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

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, New Mexico 87505

APPLICATION FOR DOWNHOLE COMMINGLING

Form C-107A
Revised May 15, 2000

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

GRENIER B | 4E | C-04-29N-10W | SAN JUAN
Lease | Well No. | Unit Letter-Section-Township-Range | County

OGRID No. 14538 Property Code 18532 API No. 30-045-29406 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	WILL BE SUPPLIED UPON COMPLETION	6959'-6822'
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)	385 PSI – CURRENT 724 PSI – ORIGINAL (see attachment)	413 PSI – CURRENT 1281 PSI – ORIGINAL (see attachment)	716 PSI – CURRENT 2548 PSI – ORIGINAL (see attachment)
Oil Gravity or Gas BTU (Degree API or Gas BTU)	1076	1223	1216
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: 6/30/01 Rates: 81 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 % 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? 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.
- 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 Sean E. Corrigan TITLE Production Engineer DATE 10/25/01
tlw
TYPE OR PRINT NAME Sean E. Corrigan 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-10
Revised February 21, 19
Instructions on ba
Submit to Appropriate District Offi
State Lease - 4 Copi
Fee Lease - 3 Copi

☐ AMENDED REPOR

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code	³ Pool Name
30-045-29406	71599/72319/82329	Basin Dakota/Blanco Mesaverde/Otero Chacra

⁴ Property Code	⁵ Property Name	⁶ Well Number
18532	Grenier B	4E

⁷ OGRID No.	⁸ Operator Name	⁹ Elevation
14538	Burlington Resources Oil & Gas Company	5951'

¹⁰ Surface Location

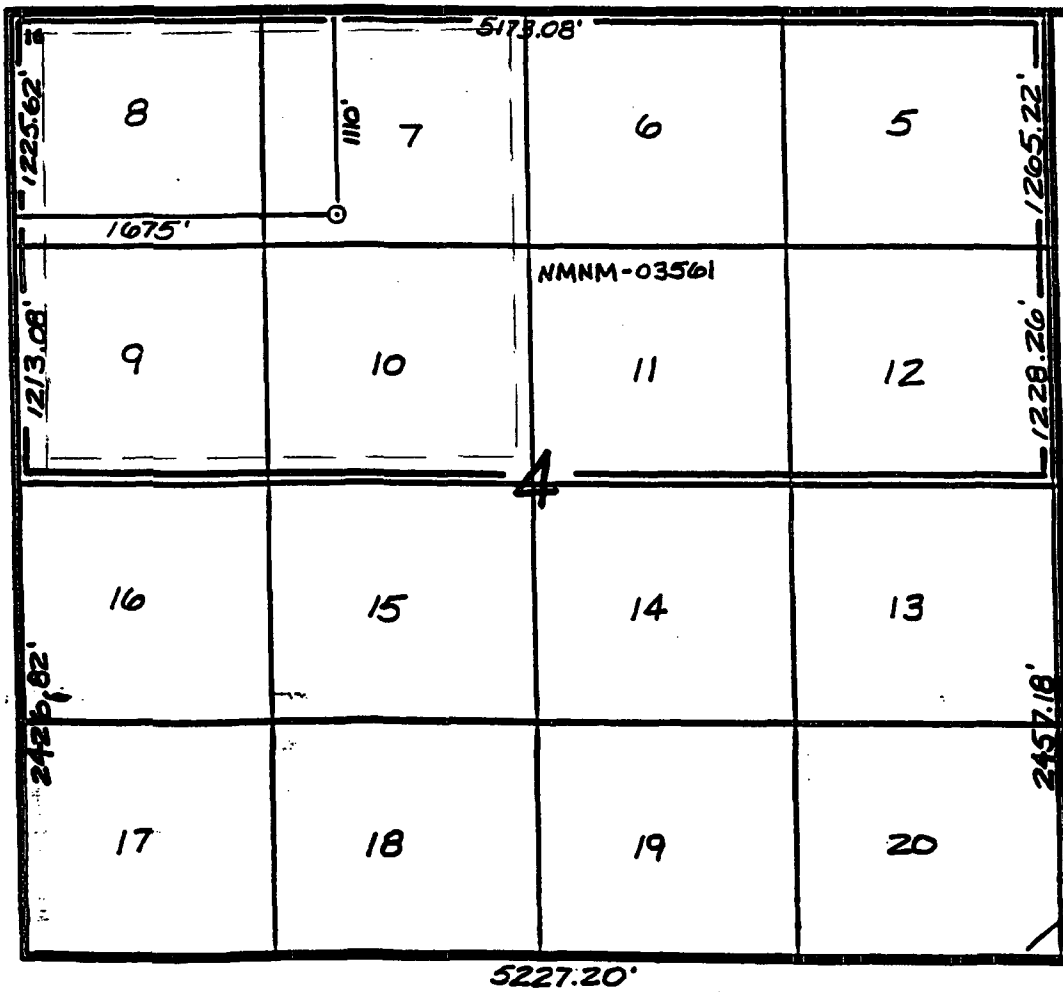
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	4	29 N	10 W		1110	North	1675	West	S.J.

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	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
Cha.NW/145.83 MV/DK:N/293.29			

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



¹⁷ OPERATOR CERTIFICATIO

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

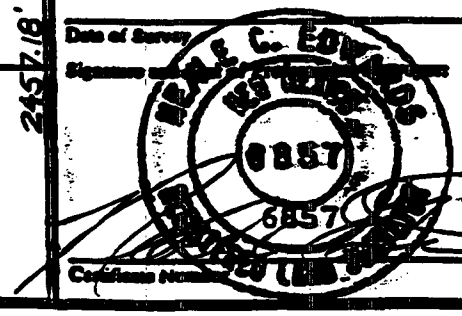
Signature: Peggy Cole
Printed Name: Regulatory Supervisor
Title:
Date:

¹⁸ SURVEYOR CERTIFICATIO

I hereby certify that the well location shown on this pl was plotted from field notes of actual surveys made by or under my supervision, and that the same is true an correct to the best of my belief.

7-9-96

Date of Survey:
Signature and Seal of Professional Surveyor:



Certificate Number

Grenier B #4E

Bottom Hole Pressures

Flowing and Static BHP

Cullender and Smith Method

Version 1.0 3/13/94

Mesaverde

MV-Current

GAS GRAVITY	0.706
COND. OR MISC. (C/M)	C
%N2	0.587
%CO2	0.683
%H2S	0
DIAMETER (IN)	2.375
DEPTH (FT)	4725
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	366
BOTTOMHOLE PRESSURE (PSIA)	412.6

MV-Original

GAS GRAVITY	0.706
COND. OR MISC. (C/M)	C
%N2	0.587
%CO2	0.683
%H2S	0
DIAMETER (IN)	2.375
DEPTH (FT)	4725
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1117
BOTTOMHOLE PRESSURE (PSIA)	1281.4

Dakota

DK-Current

GAS GRAVITY	0.719
COND. OR MISC. (C/M)	C
%N2	0.317
%CO2	1.971
%H2S	0
DIAMETER (IN)	2.375
DEPTH (FT)	6894
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	198
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	601
BOTTOMHOLE PRESSURE (PSIA)	715.5

DK-Original

GAS GRAVITY	0.719
COND. OR MISC. (C/M)	C
%N2	0.317
%CO2	1.971
%H2S	0
DIAMETER (IN)	2.375
DEPTH (FT)	6894
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	198
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	2082
BOTTOMHOLE PRESSURE (PSIA)	2547.5

Grenier B #4E

Bottom Hole Pressures

Flowing and Static BHP

Cullender and Smith Method

Version 1.0 3/13/94

Chacra

CH-Current

GAS GRAVITY	0.613
COND. OR MISC. (C/M)	C
%N2	0.15
%CO2	1.02
%H2S	0
DIAMETER (IN)	2.375
DEPTH (FT)	3266
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	359
BOTTOMHOLE PRESSURE (PSIA)	385.3

CH-Original

GAS GRAVITY	0.613
COND. OR MISC. (C/M)	C
%N2	0.15
%CO2	0.613
%H2S	0
DIAMETER (IN)	2.375
DEPTH (FT)	3266
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	672
BOTTOMHOLE PRESSURE (PSIA)	723.6

Grenier B #4E

Existing Dakota Well

WellName	Date	Well Head Pressure
GRENIER B 4E	9/11/1961	2,082
GRENIER B 4E	8/10/1970	820
GRENIER B 4E	8/13/1971	548
GRENIER B 4E	5/11/1972	519
GRENIER B 4E	10/19/1981	601

Grenier B #4E

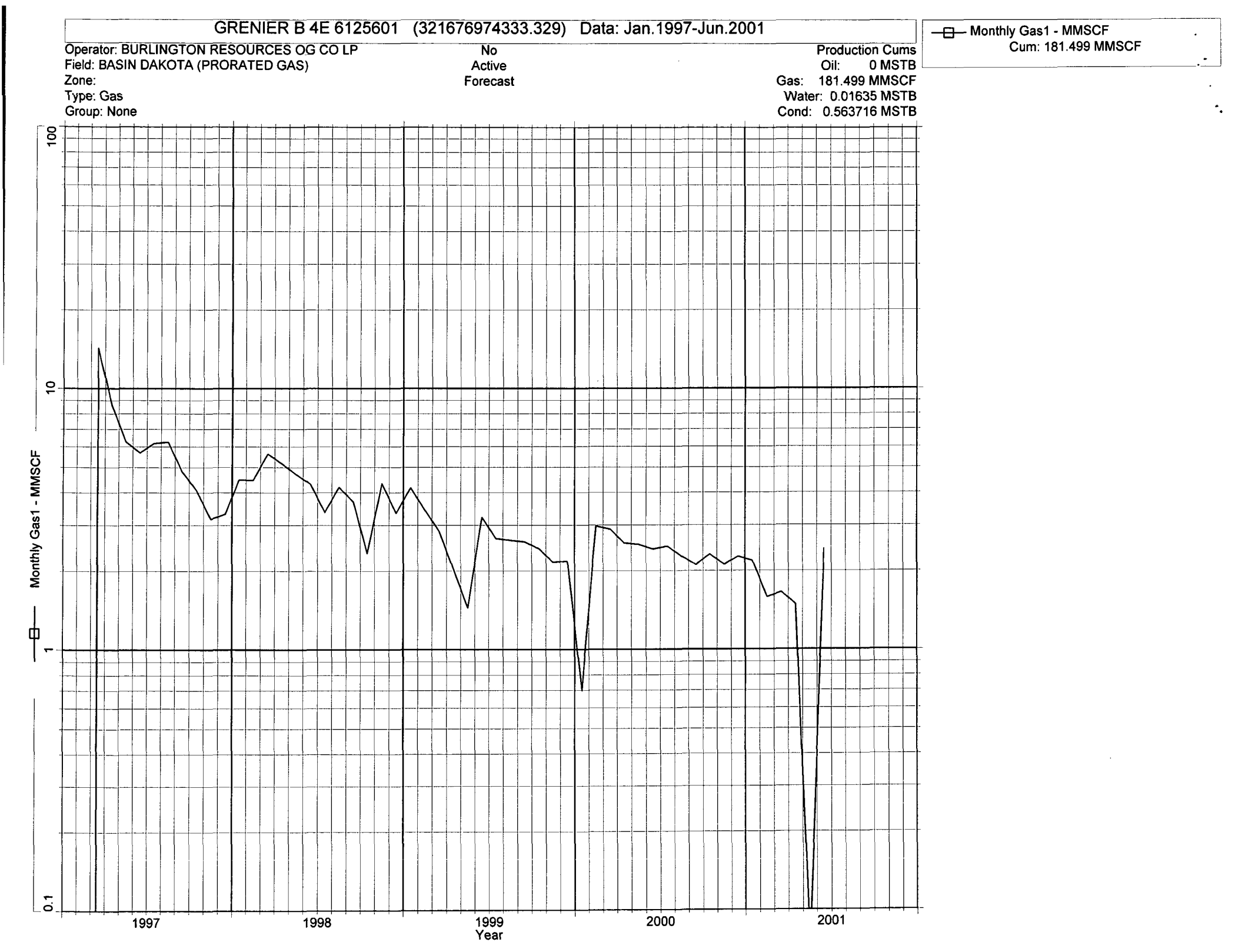
Offset Mesaverde Well

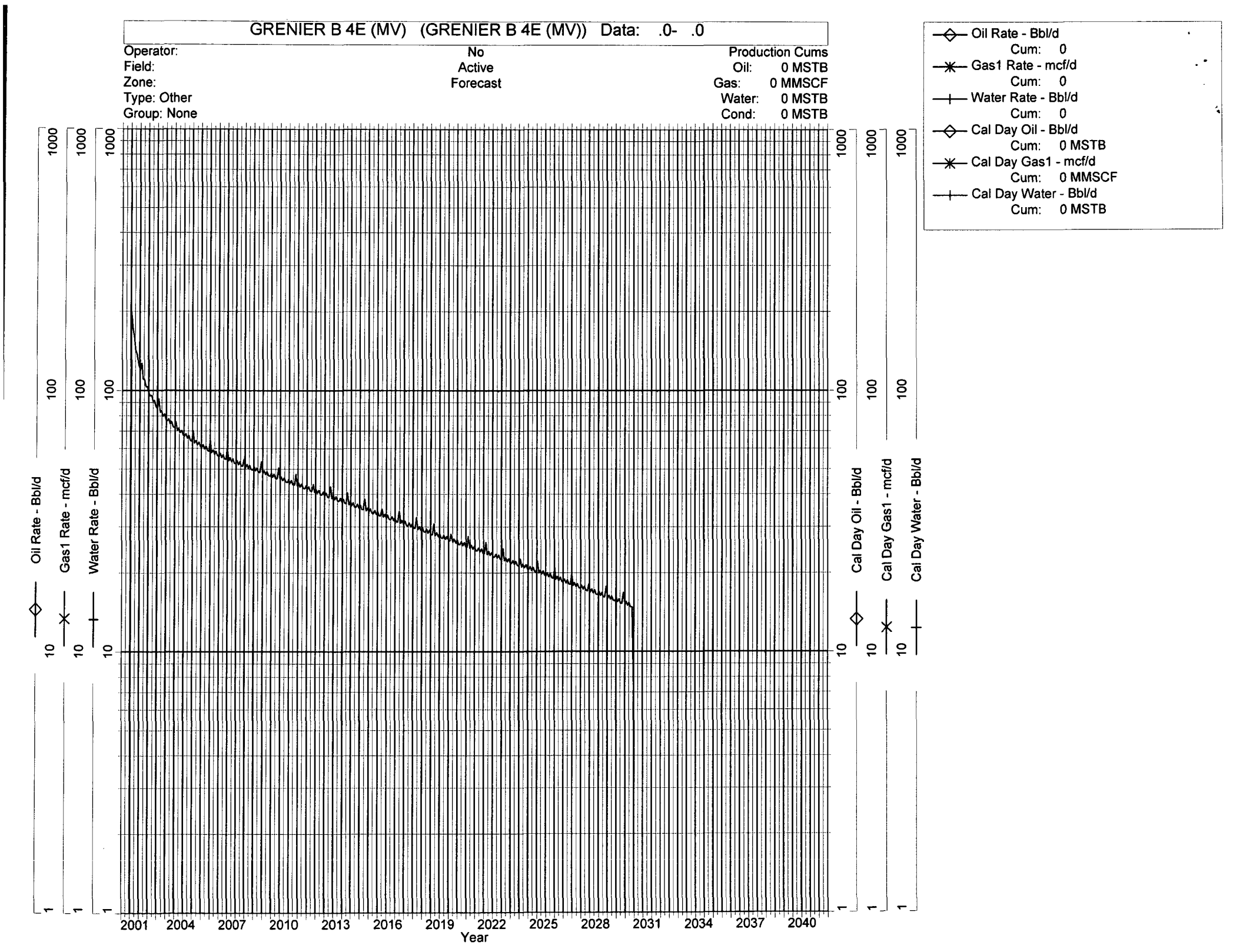
WellName	Date	Well Head Pressure
GRENIER B 4A	7/5/1981	1,117
GRENIER B 4A	3/24/1982	743
GRENIER B 4A	8/24/1983	515
GRENIER B 4A	4/4/1984	443
GRENIER B 4A	3/12/1986	352
GRENIER B 4A	8/30/1989	458
GRENIER B 4A	11/12/1991	378
GRENIER B 4A	5/31/1993	366

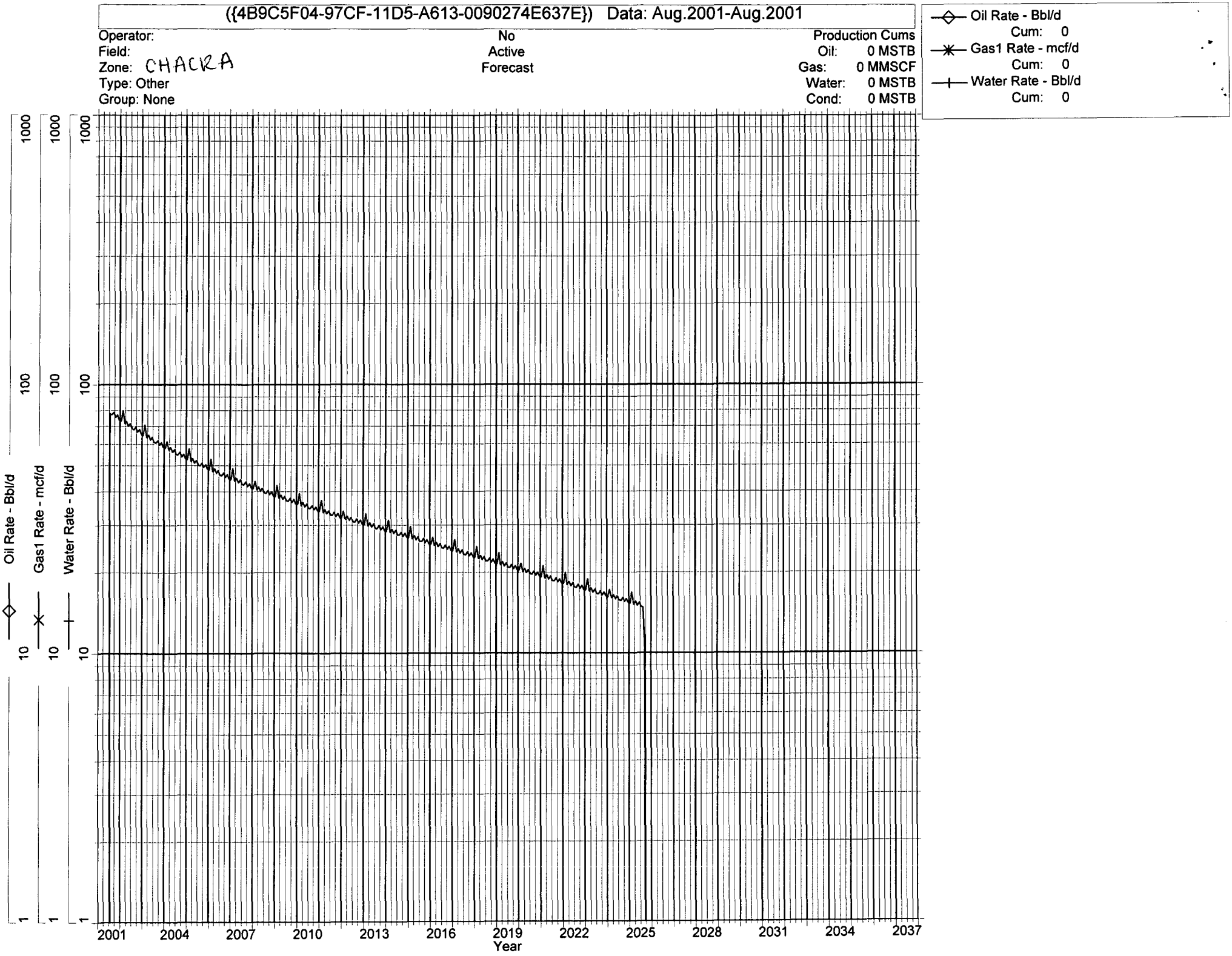
Grenier B #4E

Offset Chacra Well

WellName	Date	Well Head Pressure
Hubbell 4	12/9/1974	672
Hubbell 4	5/16/1975	415
Hubbell 4	4/12/1976	381
Hubbell 4	5/9/1977	359


GRENIER B 4E 6125601 (321676974333.329) Data: Jan.1997-Jun.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: 181.499 MMSCF
Water: 0.01635 MSTB
Cond: 0.563716 MSTB
Monthly Gas1 - MMSCF
Cum: 181.499 MMSCF
100
10
1
0.1
Monthly Gas1 - MMSCF
1997
1998
1999
2000
2001
Year


GRENIER B 4E (MV) (GRENIER B 4E (MV)) Data: .0- .0
Operator:
Field:
Zone:
Type: Other
Group: None
No
Active
Forecast
Production Cums
Oil: 0 MSTB
Gas: 0 MMSCF
Water: 0 MSTB
Cond: 0 MSTB
Oil Rate - Bbl/d
Cum: 0
Gas1 Rate - mcf/d
Cum: 0
Water Rate - Bbl/d
Cum: 0
Cal Day Oil - Bbl/d
Cum: 0 MSTB
Cal Day Gas1 - mcf/d
Cum: 0 MMSCF
Cal Day Water - Bbl/d
Cum: 0 MSTB
1000
100
10
1
2001
2004
2007
2010
2013
2016
2019
2022
2025
2028
2031
2034
2037
2040
Year


({4B9C5F04-97CF-11D5-A613-0090274E637E}) Data: Aug.2001-Aug.2001
Operator:
Field:
Zone: CHACRA
Type: Other
Group: None
No
Active
Forecast
Production Cums
Oil: 0 MSTB
Gas: 0 MMSCF
Water: 0 MSTB
Cond: 0 MSTB
Oil Rate - Bbl/d
Cum: 0
Gas1 Rate - mcf/d
Cum: 0
Water Rate - Bbl/d
Cum: 0
Oil Rate - Bbl/d
Gas1 Rate - mcf/d
Water Rate - Bbl/d
1000
100
10
1
2001
2004
2007
2010
2013
2016
2019
2022
2025
2028
2031
2034
2037
Year

Grenier B #4E
Mesaverde / Chacra Recomplete
29N – 10W – 04C