Bureau of Land Management



Amarillo Field Office Helium Operations Statistical Report for

NATIONAL SYSTEM OF PUBLIC LANDS

U.S. DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

October - 2016

Distribution:

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Amarillo, Texas

Compiled by: Joan Grochowina

Issued: April 28, 2017

REVISED

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

Approved for Distribution: Joan Grochowina	Date:	June 9, 2017	
Helium Storage Analyst, AmFO			

Table 1 - Summary of Helium Operations

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Table 1 - Summary of Hellum Opera					
Helium Enrichment Unit Operations Gas Processed	Month Gross Volume	Month Net Helium	Average Percent	Gross FYTD	Net FYTI
Measured Plant Feed (Mcf*)	427,809	69,609	16.27%	427,809	69,60
Helium Product (Mcf*)	88,996	66,789	75.05%	88,996	66,78
Residue Natural Gas (Mcf*)	205,319	1	0.00%	205,319	
* Volumes in Mcf at 14.65 psia & 60°F					
Natural Gas & Liquids Produced					
Gas Processed				Month	FYT
Natural Gas Sales (Mcf***)				223,755	223,75
NGL Sales (gallons)				70,958	70,95
*** 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 FYT
_	446,029	72,563	16.27%	446,029	72,56
Total Withdrawn (Mcf*)	446,029	72,563	00.00%	0	72,50
Crude Injection (Mcf*)	0	0	00.00%	0	
Crude Production (Mcf*) Volumes in Mcf at 14.65 psia & 60°F	0	U	00.00%	0	
<u>'</u>					
Storage Operations	Value C. C		E. (T.)	0).75	2
Conservation Helium	Volume Outstanding	Month	FYTD	CYTD	Cumulati
Conservation Crude Sale Volume Sold/Paid (Mcf*)	45.005	825,000	825,000	1,000,000	21,952,72
Conservation Crude Sale Volume Transferred (Mcf*)	15,000	825,000	825,000	1,000,000	21,937,72
Conservation Helium in Storage (EOM) (Mcf*) Volumes in Mcf at 14.65 psia & 60°F		4,533,761			
Totalinoo iii mor at 1 noo pola a oo 1					
In Kind Helium		Month	FYTD	CYTD	Cumulat
Sale Volumes Transferred (Mcf*)		0	0	97,171	3,385,47
, ,		44.044		·	
		41,841			
* Volumes in Mcf at 14.65 psia & 60°F Private Company Helium Storage Contracts		Month	Month Net Helium	Average Percent	Annual Helium FYTD
* Volumes in Mcf at 14.65 psia & 60°F Private Company Helium Storage Contracts Contact Activity			Month Net Helium 34,262	Average Percent 66.35%	Annual Helium FYTD 34,26
Sale Volumes Outstanding (Mcf*) * Volumes in Mcf at 14.65 psia & 60°F Private Company Helium Storage Contracts Contact Activity Crude Acquired (Mcf*) Crude Disposed (Mcf*)		Month Gross Volume	Net Helium		Helium FYTD
* Volumes in Mcf at 14.65 psia & 60°F Private Company Helium Storage Contracts Contact Activity Crude Acquired (Mcf*)		Month Gross Volume 51,639	Net Helium 34,262	66.35%	Helium FYTD 34,26
Private Company Helium Storage Contracts Contact Activity Crude Acquired (Mcf*) Crude Disposed (Mcf*) Net Balance (Mcf*) Balance of Stored Helium End Of Month (Mcf*)		Month Gross Volume 51,639 135,483	Net Helium 34,262 97,842	66.35%	Helium FYTD 34,26 97,8 ²
* Volumes in Mcf at 14.65 psia & 60°F Private Company Helium Storage Contracts Contact Activity Crude Acquired (Mcf*) Crude Disposed (Mcf*) Net Balance (Mcf*) Balance of Stored Helium End Of Month (Mcf*) * Volumes in Mcf at 14.65 psia & 60°F Revenue / Charges		Month Gross Volume 51,639 135,483	Net Helium 34,262 97,842 (63,580)	66.35% 72.22%	Helium FYTD 34,26 97,84 (63,58
Private Company Helium Storage Contracts Contact Activity Crude Acquired (Mcf*) Crude Disposed (Mcf*) Net Balance (Mcf*) Balance of Stored Helium End Of Month (Mcf*) * Volumes in Mcf at 14.65 psia & 60°F Revenue / Charges Helium Storage Contracts (Charges Billed (\$)		Month Gross Volume 51,639 135,483	Net Helium 34,262 97,842 (63,580)	66.35% 72.22% Month	Helium FYTD 34,26 97,84 (63,58
Private Company Helium Storage Contracts Contact Activity Crude Acquired (Mcf*) Crude Disposed (Mcf*) Net Balance (Mcf*) Balance of Stored Helium End Of Month (Mcf*) Volumes in Mcf at 14.65 psia & 60°F Revenue / Charges Helium Storage Contracts (Charges Billed (\$) Storage Fees Billed (\$)		Month Gross Volume 51,639 135,483	Net Helium 34,262 97,842 (63,580)	66.35% 72.22% Month \$594,724	Helium FYTD 34,26 97,8 (63,56
Private Company Helium Storage Contracts Contact Activity Crude Acquired (Mcf*) Crude Disposed (Mcf*) Net Balance (Mcf*) Balance of Stored Helium End Of Month (Mcf*) Volumes in Mcf at 14.65 psia & 60°F Revenue / Charges Helium Storage Contracts (Charges Billed (\$) Storage Fees Billed (\$)		Month Gross Volume 51,639 135,483	Net Helium 34,262 97,842 (63,580)	66.35% 72.22% Month	Helium FYTD 34,26 97,8 (63,56
Private Company Helium Storage Contracts Contact Activity Crude Acquired (Mcf*) Crude Disposed (Mcf*) Net Balance (Mcf*) Balance of Stored Helium End Of Month (Mcf*) 'Volumes in Mcf at 14.65 psia & 60°F Revenue / Charges Helium Storage Contracts (Charges Billed (\$) Storage Fees Billed (\$) Reservoir Management Fees Billed (\$)		Month Gross Volume 51,639 135,483	Net Helium 34,262 97,842 (63,580)	66.35% 72.22% Month \$594,724	Helium FYTD 34,26 97,84 (63,58
Private Company Helium Storage Contracts Contact Activity Crude Acquired (Mcf*) Crude Disposed (Mcf*) Net Balance (Mcf*) Balance of Stored Helium End Of Month (Mcf*) 'Volumes in Mcf at 14.65 psia & 60°F Revenue / Charges Helium Storage Contracts (Charges Billed (\$) Storage Fees Billed (\$) Reservoir Management Fees Billed (\$) Field Compressor Charges (Charges Billed (\$)	ces)	Month Gross Volume 51,639 135,483	Net Helium 34,262 97,842 (63,580)	66.35% 72.22% Month \$594,724 \$0	Helium FYTD 34,26 97,84 (63,58
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Private Company Helium Storage Contracts Contact Activity Crude Acquired (Mcf*) Crude Disposed (Mcf*) Net Balance (Mcf*) Balance of Stored Helium End Of Month (Mcf*) ' Volumes in Mcf at 14.65 psia & 60°F Revenue / Charges Helium Storage Contracts (Charges Billed (\$) Storage Fees Billed (\$) Reservoir Management Fees Billed (\$) Funded by the Refiners (provides for booster compression servi Cliffside Refiners, LP, by Agreement #GDA010003 (reimburses Net-Total (Funded by the Refiners for compression costs.) Enrichment Unit Charges (Charges Billed (\$)		Month Gross Volume 51,639 135,483 (83,844)	Net Helium 34,262 97,842 (63,580)	66.35% 72.22% Month \$594,724 \$0 Month \$0 \$0 \$0 Month	Helium FYTD 34,26 97,84 (63,56
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Private Company Helium Storage Contracts Contact Activity Crude Acquired (Mcf*) Crude Disposed (Mcf*) Net Balance (Mcf*) Salance of Stored Helium End Of Month (Mcf*) Volumes in Mcf at 14.65 psia & 60°F Revenue / Charges Helium Storage Contracts (Charges Billed (\$) Storage Fees Billed (\$) Reservoir Management Fees Billed (\$) Field Compressor Charges (Charges Billed (\$) Funded by the Refiners (provides for booster compression service) Cliffside Refiners, LP, by Agreement #GDA010003 (reimburses) Net-Total (Funded by the Refiners for compression costs.) Enrichment Unit Charges (Charges Billed (\$) Reservior Management Fees (RMF) Fotal operating costs Sub Total - Items provided by BLM		Month Gross Volume 51,639 135,483 (83,844)	Net Helium 34,262 97,842 (63,580)	66.35% 72.22% Month \$594,724 \$0 Month \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$30 \$0 \$30 \$40 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$5	Helium FYTD 34,26 97,84 (63,58 FY \$594,72 \$ FY \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
Private Company Helium Storage Contracts Contact Activity Crude Acquired (Mcf*) Crude Disposed (Mcf*) Net Balance (Mcf*) Balance of Stored Helium End Of Month (Mcf*) Volumes in Mcf at 14.65 psia & 60°F Revenue / Charges Helium Storage Contracts (Charges Billed (\$) Broage Fees Billed (\$) Reservoir Management Fees Billed (\$) Field Compressor Charges (Charges Billed (\$) Funded by the Refiners (provides for booster compression service Cliffside Refiners, LP, by Agreement #GDA010003 (reimburses Net-Total (Funded by the Refiners for compression costs.) Enrichment Unit Charges (Charges Billed (\$) Reservior Management Fees (RMF) Total operating costs Sub Total - Items provided by BLM		Month Gross Volume 51,639 135,483 (83,844)	Net Helium 34,262 97,842 (63,580)	66.35% 72.22% Month \$594,724 \$0 Month \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	Helium FYTD 34,26 97,84 (63,58 FY \$594,72 \$ FY \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
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Private Company Helium Storage Contracts Contact Activity Crude Acquired (Mcf*) Crude Disposed (Mcf*) Net Balance (Mcf*) Balance of Stored Helium End Of Month (Mcf*) 'Volumes in Mcf at 14.65 psia & 60°F Revenue / Charges Helium Storage Contracts (Charges Billed (\$) Storage Fees Billed (\$) Reservoir Management Fees Billed (\$) Field Compressor Charges (Charges Billed (\$) Funded by the Refiners (provides for booster compression servi Cliffside Refiners, LP, by Agreement #GDA010003 (reimburses Net-Total (Funded by the Refiners for compression costs.) Enrichment Unit Charges (Charges Billed (\$) Reservior Management Fees (RMF) Total operating costs Sub Total - Items provided by BLM Total - Cliffside Refiners, LP, GDA030001 Conservation Helium - Natural Gas - Liquid S	BLM for fuel, labor, su	Month Gross Volume 51,639 135,483 (83,844)	Net Helium 34,262 97,842 (63,580)	66.35% 72.22% Month \$594,724 \$0 Month \$0 \$0 \$0 \$0 \$0 Month \$0 (\$908,722) \$398,762 (\$509,960)	Helium FYTD 34,26 97,84 (63,56 FY \$594,72 \$ FY \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
Private Company Helium Storage Contracts Contact Activity Crude Acquired (Mcf*) Crude Disposed (Mcf*) Net Balance (Mcf*) Balance of Stored Helium End Of Month (Mcf*) Polumes in Mcf at 14.65 psia & 60°F Revenue / Charges Helium Storage Contracts (Charges Billed (\$) Storage Fees Billed (\$) Reservoir Management Fees Billed (\$) Field Compressor Charges (Charges Billed (\$) Funded by the Refiners (provides for booster compression servi Cliffside Refiners, LP, by Agreement #GDA010003 (reimburses Net-Total (Funded by the Refiners for compression costs.) Enrichment Unit Charges (Charges Billed (\$) Reservior Management Fees (RMF) Total operating costs Sub Total - Items provided by BLM Total - Cliffside Refiners, LP, GDA030001 Conservation Helium - Natural Gas - Liquid S Conservation Crude Helium Sales	BLM for fuel, labor, su	Month Gross Volume 51,639 135,483 (83,844)	Net Helium 34,262 97,842 (63,580)	66.35% 72.22% Month \$594,724 \$0 Month \$0 \$0 \$0 \$0 \$0 \$0 Month \$0 (\$908,722) \$398,762 (\$509,960) Month \$0	FY \$594,72 \$398,76 \$509,96
Private Company Helium Storage Contracts Contact Activity Crude Acquired (Mcf*) Crude Disposed (Mcf*) Net Balance (Mcf*) Balance of Stored Helium End Of Month (Mcf*) 'Volumes in Mcf at 14.65 psia & 60°F Revenue / Charges Helium Storage Contracts (Charges Billed (\$) Storage Fees Billed (\$) Reservoir Management Fees Billed (\$) Field Compressor Charges (Charges Billed (\$) Funded by the Refiners (provides for booster compression service Cliffside Refiners, LP, by Agreement #GDA010003 (reimburses Net-Total (Funded by the Refiners for compression costs.) Enrichment Unit Charges (Charges Billed (\$) Reservior Management Fees (RMF) Total operating costs Sub Total - Items provided by BLM Total - Cliffside Refiners, LP, GDA030001 Conservation Helium - Natural Gas - Liquid S Conservation Crude Helium Sales In Kind Sales	BLM for fuel, labor, su	Month Gross Volume 51,639 135,483 (83,844)	Net Helium 34,262 97,842 (63,580)	66.35% 72.22% Month \$594,724 \$0 Month \$0 \$0 \$0 \$0 \$0 \$0 (\$908,722) \$398,762 (\$509,960) Month \$0 \$0 \$0	FY \$594,72 \$398,76 \$509,96
Private Company Helium Storage Contracts Contact Activity Crude Acquired (Mcf*) Crude Disposed (Mcf*) Net Balance (Mcf*) Balance of Stored Helium End Of Month (Mcf*) Volumes in Mcf at 14.65 psia & 60°F Revenue / Charges Helium Storage Contracts (Charges Billed (\$) Storage Fees Billed (\$) Reservoir Management Fees Billed (\$) Field Compressor Charges (Charges Billed (\$) Funded by the Refiners (provides for booster compression service Cliffside Refiners, LP, by Agreement #GDA010003 (reimburses Net-Total (Funded by the Refiners for compression costs.) Enrichment Unit Charges (Charges Billed (\$) Reservior Management Fees (RMF) Fotal operating costs Sub Total - Items provided by BLM Fotal - Cliffside Refiners, LP, GDA030001 Conservation Helium - Natural Gas - Liquid S Conservation Crude Helium Sales In Kind Sales	BLM for fuel, labor, su	Month Gross Volume 51,639 135,483 (83,844)	Net Helium 34,262 97,842 (63,580)	66.35% 72.22% Month \$594,724 \$0 Month \$0 \$0 \$0 \$0 \$0 \$0 Month \$0 (\$908,722) \$398,762 (\$509,960) Month \$0	FY \$594,72 \$398,76 \$509,96
Private Company Helium Storage Contracts Contact Activity Crude Acquired (Mcf*) Crude Disposed (Mcf*) Net Balance (Mcf*) Salance of Stored Helium End Of Month (Mcf*) Volumes in Mcf at 14.65 psia & 60°F Revenue / Charges Helium Storage Contracts (Charges Billed (\$) Storage Fees Billed (\$) Reservoir Management Fees Billed (\$) Field Compressor Charges (Charges Billed (\$) Founded by the Refiners (provides for booster compression service Cliffside Refiners, LP, by Agreement #GDA010003 (reimburses Net-Total (Funded by the Refiners for compression costs.) Enrichment Unit Charges (Charges Billed (\$) Reservior Management Fees (RMF) Fotal operating costs Sub Total - Items provided by BLM Fotal - Cliffside Refiners, LP, GDA030001 Conservation Helium - Natural Gas - Liquid Sconservation Crude Helium Sales In Kind Sales Natural Gas & Liquid Sales	BLM for fuel, labor, su	Month Gross Volume 51,639 135,483 (83,844)	Net Helium 34,262 97,842 (63,580)	66.35% 72.22% Month \$594,724 \$0 Month \$0 \$0 \$0 \$0 \$0 \$0 (\$908,722) \$398,762 (\$509,960) Month \$0 \$0 \$0	FY \$594,77 \$398,77 \$595,04
Private Company Helium Storage Contracts Contact Activity Crude Acquired (Mcf*) Crude Disposed (Mcf*) Net Balance (Mcf*) Balance of Stored Helium End Of Month (Mcf*) Polumes in Mcf at 14.65 psia & 60°F Revenue / Charges Helium Storage Contracts (Charges Billed (\$) Storage Fees Billed (\$) Reservoir Management Fees Billed (\$) Field Compressor Charges (Charges Billed (\$) Funded by the Refiners (provides for booster compression servi Cliffside Refiners, LP, by Agreement #GDA010003 (reimburses Net-Total (Funded by the Refiners for compression costs.) Enrichment Unit Charges (Charges Billed (\$) Reservior Management Fees (RMF) Total operating costs Sub Total - Items provided by BLM Total - Cliffside Refiners, LP, GDA030001 Conservation Helium - Natural Gas - Liquid S Conservation Crude Helium Sales	BLM for fuel, labor, su	Month Gross Volume 51,639 135,483 (83,844)	Net Helium 34,262 97,842 (63,580)	66.35% 72.22% Month \$594,724 \$0 Month \$0 \$0 \$0 \$0 \$0 \$398,722 \$398,762 \$398,762 \$509,960 Month \$0 \$0 \$50 \$50 \$50 \$60	FY \$594,72 \$398,76 \$509,96

Table 2 - Bush Dome Reservoir Operations

October - 2016

TOTAL 446.029 226.678.675 72.563 42.383.840 111.398 55.861.979 234.320 114.914.256 23.778 11.617.011 3.970 BIVINS A-3 Oct-16 0 10.961,112 0 3,548,629 0 2,772,147 0 4,159,383 0 407,301 0 BIVINS A-6 Oct-16 34,735 11,638,997 16,541 6,900,274 8,667 2,860,973 8,390 1,658,205 880 164,523 256 BIVINS A-13 Oct-16 23,935 8,631,283 8,238 4,510,131 5,944 2,218,455 8,619 1,667,270 954 185,307 179	Cumulative 1,901,588 73,653 55,023 50,120 57,765 121,602 111,098 552,592 (380,537
TOTAL 446.029 226.678.675 72.563 42.383.840 111.398 55.861.979 234.320 114.914.256 23.778 11.617.011 3.970 BIVINS A-3 Oct-16 0 10,961,112 0 3,548,629 0 2,772,147 0 4,159,383 0 407,301 0 BIVINS A-6 Oct-16 34,735 11,638,997 16,541 6,900,274 8,667 2,860,973 8,390 1,658,205 880 164,523 256 BIVINS A-13 Oct-16 23,935 8,631,283 8,238 4,510,131 5,944 2,218,455 8,619 1,667,270 954 185,307 179	1,901,588 73,653 55,023 50,120 57,765 121,602 111,098 552,592 (380,537
BIVINS A-3 Oct-16 0 10,961,112 0 3,548,629 0 2,772,147 0 4,159,383 0 407,301 0 BIVINS A-6 Oct-16 34,735 11,638,997 16,541 6,900,274 8,667 2,860,973 8,390 1,658,205 880 164,523 256 BIVINS A-13 Oct-16 23,935 8,631,283 8,238 4,510,131 5,944 2,218,455 8,619 1,667,270 954 185,307 179	73,653 55,023 50,120 57,765 121,602 111,098 552,592 (380,537
BIVINS A-6 Oct-16 34,735 11,638,997 16,541 6,900,274 8,667 2,860,973 8,390 1,658,205 880 164,523 256 BIVINS A-13 Oct-16 23,935 8,631,283 8,238 4,510,131 5,944 2,218,455 8,619 1,667,270 954 185,307 179	55,023 50,120 57,765 121,602 111,098 552,592 (380,537
BIVINS A-13 Oct-16 23,935 8,631,283 8,238 4,510,131 5,944 2,218,455 8,619 1,667,270 954 185,307 179	50,120 57,765 121,602 111,098 552,592 (380,537
	57,765 121,602 111,098 552,592 (380,537
	121,602 111,098 552,592 (380,537
BIVINS A-14 Oct-16 28,506 9,716,910 8,997 5,549,335 7,011 2,462,754 11,067 1,486,037 1,181 161,019 250	111,098 552,592 (380,537
BIVINS A-4 Oct-16 30,675 13,637,874 3,540 2,408,021 7,402 3,304,341 17,580 7,090,997 1,831 712,914 322	552,592 (380,537
BUSH A-2 Oct-16 36,123 13,332,634 3,331 1,968,224 9,074 3,270,310 21,186 7,240,052 2,290 742,950 242	(380,537
Injection Oct-16 0 66,464,971 0 48,012,584 0 17,119,298 0 780,461 0 36 0	
inj Bivins A-3 Oct-16 0 (25,652,315) 0 (18,384,452) 0 (6,554,549) 0 (332,777) 0 0	(440 704
inj Bivins A-6 Oct-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 Oct-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 Oct-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 Oct-16 0 (2,527,801) 0 (1,848,815) 0 (601,353) 0 (42,016) 0 0	(35,617
inj Bush A-2 Oct-16 0 (867,658) 0 (625,258) 0 (215,406) 0 (13,980) 0 0	(13,015
Production Oct-16 0 1,254,876 0 924,742 0 270,231 0 48,129 0 3,199 0	8,575
BIVINS A-1 Oct-16 0 2,686,608 0 48,896 0 636,995 0 1,798,415 0 175,704 0	26,597
BIVINS A-2 Oct-16 17,987 14,069,081 603 1,882,910 4,207 3,444,988 11,792 7,841,590 1,209 782,078 176	117,515
BIVINS A-5 Oct-16 28,928 16,141,150 5,436 2,063,606 7,394 3,958,325 14,351 9,066,521 1,527 913,092 220	139,607
BIVINS A-7 Oct-16 16,456 11,883,654 4,841 2,807,379 4,297 2,993,194 6,508 5,441,121 703 555,229 107	86,731
BIVINS A-9 Oct-16 23,973 10,535,973 554 201,392 6,147 2,593,582 15,404 6,942,627 1,666 702,342 201	96,029
BIVINS A-11 Oct-16 18,688 6,523,405 549 141,379 4,754 1,623,395 11,919 4,259,316 1,286 437,858 181	61,457
BIVINS A-15 Oct-16 29,086 9,964,732 510 433,140 6,812 2,373,330 19,404 6,412,400 2,002 642,464 358	103,399
BIVINS B-1 Oct-16 29,187 8,181,458 671 303,382 7,396 1,984,199 19,698 5,273,167 1,278 537,446 143	83,263
BIVINS B-2 Oct-16 23,155 6,787,903 439 127,926 5,882 1,701,384 14,846 4,408,654 1,578 454,073 410	95,866
BUSH A-1 Oct-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 Oct-16 23,052 12,237,648 7,914 2,903,841 5,864 3,026,974 8,181 5,629,463 901 570,497 191	106,873
BUSH A-4 Oct-16 17,116 8,721,471 1,587 1,587,231 4,390 2,181,957 9,994 4,436,685 1,047 453,006 98	62,592
BUSH A-5 Oct-16 32,915 16,772,749 8,215 3,862,484 8,462 4,211,240 14,782 7,790,550 1,285 792,257 170	116,219
BUSH A-8 Oct-16 17,724 4,331,183 328 79,395 4,399 1,049,577 11,496 2,859,154 1,206 288,559 294	54,499
BUSH A-9 Oct-16 0 3,860,915 0 105,037 0 930,915 0 2,537,187 0 253,463 0	34,312
BUSH A-11 Oct-16 9,110 4,579,912 186 133,333 2,190 1,095,475 5,990 2,994,360 617 304,100 128	52,644
BUSH B-1 Oct-16 4,679 3,347,406 84 62,821 1,104 794,256 3,111 2,236,815 336 220,749 45	32,765
FUQUA A-1 Oct-16 0 2,954,098 0 53,854 0 702,798 0 1,975,175 0 193,573 0	28,699
FUQUA A-2 Oct-16 0 132,119 0 2,404 0 31,322 0 88,458 0 8,637 0	1,297
FUQUA A-3 Oct-16 0 9,303,912 0 577,005 0 2,277,687 0 5,790,357 0 583,701 0	75,162
TT Fuel Oct-16 624 0 0 0 26 0 509 0 88 0 0	0
field-wide pcts 16.27% 18.70% 24.98% 24.64% 52.53% 50.69% 5.33% 5.12% 0.89%	0.84%

est z-factor 0.980

Latest estimates of reserves and feed to HEU

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

As of EOM	Oct-16	Volumes in BCF				
Initial Gas In Pla	ace		330.040			
Produced 1924	to 1961		48.830			
Injected 1924 to	1961		0.450			
Remaining Gas	In Place 1961		281.660			
Left Behind Pipe	e, 1961		82.060	====>	1.500	BCF of contained helium
Remaining in Pl	ace, 1961		199.600			
Gas In Place 19	061		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 2	2002 through Dec 20	002	1.096		0.743	
Production 2003	3 - 15		90.147		23.308	
Injection 2003 -	15		(1.394)		(1.137)	
Produced to Da	te 2016		4.151		0.728	
Injected to Date	2016		(0.019)		(0.014)	
Amount of Raw	Gas Available to Cl	HEU	87.680	====>	10.369	total helium in reservoir
Estimated Botto	m Hole Pressure		322.911			

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

Table 3 - Gas Volumes & Inventory

Crude Helium Enrichment Unit Operations

Gross Withdrawal		Net Helium Withdrawal		Nitr	Nitrogen		Methane		Ethane plus		Other (CO2, Ar, H2)		
		Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative
Measured Feed	Oct-16	427,809	91,690,360	69,609	22,379,007	106,862	22,991,692	224,651	41,144,351	22,859	4,385,009	3,829	790,300
Calculated Feed	Oct-16	445,406	91,454,959	72,563	22,356,045	111,372	22,928,739	233,811	40,985,110	23,691	4,395,192	3,969	789,873
Feed to Box	Oct-16	442,086	90,881,553	72,563	22,356,224	111,372	22,928,821	233,811	40,985,156	23,691	4,395,193	649	216,160
Cheu Product	Oct-16	88,996	28,172,400	66,789	21,999,828	19,724	5,422,938	1,891	553,397	15	751	577	195,486
Residue	Oct-16	205,319	40,896,072	1	2,040	5,012	1,011,110	182,292	36,284,674	18,014	3,596,991	0	1,256
Cold Box Vent	Oct-16	56,367	15,396,023	48	89,255	51,820	13,636,689	4,488	1,608,817	0	118	11	61,144
Flare/Boot Strap	Oct-16	56,367	5,912,271	48	50,034	51,820	4,891,691	4,488	870,986	0	93,583	11	5,977
Fuel From Cheu	Oct-16	5,040	1,245,324	3	377	131	36,586	4,065	1,009,983	842	198,379	0	0
Shrinkage/Loss	Oct-16	2,154	447,011	0	0	0	0	0	0	2,154	447,011	0	0
Unaccounted*	Oct-16	39,847	3,036,702	3,974	167,048	21,730	2,236,327	14,097	628,350	(0)	1,371	46	3,606

*Before October 2004, the values are estimated

<u>Storage Operations</u> Inventory (contained helium)

Total Helium in Storage

Helium in native gas

	Government	Private
Beginning inventory	5,360,727	2,745,597
net acceptances +	0	0
redeliveries	0	(63,580)
In Kind Transfers	0	0
Conservation Crude Sales	(825,000)	825,000
Gain/loss	(1,966)	
Ending Inventory	4,533,761	3,507,017
Total Helium in Reservoir	10,369,308	

Crude Helium Pipeline

Crude Hellum Pipeline			
_	Gross	Net Helium	Percent
Beginning inventory	33,777	24,682	73.07%
Measured to Pipeline (Private Plants)	51,639	34,464	66.74%
Measured from Pipeline (Private Plant	135,483	97,842	72.22%
HEU Production	88,996	66,789	75.05%
Injection	0	0	00.00%
Production	0	0	
Ending Inventory	36,235	26,127	72.11%
Gain/Loss	(2,695)	(1,966)	

Tuck Trigg Reservoir Operations

	-		Since Field
Native Gas (Gross)	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

8,040,778 2,328,530 October - 2016

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

Table 4 - In Kind Helium Sales

October - 2016

	NASA*	Navy*	Army*	Air Force*	DOE*	Other Fed*	Subtotal*	In Kind+	Charges	Billed (\$)**
Al-o O d- W	0	INIO00 0454		in Ki	nd Heliu	11U				<i>a</i>
AirGas South West, Month FYTD	Contract no	D. INC98-0101								(billed quarterly)
AirGas North Centra	al, Contract	no. INC98-010	02							
Month										
FYTD	in Contract	INCOO 04	00							
AirGas Intermounta Month FYTD	iin, Contract	no. INC98-01	03							
Air Liquide Helium	America, Inc	., Contract no	o. INC98-0	0104						
Month										
FYTD	2 1 1	111000 0405								
Air Products, L.P., (Contract no.	INC98-0105								
FYTD										
Linde Gas North An	nerica, LLC,	Contract no.	INC98-01	06						
Month FYTD										
Corp Brothers, Inc.,	, Contract no	o. INC98-0107	•							
Month FYTD										
FIBA Technologies,	Inc. Contra	ect no. INC98-	-0108							
Month	, 1110., 0011110	101 110. 111030	0100							
FYTD										
General Air Service	& Supply C	o., Contract n	o. INC98-	0109						
Month FYTD										
Praxair, Inc., Contra	act no. INC98	B-0112								
Month	201 110. 111001	0112								
FYTD										
United States Weldi	ing, Inc., Co	ntract no. INC	98-0113							
Month FYTD										
Matheson Tri-Gas, I	nc Contrac	t no INC98-0	114							
Month	ilio., Oolitiat	, 110. 111030-0	,,,,,							
FYTD										
GT & S, Contract no	o. INC00-011	5								
Month FYTD										
Global Gases Amer	ica, Contrac	t no. INC13-0	116							
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	58,863	4	0	0	0	48,752	107,619	105,959		\$8,942,940
Cumulative	1,886,021	108,677	450	271,584	421,753	792,666	3,481,151	3,427,244		\$198,871,411
In Kind Transfo	ers						Month	FYTD	CYTD	Cumulative
Transferred							0	0	97,171	3,385,478
Volume outstanding							41,841			

^{*} Volumes in Mcf at 14.7 psia & 70°F

⁺ Volumes in Mcf at 14.65 psia & 60°F

Table 5 - Conservation Crude Sales/Reserve Sell-down

October - 2016

Helium & Natural Gas Sales

	Award Volume*	Outstanding*	Sales*	Charges I	Billed (\$)**							
	Conservatio		(billed quarterly)									
	Air Liquide Helium America, Inc.											
Month	0	0	0	\$0								
FYTD	0	0	0	\$0								
Cumulative	335,217		335,217	\$25,454,815								
Air Products, L.P.												
Month	0	(419,309)	419,309	\$44,881,063								
FYTD	0	0	419,309	\$44,881,063								
Cumulative	8,448,745		8,448,745	\$610,716,090								
Linde Gas North America, LLC												
Month	0	(140,334)	140,334	\$15,015,738								
FYTD	0	0	140,334	\$15,015,738								
Cumulative	6,170,987		6,170,987	\$419,707,591								
Keyes Helium Co., LLC												
Month	0	(21,844)	21,844	\$2,337,308								
FYTD	0	0	21,844	\$2,337,308								
Cumulative	998,957		998,957	\$68,353,106								
Matheson Tri-Gas, Inc.												
Month	0	(46,700)	46,700	\$4,996,900								
FYTD	0	0	46,700	\$4,996,900								
Cumulative	328,700		328,700	\$34,316,400								
Praxair, Inc.												
Month	0	(183,513)	183,513	\$19,635,891								
FYTD	0	0	183,513	\$19,635,891								
Cumulative	5,403,189		5,403,189	\$404,125,671								
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	(13,300)	13,300	\$1,423,100								
FYTD	0	0	13,300	\$1,423,100								
Cumulative	36,267		36,267	\$3,535,665								
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	0	\$0								
Cumulative	15,000		15,000	\$1,575,000								
Total month	0	(825,000)	825,000		0							
Total FYTD	0	0	825,000		\$0							
Total CYTD	1,000,000		1,000,000		\$0							
Cumulative	21,952,729		21,952,729		\$1,580,307,703							
Conservation Crude Transfers		Month	FYTD	CYTD	Cumulative							
Transferred		825,000	825,000	1,000,000	21,937,729							
Volume outstanding		15,000	2_3,000	.,222,000	_ 1,111,120							
Totalio Catalanang		10,000										

^{*} Volumes in Mcf at 14.65 psia & 60°F

Natural Gas/Liquid Sales

	Natural Gas/Liquid Sales									
	Natural Gas (Mcf)***	NGLs (gal)	Decatherms	Avg Btu Value	Charges E	Billed (\$)**				
El Paso Natural Gas		Provides Measured F	irm/Interruptible Tran	sportation Services		(billed monthly)				
Month	223,755		205,320	918	(\$27,997)					
FYTD	223,755		205,320	918	(\$27,997)					
Cumulative	40,306,303		44,159,860	1,096	(\$4,612,376)					
Minerals Manageme	ent Service	No Longer Provides	Natural Gas Marketin	g Services						
Cumulative					(\$179,913)					
<u>Tenaska</u>		Purchaser -	Natural Gas		\$\$/Unit					
Month			219,300	\$2.631455	\$577,078					
FYTD			219,300	\$2.631455	\$577,078					
Cumulative			43,844,405	\$4.569290	\$199,511,254					
<u>Sandstone</u>		Purchaser - Natural (Gas Liquids							
Month		70,958	7,678	\$5.986588	\$45,965					
FYTD		70,958	7,678	\$5.986588	\$45,965					
Cumulative		12,151,352	1,293,667	\$11.583397	\$14,985,059					
	Natural Gas (Mcf)***	NGLs (gal)	Purchased (Dth's)	\$\$ Per Unit	(\$\$/Dth)	Total (\$\$)				
Total month	223,755	70,958	226,978	\$2.621602		\$595,046				
Total FYTD	223,755	70,958	226,978	\$2.621602		\$595,046				
Total CYTD	1,964,891	554,307	2,141,617	\$2.175125		\$4,658,285				
Cumulative	40,306,303	12,151,352	45,138,072	\$4.664146		\$209,704,024				

^{***} Volumes in Mcf at 14.73 psia & 60°F

All Volumes in Mcf at 14.7 psia & 70°F

Revenue Collected From Federal Leaseholds	Month*	FYTD*
Fee Sales & Royalties	\$711,168	\$711,168
Natural Gas Royalties (1)	\$0	\$0
Natural Gas Rentals	\$0	\$0
Other	\$28,233	<u>\$28,233</u>
Revenue Collected from Federal Lease Holds	\$739,400	\$739,400

^{*}Totals do not sum

Helium Analysis and Evaulation	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)	0	0

U. S. Helium Production

Domestic	FY Volume	CY Volume
2012 Helium Sold	4,725,187	4,623,130
2013 Helium Sold	4,279,765	4,166,708
2014 Helium Sold	3,815,746	3,463,698
2015 Helium Sold	3,282,185	3,466,014
2016 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
US Helium Imports	491,006	565,023

- (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 All Volumes in Mcf at 14.65 psia & 60°F

October - 2016

All Volumes	All Volumes in Mcf at 14.65 psia & 60°F										
	Metered Gas		Transferre		Stored Helium	Charges	Billed				
	Gross Gas		Helium	EVED	Helium	10		Helium			\$)**
		Month		FYTD	CYTD	Cumulative	Month	Cumulative	EOM	Month	FYTD
Total All Contra		00.00/	0.4.000	0.4.000		04 005 000					
Crude Acquired	51,639	66.3%	34,262	34,262	390,822	31,935,033	1,284,402	56,514,331		\$504.504	o
Crude Disposed	135,483	72.2%	97,842	97,842	1,051,215	51,630,092	459,402	30,723,512		\$594,724	Storage Fees
Grade-A Rdlvrd	0		0	0	0	1,478,718	205.000	05 700 040	0.507.047	\$0	RMF Fees
Net/Balance	(83,844)	AINIATED)	(63,580)	(63,580)	(660,393)	(21,173,777)	825,000	25,790,819	3,507,017	\$594,723.93	\$594,724
Total Prior Cor	itracts (TERN	IINAIED)		0	0	17 406 120	_	10 106 000			
Crude Acquired				0	0	17,406,129 11,830,863	0	18,196,898 19,148,768			
Crude Disposed				0	0	1,478,718	0	19,140,700			
Grade-A Rdlvrd Number of trailers				0	0	9,834			0		
Linde Gas Nort		IC Contra	oct no. 32/1		0	9,034			0		
Crude Acquired	ili Allielica, L	.LC, Contra	ICL 110. 324	9							
Crude Disposed Net/Balance											
Praxair, Inc., C	ontract no 3	251									
Crude Acquired	ontract no. 3	231									
Crude Disposed											
Net/Balance											
Air Products, L	P Contract	no 3256									
Crude Acquired	, Oontract	110. 5250									
Crude Disposed											
Net/Balance											
IACX Energy, C	Contract no. 3	3297									
Crude Acquired	Joninaot no. C	,,									
Crude Disposed											
Net/Balance											
Pioneer Natura	I Resources	USA. Inc. C	Contract no	o. 3286							
Crude Acquired		,,									
Crude Disposed											
Net/Balance											
Keyes Helium (Co., LLC, Co	ntract no. 3	287								
Crude Acquired											
Crude Disposed											
Net/Balance											
Air Liquide Hel	lium America	, Inc., Cont	ract no. 32	284							
Crude Acquired											
Crude Disposed											
Net/Balance											
Matheson Tri-G	Sas, Inc., Cor	ntract no. 3	288								
Crude Acquired											
Crude Disposed											
Net/Balance											
Airgas Mercha	nt Gases, Co	ntract no. 3	3290								
Crude Acquired											
Crude Disposed											
Net/Balance	Amorias Co-	troot no 21	202								
Global Gases A Crude Acquired	anierica, con	iliact no. 32	233								
Crude Acquired Crude Disposed											
Net/Balance											
Linn Operating	. Inc Contra	act no. 3296	3								
Crude Acquired	,,,	0200									
Crude Disposed											
Net/Balance											

Government He	elium				
Remaining Crude Acquired beginning of the month					
Crude Disposed:	In Kind Sales transferred for the month	0			
	Conservation Crude Sales/Reserve Sell Down transferred (mont	(825,000)			
	Gains and Loses for the month	<u>(1,966)</u>			
Net/Balance of Pu	rchased Helium Remaining for Sale	4,533,761			

Table 8 - Compression & CHEU (Charges & Operations)

October - 2016

Field/CHEU Compressor Operations		Month	FYTD	Cumulative
Spot gas fuel price ∗	\$ per/MMBTU	\$2.63	\$2.63	\$4.87
Fuel used * (now includes field compression well head)	total MMBTU	6,346	6,346	1,717,269
Field Compression Fuel Cost *	\$dollars	\$0	\$0	\$658,447
CHEU Compression Fuel Cost *	\$dollars	\$8,734	\$8,734	\$4,304,738
CHEU Process Fuel Cost *	\$dollars	\$7,958	\$7,958	\$2,881,632
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	500	500	102,766
#2 Compressor run time *	hours	253	253	65,716
#3 Compressor run time *	hours	201	201	59,525

^{*} Field/CHEU Compressor Operations based on Oct 16 activity

Crude Helium Enrichment Unit (CHEL	Month			Cumulative	
CHEU Runtime	Runtime Hrs	² ercen	Runtime Hrs	Percent	Runtime Hrs
Processing feed gas	573	77.1%	573	77.1%	113,142
Producing residue gas	528	70.9%	528	70.9%	110,334
Producing helium product	477	64.1%	477	64.1%	106,822
Producing natural gas liquids	510	68.6%	510	68.6%	105,819

	Charges Billed (\$)*		
CHEU Charges		FYTD	Cummulative
Reservior Management Fees (RMF)	\$0	\$0	\$31,831,123
Total operating costs	(\$908,722)	(\$908,722)	(\$137,738,880)
Labor	\$161,237	\$161,237	\$14,499,853
Compressor fuel cost Sep 16	\$8,734	\$8,734	\$4,315,929
HEU fuel cost Sep 16	\$8,876	\$8,876	\$2,888,343
Electrical power cost Sep 16	\$136,334	\$136,334	\$20,587,314
Other	\$83,582	<u>\$83,582</u>	<u>\$13,142,841</u>
Sub Total - Items provided by BLM	\$398,762	\$398,762	\$58,643,635
Total - Cliffside Refiners, LP, GDA030001	(\$509,960)	(\$509,960)	(\$79,095,245)

*Rounded to nearest dollar

CHEU Utility Usage	Month	FYTD	Cumulative
Cheu Fuel Gas (Mcf) usage Oct 16	2,766	2,766	542,405
Cheu Pure Water Usage (gallons) Oct 16	679	679	295,127
Electricity Metered (Kwh) consumed Sep 16	2.574.674	2.574.674	122.691.892