

Bureau of Land Management

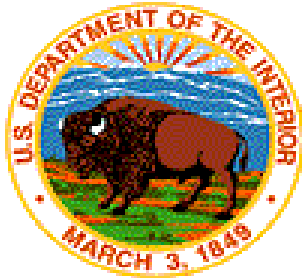
Amarillo Field Office

Helium Operations

Statistical Report

for

June - 2016



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

List of Tables

Table 1 - Summary of Helium Operations
Table 2 - Bush Dome Reservoir Operations
Table 3 - Gas Volumes & Inventory
Table 4 - In Kind Helium Sales
Table 5 - Conservation Crude Sales/Reserve Sell-down
Table 5 - Natural Gas/Liquid Sales
Table 6 - Helium Resources Evaluation
Table 7 - Helium Storage Contract Activity
Table 8 - Compression & CHEU (Charges & Operation)

Amarillo, Texas

Compiled by: Joan Grochowina

Issued: September 13, 2016

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

Approved for Distribution: Samuel R. M. Burton

Date: August 26, 2016

Table 1 - Summary of Helium Operations

June - 2016

Helium Enrichment Unit Operations

| Gas Processed | Month Gross Volume | Month Net Helium | Average Percent | Gross FYTD | Net FYTD |
|----------------------------|--------------------|------------------|-----------------|------------|----------|
| Measured Plant Feed (Mcf*) | 453,404 | 78,711 | 17.36% | 2,909,057 | 514,944 |
| Helium Product (Mcf*) | 98,957 | 74,410 | 75.19% | 651,731 | 485,273 |
| Residue Natural Gas (Mcf*) | 208,676 | 69 | 0.03% | 1,313,064 | 201 |

* Volumes in Mcf at 14.65 psia & 60°F

Natural Gas & Liquids Produced

| Gas Processed | Month | FYTD |
|----------------------------|---------|-----------|
| Natural Gas Sales (Mcf***) | 206,278 | 1,302,983 |
| NGL Sales (gallons) | 81,236 | 382,410 |

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

Bush Dome Reservoir Operations

| Conservation gases from all sources | Month Gross Volume | Month Net Helium | Average Percent | Gross FYTD | Net FYTD |
|-------------------------------------|--------------------|------------------|-----------------|------------|----------|
| Total Withdrawn (Mcf*) | 447,092 | 77,666 | 17.37% | 2,971,353 | 529,139 |
| Crude Injection (Mcf*) | 0 | 0 | 00.00% | 71,898 | 53,251 |
| Crude Production (Mcf*) | 0 | 0 | 00.00% | 37,008 | 27,164 |

* Volumes in Mcf at 14.65 psia & 60°F

Storage Operations

| Conservation Helium | Volume Outstanding | Month | FYTD | CYTD | Cumulative |
|---|--------------------|-----------|---------|------|------------|
| Conservation Crude Sale Volume Sold/Paid (Mcf*) | | 0 | 886,000 | 0 | 20,952,729 |
| Conservation Crude Sale Volume Transferred (Mcf*) | 15,000 | 0 | 886,000 | 0 | 20,937,729 |
| Conservation Helium in Storage (EOM) (Mcf*) | | 5,571,832 | | | |

* Volumes in Mcf at 14.65 psia & 60°F

In Kind Helium

| | Month | FYTD | CYTD | Cumulative |
|---------------------------------|--------|--------|--------|------------|
| Sale Volumes Transferred (Mcf*) | 0 | 83,690 | 58,925 | 3,347,232 |
| Sale Volumes Outstanding (Mcf*) | 40,513 | | | |

* Volumes in Mcf at 14.65 psia & 60°F

Private Company Helium Storage Contracts

| Contact Activity | Month Gross Volume | Month Net Helium | Average Percent | Annual Helium FYTD |
|--|--------------------|------------------|-----------------|--------------------|
| Crude Acquired (Mcf*) | 56,121 | 39,035 | 69.56% | 358,335 |
| Crude Disposed (Mcf*) | 157,572 | 116,627 | 74.02% | 786,330 |
| Net Balance (Mcf*) | (101,451) | (77,592) | | (427,995) |
| Balance of Stored Helium End Of Month (Mcf*) | | 2,791,008 | | |

* Volumes in Mcf at 14.65 psia & 60°F

Revenue / Charges

| Helium Storage Contracts (Charges Billed (\$)) | Month | FYTD |
|--|-----------|-------------|
| Storage Fees Billed (\$) | \$422,938 | \$3,681,920 |
| Reservoir Management Fees Billed (\$) | \$254,561 | \$2,036,485 |

Field Compressor Charges (Charges Billed (\$))

| | Month | FYTD |
|--|-------|-------------|
| Funded by the Refiners (provides for booster compression services) | \$0 | (\$217,296) |
| Cliffside Refiners, LP, by Agreement #GDA010003 (reimburses BLM for fuel, labor, supplies, etc.) | \$0 | \$88,817 |
| Net-Total (Funded by the Refiners for compression costs.) | \$0 | (\$128,479) |

Enrichment Unit Charges (Charges Billed (\$))

| | Month | FYTD |
|---|-------------|---------------|
| Reservoir Management Fees (RMF) | \$254,561 | \$2,036,485 |
| Total operating costs | (\$831,056) | (\$7,367,803) |
| Sub Total - Items provided by BLM | \$331,975 | \$2,876,077 |
| Total - Cliffside Refiners, LP, GDA030001 | (\$499,081) | (\$4,491,726) |

Conservation Helium - Natural Gas - Liquid Sales (Charges Billed (\$))

| | Month | FYTD |
|---------------------------------|-------------|-------------|
| Conservation Crude Helium Sales | \$0 | \$0 |
| In Kind Sales | \$3,227,962 | \$7,893,382 |
| Natural Gas & Liquid Sales | \$531,704 | \$2,595,665 |

Helium Resources Evaluation

| | Month | FYTD |
|--|---------------|---------------|
| Revenue Collected from Federal Lease Holds | \$1,479,245 | \$13,843,036 |
| Helium Sample Collection Report for month | Submitted - 0 | Received - 0 |
| | | Analyzed - 19 |

*Rounded to nearest dollar

Table 2 - Bush Dome Reservoir Operations

June - 2016

| | | Gross Withdrawal | | Net Helium Withdrawal | | Nitrogen | | Methane | Methane | Ethane plus | | Other (CO2, Ar, H2) | |
|------------------|--------|------------------|--------------------|-----------------------|-------------------|----------------|-------------------|----------------|--------------------|---------------|-------------------|---------------------|------------------|
| | | Month | Cumulative | Month | Cumulative | Month | Cumulative | Month | Cumulative | Month | Cumulative | Month | Cumulative |
| TOTAL | | 447,092 | 224,609,883 | 77,666 | 42,038,435 | 111,794 | 55,344,284 | 229,607 | 113,836,789 | 24,000 | 11,507,117 | 4,024 | 1,883,258 |
| BIVINS A-3 | Jun-16 | 0 | 10,961,112 | 0 | 3,548,629 | 0 | 2,772,147 | 0 | 4,159,383 | 0 | 407,301 | 0 | 73,653 |
| BIVINS A-6 | Jun-16 | 40,494 | 11,467,546 | 19,889 | 6,818,191 | 10,205 | 2,817,890 | 9,118 | 1,617,509 | 983 | 160,201 | 299 | 53,755 |
| BIVINS A-13 | Jun-16 | 27,446 | 8,511,713 | 9,292 | 4,469,440 | 6,913 | 2,188,535 | 9,877 | 1,624,100 | 1,156 | 180,419 | 208 | 49,218 |
| BIVINS A-14 | Jun-16 | 33,233 | 9,574,739 | 10,321 | 5,505,348 | 8,302 | 2,427,505 | 12,867 | 1,430,422 | 1,446 | 154,965 | 296 | 56,500 |
| BIVINS A-4 | Jun-16 | 33,952 | 13,489,467 | 3,900 | 2,390,902 | 8,189 | 3,268,507 | 19,473 | 7,005,954 | 2,033 | 704,052 | 357 | 120,052 |
| BUSH A-2 | Jun-16 | 38,996 | 13,163,844 | 3,642 | 1,952,642 | 9,784 | 3,227,914 | 22,790 | 7,141,095 | 2,515 | 732,227 | 265 | 109,966 |
| Injection | Jun-16 | 0 | 66,464,971 | 0 | 48,012,584 | 0 | 17,119,298 | 0 | 780,461 | 0 | 36 | 0 | 552,592 |
| inj Bivins A-3 | Jun-16 | 0 | (25,652,315) | 0 | (18,384,452) | 0 | (6,554,549) | 0 | (332,777) | 0 | 0 | 0 | (380,537) |
| inj Bivins A-6 | Jun-16 | 0 | (24,402,922) | 0 | (17,662,775) | 0 | (6,484,304) | 0 | (142,978) | 0 | (71) | 0 | (112,794) |
| inj Bivins A-13 | Jun-16 | 0 | (6,490,417) | 0 | (4,706,191) | 0 | (1,656,853) | 0 | (122,391) | 0 | (2) | 0 | (4,980) |
| inj Bivins A-14 | Jun-16 | 0 | (6,501,333) | 0 | (4,767,421) | 0 | (1,602,106) | 0 | (126,303) | 0 | (7) | 0 | (5,497) |
| inj Bivins A-4 | Jun-16 | 0 | (2,527,801) | 0 | (1,848,815) | 0 | (601,353) | 0 | (42,016) | 0 | 0 | 0 | (35,617) |
| inj Bush A-2 | Jun-16 | 0 | (867,658) | 0 | (625,258) | 0 | (215,406) | 0 | (13,980) | 0 | 0 | 0 | (13,015) |
| Production | Jun-16 | 0 | 1,254,876 | 0 | 924,742 | 0 | 270,231 | 0 | 48,129 | 0 | 3,199 | 0 | 8,575 |
| BIVINS A-1 | Jun-16 | 0 | 2,686,608 | 0 | 48,896 | 0 | 636,995 | 0 | 1,798,415 | 0 | 175,704 | 0 | 26,597 |
| BIVINS A-2 | Jun-16 | 14,476 | 13,992,325 | 476 | 1,880,341 | 3,374 | 3,427,039 | 9,488 | 7,791,274 | 994 | 776,910 | 145 | 116,762 |
| BIVINS A-5 | Jun-16 | 21,077 | 16,036,534 | 3,976 | 2,043,935 | 5,380 | 3,931,587 | 10,423 | 9,014,642 | 1,135 | 907,559 | 163 | 138,811 |
| BIVINS A-7 | Jun-16 | 10,147 | 11,806,225 | 3,105 | 2,784,574 | 2,646 | 2,972,980 | 3,899 | 5,410,526 | 432 | 551,918 | 66 | 86,227 |
| BIVINS A-9 | Jun-16 | 19,565 | 10,419,153 | 440 | 198,632 | 5,023 | 2,563,628 | 12,588 | 6,867,604 | 1,352 | 694,241 | 162 | 95,050 |
| BIVINS A-11 | Jun-16 | 21,948 | 6,433,854 | 640 | 138,748 | 5,587 | 1,600,603 | 14,003 | 4,202,210 | 1,507 | 431,697 | 211 | 60,595 |
| BIVINS A-15 | Jun-16 | 30,619 | 9,832,384 | 533 | 430,824 | 7,173 | 2,342,323 | 20,428 | 6,324,110 | 2,111 | 633,340 | 373 | 101,787 |
| BIVINS B-1 | Jun-16 | 32,043 | 8,042,989 | 732 | 300,198 | 8,069 | 1,949,111 | 21,489 | 5,179,714 | 1,549 | 531,382 | 204 | 82,584 |
| BIVINS B-2 | Jun-16 | 24,683 | 6,680,227 | 469 | 125,881 | 6,272 | 1,674,022 | 15,822 | 4,339,626 | 1,681 | 446,740 | 440 | 93,958 |
| BUSH A-1 | Jun-16 | 0 | 5,721,962 | 0 | 104,140 | 0 | 1,356,677 | 0 | 3,830,281 | 0 | 374,216 | 0 | 56,647 |
| BUSH A-3 | Jun-16 | 25,326 | 12,125,857 | 8,699 | 2,865,459 | 6,443 | 2,998,533 | 8,987 | 5,589,790 | 989 | 566,129 | 209 | 105,946 |
| BUSH A-4 | Jun-16 | 13,072 | 8,640,354 | 1,164 | 1,579,720 | 3,346 | 2,161,154 | 7,662 | 4,389,323 | 826 | 448,028 | 74 | 62,130 |
| BUSH A-5 | Jun-16 | 37,069 | 16,616,556 | 9,952 | 3,822,784 | 9,488 | 4,171,114 | 15,695 | 7,721,330 | 1,717 | 785,959 | 217 | 115,370 |
| BUSH A-8 | Jun-16 | 13,087 | 4,252,102 | 243 | 77,930 | 3,248 | 1,029,953 | 8,490 | 2,807,851 | 892 | 283,174 | 215 | 53,194 |
| BUSH A-9 | Jun-16 | 0 | 3,860,915 | 0 | 105,037 | 0 | 930,915 | 0 | 2,537,187 | 0 | 253,463 | 0 | 34,312 |
| BUSH A-11 | Jun-16 | 5,955 | 4,550,999 | 122 | 132,744 | 1,431 | 1,088,524 | 3,917 | 2,975,347 | 402 | 302,144 | 83 | 52,240 |
| BUSH B-1 | Jun-16 | 3,901 | 3,329,764 | 70 | 62,506 | 921 | 790,092 | 2,592 | 2,225,088 | 280 | 219,484 | 38 | 32,594 |
| FUQUA A-1 | Jun-16 | 0 | 2,954,098 | 0 | 53,854 | 0 | 702,798 | 0 | 1,975,175 | 0 | 193,573 | 0 | 28,699 |
| FUQUA A-2 | Jun-16 | 0 | 132,119 | 0 | 2,404 | 0 | 31,322 | 0 | 88,458 | 0 | 8,637 | 0 | 1,297 |
| FUQUA A-3 | Jun-16 | 2 | 9,303,912 | 0 | 577,005 | 0 | 2,277,687 | 0 | 5,790,357 | 0 | 583,701 | 0 | 75,162 |
| TT Fuel | Jun-16 | 682 | 0 | 12 | 0 | 160 | 0 | 454 | 0 | 49 | 0 | 6 | 0 |
| field-wide pct's | | | | 17.37% | 18.72% | 25.00% | 24.64% | 51.36% | 50.68% | 5.37% | 5.12% | 0.90% | 0.84% |

Latest estimates of reserves and feed to HEU

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

As of EOM Jun-16 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 - 15 | 90.147 | 23.308 |
| Injection 2003 - 15 | (1.394) | (1.137) |
| Produced to Date 2016 | 2.082 | 0.383 |
| Injected to Date 2016 | (0.019) | (0.014) |
| Amount of Raw Gas Available to CHEU | 89.748 | =====> 10.715 total helium in reservoir |
| Estimated Bottom Hole Pressure | 330.522 | est z-factor 0.980 |

* All volumes on Table 2 are reported in Mcf at 14.65 psia & 60°F

Table 3 - Gas Volumes & Inventory

June - 2016

Crude Helium Enrichment Unit Operations

| | | Gross Withdrawal | | Net Helium Withdrawal | | Nitrogen | | Methane | | Ethane plus | | Other (CO ₂ , Ar, H ₂) | |
|------------------|--------|------------------|------------|-----------------------|------------|----------|------------|---------|------------|-------------|------------|---|------------|
| | | Month | Cumulative | Month | Cumulative | Month | Cumulative | Month | Cumulative | Month | Cumulative | Month | Cumulative |
| Measured Feed | Jun-16 | 453,404 | 89,647,452 | 78,711 | 22,036,677 | 113,288 | 22,480,604 | 232,881 | 40,081,684 | 24,512 | 4,276,309 | 4,013 | 772,178 |
| Calculated Feed | Jun-16 | 446,408 | 89,387,989 | 77,653 | 22,010,641 | 111,634 | 22,411,120 | 229,153 | 39,909,129 | 23,950 | 4,285,553 | 4,017 | 771,544 |
| Feed to Box | Jun-16 | 443,089 | 88,829,794 | 77,653 | 22,010,820 | 111,634 | 22,411,203 | 229,153 | 39,909,175 | 23,950 | 4,285,554 | 698 | 213,042 |
| Cheu Product | Jun-16 | 98,957 | 27,740,518 | 74,410 | 21,673,911 | 21,900 | 5,328,822 | 1,981 | 544,587 | 4 | 588 | 662 | 192,611 |
| Residue | Jun-16 | 208,676 | 39,888,195 | 69 | 1,983 | 5,870 | 986,068 | 184,320 | 35,390,889 | 18,416 | 3,508,002 | 0 | 1,254 |
| Cold Box Vent | Jun-16 | 68,138 | 15,098,531 | 106 | 88,975 | 60,542 | 13,363,674 | 7,477 | 1,584,689 | (0) | 118 | 13 | 61,076 |
| Flare/Boot Strap | Jun-16 | 68,138 | 5,614,780 | 106 | 49,754 | 60,542 | 4,618,676 | 7,477 | 846,858 | (0) | 93,583 | 13 | 5,909 |
| Fuel From Cheu | Jun-16 | 5,700 | 1,223,153 | 3 | 366 | 148 | 36,011 | 4,597 | 992,102 | 952 | 194,674 | 0 | 0 |
| Shrinkage/Loss | Jun-16 | 2,460 | 438,554 | 0 | 0 | 0 | 0 | 0 | 0 | 2,460 | 438,554 | 0 | 0 |
| Unaccounted* | Jun-16 | 24,902 | 2,895,702 | 1,430 | 154,921 | 13,912 | 2,155,825 | 9,546 | 580,100 | 0 | 1,371 | 14 | 3,486 |

*Before October 2004, the values are estimated

Storage Operations

Inventory (contained helium)

| | Government | Private |
|---------------------------|------------|-----------|
| Beginning inventory | 5,572,386 | 2,868,600 |
| net acceptances + | 0 | 0 |
| redeliveries | 0 | (77,592) |
| In Kind Transfers | 0 | 0 |
| Conservation Crude Sales | 0 | 0 |
| Gain/loss | (555) | |
| Ending Inventory | 5,571,832 | 2,791,008 |
| Total Helium in Reservoir | 10,714,713 | |
| Total Helium in Storage | 8,362,840 | |
| Helium in native gas | 2,351,873 | |

Crude Helium Pipeline

| | Gross | Net Helium | Percent |
|--|---------|------------|---------|
| Beginning inventory | 34,667 | 25,331 | 73.07% |
| Measured to Pipeline (Private Plants) | 56,121 | 39,105 | 69.68% |
| Measured from Pipeline (Private Plant) | 157,572 | 116,627 | 74.02% |
| HEU Production | 98,957 | 74,410 | 75.19% |
| Injection | 0 | 0 | 00.00% |
| Production | 0 | 0 | |
| Ending Inventory | 29,432 | 21,665 | 73.61% |
| Gain/Loss | (2,740) | (555) | |

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 |

* All volumes on Table 3 are reported in Mcf at 14.65 psia & 60°F

Table 4 - In Kind Helium Sales

June - 2016

| | NASA* | Navy* | Army* | Air Force* | DOE* | Other Fed* | Subtotal* | In Kind+ | Charges Billed (\$)** | |
|--|-----------|---------|-------|------------|---------|------------|-----------|-----------|-----------------------|------------|
| In Kind Helium | | | | | | | | | | |
| AirGas South West, Contract no. INC98-0101 | | | | | | | | | (billed quarterly) | |
| Month | | | | | | | | | | |
| FYTD | | | | | | | | | | |
| AirGas North Central, Contract no. INC98-0102 | | | | | | | | | | |
| Month | | | | | | | | | | |
| FYTD | | | | | | | | | | |
| AirGas Intermountain, Contract no. INC98-0103 | | | | | | | | | | |
| Month | | | | | | | | | | |
| FYTD | | | | | | | | | | |
| Air Liquide Helium America, Inc., Contract no. INC98-0104 | | | | | | | | | | |
| Month | | | | | | | | | | |
| FYTD | | | | | | | | | | |
| Air Products, L.P., Contract no. INC98-0105 | | | | | | | | | | |
| Month | | | | | | | | | | |
| FYTD | | | | | | | | | | |
| Linde Gas North America, LLC, Contract no. INC98-0106 | | | | | | | | | | |
| Month | | | | | | | | | | |
| FYTD | | | | | | | | | | |
| Corp Brothers, Inc., Contract no. INC98-0107 | | | | | | | | | | |
| Month | | | | | | | | | | |
| FYTD | | | | | | | | | | |
| FIBA Technologies, Inc., Contract no. INC98-0108 | | | | | | | | | | |
| Month | | | | | | | | | | |
| FYTD | | | | | | | | | | |
| General Air Service & Supply Co., Contract no. INC98-0109 | | | | | | | | | | |
| Month | | | | | | | | | | |
| FYTD | | | | | | | | | | |
| Praxair, Inc., Contract no. INC98-0112 | | | | | | | | | | |
| Month | | | | | | | | | | |
| FYTD | | | | | | | | | | |
| United States Welding, Inc., Contract no. INC98-0113 | | | | | | | | | | |
| Month | | | | | | | | | | |
| FYTD | | | | | | | | | | |
| Matheson Tri-Gas, Inc., Contract no. INC98-0114 | | | | | | | | | | |
| Month | | | | | | | | | | |
| FYTD | | | | | | | | | | |
| GT & S, Contract no. INC00-0115 | | | | | | | | | | |
| Month | | | | | | | | | | |
| FYTD | | | | | | | | | | |
| Global Gases America, Contract no. INC13-0116 | | | | | | | | | | |
| Month | | | | | | | | | | |
| FYTD | | | | | | | | | | |
| Total month | 19,737 | 1 | 0 | 0 | 0 | 19,107 | 38,845 | 38,246 | \$3,227,962 | |
| Total FYTD | 45,271 | 1 | 0 | 0 | 0 | 52,763 | 98,034 | 96,523 | \$7,893,382 | |
| Total CYTD | 33,199 | 1 | 0 | 0 | 0 | 34,224 | 67,424 | 66,385 | \$5,602,894 | |
| Cumulative | 1,860,357 | 108,675 | 450 | 271,584 | 421,753 | 778,139 | 3,440,957 | 3,387,670 | \$195,531,366 | |
| In Kind Transfers | | | | | | | Month | FYTD | CYTD | Cumulative |
| Transferred | | | | | | | 0 | 83,690 | 58,925 | 3,347,232 |
| Volume outstanding | | | | | | | 40,513 | | | |

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

**Rounded to nearest dollar

Table 5 - Conservation Crude Sales/Reserve Sell-down

June - 2016

Helium & Natural Gas Sales

| | Award Volume* | Outstanding* | Sales* | Charges Billed (\$)** | |
|--|---------------|--------------|------------|-----------------------|-----------------|
| Conservation Helium | | | | | |
| (billed quarterly) | | | | | |
| Air Liquide Helium America, Inc. | | | | | |
| Month | 0 | 0 | 0 | \$0 | |
| FYTD | 20,000 | 0 | 50,000 | \$5,230,000 | |
| Cumulative | 335,217 | | 335,217 | \$25,454,815 | |
| Air Products, L.P. | | | | | |
| Month | 0 | 0 | 0 | \$0 | |
| FYTD | 193,875 | 0 | 318,875 | \$33,038,000 | |
| Cumulative | 8,029,436 | | 8,029,436 | \$565,835,027 | |
| Linde Gas North America, LLC | | | | | |
| Month | 0 | 0 | 0 | \$0 | |
| FYTD | 140,021 | 0 | 140,021 | \$14,562,184 | |
| Cumulative | 6,030,653 | | 6,030,653 | \$404,691,853 | |
| Keyes Helium Co., LLC | | | | | |
| Month | 0 | 0 | 0 | \$0 | |
| FYTD | 21,000 | 0 | 21,000 | \$2,184,000 | |
| Cumulative | 977,113 | | 977,113 | \$66,015,798 | |
| Matheson Tri-Gas, Inc. | | | | | |
| Month | 0 | 0 | 0 | \$0 | |
| FYTD | 68,000 | 0 | 68,000 | \$7,072,000 | |
| Cumulative | 107,000 | | 107,000 | \$10,569,500 | |
| Praxair, Inc. | | | | | |
| Month | 0 | 0 | 0 | \$0 | |
| FYTD | 183,104 | 0 | 273,104 | \$28,407,816 | |
| Cumulative | 5,219,676 | | 5,219,676 | \$384,489,780 | |
| Linde Gas, LLC discontinued 10 2008 | | | | | |
| Month | 0 | 0 | 0 | \$0 | |
| FYTD | 0 | 0 | 0 | \$0 | |
| Cumulative | 200,000 | | 200,000 | \$11,035,000 | |
| Global Gases America | | | | | |
| Month | 0 | 0 | 0 | \$0 | |
| FYTD | 0 | 0 | 0 | \$0 | |
| Cumulative | 22,967 | | 22,967 | \$2,112,565 | |
| Airgas Merchant Gases | | | | | |
| Month | 0 | 0 | 0 | \$0 | |
| FYTD | 0 | 0 | 0 | \$0 | |
| Cumulative | 15,667 | | 15,667 | \$1,488,365 | |
| IACX Energy | | | | | |
| Month | 0 | 0 | 0 | \$0 | |
| FYTD | 0 | 0 | 15,000 | \$1,575,000 | |
| Cumulative | 15,000 | | 15,000 | \$1,575,000 | |
| Total month | 0 | 0 | 0 | | 0 |
| Total FYTD | 626,000 | 0 | 886,000 | | \$0 |
| Total CYTD | 0 | | 0 | | \$0 |
| Cumulative | 20,952,729 | | 20,952,729 | | \$1,473,267,703 |
| Conservation Crude Transfers | | | | | |
| | | Month | FYTD | CYTD | Cumulative |
| Transferred | | 0 | 886,000 | 0 | 20,937,729 |
| Volume outstanding | | 15,000 | | | |

* Volumes in Mcf at 14.65 psia & 60°F

Natural Gas/Liquid Sales

| | Natural Gas (Mcf)*** | NGLs (gal) | Decatherms | Avg Btu Value | Charges Billed (\$)** | |
|------------------------------------|----------------------|--|-------------------|--------------------------|-----------------------|--|
| El Paso Natural Gas | | | | | | |
| | | Provides Measured Firm/Interruptible Transportation Services | | | (billed monthly) | |
| Month | 206,278 | --- | 226,691 | 1,099 | (\$27,997) | |
| FYTD | 1,302,983 | --- | 1,436,259 | 1,102 | (\$251,973) | |
| Cumulative | 39,260,967 | --- | 43,079,118 | 1,097 | (\$4,500,388) | |
| Minerals Management Service | | | | | | |
| | | No Longer Provides Natural Gas Marketing Services | | | | |
| Cumulative | --- | --- | --- | --- | (\$179,913) | |
| Tenaska | | | | | | |
| | | Purchaser - Natural Gas | | | \$/Unit | |
| Month | --- | --- | 225,930 | \$2.281415 | \$515,440 | |
| FYTD | --- | --- | 1,437,221 | \$1.857545 | \$2,669,703 | |
| Cumulative | --- | --- | 42,754,434 | \$4.619308 | \$196,669,358 | |
| Sandstone | | | | | | |
| | | Purchaser - Natural Gas Liquids | | | | |
| Month | --- | 81,236 | 8,740 | \$5.064197 | \$44,261 | |
| FYTD | --- | 382,410 | 40,996 | \$4.340301 | \$177,935 | |
| Cumulative | --- | 11,846,709 | 1,260,671 | \$11.759711 | \$14,825,127 | |
| | Natural Gas (Mcf)*** | NGLs (gal) | Purchased (Dth's) | \$\$ Per Unit (\$\$/Dth) | Total (\$\$) | |
| Total month | 206,278 | 81,236 | 234,670 | \$2.265753 | \$531,704 | |
| Total FYTD | 1,302,983 | 382,410 | 1,478,217 | \$1.755943 | \$2,595,665 | |
| Total CYTD | 919,555 | 249,664 | 1,018,650 | \$1.736067 | \$1,768,445 | |
| Cumulative | 39,260,967 | 11,846,709 | 44,015,105 | \$4.717488 | \$206,814,184 | |

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

**Rounded to nearest dollar

Table 6 - Helium Resources Evaluation

June - 2016

All Volumes in Mcf at 14.7 psia & 70°F

| Revenue Collected From Federal Leaseholds | Month* | FYTD* |
|---|--------------------|---------------------|
| Fee Sales & Royalties | \$1,455,382 | \$13,790,630 |
| Natural Gas Royalties (1) | \$0 | \$0 |
| Natural Gas Rentals | \$0 | \$0 |
| Other | \$50,880 | \$364,143 |
| Revenue Collected from Federal Lease Holds | \$1,479,245 | \$13,843,036 |

*Totals do not sum

| Helium Analysis and Evaluation | Month | FYTD |
|---|-------|------|
| Number of Sample Request Letters Sent | 0 | 0 |
| Number of Samples Received | 0 | 0 |
| Number of Samples Analyzed | 0 | 2 |
| Total Number of Samples Analyzed For Resources Division | 0 | 3 |
| Total Number of Other Samples Analyzed (2) | 19 | 86 |

U. S. Helium Production

| <i>Domestic</i> | FY Volume | CY Volume |
|--|-----------|-------------|
| 2011 Helium Sold | 4,531,140 | 4,645,930 |
| 2012 Helium Sold | 4,725,187 | 4,623,130 |
| 2013 Helium Sold | 4,279,765 | 4,166,708 |
| 2014 Helium Sold | 3,815,746 | 3,466,014 |
| 2015 Helium Sold | 4,559,100 | 4,644,278 |
| Estimated Helium Resources as of 12/31/2006(Mcf) | | 732,000,000 |

| | FY-2015 | CY-2015 |
|--------------------------------|-----------|-----------|
| U.S. Helium Exports (3) | 2,423,915 | 2,334,648 |

(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

June - 2016

All Volumes in Mcf at 14.65 psia & 60°F

| | Metered Gas | | | | | Transferred Gas Helium | | Stored Helium EOM | Charges Month | Billed (\$)** FYTD | |
|--|-------------|----------|----------|-----------|-----------|------------------------|--------|-------------------|---------------|--------------------|------------|
| | Gross Gas | Helium % | Helium | Helium | | | Month | | | | Cumulative |
| | Month | | | FYTD | CYTD | Cumulative | | | | | |
| Total All Contracts* | | | | | | | | | | | |
| Crude Acquired | 56,121 | 69.6% | 39,035 | 358,335 | 258,352 | 30,724,292 | 46,467 | 54,918,812 | | | |
| Crude Disposed | 157,572 | 74.0% | 116,627 | 786,330 | 596,508 | 51,175,385 | 46,467 | 30,166,239 | \$422,938 | Storage Fees | |
| Grade-A Rdlvrd | 0 | | 0 | 0 | 0 | 1,478,718 | | | \$254,561 | RMF Fees | |
| Net/Balance | (101,451) | | (77,592) | (427,995) | (338,156) | (21,929,811) | 0 | 24,752,573 | \$677,499 | \$5,718,406 | |
| Total Prior Contracts (TERMINATED) | | | | | | | | | | | |
| 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 | | | |
| Linde Gas North America, LLC, Contract no. 3249 | | | | | | | | | | | |
| Crude Acquired | | | | | | | | | | | |
| Crude Disposed | | | | | | | | | | | |
| Net/Balance | | | | | | | | | | | |
| Praxair, Inc., Contract no. 3251 | | | | | | | | | | | |
| Crude Acquired | | | | | | | | | | | |
| Crude Disposed | | | | | | | | | | | |
| Net/Balance | | | | | | | | | | | |
| Air Products, L.P., Contract no. 3256 | | | | | | | | | | | |
| Crude Acquired | | | | | | | | | | | |
| Crude Disposed | | | | | | | | | | | |
| Net/Balance | | | | | | | | | | | |
| IACX Energy, Contract no. 3297 | | | | | | | | | | | |
| Crude Acquired | | | | | | | | | | | |
| Crude Disposed | | | | | | | | | | | |
| Net/Balance | | | | | | | | | | | |
| Pioneer Natural Resources USA, Inc, Contract no. 3286 | | | | | | | | | | | |
| Crude Acquired | | | | | | | | | | | |
| Crude Disposed | | | | | | | | | | | |
| Net/Balance | | | | | | | | | | | |
| Keyes Helium Co., LLC, Contract no. 3287 | | | | | | | | | | | |
| Crude Acquired | | | | | | | | | | | |
| Crude Disposed | | | | | | | | | | | |
| Net/Balance | | | | | | | | | | | |
| Air Liquide Helium America, Inc., Contract no. 3284 | | | | | | | | | | | |
| Crude Acquired | | | | | | | | | | | |
| Crude Disposed | | | | | | | | | | | |
| Net/Balance | | | | | | | | | | | |
| Matheson Tri-Gas, Inc., Contract no. 3288 | | | | | | | | | | | |
| Crude Acquired | | | | | | | | | | | |
| Crude Disposed | | | | | | | | | | | |
| Net/Balance | | | | | | | | | | | |
| Airgas Merchant Gases, Contract no. 3290 | | | | | | | | | | | |
| Crude Acquired | | | | | | | | | | | |
| Crude Disposed | | | | | | | | | | | |
| Net/Balance | | | | | | | | | | | |
| Global Gases America, Contract no. 3293 | | | | | | | | | | | |
| Crude Acquired | | | | | | | | | | | |
| Crude Disposed | | | | | | | | | | | |
| Net/Balance | | | | | | | | | | | |
| Linn Operating, Inc., Contract no. 3296 | | | | | | | | | | | |
| Crude Acquired | | | | | | | | | | | |
| Crude Disposed | | | | | | | | | | | |
| Net/Balance | | | | | | | | | | | |

| Government Helium | |
|--|-----------|
| Remaining Crude Acquired beginning of the month | 5,572,386 |
| Crude Disposed: In Kind Sales transferred for the month | 0 |
| Conservation Crude Sales/Reserve Sell Down transferred (month) | 0 |
| Gains and Losses for the month | (555) |
| Net/Balance of Purchased Helium Remaining for Sale | 5,571,832 |

*Includes In Kind and Conservation Crude transfers from Government storage

**Rounded to nearest dollar

Table 8 - Compression & CHEU (Charges & Operations)

June - 2016

| Field/CHEU Compressor Operations | | Month | FYTD | Cumulative |
|--|--------------|---------|----------|-------------|
| Spot gas fuel price * | \$ per/MMBTU | \$2.28 | \$1.83 | \$4.91 |
| Fuel used * (now includes field compression well head) | total MMBTU | 7,157 | 60,832 | 1,690,121 |
| Field Compression Fuel Cost * | \$dollars | \$0 | \$4,049 | \$658,447 |
| CHEU Compression Fuel Cost * | \$dollars | \$9,729 | \$66,271 | \$4,270,430 |
| CHEU Process Fuel Cost * | \$dollars | \$6,589 | \$40,824 | \$2,848,249 |
| Rental compressor(s) fuel consumed (well head) | \$dollars | \$0 | \$0 | \$207,234 |
| Rental Compressor(s) helium in fuel (Mcf x \$\$) | \$dollars | \$0 | \$0 | \$315,893 |
| Rental compressor(s) helium in fuel (Mcf) | Mcf | 0 | 0 | 3645 |
| #1 Compressor run time * | hours | 652 | 5,452 | 100,771 |
| #2 Compressor run time * | hours | 630 | 4,326 | 64,090 |
| #3 Compressor run time * | hours | 0 | 1,065 | 59,045 |

* Field/CHEU Compressor Operations based on Jun 16 activity

| Field Compressor Charges | Charges Billed (\$)* | | |
|--|----------------------|--------------------|----------------------|
| Linde Gas North America, LLC, Contract no. 3249 | | | |
| Praxair, Inc., Contract no. 3251 | | | |
| Air Products, L.P., Contract no. 3256 | | | |
| Keyes Helium Co., LLC, Contract no. 3287 | | | |
| SubTotal - Cliffside Refiners, LP (provides booster compression services) | \$0 | (\$217,296) | (\$11,422,651) |
| Cliffside Refiners, LP, GDA010003 (BLM provided fuel *, labor, supplies, etc.) | \$0 | \$88,817 | \$2,880,795 |
| Net Total - Cliffside Refiners, LP | \$0 | (\$128,479) | (\$8,541,856) |

* BLM provided fuel cost is based on May 16 fuel consumed

***Rounded to nearest dollar**

| Crude Helium Enrichment Unit (CHEU) CHEU Runtime | Month | | FYTD | | Cumulative |
|---|-------------|---------|-------------|---------|-------------|
| | Runtime Hrs | Percent | Runtime Hrs | Percent | Runtime Hrs |
| Processing feed gas | 698 | 96.9% | 6,070 | 92.3% | 110,434 |
| Producing residue gas | 669 | 93.0% | 5,195 | 79.0% | 107,913 |
| Producing helium product | 617 | 85.7% | 4,954 | 75.3% | 104,519 |
| Producing natural gas liquids | 622 | 86.3% | 5,066 | 77.0% | 103,423 |

| CHEU Charges | Charges Billed (\$)* | | |
|---|----------------------|---------------|-----------------|
| | Month | FYTD | Cumulative |
| Reservoir Management Fees (RMF) | \$254,561 | \$2,036,485 | \$31,541,687 |
| Total operating costs | (\$831,056) | (\$7,367,803) | (\$134,592,309) |
| Labor | \$130,284 | \$1,172,560 | \$13,947,763 |
| Compressor fuel cost May 16 | \$9,097 | \$72,011 | \$4,307,195 |
| HEU fuel cost May 16 | \$4,900 | \$39,380 | \$2,879,467 |
| Electrical power cost May 16 | \$130,358 | \$964,123 | \$20,315,227 |
| Other | \$57,336 | \$628,004 | \$12,845,260 |
| Sub Total - Items provided by BLM | \$331,975 | \$2,876,077 | \$57,504,266 |
| Total - Cliffside Refiners, LP, GDA030001 | (\$499,081) | (\$4,491,726) | (\$77,088,043) |

***Rounded to nearest dollar**

| CHEU Utility Usage | Month | FYTD | Cumulative |
|---|-----------|------------|-------------|
| Cheu Fuel Gas (Mcf) usage Jun 16 | 2,615 | 20,158 | 530,892 |
| Cheu Pure Water Usage (gallons) Jun 16 | 3,095 | 9,111 | 294,033 |
| Electricity Metered (Kwh) consumed May 16 | 2,780,781 | 20,902,655 | 117,600,526 |