

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

APPLICATION FOR DOWNHOLE COMMINGLING

EXISTING WELLBORE

☒ YES ☐ NO

**Burlington Resources Oil and Gas**

**PO Box 4289, Farmington, NM 87401**

Operator  
**Johns**

**1A**

Address  
**D-19-32N-11W**

Lease

Well No.

Unit Ltr. - Sec - Twp - Rge

County

Spacing Unit Lease Types (check all that apply)

OGRID NO. **14538** Property Code **18561** API NO. **30-045-21814** 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 Pictured Cliffs- 72359                                                   |                   | Blanco Mesaverde- 72319                               |
| 2. Top and Bottom of Pay Section (Perforations)                                                                                                                                                                                                                                           | 3135-3188                                                                       |                   | 4899-5642                                             |
| 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>Gas & Oil - Flowing:<br>All Gas Zones:<br>Estimated Current<br>Measured Current<br>Estimated Or Measured Original                                                                                                               | a. (Current) 637 psi (see attachment)<br>b. (Original) 852 psi (see attachment) | a.<br>b.          | 382 psi (see attachment)<br>1020 psi (see attachment) |
| 6. Oil Gravity (EAPI) or Gas BTU Content                                                                                                                                                                                                                                                  | BTU 1179                                                                        |                   | BTU 1167                                              |
| 7. Producing or Shut-In?                                                                                                                                                                                                                                                                  | Producing                                                                       |                   | Producing                                             |
| Production Marginal? (yes or no)                                                                                                                                                                                                                                                          | Yes                                                                             |                   | Yes                                                   |
| * 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 and oil/gas/water rates of recent test (within 60 days) | Date:<br>Rates:                                                                 | Date:<br>Rates:   | Date:<br>Rates:                                       |
|                                                                                                                                                                                                                                                                                           | Date: 10/31/99<br>Rates: 60 mcf                                                 | Date:<br>Rates:   | Date: 10/31/99<br>Rates: 158 mcf                      |
| 8. Fixed Percentage Allocation<br>Formula - % for each zone<br>(total of %'s to equal 100%)                                                                                                                                                                                               | Will be supplied upon completion.                                               |                   | 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  
If not, have all working, overriding, and royalty interests been notified by certified mail? ☒ 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 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 J. L. Dobson TITLE PRODUCTION ENGINEER DATE 12-29-99

TYPE OR PRINT NAME Jennifer Dobson TELEPHONE NO. ( 505 ) 326-9700

Johns 1A

| Company                                 | Address1                                  | Address2                 | City            | State | Zip       |
|-----------------------------------------|-------------------------------------------|--------------------------|-----------------|-------|-----------|
| ALBERT L HOPKINS JR                     | BANK OF AMERICA ILLINOIS                  | P O BOX 67               | DANBURY         | NH    | 32300067  |
| ANTHONY BARD BOAND                      |                                           | PO BOX 840738            | DALLAS          | TX    | 752840738 |
| ARCH W SHAW II TRUST U/A/D 2/1/71       |                                           | THOMASVILLE RT BOX 60-B  | BIRCH TREE      | MO    | 65438     |
| ATNA/SJ 1993-A                          | C/O CHASE BANK OF TEXAS                   | PO BOX 910864            | DALLAS          | TX    | 753910864 |
| BANK OF AMERICA NA                      | SABINE ROYALTY TRUST                      | LBX 840887               | DALLAS          | TX    | 752840887 |
| BANK ONE CORP                           | U/A ROBERT DOUGLAS STUART, dtd 8/4/71     | P O BOX 99084            | FORT WORTH      | TX    | 761990084 |
| BANK ONE CORP AGENT                     | VW & RT ISHAM TRUSTEES                    | PO BOX 99084             | FORT WORTH      | TX    | 761990084 |
| BRUCE P SHAW TRUST                      | U/A/D 6/8/72                              | THOMASVILLE RT BOX 60-B  | BIRCH TREE      | MO    | 65438     |
| CAMBRIDGE TRUST CO TRUSTEE              | EDWARD L RYERSON JR TRUST                 | 1336 MASSACHUSETTS AVE   | CAMBRIDGE       | MA    | 21383829  |
| CARL V BATES                            | 408 6TH AVE                               | PO BOX 957               | OURAY           | CO    | 81427     |
| CAROL FITTING CHESNUT                   | 7537 DRY PINES CIR                        | 7537 DRY PINES CIR       | LAS VEGAS       | NV    | 89129     |
| CAROL FITTING CHESNUT INDEP             | JAMES LOWELL FITTING ESTATE               | 7537 DRY PINES CIR       | LAS VEGAS       | NV    | 89129     |
| CATHARINE H RUML                        |                                           | P O BOX 297              | SOUTH STRAFFORD | VT    | 50700297  |
| CHARLES WELLS FARNHAM JR                | ST MARYS POINT                            | 16825 S 25TH ST          | LAKELAND        | MN    | 55043     |
| CORTLAND T HILL DECD TRUST, dtd 9/16/74 | C/O COLORADO NATIONAL BANK                | PO BOX 17532 (CNDT 2332) | DENVER          | CO    | 80217     |
| DIANE DERRY                             |                                           | 736 HINMAN AVE #1W       | EVANSTON        | IL    | 60202     |
| EDNA E MORRELL LIV TR 11-1073           | C/O NORWEST BANK NEW MEXICO NA            | PO BOX 5383              | DENVER          | CO    | 80217     |
| ELEANOR ISHAM DUNNE                     |                                           | 210 N WESTERN AVE        | LAKE FOREST     | IL    | 600452132 |
| ELIZABETH B FARRINGTON                  |                                           | 12 MURRAY HILL SQUARE    | MURRAY HILL     | NJ    | 7974      |
| ELLIOTT INDUSTRIES                      |                                           | PO BOX 1355              | ROSWELL         | NM    | 88202     |
| ELLIOTT OIL COMPANY                     |                                           | BOX 1355                 | ROSWELL         | NM    | 88201     |
| ELLIOTT-HALL COMPANY                    |                                           | PO BOX 1231              | OGDEN           | UT    | 84402     |
| F F WEBSTER IV TRUST ESTATE             | C/O GLENVIEW STATE BANK, Attn: H. Slotta  | 800 WAUKEGAN RD          | GLENVIEW        | IL    | 60025     |
| FITTING-CHESNUT FAMILY LTD PTSHP        |                                           | PO BOX 782               | MIDLAND         | TX    | 79702     |
| FREDERICK F WEBSTER JR                  |                                           | 945 WOODLAND DRIVE       | GLENVIEW        | IL    | 60025     |
| FREEMAN RODNEY FITTING                  |                                           | 3537 MITCHELL LN         | BESSEMER        | AL    | 35023     |
| GARY EDWARD FITTING                     |                                           | 821 SKY WOOD CT          | SAGINAW         | TX    | 76179     |
| GEORGE A RANNEY                         |                                           | 17370 WEST CASEY ROAD    | LIBERTYVILLE    | IL    | 60048     |
| GEORGE S ISHAM TRUSTEE                  | C/O LINDA MCGLYNN                         | PO BOX 307               | LAKE FOREST     | IL    | 60045     |
| GUY R BRAINARD JR TRUSTEE OF            | THE GUY R BRAINARD JR TRUST, dated 9/9/8  | 6621 S NEW HAVEN         | TULSA           | OK    | 74136     |
| HILL HYDROCARBONS INC                   | C/O BAUER FINANCIAL SERVICES INC          | 209 E 10TH ST            | HARVEY          | ND    | 58341     |
| HOPE G SIMPSON                          | C/O SIMPSON ESTATES INC                   | 30 N LASALLE STE 1232    | CHICAGO         | IL    | 606022504 |
| INDIANA UNIVERSITY FOUNDATION           | ATTN W L KOON JR VP INVST, Showalter Hous | PO BOX 500               | BLOOMINGTON     | IN    | 47402     |
| J ROBERT JONES                          |                                           | 1205 W PECAN             | MIDLAND         | TX    | 79705     |
| JAMES C BARD                            |                                           | 850 COUNTY RD 10         | MEEKER          | CO    | 81641     |

|                                                                            |                                              |                                 |               |    |           |
|----------------------------------------------------------------------------|----------------------------------------------|---------------------------------|---------------|----|-----------|
| JAMES E PALMER SUCCESSOR                                                   | TRUSTEE U/T/A DTD 2/21/63, FBO M Lattner S   | PO BOX 29352                    | SAN FRANCISCO | CA | 941290352 |
| JAMES RANDOLPH FITTING                                                     | NATO-AWACS PSC #7                            | BOX 314                         | APO           | AE | 9104      |
| JANET BARR FITTING INDEP EXEC                                              | ROBERT D FITTING ESTATE                      | PO BOX 50582                    | MIDLAND       | TX | 797100582 |
| JENNIFER ROSE DERRY                                                        | C/O BAUER FINANCIAL SERVICES INC             | 2648 E WORKMAN AVE STE 211      | W COVINA      | CA | 91791     |
| JMH OIL INC                                                                |                                              | 209 E 10TH ST                   | HARVEY        | ND | 583411621 |
| JOAN DERRY                                                                 |                                              | 5825 COLBY ST                   | OAKLAND       | CA | 946181224 |
| JOHN I SHAW JR TRUST                                                       | U/A/D 1/2/57                                 | THOMASVILLE RT BOX 60-B         | BIRCH TREE    | MO | 65438     |
| JOHN M & WILLIAM SIMPSON TR U/W J J Simpson                                | ATTN BARRY WALDORF                           | 114 WEST 47TH STREET            | NEW YORK      | NY | 10036     |
| JUDITH SHAW TRUST                                                          | U/A/D 4-14-66                                | THOMASVILLE RT BOX 60-B         | BIRCH TREE    | MO | 65438     |
| KATHERINE I WHITE                                                          | C/O JOHN T BEATY JR                          | 4520 E WEST HIGHWAY STE 530     | BETHESDA      | MD | 20814     |
| KATHLEEN EARNEST RIOS TRUSTEE                                              | EARNEST TRUST DTD 5/4/79                     | 2404 LORING #131                | SAN DIEGO     | CA | 921092347 |
| KAY B GUNDLACH                                                             |                                              | FEARINGTON POST 247             | PITTSBORO     | NC | 27312     |
| KELLY FITTING STEWART                                                      |                                              | 2910 CANYON CREEK               | SAN ANGELO    | TX | 76904     |
| KEYES BABER PROPERTIES, Acct # 5096900                                     | C/O CHASE BANK OF TEXAS NA                   | PO BOX 201595                   | HOUSTON       | TX | 772161595 |
| KHRISTI ELAINE FITTING MORITZ                                              |                                              | 9438 TRANQUIL PARK              | SAN ANTONIO   | TX | 78250     |
| LASALLE ADAMS FUND                                                         | C/O MR KEN PAULO                             | THE WORLD TRADE CENTER          | NEW YORK      | NY | 100480772 |
| LAURA DICHTER                                                              |                                              | 2324 DAHLIA ST                  | DENVER        | CO | 80207     |
| LOUIS W HILL JR, #25540080 LOUIS W HILL JR AGCY C/O COLORADO NATIONAL BANK |                                              | PO BOX 17532 (CNDT2311)         | DENVER        | CO | 80217     |
| MARY F LOVE                                                                |                                              | 757 ASHLEY RD                   | MONTICITO     | CA | 93108     |
| MARY S ZICK                                                                |                                              | 621 W LYON FARM DR              | GREENWICH     | CT | 6831      |
| MICHAEL SIMPSON TRUST                                                      | C/O U S TRUST CO OF N Y, Attn: Barry Waldorf | 114 WEST 47TH STREET            | NEW YORK      | NY | 10036     |
| MINA RUTH FITTING                                                          |                                              | 3910 EDGEBROOK CT               | MIDLAND       | TX | 79707     |
| MINERALS MANAGEMENT SERVICE                                                | ROYALTY MANAGEMENT PROGRAM                   | PO BOX 5810                     | DENVER        | CO | 802175810 |
| MINNIE A FITTING                                                           |                                              | 106 4TH ST                      | RADFORD       | VA | 241411521 |
| NANCY C BARD LISA BARD FIELD                                               | TRUSTEES U/C/O DTD 10-7-86                   | 480 JASON RD                    | FT COLLINS    | CO | 80524     |
| NANCY H GERSON                                                             |                                              | 1555 ASTOR ST                   | CHICAGO       | IL | 60610     |
| NORMAN L HAY JR TRUSTEE OF THE                                             | NORMAN L HAY JR GS TRUST                     | 3416 TIMBERMILL LN              | WACO          | TX | 767101342 |
| NORTHERN TRUST BNK/LAKE FOREST                                             | U/A ROBERT DOUGLAS STUART, Dtd. 8/4/71       | PO BOX 226270                   | DALLAS        | TX | 75222     |
| PATRICK J HERBERT III                                                      | FBO JAMES F CURTIS III TRUST                 | 30 N LASALLE STE 1232           | CHICAGO       | IL | 606022504 |
| PAUL SLAYTON                                                               |                                              | PO BOX 2035                     | ROSWELL       | NM | 882022035 |
| RALPH A BARD JR TRUSTEE                                                    | U/A/D FEBRUARY 12, 1983                      | 135 S LA SALLE ST, STE. 2320    | CHICAGO       | IL | 606034108 |
| RALPH AUSTIN BARD JR                                                       | TRUSTEE U/A/D 7-25-49                        | 135 S LASALLE STREET, Ste. 2320 | CHICAGO       | IL | 606034108 |
| RALPH G ROBERSON JR                                                        | FIRST SECURITY BANK, ACCT#107000275-094      | PO BOX 305                      | ALBUQUERQUE   | NM | 87103     |
| RALPH U FITTING JR TRST                                                    |                                              | PO BOX 782                      | MIDLAND       | TX | -         |
| ROBERT B FARNHAM                                                           | ST MARYS POINTE                              | 16757 S 25TH ST                 | LAKELAND      | MN | 55043     |
| ROBERT T ISHAM & G S ISHAM &                                               | BANK ONE CORP TRS UTA ELIZABETH ISHA         | DRAWER NO 99084                 | FORT WORTH    | TX | 761990084 |
| ROBERT T ISHAM TRUST                                                       | U/A/D 10/30/89                               | 335 HOT SPRINGS RD              | SANTA BARBARA | CA | 93108     |

|                                            |               |                          |              |    |           |
|--------------------------------------------|---------------|--------------------------|--------------|----|-----------|
| ROGER D SHAW JR TRUST                      | U/A/D 8-27-62 | THOMASVILLE RT BOX 60-B  | BIRCH TREE   | MO | 65438     |
| ROY E BARD JR                              |               | 508 S PARKWOOD AVE       | PARK RIDGE   | IL | 60068     |
| RUTH FITTING WESTER                        |               | 12304 EDWARDS HOLLOW RUN | AUSTIN       | TX | 787397621 |
| RUTH FITTING WESTER FAMILY LTD             |               | 12304 EDWARDS HOLLOW RUN | AUSTIN       | TX | 787397621 |
| SAN JUAN 1990-A LP                         |               | PO BOX 910864            | DALLAS       | TX | 753910864 |
| SUSANNE SHAW TRUST                         |               | THOMASVILLE RT BOX 60-B  | BIRCH TREE   | MO | 65438     |
| BOARD OF TRUSTEES LELAND STANFORD JR. UNIV |               | PO BOX 910864            | DALLAS       | TX | 753910864 |
| UW FOSTER MORRELL DECD 11-1065             |               | PO BOX 5383              | DENVER       | CO | 80217     |
| VIRGINIA LEE STREETER                      |               | 5815 PARFET ST           | ARVADA       | CO | 80004     |
| VIRGINIE W ISHAM                           |               | C/O LINDA MC GLYNN       | LAKE FORREST | IL | 60045     |
| W WATSON LAFORCE JR                        |               | PO BOX 353               | MIDLAND      | TX | 79701     |
| WALTER B FARNHAM                           |               | P O BOX 494              | NORWOOD      | CO | 814230494 |
| WILLIAM H JOHNS                            |               | 74 KEN ST                | DEXTER       | NM | 88230     |
| WILLIAM P SUTTER                           |               | THREE FIRST NATL PLAZA   | CHICAGO      | IL | 60602     |
| WILLIAM W SHAW TRUST                       |               | ROOM 4300                | BIRCH TREE   | MO | 65438     |
|                                            |               | THOMASVILLE RT BOX 60-B  |              |    |           |

**MEXICO OIL CONSERVATION COMMISSION**  
**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.

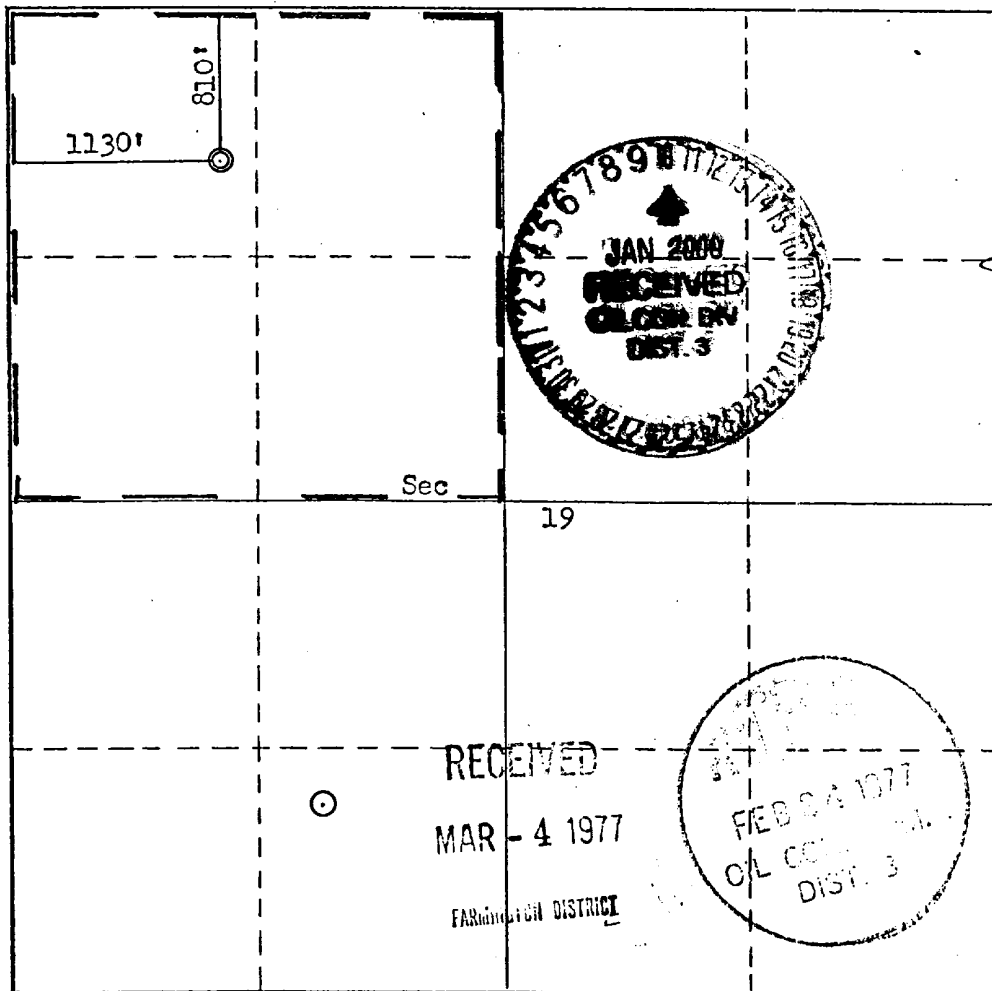
|                                                                                                                               |                                               |                        |                                        |                           |                       |
|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|------------------------|----------------------------------------|---------------------------|-----------------------|
| Operator<br><b>Aztec Oil &amp; Gas Company</b>                                                                                |                                               |                        | Lease<br><b>Johns</b>                  |                           | Well No.<br><b>1A</b> |
| Unit Letter<br><b>D</b>                                                                                                       | Section<br><b>19</b>                          | Township<br><b>32N</b> | Range<br><b>11W</b>                    | County<br><b>San Juan</b> |                       |
| Actual Footage Location of Well:<br><b>810</b> feet from the <b>North</b> line and <b>1130</b> feet from the <b>West</b> line |                                               |                        |                                        |                           |                       |
| Ground Level Elev.<br><b>6534</b>                                                                                             | Producing Formation<br><b>Pictured Cliffs</b> | Pool<br><b>Elanco</b>  | Dedicated Acreage:<br><b>160</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**

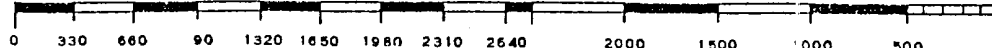
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name *Elmer Ryan*  
 Position  
**District Production Manager**  
 Company  
**Aztec Oil & Gas Company**  
 Date  
**February 23, 1977**

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  
**April 23, 1975**  
 Registered Professional Engineer and/or Land Surveyor  
*Fred B. Kerr Jr.*  
**Fred B. Kerr Jr.**

Certificate No.  
**3950**



MEXICO OIL CONSERVATION COMMISSION  
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.

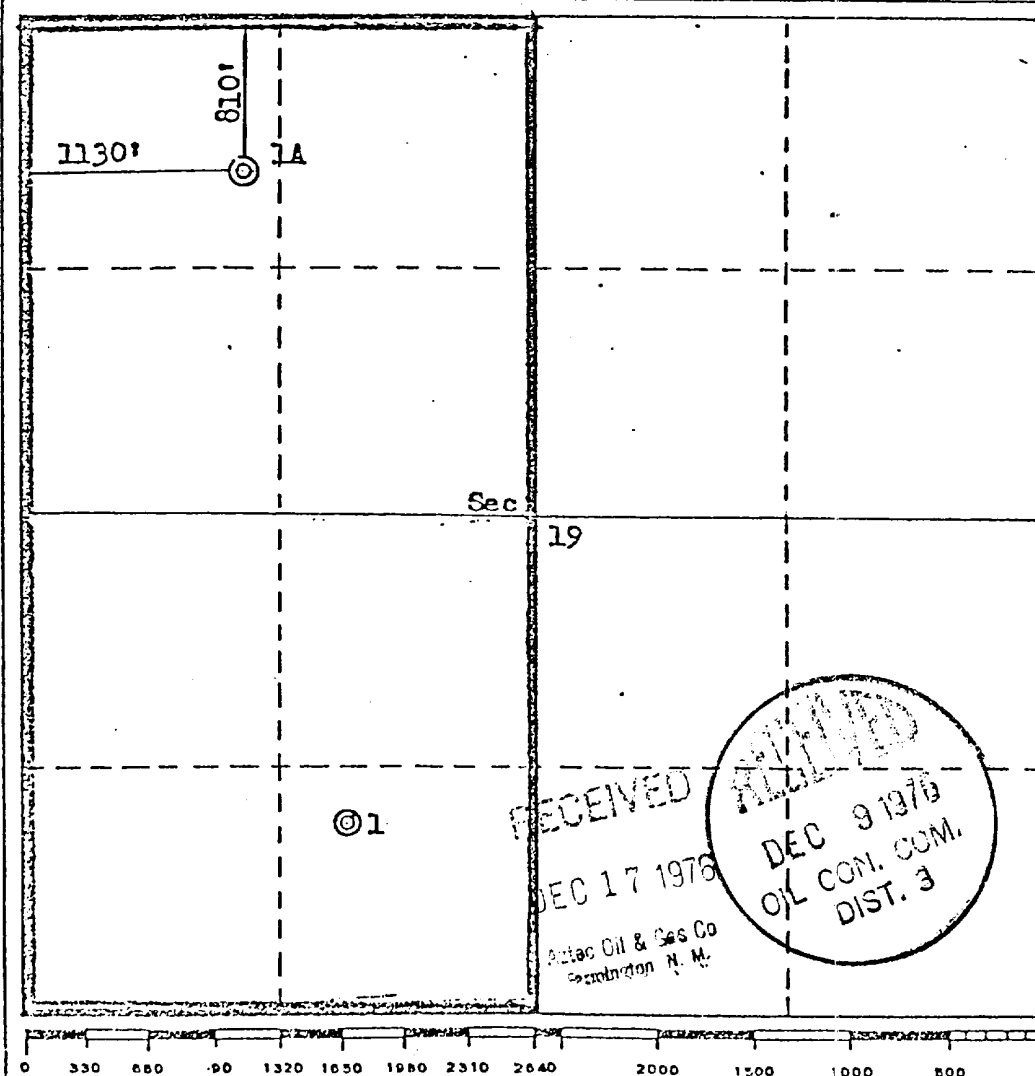
|                                                                                                                                |                                          |                        |                       |                                           |                       |
|--------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|------------------------|-----------------------|-------------------------------------------|-----------------------|
| Operator<br><b>Aztec Oil &amp; Gas Company</b>                                                                                 |                                          |                        | Lease<br><b>Johns</b> |                                           | Well No.<br><b>1A</b> |
| Unit Letter<br><b>D</b>                                                                                                        | Section<br><b>19</b>                     | Township<br><b>32N</b> | Range<br><b>11W</b>   | County<br><b>San Juan</b>                 |                       |
| Actual Footage Location of Wells:<br><b>810</b> feet from the <b>North</b> line and <b>1130</b> feet from the <b>West</b> line |                                          |                        |                       |                                           |                       |
| Ground Level Elev.<br><b>6534</b>                                                                                              | Producing Formation<br><b>Mesa Verde</b> | Pool<br><b>Blanco</b>  |                       | Dedicated Acreage:<br><b>311.40</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.



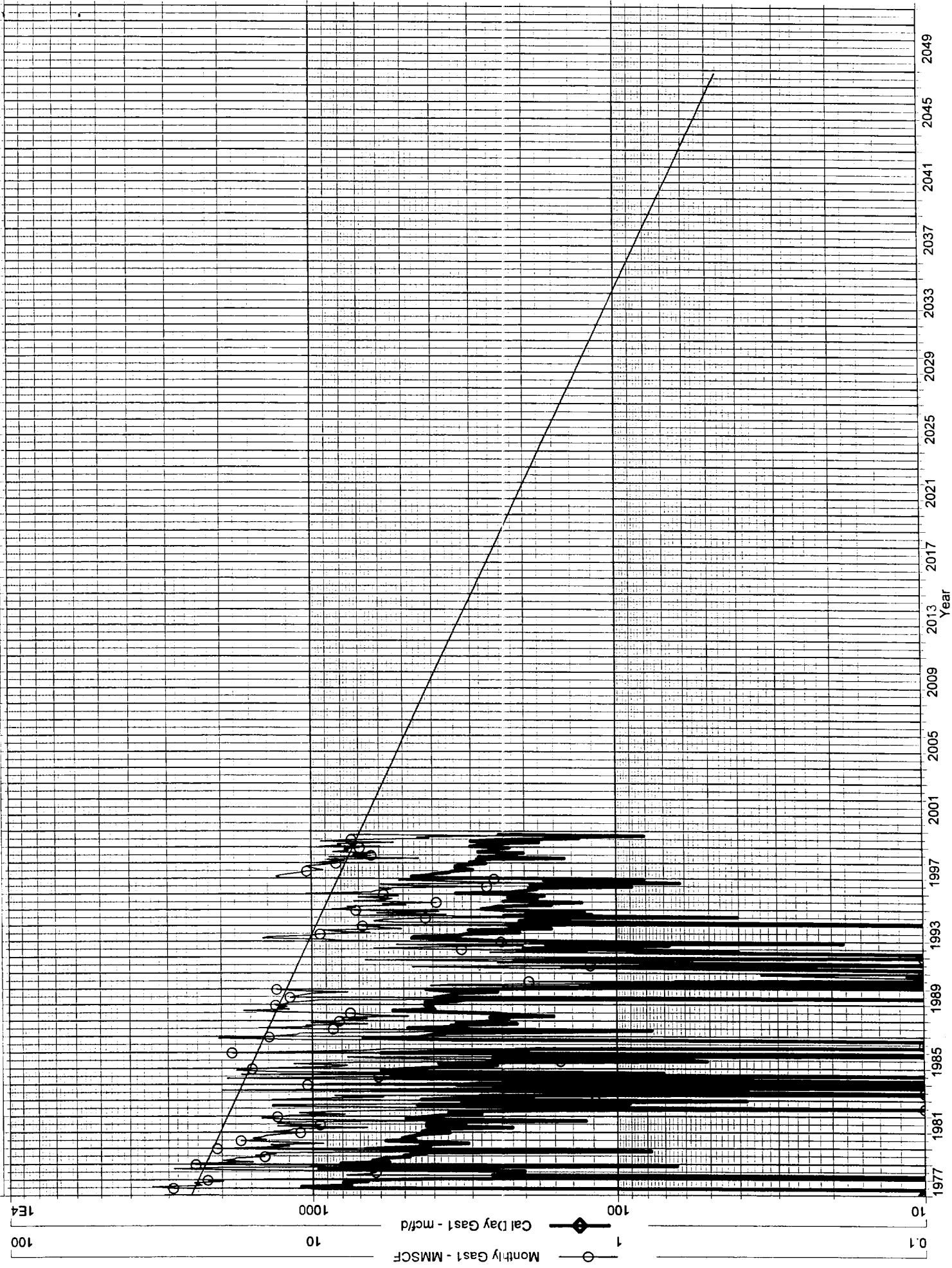
CERTIFICATION

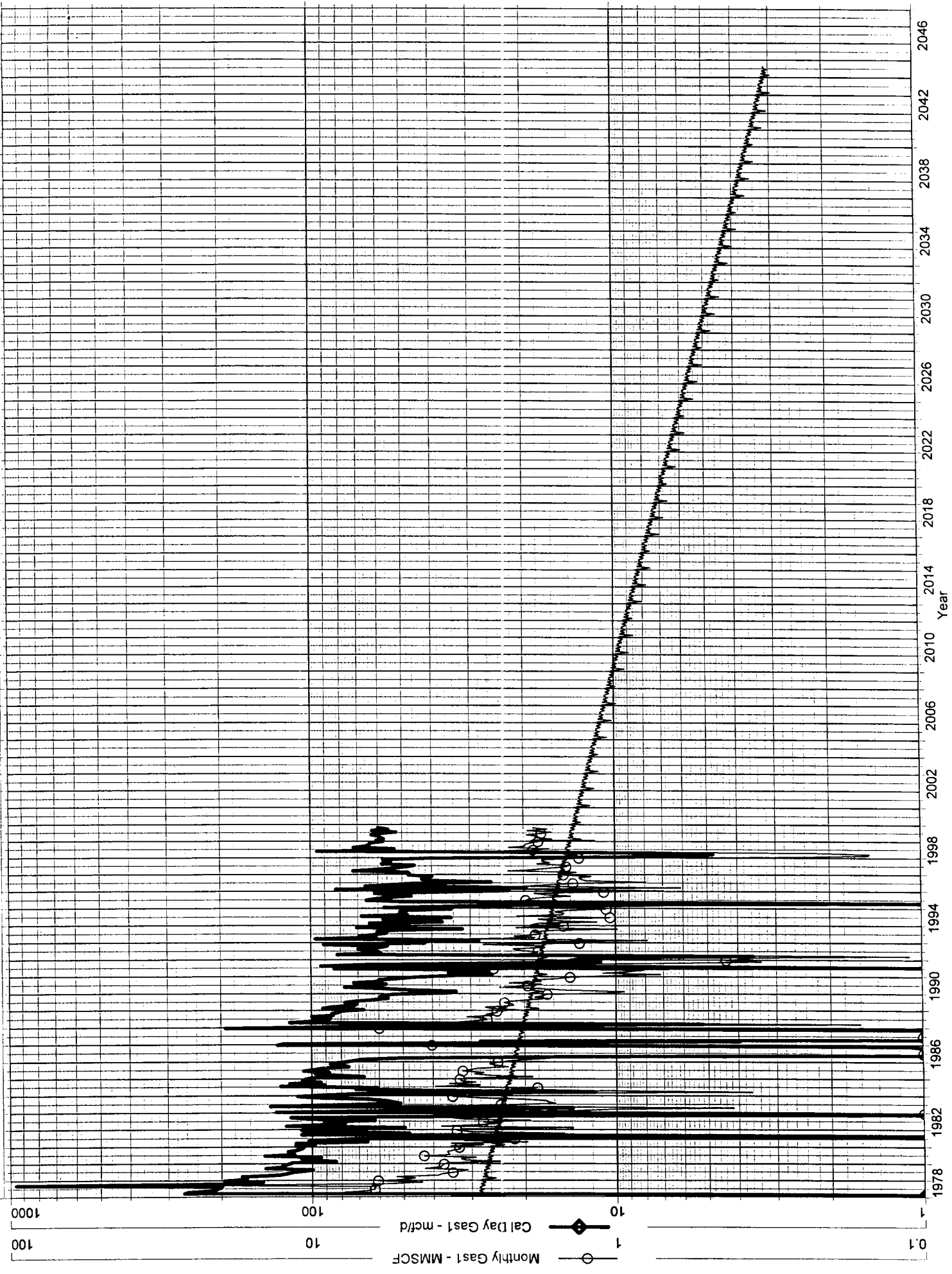
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name  
*L. C. Salmon*  
Position  
District Superintendent  
Company  
Aztec Oil & Gas Company  
Date  
May 1, 1975

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  
April 21, 1975  
Registered Professional Engineer and/or Land Surveyor  
*Fred B. Kerr Jr.*  
Certificate No.  
3950







**Johns #1A**  
**Bottom Hole Pressures**  
**Flowing and Static BHP**  
**Cullender and Smith Method**

Version 1.0 1/14/98

| <b>Mesaverde</b>               |        | <b>Pictured Cliffs</b>         |       |
|--------------------------------|--------|--------------------------------|-------|
| <b><u>MV-Current</u></b>       |        | <b><u>PC-Current</u></b>       |       |
| GAS GRAVITY                    | 0.677  | GAS GRAVITY                    | 0.677 |
| COND. OR MISC. (C/M)           | M      | COND. OR MISC. (C/M)           | M     |
| %N2                            | 0.19   | %N2                            | 0.23  |
| %CO2                           | 1.34   | %CO2                           | 0.89  |
| %H2S                           | 0      | %H2S                           | 0     |
| DIAMETER (IN)                  | 1.5    | DIAMETER (IN)                  | 7     |
| DEPTH (FT)                     | 5271   | DEPTH (FT)                     | 3162  |
| SURFACE TEMPERATURE (DEG F)    | 60     | SURFACE TEMPERATURE (DEG F)    | 60    |
| BOTTOMHOLE TEMPERATURE (DEG F) | 153    | BOTTOMHOLE TEMPERATURE (DEG F) | 116   |
| FLOWRATE (MCFPD)               | 0      | FLOWRATE (MCFPD)               | 0     |
| SURFACE PRESSURE (PSIA)        | 337    | SURFACE PRESSURE (PSIA)        | 587   |
| BOTTOMHOLE PRESSURE (PSIA)     | 381.9  | BOTTOMHOLE PRESSURE (PSIA)     | 637.0 |
| <b><u>MV-Original</u></b>      |        | <b><u>PC-Original</u></b>      |       |
| GAS GRAVITY                    | 0.677  | GAS GRAVITY                    | 0.677 |
| COND. OR MISC. (C/M)           | M      | COND. OR MISC. (C/M)           | M     |
| %N2                            | 0.19   | %N2                            | 0.23  |
| %CO2                           | 1.34   | %CO2                           | 0.89  |
| %H2S                           | 0      | %H2S                           | 0     |
| DIAMETER (IN)                  | 1.5    | DIAMETER (IN)                  | 7     |
| DEPTH (FT)                     | 5271   | DEPTH (FT)                     | 3162  |
| SURFACE TEMPERATURE (DEG F)    | 60     | SURFACE TEMPERATURE (DEG F)    | 60    |
| BOTTOMHOLE TEMPERATURE (DEG F) | 153    | BOTTOMHOLE TEMPERATURE (DEG F) | 116   |
| FLOWRATE (MCFPD)               | 0      | FLOWRATE (MCFPD)               | 0     |
| SURFACE PRESSURE (PSIA)        | 889    | SURFACE PRESSURE (PSIA)        | 783   |
| BOTTOMHOLE PRESSURE (PSIA)     | 1019.5 | BOTTOMHOLE PRESSURE (PSIA)     | 852.1 |

