING PRODUCTION

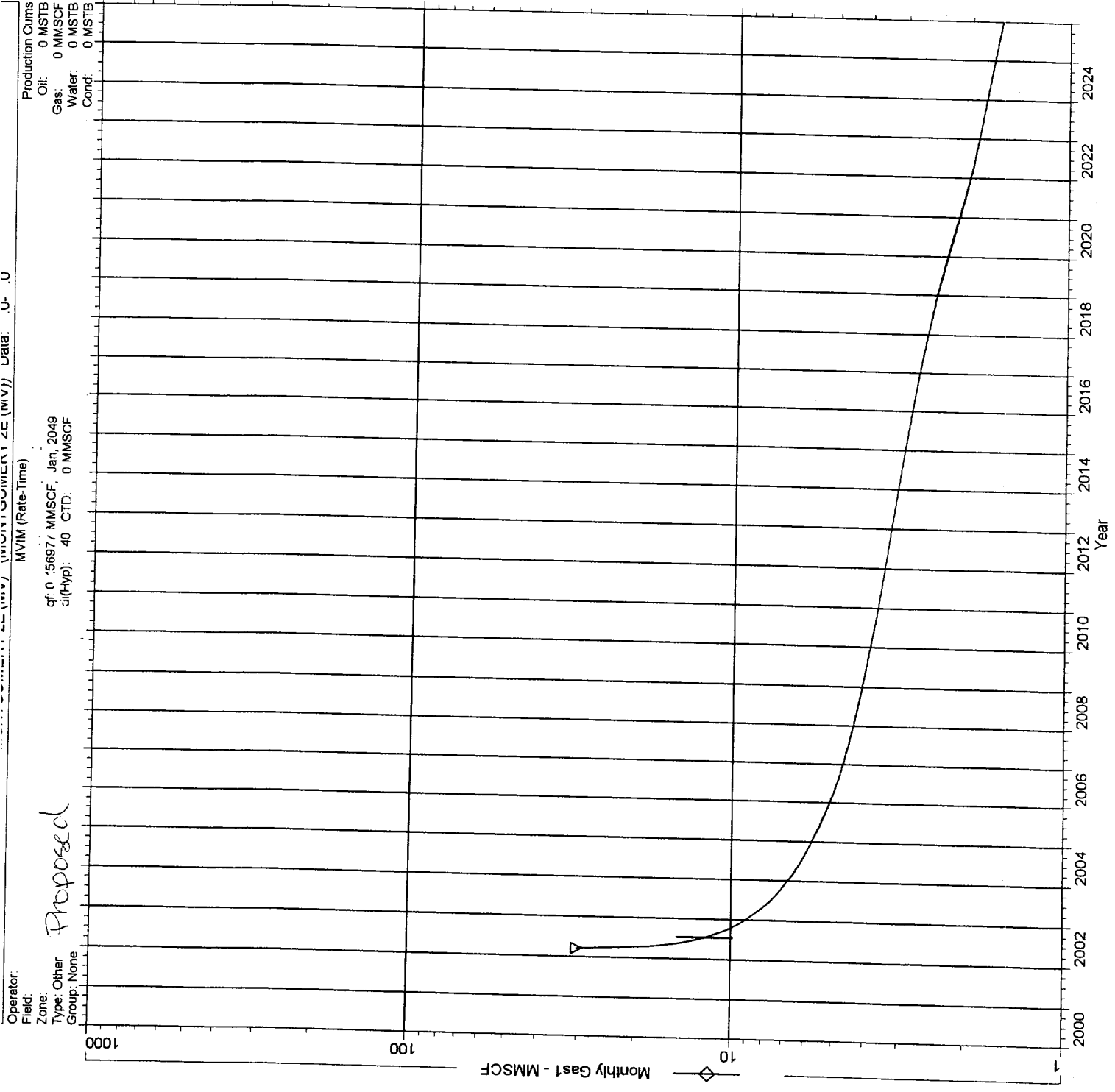


Monthly Gas1 - MMSCF

Monthly Gas1 - MMSCF
 Chacra - MMSCF
 versus time
 Q1: , 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



The map displays the state of Oklahoma, divided into its 77 counties. Major cities and towns are marked with dots and labeled, including Oklahoma City, Tulsa, Muskogee, Bartlesville, and many others. The map is overlaid with a grid of numbers and letters, likely representing specific locations or fields. A large, bold 'OKLAHOMA' is written across the center of the map. The map is a detailed representation of the state's geography and infrastructure, specifically focusing on oil and gas fields.