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
__X__ 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	
CAIN	16	M-30-29N-09W	SAN JUAN
Lease	Well No.	Unit Letter-Section-Township-Range	County

OGRID No. 14538 Property Code 18487 API No. 30-045-07794 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	6374'-6556'
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)	463 PSI – CURRENT 1152 PSI – ORIGINAL (see attachment)	621 PSI – CURRENT 2337 PSI – ORIGINAL (see attachment)
Oil Gravity or Gas BTU (Degree API or Gas BTU)	1076	1244	1190
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: 5/31/01 Rates: 14 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 08/28/01
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-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

[1] API Number	[2] Pool Code	[3] Pool Name
30-045-07794	82329/72319/71599	Otero Chacra/Blanco Mesaverde/Basin Dakota

[4] Property Code	[5] Property Name	[6] Well Number
18487	Cain	16

[7] OGRID No.	[8] Operator Name	[9] Elevation
14538	Burlington Resources Oil & Gas Company, LP	5657'GL

[10] Surface Location

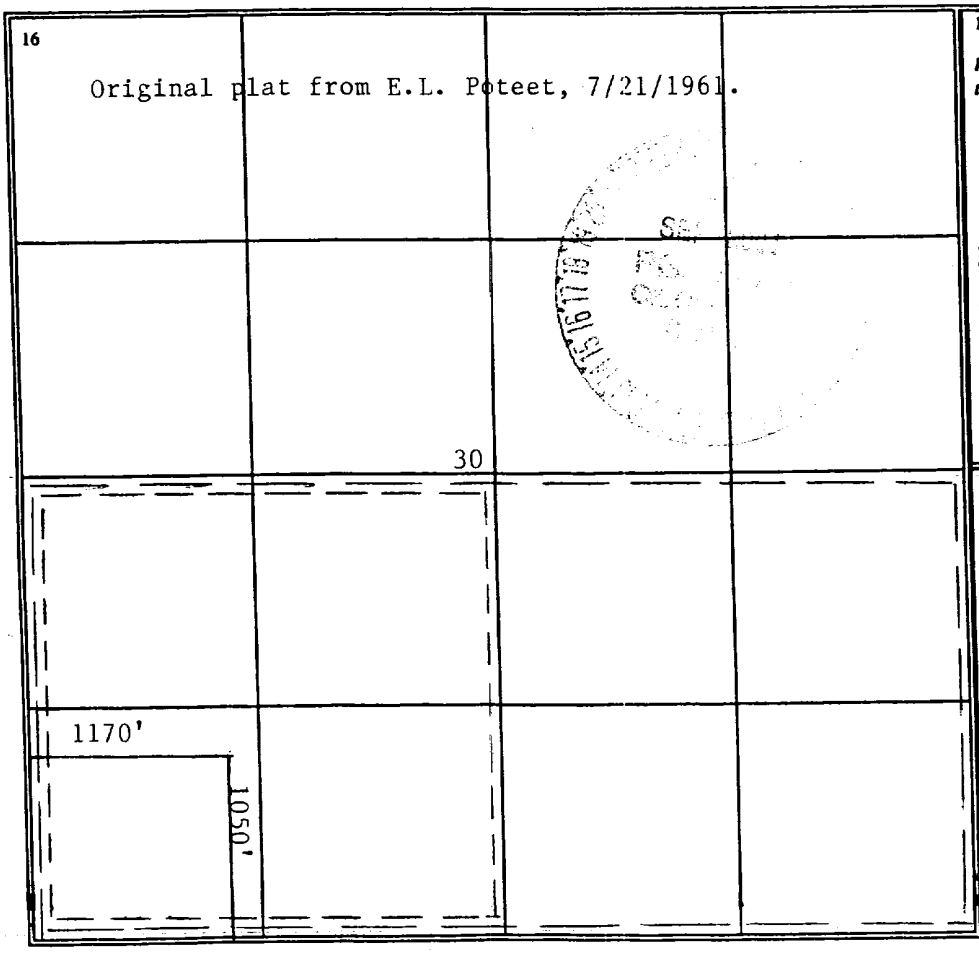
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	30	29N	9W		1050	South	1170	West	San Juan

[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

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
Cha:SW/96.69 MV/DK:S/268.42			

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 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.

Date of Survey
Signature and Seal of Professional Surveyer:
Certificate Number

Cain #16

Existing Dakota Well

Well Name	Date	Well Head Pressure
Cain 16	8/26/1961	1,959
Cain 16	6/25/1969	549
Cain 16	5/1/1973	480
Cain 16	4/17/1975	480
Cain 16	7/2/1977	536
Cain 16	5/1/1979	482
Cain 16	9/15/1982	580
Cain 16	8/23/1983	611
Cain 16	6/11/1985	605
Cain 16	5/27/1991	533

Cain #16

Offset Mesaverde Well

WellName	Date	Well Head Pressure
Gerk Gas Com 1	11/19/1958	1,017
Gerk Gas Com 1	6/30/1970	595
Gerk Gas Com 1	4/22/1971	591
Gerk Gas Com 1	5/18/1972	520
Gerk Gas Com 1	4/18/1974	42
Gerk Gas Com 1	5/25/1976	391
Gerk Gas Com 1	3/29/1978	361
Gerk Gas Com 1	5/21/1980	398
Gerk Gas Com 1	5/24/1982	416
Gerk Gas Com 1	6/8/1984	430
Gerk Gas Com 1	4/8/1986	414

Cain #16

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

Cain #16

Bottom Hole Pressures

Flowing and Static BHP

Cullender and Smith Method

Version 1.0 3/13/94

Mesaverde

MV-Current

GAS GRAVITY	0.719
COND. OR MISC. (C/M)	C
%N2	0.31
%CO2	0.82
%H2S	0
DIAMETER (IN)	2.375
DEPTH (FT)	4261
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	414
BOTTOMHOLE PRESSURE (PSIA)	462.7

MV-Original

GAS GRAVITY	0.719
COND. OR MISC. (C/M)	C
%N2	0.31
%CO2	0.82
%H2S	0
DIAMETER (IN)	2.375
DEPTH (FT)	4261
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1017
BOTTOMHOLE PRESSURE (PSIA)	1152.0

Dakota

DK-Current

GAS GRAVITY	0.695
COND. OR MISC. (C/M)	C
%N2	0.416
%CO2	1.427
%H2S	0
DIAMETER (IN)	2.375
DEPTH (FT)	6333
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	198
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	533
BOTTOMHOLE PRESSURE (PSIA)	620.7

DK-Original

GAS GRAVITY	0.695
COND. OR MISC. (C/M)	C
%N2	0.416
%CO2	1.427
%H2S	0
DIAMETER (IN)	2.375
DEPTH (FT)	6333
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	198
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1959
BOTTOMHOLE PRESSURE (PSIA)	2336.8

Cain #16

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

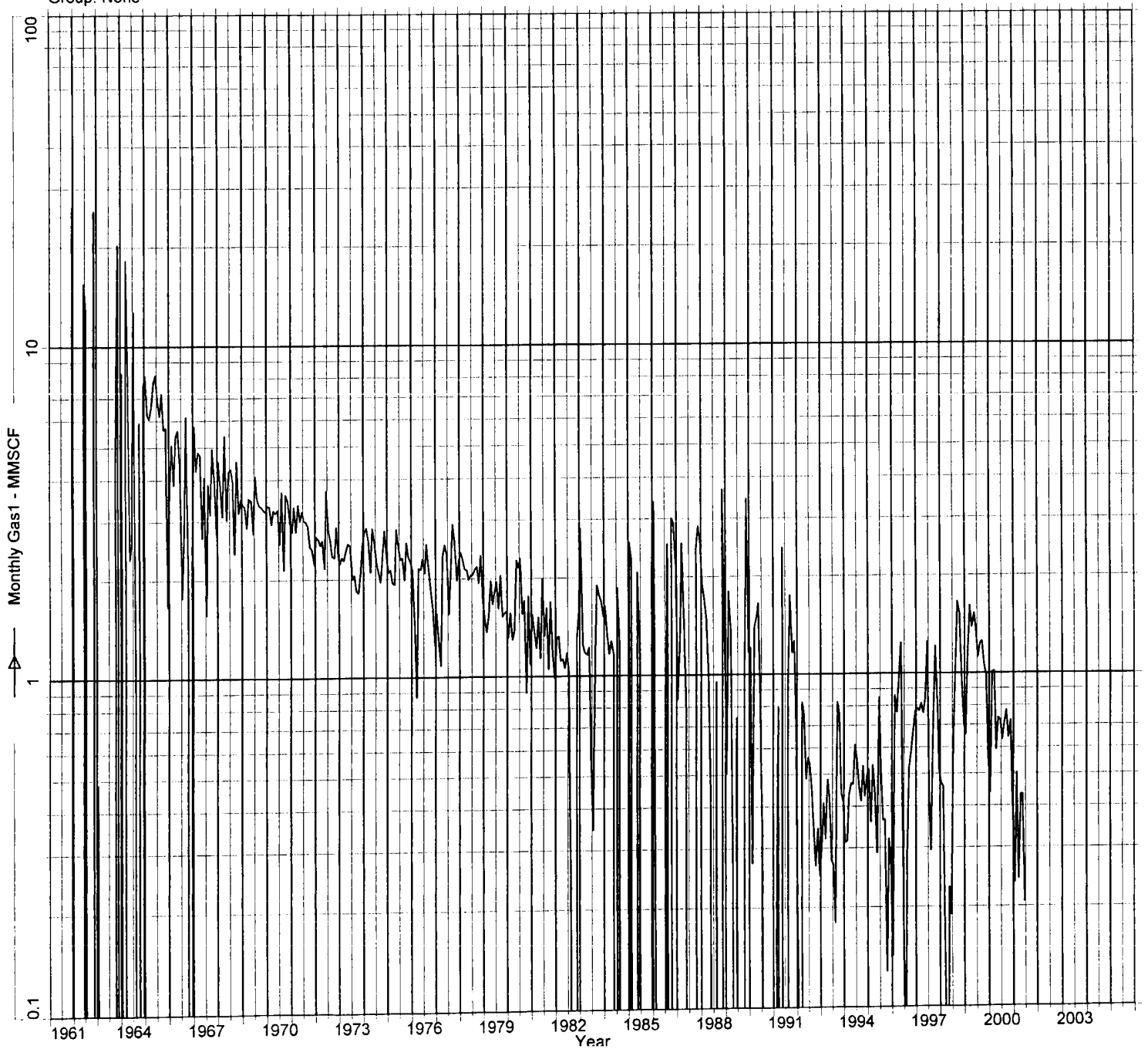
GAS GRAVITY	0.613
COND. OR MISC. (C/M)	C
%N2	0.15
%CO2	0.613
%H2S	0
DIAMETER (IN)	2.375
DEPTH (FT)	3266
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	672
BOTTOMHOLE PRESSURE (PSIA)	723.6

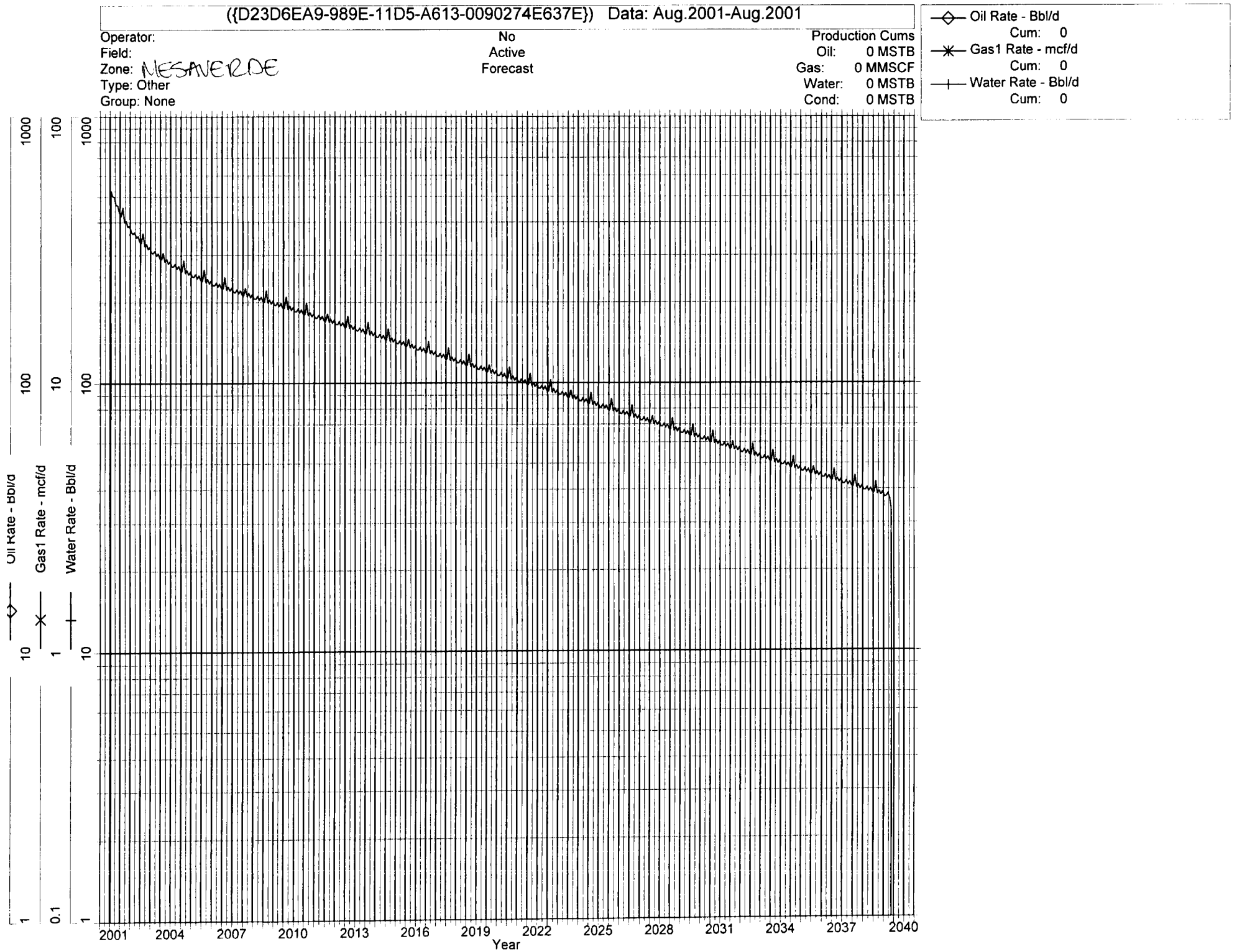
CAIN 16 774101 (245134133750.653) Data: Jan.1961-Jun.2001

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: 927.08 MMSCF
Water: 0.302512 MSTB
Cond: 9.55049 MSTB

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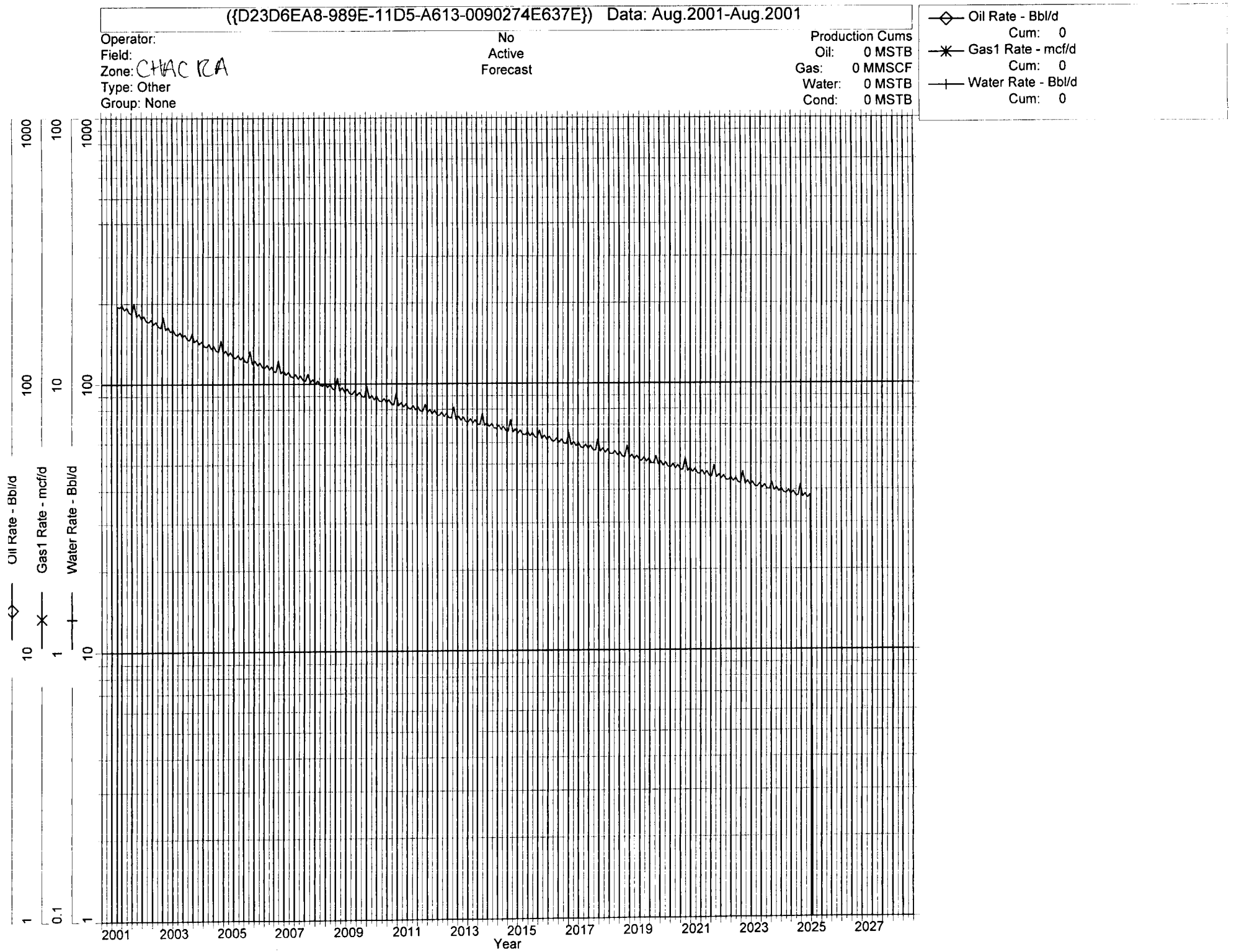
Operator:
Field:
Zone: MESAVERDE
Type: Other
Group: None
No
Active
Forecast
Production Cums
Oil: 0 MSTB
Gas: 0 MMSCF
Water: 0 MSTB
Cond: 0 MSTB
Oil Rate - Bbl/d
Cum: 0
Gas1 Rate - mcf/d
Cum: 0
Water Rate - Bbl/d
Cum: 0
Oil Rate - Bbl/d
Gas1 Rate - mcf/d
Water Rate - Bbl/d
1000
100
10
1
0.1
2001
2004
2007
2010
2013
2016
2019
2022
2025
2028
2031
2034
2037
2040
Year


({D23D6EA8-989E-11D5-A613-0090274E637E}) Data: Aug.2001-Aug.2001
Operator:
Field:
Zone: CHAC RA
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
0.1
2001
2003
2005
2007
2009
2011
2013
2015
2017
2019
2021
2023
2025
2027
Year

Cain #16
Mesaverde / Chacra Recomplete
29N – 09W – 30M