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**

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 — Operator
PO BOX 4289, FARMINGTON, NM 87499 — Address

JICARILLA 150 — Lease
1E — Well No.
F 01-26N-05W — Unit Ltr. - Sec - Twp - Rge
RIO ARRIBA — 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 | BLANCO MESAVERDE – 72319 | 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<br>Oil Zones - Artificial Lift: Estimated Current<br>Gas & Oil - Flowing: Measured Current<br>All Gas Zones: Estimated Or Measured Original | a. (Current) 544 psi (see attachment)<br>b. (Original) 1151 psi (see attachment) | a. (Current) 772 psi (see attachment)<br>b. (Original) 1630 psi (see attachment) | a. (Current) 856 psi (see attachment)<br>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)<br>* If Shut-In, give date and oil/gas/ water rates of last production<br>Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data<br>* If Producing, give date andoil/gas/ water rates of recent test (within 60 days) | NO<br>Date: N/A<br>Rates:<br>Date: N/A<br>Rates: | YES<br>Date: N/A<br>Rates:<br>Date: N/A<br>Rates: | YES<br>Date: N/A<br>Rates:<br>Date: N/A<br>Rates: |
| 8. Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%) | Oil: % Gas: %<br>WILL BE SUPPLIED UPON COMPLETION | Oil: % Gas: %<br>WILL BE SUPPLIED UPON COMPLETION | Oil: % Gas: %<br>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
If not, have all working, overriding, and royalty interests been notified by certified mail? ___ 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.
* Notification list of working, overriding, and royalty interests for uncommon interest cases.
* 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: 11/15 /99

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 |
|---|---|---|
| 30-039-23519 | 71599<br>72319/72920/ | Basin Dakota<br>Blanco Mesaverde/B S Mesa Gallup/ |

| ⁴ Property Code | ⁵ Property Name | ⁶ Well Number |
|---|---|---|
| 16344 | Jicarilla 150 | 1E |

| ⁷ OGRID No. | ⁸ Operator Name | ⁹ Elevation |
|---|---|---|
| 14538 | Burlington Resources Oil & Gas Company | 7285' GR |

## ¹⁰ Surface Location

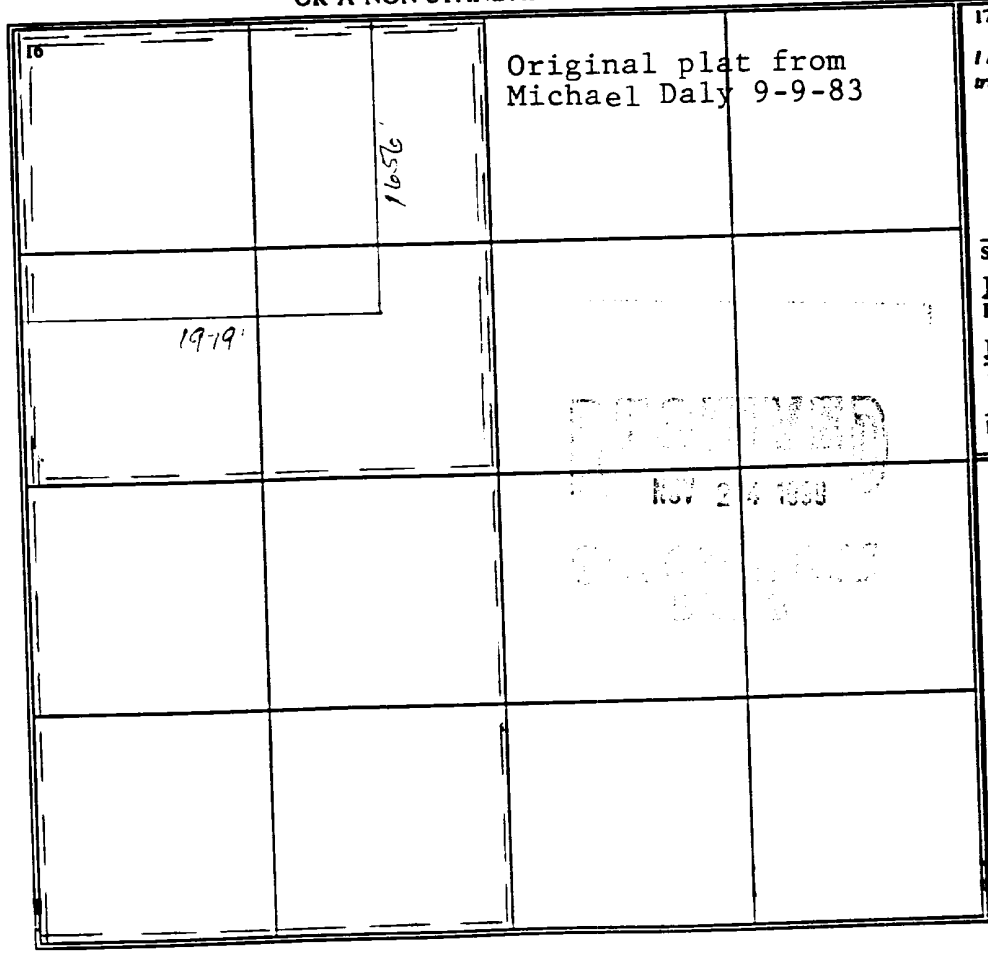
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---|---|---|---|---|---|---|---|---|---|
| F | 1 | 26N | 5W | | 1656 | North | 1979 | West | RA |

## 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 | ¹³ Joint or Infill | ¹⁴ Consolidation Code | ¹⁵ Order No. |
|---|---|---|---|
| MV-W/319.88<br>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




## 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

## 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

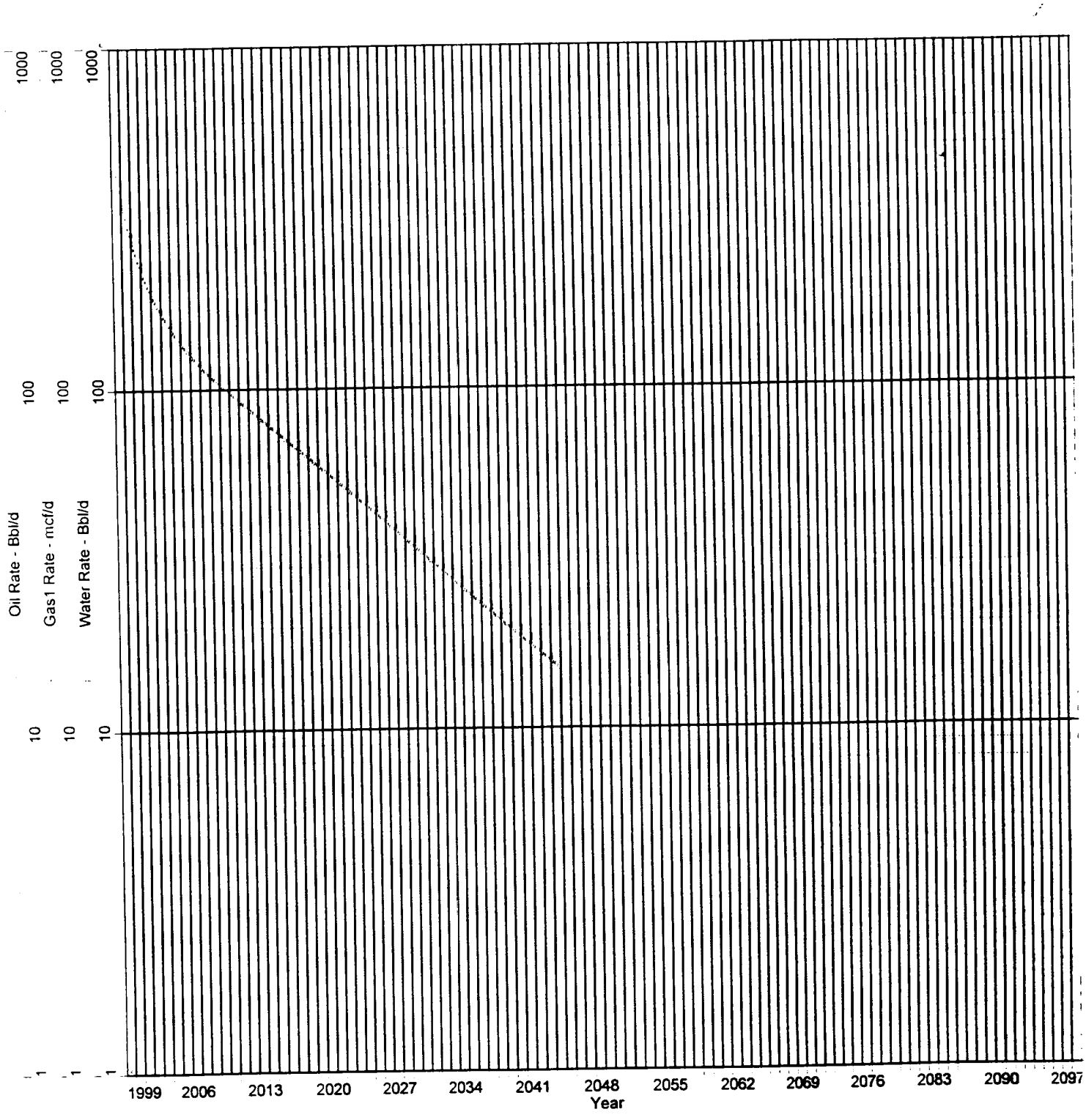
Signature and Seal of Professional Surveyer:

Certificate Number

Jicarilla 150 #1E

Expected Production

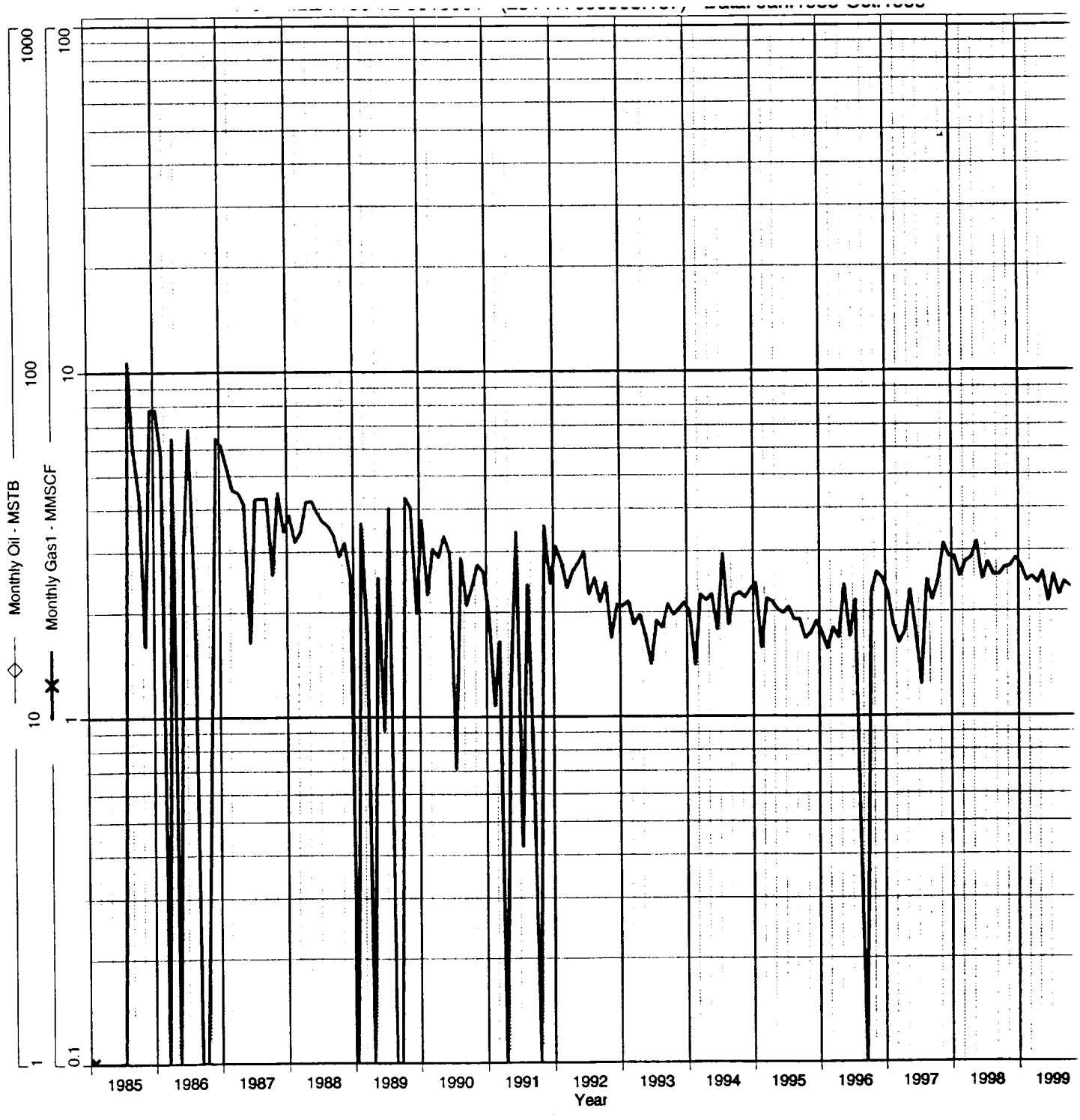
Mesaverde Formation



Jicarilla 150 #1E

Actual Production

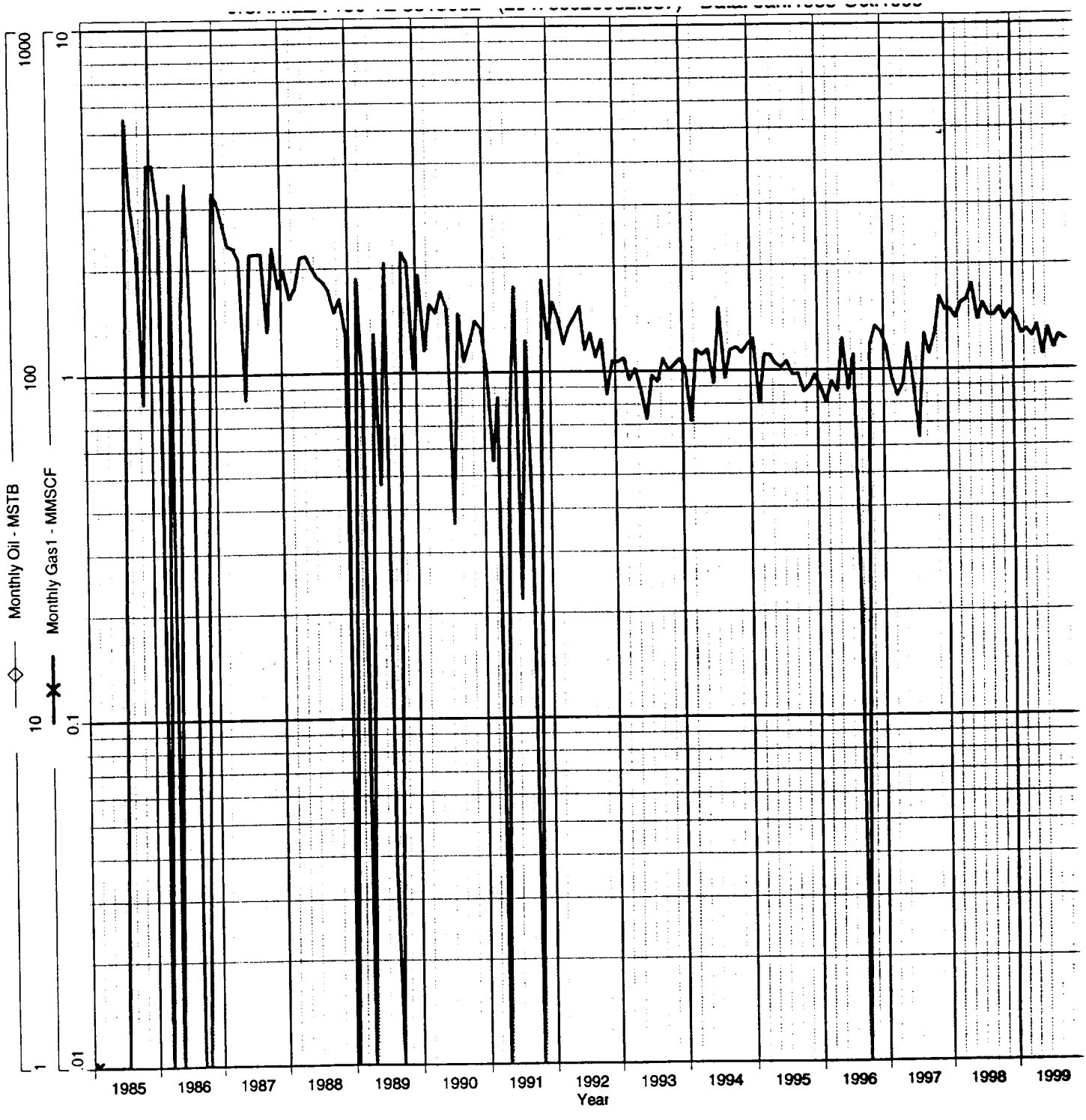
Dakota Formation



Jicarilla 150 #1E

Actual Production

Gallup Formation



# Jicarilla 150 #1E

Bottom Hole Pressures

Flowing and Static BHP

Cullender and Smith Method

Version 1.0 3/13/94

## Mesaverde

### MV-Current

| | |
|---|---|
| GAS GRAVITY | 0.688 |
| COND. OR MISC. (C/M) | C |
| %N2 | 0.47 |
| %CO2 | 0.9 |
| %H2S | 0 |
| DIAMETER (IN) | 1.5 |
| DEPTH (FT) | 5632 |
| SURFACE TEMPERATURE (DEG F) | 60 |
| BOTTOMHOLE TEMPERATURE (DEG F) | 137 |
| FLOWRATE (MCFPD) | 0 |
| SURFACE PRESSURE (PSIA) | 472 |
| BOTTOMHOLE PRESSURE (PSIA) | 543.8 |

### MV-Original

| | |
|---|---|
| GAS GRAVITY | 0.688 |
| COND. OR MISC. (C/M) | C |
| %N2 | 0.47 |
| %CO2 | 0.9 |
| %H2S | 0 |
| DIAMETER (IN) | 1.5 |
| DEPTH (FT) | 5632 |
| SURFACE TEMPERATURE (DEG F) | 60 |
| BOTTOMHOLE TEMPERATURE (DEG F) | 137 |
| FLOWRATE (MCFPD) | 0 |
| SURFACE PRESSURE (PSIA) | 986 |
| BOTTOMHOLE PRESSURE (PSIA) | 1151.0 |

## Dakota

### DK-Current

| | |
|---|---|
| GAS GRAVITY | 0.687 |
| COND. OR MISC. (C/M) | C |
| %N2 | 0.61 |
| %CO2 | 0.89 |
| %H2S | 0 |
| DIAMETER (IN) | 2.375 |
| DEPTH (FT) | 8332 |
| SURFACE TEMPERATURE (DEG F) | 60 |
| BOTTOMHOLE TEMPERATURE (DEG F) | 198 |
| FLOWRATE (MCFPD) | 0 |
| SURFACE PRESSURE (PSIA) | 698 |
| BOTTOMHOLE PRESSURE (PSIA) | 855.5 |

### DK-Original

| | |
|---|---|
| GAS GRAVITY | 0.687 |
| COND. OR MISC. (C/M) | C |
| %N2 | 0.61 |
| %CO2 | 0.89 |
| %H2S | 0 |
| DIAMETER (IN) | 2.375 |
| DEPTH (FT) | 8332 |
| SURFACE TEMPERATURE (DEG F) | 60 |
| BOTTOMHOLE TEMPERATURE (DEG F) | 198 |
| FLOWRATE (MCFPD) | 0 |
| SURFACE PRESSURE (PSIA) | 1069 |
| BOTTOMHOLE PRESSURE (PSIA) | 1324.1 |

# Jicarilla 150 #1E

Bottom Hole Pressures

Flowing and Static BHP

Cullender and Smith Method

Version 1.0 3/13/94

## Gallup

### GP-Current

| | |
|---|---|
| GAS GRAVITY | 0.723 |
| COND. OR MISC. (C/M) | C |
| %N2 | 0.36 |
| %CO2 | 0.73 |
| %H2S | 0 |
| DIAMETER (IN) | 2.375 |
| DEPTH (FT) | 7715 |
| SURFACE TEMPERATURE (DEG F) | 60 |
| BOTTOMHOLE TEMPERATURE (DEG F) | 198 |
| FLOWRATE (MCFPD) | 0 |
| SURFACE PRESSURE (PSIA) | 633 |
| BOTTOMHOLE PRESSURE (PSIA) | 771.7 |

### GP-Original

| | |
|---|---|
| GAS GRAVITY | 0.723 |
| COND. OR MISC. (C/M) | C |
| %N2 | 0.36 |
| %CO2 | 0.73 |
| %H2S | 0 |
| DIAMETER (IN) | 2.375 |
| DEPTH (FT) | 7715 |
| SURFACE TEMPERATURE (DEG F) | 60 |
| BOTTOMHOLE TEMPERATURE (DEG F) | 198 |
| FLOWRATE (MCFPD) | 0 |
| SURFACE PRESSURE (PSIA) | 1309 |
| BOTTOMHOLE PRESSURE (PSIA) | 1629.9 |

## Jicarilla 150 #1E

Mesaverde Offset

| | Date | Pressure |
|---|---|---|
| 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

| | Date | Pressure |
|---|---|---|
| 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

| | Date | Pressure |
|---|---|---|
| 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 |

Jicarilla 150 #1E

Dakota / Gallup / Mesaverde

26N – 5W - 01