

DISTRICT I
225 N. French Dr. Hobbs NM 88240
DISTRICT II
411 South First St. Artesia NM 88210
DISTRICT III
500 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

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

Form C-107-A
Revised August 1999

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

6458

Well No.

Unit Ltr. Sec. Two - Rge

County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 14538 Property Code 16344 API NO. 30-039-24211 Federal X 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) b. (Original) 873 psi (see attachment)	a. (Current) 544 psi (see attachment) b. (Original) 1151 psi (see attachment)	a. (Current) 772 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)	NO	NO	YES
* 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	Date: N/A Rates:	Date: N/A Rates:	Date: N/A Rates:
* If Producing, give date and oil/gas/water rates of recent test (within 60 days)	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? X Yes No

11. Will cross-flow occur? X 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. X Yes No (If No, attach explanation)

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

13. Will the value of production be decreased by commingling? Yes X 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. X 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

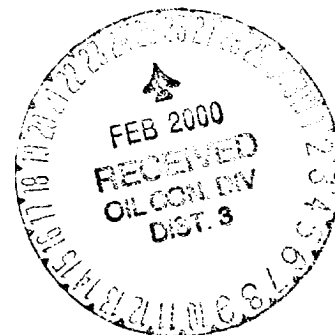
Sean E. Corrigan

TITLE PRODUCTION ENGINEER

DATE: 02/23/00

TYPE OR PRINT NAME SEAN E. CORRIGAN

TELEPHONE NO. 505-326-9700



District I
IN) 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-1
Revised February 21, 1990
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 30-039-24211	Pool Code 72319/72920	Pool Name Wildcat Chacra Blanco Mesaverde/B. S. Mesa Gallup
Property Code 16344	Property Name Jicarilla 150	Well Number 12
GRID No. 14538	Operator Name Burlington Resources Oil & Gas Company	Elevation 7338 GR

10 Surface Location

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

11 Bottom Hole Location If Different From Surface

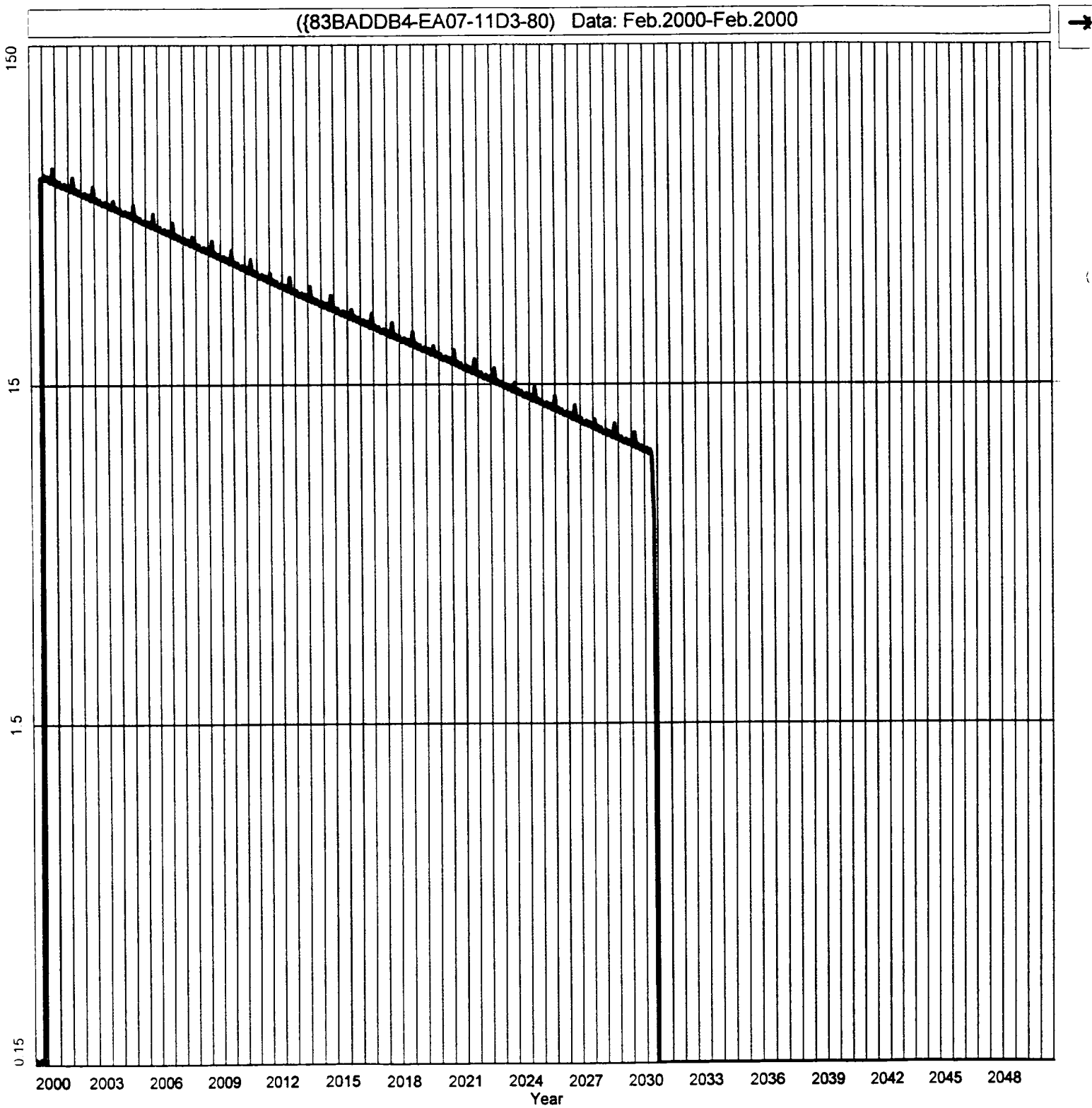
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
---------------	---------	----------	-------	---------	---------------	------------------	---------------	----------------	--------

12 Dedicated Acres MV-W/319.88 Gal-160.84 Cha-160	13 Joint or Infill	14 Consolidation Code	15 Order No.
---	--------------------	-----------------------	--------------

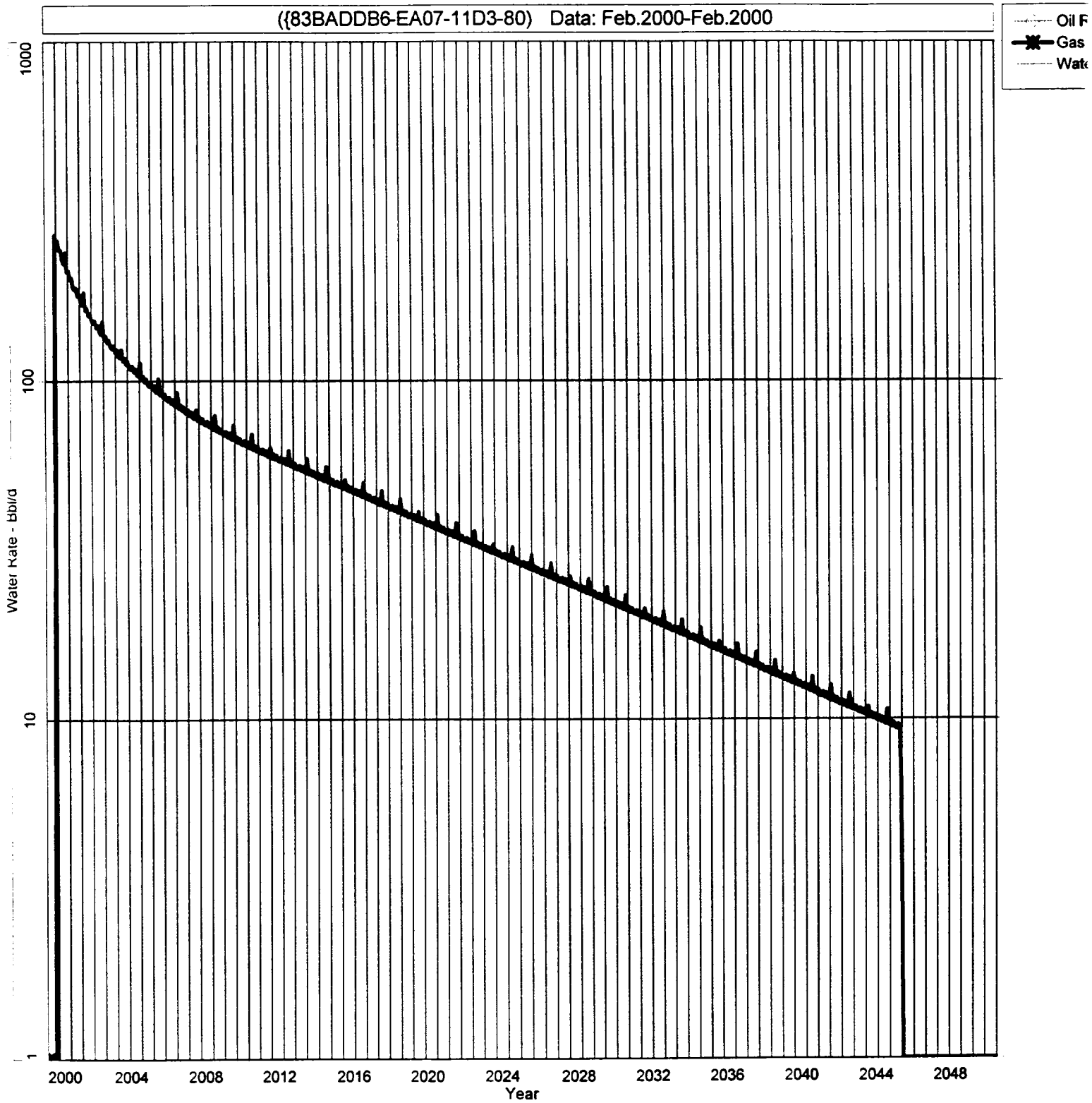
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16	Original plat from Cecil B. Tullis 11-3-87	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 Administrator Title Date 2-1-00
		18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by 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

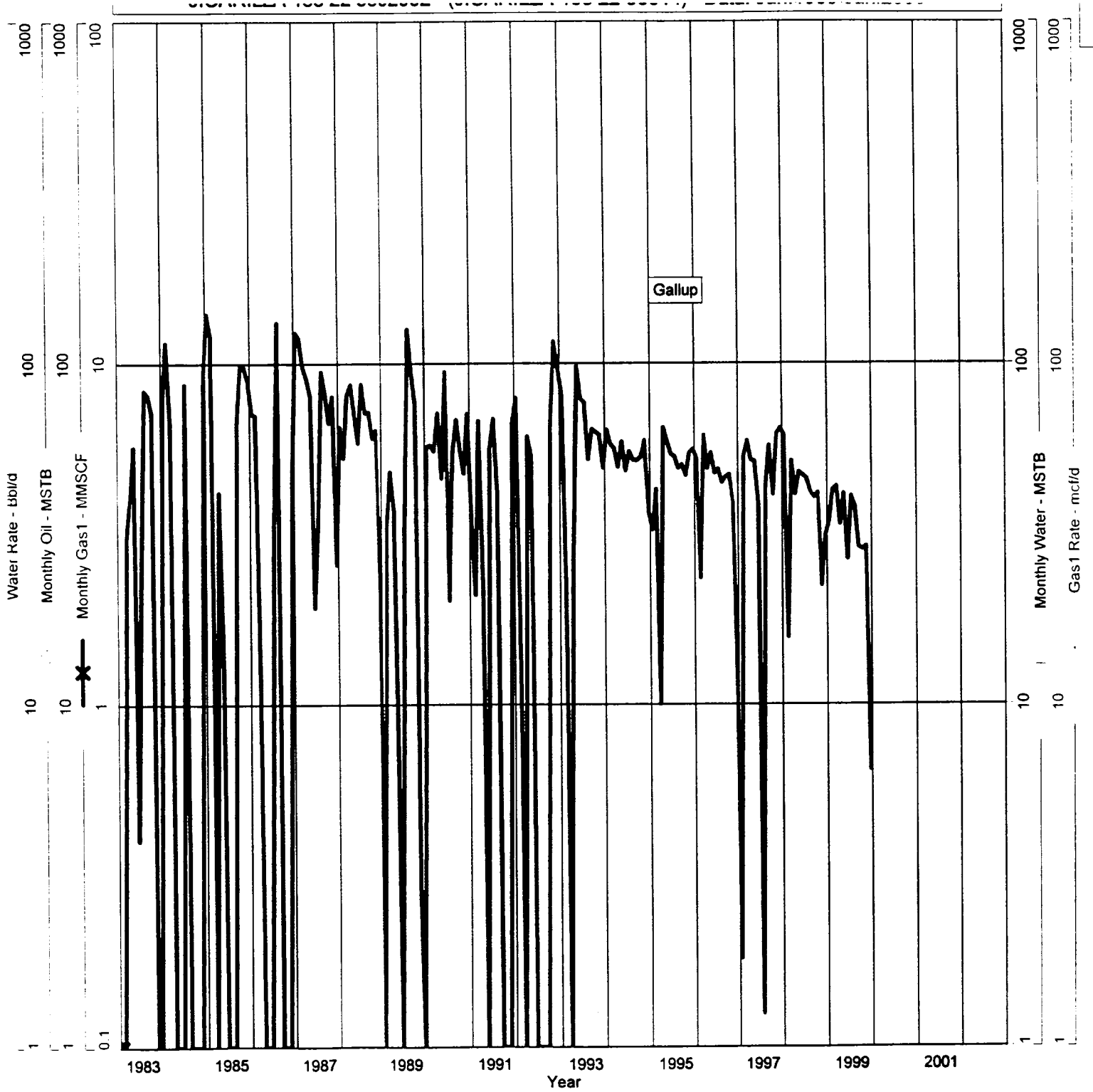
Jicarilla 150 #12
Expected Chacra Production



Jicarilla 150 #12
Expected Mesaverde Production



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

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

Jicarilla 150 #12
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	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

26N - 5W - 01N

