

# Bureau of Land Management

## Amarillo Field Office Helium Operations



### Statistical Report for February - 2009



#### *Distribution:*

Fluid Minerals Group Manager, Washington Office  
NMSO, New Mexico State Director  
NMSO, Associate State Director  
NMSO, Petroleum Engineer  
Field Manager, Amarillo Field Office  
Assistant Field Managers (3)  
Team Leaders  
-Federal Leased Lands  
-Resources Evaluation & Gas Analysis  
-Division Of Helium Operations, -  
Engineering and Technical Support

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Amarillo, Texas

Issued: June 16, 2009

**"Please Note: Data in this report is accurate as of print date; however all data is subject to change."**

Approved for distribution: *Nelson R. Bullard*

Date: 06/16/2009

Table 1 - Summary of Helium Operations

February - 2009

**Helium Enrichment Unit Operations**

| Gas Processed       | Month        |            |                 | Gross Cumulative | Net Cumulative |
|---------------------|--------------|------------|-----------------|------------------|----------------|
|                     | Gross Volume | Net Helium | Average Percent |                  |                |
| Plant Feed          | 539,508      | 123,017    | 22.80%          | 40,692,945       | 10,359,238     |
| Helium Product      | 159,143      | 122,412    | 76.92%          | 12,984,411       | 10,200,874     |
| Residue Natural Gas | 257,063      | 1          | 0.00%           | 17,767,856       | 1,198          |

**Natural Gas & Liquids Produced**

| Gas Processed              | Month   | FYTD      |
|----------------------------|---------|-----------|
| Natural Gas Sales (Mcf***) | 281,808 | 1,515,460 |
| NGL Sales (gallons)        | 67,921  | 378,638   |

\*\*\* Volumes in Mcf at 14.73 psia & 60°F

**Bush Dome Reservoir Operations**

| Conservation gases from all sources | Month        |            |                 | Gross Cumulative | Net Cumulative |
|-------------------------------------|--------------|------------|-----------------|------------------|----------------|
|                                     | Gross Volume | Net Helium | Average Percent |                  |                |
| Total Withdrawn                     | 561,946      | 142,326    | 25.33%          | 175,466,891      | 30,195,203     |
| Crude Injection                     | 4,016        | 3,064      | 76.30%          | 65,893,658       | 47,575,780     |
| Crude Production                    | 25,412       | 19,434     | 76.48%          | 965,793          | 706,873        |

**Storage Operations**

| Conservation Helium                  | Month      | FYTD    | CYTD    | Cumulative |
|--------------------------------------|------------|---------|---------|------------|
| Open Market Sale Volumes (Mcf*)      | 12,000     | 589,000 | 325,000 | 9,289,600  |
| Conservation Helium in Storage (EOM) | 18,525,080 |         |         |            |

\* Volumes in Mcf at 14.65 psia & 60°F

**In Kind Helium**

|                          | Month  | FYTD   | CYTD   | Cumulative |
|--------------------------|--------|--------|--------|------------|
| Sale Volumes Transferred | 42,882 | 89,180 | 42,882 | 2,295,116  |
| Sale Volumes Outstanding | 858    |        |        |            |

Volumes in Mcf at 14.65 psia & 60°F

**Private Company Helium Storage Contracts**

| Contact Activity                      | Month        |            |                 | Annual      |
|---------------------------------------|--------------|------------|-----------------|-------------|
|                                       | Gross Volume | Net Helium | Average Percent | Helium FYTD |
| Crude Acquired                        | 65,216       | 44,031     | 67.52%          | 305,129     |
| Crude Disposed                        | 240,956      | 177,979    | 73.86%          | 970,204     |
| Net Balance                           | (175,740)    | (133,948)  |                 | (665,075)   |
| Balance of Stored Helium End Of Month |              | 1,125,010  |                 |             |

Volumes in Mcf at 14.65 psia & 60°F

**Revenue / Charges**

| Helium Storage Contracts (Charges Billed (\$)) | Month     | FYTD        |
|--|-----------|-------------|
| Storage Fees Billed (\$)                       | \$407,644 | \$1,645,457 |
| Reservoir Management Fees Billed (\$)          | \$176,963 | \$895,114   |

**Field Compressor Charges (Charges Billed (\$))**

|  | Month      | FYTD        |
|--|------------|-------------|
| Funded by the Refiners (provides for booster compression services)                               | (\$58,970) | (\$298,826) |
| Cliffside Refiners, LP, by Agreement #GDA010003 (reimburses BLM for fuel, labor, supplies, etc.) | \$14,584   | \$76,896    |
| Net-Total (Funded by the Refiners for compression costs.)  | (\$44,386) | (\$221,931) |

**Enrichment Unit Charges (Charges Billed (\$))**

|   | Month       | FYTD          |
|---|-------------|---------------|
| Reservoir Management Fees (RMF)           | \$176,963   | \$895,114     |
| Total operating costs                     | (\$942,845) | (\$4,798,847) |
| Sub Total - Items provided by BLM         | \$467,319   | \$2,421,218   |
| Total - Cliffside Refiners, LP, GDA030001 | (\$475,526) | (\$2,377,629) |

**Conservation Helium - Natural Gas - Liquid Sales**

|                            | Month     | FYTD         |
|----------------------------|-----------|--------------|
| Open Market Sales          | \$747,000 | \$22,596,750 |
| In Kind Sales              | \$0       | \$2,646,071  |
| Natural Gas & Liquid Sales | \$906,400 | \$5,955,060  |

**Helium Resources Evaluation**

|  | Month          | FYTD          |
|--|----------------|---------------|
| Revenue Collected from Federal Lease Holds | \$712,261      | \$3,232,918   |
| Helium Sample Collection Report for month  | Submitted - 17 | Received - 5  |
|  |                | Analyzed - 56 |

\*Rounded to nearest dollar

Table 2 - Bush Dome Reservoir Operations

February - 2009

|                  |        | Gross Withdrawal |                    | Net Helium Withdrawal |                   | Nitrogen       |                   | Methane        |                   | Ethane plus   |                  | Other (CO2, Ar, H2) |                  |
|------------------|--------|------------------|--------------------|-----------------------|-------------------|----------------|-------------------|----------------|-------------------|---------------|------------------|---------------------|------------------|
|                  |        | Month            | Cumulative         | Month                 | Cumulative        | Month          | Cumulative        | Month          | Cumulative        | Month         | Cumulative       | Month               | Cumulative       |
| <b>TOTAL</b>     |        | <b>561,946</b>   | <b>175,466,891</b> | <b>142,326</b>        | <b>30,195,203</b> | <b>140,328</b> | <b>43,066,877</b> | <b>248,112</b> | <b>91,639,246</b> | <b>26,426</b> | <b>9,113,325</b> | <b>4,753</b>        | <b>1,452,240</b> |
| BIVINS A-3       | Feb-09 | (72)             | 10,086,632         | (43)                  | 3,083,333         | (18)           | 2,553,540         | (10)           | 3,992,174         | (1)           | 389,627          | (1)                 | 67,958           |
| BIVINS A-6       | Feb-09 | 25,412           | 8,039,732          | 19,434                | 4,617,380         | 5,312          | 1,995,022         | 493            | 1,275,749         | 1             | 122,828          | 173                 | 28,753           |
| BIVINS A-13      | Feb-09 | 37,663           | 4,569,277          | 19,116                | 2,829,251         | 9,419          | 1,201,618         | 7,984          | 469,540           | 872           | 48,839           | 272                 | 20,030           |
| BIVINS A-14      | Feb-09 | 55,702           | 5,076,626          | 33,035                | 3,445,927         | 13,924         | 1,301,678         | 7,539          | 280,714           | 788           | 28,327           | 416                 | 19,980           |
| BIVINS A-4       | Feb-09 | 33,422           | 10,475,971         | 10,469                | 1,790,356         | 8,192          | 2,535,922         | 13,056         | 5,513,821         | 1,412         | 544,895          | 293                 | 90,977           |
| BUSH A-2         | Feb-09 | 27,832           | 9,675,949          | 7,064                 | 1,423,874         | 7,058          | 2,351,811         | 12,173         | 5,287,811         | 1,337         | 527,121          | 199                 | 85,332           |
| Injection        | Feb-09 | 4,016            | 65,893,658         | 3,064                 | 47,575,780        | 847            | 17,000,026        | 77             | 769,103           | 0             | 19               | 27                  | 548,731          |
| inj Bivins A-3   | Feb-09 | 0                | (25,652,315)       | 0                     | (18,384,452)      | 0              | (6,554,549)       | 0              | (332,777)         | 0             | 0                | 0                   | (380,537)        |
| inj Bivins A-6   | Feb-09 | (4,016)          | (23,854,237)       | (3,064)               | (17,243,721)      | (847)          | (6,369,782)       | (77)           | (131,639)         | 0             | (10)             | (27)                | (109,086)        |
| inj Bivins A-13  | Feb-09 | 0                | (6,490,417)        | 0                     | (4,706,191)       | 0              | (1,656,853)       | 0              | (122,391)         | 0             | (2)              | 0                   | (4,980)          |
| inj Bivins A-14  | Feb-09 | 0                | (6,501,333)        | 0                     | (4,767,421)       | 0              | (1,602,106)       | 0              | (126,303)         | 0             | (7)              | 0                   | (5,497)          |
| inj Bivins A-4   | Feb-09 | 0                | (2,527,801)        | 0                     | (1,848,815)       | 0              | (601,353)         | 0              | (42,016)          | 0             | 0                | 0                   | (35,617)         |
| inj Bush A-2     | Feb-09 | 0                | (867,658)          | 0                     | (625,258)         | 0              | (215,406)         | 0              | (13,980)          | 0             | 0                | 0                   | (13,015)         |
| Production       | Feb-09 | 25,412           | 965,793            | 19,434                | 706,873           | 5,312          | 209,864           | 493            | 39,628            | 1             | 2,839            | 173                 | 6,590            |
| BIVINS A-1       | Feb-09 | 0                | 2,686,608          | 0                     | 48,896            | 0              | 636,995           | 0              | 1,798,415         | 0             | 175,704          | 0                   | 26,597           |
| BIVINS A-2       | Feb-09 | 13,878           | 12,174,003         | 896                   | 1,788,137         | 3,323          | 2,997,611         | 8,632          | 6,634,484         | 900           | 654,776          | 126                 | 98,995           |
| BIVINS A-5       | Feb-09 | 24,495           | 13,429,770         | 6,542                 | 1,474,220         | 6,234          | 3,268,250         | 10,387         | 7,795,402         | 1,146         | 773,220          | 187                 | 118,678          |
| BIVINS A-7       | Feb-09 | 24,044           | 9,613,063          | 8,222                 | 2,071,737         | 6,269          | 2,402,706         | 8,439          | 4,606,653         | 955           | 460,829          | 159                 | 71,139           |
| BIVINS A-9       | Feb-09 | 31,245           | 8,522,709          | 639                   | 158,631           | 8,061          | 2,073,519         | 20,174         | 5,645,714         | 2,124         | 564,969          | 247                 | 79,877           |
| BIVINS A-11      | Feb-09 | 26,562           | 4,473,753          | 608                   | 85,858            | 6,805          | 1,098,633         | 17,103         | 2,947,860         | 1,806         | 298,815          | 240                 | 42,588           |
| BIVINS A-15      | Feb-09 | 27,451           | 7,370,858          | 586                   | 385,303           | 6,504          | 1,760,827         | 18,191         | 4,686,075         | 1,858         | 465,727          | 312                 | 72,927           |
| BIVINS B-1       | Feb-09 | 32,338           | 5,608,386          | 1,270                 | 229,020           | 7,911          | 1,354,733         | 20,682         | 3,605,499         | 2,155         | 364,517          | 320                 | 54,617           |
| BIVINS B-2       | Feb-09 | 32,068           | 4,316,290          | 613                   | 80,846            | 8,221          | 1,069,563         | 20,582         | 2,823,381         | 2,158         | 287,684          | 494                 | 54,816           |
| BUSH A-1         | Feb-09 | 0                | 5,721,962          | 0                     | 104,140           | 0              | 1,356,677         | 0              | 3,830,281         | 0             | 374,216          | 0                   | 56,647           |
| BUSH A-3         | Feb-09 | 29,524           | 9,355,255          | 14,859                | 1,719,593         | 7,598          | 2,290,454         | 6,118          | 4,786,614         | 708           | 475,542          | 241                 | 83,053           |
| BUSH A-4         | Feb-09 | 27,709           | 6,675,600          | 6,489                 | 1,232,672         | 7,109          | 1,658,237         | 12,566         | 3,394,260         | 1,375         | 340,031          | 170                 | 50,399           |
| BUSH A-5         | Feb-09 | 26,878           | 13,027,844         | 9,289                 | 2,724,838         | 6,868          | 3,255,101         | 9,502          | 6,323,098         | 1,061         | 630,567          | 158                 | 94,240           |
| BUSH A-8         | Feb-09 | 15,315           | 2,979,190          | 283                   | 54,491            | 3,781          | 713,910           | 9,995          | 1,979,451         | 1,035         | 197,543          | 221                 | 33,796           |
| BUSH A-9         | Feb-09 | 17,215           | 3,566,391          | 1,063                 | 88,866            | 4,440          | 855,687           | 10,487         | 2,355,545         | 1,136         | 233,539          | 90                  | 32,755           |
| BUSH A-11        | Feb-09 | 18,671           | 3,306,525          | 655                   | 95,167            | 4,485          | 789,671           | 12,057         | 2,166,840         | 1,245         | 218,441          | 229                 | 36,406           |
| BUSH B-1         | Feb-09 | 9,485            | 3,132,494          | 193                   | 58,850            | 2,284          | 743,188           | 6,265          | 2,094,216         | 659           | 205,448          | 84                  | 30,792           |
| FUQUA A-1        | Feb-09 | 0                | 2,954,071          | 0                     | 53,853            | 0              | 702,791           | 0              | 1,975,156         | 0             | 193,571          | 0                   | 28,699           |
| FUQUA A-2        | Feb-09 | 0                | 132,119            | 0                     | 2,404             | 0              | 31,322            | 0              | 88,458            | 0             | 8,637            | 0                   | 1,297            |
| FUQUA A-3        | Feb-09 | 25,108           | 8,495,915          | 1,045                 | 547,639           | 6,548          | 2,067,433         | 15,697         | 5,282,038         | 1,695         | 527,914          | 123                 | 70,891           |
| TT Fuel          | Feb-09 | 30               | 0                  | 0                     | 0                 | 1              | 0                 | 24             | 0                 | 5             | 0                | 0                   | 0                |
| field-wide pct's |        |                  |                    | 25.33%                | 17.21%            | 24.97%         | 24.54%            | 44.15%         | 52.23%            | 4.70%         | 5.19%            | 0.85%               | 0.83%            |

Latest estimates of reserves and feed to HEU

Based on NITEC's 2003 reserves study from NITEC's interim report

As of EOM Feb-09 Volumes in BCF

|                                     |         |  |
|-------------------------------------|---------|--|
| Initial Gas In Place                | 330.040 |  |
| Produced 1924 to 1961               | 48.830  |  |
| Injected 1924 to 1961               | 0.450   |  |
| Remaining Gas In Place 1961         | 281.660 |  |
| Left Behind Pipe, 1961              | 82.060  | ====> 1.500 BCF of contained helium    |
| Remaining in Place, 1961            | 199.600 |  |
| Gas In Place 1961                   | 199.600 |  |
| Produced 1961 to July 2002          | 82.450  |  |
| Injected 1961 to July 2002          | 64.510  | Net Helium                             |
| Remaining Gas In Place July 2002    | 181.660 | 33.997                                 |
| Produced July 2002 through Dec 2002 | 1.096   | 0.743                                  |
| Production 2003 - 08                | 40.061  | 11.109                                 |
| Injection 2003 - 08                 | (0.790) | (0.614)                                |
| Produced to Date 2009               | 3.029   | 0.757                                  |
| Injected to Date 2009               | (0.095) | (0.073)                                |
| Amount of Raw Gas Available to CHEU | 138.359 | ====> 22.075 total helium in reservoir |
| Estimated Bottom Hole Pressure      | 506.756 | est z-factor 0.975                     |

## Table 3 - Gas Volumes & Inventory

February - 2009

### Crude Helium Enrichment Unit Operations

|                  |        | Gross Withdrawal |            | Net Helium Withdrawal |            | Nitrogen |            | Methane |            | Ethane plus |            | Other (CO <sub>2</sub> , Ar, H <sub>2</sub> ) |            |
|------------------|--------|------------------|------------|-----------------------|------------|----------|------------|---------|------------|-------------|------------|---|------------|
|                  |        | Month            | Cumulative | Month                 | Cumulative | Month    | Cumulative | Month   | Cumulative | Month       | Cumulative | Month   | Cumulative |
| Measured Feed    | Feb-09 | 539,508          | 40,692,945 | 123,017               | 10,359,238 | 135,607  | 10,230,652 | 249,907 | 17,855,315 | 26,377      | 1,904,250  | 4,601   | 343,490    |
| Calculated Feed  | Feb-09 | 536,504          | 40,552,645 | 122,893               | 10,375,962 | 135,015  | 10,198,092 | 247,595 | 17,741,321 | 26,421      | 1,894,624  | 4,580   | 342,647    |
| Feed to Box      | Feb-09 | 533,037          | 40,317,004 | 122,893               | 10,376,140 | 135,015  | 10,198,174 | 247,595 | 17,741,367 | 26,421      | 1,894,630  | 1,113   | 106,693    |
| Cheu Product     | Feb-09 | 159,143          | 12,984,411 | 122,412               | 10,200,874 | 32,529   | 2,439,414  | 3,106   | 253,713    | 0           | 299        | 1,096   | 90,111     |
| Residue          | Feb-09 | 257,063          | 17,767,856 | 1                     | 1,198      | 6,109    | 436,990    | 228,293 | 15,748,407 | 22,660      | 1,580,051  | 0   | 1,211      |
| Cold Box Vent    | Feb-09 | 90,672           | 7,214,580  | 70                    | 81,578     | 82,679   | 6,205,390  | 7,916   | 867,770    | (0)         | 137        | 8   | 59,707     |
| Flare/Boot Strap | Feb-09 | 0                | 723,164    | 0                     | 38,162     | 0        | 292,735    | 0       | 301,340    | 0           | 85,756     | 0   | 5,170      |
| Fuel From Cheu   | Feb-09 | 8,217            | 555,978    | 0                     | 245        | 199      | 16,154     | 6,705   | 450,937    | 1,313       | 88,642     | 0   | 0          |
| Shrinkage/Loss   | Feb-09 | 2,448            | 135,026    | 0                     | 0          | 0        | 0          | 0       | 0          | 2,448       | 135,026    | 0   | 0          |
| Unaccounted*     | Feb-09 | 15,494           | 970,587    | 410                   | 51,625     | 13,500   | 821,971    | 1,575   | 94,449     | 0           | 1,082      | 9   | 1,460      |

\*Before October 2004, the values are estimated

### Storage Operations

#### Inventory (contained helium)

|                                   | Government | Private   |
|-----------------------------------|------------|-----------|
| Beginning inventory               | 18,585,594 | 1,204,076 |
| net acceptances +<br>redeliveries | 0          | 0         |
|                                   | 0          | (133,948) |
| In Kind Transfers                 | (42,882)   | 42,882    |
| Open Market Sales                 | (12,000)   | 12,000    |
| Gain/loss                         | (5,632)    |           |
| Ending Inventory                  | 18,525,080 | 1,125,010 |
| Total Helium in Reservoir         | 22,074,998 |           |
| Total Helium in Storage           | 19,650,090 |           |
| Helium in native gas              | 2,424,908  |           |

#### Crude Helium Pipeline

|  | Gross   | Net Helium | Percent |
|--|---------|------------|---------|
| Beginning inventory                    | 44,766  | 33,925     | 75.78%  |
| Measured to Pipeline (Private Plants)  | 65,280  | 44,062     | 67.50%  |
| Measured from Pipeline (Private Plant: | 241,020 | 177,979    | 73.84%  |
| HEU Production                         | 159,143 | 122,412    | 76.92%  |
| Injection                              | 4,016   | 3,064      | 76.30%  |
| Production                             | 25,412  | 19,434     | 76.48%  |
| Ending Inventory                       | 44,726  | 33,157     | 74.13%  |
| Gain/Loss                              | (4,838) | (5,632)    |         |

### Tuck Trigg Reservoir Operations

| Native Gas (Gross)                   | Since Field |             |           |
|--------------------------------------|-------------|-------------|-----------|
|                                      | Month       | Fiscal Year | Discovery |
| Total in place, beg. of period       | 5,198,688   | 5,198,688   | 5,890,000 |
| Recoverable in place, beg. of period | 4,528,688   | 4,528,688   | 5,220,000 |
| Production during period to date     | 0           | 0           | 691,312   |
| Total in place, end of month         | 5,198,688   | 5,198,688   | 5,198,688 |
| Recoverable in place, end of month   | 4,528,688   | 4,528,688   | 4,528,688 |

Table 4 - In Kind Helium Sales

February - 2009

|  | NASA*     | Navy*  | Army* | Air Force* | DOE*    | Other Fed* | Subtotal* | In Kind+  | Charges Billed (\$)** |            |
|--|-----------|--------|-------|------------|---------|------------|-----------|-----------|-----------------------|------------|
| <b>In Kind Helium</b>  |           |        |       |            |         |            |           |           |                       |            |
| <b>AirGas South West, Contract no. INC98-0101</b>                    |           |        |       |            |         |            |           |           | (billed quarterly)    |            |
| Month  |           |        |       |            |         |            |           |           |                       |            |
| FYTD   |           |        |       |            |         |            |           |           |                       |            |
| <b>AirGas North Central, Contract no. INC98-0102</b>                 |           |        |       |            |         |            |           |           |                       |            |
| Month  |           |        |       |            |         |            |           |           |                       |            |
| FYTD   |           |        |       |            |         |            |           |           |                       |            |
| <b>AirGas Intermountain, Contract no. INC98-0103</b>                 |           |        |       |            |         |            |           |           |                       |            |
| Month  |           |        |       |            |         |            |           |           |                       |            |
| FYTD   |           |        |       |            |         |            |           |           |                       |            |
| <b>Air Liquide Helium America, Inc., Contract no. INC98-0104</b>     |           |        |       |            |         |            |           |           |                       |            |
| Month  |           |        |       |            |         |            |           |           |                       |            |
| FYTD   |           |        |       |            |         |            |           |           |                       |            |
| <b>Air Products, L.P., Contract no. INC98-0105</b>                   |           |        |       |            |         |            |           |           |                       |            |
| Month  |           |        |       |            |         |            |           |           |                       |            |
| FYTD   |           |        |       |            |         |            |           |           |                       |            |
| <b>BOC/Linde Gas North America LLC, Contract no. INC98-0106</b>      |           |        |       |            |         |            |           |           |                       |            |
| Month  |           |        |       |            |         |            |           |           |                       |            |
| FYTD   |           |        |       |            |         |            |           |           |                       |            |
| <b>Corp Brothers, Inc., Contract no. INC98-0107</b>                  |           |        |       |            |         |            |           |           |                       |            |
| Month  |           |        |       |            |         |            |           |           |                       |            |
| FYTD   |           |        |       |            |         |            |           |           |                       |            |
| <b>FIBA Technologies, Inc., Contract no. INC98-0108</b>              |           |        |       |            |         |            |           |           |                       |            |
| Month  |           |        |       |            |         |            |           |           |                       |            |
| FYTD   |           |        |       |            |         |            |           |           |                       |            |
| <b>General Air Service &amp; Supply Co., Contract no. INC98-0109</b> |           |        |       |            |         |            |           |           |                       |            |
| Month  |           |        |       |            |         |            |           |           |                       |            |
| FYTD   |           |        |       |            |         |            |           |           |                       |            |
| <b>Jack B. Kelley Co., Contract no. INC98-0110</b>                   |           |        |       |            |         |            |           |           |                       |            |
| Month  |           |        |       |            |         |            |           |           |                       |            |
| FYTD   |           |        |       |            |         |            |           |           |                       |            |
| <b>Portland Welding Supply, Contract no. INC98-0111</b>              |           |        |       |            |         |            |           |           |                       |            |
| Month  |           |        |       |            |         |            |           |           |                       |            |
| FYTD   |           |        |       |            |         |            |           |           |                       |            |
| <b>Praxair, Inc., Contract no. INC98-0112</b>                        |           |        |       |            |         |            |           |           |                       |            |
| Month  |           |        |       |            |         |            |           |           |                       |            |
| FYTD   |           |        |       |            |         |            |           |           |                       |            |
| <b>United States Welding, Inc., Contract no. INC98-0113</b>          |           |        |       |            |         |            |           |           |                       |            |
| Month  |           |        |       |            |         |            |           |           |                       |            |
| FYTD   |           |        |       |            |         |            |           |           |                       |            |
| <b>Matheson Tri-Gas, Inc., Contract no. INC98-0114</b>               |           |        |       |            |         |            |           |           |                       |            |
| Month  |           |        |       |            |         |            |           |           |                       |            |
| FYTD   |           |        |       |            |         |            |           |           |                       |            |
| <b>GT &amp; S, Contract no. INC00-0115</b>                           |           |        |       |            |         |            |           |           |                       |            |
| Month  |           |        |       |            |         |            |           |           |                       |            |
| FYTD   |           |        |       |            |         |            |           |           |                       |            |
| <b>Total month</b>   | 0         | 0      | 0     | 0          | 0       | 0          | 0         | 0         | \$0                   |            |
| <b>Total FYTD</b>  | 26,076    | 1,530  | 0     | 4,014      | 4,727   | 8,079      | 44,427    | 43,740    | \$2,646,071           |            |
| <b>Total CYTD</b>  | 0         | 0      | 0     | 0          | 0       | 0          | 0         | 0         | \$0                   |            |
| <b>Cumulative</b>  | 1,366,422 | 62,826 | 222   | 261,176    | 311,525 | 329,898    | 2,332,069 | 2,295,899 | \$121,545,907         |            |
| <b>In Kind Transfers</b>   |           |        |       |            |         |            | Month     | FYTD      | CYTD                  | Cumulative |
| Transferred  |           |        |       |            |         |            | 42,882    | 89,180    | 42,882                | 2,295,116  |
| Volume outstanding   |           |        |       |            |         |            | 858       |           |                       |            |

\* Volumes in Mcf at 14.7 psia & 70°F  
 + Volumes in Mcf at 14.65 psia & 60°F

\*\*Rounded to nearest dollar

Table 5 - Open Market/Reserve Sell-down  
Helium & Natural Gas Sales

February - 2009

|  | Award Volume* | Outstanding* | Sales*    | Charges Billed (\$)***<br>(billed quarterly) |            |
|--|---------------|--------------|-----------|--|------------|
| <b>Conservation Helium</b>                     |               |              |           |  |            |
| <b><u>Air Liquide Helium America, Inc.</u></b> |               |              |           |  |            |
| Month  | 0             | 0            | 0         | \$0  |            |
| FYTD   | 0             | 0            | 0         | \$0  |            |
| Cumulative                                     | 77,000        |              | 77,000    | \$4,258,500                                  |            |
| <b><u>Air Products, L.P.</u></b>               |               |              |           |  |            |
| Month  | 0             | 0            | 0         | \$0  |            |
| FYTD   | 250,000       | 150,000      | 100,000   | \$6,225,000                                  |            |
| Cumulative                                     | 3,359,400     |              | 3,209,400 | \$182,406,750                                |            |
| <b><u>BOC/Linde Gas North America LLC</u></b>  |               |              |           |  |            |
| Month  | 0             | 0            | 0         | \$0  |            |
| FYTD   | 100,000       | 0            | 100,000   | \$6,225,000                                  |            |
| Cumulative                                     | 3,129,000     |              | 3,129,000 | \$174,477,500                                |            |
| <b><u>Keyes Helium Co., LLC</u></b>            |               |              |           |  |            |
| Month  | 0             | (12,000)     | 12,000    | \$747,000                                    |            |
| FYTD   | 75,000        | 12,000       | 63,000    | \$3,921,750                                  |            |
| Cumulative                                     | 548,200       |              | 536,200   | \$31,012,900                                 |            |
| <b><u>Matheson Tri-Gas, Inc.</u></b>           |               |              |           |  |            |
| Month  | 0             | 0            | 0         | \$0  |            |
| FYTD   | 0             | 0            | 0         | \$0  |            |
| Cumulative                                     | 10,000        |              | 10,000    | \$587,500                                    |            |
| <b><u>Praxair, Inc.</u></b>                    |               |              |           |  |            |
| Month  | 0             | 0            | 0         | \$0  |            |
| FYTD   | 100,000       | 0            | 100,000   | \$6,225,000                                  |            |
| Cumulative                                     | 2,140,000     |              | 2,140,000 | \$123,940,000                                |            |
| <b><u>Linde Gas North America, LLC</u></b>     |               |              |           |  |            |
| Month  | 0             | 0            | 0         | \$0  |            |
| FYTD   | 0             | 0            | 0         | \$0  |            |
| Cumulative                                     | 200,000       |              | 200,000   | \$11,035,000                                 |            |
| <b>Total month</b>                             | 0             | (12,000)     | 12,000    | <b>\$747,000</b>                             |            |
| <b>Total FYTD</b>                              | 525,000       | 162,000      | 363,000   | <b>\$22,596,750</b>                          |            |
| <b>Total CYTD</b>                              | 186,000       |              | 24,000    | <b>\$1,494,000</b>                           |            |
| <b>Cumulative</b>                              | 9,463,600     |              | 9,301,600 | <b>\$527,718,150</b>                         |            |
| <b>Open Market Transfers</b>                   |               |              |           |  |            |
| Transferred                                    |               | Month        | FYTD      | CYTD   | Cumulative |
| Volume outstanding                             |               | 12,000       | 589,000   | 325,000                                      | 9,289,600  |
|  |               | 12,000       |           |  |            |

\* Volumes in Mcf at 14.65 psia & 60°F

**Natural Gas/Liquid Sales**

|   | Natural Gas (Mcf)*** | NGLs (gal) | Decatherms | \$/unit     | Charges Billed (\$)***<br>(billed monthly) |
|---|----------------------|------------|------------|-------------|--|
| <b><u>EI Paso Natural Gas</u></b>                                     |                      |            |            |             |  |
| Provides Firm/Interruptible natural gas transportation services       |                      |            |            |             |  |
| Month   | 256,196              |            | 281,808    | (\$0.0993)  | (\$27,997)                                 |
| FYTD  | 1,348,471            |            | 1,515,460  | (\$0.0922)  | (\$139,777)                                |
| Cumulative  | 17,327,091           |            | 19,076,410 | (\$0.1037)  | (\$1,977,727)                              |
| <b><u>Minerals Management Service</u></b>                             |                      |            |            |             |  |
| Provides natural gas marketing services under a Cooperative Agreement |                      |            |            |             |  |
| Month   |                      |            |            |             | \$0  |
| FYTD  |                      |            |            | \$0.0000    | \$0  |
| Cumulative  |                      |            |            | (\$0.0086)  | (\$149,205)                                |
| <b><u>OGE Energy/Tenaska</u></b>                                      |                      |            |            |             |  |
| <Chk Minerals Management Service data>                                |                      |            |            |             |  |
| Month   | 281,808              | 0          | 277,500    | \$3.191441  | \$885,625                                  |
| FYTD  | 1,515,460            | 0          | 1,541,200  | \$3.758162  | \$5,792,079                                |
| Cumulative  | 17,818,966           | 0          | 18,959,971 | \$6.183459  | \$116,417,306                              |
| <b><u>SemCrude</u></b>  |                      |            |            |             |  |
| Month   | 0                    | 67,921     | 7,314      | \$6.668249  | \$48,772                                   |
| FYTD  | 0                    | 378,638    | 40,816     | \$7.417642  | \$302,758                                  |
| Cumulative  | 0                    | 4,469,925  | 476,628    | \$11.658649 | \$5,556,838                                |
| <b>Total month</b>  | 281,808              | 67,921     | 284,814    | \$3.182426  | <b>\$906,400</b>                           |
| <b>Total FYTD</b>   | 1,515,460            | 378,638    | 1,582,016  | \$3.764223  | <b>\$5,955,060</b>                         |
| <b>Total CYTD</b>   | 608,222              | 133,720    | 611,696    | \$3.495126  | <b>\$2,137,955</b>                         |
| <b>Cumulative</b>   | 17,818,966           | 4,469,925  | 19,436,599 | \$6.208293  | <b>\$119,847,213</b>                       |

\*\*\* Volumes in Mcf at 14.73 psia & 60°F

\*\*Rounded to nearest dollar

## Table 6 - Helium Resources Evaluation

February - 2009

All Volumes in Mcf at 14.7 psia & 70°F

| <b>Revenue Collected From Federal Leaseholds</b>  | Month*           | FYTD*              |
|---|------------------|--------------------|
| Fee Sales & Royalties                             | \$705,867        | \$3,179,221        |
| Natural Gas Royalties (1)                         | \$0              | \$6,015            |
| Natural Gas Rentals                               | \$0              | \$0                |
| Other   | \$6,393          | \$47,683           |
| <b>Revenue Collected from Federal Lease Holds</b> | <b>\$712,261</b> | <b>\$3,232,918</b> |

\*Totals do not sum

| <b>Helium Analysis and Evaluation</b>                   | Month | FYTD |
|---|-------|------|
| Number of Sample Request Letters Sent                   | 17    | 75   |
| Number of Samples Received                              | 5     | 27   |
| Number of Samples Analyzed                              | 6     | 25   |
| Total Number of Samples Analyzed For Resources Division | 6     | 25   |
| Total Number of Other Samples Analyzed (2)              | 56    | 289  |

### U. S. Helium Production

| <i>Domestic</i>                                  | FY Volume |   | CY Volume   |
|--|-----------|---|-------------|
| 2002 Helium Sold                                 | 4,620,900 |   | 4,584,904   |
| 2003 Helium Sold                                 | 4,621,000 |   | 4,393,555   |
| 2004 Helium Sold                                 | 4,675,800 |   | 4,692,699   |
| 2005 Helium Sold                                 | 4,936,900 |   | 4,800,782   |
| 2006 Helium Sold                                 | 4,943,900 |   | 4,944,544   |
| 2007 Helium Sold                                 | 4,941,200 |   | 4,965,176   |
| 2008 Helium Sold                                 | 4,767,400 | * | 4,730,277   |
| Estimated Helium Resources as of 12/31/2006(Mcf) |           |   | 732,000,000 |

|                                | FY-2008   | CY-2008   |
|--------------------------------|-----------|-----------|
| <b>U.S. Helium Exports</b> (3) | 2,396,984 | 2,520,465 |

(1) Includes drip gas sales & other miscellaneous gas sales.

(2) Includes pipeline, field survey, and other requested analyses.

(3) Data from Department of Commerce - Bureau of the Census.

# Table 7 - Helium Storage Contract Activity

February - 2009

All Volumes in Mcf at 14.65 psia & 60°F

|   | Metered Gas |          |           |           |            | Transferred Gas Helium |            | Stored Helium EOM | Charges Billed (\$)** |   |
|---|-------------|----------|-----------|-----------|------------|------------------------|------------|-------------------|-----------------------|---|
|   | Gross Gas   | Helium % | Helium    | Helium    |            |                        | Month      |                   | Cumulative            | Month   |
|   | Month       |          | FYTD      | CYTD      | Cumulative | Month                  | Cumulative |                   |                       |   |
| <b>Total All Contracts*</b>                                       |             |          |           |           |            |                        |            |                   |                       |   |
| Crude Acquired  | 65,216      | 67.5%    | 44,031    | 305,129   | 97,778     | 28,722,052             | 95,899     | 39,302,160        |                       |   |
| Crude Disposed  | 240,956     | 73.9%    | 177,979   | 970,204   | 334,848    | 37,060,627             | 41,017     | 28,359,857        |                       |   |
| Grade-A Rdlvrd  | 0           |          | 0         | 0         | 0          | 1,478,718              |            |                   |                       |   |
| Net/Balance   | (175,740)   |          | (133,948) | (665,075) | (237,070)  | (9,817,293)            | 54,882     | 10,942,303        | 1,125,010             | \$407,644 Storage Fees<br>\$176,963 RMF Fees<br>\$584,608 \$2,540,571 |
| <b>Total Prior Contracts (TERMINATED)</b>                         |             |          |           |           |            |                        |            |                   |                       |   |
| Crude Acquired  |             |          | 0         | 0         | 17,406,129 |                        | 0          | 18,196,898        |                       |   |
| Crude Disposed  |             |          | 0         | 0         | 11,830,863 |                        | 0          | 19,148,768        |                       |   |
| Grade-A Rdlvrd  |             |          | 0         | 0         | 1,478,718  |                        |            |                   |                       |   |
| Number of trailers  |             |          | 0         | 0         | 9,834      |                        |            | 0                 |                       |   |
| <b>BOC/Linde Gas North America LLC, Contract no. 1995-3249</b>    |             |          |           |           |            |                        |            |                   |                       |   |
| Crude Acquired  |             |          |           |           |            |                        |            |                   |                       |   |
| Crude Disposed  |             |          |           |           |            |                        |            |                   |                       |   |
| Net/Balance   |             |          |           |           |            |                        |            |                   |                       |   |
| <b>Praxair, Inc., Contract no. 1995-3251</b>                      |             |          |           |           |            |                        |            |                   |                       |   |
| Crude Acquired  |             |          |           |           |            |                        |            |                   |                       |   |
| Crude Disposed  |             |          |           |           |            |                        |            |                   |                       |   |
| Net/Balance   |             |          |           |           |            |                        |            |                   |                       |   |
| <b>Air Products, L.P., Contract no. 1995-3256</b>                 |             |          |           |           |            |                        |            |                   |                       |   |
| Crude Acquired  |             |          |           |           |            |                        |            |                   |                       |   |
| Crude Disposed  |             |          |           |           |            |                        |            |                   |                       |   |
| Net/Balance   |             |          |           |           |            |                        |            |                   |                       |   |
| <b>ExxonMobil Gas Marketing Co., Contract no. 1995-3280</b>       |             |          |           |           |            |                        |            |                   |                       |   |
| Crude Acquired  |             |          |           |           |            |                        |            |                   |                       |   |
| Crude Disposed  |             |          |           |           |            |                        |            |                   |                       |   |
| Net/Balance   |             |          |           |           |            |                        |            |                   |                       |   |
| <b>Pioneer Natural Resources USA, Inc, Contract no. 1995-3286</b> |             |          |           |           |            |                        |            |                   |                       |   |
| Crude Acquired  |             |          |           |           |            |                        |            |                   |                       |   |
| Crude Disposed  |             |          |           |           |            |                        |            |                   |                       |   |
| Net/Balance   |             |          |           |           |            |                        |            |                   |                       |   |
| <b>Keyes Helium Co., LLC, Contract no. 1995-3287</b>              |             |          |           |           |            |                        |            |                   |                       |   |
| Crude Acquired  |             |          |           |           |            |                        |            |                   |                       |   |
| Crude Disposed  |             |          |           |           |            |                        |            |                   |                       |   |
| Net/Balance   |             |          |           |           |            |                        |            |                   |                       |   |
| <b>Air Liquide Helium America, Inc., Contract no. 2003-3284</b>   |             |          |           |           |            |                        |            |                   |                       |   |
| Crude Acquired  |             |          |           |           |            |                        |            |                   |                       |   |
| Crude Disposed  |             |          |           |           |            |                        |            |                   |                       |   |
| Net/Balance   |             |          |           |           |            |                        |            |                   |                       |   |
| <b>Matheson Tri-Gas, Inc., Contract no. 2007-3288</b>             |             |          |           |           |            |                        |            |                   |                       |   |
| Crude Acquired  |             |          |           |           |            |                        |            |                   |                       |   |
| Crude Disposed  |             |          |           |           |            |                        |            |                   |                       |   |
| Net/Balance   |             |          |           |           |            |                        |            |                   |                       |   |

| <b>Government Helium</b>                                |            |
|---|------------|
| Remaining Crude Acquired beginning of the month         | 18,585,594 |
| Crude Disposed: In Kind Sales transferred for the month | (42,882)   |
| Open Market/Reserve Sell Down transferred for the month | (12,000)   |
| Gains and Loses for the month                           | (5,632)    |
| Net/Balance of Purchased Helium Remaining for Sale      | 18,525,080 |

\*Includes In Kind and Open Market transfers from Government storage

\*\*Rounded to nearest dollar

## Table 8 - Compression & CHEU (Charges & Operations)

February - 2009

| Field/CHEU Compressor Operations |              | Month    | FYTD      | Cumulative  |
|----------------------------------|--------------|----------|-----------|-------------|
| Spot gas fuel price *            | \$ per/MMBTU | \$3.19   | \$3.76    | \$6.11      |
| Fuel used *                      | total MMBTU  | 9,598    | 56,238    | 842,213     |
| Field compressor fuel revenue *  | \$dollars    | \$2,912  | \$4,675   | \$623,132   |
| HEU compressor fuel credit *     | \$dollars    | \$18,235 | \$138,477 | \$2,676,048 |
| HEU fuel credit *                | \$dollars    | \$9,471  | \$68,364  | \$1,846,285 |
| #1 Compressor run time *         | hours        | 615      | 3,549     | 50,547      |
| #2 Compressor run time *         | hours        | 190      | 1,960     | 31,824      |
| #3 Compressor run time *         | hours        | 398      | 1,402     | 22,624      |

\* Field/CHEU Compressor Operations based on Feb 09 activity

| Field Compressor Charges   | Charges Billed (\$)* |             |               |
|--|----------------------|-------------|---------------|
| BOC/Linde Gas North America LLC, Contract no. 1995-3249                        |                      |             |               |
| Praxair, Inc., Contract no. 1995-3251  |                      |             |               |
| Air Products, L.P., Contract no. 1995-3256                                     |                      |             |               |
| Keyes Helium Co., LLC, Contract no. 1995-3287                                  |                      |             |               |
| SubTotal - Cliffside Refiners, LP (provides booster compression services)      | (\$58,970)           | (\$298,826) | (\$6,599,553) |
| Cliffside Refiners, LP, GDA010003 (BLM provided fuel *, labor, supplies, etc.) | \$14,584             | \$76,896    | \$1,641,795   |
| Net Total - Cliffside Refiners, LP   | (\$44,386)           | (\$221,931) | (\$4,957,758) |

\* BLM provided fuel cost is based on Dec 08 fuel consumed

\*Rounded to nearest dollar

| Crude Helium Enrichment Unit (CHEU)<br>CHEU Runtime | Month       |         | FYTD        |         | Cumulative  |
|---|-------------|---------|-------------|---------|-------------|
|   | Runtime Hrs | Percent | Runtime Hrs | Percent | Runtime Hrs |
| Processing feed gas                                 | 670         | 99.7%   | 3,562       | 98.3%   | 48,230      |
| Producing residue gas                               | 667         | 99.3%   | 3,526       | 97.3%   | 48,015      |
| Producing helium product                            | 667         | 99.2%   | 3,521       | 97.2%   | 45,153      |
| Producing natural gas liquids                       | 665         | 99.0%   | 3,528       | 97.4%   | 43,675      |

| CHEU Charges                              | Charges Billed (\$)* |               |                |
|---|----------------------|---------------|----------------|
|   | Month                | FYTD          | Cumulative     |
| Reservoir Management Fees (RMF)           | \$176,963            | \$895,114     | \$12,322,574   |
| Total operating costs                     | (\$942,845)          | (\$4,798,847) | (\$61,107,356) |
| Labor                                     | \$115,406            | \$577,030     | \$4,498,866    |
| Compressor fuel cost Dec 08               | \$34,768             | \$178,868     | \$2,679,562    |
| HEU fuel cost Dec 08                      | \$16,727             | \$82,847      | \$1,867,350    |
| Electrical power cost Dec 08              | \$164,110            | \$900,935     | \$8,990,470    |
| Other                                     | \$136,308            | \$681,538     | \$6,282,396    |
| Sub Total - Items provided by BLM         | \$467,319            | \$2,421,218   | \$27,527,999   |
| Total - Cliffside Refiners, LP, GDA030001 | (\$475,526)          | (\$2,377,629) | (\$33,579,357) |

\*Rounded to nearest dollar

| CHEU Utility Usage                        | Month     | FYTD       | Cumulative  |
|---|-----------|------------|-------------|
| Cheu Fuel Gas (Mcf) usage Feb 09          | 2,551     | 15,631     | 267,995     |
| Cheu Pure Water Usage (gallons) Feb 09    | 2,480     | 8,091      | 207,863     |
| Electricity Metered (Kwh) consumed Dec 08 | 2,571,622 | 12,960,261 | 149,538,402 |