DATE IN	SUSPENSE	ENGINEER	LOGGED IN	TYPE	APP NO.
1/24/01	2/13/01	DC	KV	DHC	103647934

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -
1220 South St. Francis Drive, Santa Fe, NM 87505

2876

ADMINISTRATIVE APPLICATION COVERSHEET

THIS COVERSHEET 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]

RECEIVED
JAN 24
OIL CONSERVATION DIVISION

[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

[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] **INFORMATION / DATA SUBMITTED IS COMPLETE** - Certification

I hereby certify that I, or personnel under my supervision, have reviewed the applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common.

I understand that any omission of data (including API numbers, pool codes, etc.), pertinent information and any required notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Peggy Cole	Peggy Cole	Regulatory Supervisor	1-22-01
Print or Type Name	Signature	Title	Date

pbradfield@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

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

JICARILLA 101 | 2 | M-12-26N-4W | RIO ARRIBA

Lease | Well No. | Unit Letter-Section-Township-Range | County

OGRID No. 14538 Property Code 18557 API No. 30-039-20291 Lease Type: X Federal State Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	BLANCO MESAVERDE	WILD HORSE GALLUP	BASIN DAKOTA
Pool Code	72319	87360	71599
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	WILL BE SUPPLIED UPON COMPLETION	7282'-7290'	7762'-7940'
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)	566 PSI – CURRENT 896 PSI – ORIGINAL (see attachment)	497 PSI – CURRENT 862 PSI – ORIGINAL (see attachment)	772 PSI – CURRENT 2832 PSI – ORIGINAL (see attachment)
Oil Gravity or Gas BTU (Degree API or Gas BTU)	1186	1210	1324
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: 12/31/00 Rates: 0	Date: 12/31/00 Rates: 22 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.
- 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 Sean E. Corrigan TITLE Production Engineer DATE 01/22/01
nco
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
30-039-20291	72319/87360/71599	Blanco Mesaverde/Wildhorse Gallup/Basin Dakota

[4] Property Code	[5] Property Name	[6] Well Number
18557	Jicarilla 101	2

[7] OGRID No.	[8] Operator Name	[9] Elevation
14538	Burlington Resources Oil & Gas Company	6894' GR

[10] Surface Location

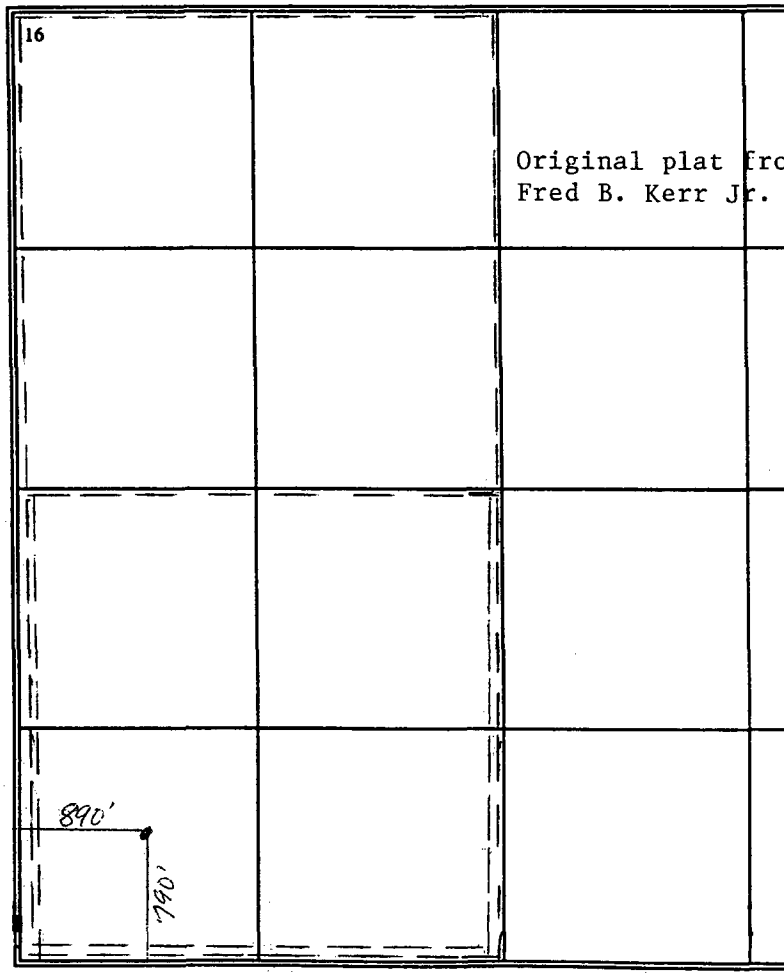
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	12	26N	4W		790'	South	890'	West	Rio Arriba

[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	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
Gal - 160 MV-DK W/320			

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

Jicarilla 101 #2

Bottom Hole Pressures

Flowing and Static BHP

Cullender and Smith Method

Version 1.0 3/13/94

Gallup

GP-Current

GAS GRAVITY	0.7
COND. OR MISC. (C/M)	C
%N2	0.41
%CO2	0.97
%H2S	0
DIAMETER (IN)	2.375
DEPTH (FT)	7706
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	410
BOTTOMHOLE PRESSURE (PSIA)	498.6

GP-Original

GAS GRAVITY	0.7
COND. OR MISC. (C/M)	C
%N2	0.41
%CO2	0.97
%H2S	0
DIAMETER (IN)	2.375
DEPTH (FT)	7706
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	701
BOTTOMHOLE PRESSURE (PSIA)	861.8

Dakota

DK-Current

GAS GRAVITY	0.771
COND. OR MISC. (C/M)	C
%N2	0.54
%CO2	0.764
%H2S	0
DIAMETER (IN)	1.5
DEPTH (FT)	7792
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	198
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	622
BOTTOMHOLE PRESSURE (PSIA)	771.8

DK-Original

GAS GRAVITY	0.771
COND. OR MISC. (C/M)	C
%N2	0.54
%CO2	0.764
%H2S	0
DIAMETER (IN)	1.5
DEPTH (FT)	7792
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	198
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	2198
BOTTOMHOLE PRESSURE (PSIA)	2832.2

Jicarilla 101 #2

Bottom Hole Pressures

Flowing and Static BHP

Cullender and Smith Method

Version 1.0 3/13/94

Mesaverde

MV-Current

GAS GRAVITY	0.683
COND. OR MISC. (C/M)	C
%N2	0.278
%CO2	0.969
%H2S	0
DIAMETER (IN)	1.5
DEPTH (FT)	6033
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	487
BOTTOMHOLE PRESSURE (PSIA)	566.3

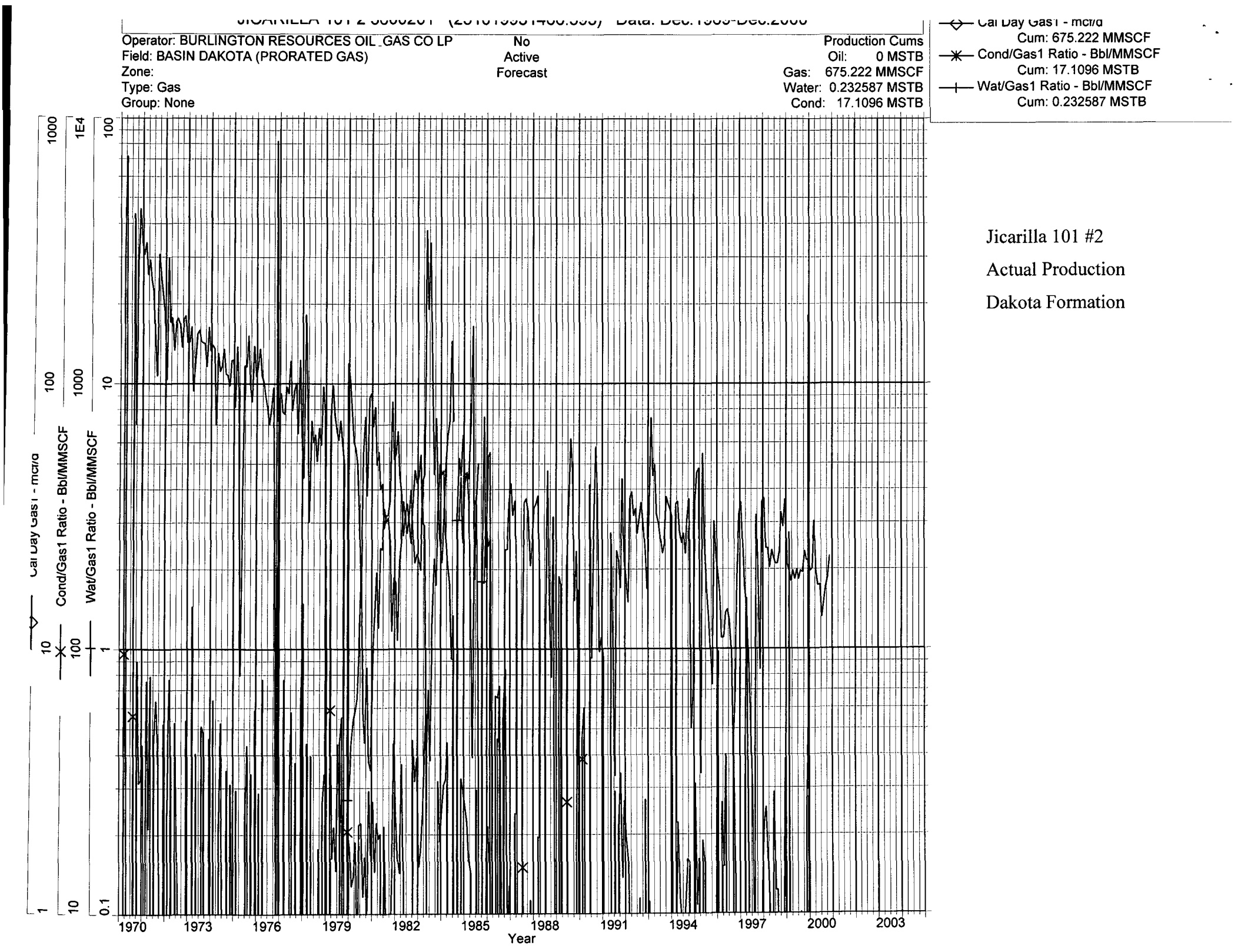
MV-Original

GAS GRAVITY	0.683
COND. OR MISC. (C/M)	C
%N2	0.278
%CO2	0.969
%H2S	0
DIAMETER (IN)	1.5
DEPTH (FT)	6033
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	765
BOTTOMHOLE PRESSURE (PSIA)	896.2

	Well Name	Date			PSI
DK	JICARILLA 101 2 3600201	1969	12	10	2,198
DK	JICARILLA 101 2 3600201	1970	12	17	2,185
DK	JICARILLA 101 2 3600201	1971	7	17	796
DK	JICARILLA 101 2 3600201	1972	5	18	860
DK	JICARILLA 101 2 3600201	1973	9	1	846
DK	JICARILLA 101 2 3600201	1975	7	25	936
DK	JICARILLA 101 2 3600201	1977	5	16	871
DK	JICARILLA 101 2 3600201	1979	10	24	850
DK	JICARILLA 101 2 3600201	1980	12	31	752
DK	JICARILLA 101 2 3600201	1981	4	8	752
DK	JICARILLA 101 2 3600201	1983	3	31	622

	Well Name	Date			PSI
GP	JICARILLA A 14 3582001	1973	10	29	701
GP	JICARILLA A 14 3582001	1974	8	16	506
GP	JICARILLA A 14 3582001	1975	5	18	441
GP	JICARILLA A 14 3582001	1976	4	17	414
GP	JICARILLA A 14 3582001	1977	4	17	405
GP	JICARILLA A 14 3582001	1979	6	1	582
GP	JICARILLA A 14 3582001	1982	1	1	410

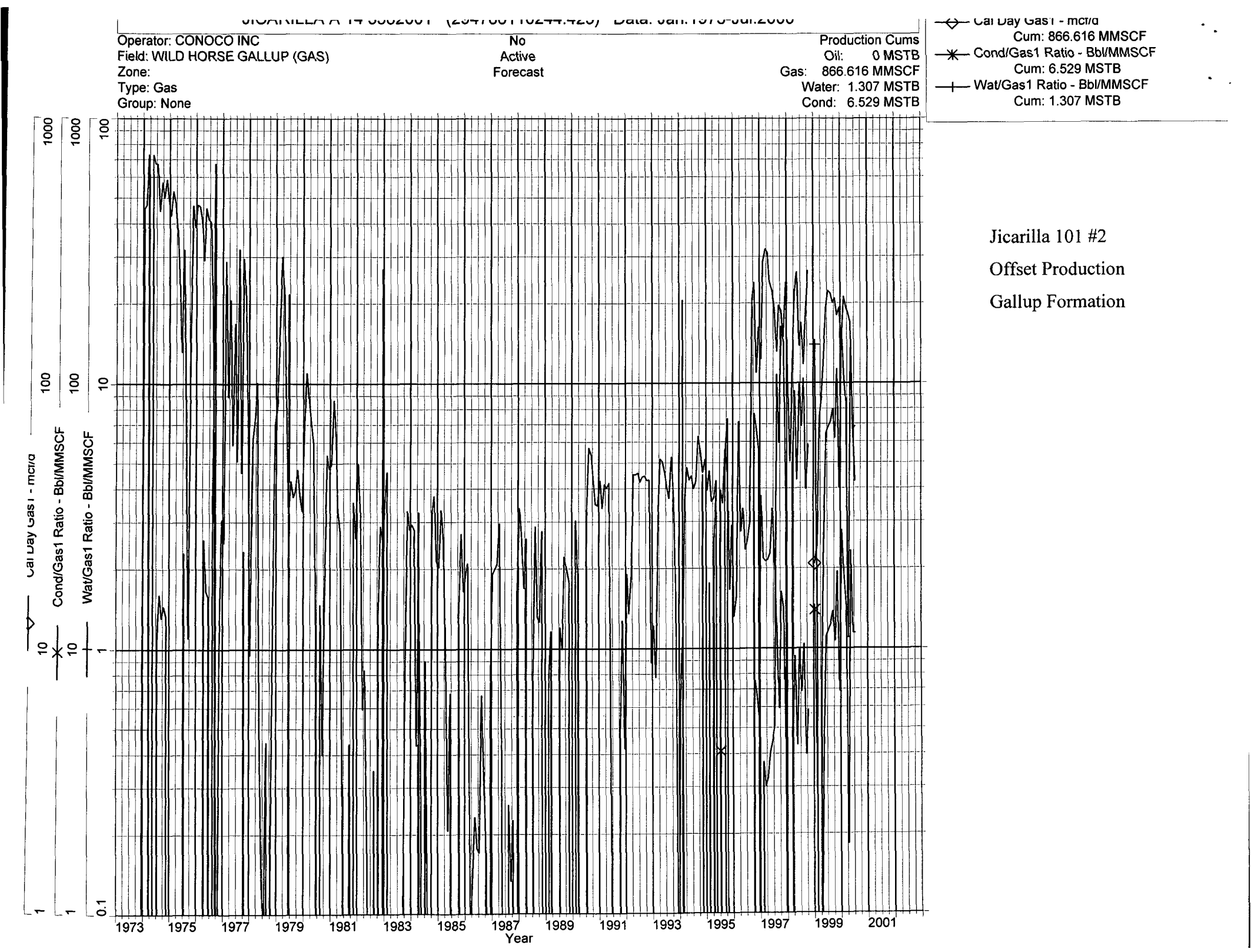
	Well Name	Date			PSI
MV	JICARILLA 101 3M 3603702	1985	5	31	765
MV	JICARILLA 101 3M 3603702	1986	3	11	656
MV	JICARILLA 101 3M 3603702	1987	4	21	620
MV	JICARILLA 101 3M 3603702	1989	10	12	723
MV	JICARILLA 101 3M 3603702	1991	7	17	525
MV	JICARILLA 101 3M 3603702	1991	7	31	537
MV	JICARILLA 101 3M 3603702	1993	5	5	487



Jicarilla 101 #2

Actual Production

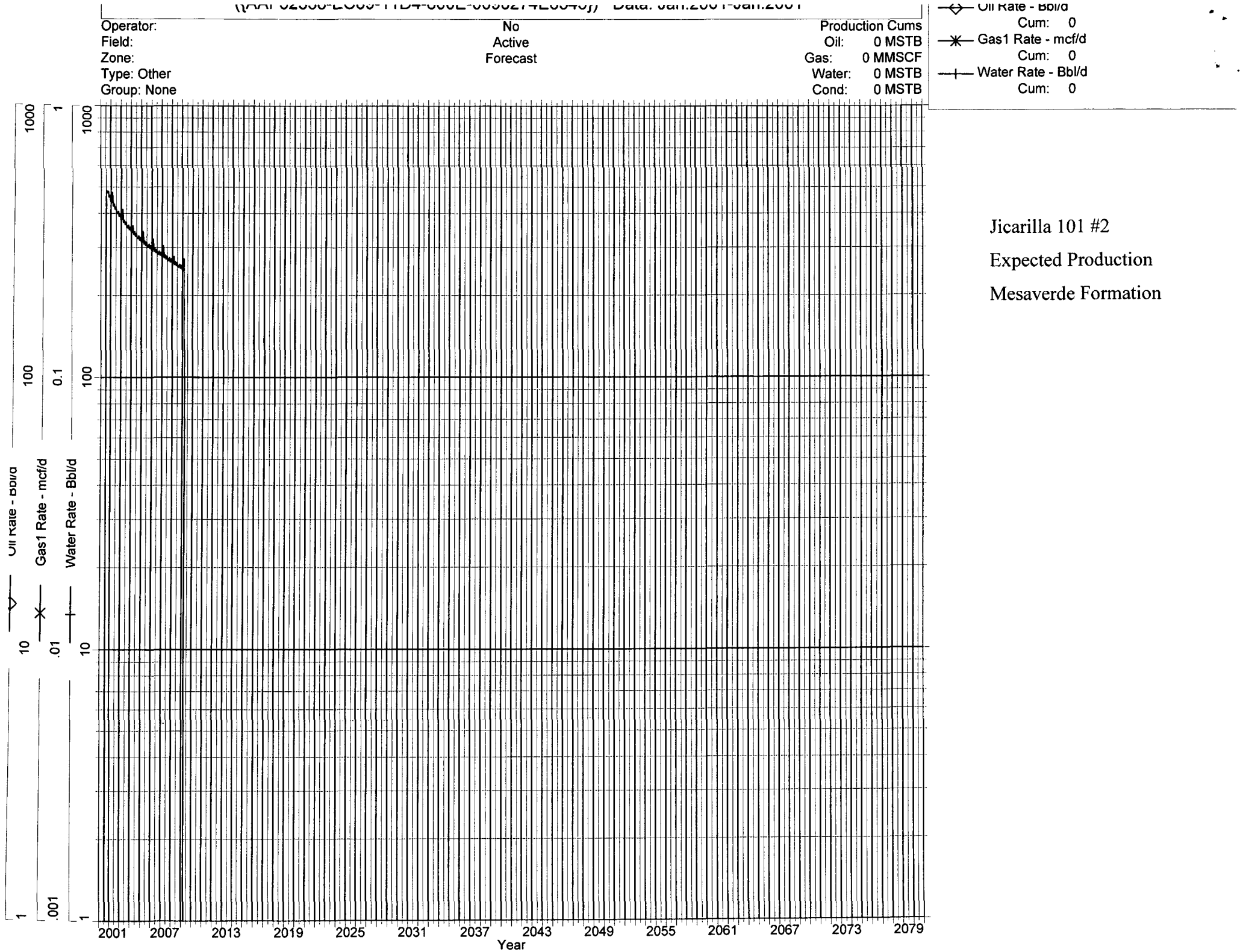
Dakota Formation



Jicarilla 101 #2

Offset Production

Gallup Formation



Jicarilla 101 #2

Expected Production

Mesaverde Formation

Jicarilla 101 #2

Mesaverde / Gallup / Dakota

26N – 4W – 12