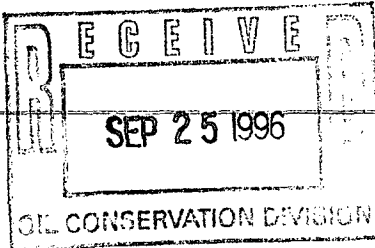


**BURLINGTON  
RESOURCES**

SAN JUAN DIVISION



September 24, 1996

Mr. William LeMay  
New Mexico Oil Conservation Division  
2040 South Pacheco Street  
Santa Fe, New Mexico 87505

Re: Culpepper Martin #13  
990'FSL, 1760'FWL Section 29, T-32-N, R-12-W, San Juan County, NM  
API #30-045-11222

Dear Mr. LeMay:

This is a request for administrative approval for downhole commingling the Blanco Mesa Verde and Basin Dakota pools in the subject well. This is currently a dual Mesa Verde/Dakota well.

To comply with the New Mexico Oil Conservation Division rules, Burlington Resources Oil & Gas Company is submitting the following for your approval of this commingling:

1. Form C107A - Application for Downhole Commingling;
2. C-102 plat for each zone showing its spacing unit and acreage dedication;
3. Production curve for both the Dakota and Mesa Verde for at least one year;
4. Notification list of offset operators - Burlington is the surrounding operator;
5. Shut in wellhead pressure and calculated down hole pressure;
6. Nine-section plats for the Mesa Verde and Dakota.

The ownership for both the Mesa Verde and Dakota are common in this well. No notification to interest owners is required.

The allocation formula will be based off actual flow rates from the Mesa Verde and Dakota formations.

Please let me know if you require additional data.

Sincerely,

Peggy Bradfield  
Regulatory/Compliance Administrator

encs.

DISTRICT I  
P.O. Box 1980, Hobbs, NM 88241-1980  
DISTRICT II  
811 South First St., Artesia, NM 88210-2835  
DISTRICT III  
1000 Rio Brazos Rd, Aztec, NM 87410-1693

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  
New 3-12-96

APPROVAL PROCESS :

☒ Administrative  
☐ Hearing

APPLICATION FOR DOWNHOLE COMMINGLING

EXISTING WELLBORE

☒ YES ☐ NO

Burlington Resources Oil & Gas Company

PO Box 4289, Farmington, NM 87499

Operator

Address

Culpepper Martin

13

N-29-32N-12W

San Juan

Lease

Well No.

Unit Ltr. - Sec - Twp - Rge

County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 14538 Property Code 6935 API NO. 30-045-11222 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                                                                   |                   | Basin Dakota - 71599                                            |
| 2. Top and Bottom of Pay Section (Perforations)                                                                                                                                               | 4593-4887'                                                                                 |                   | 6830-6919'                                                      |
| 3. Type of production (Oil or Gas)                                                                                                                                                            | Gas                                                                                        |                   | Gas                                                             |
| 4. Method of Production (Flowing or Artificial Lift)                                                                                                                                          | Flowing                                                                                    |                   | Flowing                                                         |
| 5. Bottomhole Pressure<br>Oil Zones - Artificial Lift:<br>Estimated Current<br>Gas & Oil - Flowing:<br>Measured Current<br>All Gas Zones:<br>Estimated or Measured Original                   | (Current)<br>a. 885 psi (see attachment)<br><br>(Original)<br>b. 1211 psi (see attachment) | a.<br><br>b.      | a. 976 psi (see attachment)<br><br>b. 2017 psi (see attachment) |
| 6. Oil Gravity ( <sup>o</sup> API) or Gas BTU Content                                                                                                                                         | BTU 1182                                                                                   |                   | BTU 1162                                                        |
| 7. Producing or Shut-in?                                                                                                                                                                      | producing                                                                                  |                   | producing                                                       |
| Production Marginal? (yes or no)                                                                                                                                                              | No                                                                                         |                   | Yes                                                             |
| * If Shut-In and oil/gas/water rates of last production<br><br>Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data | Date: N/A<br>Rates:                                                                        | Date:<br>Rates:   | Date: N/A<br>Rates:                                             |
| * If Producing, give data and oil/gas/water water of recent test (within 60 days)                                                                                                             | Date: 8-96<br>Rates: 58 MCF/D<br>.19 BOPD                                                  | Date:<br>Rates:   | Date: 7-96 (see attached plot)<br>Rates: 19 MCF/D<br>0 BOPD     |
| 8. Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%)                                                                                                          | Will be supplied when completed                                                            |                   | Will be supplied when completed                                 |

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  
If not, have all working, overriding, and royalty interests been notified by certified mail? ☒ Yes ☐ No  
Have all offset operators been given written notice of the proposed downhole commingling? ☒ 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.  
\* Notification list of all offset operators.  
\* 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 Peggy Bradfield TITLE Regulatory Administrator DATE 9-24-96

TYPE OR PRINT NAME Peggy Bradfield TELEPHONE NO. ( 505 ) 326-9700

Operator

MEXICO OIL CONSERVATION COM S  
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102  
Supersedes C-128  
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

|                                                                                                                               |                                      |                        |                                  |                           |                                        |
|-------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|------------------------|----------------------------------|---------------------------|----------------------------------------|
| Operator<br><b>Aztec Oil and Gas Company</b>                                                                                  |                                      |                        | Lease<br><b>Culpepper Martin</b> |                           | Well No.<br><b>13</b>                  |
| Unit Letter<br><b>N</b>                                                                                                       | Section<br><b>29</b>                 | Township<br><b>32N</b> | Range<br><b>12W</b>              | County<br><b>San Juan</b> |                                        |
| Actual Footage Location of Well:<br><b>990</b> feet from the <b>South</b> line and <b>1760</b> feet from the <b>West</b> line |                                      |                        |                                  |                           |                                        |
| Ground Level Elev:                                                                                                            | Producing Formation<br><b>Dakota</b> |                        | Pool<br><b>Basin</b>             |                           | Dedicated Acreage:<br><b>320</b> Acres |

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation \_\_\_\_\_

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) \_\_\_\_\_

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.

CERTIFICATION

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

(Original Signed)

**Howard J. Speer**

Name

**Howard J. Speer**

Position

**District Geologist**

Company

**Aztec Oil and Gas**

Date

**August 18, 1966**

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 knowledge and belief.

Date Surveyed

Registered Professional Engineer and/or Land Surveyor

Certificate No.

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0

NEW MEXICO OIL CONSERVATION COMMISSION

Well Location and Acreage Dedication Plat

Section A.

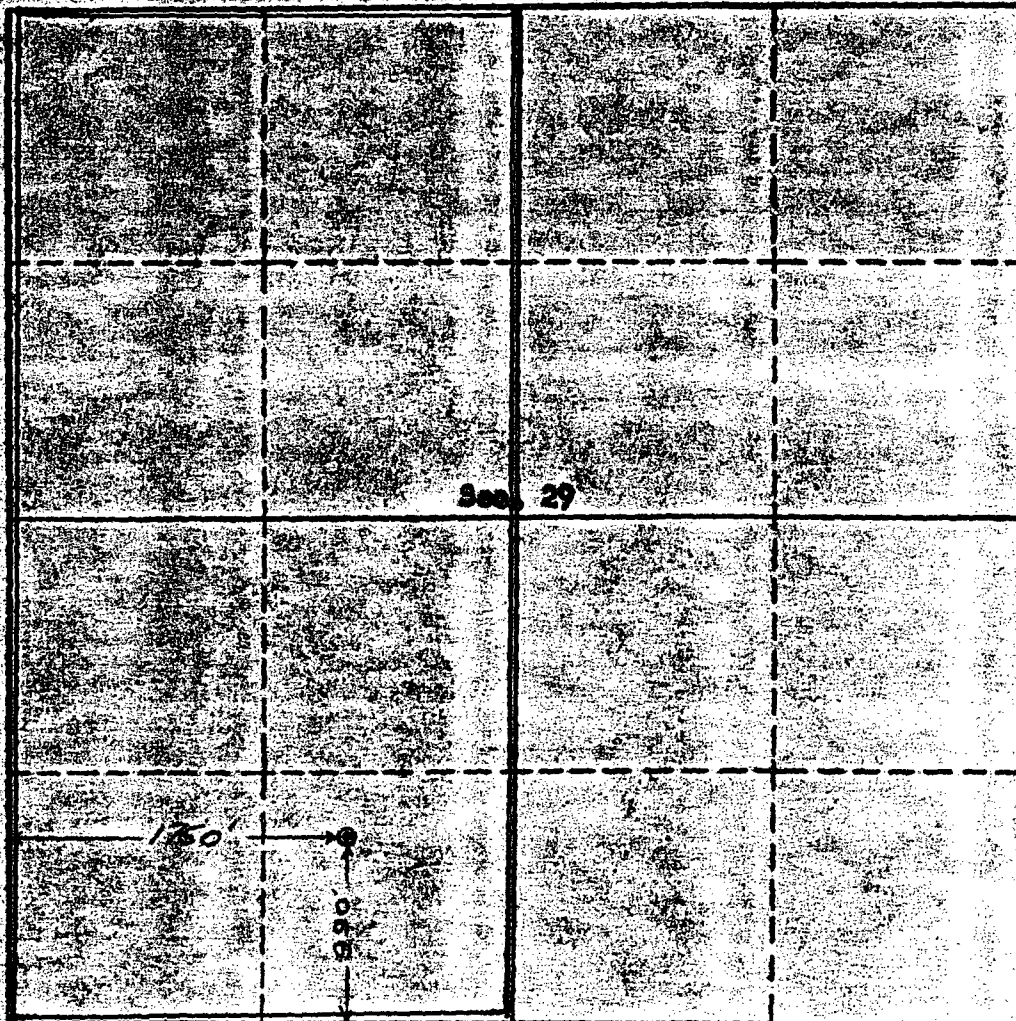
Date August 25, 1959

Operator AZTEC OIL & GAS COMPANY Lease CULPEPPER-MARTIN  
Well No. 13 Unit Letter L Section 29 Township 32N Range 12W NMPM  
Located 1760 Feet From West Line, 990 Feet From South Line  
County San Juan G. L. Elevation 5895 Dedicated Acreage 320 Acres  
Name of Producing Formation Mesaverde Pool Blanco-Mesaverde

1. Is the Operator the only owner\* in the dedicated acreage outlined on the plat below?  
Yes XXX No
2. If the answer to question one is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? Yes        No       . If answer is "yes,"  
Type of Consolidation
3. If the answer to question two is "no," list all the owners and their respective interests below:

| Owner | Land Description |
|-------|------------------|
|-------|------------------|

Section B.



This is to certify that the information in Section A above is true and complete to the best of my knowledge and belief.

AZTEC OIL & GAS COMPANY

(Operator)

ORIGINAL SIGNED BY JOE C. SALMON

(Representative)

BOX 786, FARMINGTON, N.M.

Address

This is to certify that the well location shown on the plat is correct as plotted from field notes of actual survey made under my supervision and that the same is true and correct to the best of my knowledge and belief.

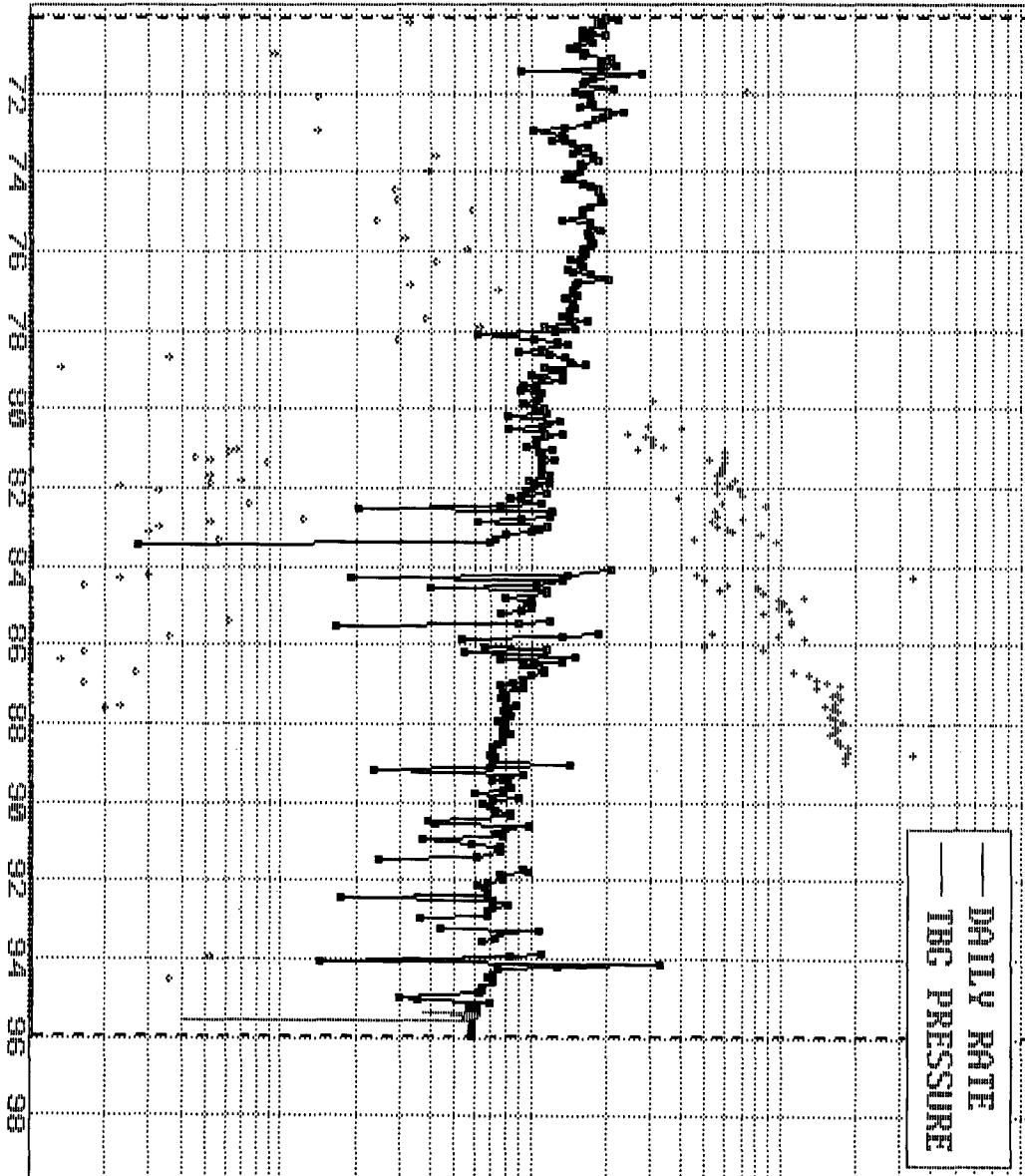
Date Surveyed August 22, 1959

Ernest V. Echoshawk  
Registered Land Surveyor.

Certificate No. 1545

0.1                      1                      10                      100                      \*OIL  
 0.001                   0.01                   0.1                      1                      \*WATER/GAS  
 1                        10                      100                    1000                  \*GAS  
 1                        10                      100                    1000                  \*WATER

CULPEPPER MARTIN (MU) : 13 : 10684-1



— DAILY RATE  
 — TBG PRESSURE

Prop 3 \*

- \*WATER Bbls/d
  - \*GAS Mcf/d
  - \*WATER/GAS
  - \*OIL Bbl/d
- RateTime Semi Log

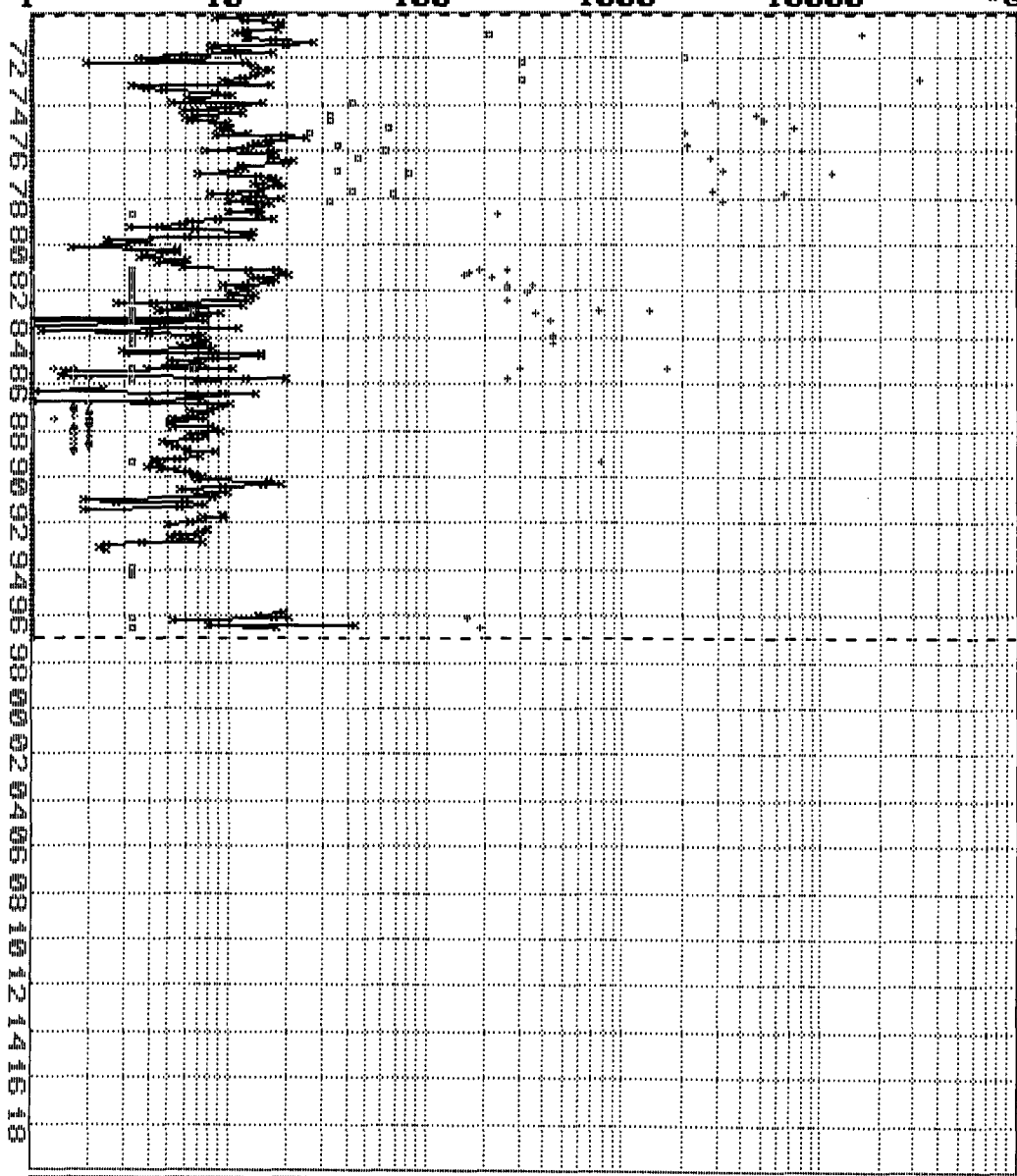
Major = GAS

|      |     |     |      |       |           |
|------|-----|-----|------|-------|-----------|
| 0.1  | 1   | 10  | 100  | 1000  | • WATER   |
| 0.01 | 0.1 | 1   | 10   | 100   | • OIL/GAS |
| 0.01 | 0.1 | 1   | 10   | 100   | • OIL     |
| 1    | 10  | 100 | 1000 | 10000 | • GAS     |

CULPEPPER MARTIN (DK) : 13 : 10685-1

Prop 27

- • GAS Mcf/d
- • OIL Bbl/d
- • OIL/GAS
- • WATER Bbls/d
- ▣ RateTime
- ▣ Semi Log



Major = GAS

**FLOWING AND STATIC BHP  
CULLENDER AND SMITH METHOD**

VERSION 1.0 3/13/94

|                                |        |
|--------------------------------|--------|
| GAS GRAVITY                    | 0.69   |
| COND. OR MISC. (C/M)           | C      |
| %N2                            | 0.33   |
| %CO2                           | 1.61   |
| %H2S                           | 0      |
| DIAMETER (IN)                  | 2.5    |
| DEPTH (FT)                     | 6919   |
| SURFACE TEMPERATURE (DEG F)    | 60     |
| BOTTOMHOLE TEMPERATURE (DEG F) | 200    |
| FLOWRATE (MCFPD)               | 0      |
| SURFACE PRESSURE (PSIA)        | 1670   |
| BOTTOMHOLE PRESSURE (PSIA)     | 2016.8 |

CULPEPPER MARTIN #13 DAKOTA - (ORIGINAL)

**FLOWING AND STATIC BHP  
CULLENDER AND SMITH METHOD**

VERSION 1.0 3/13/94

|                                |       |
|--------------------------------|-------|
| GAS GRAVITY                    | 0.69  |
| COND. OR MISC. (C/M)           | C     |
| %N2                            | 0.33  |
| %CO2                           | 1.61  |
| %H2S                           | 0     |
| DIAMETER (IN)                  | 2.5   |
| DEPTH (FT)                     | 6919  |
| SURFACE TEMPERATURE (DEG F)    | 60    |
| BOTTOMHOLE TEMPERATURE (DEG F) | 200   |
| FLOWRATE (MCFPD)               | 0     |
| SURFACE PRESSURE (PSIA)        | 822   |
| BOTTOMHOLE PRESSURE (PSIA)     | 976.2 |

CULPEPPER MARTIN #13 DAKOTA - (CURRENT )



```
----- DWIGHTS TEST DATA REPORT ----- ROW 1 OF 13
COMMAND ==>                                SCROLL ==> PAGE
```

|                                       |                                 |                   |
|---------------------------------------|---------------------------------|-------------------|
| State: 30                             | Lease Name: CULPEPPER MARTIN    |                   |
| Prod: 2                               | County Name: SAN JUAN           |                   |
| Ident: 32N12W29N00DK                  | Reservoir Name: DAKOTA          |                   |
| District: 4                           | Operator Name: MERIDIAN OIL INC |                   |
| Location: 29N 32N 12W                 | Field Name: BASIN (DAKOTA)      |                   |
| Retrieval code: 251,045,32N12W29N00DK | Well: 000013                    | Total Depth: 7025 |
| Gas Gath: WFS                         | Status: INA                     | Upper Perf: 6830  |
| API No: 1122200                       | Comp Date: 196607               | Lower Perf: 6919  |

| Date     | Cum to Test | WHSIP   | BHP  | P/Z       | BDWtr | BCnd      | WHFlw | Poten        | MC | Pt | Z      | FAC |
|----------|-------------|---------|------|-----------|-------|-----------|-------|--------------|----|----|--------|-----|
| 19660729 | 0           | 1670    | 2009 | 2307      | 0     | 0         | 0     | 1468         | C  | 1  | 71.000 |     |
| 19660810 | 40,055      | 578     | 680  | 721       | 0     | 0         | 466   | 22           | C  | 2  | 43.000 |     |
| 19700718 | 43,093      | 591     | 696  | 740       | 0     | 0         | 466   | 22           | C  | 2  | 41.000 |     |
| 19720718 | 52,509      | 578     | 680  | 721       | 0     | 0         | 466   | 22           | C  | 2  | 43.000 |     |
| 19730617 | 55,905      | 751     | 887  | 957       | 0     | 0         | 384   | 11           | C  | 2  | 27.000 |     |
| 19750225 | 61,365      | 399     | 467  | 486       | 0     | 0         | 302   | 12           | C  | 2  | 60.000 |     |
| 19751225 | 65,806      | 399     | 467  | 486       | 0     | 0         | 302   | 12           | C  | 2  | 60.000 |     |
| 19770825 | 75,340      | 759     | 897  | 969       | 0     | 0         | 425   | 19           | C  | 2  | 26.000 |     |
| F1=HELP  | F2=SPLIT    | F3=END  |      | F4=RETURN |       | F5=RFIND  |       | F6=RCHANGE   |    |    |        |     |
| F7=UP    | F8=DOWN     | F9=SWAP |      | F10=LEFT  |       | F11=RIGHT |       | F12=RETRIEVE |    |    |        |     |
| B MY JOB |             |         |      | LU #4     |       |           |       |              |    |    |        |     |

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----- DWIGHTS TEST DATA REPORT ----- ROW 7 OF 13
COMMAND ==> SCROLL ==> PAGE
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|                                       |                                 |                   |
|---------------------------------------|---------------------------------|-------------------|
| State: 30                             | Lease Name: CULPEPPER MARTIN    |                   |
| Prod: 2                               | County Name: SAN JUAN           |                   |
| Ident: 32N12W29N00DK                  | Reservoir Name: DAKOTA          |                   |
| District: 4                           | Operator Name: MERIDIAN OIL INC |                   |
| Location: 29N 32N 12W                 | Field Name: BASIN (DAKOTA)      |                   |
| Retrieval code: 251,045,32N12W29N00DK | Well: 000013                    | Total Depth: 7025 |
| Gas Gath: WFS                         | Status: INA                     | Upper Perf: 6830  |
| API No: 1122200                       | Comp Date: 196607               | Lower Perf: 6919  |

| Date                       | Cum to Test | WHSIP   | BHP       | P/Z       | BDWtr        | BDCnd | WHFlw | Poten | MC | Pt | Z      | FAC |
|----------------------------|-------------|---------|-----------|-----------|--------------|-------|-------|-------|----|----|--------|-----|
| 19751225                   | 65,806      | 399     | 467       | 486       | 0            | 0     | 302   | 12    | C  | 2  | 60.000 |     |
| 19770825                   | 75,340      | 759     | 897       | 969       | 0            | 0     | 425   | 19    | C  | 2  | 26.000 |     |
| 19790501                   | 82,488      | 776     | 917       | 991       | 0            | 0     | 423   | 1     | C  | 2  | 25.000 |     |
| 19810623                   | 88,919      | 708     | 836       | 898       | 0            | 0     | 416   | 22    | C  | 2  | 31.000 |     |
| 19830608                   | 95,470      | 766     | 905       | 977       | 0            | 0     | 443   | 7     | C  | 2  | 26.000 |     |
| 19850403                   | 99,854      | 841     | 996       | 1084      | 0            | 0     | 355   | 5     | C  | 2  | 19.000 |     |
| 19900608                   | 112,323     | 822     | 973       | 1056      | 0            | 0     | 319   | 32    | C  | 2  | 21.000 |     |
| ***** BOTTOM OF DATA ***** |             |         |           |           |              |       |       |       |    |    |        |     |
| F1=HELP                    | F2=SPLIT    | F3=END  | F4=RETURN | F5=RFIND  | F6=RCHANGE   |       |       |       |    |    |        |     |
| F7=UP                      | F8=DOWN     | F9=SWAP | F10=LEFT  | F11=RIGHT | F12=RETRIEVE |       |       |       |    |    |        |     |
| B MY JOB                   |             | LU #4   |           |           |              |       |       |       |    |    |        |     |

```
----- DWIGHTS TEST DATA REPORT ----- ROW 1 OF 15
COMMAND ==>                                SCROLL ==> PAGE
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|                 |                       |                 |                    |              |      |
|-----------------|-----------------------|-----------------|--------------------|--------------|------|
| State:          | 30                    | Lease Name:     | CULPEPPER MARTIN   |              |      |
| Prod:           | 2                     | County Name:    | SAN JUAN           |              |      |
| Ident:          | 32N12W29N00MV         | Reservoir Name: | MESAVERDE          |              |      |
| District:       | 4                     | Operator Name:  | MERIDIAN OIL INC   |              |      |
| Location:       | 29N 32N 12W           | Field Name:     | BLANCO (MESAVERDE) |              |      |
| Retrieval code: | 251,045,32N12W29N00MV | Well:           | 000013             | Total Depth: | 7025 |
| Gas Gath:       | WFS                   | Status:         | ACT                | Upper Perf:  | 4600 |
| API No:         | 1122200               | Comp Date:      | 195909             | Lower Perf:  | 4887 |

| Date     | Cum to Test | WHSIP   | BHP  | P/Z       | BDWtr | BDCnd     | WHFlw | Poten        | MC | Pt | Z      | FAC |
|----------|-------------|---------|------|-----------|-------|-----------|-------|--------------|----|----|--------|-----|
| 19590914 | 0           | 1059    | 1198 | 1371      | 0     | 0         | 0     | 4394         | C  | 2  | 74.000 |     |
| 19700618 | 852,671     | 537     | 602  | 645       | 0     | 0         | 467   | 213          | C  | 2  | 33.000 |     |
| 19710617 | 916,792     | 544     | 609  | 653       | 0     | 0         | 421   | 185          | C  | 2  | 32.000 |     |
| 19720517 | 976,800     | 531     | 595  | 638       | 0     | 0         | 420   | 250          | C  | 2  | 33.000 |     |
| 19730617 | 1,040,919   | 544     | 609  | 653       | 0     | 0         | 385   | 157          | C  | 2  | 32.000 |     |
| 19740601 | 1,096,421   | 631     | 708  | 768       | 0     | 0         | 338   | 206          | C  | 2  | 22.000 |     |
| 19760617 | 1,223,919   | 492     | 551  | 587       | 0     | 0         | 353   | 154          | C  | 2  | 38.000 |     |
| 19780502 | 1,321,386   | 498     | 557  | 594       | 0     | 0         | 385   | 173          | C  | 2  | 37.000 |     |
| F1=HELP  | F2=SPLIT    | F3=END  |      | F4=RETURN |       | F5=RFIND  |       | F6=RCHANGE   |    |    |        |     |
| F7=UP    | F8=DOWN     | F9=SWAP |      | F10=LEFT  |       | F11=RIGHT |       | F12=RETRIEVE |    |    |        |     |
| B MY JOB |             |         |      | LU #4     |       |           |       |              |    |    |        |     |

```
----- DWIGHTS TEST DATA REPORT ----- ROW 9 OF 15
COMMAND ==>                                SCROLL ==> PAGE
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State: 30                      Lease Name: CULPEPPER MARTIN
Prod: 2                        County Name: SAN JUAN
Ident: 32N12W29N00MV         Reservoir Name: MESAVERDE
District: 4                   Operator Name: MERIDIAN OIL INC
Location: 29N 32N 12W        Field Name: BLANCO (MESAVERDE)
Retrieval code: 251,045,32N12W29N00MV  Well: 000013      Total Depth: 7025
Gas Gath: WFS                 Status: ACT                Upper Perf: 4600
API No: 1122200              Comp Date: 195909      Lower Perf: 4887

```

| Date                       | Cum to Test | WHSIP   | BHP       | P/Z  | BDWtr | BDCnd     | WHFlw | Poten        | MC | Pt | Z      | FAC |
|----------------------------|-------------|---------|-----------|------|-------|-----------|-------|--------------|----|----|--------|-----|
| 19800607                   | 1,409,695   | 498     | 557       | 594  | 0     | 0         | 402   | 124          | C  | 2  | 37.000 |     |
| 19820407                   | 1,482,922   | 466     | 521       | 554  | 0     | 0         | 387   | 119          | C  | 2  | 41.000 |     |
| 19840822                   | 1,542,482   | 493     | 552       | 588  | 0     | 0         | 423   | 132          | C  | 2  | 38.000 |     |
| 19860219                   | 1,586,014   | 875     | 986       | 1104 | 0     | 0         | 392   | 186          | C  | 2  | 93.000 |     |
| 19891026                   | 1,699,022   | 460     | 515       | 547  | 0     | 0         | 324   | 81           | C  | 2  | 42.000 |     |
| 19910910                   | 1,741,366   | 485     | 543       | 578  | 0     | 0         | 388   | 75           | C  | 2  | 39.000 |     |
| 19931229                   | 1,790,655   | 605     | 679       | 734  | 0     | 0         | 392   | 106          | C  | 2  | 0.925  |     |
| ***** BOTTOM OF DATA ***** |             |         |           |      |       |           |       |              |    |    |        |     |
| F1=HELP                    | F2=SPLIT    | F3=END  | F4=RETURN |      |       | F5=RFIND  |       | F6=RCHANGE   |    |    |        |     |
| F7=UP                      | F8=DOWN     | F9=SWAP | F10=LEFT  |      |       | F11=RIGHT |       | F12=RETRIEVE |    |    |        |     |
| B MY JOB                   |             |         | LU #4     |      |       |           |       |              |    |    |        |     |

**FLOWING AND STATIC BHP  
CULLENDER AND SMITH METHOD**

VERSION 1.0 3/13/94

|                                |        |
|--------------------------------|--------|
| GAS GRAVITY                    | 0.69   |
| COND. OR MISC. (C/M)           | C      |
| %N2                            | 0.21   |
| %CO2                           | 0.75   |
| %H2S                           | 0      |
| DIAMETER (IN)                  | 2.5    |
| DEPTH (FT)                     | 4887   |
| SURFACE TEMPERATURE (DEG F)    | 60     |
| BOTTOMHOLE TEMPERATURE (DEG F) | 150    |
| FLOWRATE (MCFPD)               | 0      |
| SURFACE PRESSURE (PSIA)        | 1059   |
| BOTTOMHOLE PRESSURE (PSIA)     | 1211.1 |

CULPEPPER MARTIN #13 MESAVERDE - (ORIGINAL )

**FLOWING AND STATIC BHP  
CULLENDER AND SMITH METHOD**

VERSION 1.0 3/13/94

|                                |       |
|--------------------------------|-------|
| GAS GRAVITY                    | 0.69  |
| COND. OR MISC. (C/M)           | C     |
| %N2                            | 0.21  |
| %CO2                           | 0.75  |
| %H2S                           | 0     |
| DIAMETER (IN)                  | 2.5   |
| DEPTH (FT)                     | 4887  |
| SURFACE TEMPERATURE (DEG F)    | 60    |
| BOTTOMHOLE TEMPERATURE (DEG F) | 150   |
| FLOWRATE (MCFPD)               | 0     |
| SURFACE PRESSURE (PSIA)        | 605   |
| BOTTOMHOLE PRESSURE (PSIA)     | 685.1 |

CULPEPPER MARTIN #13 MESAVERDE - (CURRENT)

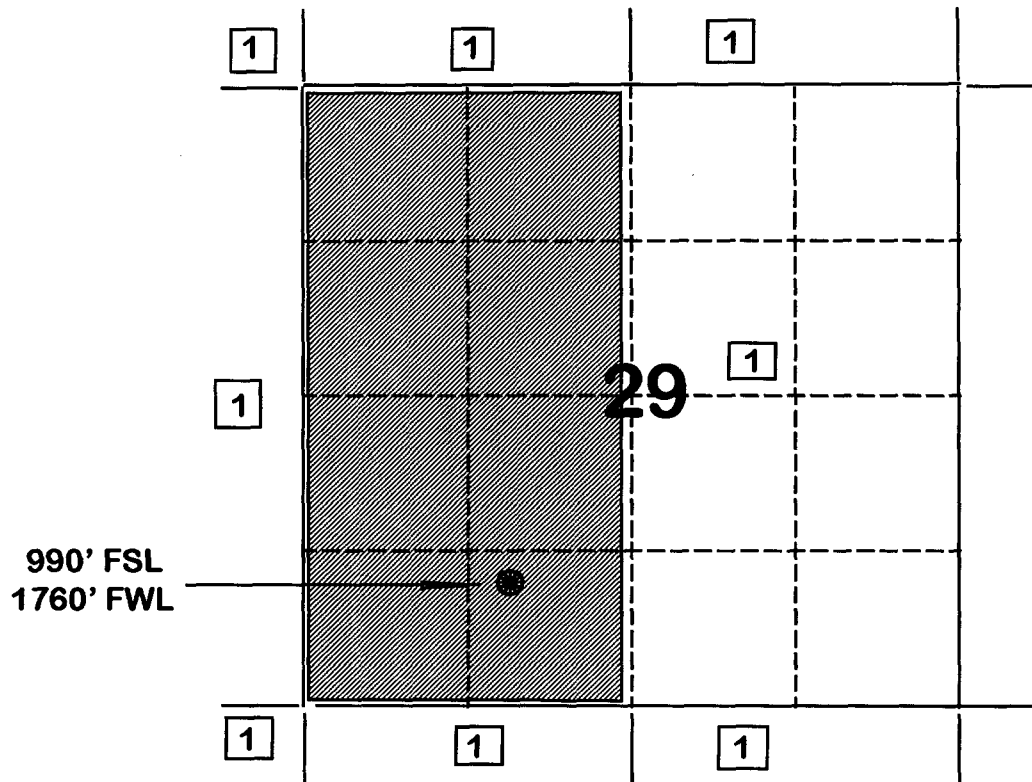
***BURLINGTON RESOURCES OIL AND GAS COMPANY***

## **CULPEPPER MARTIN #13**

**OFFSET OPERATOR \ OWNER PLAT**

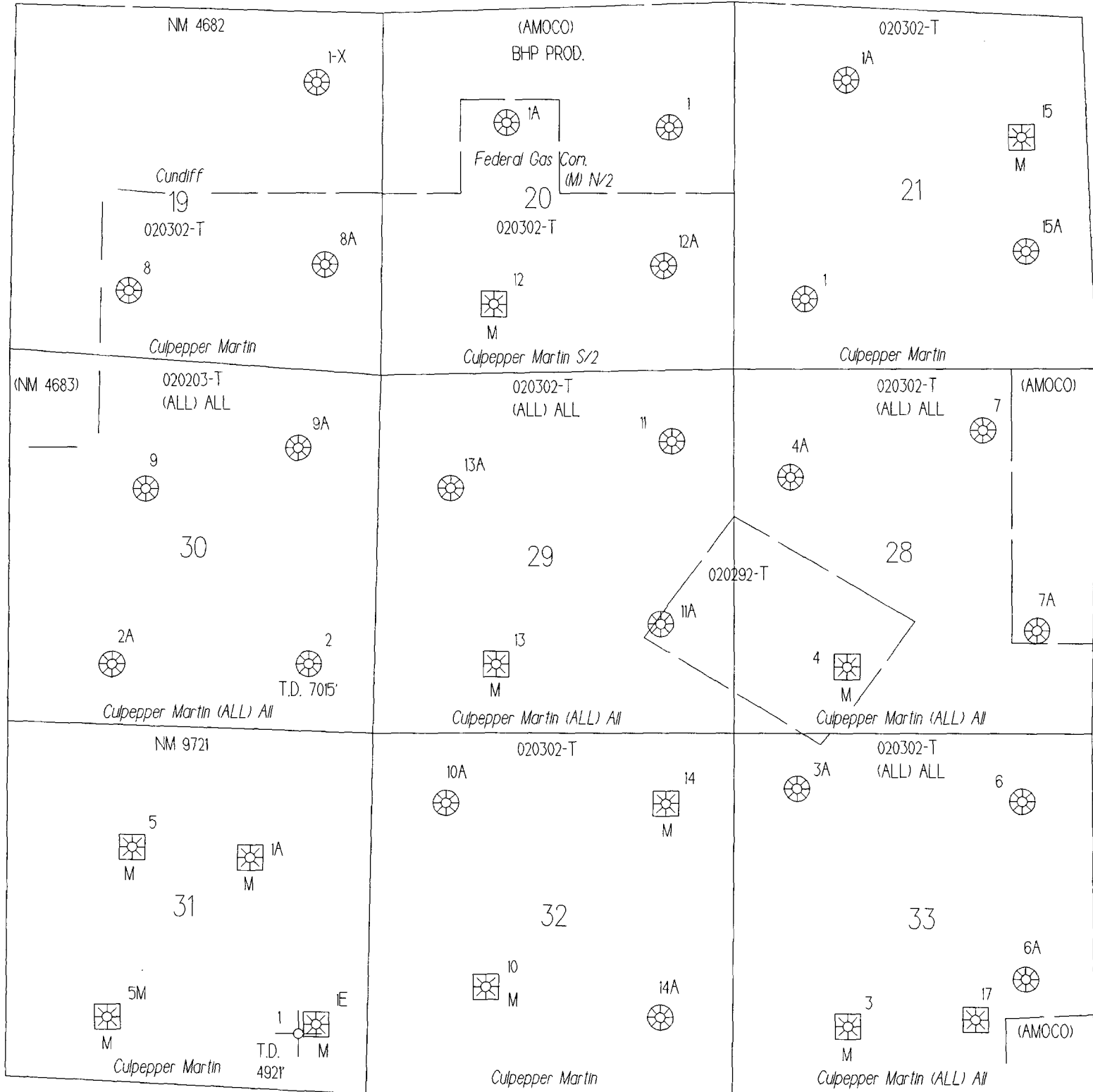
**Mesaverde/Dakota Formations Commingle Well**

**Township 32 North, Range 12 West**



**1) Burlington Resources Oil and Gas Company Successor to Meridian Oil Inc.**

# CULPEPPER MARTIN #13 BLANCO MESAVERDE/BASIN DAKOTA SECTION 29, T32N, R12W



## PRODUCTION ALLOCATION FORMULA METHOD

**Culpepper Martin #13  
(Mesaverde/Dakota) Commingle  
Unit N, SE/4, 29-T32N-R12W  
San Juan County, New Mexico**

### Allocation Formula Method:

**Current Production from Mesaverde formation = 60 MCFD**

**Current Production from Dakota formation = 19 MCFD**

$$\frac{[(MV \& DK) 79 \text{ MCFD} - (MV) 60 \text{ MCFD}]}{(MV \& DK) 79 \text{ MCFD}} = (DK) \% \text{ Dakota 24\%}$$

$$\frac{[(MV \& DK) 79 \text{ MCFD} - (DK) 19 \text{ MCFD}]}{(MV \& DK) 79 \text{ MCFD}} = (MV) \% \text{ Mesaverde 76\%}$$