

DISTRICT I
1525 N. French Dr. Hobbs, NM 88240
DISTRICT II
811 South First St. Artesia, NM 88213
DISTRICT III
1000 Rio Brazos Rd. Aztec, NM 87412
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

APPLICATION FOR DOWNHOLE COMMINGLING

Form C-107-A
Revised August 1999

APPROVAL PROCESS:

Administrative Hearing

EXISTING WELLBORE

X YES NO

BURLINGTON RESOURCES OIL & GAS COMPANY

PO BOX 4289, FARMINGTON, NM 87499

Operator

Address

JICARILLA 150

1E

F 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. 30-039-23519 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		
2. Top and Bottom of Pay Section (Perforations)	WILL BE SUPPLIED UPON COMPLETION		
3. Type of production (Oil or Gas)	GAS		
4. Method of Production (Flowing or Artificial Lift)	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)		
6. Oil Gravity (EAPI) or Gas BTU Content	BTU 1180		
7. Producing or Shut-in?	SHUT-IN		
Production Marginal? (yes or no)	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)	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
1525 N. French Ln. - Artesia, NM 88240
DISTRICT II
411 South First St. - Artesia, NM 88210
DISTRICT III
1500 Rio Brazos Rd. - Artesia, NM 87410
DISTRICT IV
2040 S. Pacheco - Santa Fe, NM 87505

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PO BOX 4289, FARMINGTON, NM 87499

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Address

JICARILLA 150

1E

F 01-26N-05W

RIO ARRIBA

Lease

Well No

Unit Ltr - Sec - Twp - Rge

County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 4538 Property Code 6344 API NO. 30-039-23519 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	BLANCO MESAVERDE - 72319	BS MESA GALLUP - 72920	BASIN DAKOTA - 71599
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) 544 psi (see attachment) b. (Original) 1151 psi (see attachment)	a. (Current) 772 psi (see attachment) b. (Original) 1630 psi (see attachment)	a. (Current) 856 psi (see attachment) b. (Original) 1324 psi (see attachment)
6. Oil Gravity (EAPI) or Gas BTU Content	BTU 1192	BTU 1253	BTU 1188
7. Producing or Shut-In?	SHUT-IN	SHUT-IN	SHUT-IN
Production Marginal? (yes or no)	NO	YES	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 * 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? ☒ 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

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- * 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-10
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 30-039-23519	Pool Code 71599 72319/72920/	Pool Name Wildcat Chacra Blanco Mesaverde/B. S. Mesa Gallup/ Basin Dakota
Property Code 16344	Property Name Jicarilla 150	Well Number 1E
OGRID No. 14538	Operator Name Burlington Resources Oil & Gas Company	Elevation 7285' GR

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	1	26N	5W		1656	North	1979	West	RA

Bottom Hole Location If Different From Surface

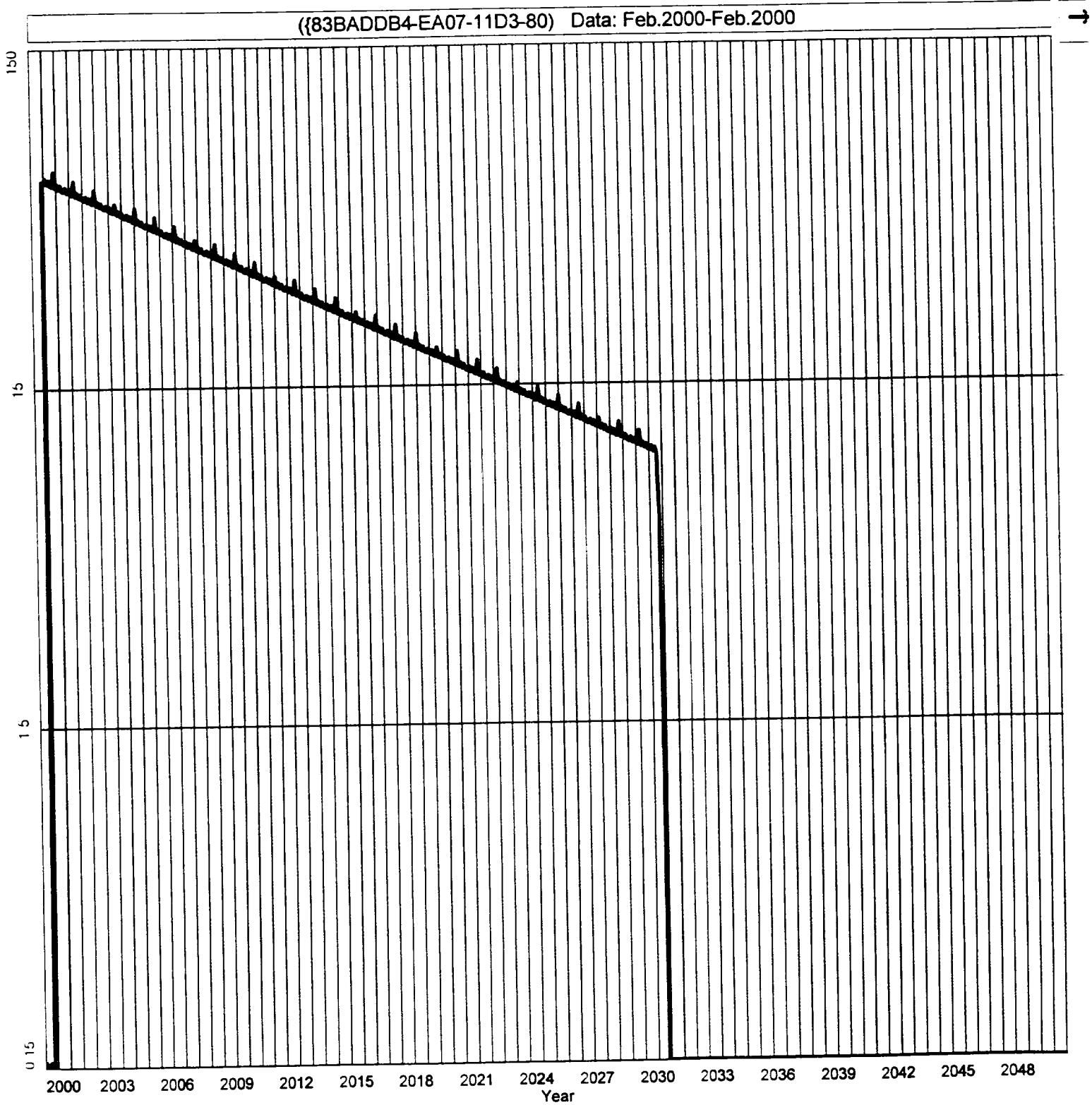
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres MV-W/319.88	Joint or Infill Cha	Consolidation Code -159.88	Order No.
Gal - 160	DK-W/319.88		

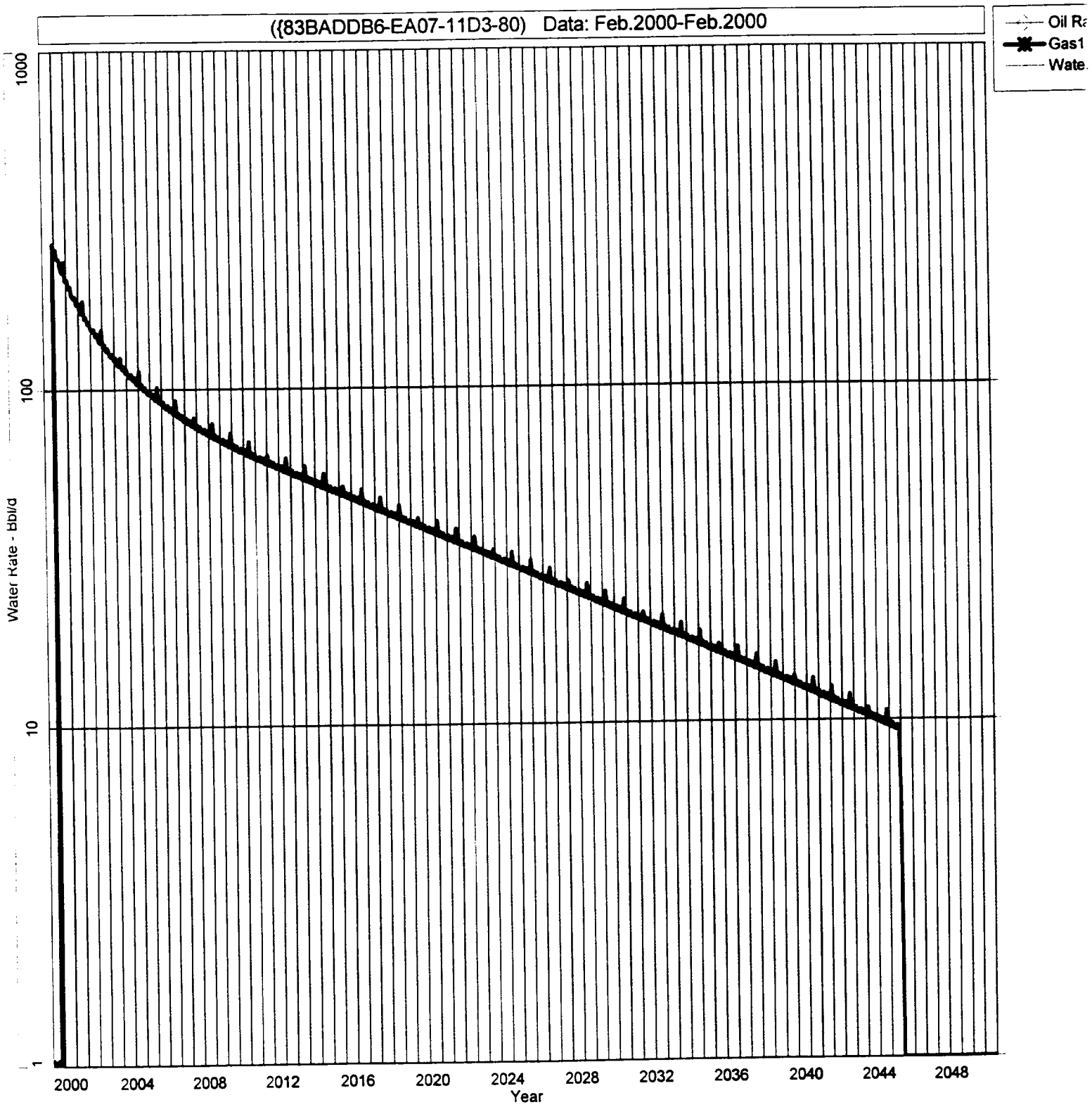
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16	Original plat from Michael Daly 9-9-83	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
19-19		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 Surveyer: Certificate Number

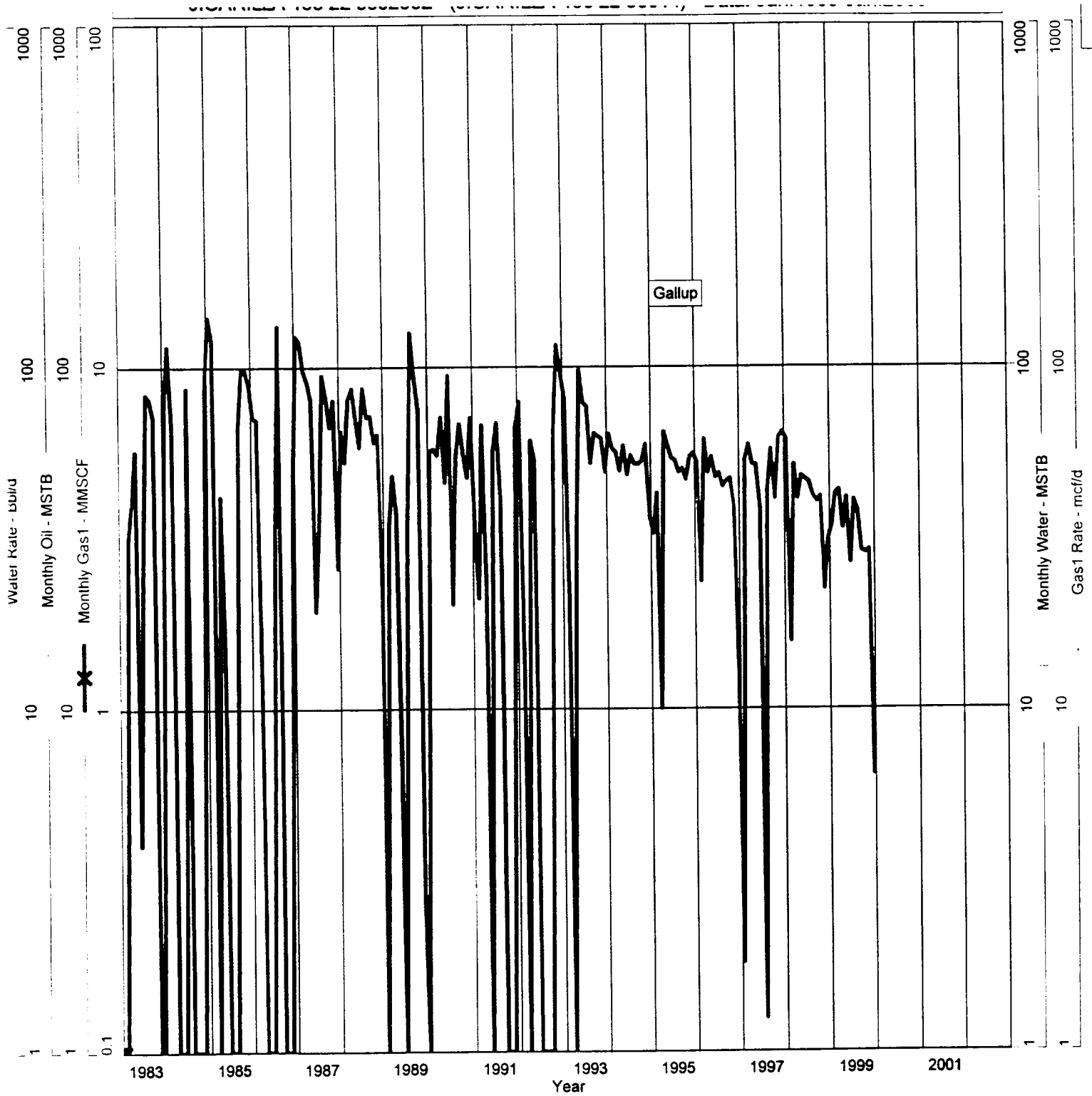
Jicarilla 150 #1E
Expected Chacra Production



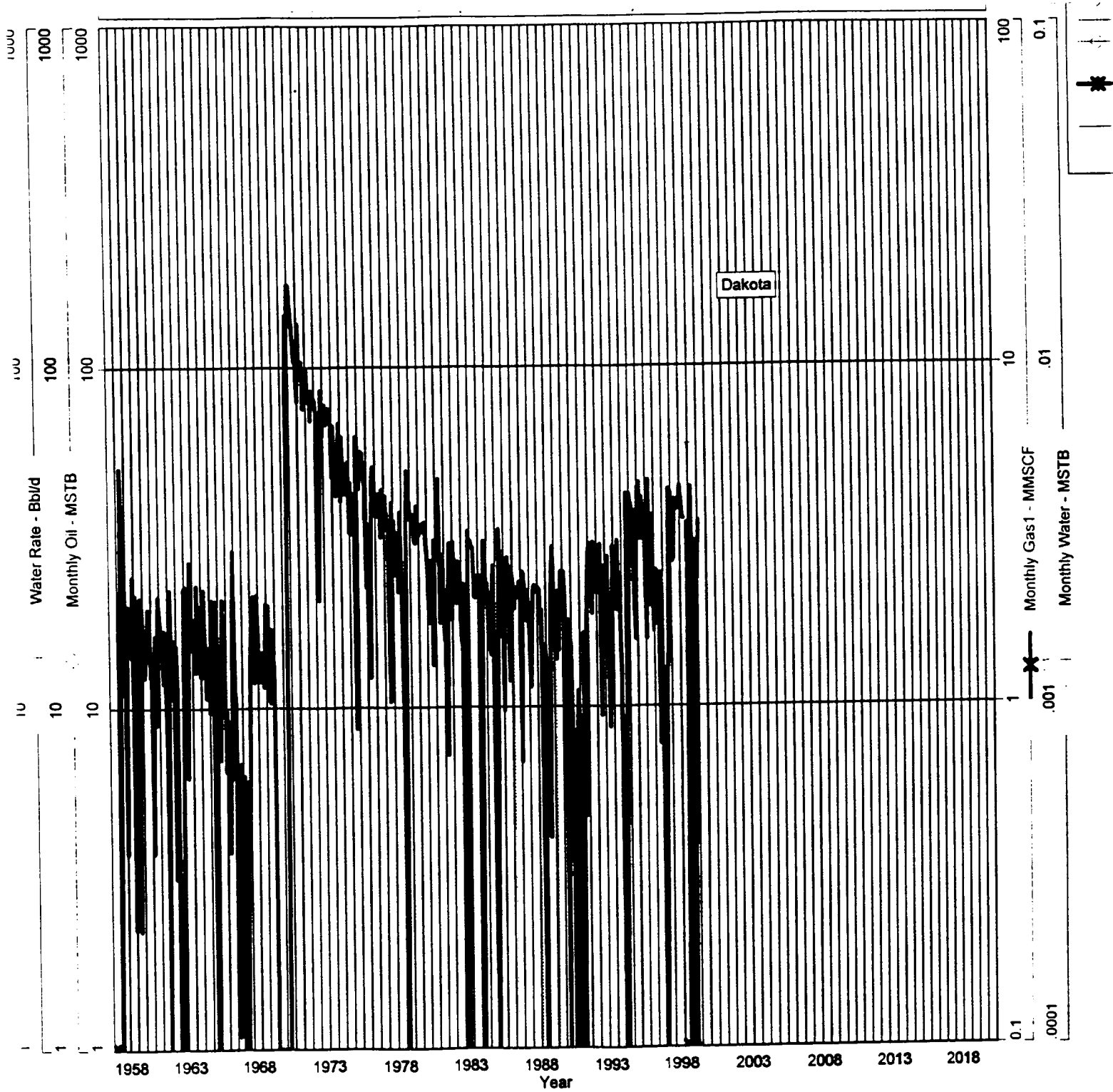
Jicarilla 150 #1E
Expected Mesaverde Production



Jicarilla 150 #1E
Actual Gallup Production



Jicarilla 150 #1E
Actual Dakota Production



Jicarilla 150 #1E
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 #1E
Bottom Hole Pressures
Flowing and Static BHP
Cullender and Smith Method
Version 1.0 3/13/94

Gallup		Dakota	
<u>GP-Current</u>		<u>DK-Current</u>	
GAS GRAVITY	0.723	GAS GRAVITY	0.687
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.36	%N2	0.61
%CO2	0.73	%CO2	0.89
%H2S	0	%H2S	0
DIAMETER (IN)	2.375	DIAMETER (IN)	2.375
DEPTH (FT)	7715	DEPTH (FT)	8332
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)	633	SURFACE PRESSURE (PSIA)	698
BOTTOMHOLE PRESSURE (PSIA)	783.2	BOTTOMHOLE PRESSURE (PSIA)	855.5
<u>GP-Original</u>		<u>DK-Original</u>	
GAS GRAVITY	0.723	GAS GRAVITY	0.687
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.36	%N2	0.61
%CO2	0.73	%CO2	0.89
%H2S	0	%H2S	0
DIAMETER (IN)	2.375	DIAMETER (IN)	2.375
DEPTH (FT)	7715	DEPTH (FT)	8332
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)	1309	SURFACE PRESSURE (PSIA)	1069
BOTTOMHOLE PRESSURE (PSIA)	1667.2	BOTTOMHOLE PRESSURE (PSIA)	1324.1

Jicarilla 150 #1E

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 #1E

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 #1E

Gallup Offset

	<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 #1E

Existing Dakota

	<u>Date</u>	<u>Pressure</u>
Jicarilla 150 1E	1985- 10- 15	1069
Jicarilla 150 1E	1986- 04- 23	962
Jicarilla 150 1E	1987- 10- 21	817
Jicarilla 150 1E	1988- 01- 13	817
Jicarilla 150 1E	1990- 12- 5	698

26N-5W-01F

