DHC-1185

| DATE 5/15/03 | SUSPENSE NA | ENGINEER DRC | LOGGED IN KV | TYPE DHC | APP# pKRV0313634274 |
|---|---|---|---|---|---|

ABOVE THIS LINE FOR DIVISION USE ONLY

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

RECEIVED
MAY 15 2003
OIL CONSERVATION DIVISION

# ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST 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]***

[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

[D] Other: Specify _____

[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] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

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

| Peggy Cole | Peggy Cole | Regulatory Supv. | 5-13-03 |
|---|---|---|---|
| Print or Type Name | Signature | Title | Date |

pcole@br-inc.com
e-mail Address

District I
1625 N. French Drive, Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

**Oil Conservation Division**
1220 South St. Francis Dr.
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
_Y_ Yes ___No

**BURLINGTON RESOURCES OIL & GAS COMPANY** **PO BOX 4289, FARMINGTON, NM 87499**

Operator | Address

| Lease | Well No. | Unit Letter-Section-Township-Range | County |
|---|---|---|---|
| **Navajo Indian B** | **#5** | **L-30-27N-8W** | **San Juan** |

OGRID No. 14538 Property Code 7350 API No. 30-045-06223 Lease Type: X Federal ___State ___Fee

| DATA ELEMENT | UPPER ZONE | INTERMEDIATE ZONE | LOWER ZONE |
|---|---|---|---|
| Pool Name | OTERO CHACRA | BLANCO MESAVERDE | BASIN DAKOTA |
| Pool Code | 82329 | 72319 | 71599 |
| Top and Bottom of Pay Section (Perforated or Open-Hole Interval) | WILL BE SUPPLIED UPON COMPLETION | 4289'-4426' | 6378'-6640' |
| Method of Production (Flowing or Artificial Lift) | NEW ZONE | SHUT-IN | SHUT-IN |
| 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) | Original 1028 psi From Brookhaven Com #7A offset (see attachment) | Original 1223 psi Current 264 psi | Original 1296 psi Current 519 psi |
| Oil Gravity or Gas BTU (Degree API or Gas BTU) | BTU 1309 | BTU 1296 | BTU 1296 |
| Producing, Shut-In or New Zone | New Zone | Shut-In | 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: N/A<br>Rates: See Attachment | Date:<br>Rates: See Attachment | Date:<br>Rates: See Attachment |
| Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.) | WILL BE SUPPLIED UPON COMPLETION | WILL BE SUPPLIED UPON COMPLETION | 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.
- 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 L. Tom Loveland TITLE Reservoir Engineering DATE 5/7/03

TYPE OR PRINT NAME L. Tom Loveland TELEPHONE NO. ( 505 ) 326-9700

District I
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State of New Mexico
Energy, Minerals and Natural Resources

Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form C-102

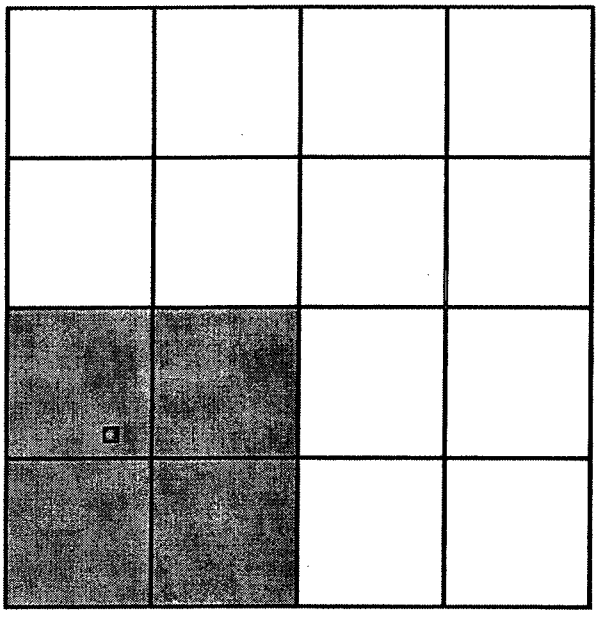
# WELL LOCATION AND ACREAGE DEDICATION PLAT

| API Number | Pool Name | Pool Code |
|---|---|---|
| 30-045-06223 | OTERO CHACRA (GAS) | 82329 |
| **Property Code** | **Property Name** | **Well No.** |
| 7350 | NAVAJO INDIAN B | 005 |
| **OGRID No.** | **Operator Name** | **Elevation** |
| 14538 | Burlington Resources Oil and Gas Company | 6080 |

## Surface And Bottom Hole Location

| UL or Lot | Section | Township | Range | Lot Idn | Feet From | N/S Line | Feet From | E/W Line | County |
|---|---|---|---|---|---|---|---|---|---|
| L | 30 | 27N | 08W | | 1520 | S | 960 | W | San Juan |

| Dedicated Acres | Joint or Infill | Consolidation Code | Order No. |
|---|---|---|---|
| 160.2 | | | |



## OPERATOR CERTIFICATION

*I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.*

Signed By: Peggy Cole
Title: Regulatory Supervisor
Date: 12-11-02

## 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.*

Signed By: James P Leese
Date of Survey: 5/20/1964
Certificate Number: 1463

District I
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Energy, Minerals and Natural Resources

Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form C-102

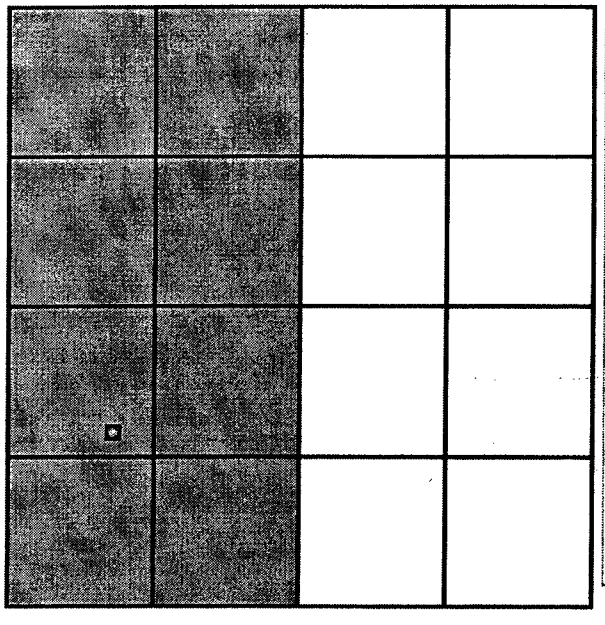
# WELL LOCATION AND ACREAGE DEDICATION PLAT

| API Number | Pool Name | Pool Code |
|---|---|---|
| 30-045-06223 | BLANCO-MESAVERDE (PRORATED GAS) | 72319 |
| **Property Code** | **Property Name** | **Well No.** |
| 7350 | NAVAJO INDIAN B | 005 |
| **OGRID No.** | **Operator Name** | **Elevation** |
| 14538 | Burlington Resources Oil and Gas Company | 6080 |

## Surface And Bottom Hole Location

| UL or Lot | Section | Township | Range | Lot Idn | Feet From | N/S Line | Feet From | E/W Line | County |
|---|---|---|---|---|---|---|---|---|---|
| L | 30 | 27N | 08W | | 1520 | S | 960 | W | San Juan |

| Dedicated Acres | Joint or Infill | Consolidation Code | Order No. |
|---|---|---|---|
| 320.8 | | | |



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Date: 12-11-02

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State of New Mexico
Energy, Minerals and Natural Resources

Form C-102

Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

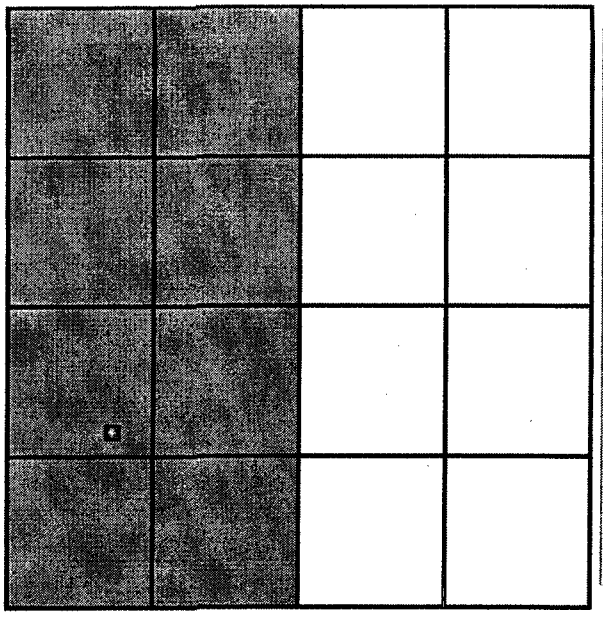
## WELL LOCATION AND ACREAGE DEDICATION PLAT

| API Number | Pool Name | Pool Code |
|---|---|---|
| 30-045-06223 | BASIN DAKOTA (PRORATED GAS) | 71599 |
| **Property Code** | **Property Name** | **Well No.** |
| 7350 | NAVAJO INDIAN B | 005 |
| **OGRID No.** | **Operator Name** | **Elevation** |
| 14538 | Burlington Resources Oil and Gas Company | 6080 |

### Surface And Bottom Hole Location

| UL or Lot | Section | Township | Range | Lot Idn | Feet From | N/S Line | Feet From | E/W Line | County |
|---|---|---|---|---|---|---|---|---|---|
| L | 30 | 27N | 08W | | 1520 | S | 960 | W | San Juan |

| Dedicated Acres | Joint or Infill | Consolidation Code | Order No. |
|---|---|---|---|
| 320.8 | | | |



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Signed By: Peggy Cole
Title: Regulatory Supervisor
Date: 12-11-02

### SURVEYOR CERTIFICATION

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Signed By: James P Leese
Date of Survey: 5/20/1964
Certificate Number: 1463

# Navajo Indian B #5
# Bottom Hole Pressures
# Flowing and Static BHP
# Cullender and Smith Method

Version 1.0 1/14/98

## Chacra

### CH-Current

| | |
|---|---|
| GAS GRAVITY | 0 |
| COND. OR MISC. (C/M) | C |
| %N2 | 0 |
| %CO2 | 0 |
| %H2S | 0 |
| DIAMETER (IN) | 0 |
| DEPTH (FT) | 0 |
| SURFACE TEMPERATURE (DEG F) | 60 |
| BOTTOMHOLE TEMPERATURE (DEG F) | 0 |
| FLOWRATE (MCFPD) | 0 |
| SURFACE PRESSURE (PSIA) | 0 |
| BOTTOMHOLE PRESSURE (PSIA) | #DIV/0! |

### CH-Original

| | |
|---|---|
| GAS GRAVITY | 0.757 |
| COND. OR MISC. (C/M) | C |
| %N2 | 0.0066 |
| %CO2 | 0.0043 |
| %H2S | 0 |
| DIAMETER (IN) | 5.5 |
| DEPTH (FT) | 3164 |
| SURFACE TEMPERATURE (DEG F) | 60 |
| BOTTOMHOLE TEMPERATURE (DEG F) | 95.5 |
| FLOWRATE (MCFPD) | 0 |
| SURFACE PRESSURE (PSIA) | 925 |
| BOTTOMHOLE PRESSURE (PSIA) | 1027.5 |

## Mesaverde

### MV-Current

| | |
|---|---|
| GAS GRAVITY | 0.76 |
| COND. OR MISC. (C/M) | C |
| %N2 | 0.00 |
| %CO2 | 0.0123 |
| %H2S | 0 |
| DIAMETER (IN) | 5.5 |
| DEPTH (FT) | 4358 |
| SURFACE TEMPERATURE (DEG F) | 60 |
| BOTTOMHOLE TEMPERATURE (DEG F) | 113.7 |
| FLOWRATE (MCFPD) | 0 |
| SURFACE PRESSURE (PSIA) | 234 |
| BOTTOMHOLE PRESSURE (PSIA) | 263.7 |

### MV-Original

| | |
|---|---|
| GAS GRAVITY | 0.741 |
| COND. OR MISC. (C/M) | C |
| %N2 | 1.03 |
| %CO2 | 0.61 |
| %H2S | 0 |
| DIAMETER (IN) | 5.5 |
| DEPTH (FT) | 4358 |
| SURFACE TEMPERATURE (DEG F) | 60 |
| BOTTOMHOLE TEMPERATURE (DEG F) | 113.7 |
| FLOWRATE (MCFPD) | 0 |
| SURFACE PRESSURE (PSIA) | 1064 |
| BOTTOMHOLE PRESSURE (PSIA) | 1223.1 |

# Navajo Indian B #5
# Bottom Hole Pressures
# Flowing and Static BHP
## Cullender and Smith Method
Version 1.0 1/14/98

## Dakota

### DK-Current

| | |
|---|---|
| GAS GRAVITY | 0.76 |
| COND. OR MISC. (C/M) | C |
| %N2 | 0.0042 |
| %CO2 | 0.0123 |
| %H2S | 0 |
| DIAMETER (IN) | 1.5 |
| DEPTH (FT) | 6509 |
| SURFACE TEMPERATURE (DEG F) | 60 |
| BOTTOMHOLE TEMPERATURE (DEG F) | 143.9 |
| FLOWRATE (MCFPD) | 0 |
| SURFACE PRESSURE (PSIA) | 433 |
| BOTTOMHOLE PRESSURE (PSIA) | 519.0 |

### Current

| | |
|---|---|
| GAS GRAVITY | 0 |
| COND. OR MISC. (C/M) | C |
| %N2 | 0.00 |
| %CO2 | 0 |
| %H2S | 0 |
| DIAMETER (IN) | 0 |
| DEPTH (FT) | 0 |
| SURFACE TEMPERATURE (DEG F) | 60 |
| BOTTOMHOLE TEMPERATURE (DEG F) | 0 |
| FLOWRATE (MCFPD) | 0 |
| SURFACE PRESSURE (PSIA) | 0 |
| BOTTOMHOLE PRESSURE (PSIA) | #DIV/0! |

### DK-Original

| | |
|---|---|
| GAS GRAVITY | 0.721 |
| COND. OR MISC. (C/M) | C |
| %N2 | 0.67 |
| %CO2 | 1.21 |
| %H2S | 0 |
| DIAMETER (IN) | 1.5 |
| DEPTH (FT) | 6509 |
| SURFACE TEMPERATURE (DEG F) | 60 |
| BOTTOMHOLE TEMPERATURE (DEG F) | 143.9 |
| FLOWRATE (MCFPD) | 0 |
| SURFACE PRESSURE (PSIA) | 1070 |
| BOTTOMHOLE PRESSURE (PSIA) | 1295.8 |

### Original

| | |
|---|---|
| GAS GRAVITY | 0 |
| COND. OR MISC. (C/M) | C |
| %N2 | 0.00 |
| %CO2 | 0 |
| %H2S | 0 |
| DIAMETER (IN) | 0 |
| DEPTH (FT) | 0 |
| SURFACE TEMPERATURE (DEG F) | 60 |
| BOTTOMHOLE TEMPERATURE (DEG F) | 0 |
| FLOWRATE (MCFPD) | 0 |
| SURFACE PRESSURE (PSIA) | 0 |
| BOTTOMHOLE PRESSURE (PSIA) | #DIV/0! |

# Navajo Indian B #5 - SICP/Z Data

Zone: Dakota

| Date | SICP (psig) | Chromatograph Used | Z-Factor | SICP/Z (psig) | Cum Qg (MMCF) | Slope | Y Intercept |
|---|---|---|---|---|---|---|---|
| 6/4/1964 | 1070 | 10/1/2002 | 0.7936 | 1348 | 0 | N/A | 1348 |
| 6/4/1970 | 851 | 10/1/2002 | 0.8855 | 961 | 36.719 | -10.54624 | 1348 |
| 7/9/1971 | 822 | 10/1/2002 | 0.8891 | 925 | 111.558 | -3.798525 | 1348 |
| 7/3/1972 | 754 | 10/1/2002 | 0.8976 | 840 | 177.141 | -2.869288 | 1348 |
| 4/17/1973 | 663 | 10/1/2002 | 0.9092 | 729 | 225.203 | -2.748959 | 1348 |
| 4/22/1975 | 558 | 10/1/2002 | 0.923 | 605 | 336.196 | -2.212209 | 1348 |
| 6/12/1977 | 942 | 10/1/2002 | 0.8746 | 1077 | 395.452 | -0.685854 | 1348 |
| 11/21/1983 | 470 | 10/1/2002 | 0.9347 | 503 | 535.722 | -1.578153 | 1348 |
| 11/21/1985 | 412 | 10/2/2002 | 0.9426 | 437 | 572.912 | -1.590467 | 1348 |
| 3/31/1988 | 572 | 10/2/2002 | 0.9211 | 621 | 599.303 | -1.213559 | 1348 |
| ??? | 62 | N/A | 1 | 62 | 1266 | -1.016024 | 1348 |
| | | | | | | ↓ | ↓ |
| 12/31/2002 | ??? | 10/1/2002 | ??? | 456 | 878.238 | -1.016024 | 1348 |

**Z-Factor = 0.95**
**SICP (psig) = 433**

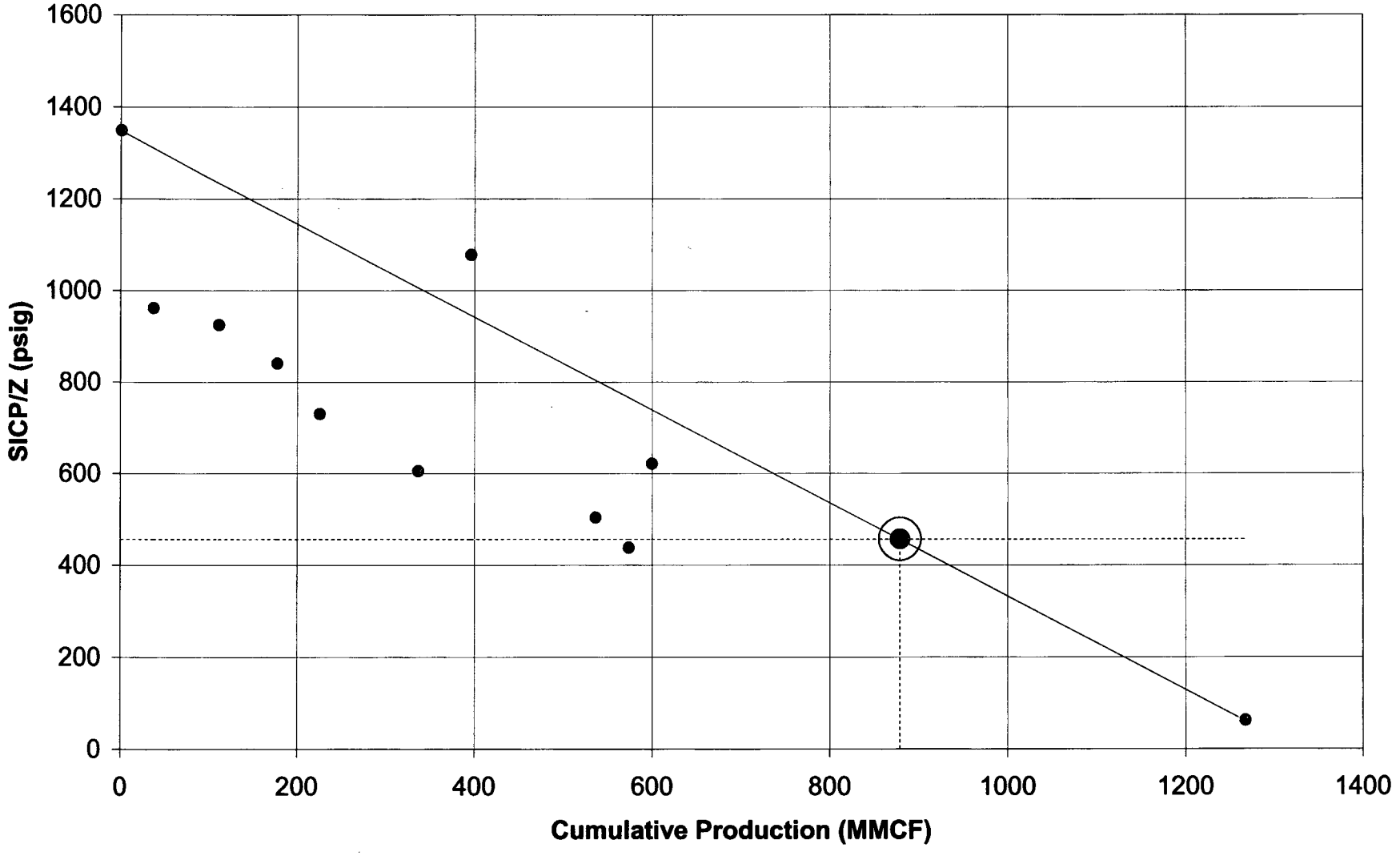
Zone: Mesaverde

| Date | SICP (psig) | Chromatograph Used | Z-Factor | SICP/Z (psig) | Cum Qg (MMCF) | Slope | Y Intercept |
|---|---|---|---|---|---|---|---|
| 6/4/1964 | 1064 | 10/1/2002 | 0.8593 | 1238 | 0 | N/A | 1238 |
| 6/4/1970 | 616 | 10/1/2002 | 0.9153 | 673 | 1216.56 | -0.4646 | 1238 |
| 7/9/1971 | 572 | 10/1/2002 | 0.9211 | 621 | 1300.33 | -0.474665 | 1238 |
| 7/3/1972 | 479 | 10/1/2002 | 0.9335 | 513 | 1381.46 | -0.524875 | 1238 |
| 4/17/1973 | 431 | 10/2/2002 | 0.94 | 459 | 1441.33 | -0.540963 | 1238 |
| 7/17/1974 | 417 | 10/3/2002 | 0.9419 | 443 | 1530.07 | -0.519908 | 1238 |
| 5/18/1976 | 407 | 10/4/2002 | 0.9433 | 431 | 1633.9 | -0.493759 | 1238 |
| 4/4/1978 | 375 | 10/4/2002 | 0.9477 | 396 | 1722.93 | -0.489006 | 1238 |
| 7/18/1980 | 375 | 10/4/2002 | 0.9477 | 396 | 1794.7 | -0.46945 | 1238 |
| 5/21/1982 | 407 | 10/4/2002 | 0.9433 | 431 | 1835.13 | -0.439616 | 1238 |
| 11/5/1984 | 383 | 10/4/2002 | 0.9466 | 405 | 1878.28 | -0.443816 | 1238 |
| 6/23/1989 | 452 | 10/4/2002 | 0.9372 | 482 | 1923.83 | -0.392929 | 1238 |
| 7/30/1991 | 433 | 10/4/2002 | 0.9397 | 461 | 1933.84 | -0.402015 | 1238 |
| ??? | 62 | N/A | 1 | 62 | 2530 | -0.464908 | 1238 |
| | | | | | | ↓ | ↓ |
| 12/31/2002 | ??? | 10/1/2002 | ??? | 242 | 2142.37 | -0.464908 | 1238 |

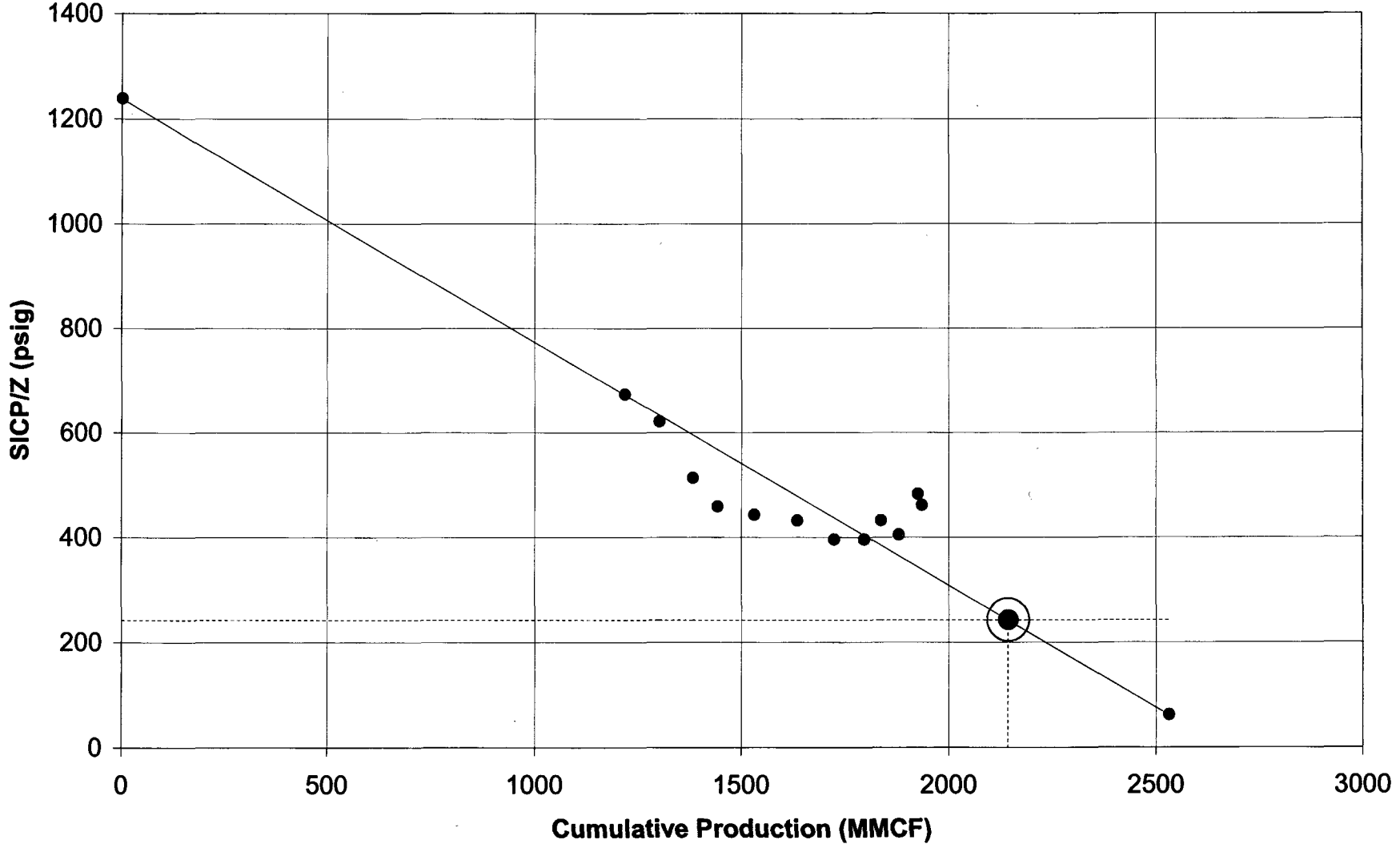
**Z-Factor = 0.967**
**SICP (psig) = 234**

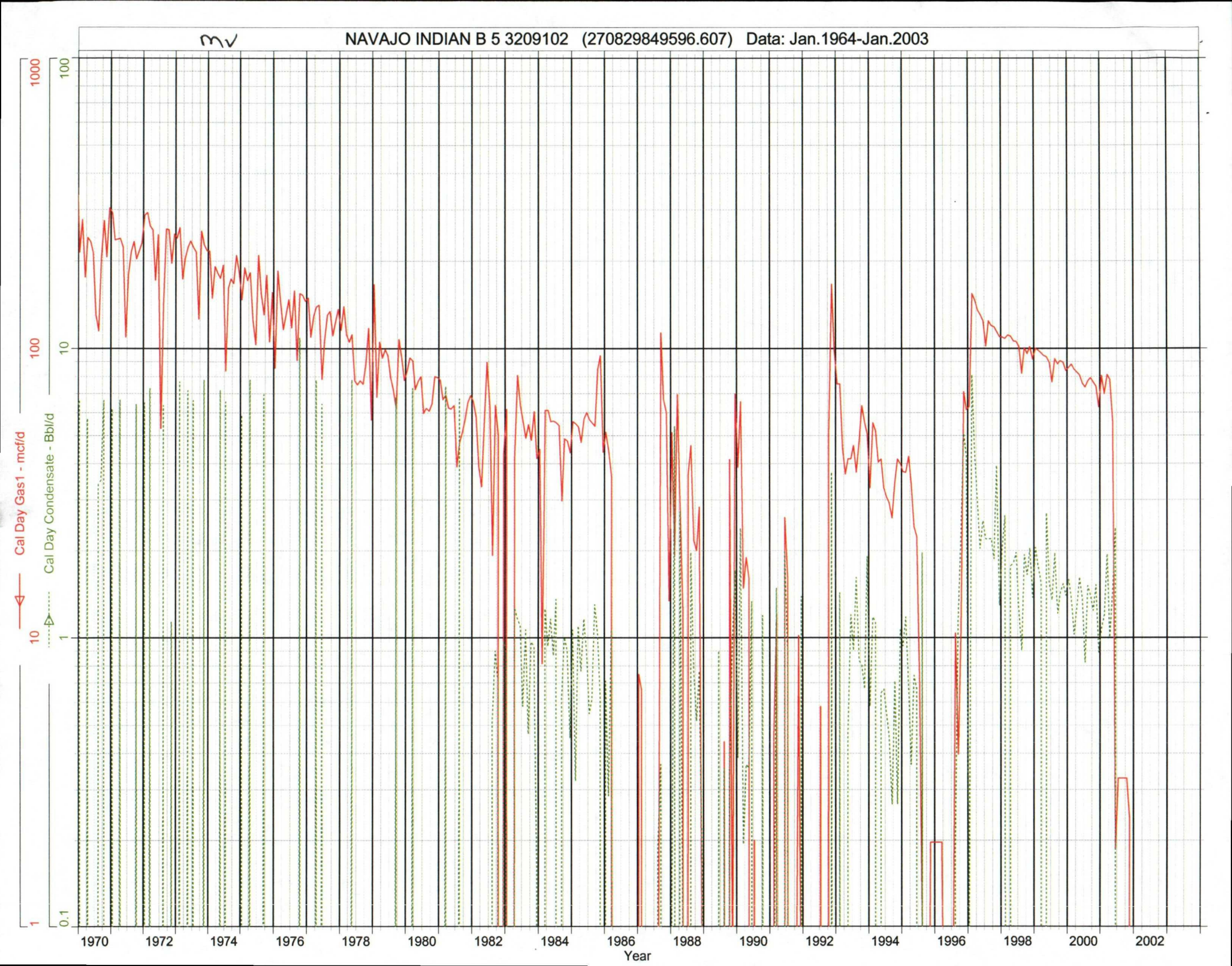
NOTE: THESE ARE ESTIMATES OF THE CURRENT RESERVOIR PRESSURE IN EACH ZONE. IT IS REALIZED THAT THE NEAR-WELLBORE PRESSURES FOR EACH ZONE SHOULD BE SIMILAR, DUE TO THEIR COMMINGLED STATUS.

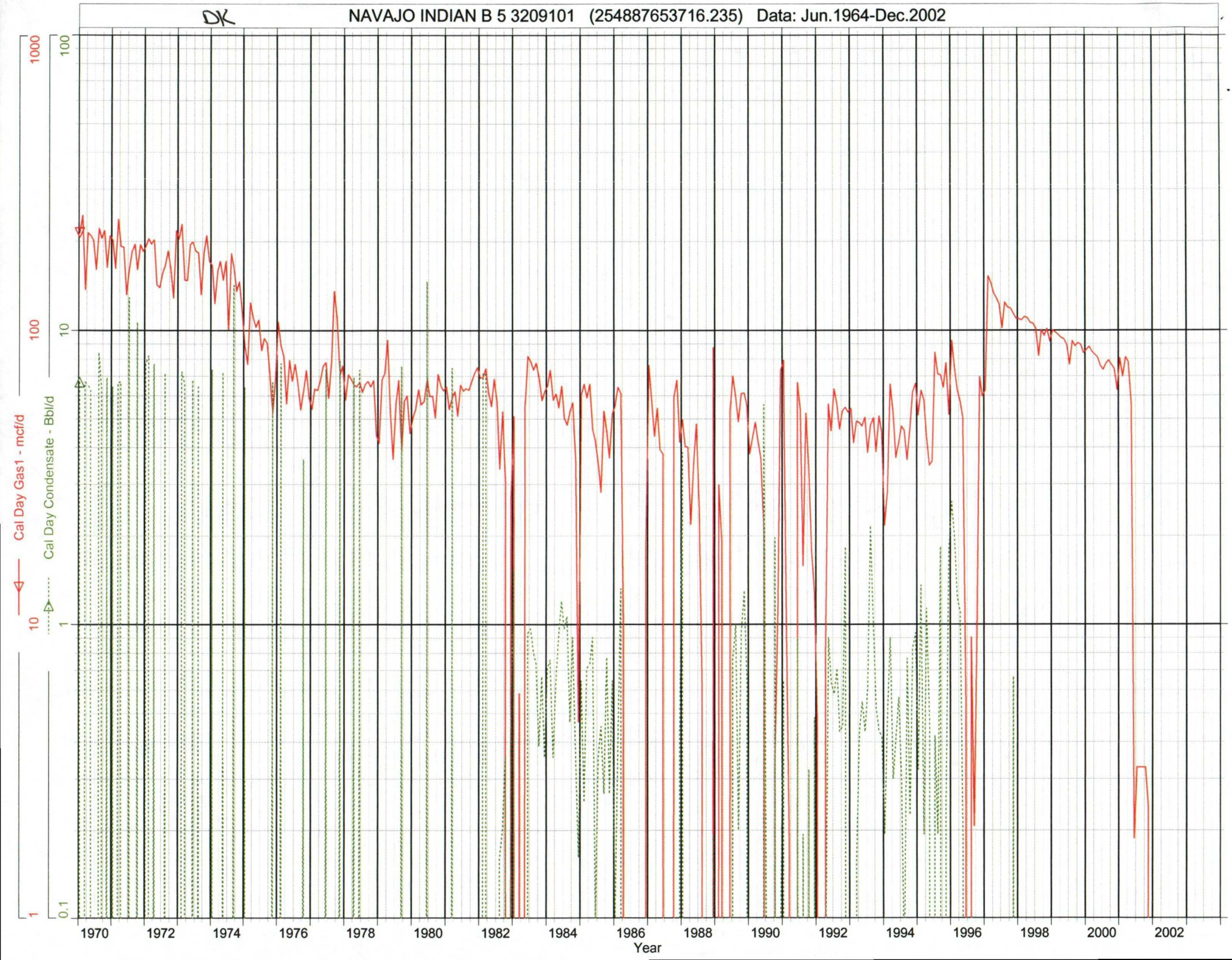
# Navajo Indian B #5 (DK)



# Navajo Indian B #5 (MV)




NAVAJO INDIAN B 5 3209102 (270829849596.607) Data: Jan.1964-Jan.2003
Cal Day Gas1 - mcf/d
Cal Day Condensate - Bbl/d
1000
100
10
1
100
10
1
0.1
1970
1972
1974
1976
1978
1980
1982
1984
1986
1988
1990
1992
1994
1996
1998
2000
2002
Year


DK
NAVAJO INDIAN B 5 3209101 (254887653716.235) Data: Jun.1964-Dec.2002
Cal Day Gas1 - mcf/d
Cal Day Condensate - Bbl/d
1000
100
10
1
100
10
1
0.1
1970
1972
1974
1976
1978
1980
1982
1984
1986
1988
1990
1992
1994
1996
1998
2000
2002
Year

BURLINGTON RESOURCES

*Lewis Implementation Team*

Memorandum

**TO:** **New Mexico Oil Conservation Division**

**FROM:** **Lewis Implementation Team, Burlington Resources**

**DATE:** **December 2, 2002**

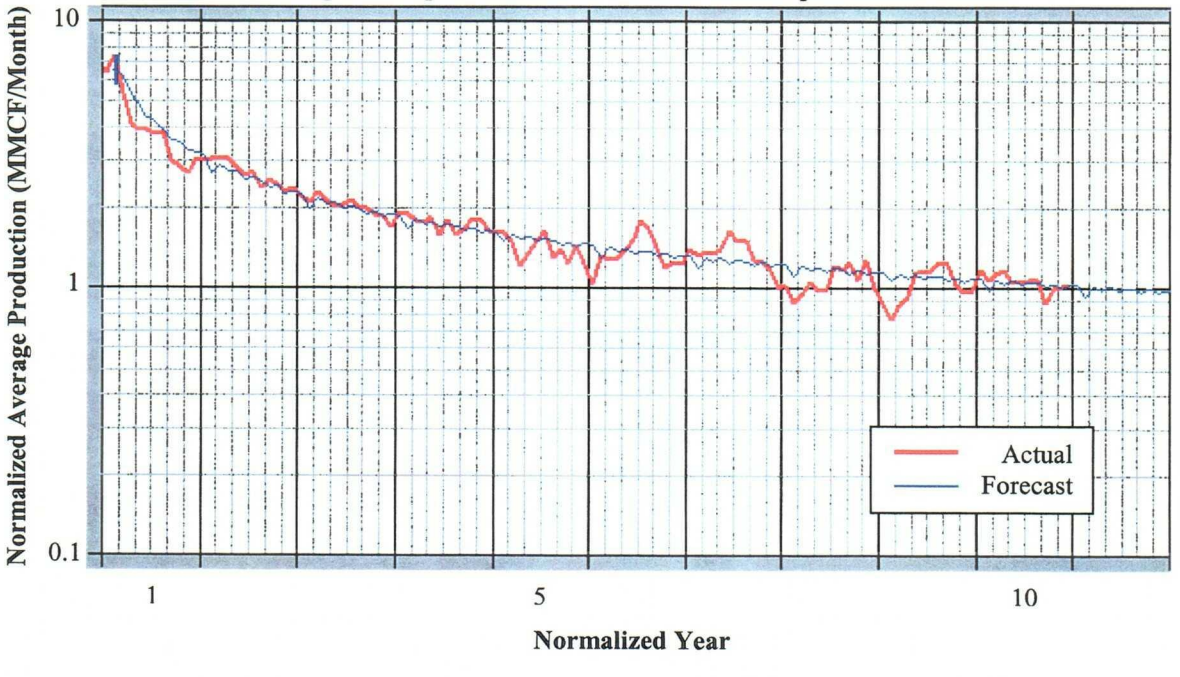
**RE:** **2003 Chacra Recompletion Program Expected Production**

Chacra-only production from 73 wells completed after 1970 was normalized and forecasted to result in the production model presented in Table 1. A graphical representation of this normalized production forecast is shown in the attached Figure 1. These wells are located in or near the Chacra Fairway in T-27-N, R-08-W; T-27-N, R-09-W; T-28-N, R-08-W; T-28-N, R-09-W; T-28-N, R-10-W; T-28-N, R-11-W; T-29-N, R-09-W; T-29-N, R-10-W; and T-29-N, R-11-W. Actual results from the individual payadds will certainly vary, but this production model represents the average results that should be achieved. Further delineation in the area will be made in 2003.

**Table 1: 2003 Chacra production model.**

| Decline Type | Hyp to Exp |
|---|---|
| Initial Incremental Rate (MCF/D) | 260 |
| Initial Decline (%/yr, effective) | 62 |
| Final Decline (%/yr, effective) | 1.6 |
| Final Incremental Rate (MCF/D) | 15 |
| Hyperbolic Exponent, n | 2.0 |
| EUR (MMCF) | 496 |

**Figure 1. Graphical representation of the 2003 Chacra production model.**



## **Navajo Indian B 5** – 2003 Chacra Recompletion

The Mesaverde and Dakota were mechanically commingled in 6/96. Menefee pay was added in 5-6/01, and the new water production overpowered the well. Prior to the Menefee being added, the well was producing approximately 70 MCFD from the Mesaverde and Dakota. Production ceased with the addition of the Menefee. It is proposed to plug the Menefee pay and add the Chacra formation, resulting in regaining Mesaverde and Dakota production.