

DATE IN 2/28/00	SUSPENSE 3/20/00	ENGINEER DC	LOGGED KN	TYPE DHC
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION  
- Engineering Bureau -

2687

**ADMINISTRATIVE APPLICATION COVERSHEET**

THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS

Application Acronyms:

- [NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location]
- [DD-Directional Drilling] [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]

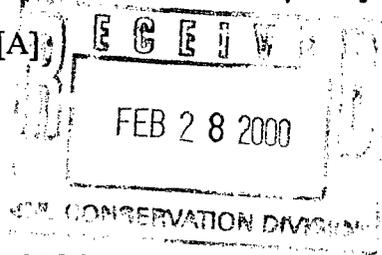
[1] TYPE OF APPLICATION - Check Those Which Apply for [A]

- [A] Location - Spacing Unit - Directional Drilling  
NSL NSP DD SD

Check One Only for [B] and [C]

- [B] Commingling - Storage - Measurement  
X 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] X 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 - Statement of Understanding

I hereby certify that I, or personnel under my supervision, have read and complied with all 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, information or notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with supervisory capacity.

Peggy Cole

*Peggy Cole*  
Signature

Regulatory/Compliance Administrator

Print or Type Name

Title

Date

DISTRICT I  
1625 N. French Dr., Hobbs, NM 88240  
DISTRICT II  
811 South First St., Artesia, NM 88210  
DISTRICT III  
1000 Rio Brazos Rd, Aztec, NM 87410  
DISTRICT IV  
2040 S. Pacheco, Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals and Natural Resources Department  
**OIL CONSERVATION DIVISION**

Form C-107-A  
Revised August 1999

2040 S. Pacheco  
Santa Fe, New Mexico 87505-6429

APPROVAL PROCESS:  
\_\_\_ Administrative \_\_\_ Hearing  
EXISTING WELLBORE  
\_\_\_X\_\_\_ YES \_\_\_ NO

**APPLICATION FOR DOWNHOLE COMMINGLING**

BURLINGTON RESOURCES OIL & GAS COMPANY

PO BOX 4289, FARMINGTON, NM 87499

Operator \_\_\_\_\_ Address \_\_\_\_\_

JICARILLA 150

12

N 01-26N-05W

RIO ARRIBA

Lease \_\_\_\_\_ Well No. \_\_\_\_\_ Unit Ltr. - Sec - Twp - Rge \_\_\_\_\_ County \_\_\_\_\_

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 14538 Property Code 16344 API NO. 30-039-24211 Federal  State \_\_\_\_\_ (and/or) Fee \_\_\_\_\_

The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zone	Lower Zone
1. Pool Name and Pool Code	WILDCAT CHACRA	BLANCO MESAVERDE - 72319	BS MESA GALLUP - 72920
2. Top and Bottom of Pay Section (Perforations)	WILL BE SUPPLIED UPON COMPLETION	WILL BE SUPPLIED UPON COMPLETION	WILL BE SUPPLIED UPON COMPLETION
3. Type of production (Oil or Gas)	GAS	GAS	GAS
4. Method of Production (Flowing or Artificial Lift)	FLOWING	FLOWING	FLOWING
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated Or Measured Original	a. (Current) 337 psi (see attachment)	a. (Current) 544 psi (see attachment)	a. (Current) 772 psi (see attachment)
	b. (Original) 873 psi (see attachment)	b. (Original) 1151 psi (see attachment)	b. (Original) 1630 psi (see attachment)
6. Oil Gravity (EAPI) or Gas BTU Content	BTU 1180	BTU 1192	BTU 1253
7. Producing or Shut-In?	SHUT-IN	SHUT-IN	SHUT-IN
Production Marginal? (yes or no)  * If Shut-In, give 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  * If Producing, give date and oil/gas/water rates of recent test (within 60 days)	NO	NO	YES
	Date: N/A Rates:	Date: N/A Rates:	Date: N/A Rates:
	Date: N/A Rates:	Date: N/A Rates:	Date: N/A Rates:
8. Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%)	Oil: _____ Gas: _____ WILL BE SUPPLIED UPON COMPLETION	Oil: _____ Gas: _____ WILL BE SUPPLIED UPON COMPLETION	Oil: _____ Gas: _____ WILL BE SUPPLIED UPON COMPLETION

9. If allocation formula is based upon something other than current or past production, or is based upon some other method, submit attachments with supporting data and/or explaining method and providing rate projections or other required data.

10. Are all working, overriding, and royalty interests identical in all commingled zones?  Yes \_\_\_ No

11. Will cross-flow occur?  Yes \_\_\_ No If yes, are fluids compatible, will the formations not be damaged, will any cross-flowed production be recovered, and will the allocation formula be reliable.  Yes \_\_\_ No (If No, attach explanation)

12. Are all produced fluids from all commingled zones compatible with each other?  Yes \_\_\_ No

13. Will the value of production be decreased by commingling? \_\_\_ Yes  No (If Yes, attach explanation)

14. If this well is on, or communitized with, state or federal lands, either the Commissioner of Public Lands or the United States Bureau of Land Management has been notified in writing of this application.  Yes \_\_\_ No

15. NMOCD Reference Cases for Rule 303(D) Exceptions: ORDER NO(S).

16. 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.

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: 02/23/00

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

<sup>1</sup> API Number 30-039-24211	<sup>2</sup> Pool Code 72319/72920	<sup>3</sup> Pool Name Wildcat Chacra Blanco Mesaverde/B. S. Mesa Gallup
<sup>4</sup> Property Code 16344	<sup>5</sup> Property Name Jicarilla 150	
<sup>6</sup> OGRID No. 14538	<sup>7</sup> Operator Name Burlington Resources Oil & Gas Company	<sup>8</sup> Well Number 12 <sup>9</sup> Elevation 7338 GR

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	1	26N	5W		885	South	2465	West	RA

<sup>11</sup> 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

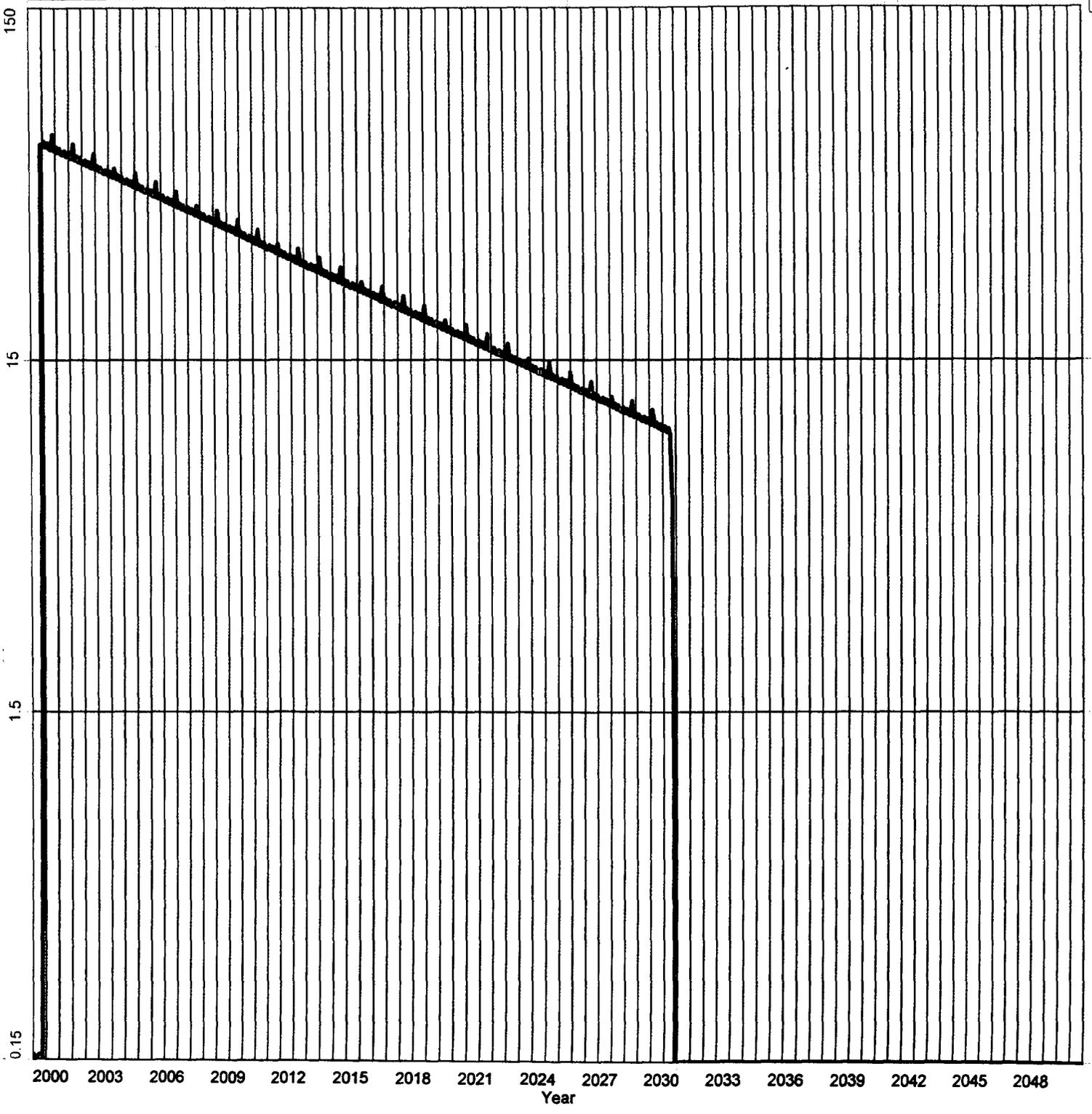
<sup>12</sup> Dedicated Acres MV-W/319.88 Gal-160.84 Cha-160	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<sup>16</sup>  Original plat from Cecil B. Tullis 11-3-87	<sup>17</sup> OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</i>	
	 Signature	
	Peggy Cole Printed Name Regulatory Administrator Title	
	Date 2-1-00	
<sup>18</sup> SURVEYOR CERTIFICATION <i>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.</i>	Date of Survey	
	Signature and Seal of Professional Surveyer:	
	Certificate Number	

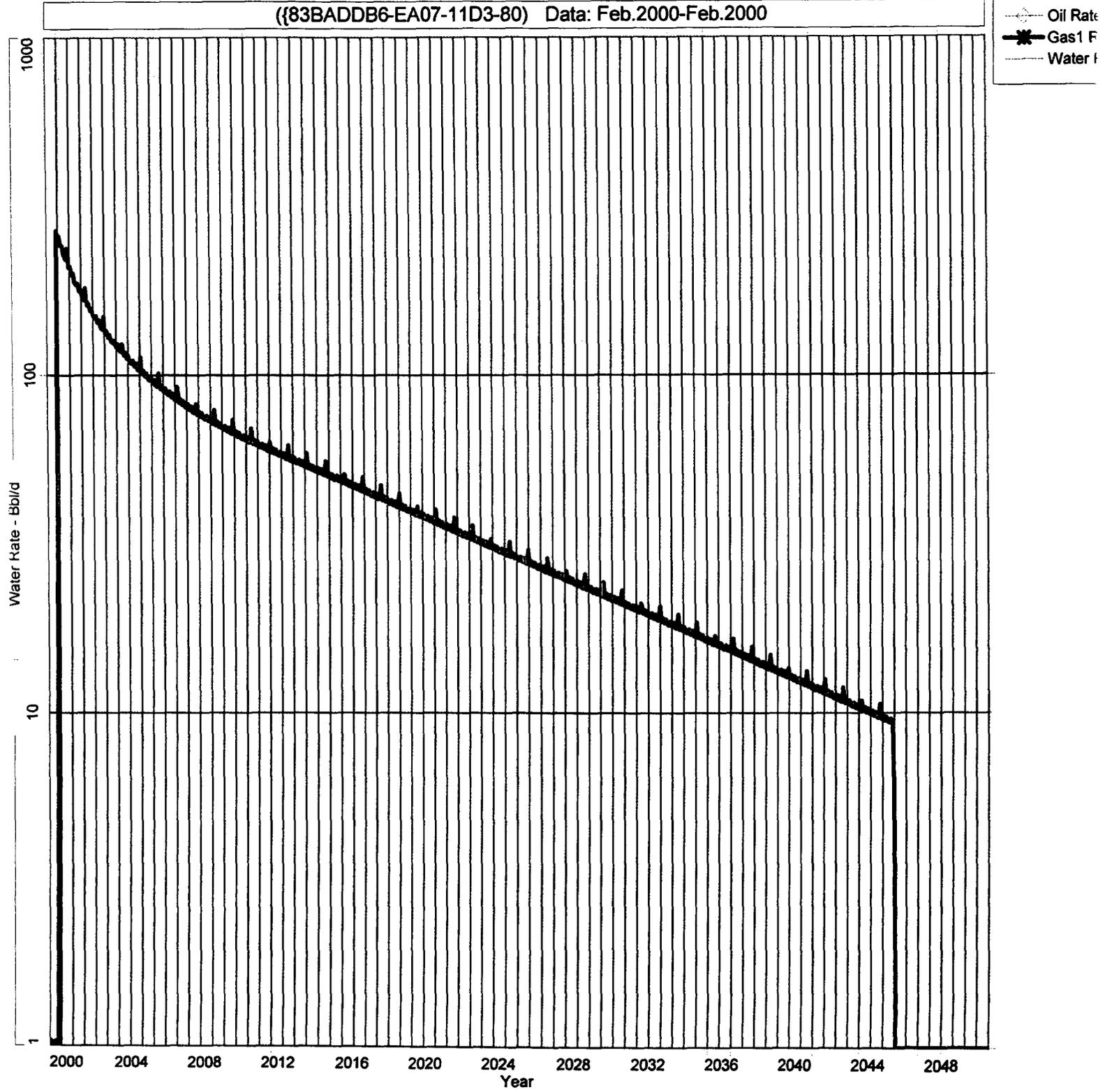
Jicarilla 150 #12  
Expected Chacra Production

{{83BADDB4-EA07-11D3-80} Data: Feb.2000-Feb.2000

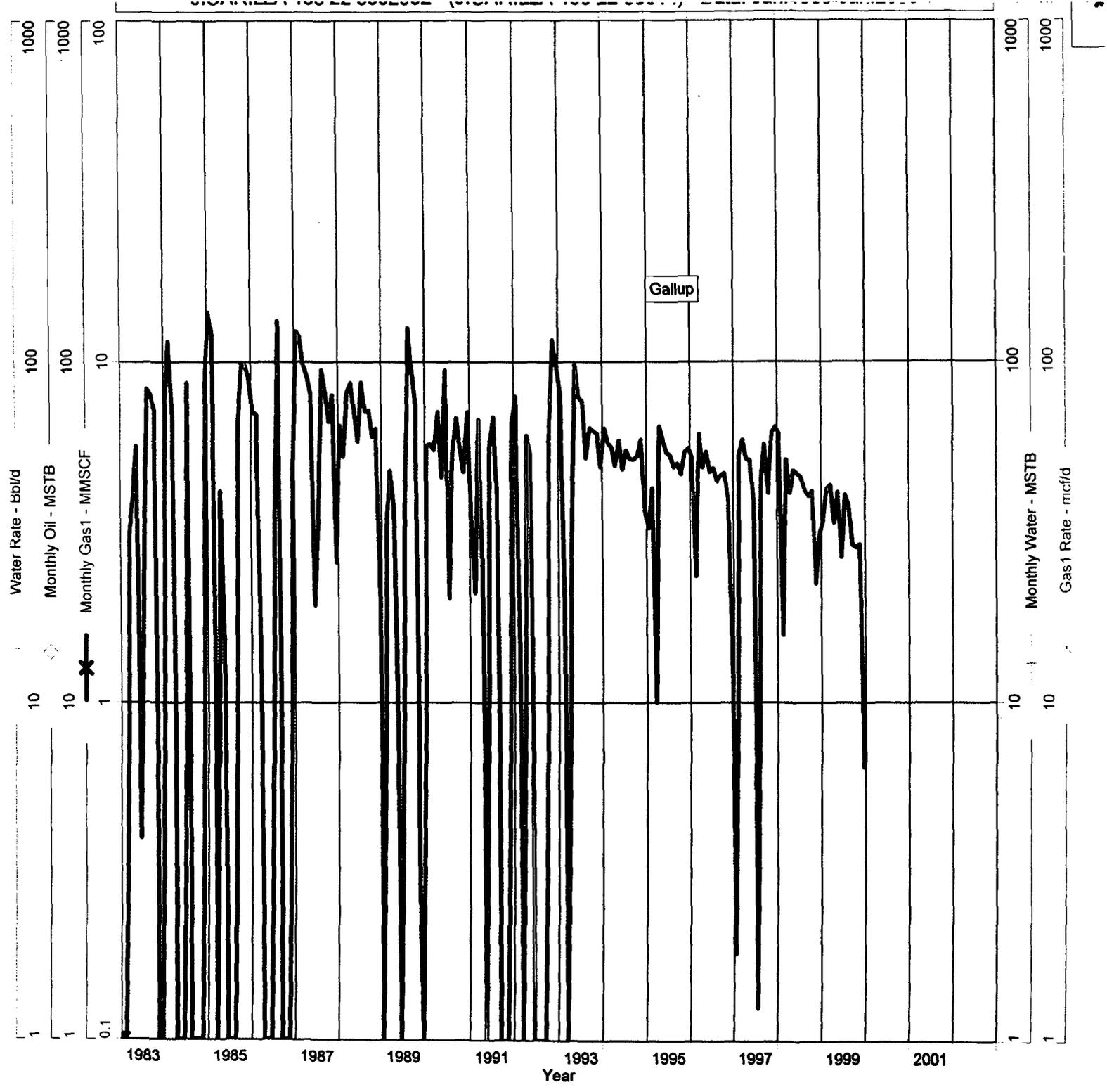


Jicarilla 150 #12  
Expected Mesaverde Production

{83BADDB6-EA07-11D3-80} Data: Feb.2000-Feb.2000



Jicarilla 150 #12  
Actual Gallup Production



**Jicarilla 150 #12**  
 Bottom Hole Pressures  
 Flowing and Static BHP  
 Cullender and Smith Method  
 Version 1.0 3/13/94

<b>Mesaverde</b>		<b>Gallup</b>	
<b><u>MV-Current</u></b>		<b><u>GP-Current</u></b>	
GAS GRAVITY	0.688	GAS GRAVITY	0.723
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.47	%N2	0.36
%CO2	0.9	%CO2	0.73
%H2S	0	%H2S	0
DIAMETER (IN)	1.5	DIAMETER (IN)	2.375
DEPTH (FT)	5632	DEPTH (FT)	7715
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137	BOTTOMHOLE TEMPERATURE (DEG F)	198
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	472	SURFACE PRESSURE (PSIA)	633
BOTTOMHOLE PRESSURE (PSIA)	543.8	BOTTOMHOLE PRESSURE (PSIA)	771.7
<b><u>MV-Original</u></b>		<b><u>GP-Original</u></b>	
GAS GRAVITY	0.688	GAS GRAVITY	0.723
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.47	%N2	0.36
%CO2	0.9	%CO2	0.73
%H2S	0	%H2S	0
DIAMETER (IN)	1.5	DIAMETER (IN)	2.375
DEPTH (FT)	5632	DEPTH (FT)	7715
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137	BOTTOMHOLE TEMPERATURE (DEG F)	198
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	986	SURFACE PRESSURE (PSIA)	1309
BOTTOMHOLE PRESSURE (PSIA)	1151.0	BOTTOMHOLE PRESSURE (PSIA)	1629.9

## Jicarilla 150 #12

Bottom Hole Pressures

Flowing and Static BHP

Cullender and Smith Method

Version 1.0 3/13/94

<b>Chacra</b>		<b>Mesaverde</b>	
<u>CH-Current</u>		<u>MV-Current</u>	
GAS GRAVITY	0.671	GAS GRAVITY	0.688
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.51	%N2	0.47
%CO2	0.26	%CO2	0.9
%H2S	0	%H2S	0
DIAMETER (IN)	1.25	DIAMETER (IN)	1.5
DEPTH (FT)	3276	DEPTH (FT)	5632
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137	BOTTOMHOLE TEMPERATURE (DEG F)	137
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	312	SURFACE PRESSURE (PSIA)	472
BOTTOMHOLE PRESSURE (PSIA)	337.2	BOTTOMHOLE PRESSURE (PSIA)	543.8
<u>CH-Original</u>		<u>MV-Original</u>	
GAS GRAVITY	0.671	GAS GRAVITY	0.688
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.51	%N2	0.47
%CO2	0.26	%CO2	0.9
%H2S	0	%H2S	0
DIAMETER (IN)	1.25	DIAMETER (IN)	1.5
DEPTH (FT)	3276	DEPTH (FT)	5632
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137	BOTTOMHOLE TEMPERATURE (DEG F)	137
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	802	SURFACE PRESSURE (PSIA)	986
BOTTOMHOLE PRESSURE (PSIA)	872.6	BOTTOMHOLE PRESSURE (PSIA)	1151.0

Jicarilla 150 #12

Chacra Offset

<u>Well Name</u>	<u>Date</u>	<u>Pressure</u>
VAUGHN 11	4/29/70	802
VAUGHN 11	4/14/71	469
VAUGHN 11	8/1/72	428
VAUGHN 11	8/28/73	406
VAUGHN 11	4/28/75	260
VAUGHN 11	3/1/93	312

Jicarilla 150 #12

Existing Gallup

	<u>Date</u>	<u>Pressure</u>
Jicarilla 150 12	1980- 03- 27	1,309
Jicarilla 150 12	1981- 06- 1	664
Jicarilla 150 12	1982- 04- 9	607
Jicarilla 150 12	1983- 06- 9	633

Jicarilla 150 #12

Mesaverde Offset

	<u>Date</u>	<u>Pressure</u>
JICARILLA 150 1	1954- 09- 2	986
JICARILLA 150 1	1970- 10- 23	946
JICARILLA 150 1	1971- 09- 26	709
JICARILLA 150 1	1972- 04- 17	554
JICARILLA 150 1	1973- 05- 17	591
JICARILLA 150 1	1974- 06- 2	496
JICARILLA 150 1	1976- 05- 3	444
JICARILLA 150 1	1978- 05- 18	458
JICARILLA 150 1	1980- 07- 25	505
JICARILLA 150 1	1982- 04- 9	405
JICARILLA 150 1	1984- 05- 2	564
JICARILLA 150 1	1986- 04- 23	567
JICARILLA 150 1	1989- 11- 29	603
JICARILLA 150 1	1991- 05- 1	671
JICARILLA 150 1	1991- 05- 15	659
JICARILLA 150 1	1993- 06- 1	472

Jicarilla 150 #12  
Chacra / Mesaverde / Gallup  
26N - 5W - 01N

