



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**GARY E. JOHNSON**  
Governor  
**BETTY RIVERA**  
Cabinet Secretary

**Lori Wrotenberg**  
Director  
Oil Conservation Division

*COMMINGLING ORDER PC-1074*

Conoco Inc.  
PO Box 2197, WL3046  
Houston, Texas 77252

Attention: Ms. Yolanda Perez

The above named company is hereby authorized to surface commingle the following pools in the following well located in Section 13, Township 26 North, Range 4 West, NMPM, Rio Arriba County, New Mexico.

|                                                |                                   |
|------------------------------------------------|-----------------------------------|
| Jicarilla "A" Well No. 13                      | API No. 30-039-20395              |
| Basin-Dakota (Prorated Gas 71599),             | W/2 dedication (DHC-1334)         |
| Blanco-Mesaverde (Prorated Gas 72319),         | W/2 dedication (DHC-1334)         |
| Tapacito-Pictured Cliffs (Prorated Gas 85920), | NW/4 dedication (dual completion) |

Condensate, water, and gas allocation between the tubing and casing in this dual completion shall be accomplished through periodic testing and the subtraction method. Existing Division Order DHC-1334 allocates production between the two (2) tubing zones. The sales points for gas and condensate shall be located on this lease.

NOTE: This installation shall be installed and operated in accordance with the applicable provisions of Rule 303 of the Division Rules and Regulations and the Division "Manual for the Installation and Operation of Commingling Facilities." It is the responsibility of the producer to notify the transporter of this commingling authority.

FURTHER: The operator shall notify the supervisor of the Aztec district office prior to implementation of this commingling operation.

DONE at Santa Fe, New Mexico, on this 11th day of September 2002.

*Lori Wrotenberg* (wvj)  
LORI WROTENBERY,  
Division Director

LW/wvj  
cc: Oil Conservation Division- Aztec  
Bureau of Land Management -- Farmington

|                    |                         |                    |                     |                    |                      |
|--------------------|-------------------------|--------------------|---------------------|--------------------|----------------------|
| DATE <u>8/8/02</u> | SUSPENSE <u>8/20/02</u> | ENGINEER <u>WJ</u> | LOGGED IN <u>MV</u> | TYPE <u>4 MSAH</u> | APP NO. <u># 108</u> |
|--------------------|-------------------------|--------------------|---------------------|--------------------|----------------------|

ABOVE THIS LINE FOR DIVISION USE ONLY

## NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

1220 South St. Francis Drive, Santa Fe, NM 87505



### 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 \_\_\_\_\_

02 AUG - 8 PM 2:22  
 OIL CONSERVATION DIV

#### [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.

Yolanda Perez  
Print or Type Name

Yolanda Perez  
Signature

Sr. Regulatory Analyst  
Title

8/8/02  
Date

yolanda.perez@conoco.com  
e-mail Address



**Yolanda Perez**  
Sr. Regulatory Analyst  
San Juan Asset Team  
Exploration-Production USSA

**Conoco Inc.**  
P. O. Box 2197, DU 3084  
Houston, TX 77252-2197  
(281) 293-1613 fax (281) 293-5090

August 8, 2002

New Mexico Oil Conservation Division  
1220 So. St. Francis Drive  
Santa Fe, NM 87505

**RE: Application to surface commingle Conoco operated Jicarilla "A" Well No. 13  
API 30-039-20395, Section 13, T26N, R4W, Unit Ltr. E  
Rio Arriba County, New Mexico**

Gentlemen:

By way of this application, Conoco respectfully requests approval to surface commingle all zones currently completed in the above mentioned well. The "A" 13 is currently a dual completion, with Tapacito Pictured Cliffs in combination with downhole commingled Blanco Mesaverde and Basin Dakota. Working, net revenue, and royalty interests are identical for all producing horizons.

The following items are submitted in support of this application:

Exhibit A is a plat of the lease with the subject well identified.  
Exhibit B contains production volume reports of zones completed in the well.  
Exhibit C contains gas analysis reports for zones completed in the subject well.  
Exhibit D is a schematic of the facilities for subject well.  
Exhibit E is a wellbore diagram of the subject well. Completion information is included.  
Exhibit F is a copy of administrative order DHC-1334 for the Mesaverde and Dakota, as well as proposed allocation percentages for a surface commingled Pictured Cliffs, Mesaverde, and Dakota wellbore.

The Jicarilla "A" 13 was shut-in in October 2001 following a failed packer leakage test. At that time, only the Pictured Cliffs was producing. In February 2002, the "A" 13 was successfully worked over and production was restored from all three producing horizons. Note that since the February 2002 workover, only the downhole commingled Mesaverde and Dakota intervals have been producing to sales; the Pictured Cliffs has remained shut-in due to having only one meter on location. Pictured Cliffs production potential (~35 MCFPD) is insufficient to justify expenditures necessary to install an additional meter run and associated facilities at this location. In order to bring the Pictured Cliffs formation back online this year, Conoco will need to obtain approval to surface commingle Pictured Cliffs production with the downhole commingled, Mesaverde/Dakota flowstream.

The current gas production rate for the commingled Mesaverde/Dakota flowstream ranges from 190 to 210 MCFPD. Pictured Cliffs is expected to produce an additional 35 Mcfpd. Production allocation for the Pictured Cliffs will be determined by the subtraction method (surface commingled production rate of all three zones less the current production & forecast of the combined Mesaverde/Dakota flowstream). The Mesaverde and Dakota gas and oil is allocated based on the current allocation shown in order DHC-1334. Pictured Cliffs gas is dry, therefore, no oil will be allocated to this formation.

NOTE : The Jicarilla "A" 13 was previously approved for surface commingle with other Jicarilla A lease wells in order PLC-108-D. The proposed work to surface commingle Jicarilla "A" 13 with the other wells has not yet been completed.

If you have any questions or require any further information, please feel free to contact me at (281) 293-1613.

Sincerely,

Yolanda Perez  
Regulatory Analyst  
Lobo/San Juan Asset

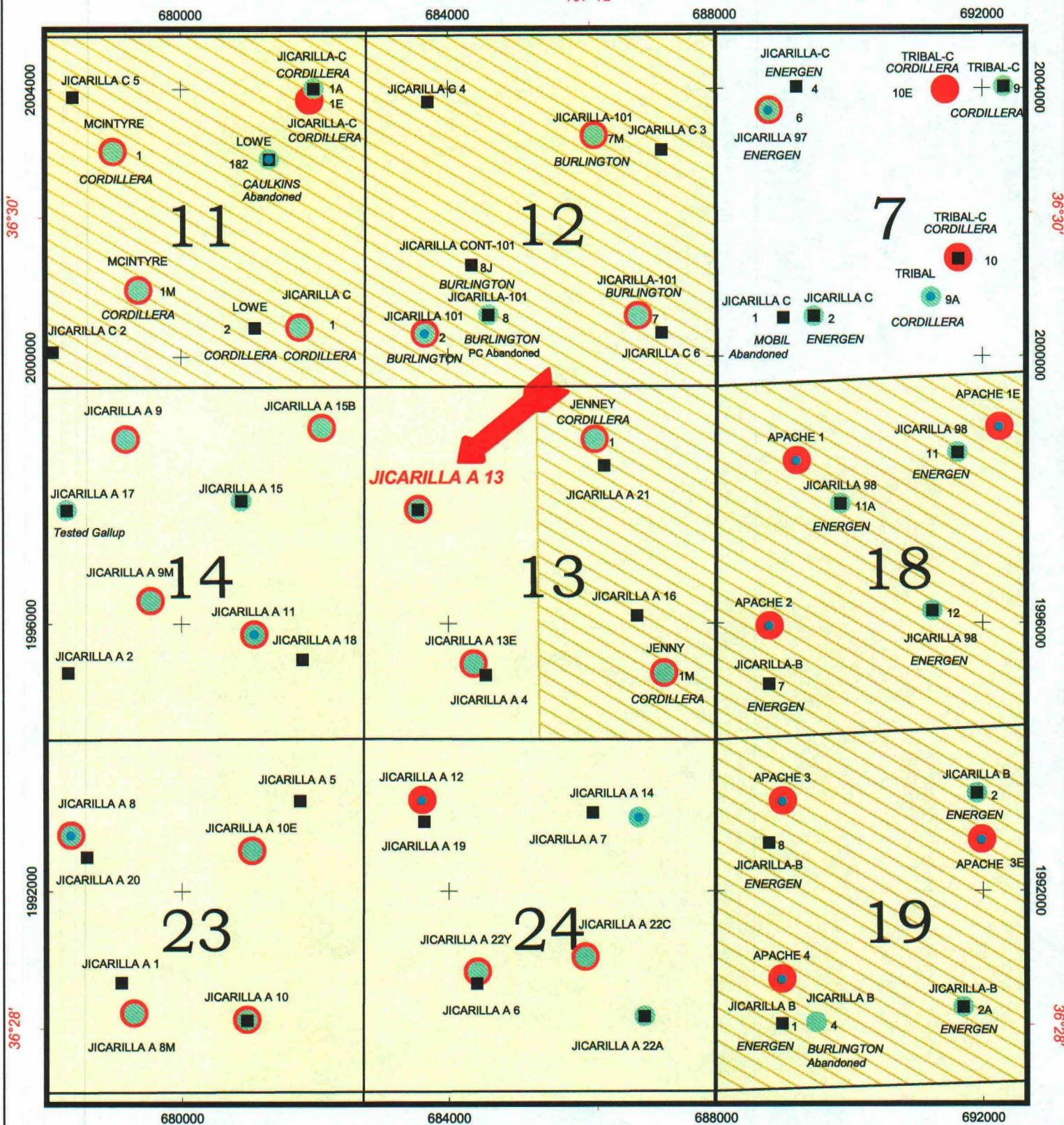
**CONOCO INC.  
JICARILLA A-13 SURFACE COMMINGLE**

**EXHIBIT A**  
**Lease Plat**



# T26N R4W Section 13

107°12'



- Gallup
- Pictured Cliffs
- Mesa Verde
- Dakota

- ▨ Conoco Partial Interest Leases
- ▨ Conoco Leases

2000 0 2000 Feet

Conoco operated unless otherwise noted.

(Burlington, Cordillera, & Energen)

**Pictured Cliffs to be surface commingled with DHC'd MV/DK.**



|                                      |                 |
|--------------------------------------|-----------------|
| <b>conoco</b>                        |                 |
| <b>San Juan Basin, N. M.</b>         |                 |
| <b>Jicarilla A 13</b>                |                 |
| <b>Surface Commingle Application</b> |                 |
| <b>1850' FNL &amp; 790' FWL</b>      |                 |
| Author: Angela Whitfield             | Date: 7-11-2002 |
| Compiled by:                         | Map of          |
| MD File:                             |                 |

**CONOCO INC.**  
**JICARILLA A-13 SURFACE COMMINGLE**

**EXHIBIT B**  
**Production Volume Reports**

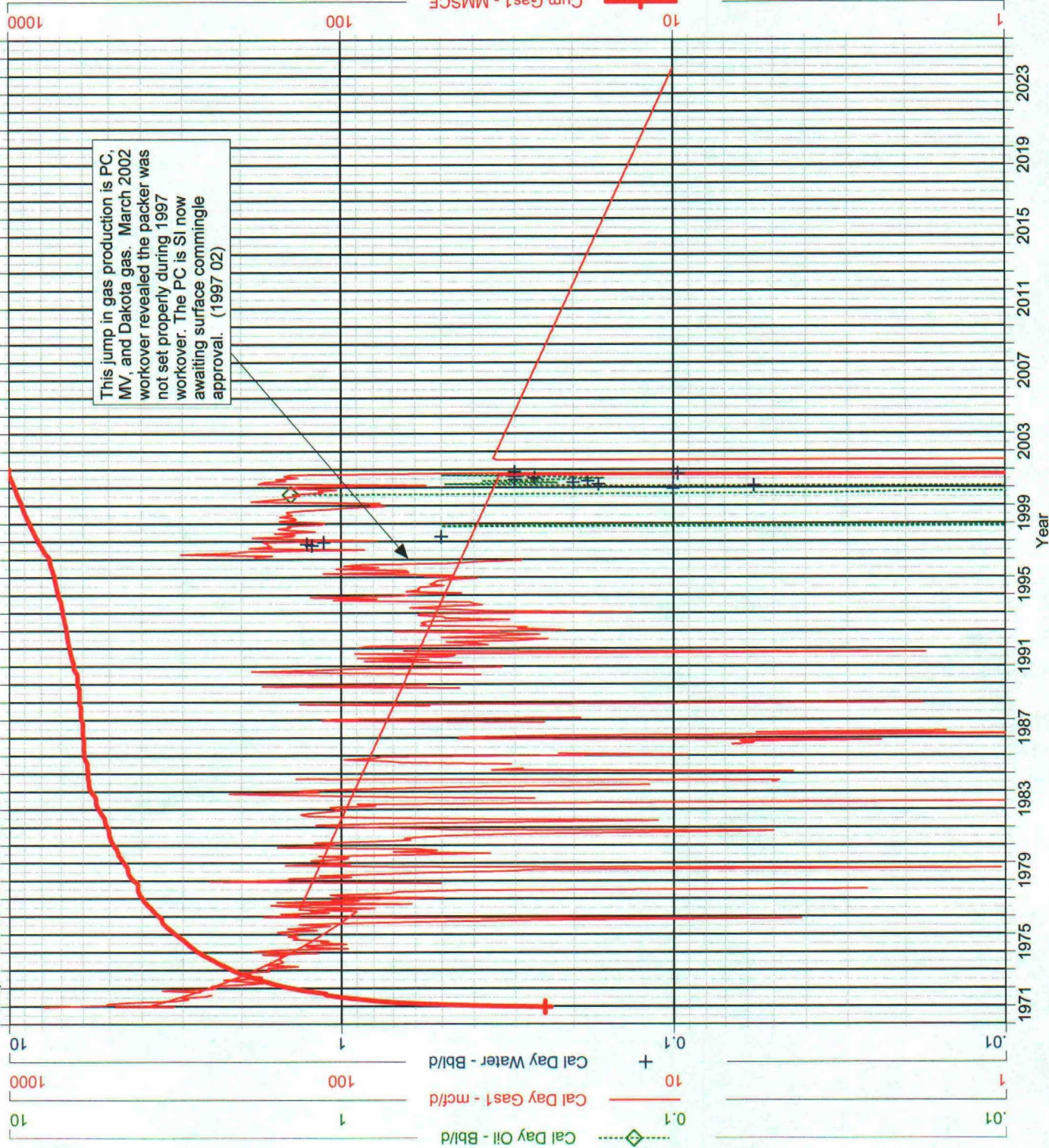


# JICARILLA A - 13\_PC (1884963) Data: Sep.1971-Jan.2002

Operator: CONOCO INC  
 Field: TAPACITO (PICTURED CLIFFS) PC  
 Zone: PICTURED CLIFFS  
 Type: Other  
 Group: Well::South Area Wells

No  
 Active  
 Forecast

Production Cums  
 Oil: 0.14207 MSTB  
 Gas: 997.452 MMSCF  
 Water: 0.198 MSTB  
 Cond: 0.306 MSTB



Cal Day Oil - Bbl/d

Cum: 0.14207 MSTB

Cal Day Gas1 - mcf/d

Cum: 997.452 MMSCF

Cal Day Gas FC 1 - mcf/d

versus time

Qi: 399.011 mcf/d, Dec, 1971

Qf: 10.0227 mcf/d, May, 2024

Di:(Hyperbolic) : 35.0795

n: 0.751295

RR: 159.76 MMSCF

EUR: 1157.21 MMSCF

Corr coeff: N/A

+ Cal Day Water - Bbl/d

Cum: 0.198 MSTB

+ Cum Gas1 - MMSCF

Cum: 0

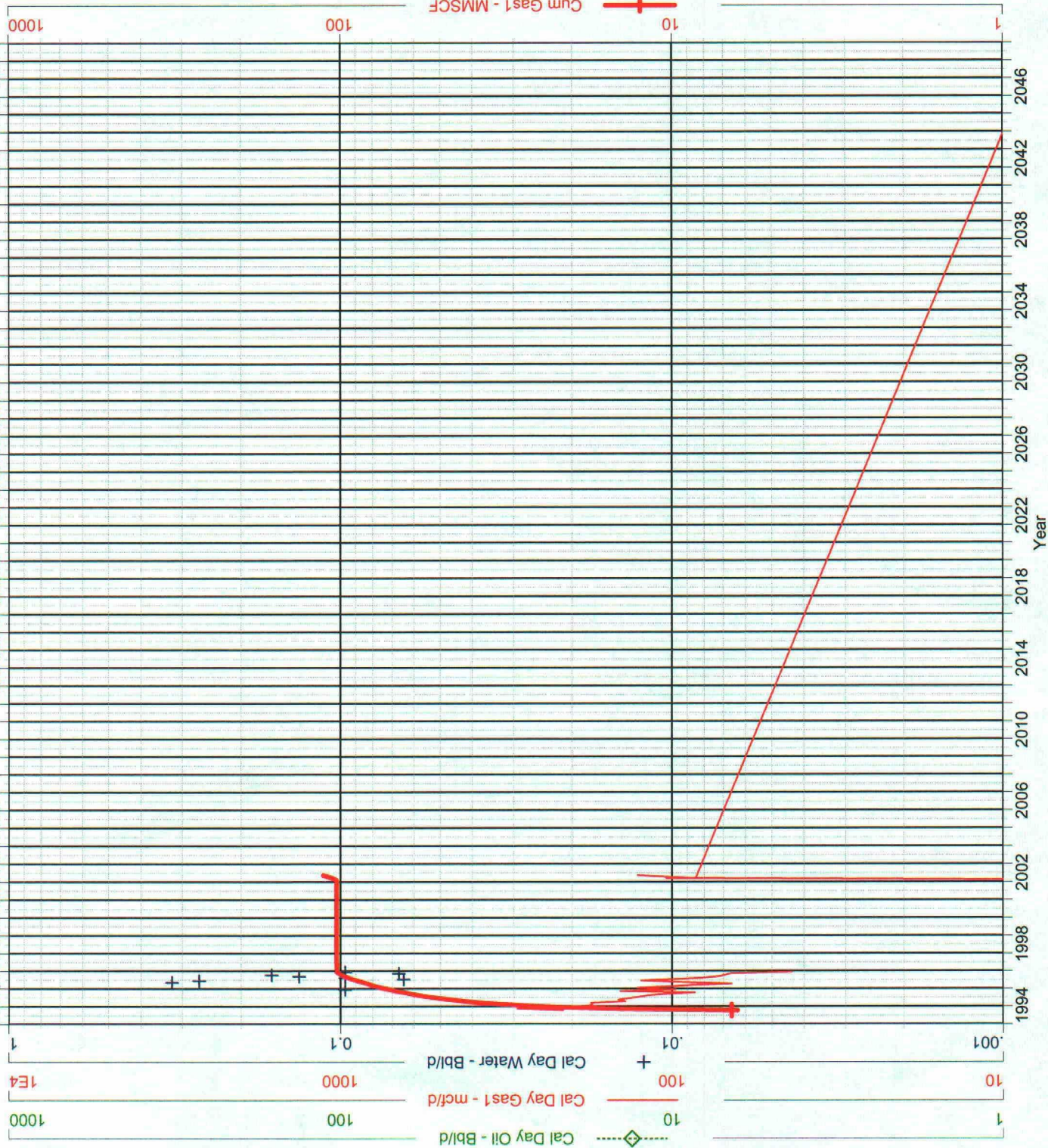


# JICARILLA A - 13\_MV (1884962) Data: Oct. 1994-May. 2002

Operator: CONOCO INC  
 Field: BLANCO (MESAVERDE) MV  
 Zone: MESAVERDE  
 Type: Gas  
 Group: Well::South Area Wells

Production Cums  
 Oil: 0.031 MSTB  
 Gas: 112.492 MMSCF  
 Water: 0.04 MSTB  
 Cond: 0.336 MSTB

Cal Day Gas FC 1 (Rate-Time)  
 qi: 85 mcf/d, Mar, 2002  
 qf: 9.00603 mcf/d, Dec, 2045  
 di(Exp): 5 CTD: 112.492 MMSCF  
 RR: 533.47 MMSCF Tot: 645.962 MMSCF



Cal Day Oil - Bbl/d

Cum: 0.031 MSTB

Cal Day Gas 1 - mcf/d

Cum: 112.492 MMSCF

Cal Day Gas FC 1 - mcf/d

versus time

Qi: 85 mcf/d, Mar, 2002

Qf: 9.00603 mcf/d, Dec, 2045

Di(Exponential) : 5

RR: 533.47 MMSCF

EUR: 645.962 MMSCF

Corr coeff: N/A

+ Cal Day Water - Bbl/d

Cum: 0.04 MSTB

+ Cum Gas 1 - MMSCF

Cum: 0

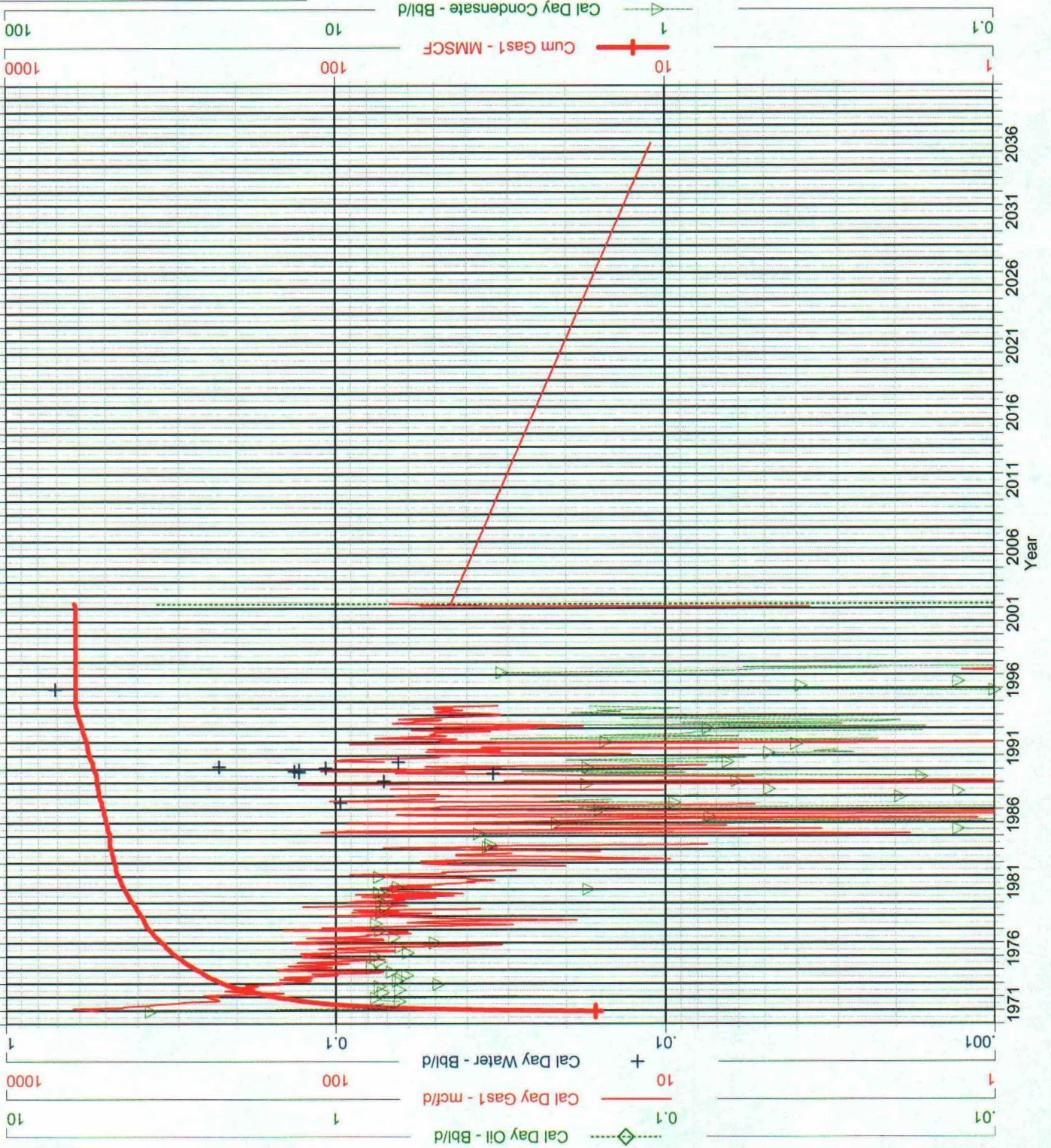


# JICARILLA A - 13\_DK (1884961) Data: Sep.1971-May.2002

Operator: CONOCO INC  
 Field: BASIN (DAKOTA) DK  
 Zone: DAKOTA  
 Type: Gas  
 Group: Well: South Area Wells

Cal Day Gas FC 1 (Rate-Time)  
 qi: 45 mcf/d, Mar, 2002  
 qf: 11.0022 mcf/d, Sep, 2036  
 di(Exp): 4 CTD: 619.618 MMSCF  
 RR: 300.122 MMSCF Tot: 919.74 MMSCF

Production Cums  
 Oil: 0.11 MSTB  
 Gas: 619.618 MMSCF  
 Water: 0.052 MSTB  
 Cond: 11.926 MSTB



# Well: JICARILLA A - 13\_PC

## Well Time Graph Report

| Date    | WI Cal<br>Day Oil | WI<br>Cal Day<br>Gas1 | WI<br>Cal Day<br>Water | WI Cal<br>Day Gas<br>FC 1 | WI Cum<br>Gas1 |
|---------|-------------------|-----------------------|------------------------|---------------------------|----------------|
|         | Bbl/d             | mcf/d                 | Bbl/d                  | mcf/d                     | MMSCF          |
| 1971 01 | ---               | ---                   | ---                    | ---                       | ---            |
| 1971 02 | ---               | ---                   | ---                    | ---                       | ---            |
| 1971 03 | ---               | ---                   | ---                    | ---                       | ---            |
| 1971 04 | ---               | ---                   | ---                    | ---                       | ---            |
| 1971 05 | ---               | ---                   | ---                    | ---                       | ---            |
| 1971 06 | ---               | ---                   | ---                    | ---                       | ---            |
| 1971 07 | ---               | ---                   | ---                    | ---                       | ---            |
| 1971 08 | ---               | ---                   | ---                    | ---                       | ---            |
| 1971 09 | ---               | ---                   | ---                    | ---                       | ---            |
| 1971 10 | ---               | ---                   | ---                    | ---                       | ---            |
| 1971 11 | ---               | ---                   | ---                    | ---                       | ---            |
| 1971 12 | ---               | 785.81                | ---                    | 390.73                    | 24.36          |
| 1972 01 | ---               | 512.61                | ---                    | 374.95                    | 40.25          |
| 1972 02 | ---               | 503.07                | ---                    | 360.25                    | 54.84          |
| 1972 03 | ---               | 431.58                | ---                    | 346.54                    | 68.22          |
| 1972 04 | ---               | 319.03                | ---                    | 333.71                    | 77.79          |
| 1972 05 | ---               | 288.16                | ---                    | 321.69                    | 86.72          |
| 1972 06 | ---               | 301.00                | ---                    | 310.41                    | 95.75          |
| 1972 07 | ---               | 256.13                | ---                    | 299.81                    | 103.69         |
| 1972 08 | ---               | 245.94                | ---                    | 289.82                    | 111.32         |
| 1972 09 | ---               | ---                   | ---                    | 280.40                    | 111.32         |
| 1972 10 | ---               | 265.29                | ---                    | 271.51                    | 119.54         |
| 1972 11 | ---               | 345.13                | ---                    | 263.09                    | 129.90         |
| 1972 12 | ---               | 244.32                | ---                    | 255.13                    | 137.47         |
| 1973 01 | ---               | 237.94                | ---                    | 247.58                    | 144.85         |
| 1973 02 | ---               | 245.39                | ---                    | 240.41                    | 151.72         |
| 1973 03 | ---               | 200.48                | ---                    | 233.59                    | 157.93         |
| 1973 04 | ---               | 170.67                | ---                    | 227.11                    | 163.05         |
| 1973 05 | ---               | 192.23                | ---                    | 220.93                    | 169.01         |
| 1973 06 | ---               | 225.50                | ---                    | 215.05                    | 175.78         |
| 1973 07 | ---               | 182.74                | ---                    | 209.43                    | 181.44         |
| 1973 08 | ---               | 173.29                | ---                    | 204.07                    | 186.81         |
| 1973 09 | ---               | 195.27                | ---                    | 198.94                    | 192.67         |
| 1973 10 | ---               | 187.55                | ---                    | 194.03                    | 198.48         |
| 1973 11 | ---               | 199.53                | ---                    | 189.33                    | 204.47         |
| 1973 12 | ---               | 164.61                | ---                    | 184.83                    | 209.57         |
| 1974 01 | ---               | 166.32                | ---                    | 180.51                    | 214.73         |
| 1974 02 | ---               | 166.14                | ---                    | 176.36                    | 219.38         |
| 1974 03 | ---               | 135.03                | ---                    | 172.38                    | 223.57         |
| 1974 04 | ---               | 170.03                | ---                    | 168.55                    | 228.67         |
| 1974 05 | ---               | 154.13                | ---                    | 164.87                    | 233.45         |
| 1974 06 | ---               | 149.67                | ---                    | 161.33                    | 237.94         |
| 1974 07 | ---               | 152.65                | ---                    | 157.92                    | 242.67         |
| 1974 08 | ---               | 154.55                | ---                    | 154.64                    | 247.46         |
| 1974 09 | ---               | 152.70                | ---                    | 151.47                    | 252.04         |
| 1974 10 | ---               | 147.61                | ---                    | 148.41                    | 256.62         |
| 1974 11 | ---               | 172.60                | ---                    | 145.46                    | 261.79         |
| 1974 12 | ---               | 117.45                | ---                    | 142.61                    | 265.43         |
| 1975 01 | ---               | 185.45                | ---                    | 139.86                    | 271.18         |
| 1975 02 | ---               | 152.54                | ---                    | 137.20                    | 275.45         |
| 1975 03 | ---               | 95.68                 | ---                    | 134.62                    | 278.42         |
| 1975 04 | ---               | 126.77                | ---                    | 132.13                    | 282.22         |
| 1975 05 | ---               | 128.16                | ---                    | 129.72                    | 286.20         |
| 1975 06 | ---               | 96.43                 | ---                    | 127.39                    | 289.09         |
| 1975 07 | ---               | 115.42                | ---                    | 125.13                    | 292.67         |



# Well: JICARILLA A - 13\_PC

## Well Time Graph Report

| Date    | WI Cal<br>Day Oil | WI<br>Cal Day<br>Gas1 | WI<br>Cal Day<br>Water | WI Cal<br>Day Gas<br>FC 1 | WI Cum<br>Gas1 |
|---------|-------------------|-----------------------|------------------------|---------------------------|----------------|
|         | Bbl/d             | mcf/d                 | Bbl/d                  | mcf/d                     | MMSCF          |
| 1975 08 | ---               | 109.10                | ---                    | 122.93                    | 296.05         |
| 1975 09 | ---               | 139.40                | ---                    | 120.81                    | 300.23         |
| 1975 10 | ---               | 135.61                | ---                    | 118.75                    | 304.44         |
| 1975 11 | ---               | 144.60                | ---                    | 116.74                    | 308.77         |
| 1975 12 | ---               | 134.19                | ---                    | 114.80                    | 312.93         |
| 1976 01 | ---               | 149.81                | ---                    | 112.91                    | 317.58         |
| 1976 02 | ---               | 155.45                | ---                    | 111.08                    | 322.09         |
| 1976 03 | ---               | 118.48                | ---                    | 109.30                    | 325.76         |
| 1976 04 | ---               | 145.10                | ---                    | 107.56                    | 330.11         |
| 1976 05 | ---               | 123.19                | ---                    | 105.88                    | 333.93         |
| 1976 06 | ---               | 108.20                | ---                    | 104.24                    | 337.18         |
| 1976 07 | ---               | 133.84                | ---                    | 102.64                    | 341.33         |
| 1976 08 | ---               | 99.23                 | ---                    | 101.09                    | 344.40         |
| 1976 09 | ---               | 57.73                 | ---                    | 99.58                     | 346.13         |
| 1976 10 | ---               | 25.71                 | ---                    | 98.11                     | 346.93         |
| 1976 11 | ---               | 4.13                  | ---                    | 96.67                     | 347.05         |
| 1976 12 | ---               | 170.77                | ---                    | 95.27                     | 352.35         |
| 1977 01 | ---               | 133.58                | ---                    | 93.91                     | 356.49         |
| 1977 02 | ---               | 152.39                | ---                    | 92.58                     | 360.76         |
| 1977 03 | ---               | 109.26                | ---                    | 91.28                     | 364.14         |
| 1977 04 | ---               | 124.23                | ---                    | 90.01                     | 367.87         |
| 1977 05 | ---               | 116.55                | ---                    | 133.98                    | 371.48         |
| 1977 06 | ---               | 79.63                 | ---                    | 133.34                    | 373.87         |
| 1977 07 | ---               | 142.42                | ---                    | 132.71                    | 378.29         |
| 1977 08 | ---               | 163.06                | ---                    | 132.08                    | 383.34         |
| 1977 09 | ---               | 61.43                 | ---                    | 131.45                    | 385.19         |
| 1977 10 | ---               | 156.23                | ---                    | 130.83                    | 390.03         |
| 1977 11 | ---               | 88.63                 | ---                    | 130.20                    | 392.69         |
| 1977 12 | ---               | 106.77                | ---                    | 129.58                    | 396.00         |
| 1978 01 | ---               | 49.06                 | ---                    | 128.97                    | 397.52         |
| 1978 02 | ---               | 99.68                 | ---                    | 128.35                    | 400.31         |
| 1978 03 | ---               | 108.13                | ---                    | 127.74                    | 403.66         |
| 1978 04 | ---               | 71.87                 | ---                    | 127.14                    | 405.82         |
| 1978 05 | ---               | 67.90                 | ---                    | 126.53                    | 407.92         |
| 1978 06 | ---               | 43.67                 | ---                    | 125.93                    | 409.23         |
| 1978 07 | ---               | 2.61                  | ---                    | 125.33                    | 409.31         |
| 1978 08 | ---               | ---                   | ---                    | 124.73                    | 409.31         |
| 1978 09 | ---               | ---                   | ---                    | 124.14                    | 409.31         |
| 1978 10 | ---               | ---                   | ---                    | 123.55                    | 409.31         |
| 1978 11 | ---               | 50.07                 | ---                    | 122.96                    | 410.82         |
| 1978 12 | ---               | 249.10                | ---                    | 122.38                    | 418.54         |
| 1979 01 | ---               | 145.10                | ---                    | 121.80                    | 423.04         |
| 1979 02 | ---               | 143.50                | ---                    | 121.22                    | 427.05         |
| 1979 03 | ---               | 93.48                 | ---                    | 120.64                    | 429.95         |
| 1979 04 | ---               | 116.30                | ---                    | 120.07                    | 433.44         |
| 1979 05 | ---               | 81.16                 | ---                    | 119.50                    | 435.96         |
| 1979 06 | ---               | 54.57                 | ---                    | 118.93                    | 437.59         |
| 1979 07 | ---               | 30.74                 | ---                    | 118.36                    | 438.55         |
| 1979 08 | ---               | 26.19                 | ---                    | 117.80                    | 439.36         |
| 1979 09 | ---               | 1.03                  | ---                    | 117.24                    | 439.39         |
| 1979 10 | ---               | 66.74                 | ---                    | 116.68                    | 441.46         |
| 1979 11 | ---               | 147.33                | ---                    | 116.13                    | 445.88         |
| 1979 12 | ---               | 94.06                 | ---                    | 115.57                    | 448.79         |
| 1980 01 | ---               | 113.71                | ---                    | 115.02                    | 452.32         |

# Well: JICARILLA A - 13\_PC

## Well Time Graph Report

| Date    | WI Cal<br>Day Oil | WI<br>Cal Day<br>Gas1 | WI<br>Cal Day<br>Water | WI Cal<br>Day Gas<br>FC 1 | WI Cum<br>Gas1 |
|---------|-------------------|-----------------------|------------------------|---------------------------|----------------|
|         | Bbl/d             | mcf/d                 | Bbl/d                  | mcf/d                     | MMSCF          |
| 1980 02 | ---               | 123.38                | ---                    | 114.48                    | 455.90         |
| 1980 03 | ---               | 98.29                 | ---                    | 113.93                    | 458.94         |
| 1980 04 | ---               | 95.27                 | ---                    | 113.39                    | 461.80         |
| 1980 05 | ---               | 117.06                | ---                    | 112.85                    | 465.43         |
| 1980 06 | ---               | 70.20                 | ---                    | 112.31                    | 467.54         |
| 1980 07 | ---               | 35.61                 | ---                    | 111.78                    | 468.64         |
| 1980 08 | ---               | 69.74                 | ---                    | 111.25                    | 470.80         |
| 1980 09 | ---               | 51.57                 | ---                    | 110.72                    | 472.35         |
| 1980 10 | ---               | 59.42                 | ---                    | 110.19                    | 474.19         |
| 1980 11 | ---               | 155.87                | ---                    | 109.67                    | 478.87         |
| 1980 12 | ---               | 112.97                | ---                    | 109.15                    | 482.37         |
| 1981 01 | ---               | 104.61                | ---                    | 108.63                    | 485.61         |
| 1981 02 | ---               | 120.39                | ---                    | 108.11                    | 488.98         |
| 1981 03 | ---               | 80.13                 | ---                    | 107.60                    | 491.47         |
| 1981 04 | ---               | 61.90                 | ---                    | 107.09                    | 493.33         |
| 1981 05 | ---               | 64.61                 | ---                    | 106.58                    | 495.33         |
| 1981 06 | ---               | 58.37                 | ---                    | 106.07                    | 497.08         |
| 1981 07 | ---               | 48.29                 | ---                    | 105.56                    | 498.58         |
| 1981 08 | ---               | 29.35                 | ---                    | 105.06                    | 499.49         |
| 1981 09 | ---               | 11.10                 | ---                    | 104.56                    | 499.82         |
| 1981 10 | ---               | 5.00                  | ---                    | 104.07                    | 499.98         |
| 1981 11 | ---               | 46.33                 | ---                    | 103.57                    | 501.37         |
| 1981 12 | ---               | 63.13                 | ---                    | 103.08                    | 503.32         |
| 1982 01 | ---               | 102.81                | ---                    | 102.59                    | 506.51         |
| 1982 02 | ---               | 119.32                | ---                    | 102.10                    | 509.85         |
| 1982 03 | ---               | 75.19                 | ---                    | 101.61                    | 512.18         |
| 1982 04 | ---               | 31.27                 | ---                    | 101.13                    | 513.12         |
| 1982 05 | ---               | 11.13                 | ---                    | 100.65                    | 513.46         |
| 1982 06 | ---               | 34.27                 | ---                    | 100.17                    | 514.49         |
| 1982 07 | ---               | 73.90                 | ---                    | 99.69                     | 516.78         |
| 1982 08 | ---               | 125.32                | ---                    | 99.22                     | 520.67         |
| 1982 09 | ---               | 132.43                | ---                    | 98.75                     | 524.64         |
| 1982 10 | ---               | 121.65                | ---                    | 98.28                     | 528.41         |
| 1982 11 | ---               | 109.47                | ---                    | 97.81                     | 531.70         |
| 1982 12 | ---               | 98.58                 | ---                    | 97.35                     | 534.75         |
| 1983 01 | ---               | 106.29                | ---                    | 96.88                     | 538.05         |
| 1983 02 | ---               | 107.86                | ---                    | 96.42                     | 541.07         |
| 1983 03 | ---               | 79.16                 | ---                    | 95.96                     | 543.52         |
| 1983 04 | ---               | 89.63                 | ---                    | 95.51                     | 546.21         |
| 1983 05 | ---               | 15.77                 | ---                    | 95.05                     | 546.70         |
| 1983 06 | ---               | 0.70                  | ---                    | 94.60                     | 546.72         |
| 1983 07 | ---               | ---                   | ---                    | 94.15                     | 546.72         |
| 1983 08 | ---               | 26.16                 | ---                    | 93.70                     | 547.53         |
| 1983 09 | ---               | 68.27                 | ---                    | 93.26                     | 549.58         |
| 1983 10 | ---               | 120.29                | ---                    | 92.81                     | 553.31         |
| 1983 11 | ---               | 216.70                | ---                    | 92.37                     | 559.81         |
| 1983 12 | ---               | 116.26                | ---                    | 91.93                     | 563.41         |
| 1984 01 | ---               | 133.42                | ---                    | 91.50                     | 567.55         |
| 1984 02 | ---               | 100.97                | ---                    | 91.06                     | 570.48         |
| 1984 03 | ---               | 61.48                 | ---                    | 90.63                     | 572.38         |
| 1984 04 | ---               | 36.33                 | ---                    | 90.20                     | 573.47         |
| 1984 05 | ---               | 11.81                 | ---                    | 89.77                     | 573.84         |
| 1984 06 | ---               | ---                   | ---                    | 89.34                     | 573.84         |
| 1984 07 | ---               | 5.03                  | ---                    | 88.92                     | 574.00         |
| 1984 08 | ---               | 4.81                  | ---                    | 88.49                     | 574.14         |



# Well: JICARILLA A - 13\_PC

## Well Time Graph Report

| Date    | WI Cal<br>Day Oil | WI<br>Cal Day<br>Gas1 | WI<br>Cal Day<br>Water | WI Cal<br>Day Gas<br>FC 1 | WI Cum<br>Gas1 |
|---------|-------------------|-----------------------|------------------------|---------------------------|----------------|
|         | Bbl/d             | mcf/d                 | Bbl/d                  | mcf/d                     | MMSCF          |
| 1984 09 | ---               | 136.73                | ---                    | 88.07                     | 578.25         |
| 1984 10 | ---               | ---                   | ---                    | 87.65                     | 578.25         |
| 1984 11 | ---               | ---                   | ---                    | 87.24                     | 578.25         |
| 1984 12 | ---               | ---                   | ---                    | 86.82                     | 578.25         |
| 1985 01 | ---               | ---                   | ---                    | 86.41                     | 578.25         |
| 1985 02 | ---               | 4.36                  | ---                    | 86.00                     | 578.37         |
| 1985 03 | ---               | 35.19                 | ---                    | 85.59                     | 579.46         |
| 1985 04 | ---               | 28.33                 | ---                    | 85.18                     | 580.31         |
| 1985 05 | ---               | ---                   | ---                    | 84.78                     | 580.31         |
| 1985 06 | ---               | ---                   | ---                    | 84.37                     | 580.31         |
| 1985 07 | ---               | 30.74                 | ---                    | 83.97                     | 581.26         |
| 1985 08 | ---               | 65.10                 | ---                    | 83.57                     | 583.28         |
| 1985 09 | ---               | 73.90                 | ---                    | 83.18                     | 585.50         |
| 1985 10 | ---               | 98.06                 | ---                    | 82.78                     | 588.54         |
| 1985 11 | ---               | 79.27                 | ---                    | 82.39                     | 590.91         |
| 1985 12 | ---               | 75.58                 | ---                    | 81.99                     | 593.26         |
| 1986 01 | ---               | 9.10                  | ---                    | 81.60                     | 593.54         |
| 1986 02 | ---               | 22.07                 | ---                    | 81.22                     | 594.16         |
| 1986 03 | ---               | ---                   | ---                    | 80.83                     | 594.16         |
| 1986 04 | ---               | 1.50                  | ---                    | 80.45                     | 594.20         |
| 1986 05 | ---               | ---                   | ---                    | 80.06                     | 594.20         |
| 1986 06 | ---               | ---                   | ---                    | 79.68                     | 594.20         |
| 1986 07 | ---               | ---                   | ---                    | 79.30                     | 594.20         |
| 1986 08 | ---               | 6.68                  | ---                    | 78.93                     | 594.41         |
| 1986 09 | ---               | 5.73                  | ---                    | 78.55                     | 594.58         |
| 1986 10 | ---               | 6.29                  | ---                    | 78.18                     | 594.78         |
| 1986 11 | ---               | 2.37                  | ---                    | 77.81                     | 594.85         |
| 1986 12 | ---               | 44.52                 | ---                    | 77.43                     | 596.23         |
| 1987 01 | ---               | 43.71                 | ---                    | 77.07                     | 597.58         |
| 1987 02 | ---               | 21.14                 | ---                    | 76.70                     | 598.17         |
| 1987 03 | ---               | 0.48                  | ---                    | 76.34                     | 598.19         |
| 1987 04 | ---               | 5.63                  | ---                    | 75.97                     | 598.36         |
| 1987 05 | ---               | 1.52                  | ---                    | 75.61                     | 598.41         |
| 1987 06 | ---               | ---                   | ---                    | 75.25                     | 598.41         |
| 1987 07 | ---               | ---                   | ---                    | 74.89                     | 598.41         |
| 1987 08 | ---               | ---                   | ---                    | 74.54                     | 598.41         |
| 1987 09 | ---               | 6.30                  | ---                    | 74.18                     | 598.59         |
| 1987 10 | ---               | ---                   | ---                    | 73.83                     | 598.59         |
| 1987 11 | ---               | 24.40                 | ---                    | 73.48                     | 599.33         |
| 1987 12 | ---               | 114.16                | ---                    | 73.13                     | 602.87         |
| 1988 01 | ---               | 105.90                | ---                    | 72.78                     | 606.15         |
| 1988 02 | ---               | 19.03                 | ---                    | 72.44                     | 606.70         |
| 1988 03 | ---               | ---                   | ---                    | 72.09                     | 606.70         |
| 1988 04 | ---               | ---                   | ---                    | 71.75                     | 606.70         |
| 1988 05 | ---               | ---                   | ---                    | 71.41                     | 606.70         |
| 1988 06 | ---               | ---                   | ---                    | 71.07                     | 606.70         |
| 1988 07 | ---               | ---                   | ---                    | 70.73                     | 606.70         |
| 1988 08 | ---               | ---                   | ---                    | 70.39                     | 606.70         |
| 1988 09 | ---               | ---                   | ---                    | 70.06                     | 606.70         |
| 1988 10 | ---               | 54.16                 | ---                    | 69.72                     | 608.38         |
| 1988 11 | ---               | 133.17                | ---                    | 69.39                     | 612.37         |
| 1988 12 | ---               | 1.77                  | ---                    | 69.06                     | 612.43         |
| 1989 01 | ---               | ---                   | ---                    | 68.73                     | 612.43         |
| 1989 02 | ---               | ---                   | ---                    | 68.41                     | 612.43         |

# Well: JICARILLA A - 13\_PC

## Well Time Graph Report

| Date    | WI Cal<br>Day Oil | WI<br>Cal Day<br>Gas1 | WI<br>Cal Day<br>Water | WI Cal<br>Day Gas<br>FC 1 | WI Cum<br>Gas1 |
|---------|-------------------|-----------------------|------------------------|---------------------------|----------------|
|         | Bbl/d             | mcf/d                 | Bbl/d                  | mcf/d                     | MMSCF          |
| 1989 03 | ---               | ---                   | ---                    | 68.08                     | 612.43         |
| 1989 04 | ---               | ---                   | ---                    | 67.76                     | 612.43         |
| 1989 05 | ---               | ---                   | ---                    | 67.44                     | 612.43         |
| 1989 06 | ---               | ---                   | ---                    | 67.12                     | 612.43         |
| 1989 07 | ---               | ---                   | ---                    | 66.80                     | 612.43         |
| 1989 08 | ---               | ---                   | ---                    | 66.48                     | 612.43         |
| 1989 09 | ---               | ---                   | ---                    | 66.16                     | 612.43         |
| 1989 10 | ---               | 44.00                 | ---                    | 65.85                     | 613.79         |
| 1989 11 | ---               | 172.67                | ---                    | 65.53                     | 618.97         |
| 1989 12 | ---               | 55.23                 | ---                    | 65.22                     | 620.69         |
| 1990 01 | ---               | ---                   | ---                    | 64.91                     | 620.69         |
| 1990 02 | ---               | ---                   | ---                    | 64.60                     | 620.69         |
| 1990 03 | ---               | ---                   | ---                    | 64.30                     | 620.69         |
| 1990 04 | ---               | ---                   | ---                    | 63.99                     | 620.69         |
| 1990 05 | ---               | ---                   | ---                    | 63.69                     | 620.69         |
| 1990 06 | ---               | ---                   | ---                    | 63.38                     | 620.69         |
| 1990 07 | ---               | 37.94                 | ---                    | 63.08                     | 621.86         |
| 1990 08 | ---               | 101.55                | ---                    | 62.78                     | 625.01         |
| 1990 09 | ---               | 185.63                | ---                    | 62.48                     | 630.58         |
| 1990 10 | ---               | 116.58                | ---                    | 62.19                     | 634.19         |
| 1990 11 | ---               | 92.30                 | ---                    | 61.89                     | 636.96         |
| 1990 12 | ---               | 32.74                 | ---                    | 61.60                     | 637.98         |
| 1991 01 | ---               | ---                   | ---                    | 61.30                     | 637.98         |
| 1991 02 | ---               | ---                   | ---                    | 61.01                     | 637.98         |
| 1991 03 | ---               | 43.32                 | ---                    | 60.72                     | 639.32         |
| 1991 04 | ---               | 84.97                 | ---                    | 60.43                     | 641.87         |
| 1991 05 | ---               | 54.42                 | ---                    | 60.15                     | 643.56         |
| 1991 06 | ---               | 89.17                 | ---                    | 59.86                     | 646.23         |
| 1991 07 | ---               | 47.77                 | ---                    | 59.57                     | 647.71         |
| 1991 08 | ---               | 45.32                 | ---                    | 59.29                     | 649.12         |
| 1991 09 | ---               | 90.97                 | ---                    | 59.01                     | 651.85         |
| 1991 10 | ---               | 1.74                  | ---                    | 58.73                     | 651.90         |
| 1991 11 | ---               | 64.83                 | ---                    | 58.45                     | 653.85         |
| 1991 12 | ---               | ---                   | ---                    | 58.17                     | 653.85         |
| 1992 01 | ---               | 88.45                 | ---                    | 57.89                     | 656.59         |
| 1992 02 | ---               | 82.79                 | ---                    | 57.62                     | 658.99         |
| 1992 03 | ---               | 36.10                 | ---                    | 57.35                     | 660.11         |
| 1992 04 | ---               | 38.97                 | ---                    | 57.07                     | 661.28         |
| 1992 05 | ---               | 48.23                 | ---                    | 56.80                     | 662.77         |
| 1992 06 | ---               | 29.47                 | ---                    | 56.53                     | 663.66         |
| 1992 07 | ---               | 23.81                 | ---                    | 56.26                     | 664.39         |
| 1992 08 | ---               | 49.84                 | ---                    | 55.99                     | 665.94         |
| 1992 09 | ---               | 34.80                 | ---                    | 55.73                     | 666.98         |
| 1992 10 | ---               | 25.23                 | ---                    | 55.46                     | 667.76         |
| 1992 11 | ---               | 34.10                 | ---                    | 55.20                     | 668.79         |
| 1992 12 | ---               | 69.26                 | ---                    | 54.94                     | 670.93         |
| 1993 01 | ---               | 21.13                 | ---                    | 54.68                     | 671.59         |
| 1993 02 | ---               | 29.32                 | ---                    | 54.42                     | 672.41         |
| 1993 03 | ---               | 27.55                 | ---                    | 54.16                     | 673.26         |
| 1993 04 | ---               | 57.57                 | ---                    | 53.90                     | 674.99         |
| 1993 05 | ---               | 55.58                 | ---                    | 53.64                     | 676.71         |
| 1993 06 | ---               | 57.33                 | ---                    | 53.39                     | 678.43         |
| 1993 07 | ---               | 54.39                 | ---                    | 53.13                     | 680.12         |
| 1993 08 | ---               | 31.10                 | ---                    | 52.88                     | 681.08         |
| 1993 09 | ---               | 48.50                 | ---                    | 52.63                     | 682.54         |

# Well: JICARILLA A - 13\_PC

## Well Time Graph Report

| Date    | WI Cal<br>Day Oil | WI<br>Cal Day<br>Gas1 | WI<br>Cal Day<br>Water | WI Cal<br>Day Gas<br>FC 1 | WI Cum<br>Gas1 |
|---------|-------------------|-----------------------|------------------------|---------------------------|----------------|
|         | Bbl/d             | mcf/d                 | Bbl/d                  | mcf/d                     | MMSCF          |
| 1993 10 | ---               | 49.13                 | ---                    | 52.38                     | 684.06         |
| 1993 11 | ---               | 58.47                 | ---                    | 52.13                     | 685.82         |
| 1993 12 | ---               | 58.10                 | ---                    | 51.88                     | 687.62         |
| 1994 01 | ---               | 13.26                 | ---                    | 51.64                     | 688.03         |
| 1994 02 | ---               | 36.54                 | ---                    | 51.39                     | 689.05         |
| 1994 03 | ---               | 47.06                 | ---                    | 51.15                     | 690.51         |
| 1994 04 | ---               | 61.90                 | ---                    | 50.90                     | 692.37         |
| 1994 05 | ---               | 49.71                 | ---                    | 50.66                     | 693.91         |
| 1994 06 | ---               | 37.53                 | ---                    | 50.42                     | 695.03         |
| 1994 07 | ---               | 39.74                 | ---                    | 50.18                     | 696.27         |
| 1994 08 | ---               | 41.00                 | ---                    | 49.94                     | 697.54         |
| 1994 09 | ---               | 105.47                | ---                    | 49.70                     | 700.70         |
| 1994 10 | ---               | 78.19                 | ---                    | 49.47                     | 703.13         |
| 1994 11 | ---               | 123.60                | ---                    | 49.23                     | 706.83         |
| 1994 12 | ---               | 67.84                 | ---                    | 49.00                     | 708.94         |
| 1995 01 | ---               | 60.35                 | ---                    | 48.76                     | 710.81         |
| 1995 02 | ---               | 43.43                 | ---                    | 48.53                     | 712.02         |
| 1995 03 | ---               | 63.58                 | ---                    | 48.30                     | 713.99         |
| 1995 04 | ---               | 58.13                 | ---                    | 48.07                     | 715.74         |
| 1995 05 | ---               | 58.58                 | ---                    | 47.84                     | 717.55         |
| 1995 06 | ---               | 57.77                 | ---                    | 47.62                     | 719.29         |
| 1995 07 | ---               | 48.97                 | ---                    | 47.39                     | 720.80         |
| 1995 08 | ---               | 53.87                 | ---                    | 47.16                     | 722.47         |
| 1995 09 | ---               | 52.33                 | ---                    | 46.94                     | 724.04         |
| 1995 10 | ---               | 51.52                 | ---                    | 46.72                     | 725.64         |
| 1995 11 | ---               | 47.30                 | ---                    | 46.49                     | 727.06         |
| 1995 12 | ---               | 38.74                 | ---                    | 46.27                     | 728.26         |
| 1996 01 | ---               | 56.06                 | ---                    | 46.05                     | 730.00         |
| 1996 02 | ---               | 45.66                 | ---                    | 45.83                     | 731.32         |
| 1996 03 | ---               | 112.87                | ---                    | 45.62                     | 734.82         |
| 1996 04 | ---               | 62.53                 | ---                    | 45.40                     | 736.70         |
| 1996 05 | ---               | 63.84                 | ---                    | 45.18                     | 738.68         |
| 1996 06 | ---               | 103.23                | ---                    | 44.97                     | 741.77         |
| 1996 07 | ---               | 77.13                 | ---                    | 44.75                     | 744.17         |
| 1996 08 | ---               | 97.87                 | ---                    | 44.54                     | 747.20         |
| 1996 09 | ---               | 86.53                 | ---                    | 44.33                     | 749.80         |
| 1996 10 | ---               | 46.29                 | ---                    | 44.12                     | 751.23         |
| 1996 11 | ---               | 38.63                 | ---                    | 43.91                     | 752.39         |
| 1996 12 | ---               | 28.55                 | ---                    | 43.70                     | 753.27         |
| 1997 01 | ---               | ---                   | ---                    | 43.49                     | 753.27         |
| 1997 02 | ---               | 181.18                | ---                    | 43.28                     | 758.35         |
| 1997 03 | ---               | 160.77                | ---                    | 43.08                     | 763.33         |
| 1997 04 | ---               | 302.40                | ---                    | 42.87                     | 772.40         |
| 1997 05 | ---               | 212.81                | ---                    | 42.67                     | 779.00         |
| 1997 06 | ---               | 189.47                | ---                    | 42.47                     | 784.68         |
| 1997 07 | ---               | 85.06                 | ---                    | 42.27                     | 787.32         |
| 1997 08 | ---               | 188.52                | ---                    | 42.06                     | 793.17         |
| 1997 09 | ---               | 161.90                | ---                    | 41.86                     | 798.02         |
| 1997 10 | ---               | 165.45                | 1.23                   | 41.67                     | 803.15         |
| 1997 11 | ---               | 166.63                | 1.27                   | 41.47                     | 808.15         |
| 1997 12 | ---               | 171.29                | 1.13                   | 41.27                     | 813.46         |
| 1998 01 | ---               | 77.81                 | ---                    | 41.07                     | 815.87         |
| 1998 02 | ---               | 138.93                | ---                    | 40.88                     | 819.76         |
| 1998 03 | ---               | 184.65                | ---                    | 40.68                     | 825.49         |



# Well: JICARILLA A - 13\_PC

## Well Time Graph Report

| Date    | WI Cal<br>Day Oil | WI<br>Cal Day<br>Gas1 | WI<br>Cal Day<br>Water | WI Cal<br>Day Gas<br>FC 1 | WI Cum<br>Gas1 |
|---------|-------------------|-----------------------|------------------------|---------------------------|----------------|
|         | Bbl/d             | mcf/d                 | Bbl/d                  | mcf/d                     | MMSCF          |
| 1998 04 | ---               | 139.53                | 0.50                   | 40.49                     | 829.67         |
| 1998 05 | 0.00              | 137.61                | 0.00                   | 40.30                     | 833.94         |
| 1998 06 | 0.00              | 158.07                | 0.00                   | 40.11                     | 838.68         |
| 1998 07 | 0.00              | 119.55                | 0.00                   | 39.92                     | 842.39         |
| 1998 08 | 0.00              | 141.68                | 0.00                   | 39.73                     | 846.78         |
| 1998 09 | 0.00              | 154.17                | 0.00                   | 39.54                     | 851.40         |
| 1998 10 | 0.00              | 141.87                | 0.00                   | 39.35                     | 855.80         |
| 1998 11 | 0.50              | 144.50                | 0.00                   | 39.16                     | 860.14         |
| 1998 12 | 0.26              | 114.10                | 0.00                   | 38.97                     | 863.67         |
| 1999 01 | 0.00              | 112.19                | 0.00                   | 38.79                     | 867.15         |
| 1999 02 | 0.00              | 152.93                | 0.00                   | 38.61                     | 871.43         |
| 1999 03 | 0.00              | 136.35                | 0.00                   | 38.42                     | 875.66         |
| 1999 04 | ---               | 138.10                | ---                    | 38.24                     | 879.80         |
| 1999 05 | ---               | 152.61                | ---                    | 38.06                     | 884.54         |
| 1999 06 | ---               | 140.23                | ---                    | 37.88                     | 888.74         |
| 1999 07 | ---               | 143.97                | ---                    | 37.70                     | 893.21         |
| 1999 08 | ---               | 145.58                | ---                    | 37.52                     | 897.72         |
| 1999 09 | ---               | 130.33                | ---                    | 37.34                     | 901.63         |
| 1999 10 | ---               | 108.58                | ---                    | 37.16                     | 904.99         |
| 1999 11 | ---               | 95.80                 | ---                    | 36.98                     | 907.87         |
| 1999 12 | ---               | 73.87                 | ---                    | 36.81                     | 910.16         |
| 2000 01 | ---               | 81.39                 | ---                    | 36.63                     | 912.68         |
| 2000 02 | ---               | 76.38                 | ---                    | 36.46                     | 914.90         |
| 2000 03 | ---               | 185.61                | ---                    | 36.29                     | 920.65         |
| 2000 04 | ---               | 166.30                | ---                    | 36.11                     | 925.64         |
| 2000 05 | ---               | 146.81                | ---                    | 35.94                     | 930.19         |
| 2000 06 | ---               | 147.40                | ---                    | 35.77                     | 934.61         |
| 2000 07 | ---               | 132.77                | ---                    | 35.60                     | 938.73         |
| 2000 08 | 1.42              | 137.61                | 0.00                   | 35.43                     | 942.99         |
| 2000 09 | 0.03              | 113.47                | 0.00                   | 35.26                     | 946.40         |
| 2000 10 | 0.02              | 116.61                | 0.00                   | 35.09                     | 950.01         |
| 2000 11 | 0.00              | 103.13                | 0.00                   | 34.93                     | 953.11         |
| 2000 12 | 0.00              | 144.06                | 0.10                   | 34.76                     | 957.57         |
| 2001 01 | 0.00              | 133.26                | 0.10                   | 34.60                     | 961.70         |
| 2001 02 | 0.18              | 55.50                 | 0.06                   | 34.43                     | 963.26         |
| 2001 03 | 0.49              | 176.90                | 0.17                   | 34.27                     | 968.74         |
| 2001 04 | 0.22              | 169.97                | 0.20                   | 34.10                     | 973.84         |
| 2001 05 | 0.38              | 146.87                | 0.18                   | 33.94                     | 978.39         |
| 2001 06 | 0.23              | 156.57                | 0.30                   | 33.78                     | 983.09         |
| 2001 07 | 0.16              | 135.16                | 0.26                   | 33.62                     | 987.28         |
| 2001 08 | 0.23              | 148.16                | 0.30                   | 33.46                     | 991.87         |
| 2001 09 | 0.50              | 142.20                | 0.30                   | 33.30                     | 996.14         |
| 2001 10 | 0.03              | 42.06                 | 0.10                   | 0.00                      | 997.44         |
| 2001 11 | 0.00              | 0.00                  | 0.30                   | 0.00                      | 997.44         |
| 2001 12 | ---               | ---                   | ---                    | 0.00                      | 997.44         |
| 2002 01 | 0.00              | 0.26                  | 0.00                   | 0.00                      | 997.45         |
| 2002 02 | ---               | ---                   | ---                    | 0.00                      | ---            |
| 2002 03 | ---               | ---                   | ---                    | 0.00                      | ---            |
| 2002 04 | ---               | ---                   | ---                    | 0.00                      | ---            |
| 2002 05 | ---               | ---                   | ---                    | 0.00                      | ---            |
| 2002 06 | ---               | ---                   | ---                    | 0.00                      | ---            |
| 2002 07 | ---               | ---                   | ---                    | 33.86                     | ---            |
| 2002 08 | ---               | ---                   | ---                    | 34.78                     | ---            |
| 2002 09 | ---               | ---                   | ---                    | 34.61                     | ---            |
| 2002 10 | ---               | ---                   | ---                    | 34.45                     | ---            |

# Well: JICARILLA A - 13\_PC

## Well Time Graph Report

| Date    | WI Cal<br>Day Oil | WI<br>Cal Day<br>Gas1 | WI<br>Cal Day<br>Water | WI Cal<br>Day Gas<br>FC 1 | WI Cum<br>Gas1 |
|---------|-------------------|-----------------------|------------------------|---------------------------|----------------|
|         | Bbl/d             | mcf/d                 | Bbl/d                  | mcf/d                     | MMSCF          |
| 2002 11 | ---               | ---                   | ---                    | 34.28                     | ---            |
| 2002 12 | ---               | ---                   | ---                    | 34.12                     | ---            |
| 2003 01 | ---               | ---                   | ---                    | 33.96                     | ---            |
| 2003 02 | ---               | ---                   | ---                    | 33.80                     | ---            |
| 2003 03 | ---               | ---                   | ---                    | 33.64                     | ---            |
| 2003 04 | ---               | ---                   | ---                    | 33.48                     | ---            |
| 2003 05 | ---               | ---                   | ---                    | 33.32                     | ---            |
| 2003 06 | ---               | ---                   | ---                    | 33.16                     | ---            |
| 2003 07 | ---               | ---                   | ---                    | 33.00                     | ---            |
| 2003 08 | ---               | ---                   | ---                    | 32.84                     | ---            |
| 2003 09 | ---               | ---                   | ---                    | 32.69                     | ---            |
| 2003 10 | ---               | ---                   | ---                    | 32.53                     | ---            |
| 2003 11 | ---               | ---                   | ---                    | 32.38                     | ---            |
| 2003 12 | ---               | ---                   | ---                    | 32.22                     | ---            |
| 2004 01 | ---               | ---                   | ---                    | 32.07                     | ---            |
| 2004 02 | ---               | ---                   | ---                    | 31.92                     | ---            |
| 2004 03 | ---               | ---                   | ---                    | 31.77                     | ---            |
| 2004 04 | ---               | ---                   | ---                    | 31.61                     | ---            |
| 2004 05 | ---               | ---                   | ---                    | 31.46                     | ---            |
| 2004 06 | ---               | ---                   | ---                    | 31.31                     | ---            |
| 2004 07 | ---               | ---                   | ---                    | 31.17                     | ---            |
| 2004 08 | ---               | ---                   | ---                    | 31.02                     | ---            |
| 2004 09 | ---               | ---                   | ---                    | 30.87                     | ---            |
| 2004 10 | ---               | ---                   | ---                    | 30.72                     | ---            |
| 2004 11 | ---               | ---                   | ---                    | 30.58                     | ---            |
| 2004 12 | ---               | ---                   | ---                    | 30.43                     | ---            |
| 2005 01 | ---               | ---                   | ---                    | 30.29                     | ---            |
| 2005 02 | ---               | ---                   | ---                    | 30.14                     | ---            |
| 2005 03 | ---               | ---                   | ---                    | 30.00                     | ---            |
| 2005 04 | ---               | ---                   | ---                    | 29.86                     | ---            |
| 2005 05 | ---               | ---                   | ---                    | 29.71                     | ---            |
| 2005 06 | ---               | ---                   | ---                    | 29.57                     | ---            |
| 2005 07 | ---               | ---                   | ---                    | 29.43                     | ---            |
| 2005 08 | ---               | ---                   | ---                    | 29.29                     | ---            |
| 2005 09 | ---               | ---                   | ---                    | 29.15                     | ---            |
| 2005 10 | ---               | ---                   | ---                    | 29.01                     | ---            |
| 2005 11 | ---               | ---                   | ---                    | 28.88                     | ---            |
| 2005 12 | ---               | ---                   | ---                    | 28.74                     | ---            |
| 2006 01 | ---               | ---                   | ---                    | 28.60                     | ---            |
| 2006 02 | ---               | ---                   | ---                    | 28.47                     | ---            |
| 2006 03 | ---               | ---                   | ---                    | 28.33                     | ---            |
| 2006 04 | ---               | ---                   | ---                    | 28.20                     | ---            |
| 2006 05 | ---               | ---                   | ---                    | 28.06                     | ---            |
| 2006 06 | ---               | ---                   | ---                    | 27.93                     | ---            |
| 2006 07 | ---               | ---                   | ---                    | 27.80                     | ---            |
| 2006 08 | ---               | ---                   | ---                    | 27.66                     | ---            |
| 2006 09 | ---               | ---                   | ---                    | 27.53                     | ---            |
| 2006 10 | ---               | ---                   | ---                    | 27.40                     | ---            |
| 2006 11 | ---               | ---                   | ---                    | 27.27                     | ---            |
| 2006 12 | ---               | ---                   | ---                    | 27.14                     | ---            |
| 2007 01 | ---               | ---                   | ---                    | 27.01                     | ---            |
| 2007 02 | ---               | ---                   | ---                    | 26.88                     | ---            |
| 2007 03 | ---               | ---                   | ---                    | 26.76                     | ---            |
| 2007 04 | ---               | ---                   | ---                    | 26.63                     | ---            |

# Well: JICARILLA A - 13\_MV

## Well Time Graph Report

| Date    | WI Cal<br>Day Oil | WI<br>Cal Day<br>Gas1 | WI<br>Cal Day<br>Water | WI Cal<br>Day Gas<br>FC 1 | WI Cum<br>Gas1 |
|---------|-------------------|-----------------------|------------------------|---------------------------|----------------|
|         | Bbl/d             | mcf/d                 | Bbl/d                  | mcf/d                     | MMSCF          |
| 1994 01 | ---               | ---                   | ---                    | ---                       | ---            |
| 1994 02 | ---               | ---                   | ---                    | ---                       | ---            |
| 1994 03 | ---               | ---                   | ---                    | ---                       | ---            |
| 1994 04 | ---               | ---                   | ---                    | ---                       | ---            |
| 1994 05 | ---               | ---                   | ---                    | ---                       | ---            |
| 1994 06 | ---               | ---                   | ---                    | ---                       | ---            |
| 1994 07 | ---               | ---                   | ---                    | ---                       | ---            |
| 1994 08 | ---               | ---                   | ---                    | ---                       | ---            |
| 1994 09 | ---               | ---                   | ---                    | ---                       | ---            |
| 1994 10 | ---               | 213.00                | ---                    | ---                       | 6.60           |
| 1994 11 | ---               | 292.27                | ---                    | ---                       | 15.37          |
| 1994 12 | ---               | 214.84                | ---                    | ---                       | 22.03          |
| 1995 01 | ---               | 178.13                | ---                    | ---                       | 27.55          |
| 1995 02 | ---               | 173.82                | ---                    | ---                       | 32.42          |
| 1995 03 | ---               | 175.23                | ---                    | ---                       | 37.85          |
| 1995 04 | ---               | 138.17                | ---                    | ---                       | 42.00          |
| 1995 05 | ---               | 144.74                | ---                    | ---                       | 46.48          |
| 1995 06 | ---               | 134.33                | ---                    | ---                       | 50.51          |
| 1995 07 | ---               | 125.19                | ---                    | ---                       | 54.39          |
| 1995 08 | ---               | 117.71                | ---                    | ---                       | 58.04          |
| 1995 09 | ---               | 105.80                | ---                    | ---                       | 61.22          |
| 1995 10 | ---               | 85.16                 | ---                    | ---                       | 63.86          |
| 1995 11 | ---               | 142.87                | ---                    | ---                       | 68.14          |
| 1995 12 | ---               | 97.45                 | 0.10                   | ---                       | 71.16          |
| 1996 01 | ---               | 127.23                | ---                    | ---                       | 75.11          |
| 1996 02 | ---               | 102.21                | ---                    | ---                       | 78.07          |
| 1996 03 | ---               | 86.68                 | ---                    | ---                       | 80.76          |
| 1996 04 | ---               | 66.10                 | ---                    | ---                       | 82.74          |
| 1996 05 | ---               | 91.00                 | 0.32                   | ---                       | 85.56          |
| 1996 06 | ---               | 123.63                | 0.27                   | ---                       | 89.27          |
| 1996 07 | ---               | 96.42                 | 0.06                   | ---                       | 92.26          |
| 1996 08 | ---               | 79.52                 | 0.10                   | ---                       | 94.73          |
| 1996 09 | ---               | 71.70                 | 0.13                   | ---                       | 96.88          |
| 1996 10 | ---               | 68.97                 | 0.16                   | ---                       | 99.02          |
| 1996 11 | ---               | 66.40                 | 0.07                   | ---                       | 101.01         |
| 1996 12 | ---               | 43.42                 | 0.10                   | ---                       | 102.35         |
| 1997 01 | ---               | ---                   | ---                    | ---                       | 102.35         |
| 1997 02 | ---               | 0.07                  | ---                    | ---                       | 102.36         |
| 1997 03 | ---               | 0.74                  | ---                    | ---                       | 102.38         |
| 1997 04 | ---               | 0.70                  | ---                    | ---                       | 102.40         |
| 1997 05 | ---               | 2.42                  | ---                    | ---                       | 102.47         |
| 1997 06 | ---               | 1.50                  | ---                    | ---                       | 102.52         |
| 1997 07 | ---               | 1.23                  | ---                    | ---                       | 102.56         |
| 1997 08 | ---               | 1.52                  | ---                    | ---                       | 102.60         |
| 1997 09 | ---               | 0.43                  | ---                    | ---                       | 102.62         |
| 1997 10 | ---               | 0.06                  | ---                    | ---                       | 102.62         |
| 1997 11 | ---               | 0.60                  | ---                    | ---                       | 102.64         |
| 1997 12 | ---               | 0.55                  | ---                    | ---                       | 102.65         |
| 1998 01 | ---               | 0.58                  | ---                    | ---                       | 102.67         |
| 1998 02 | ---               | ---                   | ---                    | ---                       | 102.67         |
| 1998 03 | ---               | ---                   | ---                    | ---                       | 102.67         |
| 1998 04 | ---               | ---                   | ---                    | ---                       | 102.67         |
| 1998 05 | ---               | ---                   | ---                    | ---                       | 102.67         |
| 1998 06 | ---               | ---                   | ---                    | ---                       | 102.67         |
| 1998 07 | ---               | ---                   | ---                    | ---                       | 102.67         |



# Well: JICARILLA A - 13\_MV

## Well Time Graph Report

| Date    | WI Cal<br>Day Oil | WI<br>Cal Day<br>Gas1 | WI<br>Cal Day<br>Water | WI Cal<br>Day Gas<br>FC 1 | WI Cum<br>Gas1 |
|---------|-------------------|-----------------------|------------------------|---------------------------|----------------|
|         | Bbl/d             | mcf/d                 | Bbl/d                  | mcf/d                     | MMSCF          |
| 1998 08 | ---               | ---                   | ---                    | ---                       | 102.67         |
| 1998 09 | ---               | ---                   | ---                    | ---                       | 102.67         |
| 1998 10 | ---               | ---                   | ---                    | ---                       | 102.67         |
| 1998 11 | ---               | ---                   | ---                    | ---                       | 102.67         |
| 1998 12 | ---               | ---                   | ---                    | ---                       | 102.67         |
| 1999 01 | ---               | ---                   | ---                    | ---                       | 102.67         |
| 1999 02 | ---               | ---                   | ---                    | ---                       | 102.67         |
| 1999 03 | ---               | ---                   | ---                    | ---                       | 102.67         |
| 1999 04 | ---               | ---                   | ---                    | ---                       | 102.67         |
| 1999 05 | ---               | ---                   | ---                    | ---                       | 102.67         |
| 1999 06 | ---               | ---                   | ---                    | ---                       | 102.67         |
| 1999 07 | ---               | ---                   | ---                    | ---                       | 102.67         |
| 1999 08 | ---               | ---                   | ---                    | ---                       | 102.67         |
| 1999 09 | ---               | ---                   | ---                    | ---                       | 102.67         |
| 1999 10 | ---               | ---                   | ---                    | ---                       | 102.67         |
| 1999 11 | ---               | ---                   | ---                    | ---                       | 102.67         |
| 1999 12 | ---               | ---                   | ---                    | ---                       | 102.67         |
| 2000 01 | ---               | ---                   | ---                    | ---                       | 102.67         |
| 2000 02 | ---               | ---                   | ---                    | ---                       | 102.67         |
| 2000 03 | ---               | ---                   | ---                    | ---                       | 102.67         |
| 2000 04 | ---               | ---                   | ---                    | ---                       | 102.67         |
| 2000 05 | ---               | ---                   | ---                    | ---                       | 102.67         |
| 2000 06 | ---               | ---                   | ---                    | ---                       | 102.67         |
| 2000 07 | ---               | ---                   | ---                    | ---                       | 102.67         |
| 2000 08 | ---               | ---                   | ---                    | ---                       | 102.67         |
| 2000 09 | ---               | ---                   | ---                    | ---                       | 102.67         |
| 2000 10 | ---               | ---                   | ---                    | ---                       | 102.67         |
| 2000 11 | ---               | ---                   | ---                    | ---                       | 102.67         |
| 2000 12 | ---               | ---                   | ---                    | ---                       | 102.67         |
| 2001 01 | ---               | ---                   | ---                    | ---                       | 102.67         |
| 2001 02 | ---               | ---                   | ---                    | ---                       | 102.67         |
| 2001 03 | ---               | ---                   | ---                    | ---                       | 102.67         |
| 2001 04 | ---               | ---                   | ---                    | ---                       | 102.67         |
| 2001 05 | ---               | ---                   | ---                    | ---                       | 102.67         |
| 2001 06 | ---               | ---                   | ---                    | ---                       | 102.67         |
| 2001 07 | ---               | ---                   | ---                    | ---                       | 102.67         |
| 2001 08 | ---               | ---                   | ---                    | ---                       | 102.67         |
| 2001 09 | ---               | ---                   | ---                    | ---                       | 102.67         |
| 2001 10 | ---               | ---                   | ---                    | ---                       | 102.67         |
| 2001 11 | ---               | ---                   | ---                    | ---                       | 102.67         |
| 2001 12 | ---               | ---                   | ---                    | ---                       | 102.67         |
| 2002 01 | ---               | ---                   | ---                    | ---                       | 102.67         |
| 2002 02 | 0.00              | 6.79                  | 0.00                   | ---                       | 102.86         |
| 2002 03 | 0.00              | 83.48                 | 0.00                   | 84.82                     | 105.45         |
| 2002 04 | 0.00              | 103.80                | 0.00                   | 84.46                     | 108.56         |
| 2002 05 | 1.00              | 126.68                | 0.00                   | 84.10                     | 112.49         |
| 2002 06 | 0.50              | 123.90                | 0.00                   | 83.74                     | 116.21         |
| 2002 07 | ---               | ---                   | ---                    | 83.38                     | ---            |
| 2002 08 | ---               | ---                   | ---                    | 83.03                     | ---            |
| 2002 09 | ---               | ---                   | ---                    | 82.67                     | ---            |
| 2002 10 | ---               | ---                   | ---                    | 82.32                     | ---            |
| 2002 11 | ---               | ---                   | ---                    | 81.97                     | ---            |
| 2002 12 | ---               | ---                   | ---                    | 81.62                     | ---            |
| 2003 01 | ---               | ---                   | ---                    | 81.27                     | ---            |

# Well: JICARILLA A - 13\_DK

## Well Time Graph Report

| Date    | WI Cal<br>Day Oil | WI<br>Cal Day<br>Gas1 | WI<br>Cal Day<br>Water | WI Cal<br>Day Gas<br>FC 1 | WI Cum<br>Gas1 |
|---------|-------------------|-----------------------|------------------------|---------------------------|----------------|
|         | Bbl/d             | mcf/d                 | Bbl/d                  | mcf/d                     | MMSCF          |
| 1971 01 | ---               | ---                   | ---                    | ---                       | ---            |
| 1971 02 | ---               | ---                   | ---                    | ---                       | ---            |
| 1971 03 | ---               | ---                   | ---                    | ---                       | ---            |
| 1971 04 | ---               | ---                   | ---                    | ---                       | ---            |
| 1971 05 | ---               | ---                   | ---                    | ---                       | ---            |
| 1971 06 | ---               | ---                   | ---                    | ---                       | ---            |
| 1971 07 | ---               | ---                   | ---                    | ---                       | ---            |
| 1971 08 | ---               | ---                   | ---                    | ---                       | ---            |
| 1971 09 | ---               | ---                   | ---                    | ---                       | ---            |
| 1971 10 | ---               | ---                   | ---                    | ---                       | ---            |
| 1971 11 | ---               | ---                   | ---                    | ---                       | ---            |
| 1971 12 | ---               | 524.84                | ---                    | ---                       | 16.27          |
| 1972 01 | ---               | 571.58                | ---                    | ---                       | 33.99          |
| 1972 02 | ---               | 624.52                | ---                    | ---                       | 52.10          |
| 1972 03 | ---               | 444.19                | ---                    | ---                       | 65.87          |
| 1972 04 | ---               | 435.83                | ---                    | ---                       | 78.94          |
| 1972 05 | ---               | 369.55                | ---                    | ---                       | 90.40          |
| 1972 06 | ---               | 352.03                | ---                    | ---                       | 100.96         |
| 1972 07 | ---               | 301.55                | ---                    | ---                       | 110.31         |
| 1972 08 | ---               | 282.87                | ---                    | ---                       | 119.08         |
| 1972 09 | ---               | 225.00                | ---                    | ---                       | 125.83         |
| 1972 10 | ---               | 226.77                | ---                    | ---                       | 132.86         |
| 1972 11 | ---               | 238.20                | ---                    | ---                       | 140.00         |
| 1972 12 | ---               | 242.94                | ---                    | ---                       | 147.54         |
| 1973 01 | ---               | 227.32                | ---                    | ---                       | 154.58         |
| 1973 02 | ---               | 250.86                | ---                    | ---                       | 161.61         |
| 1973 03 | ---               | 190.29                | ---                    | ---                       | 167.51         |
| 1973 04 | ---               | 144.03                | ---                    | ---                       | 171.83         |
| 1973 05 | ---               | 195.61                | ---                    | ---                       | 177.89         |
| 1973 06 | ---               | 216.47                | ---                    | ---                       | 184.38         |
| 1973 07 | ---               | 192.77                | ---                    | ---                       | 190.36         |
| 1973 08 | ---               | 175.94                | ---                    | ---                       | 195.81         |
| 1973 09 | ---               | 194.73                | ---                    | ---                       | 201.66         |
| 1973 10 | ---               | 172.00                | ---                    | ---                       | 206.99         |
| 1973 11 | ---               | 187.03                | ---                    | ---                       | 212.60         |
| 1973 12 | ---               | 144.87                | ---                    | ---                       | 217.09         |
| 1974 01 | ---               | 152.58                | ---                    | ---                       | 221.82         |
| 1974 02 | ---               | 125.89                | ---                    | ---                       | 225.35         |
| 1974 03 | ---               | 118.94                | ---                    | ---                       | 229.03         |
| 1974 04 | ---               | 147.60                | ---                    | ---                       | 233.46         |
| 1974 05 | ---               | 118.16                | ---                    | ---                       | 237.12         |
| 1974 06 | ---               | 142.90                | ---                    | ---                       | 241.41         |
| 1974 07 | ---               | 111.71                | ---                    | ---                       | 244.87         |
| 1974 08 | ---               | 98.55                 | ---                    | ---                       | 247.93         |
| 1974 09 | ---               | 117.87                | ---                    | ---                       | 251.46         |
| 1974 10 | ---               | 74.32                 | ---                    | ---                       | 253.77         |
| 1974 11 | ---               | 71.63                 | ---                    | ---                       | 255.92         |
| 1974 12 | ---               | 150.68                | ---                    | ---                       | 260.59         |
| 1975 01 | ---               | 148.74                | ---                    | ---                       | 265.20         |
| 1975 02 | ---               | 111.82                | ---                    | ---                       | 268.33         |
| 1975 03 | ---               | 102.45                | ---                    | ---                       | 271.51         |
| 1975 04 | ---               | 138.93                | ---                    | ---                       | 275.67         |
| 1975 05 | ---               | 108.48                | ---                    | ---                       | 279.04         |
| 1975 06 | ---               | 90.90                 | ---                    | ---                       | 281.76         |
| 1975 07 | ---               | 130.61                | ---                    | ---                       | 285.81         |

# Well: JICARILLA A - 13\_DK

## Well Time Graph Report

| Date    | WI Cal<br>Day Oil | WI<br>Cal Day<br>Gas1 | WI<br>Cal Day<br>Water | WI Cal<br>Day Gas<br>FC 1 | WI Cum<br>Gas1 |
|---------|-------------------|-----------------------|------------------------|---------------------------|----------------|
|         | Bbl/d             | mcf/d                 | Bbl/d                  | mcf/d                     | MMSCF          |
| 1975 08 | ---               | 102.52                | ---                    | ---                       | 288.99         |
| 1975 09 | ---               | 83.03                 | ---                    | ---                       | 291.48         |
| 1975 10 | ---               | 71.06                 | ---                    | ---                       | 293.69         |
| 1975 11 | ---               | 107.00                | ---                    | ---                       | 296.90         |
| 1975 12 | ---               | 127.42                | ---                    | ---                       | 300.85         |
| 1976 01 | ---               | 124.81                | ---                    | ---                       | 304.71         |
| 1976 02 | ---               | 103.90                | ---                    | ---                       | 307.73         |
| 1976 03 | ---               | 127.35                | ---                    | ---                       | 311.68         |
| 1976 04 | ---               | 97.27                 | ---                    | ---                       | 314.59         |
| 1976 05 | ---               | 66.87                 | ---                    | ---                       | 316.67         |
| 1976 06 | ---               | 65.87                 | ---                    | ---                       | 318.64         |
| 1976 07 | ---               | 112.52                | ---                    | ---                       | 322.13         |
| 1976 08 | ---               | 96.10                 | ---                    | ---                       | 325.11         |
| 1976 09 | ---               | 74.03                 | ---                    | ---                       | 327.33         |
| 1976 10 | ---               | 39.84                 | ---                    | ---                       | 328.57         |
| 1976 11 | ---               | 31.23                 | ---                    | ---                       | 329.50         |
| 1976 12 | ---               | 131.23                | ---                    | ---                       | 333.57         |
| 1977 01 | ---               | 135.65                | ---                    | ---                       | 337.78         |
| 1977 02 | ---               | 99.11                 | ---                    | ---                       | 340.55         |
| 1977 03 | ---               | 71.58                 | ---                    | ---                       | 342.77         |
| 1977 04 | ---               | 72.20                 | ---                    | ---                       | 344.94         |
| 1977 05 | ---               | 122.10                | ---                    | ---                       | 348.72         |
| 1977 06 | ---               | 89.23                 | ---                    | ---                       | 351.40         |
| 1977 07 | ---               | 79.13                 | ---                    | ---                       | 353.85         |
| 1977 08 | ---               | 80.58                 | ---                    | ---                       | 356.35         |
| 1977 09 | ---               | 59.10                 | ---                    | ---                       | 358.12         |
| 1977 10 | ---               | 68.94                 | ---                    | ---                       | 360.26         |
| 1977 11 | ---               | 60.37                 | ---                    | ---                       | 362.07         |
| 1977 12 | ---               | 144.32                | ---                    | ---                       | 366.54         |
| 1978 01 | ---               | 78.81                 | ---                    | ---                       | 368.99         |
| 1978 02 | ---               | 110.07                | ---                    | ---                       | 372.07         |
| 1978 03 | ---               | 69.77                 | ---                    | ---                       | 374.23         |
| 1978 04 | ---               | 47.07                 | ---                    | ---                       | 375.64         |
| 1978 05 | ---               | 28.94                 | ---                    | ---                       | 376.54         |
| 1978 06 | ---               | 46.90                 | ---                    | ---                       | 377.95         |
| 1978 07 | ---               | 60.65                 | ---                    | ---                       | 379.83         |
| 1978 08 | ---               | 49.94                 | ---                    | ---                       | 381.38         |
| 1978 09 | ---               | 18.57                 | ---                    | ---                       | 381.93         |
| 1978 10 | ---               | 37.87                 | ---                    | ---                       | 383.11         |
| 1978 11 | ---               | 49.43                 | ---                    | ---                       | 384.59         |
| 1978 12 | ---               | 59.45                 | ---                    | ---                       | 386.43         |
| 1979 01 | ---               | 105.13                | ---                    | ---                       | 389.69         |
| 1979 02 | ---               | 67.64                 | ---                    | ---                       | 391.59         |
| 1979 03 | ---               | 51.23                 | ---                    | ---                       | 393.17         |
| 1979 04 | ---               | 89.17                 | ---                    | ---                       | 395.85         |
| 1979 05 | ---               | 64.61                 | ---                    | ---                       | 397.85         |
| 1979 06 | ---               | 88.00                 | ---                    | ---                       | 400.49         |
| 1979 07 | ---               | 36.39                 | ---                    | ---                       | 401.62         |
| 1979 08 | ---               | ---                   | ---                    | ---                       | 401.62         |
| 1979 09 | ---               | 125.70                | ---                    | ---                       | 405.39         |
| 1979 10 | ---               | 60.84                 | ---                    | ---                       | 407.28         |
| 1979 11 | ---               | 67.87                 | ---                    | ---                       | 409.31         |
| 1979 12 | ---               | 68.00                 | ---                    | ---                       | 411.42         |
| 1980 01 | ---               | 91.42                 | ---                    | ---                       | 414.25         |

# Well: JICARILLA A - 13\_DK

## Well Time Graph Report

| Date    | WI Cal<br>Day Oil | WI<br>Cal Day<br>Gas1 | WI<br>Cal Day<br>Water | WI Cal<br>Day Gas<br>FC 1 | WI Cum<br>Gas1 |
|---------|-------------------|-----------------------|------------------------|---------------------------|----------------|
|         | Bbl/d             | mcf/d                 | Bbl/d                  | mcf/d                     | MMSCF          |
| 1980 02 | ---               | 86.00                 | ---                    | ---                       | 416.75         |
| 1980 03 | ---               | 61.65                 | ---                    | ---                       | 418.66         |
| 1980 04 | ---               | 66.83                 | ---                    | ---                       | 420.66         |
| 1980 05 | ---               | 49.71                 | ---                    | ---                       | 422.21         |
| 1980 06 | ---               | 83.27                 | ---                    | ---                       | 424.70         |
| 1980 07 | ---               | 43.87                 | ---                    | ---                       | 426.06         |
| 1980 08 | ---               | 86.97                 | ---                    | ---                       | 428.76         |
| 1980 09 | ---               | 41.17                 | ---                    | ---                       | 429.99         |
| 1980 10 | ---               | 53.19                 | ---                    | ---                       | 431.64         |
| 1980 11 | ---               | 70.00                 | ---                    | ---                       | 433.74         |
| 1980 12 | ---               | 66.10                 | ---                    | ---                       | 435.79         |
| 1981 01 | ---               | 65.42                 | ---                    | ---                       | 437.82         |
| 1981 02 | ---               | 73.11                 | ---                    | ---                       | 439.87         |
| 1981 03 | ---               | 51.23                 | ---                    | ---                       | 441.46         |
| 1981 04 | ---               | 68.37                 | ---                    | ---                       | 443.51         |
| 1981 05 | ---               | 50.32                 | ---                    | ---                       | 445.07         |
| 1981 06 | ---               | 46.07                 | ---                    | ---                       | 446.45         |
| 1981 07 | ---               | 37.77                 | ---                    | ---                       | 447.62         |
| 1981 08 | ---               | 39.97                 | ---                    | ---                       | 448.86         |
| 1981 09 | ---               | 33.00                 | ---                    | ---                       | 449.85         |
| 1981 10 | ---               | 39.03                 | ---                    | ---                       | 451.06         |
| 1981 11 | ---               | 40.33                 | ---                    | ---                       | 452.27         |
| 1981 12 | ---               | 70.55                 | ---                    | ---                       | 454.46         |
| 1982 01 | ---               | 69.29                 | ---                    | ---                       | 456.60         |
| 1982 02 | ---               | 90.39                 | ---                    | ---                       | 459.13         |
| 1982 03 | ---               | 46.48                 | ---                    | ---                       | 460.58         |
| 1982 04 | ---               | 47.43                 | ---                    | ---                       | 462.00         |
| 1982 05 | ---               | 37.61                 | ---                    | ---                       | 463.16         |
| 1982 06 | ---               | 28.40                 | ---                    | ---                       | 464.02         |
| 1982 07 | ---               | ---                   | ---                    | ---                       | 464.02         |
| 1982 08 | ---               | ---                   | ---                    | ---                       | 464.02         |
| 1982 09 | ---               | ---                   | ---                    | ---                       | 464.02         |
| 1982 10 | ---               | 20.06                 | ---                    | ---                       | 464.64         |
| 1982 11 | ---               | 47.63                 | ---                    | ---                       | 466.07         |
| 1982 12 | ---               | 55.29                 | ---                    | ---                       | 467.78         |
| 1983 01 | ---               | 41.68                 | ---                    | ---                       | 469.07         |
| 1983 02 | ---               | 55.11                 | ---                    | ---                       | 470.62         |
| 1983 03 | ---               | 40.16                 | ---                    | ---                       | 471.86         |
| 1983 04 | ---               | 9.67                  | ---                    | ---                       | 472.15         |
| 1983 05 | ---               | 15.03                 | ---                    | ---                       | 472.62         |
| 1983 06 | ---               | 19.70                 | ---                    | ---                       | 473.21         |
| 1983 07 | ---               | 42.97                 | ---                    | ---                       | 474.54         |
| 1983 08 | ---               | 43.13                 | ---                    | ---                       | 475.88         |
| 1983 09 | ---               | 29.27                 | ---                    | ---                       | 476.76         |
| 1983 10 | ---               | ---                   | ---                    | ---                       | 476.76         |
| 1983 11 | ---               | 15.77                 | ---                    | ---                       | 477.23         |
| 1983 12 | ---               | 37.42                 | ---                    | ---                       | 478.39         |
| 1984 01 | ---               | 41.97                 | ---                    | ---                       | 479.69         |
| 1984 02 | ---               | 71.66                 | ---                    | ---                       | 481.77         |
| 1984 03 | ---               | 32.39                 | ---                    | ---                       | 482.77         |
| 1984 04 | ---               | 34.57                 | ---                    | ---                       | 483.81         |
| 1984 05 | ---               | 7.45                  | ---                    | ---                       | 484.04         |
| 1984 06 | ---               | ---                   | ---                    | ---                       | 484.04         |
| 1984 07 | ---               | ---                   | ---                    | ---                       | 484.04         |
| 1984 08 | ---               | ---                   | ---                    | ---                       | 484.04         |



# Well: JICARILLA A - 13\_DK

## Well Time Graph Report

| Date    | WI Cal<br>Day Oil | WI<br>Cal Day<br>Gas1 | WI<br>Cal Day<br>Water | WI Cal<br>Day Gas<br>FC 1 | WI Cum<br>Gas1 |
|---------|-------------------|-----------------------|------------------------|---------------------------|----------------|
|         | Bbl/d             | mcf/d                 | Bbl/d                  | mcf/d                     | MMSCF          |
| 1984 09 | ---               | ---                   | ---                    | ---                       | 484.04         |
| 1984 10 | ---               | ---                   | ---                    | ---                       | 484.04         |
| 1984 11 | ---               | ---                   | ---                    | ---                       | 484.04         |
| 1984 12 | ---               | ---                   | ---                    | ---                       | 484.04         |
| 1985 01 | ---               | ---                   | ---                    | ---                       | 484.04         |
| 1985 02 | ---               | 5.57                  | ---                    | ---                       | 484.20         |
| 1985 03 | ---               | 1.81                  | ---                    | ---                       | 484.25         |
| 1985 04 | ---               | 110.67                | ---                    | ---                       | 487.57         |
| 1985 05 | ---               | 92.03                 | ---                    | ---                       | 490.42         |
| 1985 06 | ---               | 35.00                 | ---                    | ---                       | 491.47         |
| 1985 07 | ---               | 3.35                  | ---                    | ---                       | 491.58         |
| 1985 08 | ---               | 21.61                 | ---                    | ---                       | 492.25         |
| 1985 09 | ---               | ---                   | ---                    | ---                       | 492.25         |
| 1985 10 | ---               | 6.52                  | ---                    | ---                       | 492.45         |
| 1985 11 | ---               | 20.70                 | ---                    | ---                       | 493.07         |
| 1985 12 | ---               | 92.65                 | ---                    | ---                       | 495.94         |
| 1986 01 | ---               | 35.42                 | ---                    | ---                       | 497.04         |
| 1986 02 | ---               | 23.11                 | ---                    | ---                       | 497.69         |
| 1986 03 | ---               | 17.23                 | ---                    | ---                       | 498.22         |
| 1986 04 | ---               | 12.13                 | ---                    | ---                       | 498.59         |
| 1986 05 | ---               | 1.13                  | ---                    | ---                       | 498.62         |
| 1986 06 | ---               | 29.80                 | ---                    | ---                       | 499.52         |
| 1986 07 | ---               | 59.71                 | ---                    | ---                       | 501.37         |
| 1986 08 | ---               | 65.35                 | ---                    | ---                       | 503.39         |
| 1986 09 | ---               | 0.13                  | ---                    | ---                       | 503.40         |
| 1986 10 | ---               | 0.06                  | ---                    | ---                       | 503.40         |
| 1986 11 | ---               | 5.77                  | ---                    | ---                       | 503.57         |
| 1986 12 | ---               | 46.65                 | ---                    | ---                       | 505.02         |
| 1987 01 | ---               | 79.65                 | ---                    | ---                       | 507.49         |
| 1987 02 | ---               | 50.04                 | ---                    | ---                       | 508.89         |
| 1987 03 | ---               | 47.87                 | ---                    | ---                       | 510.37         |
| 1987 04 | ---               | 25.03                 | ---                    | ---                       | 511.12         |
| 1987 05 | ---               | 5.35                  | ---                    | ---                       | 511.29         |
| 1987 06 | ---               | ---                   | ---                    | ---                       | 511.29         |
| 1987 07 | ---               | 15.03                 | 0.10                   | ---                       | 511.75         |
| 1987 08 | ---               | 103.90                | ---                    | ---                       | 514.98         |
| 1987 09 | ---               | 66.93                 | ---                    | ---                       | 516.98         |
| 1987 10 | ---               | 49.97                 | ---                    | ---                       | 518.53         |
| 1987 11 | ---               | ---                   | ---                    | ---                       | 518.53         |
| 1987 12 | ---               | 21.32                 | ---                    | ---                       | 519.19         |
| 1988 01 | ---               | 66.19                 | ---                    | ---                       | 521.25         |
| 1988 02 | ---               | 48.48                 | ---                    | ---                       | 522.65         |
| 1988 03 | ---               | ---                   | ---                    | ---                       | 522.65         |
| 1988 04 | ---               | ---                   | ---                    | ---                       | 522.65         |
| 1988 05 | ---               | ---                   | ---                    | ---                       | 522.65         |
| 1988 06 | ---               | 10.17                 | ---                    | ---                       | 522.96         |
| 1988 07 | ---               | 68.19                 | ---                    | ---                       | 525.07         |
| 1988 08 | ---               | ---                   | ---                    | ---                       | 525.07         |
| 1988 09 | ---               | 7.33                  | ---                    | ---                       | 525.29         |
| 1988 10 | ---               | ---                   | ---                    | ---                       | 525.29         |
| 1988 11 | ---               | 129.77                | ---                    | ---                       | 529.18         |
| 1988 12 | ---               | 0.84                  | ---                    | ---                       | 529.21         |
| 1989 01 | ---               | ---                   | ---                    | ---                       | 529.21         |
| 1989 02 | ---               | 30.79                 | 0.07                   | ---                       | 530.07         |

# Well: JICARILLA A - 13\_DK

## Well Time Graph Report

| Date    | WI Cal<br>Day Oil | WI<br>Cal Day<br>Gas1 | WI<br>Cal Day<br>Water | WI Cal<br>Day Gas<br>FC 1 | WI Cum<br>Gas1 |
|---------|-------------------|-----------------------|------------------------|---------------------------|----------------|
|         | Bbl/d             | mcf/d                 | Bbl/d                  | mcf/d                     | MMSCF          |
| 1989 03 | ---               | 0.03                  | ---                    | ---                       | 530.07         |
| 1989 04 | ---               | ---                   | ---                    | ---                       | 530.07         |
| 1989 05 | ---               | ---                   | ---                    | ---                       | 530.07         |
| 1989 06 | ---               | 5.37                  | ---                    | ---                       | 530.23         |
| 1989 07 | ---               | 17.94                 | ---                    | ---                       | 530.79         |
| 1989 08 | ---               | 23.55                 | ---                    | ---                       | 531.52         |
| 1989 09 | ---               | 65.80                 | 0.03                   | ---                       | 533.49         |
| 1989 10 | ---               | 40.52                 | 0.13                   | ---                       | 534.75         |
| 1989 11 | ---               | 110.70                | 0.13                   | ---                       | 538.07         |
| 1989 12 | ---               | 74.19                 | 0.13                   | ---                       | 540.37         |
| 1990 01 | ---               | 40.26                 | ---                    | ---                       | 541.62         |
| 1990 02 | ---               | 31.54                 | 0.11                   | ---                       | 542.50         |
| 1990 03 | ---               | 53.29                 | 0.23                   | ---                       | 544.15         |
| 1990 04 | ---               | 7.50                  | ---                    | ---                       | 544.38         |
| 1990 05 | ---               | ---                   | ---                    | ---                       | 544.38         |
| 1990 06 | ---               | ---                   | ---                    | ---                       | 544.38         |
| 1990 07 | ---               | 71.35                 | 0.06                   | ---                       | 546.59         |
| 1990 08 | ---               | 100.81                | ---                    | ---                       | 549.72         |
| 1990 09 | ---               | 95.57                 | ---                    | ---                       | 552.58         |
| 1990 10 | ---               | 63.16                 | ---                    | ---                       | 554.54         |
| 1990 11 | ---               | 48.40                 | ---                    | ---                       | 555.99         |
| 1990 12 | ---               | 49.00                 | ---                    | ---                       | 557.51         |
| 1991 01 | ---               | 39.19                 | ---                    | ---                       | 558.73         |
| 1991 02 | ---               | 12.75                 | ---                    | ---                       | 559.08         |
| 1991 03 | ---               | 26.26                 | ---                    | ---                       | 559.90         |
| 1991 04 | ---               | 53.10                 | ---                    | ---                       | 561.49         |
| 1991 05 | ---               | 31.74                 | ---                    | ---                       | 562.47         |
| 1991 06 | ---               | 52.40                 | ---                    | ---                       | 564.05         |
| 1991 07 | ---               | 6.00                  | ---                    | ---                       | 564.23         |
| 1991 08 | ---               | 35.97                 | ---                    | ---                       | 565.35         |
| 1991 09 | ---               | ---                   | ---                    | ---                       | 565.35         |
| 1991 10 | ---               | ---                   | ---                    | ---                       | 565.35         |
| 1991 11 | ---               | 90.67                 | ---                    | ---                       | 568.07         |
| 1991 12 | ---               | 0.68                  | ---                    | ---                       | 568.09         |
| 1992 01 | ---               | 47.58                 | ---                    | ---                       | 569.56         |
| 1992 02 | ---               | 48.38                 | ---                    | ---                       | 570.97         |
| 1992 03 | ---               | 42.87                 | ---                    | ---                       | 572.30         |
| 1992 04 | ---               | 75.80                 | ---                    | ---                       | 574.57         |
| 1992 05 | ---               | 59.52                 | ---                    | ---                       | 576.41         |
| 1992 06 | ---               | 46.20                 | ---                    | ---                       | 577.80         |
| 1992 07 | ---               | 51.61                 | ---                    | ---                       | 579.40         |
| 1992 08 | ---               | 50.00                 | ---                    | ---                       | 580.95         |
| 1992 09 | ---               | 50.00                 | ---                    | ---                       | 582.45         |
| 1992 10 | ---               | 33.90                 | ---                    | ---                       | 583.50         |
| 1992 11 | ---               | 58.70                 | ---                    | ---                       | 585.26         |
| 1992 12 | ---               | 29.94                 | ---                    | ---                       | 586.19         |
| 1993 01 | ---               | 24.42                 | ---                    | ---                       | 586.95         |
| 1993 02 | ---               | 49.96                 | ---                    | ---                       | 588.35         |
| 1993 03 | ---               | 17.77                 | ---                    | ---                       | 588.90         |
| 1993 04 | ---               | 23.47                 | ---                    | ---                       | 589.60         |
| 1993 05 | ---               | 67.10                 | ---                    | ---                       | 591.68         |
| 1993 06 | ---               | 59.83                 | ---                    | ---                       | 593.48         |
| 1993 07 | ---               | 56.45                 | ---                    | ---                       | 595.23         |
| 1993 08 | ---               | 47.87                 | ---                    | ---                       | 596.71         |
| 1993 09 | ---               | 64.20                 | ---                    | ---                       | 598.64         |

# Well: JICARILLA A - 13\_DK

## Well Time Graph Report

| Date    | WI Cal<br>Day Oil | WI<br>Cal Day<br>Gas1 | WI<br>Cal Day<br>Water | WI Cal<br>Day Gas<br>FC 1 | WI Cum<br>Gas1 |
|---------|-------------------|-----------------------|------------------------|---------------------------|----------------|
|         | Bbl/d             | mcf/d                 | Bbl/d                  | mcf/d                     | MMSCF          |
| 1993 10 | ---               | 50.74                 | ---                    | ---                       | 600.21         |
| 1993 11 | ---               | 45.30                 | ---                    | ---                       | 601.57         |
| 1993 12 | ---               | 33.00                 | ---                    | ---                       | 602.59         |
| 1994 01 | ---               | 31.35                 | ---                    | ---                       | 603.56         |
| 1994 02 | ---               | 34.54                 | ---                    | ---                       | 604.53         |
| 1994 03 | ---               | 49.90                 | ---                    | ---                       | 606.08         |
| 1994 04 | ---               | 47.30                 | ---                    | ---                       | 607.50         |
| 1994 05 | ---               | 41.19                 | ---                    | ---                       | 608.77         |
| 1994 06 | ---               | 50.10                 | ---                    | ---                       | 610.28         |
| 1994 07 | ---               | 44.19                 | ---                    | ---                       | 611.65         |
| 1994 08 | ---               | 50.48                 | ---                    | ---                       | 613.21         |
| 1994 09 | ---               | 32.23                 | ---                    | ---                       | 614.18         |
| 1994 10 | ---               | ---                   | ---                    | ---                       | 614.18         |
| 1994 11 | ---               | ---                   | ---                    | ---                       | 614.18         |
| 1994 12 | ---               | ---                   | ---                    | ---                       | 614.18         |
| 1995 01 | ---               | ---                   | ---                    | ---                       | 614.18         |
| 1995 02 | ---               | ---                   | ---                    | ---                       | 614.18         |
| 1995 03 | ---               | ---                   | ---                    | ---                       | 614.18         |
| 1995 04 | ---               | ---                   | ---                    | ---                       | 614.18         |
| 1995 05 | ---               | ---                   | ---                    | ---                       | 614.18         |
| 1995 06 | ---               | ---                   | ---                    | ---                       | 614.18         |
| 1995 07 | ---               | ---                   | ---                    | ---                       | 614.18         |
| 1995 08 | ---               | ---                   | ---                    | ---                       | 614.18         |
| 1995 09 | ---               | ---                   | ---                    | ---                       | 614.18         |
| 1995 10 | ---               | ---                   | ---                    | ---                       | 614.18         |
| 1995 11 | ---               | ---                   | ---                    | ---                       | 614.18         |
| 1995 12 | ---               | ---                   | 0.71                   | ---                       | 614.18         |
| 1996 01 | ---               | ---                   | ---                    | ---                       | 614.18         |
| 1996 02 | ---               | ---                   | ---                    | ---                       | 614.18         |
| 1996 03 | ---               | ---                   | ---                    | ---                       | 614.18         |
| 1996 04 | ---               | ---                   | ---                    | ---                       | 614.18         |
| 1996 05 | ---               | ---                   | ---                    | ---                       | 614.18         |
| 1996 06 | ---               | ---                   | ---                    | ---                       | 614.18         |
| 1996 07 | ---               | ---                   | ---                    | ---                       | 614.18         |
| 1996 08 | ---               | ---                   | ---                    | ---                       | 614.18         |
| 1996 09 | ---               | ---                   | ---                    | ---                       | 614.18         |
| 1996 10 | ---               | ---                   | ---                    | ---                       | 614.18         |
| 1996 11 | ---               | ---                   | ---                    | ---                       | 614.18         |
| 1996 12 | ---               | ---                   | ---                    | ---                       | 614.18         |
| 1997 01 | ---               | ---                   | ---                    | ---                       | 614.18         |
| 1997 02 | ---               | ---                   | ---                    | ---                       | 614.18         |
| 1997 03 | ---               | ---                   | ---                    | ---                       | 614.18         |
| 1997 04 | ---               | 0.37                  | ---                    | ---                       | 614.19         |
| 1997 05 | ---               | 1.26                  | ---                    | ---                       | 614.23         |
| 1997 06 | ---               | 0.80                  | ---                    | ---                       | 614.25         |
| 1997 07 | ---               | 0.65                  | ---                    | ---                       | 614.27         |
| 1997 08 | ---               | 0.81                  | ---                    | ---                       | 614.30         |
| 1997 09 | ---               | 0.23                  | ---                    | ---                       | 614.30         |
| 1997 10 | ---               | ---                   | ---                    | ---                       | 614.30         |
| 1997 11 | ---               | 0.30                  | ---                    | ---                       | 614.31         |
| 1997 12 | ---               | 0.26                  | ---                    | ---                       | 614.32         |
| 1998 01 | ---               | 0.29                  | ---                    | ---                       | 614.33         |
| 1998 02 | ---               | ---                   | ---                    | ---                       | 614.33         |
| 1998 03 | ---               | ---                   | ---                    | ---                       | 614.33         |

# Well: JICARILLA A - 13\_DK

## Well Time Graph Report

| Date    | WI Cal<br>Day Oil | WI<br>Cal Day<br>Gas1 | WI<br>Cal Day<br>Water | WI Cal<br>Day Gas<br>FC 1 | WI Cum<br>Gas1 |
|---------|-------------------|-----------------------|------------------------|---------------------------|----------------|
|         | Bbl/d             | mcf/d                 | Bbl/d                  | mcf/d                     | MMSCF          |
| 1998 04 | ---               | ---                   | ---                    | ---                       | 614.33         |
| 1998 05 | ---               | ---                   | ---                    | ---                       | 614.33         |
| 1998 06 | ---               | ---                   | ---                    | ---                       | 614.33         |
| 1998 07 | ---               | ---                   | ---                    | ---                       | 614.33         |
| 1998 08 | ---               | ---                   | ---                    | ---                       | 614.33         |
| 1998 09 | ---               | ---                   | ---                    | ---                       | 614.33         |
| 1998 10 | ---               | ---                   | ---                    | ---                       | 614.33         |
| 1998 11 | ---               | ---                   | ---                    | ---                       | 614.33         |
| 1998 12 | ---               | ---                   | ---                    | ---                       | 614.33         |
| 1999 01 | ---               | ---                   | ---                    | ---                       | 614.33         |
| 1999 02 | ---               | ---                   | ---                    | ---                       | 614.33         |
| 1999 03 | ---               | ---                   | ---                    | ---                       | 614.33         |
| 1999 04 | ---               | ---                   | ---                    | ---                       | 614.33         |
| 1999 05 | ---               | ---                   | ---                    | ---                       | 614.33         |
| 1999 06 | ---               | ---                   | ---                    | ---                       | 614.33         |
| 1999 07 | ---               | ---                   | ---                    | ---                       | 614.33         |
| 1999 08 | ---               | ---                   | ---                    | ---                       | 614.33         |
| 1999 09 | ---               | ---                   | ---                    | ---                       | 614.33         |
| 1999 10 | ---               | ---                   | ---                    | ---                       | 614.33         |
| 1999 11 | ---               | ---                   | ---                    | ---                       | 614.33         |
| 1999 12 | ---               | ---                   | ---                    | ---                       | 614.33         |
| 2000 01 | ---               | ---                   | ---                    | ---                       | 614.33         |
| 2000 02 | ---               | ---                   | ---                    | ---                       | 614.33         |
| 2000 03 | ---               | ---                   | ---                    | ---                       | 614.33         |
| 2000 04 | ---               | ---                   | ---                    | ---                       | 614.33         |
| 2000 05 | ---               | ---                   | ---                    | ---                       | 614.33         |
| 2000 06 | ---               | ---                   | ---                    | ---                       | 614.33         |
| 2000 07 | ---               | ---                   | ---                    | ---                       | 614.33         |
| 2000 08 | ---               | ---                   | ---                    | ---                       | 614.33         |
| 2000 09 | ---               | ---                   | ---                    | ---                       | 614.33         |
| 2000 10 | ---               | ---                   | ---                    | ---                       | 614.33         |
| 2000 11 | ---               | ---                   | ---                    | ---                       | 614.33         |
| 2000 12 | ---               | ---                   | ---                    | ---                       | 614.33         |
| 2001 01 | ---               | ---                   | ---                    | ---                       | 614.33         |
| 2001 02 | ---               | ---                   | ---                    | ---                       | 614.33         |
| 2001 03 | ---               | ---                   | ---                    | ---                       | 614.33         |
| 2001 04 | ---               | ---                   | ---                    | ---                       | 614.33         |
| 2001 05 | ---               | ---                   | ---                    | ---                       | 614.33         |
| 2001 06 | ---               | ---                   | ---                    | ---                       | 614.33         |
| 2001 07 | ---               | ---                   | ---                    | ---                       | 614.33         |
| 2001 08 | ---               | ---                   | ---                    | ---                       | 614.33         |
| 2001 09 | ---               | ---                   | ---                    | ---                       | 614.33         |
| 2001 10 | ---               | ---                   | ---                    | ---                       | 614.33         |
| 2001 11 | ---               | ---                   | ---                    | ---                       | 614.33         |
| 2001 12 | ---               | ---                   | ---                    | ---                       | 614.33         |
| 2002 01 | ---               | ---                   | ---                    | ---                       | 614.33         |
| 2002 02 | 0.00              | 3.64                  | 0.00                   | ---                       | 614.43         |
| 2002 03 | 0.00              | 44.94                 | 0.00                   | 44.92                     | 615.83         |
| 2002 04 | 0.00              | 55.90                 | 0.00                   | 44.77                     | 617.50         |
| 2002 05 | 3.55              | 68.23                 | 0.00                   | 44.62                     | 619.62         |
| 2002 06 | 1.77              | 66.73                 | 0.00                   | 44.47                     | 621.62         |
| 2002 07 | ---               | ---                   | ---                    | 44.32                     | ---            |
| 2002 08 | ---               | ---                   | ---                    | 44.17                     | ---            |
| 2002 09 | ---               | ---                   | ---                    | 44.02                     | ---            |
| 2002 10 | ---               | ---                   | ---                    | 43.87                     | ---            |

# Well: JICARILLA A - 13\_DK

## Well Time Graph Report

| Date    | WI Cal<br>Day Oil | WI<br>Cal Day<br>Gas1 | WI<br>Cal Day<br>Water | WI Cal<br>Day Gas<br>FC 1 | WI Cum<br>Gas1 |
|---------|-------------------|-----------------------|------------------------|---------------------------|----------------|
|         | Bbl/d             | mcf/d                 | Bbl/d                  | mcf/d                     | MMSCF          |
| 2002 11 | ---               | ---                   | ---                    | 43.72                     | ---            |
| 2002 12 | ---               | ---                   | ---                    | 43.57                     | ---            |
| 2003 01 | ---               | ---                   | ---                    | 43.42                     | ---            |
| 2003 02 | ---               | ---                   | ---                    | 43.27                     | ---            |
| 2003 03 | ---               | ---                   | ---                    | 43.13                     | ---            |
| 2003 04 | ---               | ---                   | ---                    | 42.98                     | ---            |
| 2003 05 | ---               | ---                   | ---                    | 42.83                     | ---            |
| 2003 06 | ---               | ---                   | ---                    | 42.69                     | ---            |
| 2003 07 | ---               | ---                   | ---                    | 42.54                     | ---            |
| 2003 08 | ---               | ---                   | ---                    | 42.40                     | ---            |
| 2003 09 | ---               | ---                   | ---                    | 42.26                     | ---            |
| 2003 10 | ---               | ---                   | ---                    | 42.11                     | ---            |
| 2003 11 | ---               | ---                   | ---                    | 41.97                     | ---            |
| 2003 12 | ---               | ---                   | ---                    | 41.83                     | ---            |
| 2004 01 | ---               | ---                   | ---                    | 41.68                     | ---            |
| 2004 02 | ---               | ---                   | ---                    | 41.54                     | ---            |
| 2004 03 | ---               | ---                   | ---                    | 41.40                     | ---            |
| 2004 04 | ---               | ---                   | ---                    | 41.26                     | ---            |
| 2004 05 | ---               | ---                   | ---                    | 41.12                     | ---            |
| 2004 06 | ---               | ---                   | ---                    | 40.98                     | ---            |
| 2004 07 | ---               | ---                   | ---                    | 40.84                     | ---            |
| 2004 08 | ---               | ---                   | ---                    | 40.70                     | ---            |
| 2004 09 | ---               | ---                   | ---                    | 40.57                     | ---            |
| 2004 10 | ---               | ---                   | ---                    | 40.43                     | ---            |
| 2004 11 | ---               | ---                   | ---                    | 40.29                     | ---            |
| 2004 12 | ---               | ---                   | ---                    | 40.15                     | ---            |
| 2005 01 | ---               | ---                   | ---                    | 40.02                     | ---            |
| 2005 02 | ---               | ---                   | ---                    | 39.88                     | ---            |
| 2005 03 | ---               | ---                   | ---                    | 39.75                     | ---            |
| 2005 04 | ---               | ---                   | ---                    | 39.61                     | ---            |
| 2005 05 | ---               | ---                   | ---                    | 39.48                     | ---            |
| 2005 06 | ---               | ---                   | ---                    | 39.34                     | ---            |
| 2005 07 | ---               | ---                   | ---                    | 39.21                     | ---            |
| 2005 08 | ---               | ---                   | ---                    | 39.08                     | ---            |
| 2005 09 | ---               | ---                   | ---                    | 38.94                     | ---            |
| 2005 10 | ---               | ---                   | ---                    | 38.81                     | ---            |
| 2005 11 | ---               | ---                   | ---                    | 38.68                     | ---            |
| 2005 12 | ---               | ---                   | ---                    | 38.55                     | ---            |
| 2006 01 | ---               | ---                   | ---                    | 38.42                     | ---            |
| 2006 02 | ---               | ---                   | ---                    | 38.29                     | ---            |
| 2006 03 | ---               | ---                   | ---                    | 38.16                     | ---            |
| 2006 04 | ---               | ---                   | ---                    | 38.03                     | ---            |
| 2006 05 | ---               | ---                   | ---                    | 37.90                     | ---            |
| 2006 06 | ---               | ---                   | ---                    | 37.77                     | ---            |
| 2006 07 | ---               | ---                   | ---                    | 37.64                     | ---            |
| 2006 08 | ---               | ---                   | ---                    | 37.51                     | ---            |
| 2006 09 | ---               | ---                   | ---                    | 37.38                     | ---            |
| 2006 10 | ---               | ---                   | ---                    | 37.26                     | ---            |
| 2006 11 | ---               | ---                   | ---                    | 37.13                     | ---            |
| 2006 12 | ---               | ---                   | ---                    | 37.01                     | ---            |
| 2007 01 | ---               | ---                   | ---                    | 36.88                     | ---            |
| 2007 02 | ---               | ---                   | ---                    | 36.75                     | ---            |
| 2007 03 | ---               | ---                   | ---                    | 36.63                     | ---            |
| 2007 04 | ---               | ---                   | ---                    | 36.51                     | ---            |



**CONOCO INC.  
JICARILLA A-13 SURFACE COMMINGLE**

**EXHIBIT C**  
**Gas Analysis Reports (w/BTU content)**

Station Name: JICARILLA A 13    Pictured Cliffs

[illegible][illegible]

SUMMARY OF MOST RECENT GAS ANALYSIS  
GAS ANALYSIS

PAGE 4

Station ID: 35383

Station Name: JICARILLA A 13 MV/DK

|                   |          |          |          |          |          |
|-------------------|----------|----------|----------|----------|----------|
| Analysis No.:     | 209670   | 213458   | 213929   | 218093   | 224683   |
| Analysis Source:  |          |          |          |          |          |
| Lab Identifier:   |          |          |          |          |          |
| Sample From Date: | 10/31/94 | 05/04/95 | 05/23/95 | 06/21/96 | 07/02/97 |
| Sample To Date:   | ??/??/?? | ??/??/?? | ??/??/?? | ??/??/?? | ??/??/?? |
| Analyzed Date:    | 11/01/94 | 05/05/95 | 05/25/95 | 06/24/96 | 07/11/97 |
| Effective Date:   | 10/11/94 | 05/04/95 | 05/23/95 | 06/21/96 | 07/02/97 |

| Components           | Number 1<br>Mol % | Number 2<br>Mol % | Number 3<br>Mol % | Number 4<br>Mol % | Number 5<br>Mol % | Number 6<br>Mol % | Number 7<br>Mol % |
|----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Methane C1           | 81.6500           | 81.1500           | 80.2400           | 78.6700           | 80.7800           |                   |                   |
| Ethane C2            | 10.1100           | 10.4100           | 10.8600           | 11.2300           | 10.3400           |                   |                   |
| Propane C3           | 4.0900            | 4.2600            | 4.5600            | 4.8400            | 4.4800            |                   |                   |
| Iso-butane IC4       | 0.7400            | 0.7300            | 0.7900            | 0.8000            | 0.7800            |                   |                   |
| Normal-butane NC4    | 1.1000            | 1.1300            | 1.2400            | 1.3300            | 1.2200            |                   |                   |
| Iso-pentane IC5      | 0.4200            | 0.4100            | 0.4400            | 0.5100            | 0.4200            |                   |                   |
| Normal-pentane NC5   | 0.2900            | 0.3000            | 0.3100            | 0.4400            | 0.3000            |                   |                   |
| Hexanes C6           | 0.6900            | 0.6500            | 0.6000            | 0.7700            | 0.6800            |                   |                   |
| Heptanes C7          | 0.0000            | 0.0000            | 0.0000            | 0.0000            | 0.0000            |                   |                   |
| Octanes C8           |                   |                   |                   |                   |                   |                   |                   |
| Nonanes C9           | 0.0000            | 0.0000            | 0.0000            | 0.0000            | 0.0000            |                   |                   |
| Decanes C10          | 0.0000            | 0.0000            | 0.0000            | 0.0000            | 0.0000            |                   |                   |
| Nitrogen N2          | 0.2100            | 0.2600            | 0.3000            | 0.6900            | 0.3800            |                   |                   |
| Carbon Dioxide CO2   | 0.7000            | 0.6800            | 0.6700            | 0.7200            | 0.6300            |                   |                   |
| Carbon Monoxide CO   | 0.0000            | 0.0000            | 0.0000            | 0.0000            | 0.0000            |                   |                   |
| Hydrogen Sulfide H2S | 0.0000            | 0.0000            | 0.0000            | 0.0000            | 0.0000            |                   |                   |
| Helium HE            | 0.0000            | 0.0000            | 0.0000            | 0.0000            | 0.0000            |                   |                   |
| Specific Gravity:    | 0.7101            | 0.7128            | 0.7196            | 0.7374            | 0.7183            |                   |                   |
| Ideal Specific Grav: | 0.0000            | 0.0000            | 0.0000            | 0.0000            | 0.0000            |                   |                   |
| Dry BTU :            | 1235.0000         | 1239.0000         | 1249.0000         | 1270.0000         | 1247.0000         |                   |                   |
| Pressure Base:       | 14.7300           | 14.7300           | 14.7300           | 14.7300           | 14.7300           |                   |                   |
| Ideal BTU:           | 0.0000            | 0.0000            | 0.0000            | 0.0000            | 0.0000            |                   |                   |
| Z-Factor:            | 0.9965            | 0.9965            | 0.9965            | 0.9965            | 0.9965            |                   |                   |

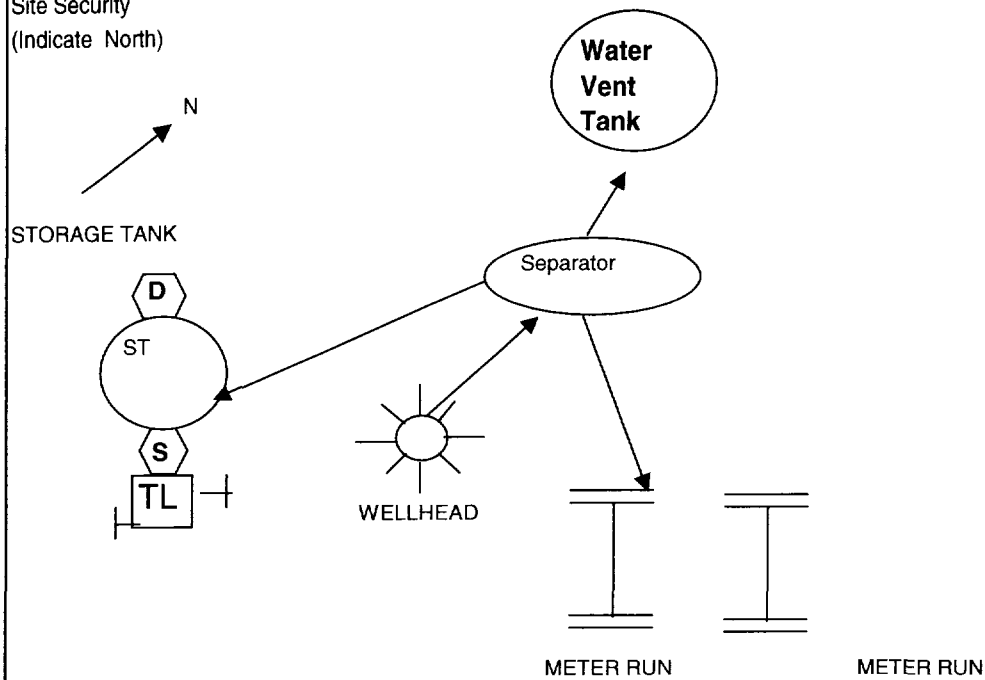
GPM

|                    |       |       |       |       |       |  |  |
|--------------------|-------|-------|-------|-------|-------|--|--|
| Ethane C2          | 2.702 | 2.782 | 2.903 | 3.002 | 2.764 |  |  |
| Propane C3         | 1.126 | 1.173 | 1.256 | 1.333 | 1.234 |  |  |
| Iso-butane IC4     | 0.242 | 0.239 | 0.258 | 0.262 | 0.255 |  |  |
| Normal-butane NC4  | 0.347 | 0.356 | 0.391 | 0.419 | 0.385 |  |  |
| Iso-pentane IC5    | 0.154 | 0.150 | 0.161 | 0.187 | 0.154 |  |  |
| Normal-pentane NC5 | 0.105 | 0.109 | 0.112 | 0.159 | 0.109 |  |  |
| Hexanes C6         | 0.301 | 0.284 | 0.262 | 0.336 | 0.297 |  |  |
| Heptanes C7        | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |  |  |
| Octanes C8         | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |  |  |
| Nonanes C9         | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |  |  |
| Decanes C10        | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |  |  |

**CONOCO INC.  
JICARILLA A-13 SURFACE COMMINGLE**

**EXHIBIT D**  
**Facility Schematic**

Site Security  
(Indicate North)



Lease Name: Jicarilla A 13  
Federal/ Indian Lease No: Contract 105  
CA No.:   
Unit : E  
Legal Description: Sec 13 - T26N-R04W  
County: Rio Arriba

Load line valves :  
Sealed during Production

Drain line valves :  
Sealed during Production

Production Line valve:  
Sealed during sales

This lease is subject to the site security plan for  
San Juan Basin Operations. The plan is located at:  
Conoco Inc.  
3315 Bloomfield Hwy  
Farmington, NM

Lease Name:

Operator: CONOCO INC.

Date:

|                                                           |   |                                         |               |                            |                                   |               |  |
|-----------------------------------------------------------|---|-----------------------------------------|---------------|----------------------------|-----------------------------------|---------------|--|
| Earthen pits:                                             | # | Type: (vent, sep, H2O etc)              | Size:         | Oil Stained Yes No         |                                   |               |  |
|                                                           |   |                                         |               |                            |                                   |               |  |
| Steel pits:                                               | 1 | Type: (vent, sep, H2O etc)              | Size:         |                            |                                   |               |  |
|                                                           |   | STEEL PIT                               |               | 95 BBL                     |                                   |               |  |
| Storage Tanks:                                            | 1 | Water/Oil                               | Bbls.         | Ht.                        | Dia.                              | Color:        |  |
|                                                           |   | OIL                                     | 300           | 15                         | 12                                | GREEN         |  |
|                                                           |   | Avg. volume stored:                     |               | Annual                     |                                   | Sep Psi.      |  |
|                                                           |   |                                         | 180           | thruput:                   |                                   | 500 Upstream: |  |
| Natural Gas Fired Vessels:<br>(Htr/trt, Sep, Glycol Reb.) |   | Water/Oil                               | Bbls.         | Ht.                        | Dia.                              | Color:        |  |
|                                                           |   | Avg. volume stored:                     |               | Annual                     |                                   | Sep Psi.      |  |
|                                                           |   |                                         |               | thruput:                   |                                   | Upstream:     |  |
|                                                           |   | Type/size:                              | MFR:          | Vessel Size (btu/hr)       |                                   |               |  |
| Glycol Dehy's                                             |   | PRODUCTION UNIT                         |               | AMERICAN                   |                                   | 350000        |  |
|                                                           |   | 16" X 6' 3 PH                           |               |                            |                                   |               |  |
|                                                           |   |                                         |               |                            |                                   |               |  |
|                                                           |   |                                         |               |                            |                                   |               |  |
| Compressor                                                |   | Glycol flowrate (gpm)                   |               | Design                     | Actual                            |               |  |
|                                                           |   | Natural gas rate (mmcf/d):              |               | Design                     | Glycol type (TEG, DEG, EG, Other) |               |  |
| SPCC                                                      |   | Engine description (include LxWxH)      |               |                            |                                   |               |  |
|                                                           |   | Ht of Ex Stack above Equip:             |               | Comp Mfr:                  |                                   |               |  |
|                                                           |   | Max RPM's run on sustained basis:       |               |                            |                                   |               |  |
| Chem Storage (bulk)                                       |   | Top                                     | Bottom        | Distance from water source |                                   |               |  |
|                                                           |   |                                         |               |                            |                                   |               |  |
| Asbestos                                                  |   | Chemical Vendor                         | Chemical Name | Quantity Stored            | # of Bulk Containers              |               |  |
|                                                           |   |                                         |               |                            |                                   |               |  |
| H2S                                                       |   | Is tin on vessel torn, punctured, etc.? |               |                            |                                   |               |  |
|                                                           |   | Insulation visible?                     |               |                            |                                   |               |  |
| Remarks:                                                  |   | Other                                   |               |                            |                                   |               |  |
|                                                           |   |                                         |               |                            |                                   |               |  |
|                                                           |   | PPM                                     |               |                            |                                   |               |  |
|                                                           |   |                                         |               |                            |                                   |               |  |
|                                                           |   |                                         |               |                            |                                   |               |  |
|                                                           |   |                                         |               |                            |                                   |               |  |
|                                                           |   |                                         |               |                            |                                   |               |  |
|                                                           |   |                                         |               |                            |                                   |               |  |
|                                                           |   |                                         |               |                            |                                   |               |  |
|                                                           |   |                                         |               |                            |                                   |               |  |



**CONOCO INC.  
JICARILLA A-13 SURFACE COMMINGLE**

**EXHIBIT E**  
**Wellbore Diagram and Well Summary**

## Current Schematic

|              |              |                  |                                |                         |       |                         |       |                                |            |                |            |
|--------------|--------------|------------------|--------------------------------|-------------------------|-------|-------------------------|-------|--------------------------------|------------|----------------|------------|
| API          | 300392039500 | Field Name       | BASIN DK/BLANCO MV/TAPACITO PC | Area                    | SOUTH | Operator                |       | County                         | RIO ARRIBA | State/Province | NEW MEXICO |
| KB Elev (ft) | 6890.00      | Ground Elev (ft) | 6880.00                        | Casing Flange Elev (ft) | 0.00  | KB-Ground Distance (ft) | 10.00 | KB-Casing Flange Distance (ft) | 6890.00    | Spud Date      | 9/8/1971   |

Main Hole: 2/12/2002

| ftKB (MD) | inc | ftKB (TVD)                           | Schematic - Actual |  | Actual   |
|-----------|-----|--------------------------------------|--------------------|--|----------|
|           |     |                                      |                    |  | P S D Cr |
| 0         |     |                                      |                    |  |          |
| 10        |     |                                      |                    |  |          |
| 229       |     |                                      |                    |  |          |
| 299       |     |                                      |                    |  |          |
| 305       |     |                                      |                    |  |          |
| 3558      |     |                                      |                    |  |          |
| 3570      |     |                                      |                    |  |          |
| 3571      |     |                                      |                    |  |          |
| 3579      |     |                                      |                    |  |          |
| 3622      |     |                                      |                    |  |          |
| 3645      |     | Perf, 9/26/1971,<br>58.0-3,622.0ftKB |                    |  |          |
| 3653      |     |                                      |                    |  |          |
| 3670      |     |                                      |                    |  |          |
| 3735      |     |                                      |                    |  |          |
| 3742      |     |                                      |                    |  |          |
| 3797      |     |                                      |                    |  |          |
| 3800      |     |                                      |                    |  |          |
| 5648      |     | Perf, 9/27/1994,<br>48.0-5,771.0ftKB |                    |  |          |
| 5771      |     |                                      |                    |  |          |
| 7746      |     | Perf, 9/26/1971,<br>46.0-7,794.0ftKB |                    |  |          |
| 7794      |     |                                      |                    |  |          |
| 7824      |     |                                      |                    |  |          |
| 7825      |     |                                      |                    |  |          |
| 7856      |     |                                      |                    |  |          |
| 7857      |     |                                      |                    |  |          |
| 7858      |     |                                      |                    |  |          |
| 7858      |     |                                      |                    |  |          |
| 7884      |     | Perf, 9/26/1971,<br>34.0-7,941.0ftKB |                    |  |          |
| 7941      |     |                                      |                    |  |          |
| 7992      |     |                                      |                    |  |          |
| 8000      |     |                                      |                    |  |          |

## Well Summary

|                         |                                              |                                 |                                  |                                           |                              |
|-------------------------|----------------------------------------------|---------------------------------|----------------------------------|-------------------------------------------|------------------------------|
| API<br>300392039500     | Field Name<br>BASIN DK/BLANCO MV/TAPACITO PC | Area<br>SOUTH                   | Operator                         | County<br>RIO ARRIBA                      | State/Province<br>NEW MEXICO |
| KB Elev (ft)<br>6890.00 | Ground Elev (ft)<br>6880.00                  | Casing Flange Elev (ft)<br>0.00 | KB-Ground Distance (ft)<br>10.00 | KB-Casing Flange Distance (ft)<br>6890.00 | Spud Date<br>9/8/1971        |

## Location

|                                     |                                            |                                     |                       |
|-------------------------------------|--------------------------------------------|-------------------------------------|-----------------------|
| East-West Distance (ft)<br>790.0    | From E or W Line<br>W                      | North-South Distance (ft)<br>1850.0 | From N or S Line<br>N |
| Latitude (DMS)<br>36° 29' 19.032" N | Longitude (DMS)<br>107° 12' 32.4" W        |                                     |                       |
| Legal Survey Type<br>Dwight's       | Surface Legal Location<br>NMPM-26N-4W-13-E |                                     |                       |

## Wellhead

|                     |             |              |                        |                               |
|---------------------|-------------|--------------|------------------------|-------------------------------|
| Section             | Make        | Model        | Working Pressure (psi) | Service                       |
| Top Connection Type | Top Sz (in) | Top WP (psi) | Bottom Connection Type | Botm Sz (in)<br>Botm WP (psi) |

## Wellbore

|                   |              |             |
|-------------------|--------------|-------------|
| Name<br>Main Hole | Profile Type | VS Dir (°)  |
| Sz (in)           | Top (ftKB)   | Botm (ftKB) |
| 13 3/4            | 10.0         | 305.0       |
| 9 7/8             | 305.0        | 3,800.0     |
| 6 3/4             | 3,800.0      | 8,000.0     |
|                   | Start        | End         |
|                   |              | 9/9/1971    |
|                   |              | 9/14/1971   |
|                   |              | 9/19/1971   |

## Zones

|                |                              |            |               |
|----------------|------------------------------|------------|---------------|
| Zone           | Pool                         | Top (ftKB) | Bottom (ftKB) |
| Producing Zone | Dakota/Mesaverde/F<br>Cliffs | 0.0        |               |

## Casing Strings

| Des                 | Run       | Botm (ftKB) | Com                                |
|---------------------|-----------|-------------|------------------------------------|
| SURFACE CASING      | 9/9/1971  | 299.0       |                                    |
| INTERMEDIATE CASING | 9/14/1971 | 3,797.0     |                                    |
| PRODUCTION LINER    | 9/20/1971 | 7,992.0     | WV Tagged Fill @ 7859',<br>5/12/97 |

## Perforations

| Date      | Top (ftKB) | Botm (ftKB) | Shot Dens<br>(shots/ft) |
|-----------|------------|-------------|-------------------------|
| 9/26/1971 | 3,558.0    | 3,622.0     | 0.3                     |
| 9/27/1994 | 5,648.0    | 5,771.0     | 0.3                     |
| 9/26/1971 | 7,746.0    | 7,794.0     | 0.3                     |
| 9/26/1971 | 7,884.0    | 7,941.0     | 0.3                     |

## Tubing Strings

| Des                        | Run       | Pulled   | Botm (ftKB) |
|----------------------------|-----------|----------|-------------|
| Tubing (PC)                | 1/10/1997 | 2/4/2002 | 3,579.0     |
| Tubing (MV/DK)             | 1/10/1997 | 2/4/2002 | 7,857.0     |
| Tubing - Production(MV/DK) | 2/12/2002 |          | 7,858.0     |

## Rods

| Des | Run | Pulled | Botm (ftKB) |
|-----|-----|--------|-------------|
|     |     |        |             |
|     |     |        |             |
|     |     |        |             |

## Other In Hole

| Des | Run | Pull | Top (ftKB) | OD (in) | ID (in) |
|-----|-----|------|------------|---------|---------|
|     |     |      |            |         |         |
|     |     |      |            |         |         |
|     |     |      |            |         |         |

## Logs

| Date      | Type                     | Incr (ftKB) | Hole      |
|-----------|--------------------------|-------------|-----------|
| 9/13/1971 | IND (WV54 LogRun)        |             | Main Hole |
| 9/19/1971 | DEN (WV54 LogRun)        |             | Main Hole |
| 9/19/1971 | OH TEMP (WV54<br>LogRun) |             | Main Hole |
| 9/25/1971 | GR-C (WV54 LogRun)       |             | Main Hole |

## Pumping Unit

|                      |                           |                            |                            |
|----------------------|---------------------------|----------------------------|----------------------------|
| Type                 | Make                      | Model                      | Serial Number              |
| Installation Date    | Maximum Rod Load (100lbf) | Current Stroke Length (in) | Maximum Stroke Length (in) |
| Gear Box Description | Gear Box SN               | Gear Box Ratio             | Max In Torq (1000in-lbs)   |
|                      |                           |                            | Last Overhaul Date         |

## Well Summary

|                         |                                              |                                 |                                  |                                           |                              |
|-------------------------|----------------------------------------------|---------------------------------|----------------------------------|-------------------------------------------|------------------------------|
| API<br>300392039500     | Field Name<br>BASIN DK/BLANCO MV/TAPACITO PC | Area<br>SOUTH                   | Operator                         | County<br>RIO ARRIBA                      | State/Province<br>NEW MEXICO |
| KB Elev (ft)<br>6890.00 | Ground Elev (ft)<br>6880.00                  | Casing Flange Elev (ft)<br>0.00 | KB-Ground Distance (ft)<br>10.00 | KB-Casing Flange Distance (ft)<br>6890.00 | Spud Date<br>9/8/1971        |

## Location

|                                     |                                            |                                     |                       |
|-------------------------------------|--------------------------------------------|-------------------------------------|-----------------------|
| East-West Distance (ft)<br>790.0    | From E or W Line<br>W                      | North-South Distance (ft)<br>1850.0 | From N or S Line<br>N |
| Latitude (DMS)<br>36° 29' 19.032" N | Longitude (DMS)<br>107° 12' 32.4" W        |                                     |                       |
| Legal Survey Type<br>Dwight's       | Surface Legal Location<br>NMPM-26N-4W-13-E |                                     |                       |

## Wellhead

|                     |             |              |                        |             |              |
|---------------------|-------------|--------------|------------------------|-------------|--------------|
| Section             | Make        | Model        | Working Pressure (psi) | Service     |              |
| Top Connection Type | Top Sz (in) | Top WP (psi) | Bottom Connection Type | Btm Sz (in) | Btm WP (psi) |

## Wellbore

## Zones

## Casing Strings

| Des | Run | Btm (ftKB) | Com |
|-----|-----|------------|-----|
|     |     |            |     |

## Perforations

| Date | Top (ftKB) | Btm (ftKB) | Shot Dens (shots/ft) |
|------|------------|------------|----------------------|
|      |            |            |                      |

## Tubing Strings

| Des                    | Run       | Pulled | Btm (ftKB) |
|------------------------|-----------|--------|------------|
| Tubing - PC Production | 2/12/2002 |        | 3,579.0    |

## Rods

| Des | Run | Pulled | Btm (ftKB) |
|-----|-----|--------|------------|
|     |     |        |            |

## Other In Hole

| Des | Run | Pull | Top (ftKB) | OD (in) | ID (in) |
|-----|-----|------|------------|---------|---------|
|     |     |      |            |         |         |

## Logs

| Date | Type | Incr (ftKB) | Hole |
|------|------|-------------|------|
|      |      |             |      |

## Pumping Unit

|                      |                           |                            |                            |                    |
|----------------------|---------------------------|----------------------------|----------------------------|--------------------|
| Type                 | Make                      | Model                      | Serial Number              |                    |
| Installation Date    | Maximum Rod Load (100lbf) | Current Stroke Length (in) | Maximum Stroke Length (in) | Sheave Size (in)   |
| Gear Box Description | Gear Box SN               | Gear Box Ratio             | Max In Torq (1000in-lbs)   | Last Overhaul Date |

**CONOCO INC.  
JICARILLA A-13 SURFACE COMMINGLE**

**EXHIBIT F**

**Administrative order DHC-1334  
Allocation percentages for all zones surface commingled**



NEW MEXICO ENERGY, MINERALS  
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
2040 South Pacheco Street  
Santa Fe, New Mexico 87505  
(505) 827-7131

*File*

ADMINISTRATIVE ORDER DHC-1334

*30-039-50395*

Conoco, Inc.  
10 Desta Drive, Suite 100W  
Midland, Texas 79705-4500

Attention: Jerry W. Hoover

*Jicarilla 'A' Well No.13  
Unit 'E', Section 13, Township 26 North, Range 4 West,  
Rio Arriba County, New Mexico.  
Blanco Mesaverde (Prorated Gas - 72319) and  
Basin Dakota (Prorated Gas - 71599) Pools*

Dear Mr. Hoover:

Reference is made to your recent application for an exception to Rule 303.A. of the Division Rules and Regulations to permit the subject well to commingle production from both pools in the wellbore.

It appearing that the subject well qualifies for approval for such exception pursuant to the provisions of Rule 303.C., and that reservoir damage or waste will not result from such downhole commingling, and correlative rights will not be violated thereby, you are hereby authorized to commingle the production as described above and any Division Order which authorized the dual completion and required separation of the two zones is hereby placed in abeyance.

The maximum amount of gas which may be produced daily from the well shall be determined by Division Rules and Regulations or by the gas allowable for each respective prorated pool as printed in the Division's San Juan Basin Gas Proration Schedule.

Assignment of allowable to the wells and allocation of production from the wells shall be on the following basis:

|                       |         |         |
|-----------------------|---------|---------|
| Blanco Mesaverde Pool | Oil 22% | Gas 65% |
| Basin Dakota Pool     | Oil 78% | Gas 35% |

FURTHER: The operator shall notify the Aztec District Office of the Division upon implementation of the commingling process.

Pursuant to Rule 303.H., the commingling authority granted by the order may be rescinded by the Division Director if, in his opinion, conservation is not being best served by such commingling.

*Administrative Order DHC-1334*

*Conoco, Inc.*

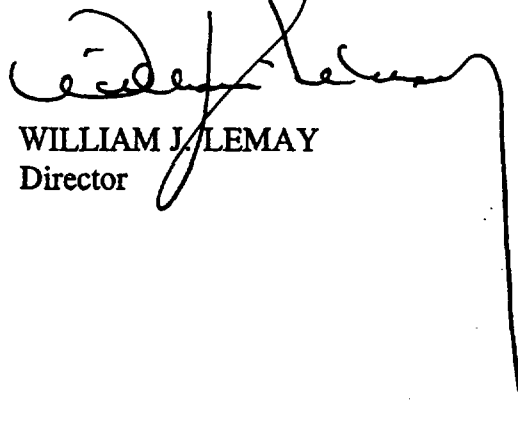
*August 28, 1996*

*Page 2*

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Approved at Santa Fe, New Mexico on this 28th day of August, 1996.

STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION

A handwritten signature in black ink, appearing to read 'William J. Lemay', is written over the typed name and title. The signature is fluid and cursive, with a long, sweeping line extending from the end of the name down towards the bottom right of the page.

WILLIAM J. LEMAY  
Director

SEAL

WJL/BES

cc: Oil Conservation Division - Aztec  
Bureau of Land Management - Farmington



| Jicarilla A-13<br>Mesaverde/Dakota Production per year<br>Starting 9/2002 |                   |                  |  |  |
|---------------------------------------------------------------------------|-------------------|------------------|--|--|
| Year                                                                      | Gas Rate<br>Mcfpd | Oil Rate<br>Bopd |  |  |
| 2002                                                                      | 126.2             | 1.71             |  |  |
| 2003                                                                      | 122.0             | 1.63             |  |  |
| 2004                                                                      | 116.3             | 1.55             |  |  |
| 2005                                                                      | 110.9             | 1.48             |  |  |
| 2006                                                                      | 105.8             | 1.41             |  |  |
| 2007                                                                      | 100.9             | 1.35             |  |  |
| 2008                                                                      | 96.2              | 1.28             |  |  |
| 2009                                                                      | 91.7              | 1.22             |  |  |
| 2010                                                                      | 87.5              | 1.17             |  |  |
| 2011                                                                      | 83.4              | 1.11             |  |  |
| 2012                                                                      | 79.6              | 1.06             |  |  |
| 2013                                                                      | 75.9              | 1.01             |  |  |
| 2014                                                                      | 72.4              | 0.97             |  |  |
| 2015                                                                      | 69.0              | 0.92             |  |  |
| 2016                                                                      | 65.8              | 0.88             |  |  |
| 2017                                                                      | 62.8              | 0.84             |  |  |
| 2018                                                                      | 59.9              | 0.80             |  |  |
| 2019                                                                      | 57.1              | 0.76             |  |  |
| 2020                                                                      | 54.5              | 0.73             |  |  |
| 2021                                                                      | 52.0              | 0.69             |  |  |
| 2022                                                                      | 49.6              | 0.66             |  |  |
| 2023                                                                      | 47.3              | 0.63             |  |  |
| 2024                                                                      | 45.1              | 0.60             |  |  |
| 2025                                                                      | 43.0              | 0.57             |  |  |
| 2026                                                                      | 41.1              | 0.55             |  |  |
| 2027                                                                      | 39.2              | 0.52             |  |  |
| 2028                                                                      | 37.4              | 0.50             |  |  |
| 2029                                                                      | 35.7              | 0.48             |  |  |
| 2030                                                                      | 34.0              | 0.45             |  |  |
| 2031                                                                      | 32.5              | 0.43             |  |  |
| 2032                                                                      | 31.0              | 0.41             |  |  |
| 2033                                                                      | 29.6              | 0.39             |  |  |
| 2034                                                                      | 28.2              | 0.38             |  |  |
| 2035                                                                      | 26.9              | 0.32             |  |  |
| 2036                                                                      | 23.0              | 0.19             |  |  |
| 2037                                                                      | 13.9              | 0.18             |  |  |
| 2038                                                                      | 13.2              | 0.18             |  |  |
| 2039                                                                      | 12.5              | 0.17             |  |  |
| 2040                                                                      | 11.9              | 0.16             |  |  |
| 2041                                                                      | 11.3              | 0.15             |  |  |
| 2042                                                                      | 10.7              | 0.14             |  |  |
| 2043                                                                      | 10.2              | 0.14             |  |  |
| 2044                                                                      | 9.7               | 0.13             |  |  |
| 2045                                                                      | 9.2               | 0.00             |  |  |

| Jicarilla A-13<br>Forecasted Pictured Cliffs per year<br>Starting 9/2002 |                   |                  |                       |  |
|--------------------------------------------------------------------------|-------------------|------------------|-----------------------|--|
| Year                                                                     | Gas Rate<br>Mcfpd | Oil Rate<br>Bopd | Percent<br>Allocation |  |
| 2002                                                                     | 35.0              | 0.00             | 21.71%                |  |
| 2003                                                                     | 33.4              | 0.00             | 21.49%                |  |
| 2004                                                                     | 31.5              | 0.00             | 21.33%                |  |
| 2005                                                                     | 29.8              | 0.00             | 21.17%                |  |
| 2006                                                                     | 28.1              | 0.00             | 21.01%                |  |
| 2007                                                                     | 26.6              | 0.00             | 20.85%                |  |
| 2008                                                                     | 25.1              | 0.00             | 20.69%                |  |
| 2009                                                                     | 23.7              | 0.00             | 20.53%                |  |
| 2010                                                                     | 22.4              | 0.00             | 20.37%                |  |
| 2011                                                                     | 21.1              | 0.00             | 20.21%                |  |
| 2012                                                                     | 20.0              | 0.00             | 20.06%                |  |
| 2013                                                                     | 18.8              | 0.00             | 19.90%                |  |
| 2014                                                                     | 17.8              | 0.00             | 19.75%                |  |
| 2015                                                                     | 16.8              | 0.00             | 19.59%                |  |
| 2016                                                                     | 15.9              | 0.00             | 19.43%                |  |
| 2017                                                                     | 15.0              | 0.00             | 19.28%                |  |
| 2018                                                                     | 14.2              | 0.00             | 19.13%                |  |
| 2019                                                                     | 13.4              | 0.00             | 18.97%                |  |
| 2020                                                                     | 12.6              | 0.00             | 18.82%                |  |
| 2021                                                                     | 11.9              | 0.00             | 18.66%                |  |
| 2022                                                                     | 11.3              | 0.00             | 18.51%                |  |
| 2023                                                                     | 10.6              | 0.00             | 18.36%                |  |
| 2024                                                                     | 10.2              | 0.00             | 18.39%                |  |
| 2025                                                                     | 9.8               | 0.00             | 18.51%                |  |
| 2026                                                                     | 9.4               | 0.00             | 18.64%                |  |
| 2027                                                                     | 9.1               | 0.00             | 18.76%                |  |
| 2028                                                                     | 8.7               | 0.00             | 18.89%                |  |
| 2029                                                                     | 8.4               | 0.00             | 19.02%                |  |
| 2030                                                                     | 8.1               | 0.00             | 19.14%                |  |
| 2031                                                                     | 7.8               | 0.00             | 19.27%                |  |
| 2032                                                                     | 7.5               | 0.00             | 19.40%                |  |
| 2033                                                                     | 7.2               | 0.00             | 19.53%                |  |
| 2034                                                                     | 6.9               | 0.00             | 19.65%                |  |
| 2035                                                                     | 6.6               | 0.00             | 19.78%                |  |
| 2036                                                                     | 6.4               | 0.00             | 21.76%                |  |
| 2037                                                                     | 6.1               | 0.00             | 30.68%                |  |
| 2038                                                                     | 5.9               | 0.00             | 30.95%                |  |
| 2039                                                                     | 5.7               | 0.00             | 31.22%                |  |
| 2040                                                                     | 5.5               | 0.00             | 31.49%                |  |
| 2041                                                                     | 5.3               | 0.00             | 31.76%                |  |
| 2042                                                                     | 5.1               | 0.00             | 32.03%                |  |
| 2043                                                                     | 4.9               | 0.00             | 32.31%                |  |
| 2044                                                                     | 4.7               | 0.00             | 32.58%                |  |
| 2045                                                                     | 4.5               | 0.00             | 32.85%                |  |

| Jicarilla A-13<br>Combined PC, MV and Dakota<br>Starting 9/2002 |                   |                  |  |  |
|-----------------------------------------------------------------|-------------------|------------------|--|--|
| Year                                                            | Gas Rate<br>Mcfpd | Oil Rate<br>Bopd |  |  |
| 2002                                                            | 161.2             | 1.71             |  |  |
| 2003                                                            | 155.4             | 1.63             |  |  |
| 2004                                                            | 147.9             | 1.55             |  |  |
| 2005                                                            | 140.7             | 1.48             |  |  |
| 2006                                                            | 133.9             | 1.41             |  |  |
| 2007                                                            | 127.4             | 1.35             |  |  |
| 2008                                                            | 121.3             | 1.28             |  |  |
| 2009                                                            | 115.4             | 1.22             |  |  |
| 2010                                                            | 109.8             | 1.17             |  |  |
| 2011                                                            | 104.6             | 1.11             |  |  |
| 2012                                                            | 99.5              | 1.06             |  |  |
| 2013                                                            | 94.7              | 1.01             |  |  |
| 2014                                                            | 90.2              | 0.97             |  |  |
| 2015                                                            | 85.8              | 0.92             |  |  |
| 2016                                                            | 81.7              | 0.88             |  |  |
| 2017                                                            | 77.8              | 0.84             |  |  |
| 2018                                                            | 74.0              | 0.80             |  |  |
| 2019                                                            | 70.5              | 0.76             |  |  |
| 2020                                                            | 67.1              | 0.73             |  |  |
| 2021                                                            | 63.9              | 0.69             |  |  |
| 2022                                                            | 60.8              | 0.66             |  |  |
| 2023                                                            | 57.9              | 0.63             |  |  |
| 2024                                                            | 55.3              | 0.60             |  |  |
| 2025                                                            | 52.8              | 0.57             |  |  |
| 2026                                                            | 50.5              | 0.55             |  |  |
| 2027                                                            | 48.2              | 0.52             |  |  |
| 2028                                                            | 46.1              | 0.50             |  |  |
| 2029                                                            | 44.0              | 0.48             |  |  |
| 2030                                                            | 42.1              | 0.45             |  |  |
| 2031                                                            | 40.2              | 0.43             |  |  |
| 2032                                                            | 38.4              | 0.41             |  |  |
| 2033                                                            | 36.7              | 0.39             |  |  |
| 2034                                                            | 35.1              | 0.38             |  |  |
| 2035                                                            | 33.6              | 0.32             |  |  |
| 2036                                                            | 29.3              | 0.19             |  |  |
| 2037                                                            | 20.0              | 0.18             |  |  |
| 2038                                                            | 19.1              | 0.18             |  |  |
| 2039                                                            | 18.2              | 0.17             |  |  |
| 2040                                                            | 17.4              | 0.16             |  |  |
| 2041                                                            | 16.6              | 0.15             |  |  |
| 2042                                                            | 15.8              | 0.14             |  |  |
| 2043                                                            | 15.1              | 0.14             |  |  |
| 2044                                                            | 14.4              | 0.13             |  |  |
| 2045                                                            | 13.7              | 0.00             |  |  |