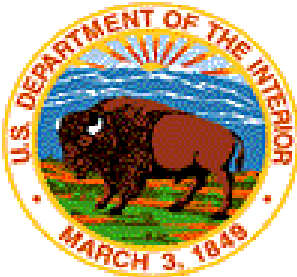


Bureau of Land Management

Amarillo Field Office

Helium Operations

Statistical Report
for



November - 2015



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

Compiled by: Joan Grochowina

Issued: September 12, 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

November - 2015

Helium Enrichment Unit Operations**Gas Processed**

| | Month Gross Volume | Month Net Helium | Average Percent | Gross FYTD | Net FYTD |
|----------------------------|-----------------------|---------------------|-----------------|------------|----------|
| Measured Plant Feed (Mcf*) | 349,377 | 48,639 | 13.92% | 511,025 | 76,153 |
| Helium Product (Mcf*) | 59,188 | 43,439 | 73.39% | 95,493 | 70,269 |
| Residue Natural Gas (Mcf*) | 134,418 | 27 | 0.02% | 218,047 | 27 |

* Volumes in Mcf at 14.65 psia & 60°F

Natural Gas & Liquids Produced**Gas Processed**

| | Month | FYTD |
|----------------------------|---------|---------|
| Natural Gas Sales (Mcf***) | 133,008 | 215,576 |
| NGL Sales (gallons) | 37,099 | 73,620 |

*** 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| Total Withdrawn (Mcf*) | 358,262 | 51,280 | 14.31% | 541,028 | 91,001 |
| Crude Injection (Mcf*) | 12,151 | 8,940 | 73.57% | 22,589 | 16,650 |
| Crude Production (Mcf*) | 2,326 | 1,609 | 69.16% | 18,426 | 13,405 |

* 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*) | | 203,104 | 886,000 | 901,000 | 20,952,729 |
| Conservation Crude Sale Volume Transferred (Mcf*) | 463,104 | 15,000 | 437,896 | 437,896 | 20,489,625 |
| Conservation Helium in Storage (EOM) (Mcf*) | | 6,110,596 | | | |

* Volumes in Mcf at 14.65 psia & 60°F

In Kind Helium

| | Month | FYTD | CYTD | Cumulative |
|---------------------------------|-------|--------|---------|------------|
| Sale Volumes Transferred (Mcf*) | 0 | 24,765 | 124,833 | 3,288,307 |
| Sale Volumes Outstanding (Mcf*) | 2,915 | | | |

* 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*) | 47,921 | 32,283 | 67.37% | 64,179 |
| Crude Disposed (Mcf*) | 83,667 | 58,987 | 70.50% | 127,049 |
| Net Balance (Mcf*) | (35,746) | (26,704) | | (62,870) |
| Balance of Stored Helium End Of Month (Mcf*) | | 2,671,768 | | |

* Volumes in Mcf at 14.65 psia & 60°F

Revenue / Charges**Helium Storage Contracts** (Charges Billed (\$))

| | Month | FYTD |
|---------------------------------------|-----------|-----------|
| Storage Fees Billed (\$) | \$437,685 | \$834,487 |
| Reservoir Management Fees Billed (\$) | \$254,561 | \$254,561 |

Field Compressor Charges (Charges Billed (\$))

| | Month | FYTD |
|--|-------|------------|
| Funded by the Refiners (provides for booster compression services) | \$0 | (\$72,432) |
| Cliffside Refiners, LP, by Agreement #GDA010003 (reimburses BLM for fuel, labor, supplies, etc.) | \$0 | \$29,606 |
| Net-Total (Funded by the Refiners for compression costs.) | \$0 | (\$42,826) |

Enrichment Unit Charges (Charges Billed (\$))

| | Month | FYTD |
|---|-------------|---------------|
| Reservoir Management Fees (RMF) | \$254,561 | \$254,561 |
| Total operating costs | (\$785,687) | (\$1,636,376) |
| Sub Total - Items provided by BLM | \$286,606 | \$638,215 |
| Total - Cliffside Refiners, LP, GDA030001 | (\$499,081) | (\$998,161) |

Conservation Helium - Natural Gas - Liquid Sales

(Charges Billed (\$))

| | Month | FYTD |
|---------------------------------|-----------|-----------|
| Conservation Crude Helium Sales | \$0 | \$0 |
| In Kind Sales | \$0 | \$0 |
| Natural Gas & Liquid Sales | \$257,394 | \$481,475 |

Helium Resources Evaluation

| | Month | FYTD |
|--|---------------|--------------|
| Revenue Collected from Federal Lease Holds | \$1,548,804 | \$3,075,018 |
| Helium Sample Collection Report for month | Submitted - 0 | Received - 0 |
| | | Analyzed - 8 |

*Rounded to nearest dollar

Table 2 - Bush Dome Reservoir Operations

#####

| | | 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 | | 358,262 | 222,179,559 | 51,280 | 41,600,298 | 89,308 | 54,739,370 | 193,528 | 112,604,725 | 20,720 | 11,374,849 | 3,426 | 1,860,318 |
| BIVINS A-3 | Nov-15 | 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 | Nov-15 | 5,281 | 11,298,886 | 3,739 | 6,717,690 | 1,245 | 2,776,973 | 245 | 1,593,844 | 17 | 157,811 | 36 | 52,569 |
| BIVINS A-13 | Nov-15 | 21,632 | 8,339,855 | 7,617 | 4,410,074 | 5,454 | 2,145,255 | 7,537 | 1,563,292 | 861 | 173,318 | 164 | 47,915 |
| BIVINS A-14 | Nov-15 | 24,227 | 9,367,317 | 8,166 | 5,440,163 | 6,064 | 2,375,670 | 8,825 | 1,350,791 | 958 | 146,038 | 214 | 54,655 |
| BIVINS A-4 | Nov-15 | 28,047 | 13,293,921 | 3,138 | 2,368,685 | 6,748 | 3,221,370 | 16,167 | 6,893,574 | 1,701 | 692,298 | 293 | 117,994 |
| BUSH A-2 | Nov-15 | 38,058 | 12,933,207 | 3,631 | 1,931,031 | 9,556 | 3,170,045 | 22,147 | 7,006,491 | 2,467 | 717,274 | 257 | 108,367 |
| Injection | Nov-15 | 12,151 | 66,415,663 | 8,940 | 47,975,984 | 2,858 | 17,108,018 | 274 | 779,355 | 0 | 34 | 78 | 552,273 |
| inj Bivins A-3 | Nov-15 | 0 | (25,652,315) | 0 | (18,384,452) | 0 | (6,554,549) | 0 | (332,777) | 0 | 0 | 0 | (380,537) |
| inj Bivins A-6 | Nov-15 | (12,151) | (24,353,614) | (8,943) | (17,626,186) | (2,857) | (6,473,011) | (273) | (141,872) | 0 | (71) | (78) | (112,475) |
| inj Bivins A-13 | Nov-15 | 0 | (6,490,417) | 0 | (4,706,191) | 0 | (1,656,853) | 0 | (122,391) | 0 | (2) | 0 | (4,980) |
| inj Bivins A-14 | Nov-15 | 0 | (6,501,333) | 0 | (4,767,421) | 0 | (1,602,106) | 0 | (126,303) | 0 | (7) | 0 | (5,497) |
| inj Bivins A-4 | Nov-15 | 0 | (2,527,801) | 0 | (1,848,815) | 0 | (601,353) | 0 | (42,016) | 0 | 0 | 0 | (35,617) |
| inj Bush A-2 | Nov-15 | 0 | (867,658) | 0 | (625,258) | 0 | (215,406) | 0 | (13,980) | 0 | 0 | 0 | (13,015) |
| Production | Nov-15 | 2,326 | 1,236,294 | 1,609 | 910,983 | 550 | 265,968 | 140 | 47,692 | 11 | 3,195 | 16 | 8,456 |
| BIVINS A-1 | Nov-15 | 0 | 2,686,608 | 0 | 48,896 | 0 | 636,995 | 0 | 1,798,415 | 0 | 175,704 | 0 | 26,597 |
| BIVINS A-2 | Nov-15 | 14,492 | 13,918,789 | 485 | 1,877,897 | 3,381 | 3,409,937 | 9,482 | 7,743,223 | 1,000 | 771,765 | 144 | 115,966 |
| BIVINS A-5 | Nov-15 | 15,191 | 15,930,551 | 2,783 | 2,023,900 | 3,876 | 3,904,514 | 7,587 | 8,962,258 | 826 | 901,883 | 118 | 137,996 |
| BIVINS A-7 | Nov-15 | 11,993 | 11,744,873 | 3,662 | 2,765,418 | 3,126 | 2,956,969 | 4,608 | 5,387,320 | 518 | 549,341 | 80 | 85,825 |
| BIVINS A-9 | Nov-15 | 18,528 | 10,299,747 | 413 | 195,965 | 4,781 | 2,532,863 | 11,916 | 6,790,786 | 1,266 | 686,064 | 152 | 94,068 |
| BIVINS A-11 | Nov-15 | 15,957 | 6,388,254 | 495 | 137,421 | 4,075 | 1,588,970 | 10,152 | 4,173,115 | 1,085 | 428,590 | 151 | 60,159 |
| BIVINS A-15 | Nov-15 | 27,143 | 9,653,293 | 473 | 427,699 | 6,388 | 2,300,207 | 18,099 | 6,204,664 | 1,853 | 621,108 | 329 | 99,616 |
| BIVINS B-1 | Nov-15 | 26,444 | 7,871,671 | 579 | 296,398 | 6,484 | 1,907,065 | 17,271 | 5,067,755 | 1,799 | 519,870 | 312 | 80,583 |
| BIVINS B-2 | Nov-15 | 22,139 | 6,539,947 | 425 | 123,213 | 5,648 | 1,638,268 | 14,187 | 4,249,744 | 1,489 | 437,257 | 392 | 91,465 |
| BUSH A-1 | Nov-15 | 0 | 5,721,962 | 0 | 104,140 | 0 | 1,356,677 | 0 | 3,830,281 | 0 | 374,216 | 0 | 56,647 |
| BUSH A-3 | Nov-15 | 18,229 | 11,980,266 | 6,167 | 2,815,695 | 4,640 | 2,961,474 | 6,546 | 5,537,933 | 725 | 560,421 | 150 | 104,743 |
| BUSH A-4 | Nov-15 | 17,335 | 8,573,451 | 1,688 | 1,573,530 | 4,437 | 2,144,014 | 10,028 | 4,350,319 | 1,085 | 443,836 | 98 | 61,752 |
| BUSH A-5 | Nov-15 | 27,522 | 16,411,476 | 7,314 | 3,767,433 | 7,035 | 4,118,627 | 11,713 | 7,634,798 | 1,297 | 776,455 | 163 | 114,163 |
| BUSH A-8 | Nov-15 | 13,673 | 4,175,323 | 264 | 76,506 | 3,408 | 1,010,876 | 8,860 | 2,758,163 | 920 | 277,832 | 222 | 51,947 |
| BUSH A-9 | Nov-15 | 0 | 3,860,915 | 0 | 105,037 | 0 | 930,915 | 0 | 2,537,187 | 0 | 253,463 | 0 | 34,312 |
| BUSH A-11 | Nov-15 | 8,108 | 4,510,239 | 169 | 131,904 | 1,949 | 1,078,724 | 5,329 | 2,948,551 | 551 | 299,387 | 111 | 51,673 |
| BUSH B-1 | Nov-15 | 4,264 | 3,305,244 | 77 | 62,055 | 1,014 | 784,264 | 2,830 | 2,208,830 | 302 | 217,754 | 40 | 32,342 |
| FUQUA A-1 | Nov-15 | 0 | 2,954,098 | 0 | 53,854 | 0 | 702,798 | 0 | 1,975,175 | 0 | 193,573 | 0 | 28,699 |
| FUQUA A-2 | Nov-15 | 0 | 132,119 | 0 | 2,404 | 0 | 31,322 | 0 | 88,458 | 0 | 8,637 | 0 | 1,297 |
| FUQUA A-3 | Nov-15 | 0 | 9,303,909 | 0 | 577,005 | 0 | 2,277,687 | 0 | 5,790,357 | 0 | 583,701 | 0 | 75,160 |
| TT Fuel | Nov-15 | 1,018 | 0 | 19 | 0 | 243 | 0 | 675 | 0 | 72 | 0 | 10 | 0 |
| field-wide pcts | | | | 14.31% | 18.72% | 24.93% | 24.64% | 54.02% | 50.68% | 5.78% | 5.12% | 0.96% | 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 Nov-15 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 - 14 | 85.349 | 22.474 |
| Injection 2003 - 14 | (1.300) | (1.067) |
| Produced to Date 2015 | 4.450 | 0.779 |
| Injected to Date 2015 | (0.064) | (0.047) |
| Amount of Raw Gas Available to CHEU | 92.129 | =====> 11.116 total helium in reservoir |
| Estimated Bottom Hole Pressure | 339.281 | 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

November - 2015

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 | Nov-15 | 349,377 | 87,249,419 | 48,639 | 21,597,886 | 86,983 | 21,885,022 | 190,024 | 38,871,888 | 20,377 | 4,146,642 | 3,354 | 747,981 |
| Calculated Feed | Nov-15 | 354,918 | 86,952,379 | 49,655 | 21,564,052 | 88,514 | 21,805,190 | 192,713 | 38,680,823 | 20,636 | 4,153,718 | 3,400 | 748,595 |
| Feed to Box | Nov-15 | 351,951 | 86,413,139 | 49,655 | 21,564,231 | 88,514 | 21,805,272 | 192,713 | 38,680,869 | 20,636 | 4,153,721 | 433 | 209,046 |
| Cheu Product | Nov-15 | 59,188 | 27,184,281 | 43,439 | 21,258,908 | 13,915 | 5,203,358 | 1,440 | 532,485 | 13 | 575 | 381 | 188,954 |
| Residue | Nov-15 | 134,418 | 38,793,179 | 27 | 1,809 | 3,441 | 958,993 | 118,859 | 34,421,480 | 12,090 | 3,409,647 | 2 | 1,250 |
| Cold Box Vent | Nov-15 | 43,528 | 14,715,248 | 115 | 88,339 | 36,556 | 13,039,749 | 6,849 | 1,526,043 | 0 | 118 | 8 | 60,999 |
| Flare/Boot Strap | Nov-15 | 43,528 | 5,231,497 | 115 | 49,119 | 36,556 | 4,294,751 | 6,849 | 788,212 | 0 | 93,583 | 8 | 5,832 |
| Fuel From Cheu | Nov-15 | 5,039 | 1,180,787 | 3 | 345 | 131 | 34,914 | 4,064 | 957,933 | 842 | 187,594 | 0 | 0 |
| Shrinkage/Loss | Nov-15 | 3,006 | 419,443 | 0 | 0 | 0 | 0 | 0 | 0 | 3,006 | 419,443 | 0 | 0 |
| Unaccounted* | Nov-15 | 32,424 | 2,690,076 | 2,668 | 132,123 | 13,161 | 2,060,694 | 16,578 | 492,868 | (0) | 1,102 | 17 | 3,289 |

*Before October 2004, the values are estimated

Storage Operations

Inventory (contained helium)

| | Government | Private |
|---------------------------|------------|-----------|
| Beginning inventory | 6,131,704 | 2,660,808 |
| net acceptances + | 0 | 0 |
| redeliveries | 0 | (26,704) |
| In Kind Transfers | 0 | 0 |
| Conservation Crude Sales | (15,000) | 15,000 |
| Gain/loss | (6,108) | |
| Ending Inventory | 6,110,596 | 2,649,104 |
| Total Helium in Reservoir | 11,116,250 | |
| Total Helium in Storage | 8,759,700 | |
| Helium in native gas | 2,356,550 | |

Crude Helium Pipeline

| | Gross | Net Helium | Percent |
|---------------------------------------|---------|------------|---------|
| Beginning inventory | 32,139 | 22,579 | 70.26% |
| Measured to Pipeline (Private Plants) | 47,921 | 32,351 | 67.51% |
| Measured from Pipeline (Private Plant | 83,687 | 59,049 | 70.56% |
| HEU Production | 59,188 | 43,439 | 73.39% |
| Injection | 12,151 | 8,940 | 73.57% |
| Production | 2,326 | 1,609 | 69.16% |
| Ending Inventory | 36,632 | 25,882 | 70.65% |
| Gain/Loss | (9,104) | (6,108) | |

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

November - 2015

| 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \$0 |
| Total FYTD | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \$0 |
| Total CYTD | 34,399 | 0 | 0 | 0 | 0 | 61,746 | 96,145 | 94,661 | \$7,195,236 |
| Cumulative | 1,815,086 | 108,674 | 450 | 271,584 | 421,753 | 725,376 | 3,342,922 | 3,291,147 | \$187,637,984 |
| In Kind Transfers | | | | | | | Month | FYTD | CYTD Cumulative |
| Transferred | | | | | | | 0 | 24,765 | 124,833 3,288,307 |
| Volume outstanding | | | | | | | 2,915 | | |

* 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

November - 2015

Helium & Natural Gas Sales

| | Award Volume* | Outstanding* | Sales* | Charges Billed (\$)*** | |
|-------------------------------------|---------------|--------------|------------|------------------------|-----------------|
| Conservation Helium | | | | | |
| (billed quarterly) | | | | | |
| Air Liquide Helium America, Inc. | | | | | |
| Month | 0 | (20,000) | 20,000 | \$2,080,000 | |
| 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 | (183,104) | 183,104 | \$19,042,816 | |
| 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 | (203,104) | 203,104 | | 0 |
| Total FYTD | 626,000 | 0 | 886,000 | | \$0 |
| Total CYTD | 901,000 | | 901,000 | | \$0 |
| Cumulative | 20,952,729 | | 20,952,729 | | \$1,473,267,703 |
| Conservation Crude Transfers | | | | | |
| | | Month | FYTD | CYTD | Cumulative |
| Transferred | | 15,000 | 437,896 | 437,896 | 20,489,625 |
| Volume outstanding | | 463,104 | | | |

* Volumes in Mcf at 14.65 psia & 60°F

Natural Gas/Liquid Sales

| | Natural Gas (Mcf)*** | NGLs (gal) | Decatherms | Avg Btu Value | Charges Billed (\$)** |
|---|----------------------|--|-------------------|--------------------------|-----------------------|
| <u>El Paso Natural Gas</u> | | | | | |
| | | Provides Measured Firm/Interruptible Transportation Services | | | (billed monthly) |
| Month | 133,008 | --- | 146,618 | 1,102 | (\$27,997) |
| FYTD | 215,576 | --- | 237,549 | 1,102 | (\$55,994) |
| Cumulative | 38,173,560 | --- | 41,880,408 | 1,097 | (\$4,304,409) |
| <u>Minerals Management Service</u> | | | | | |
| | | No Longer Provides Natural Gas Marketing Services | | | |
| Cumulative | --- | --- | --- | --- | (\$179,913) |
| <u>Tenaska</u> | | | | | |
| | | Purchaser - Natural Gas | | | \$/Unit |
| Month | --- | --- | 134,125 | \$2.002413 | \$268,574 |
| FYTD | --- | --- | 242,125 | \$2.079022 | \$503,383 |
| Cumulative | --- | --- | 41,559,338 | \$4.700017 | \$194,503,038 |
| <u>Sandstone</u> | | | | | |
| | | Purchaser - Natural Gas Liquids | | | |
| Month | --- | 37,099 | 3,975 | \$4.230777 | \$16,817 |
| FYTD | --- | 73,620 | 7,899 | \$4.315239 | \$34,086 |
| Cumulative | --- | 11,537,919 | 1,227,574 | \$11.959587 | \$14,681,278 |
| | Natural Gas (Mcf)*** | NGLs (gal) | Purchased (Dth's) | \$\$ Per Unit (\$\$/Dth) | Total (\$\$) |
| Total month | 133,008 | 37,099 | 138,100 | \$1.863824 | \$257,394 |
| Total FYTD | 215,576 | 73,620 | 250,024 | \$1.925716 | \$481,475 |
| Total CYTD | 2,019,624 | 683,925 | 2,288,745 | \$2.423324 | \$5,546,372 |
| Cumulative | 38,173,560 | 11,537,919 | 42,786,912 | \$4.803491 | \$204,699,994 |

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

**Rounded to nearest dollar

Table 6 - Helium Resources Evaluation

November - 2015

All Volumes in Mcf at 14.7 psia & 70°F

| Revenue Collected From Federal Leaseholds | Month* | FYTD* |
|--|-------------|-------------|
| Fee Sales & Royalties | \$1,547,656 | \$3,038,263 |
| Natural Gas Royalties (1) | \$0 | \$0 |
| Natural Gas Rentals | \$0 | \$0 |
| Other | \$36,513 | \$72,120 |
| Revenue Collected from Federal Lease Holds | \$1,548,804 | \$3,075,018 |

*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 | 0 |
| Total Number of Samples Analyzed For Resources Division | 0 | 0 |
| Total Number of Other Samples Analyzed (2) | 8 | 13 |

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-2014 | CY-2014 |
|--------------------------------|-----------|-----------|
| U.S. Helium Exports (3) | 2,553,129 | 2,432,311 |

(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

November - 2015

All Volumes in Mcf at 14.65 psia & 60°F

| | Metered Gas | | | | | | Transferred Gas | | Stored Helium EOM | Charges | Billed (\$)** FYTD |
|---|-------------|----------|----------|----------|-----------|--------------|-----------------|------------|-------------------|-----------|--------------------|
| | Gross Gas | Helium % | Helium | Helium | | | Helium | | | | |
| | Month | | | FYTD | CYTD | Cumulative | Month | Cumulative | | | |
| Total All Contracts* | | | | | | | | | | | |
| Crude Acquired | 47,921 | 67.4% | 32,283 | 64,179 | 328,807 | 30,430,136 | 67,395 | 54,125,688 | | | |
| Crude Disposed | 83,667 | 70.5% | 58,987 | 127,049 | 999,319 | 50,516,104 | 52,395 | 29,880,144 | | \$437,685 | Storage Fees |
| Grade-A Rdlvrd | 0 | | 0 | 0 | 0 | 1,478,718 | | | | \$254,561 | RMF Fees |
| Net/Balance | (35,746) | | (26,704) | (62,870) | (670,512) | (21,564,686) | 15,000 | 24,245,544 | 2,671,768 | \$692,246 | \$1,089,048 |
| 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 | 6,131,704 |
| Crude Disposed: In Kind Sales transferred for the month | 0 |
| Conservation Crude Sales/Reserve Sell Down transferred (month) | (15,000) |
| Gains and Losses for the month | (6,108) |
| Net/Balance of Purchased Helium Remaining for Sale | 6,110,596 |

Includes In Kind and Conservation Crude transfers from Government storage**Rounded to nearest dollar*

Table 8 - Compression & CHEU (Charges & Operations) November - 2015

| Field/CHEU Compressor Operations | | Month | FYTD | Cumulative |
|--|--------------|---------|---------|-------------|
| Spot gas fuel price * | \$ per/MMBTU | \$2.00 | \$2.11 | \$5.01 |
| Fuel used * (now includes field compression well head) | total MMBTU | 2,713 | 7,565 | 1,636,854 |
| Field Compression Fuel Cost * | \$dollars | \$102 | \$2,320 | \$656,719 |
| CHEU Compression Fuel Cost * | \$dollars | \$2,604 | \$7,606 | \$4,211,765 |
| CHEU Process Fuel Cost * | \$dollars | \$2,720 | \$6,029 | \$2,813,454 |
| 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 | 258 | 1,014 | 96,333 |
| #2 Compressor run time * | hours | 331 | 493 | 60,257 |
| #3 Compressor run time * | hours | 395 | 707 | 58,687 |

* Field/CHEU Compressor Operations based on Nov 15 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 | (\$72,432) | (\$11,277,787) |
| Cliffside Refiners, LP, GDA010003 (BLM provided fuel *, labor, supplies, etc.) | \$0 | \$29,606 | \$2,821,584 |
| Net Total - Cliffside Refiners, LP | \$0 | (\$42,826) | (\$8,456,204) |

* BLM provided fuel cost is based on Oct 15 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 | 707 | 98.2% | 998 | 68.2% | 105,362 |
| Producing residue gas | 569 | 79.0% | 860 | 58.8% | 103,578 |
| Producing helium product | 484 | 67.3% | 775 | 52.9% | 100,340 |
| Producing natural gas liquids | 518 | 72.0% | 809 | 55.3% | 99,167 |

| CHEU Charges | Charges Billed (\$)* | | |
|--|-----------------------------|--------------------|-----------------------|
| | Month | FYTD | Cumulative |
| Reservoir Management Fees (RMF) | \$254,561 | \$254,561 | \$29,759,763 |
| Total operating costs | (\$785,687) | (\$1,636,376) | (\$128,860,882) |
| Labor | \$130,284 | \$260,569 | \$13,035,772 |
| Compressor fuel cost Oct 15 | \$7,220 | \$21,348 | \$4,256,532 |
| HEU fuel cost Oct 15 | \$3,309 | \$11,174 | \$2,851,261 |
| Electrical power cost Oct 15 | \$74,460 | \$202,457 | \$19,553,561 |
| Other | \$71,333 | \$142,667 | \$12,359,923 |
| Sub Total - Items provided by BLM | \$286,606 | \$638,215 | \$55,266,403 |
| Total - Cliffside Refiners, LP, GDA030001 | (\$499,081) | (\$998,161) | (\$73,594,479) |

***Rounded to nearest dollar**

| CHEU Utility Usage | Month | FYTD | Cumulative |
|---|-----------|-----------|-------------|
| Cheu Fuel Gas (Mcf) usage Nov 15 | 1,289 | 2,683 | 513,417 |
| Cheu Pure Water Usage (gallons) Nov 15 | 1,852 | 1,878 | 286,801 |
| Electricity Metered (Kwh) consumed Oct 15 | 1,198,922 | 3,834,993 | 100,532,864 |