

Bureau of Land Management

Amarillo Field Office

Helium Operations



Statistical Report for February - 2015



Distribution:

Fluid Minerals Group Manager, Washington Office
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Amarillo, Texas

Compiled by: David V. Reeves

Issued: January 14, 2016

**** Revised ****

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

Approved for Distribution: *David V. Reeves*
NMSO Accountant

Date: *January 14, 2016*

Table 1 - Summary of Helium Operations

February - 2015

Helium Enrichment Unit Operations

Gas Processed	Month			Gross FYTD	Net FYTD
	Gross Volume	Net Helium	Average Percent		
Measured Plant Feed (Mcf*)	392,612	68,815	17.53%	2,245,540	399,310
Helium Product (Mcf*)	85,941	64,813	75.41%	507,734	380,208
Residue Natural Gas (Mcf*)	199,693	0	00.00%	1,140,816	0

* Volumes in Mcf at 14.65 psia & 60°F

Natural Gas & Liquids Produced

Gas Processed	Month	FYTD
Natural Gas Sales (Mcf****)	196,926	1,128,393
NGL Sales (gallons)	74,225	408,819

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

Bush Dome Reservoir Operations

Conservation gases from all sources	Month			Gross FYTD	Net FYTD
	Gross Volume	Net Helium	Average Percent		
Total Withdrawn (Mcf*)	396,695	69,524	17.53%	2,249,438	396,499
Crude Injection (Mcf*)	1,967	1,481	75.27%	51,734	38,388
Crude Production (Mcf*)	0	0	00.00%	0	0

* 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	0	0	20,051,729
Conservation Crude Sale Volume Transferred (Mcf*)	0	0	1,061,902	0	20,051,729
Conservation Helium in Storage (EOM) (Mcf*)		6,656,669			

* Volumes in Mcf at 14.65 psia & 60°F

In Kind Helium

	Month	FYTD	CYTD	Cumulative
Sale Volumes Transferred (Mcf*)	380	94,559	30,206	3,193,680
Sale Volumes Outstanding (Mcf*)	2,881			

* Volumes in Mcf at 14.65 psia & 60°F

Private Company Helium Storage Contracts

Contact Activity	Month			Annual Helium FYTD
	Gross Volume	Net Helium	Average Percent	
Crude Acquired (Mcf*)	41,404	27,924	67.44%	143,004
Crude Disposed (Mcf*)	126,734	91,794	72.43%	481,121
Net Balance (Mcf*)	(85,330)	(63,870)		(338,117)
Balance of Stored Helium End Of Month (Mcf*)		2,644,604		

* Volumes in Mcf at 14.65 psia & 60°F

Revenue / Charges

Helium Storage Contracts (Charges Billed (\$))	Month	FYTD
Storage Fees Billed (\$)	\$351,603	\$1,384,469
Reservoir Management Fees Billed (\$)	\$210,947	\$890,354

Field Compressor Charges (Charges Billed (\$))

	Month	FYTD
Funded by the Refiners (provides for booster compression services)	(\$56,477)	(\$282,386)
Cliffside Refiners, LP, by Agreement #GDA010003 (reimburses BLM for fuel, labor, supplies, etc.)	\$13,232	\$66,159
Net-Total (Funded by the Refiners for compression costs.)	(\$43,245)	(\$216,227)

Enrichment Unit Charges (Charges Billed (\$))

	Month	FYTD
Reservoir Management Fees (RMF)	\$210,947	\$890,354
Total operating costs	(\$783,945)	(\$3,966,761)
Sub Total - Items provided by BLM	\$289,039	\$1,492,232
Total - Cliffside Refiners, LP, GDA030001	(\$494,906)	(\$2,474,529)

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

	Month	FYTD
Conservation Crude Helium Sales	\$0	\$0
In Kind Sales	\$0	\$2,113,539
Natural Gas & Liquid Sales	\$551,316	\$4,060,101

Helium Resources Evaluation

	Month	FYTD
Revenue Collected from Federal Lease Holds	\$46,471	\$5,649,634
Helium Sample Collection Report for month	Submitted - 0	Received - 0
		Analyzed - 13

*Rounded to nearest dollar

Table 2 - Bush Dome Reservoir Operations

February - 2015

		Gross Withdrawal		Net Helium Withdrawal		Nitrogen		Methane		Ethane plus		Other (CO2, Ar, H2)	
		Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative
TOTAL		396,695	218,567,506	69,524	40,977,483	97,931	53,836,974	200,551	110,751,496	24,219	11,175,209	4,470	1,826,342
BIVINS A-3	Feb-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	Feb-15	11,102	11,102,168	7,499	6,610,009	2,494	2,728,037	809	1,559,254	169	153,960	131	50,910
BIVINS A-13	Feb-15	28,998	8,114,090	10,056	4,331,464	7,269	2,088,405	10,132	1,484,068	1,335	164,002	207	46,151
BIVINS A-14	Feb-15	32,121	9,037,698	10,834	5,331,883	7,974	2,293,086	11,396	1,228,820	1,521	132,212	397	51,697
BIVINS A-4	Feb-15	29,624	13,037,398	3,621	2,337,675	6,999	3,159,486	16,415	6,747,958	2,286	676,968	303	115,312
BUSH A-2	Feb-15	38,347	12,607,810	4,317	1,896,565	9,609	3,088,318	21,728	6,820,285	2,428	696,515	265	106,126
Injection	Feb-15	1,967	66,357,138	1,481	47,932,709	430	17,094,397	43	778,112	0	32	13	551,888
inj Bivins A-3	Feb-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	Feb-15	(1,967)	(24,295,089)	(1,481)	(17,583,076)	(431)	(6,459,230)	(43)	(140,620)	(0)	(70)	(13)	(112,092)
inj Bivins A-13	Feb-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	Feb-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	Feb-15	0	(2,527,801)	0	(1,848,815)	0	(601,353)	0	(42,016)	0	0	0	(35,617)
inj Bush A-2	Feb-15	0	(867,658)	0	(625,258)	0	(215,406)	0	(13,980)	0	0	0	(13,015)
Production	Feb-15	0	1,217,868	0	897,578	0	261,663	0	47,122	0	3,172	0	8,333
BIVINS A-1	Feb-15	0	2,686,608	0	48,896	0	636,995	0	1,798,415	0	175,704	0	26,597
BIVINS A-2	Feb-15	17,430	13,775,239	619	1,872,858	4,053	3,376,403	11,346	7,649,546	1,224	761,887	188	114,545
BIVINS A-5	Feb-15	20,608	15,764,796	3,730	1,993,523	5,246	3,862,216	10,345	8,879,499	1,127	892,849	160	136,710
BIVINS A-7	Feb-15	20,468	11,615,891	6,249	2,725,294	5,310	2,923,346	7,876	5,338,428	878	543,862	155	84,961
BIVINS A-9	Feb-15	19,438	10,111,390	420	191,817	5,027	2,484,247	12,516	6,669,605	1,316	673,195	159	92,526
BIVINS A-11	Feb-15	0	6,252,870	0	133,338	0	1,554,254	0	4,086,857	0	419,536	0	58,885
BIVINS A-15	Feb-15	28,711	9,406,659	502	423,382	6,774	2,242,073	19,137	6,040,268	1,953	604,284	345	96,652
BIVINS B-1	Feb-15	26,863	7,630,801	574	290,942	6,022	1,848,008	16,056	4,910,595	3,279	503,486	932	77,770
BIVINS B-2	Feb-15	23,851	6,341,518	454	119,435	6,094	1,587,608	15,290	4,122,566	1,601	423,903	413	88,005
BUSH A-1	Feb-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	Feb-15	24,410	11,785,964	8,225	2,750,169	6,207	2,911,989	8,802	5,467,993	973	552,679	203	103,134
BUSH A-4	Feb-15	16,834	8,431,751	1,891	1,558,474	4,300	2,107,763	9,516	4,269,504	1,030	435,078	96	60,932
BUSH A-5	Feb-15	36,007	16,118,310	10,106	3,686,598	9,192	4,043,619	14,853	7,512,696	1,644	762,962	212	112,436
BUSH A-8	Feb-15	11,621	4,062,178	216	74,395	2,897	982,672	7,541	2,684,775	780	270,214	186	50,122
BUSH A-9	Feb-15	0	3,860,915	0	105,037	0	930,915	0	2,537,187	0	253,463	0	34,312
BUSH A-11	Feb-15	7,190	4,456,562	155	130,779	1,733	1,065,834	4,754	2,913,283	457	295,733	92	50,932
BUSH B-1	Feb-15	3,068	3,271,170	56	61,424	731	776,170	2,036	2,186,213	216	215,339	29	32,024
FUQUA A-1	Feb-15	0	2,954,098	0	53,854	0	702,798	0	1,975,175	0	193,573	0	28,699
FUQUA A-2	Feb-15	0	132,119	0	2,404	0	31,322	0	88,458	0	8,637	0	1,297
FUQUA A-3	Feb-15	6	9,303,905	0	577,005	2	2,277,686	4	5,790,355	0	583,701	0	75,158
TT Fuel	Feb-15	0	0	0	0	0	0	0	0	0	0	0	0
field-wide pct's				17.53%	18.75%	24.69%	24.63%	50.56%	50.67%	6.11%	5.11%	1.13%	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 Feb-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	0.837	0.156
Injected to Date 2015	(0.006)	(0.004)
Amount of Raw Gas Available to CHEU	95.683	=====> 11.696 total helium in reservoir
Estimated Bottom Hole Pressure	352.354	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

February - 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	Feb-15	392,612	83,739,958	68,815	21,000,366	97,327	21,008,423	199,579	37,063,624	22,818	3,952,280	4,074	715,264
Calculated Feed	Feb-15	396,695	83,365,940	69,524	20,955,066	97,931	20,908,638	200,551	36,832,820	24,219	3,954,604	4,470	714,812
Feed to Box	Feb-15	392,853	82,854,991	69,524	20,955,244	97,931	20,908,720	200,551	36,832,866	24,219	3,954,609	628	203,551
Cheu Product	Feb-15	85,941	26,420,380	64,813	20,695,103	18,731	5,025,969	1,853	514,869	1	521	545	183,918
Residue	Feb-15	199,693	37,135,489	0	1,639	4,351	918,373	176,836	32,952,379	18,507	3,261,856	0	1,243
Cold Box Vent	Feb-15	71,308	14,165,667	47	87,806	61,131	12,565,468	10,119	1,451,370	0	117	12	60,905
Flare/Boot Strap	Feb-15	71,308	4,681,916	47	48,585	61,131	3,820,470	10,119	713,539	0	93,582	12	5,739
Fuel From Cheu	Feb-15	7,497	1,130,277	4	320	194	33,606	6,046	917,197	1,253	179,154	0	0
Shrinkage/Loss	Feb-15	4,459	393,371	0	0	0	0	0	0	4,459	393,371	0	0
Unaccounted*	Feb-15	23,939	2,450,839	4,646	105,492	13,524	1,940,856	5,698	400,318	(0)	1,102	71	3,071

*Before October 2004, the values are estimated

Storage Operations

Inventory (contained helium)

	Government	Private
Beginning inventory	6,657,398	2,708,094
net acceptances + redeliveries	0	0
	0	(63,870)
In Kind Transfers	(380)	380
Conservation Crude Sales	0	0
Gain/loss	(349)	
Ending Inventory	6,656,669	2,644,604
Total Helium in Reservoir	11,695,790	
Total Helium in Storage	9,301,273	
Helium in native gas	2,394,517	

Crude Helium Pipeline

	Gross	Net Helium	Percent
Beginning inventory	44,759	32,679	73.01%
Measured to Pipeline (Private Plants)	41,404	27,924	67.44%
Measured from Pipeline (Private Plant:	126,734	91,794	72.43%
HEU Production	85,941	64,813	75.41%
Injection	1,967	1,481	75.27%
Production	0	0	
Ending Inventory	43,775	31,792	72.63%
Gain/Loss	372	(349)	

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

February - 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	14,246	1	0	0	0	16,863	31,110	30,631	\$2,113,539	
Total CYTD	0	0	0	0	0	0	0	0	\$0	
Cumulative	1,780,687	108,674	450	271,584	421,753	663,630	3,246,778	3,196,486	\$180,442,748	
In Kind Transfers							Month	FYTD	CYTD	Cumulative
Transferred							380	94,559	30,206	3,193,680
Volume outstanding							2,881			

* 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

February - 2015

Helium & Natural Gas Sales

	Award Volume*	Outstanding*	Sales*	Charges Billed (\$)** (billed quarterly)	
Conservation Helium					
<u>Air Liquide Helium America, Inc.</u>					
Month	0	0	0	\$0	
FYTD	0	0	0	\$0	
Cumulative	285,217		285,217	\$20,224,815	
<u>Air Products, L.P.</u>					
Month	0	0	0	\$0	
FYTD	0	0	0	\$0	
Cumulative	7,710,561		7,710,561	\$532,797,027	
<u>Linde Gas North America, LLC</u>					
Month	0	0	0	\$0	
FYTD	0	0	0	\$0	
Cumulative	5,890,632		5,890,632	\$390,129,669	
<u>Keyes Helium Co., LLC</u>					
Month	0	0	0	\$0	
FYTD	0	0	0	\$0	
Cumulative	956,113		956,113	\$63,831,798	
<u>Matheson Tri-Gas, Inc.</u>					
Month	0	0	0	\$0	
FYTD	0	0	0	\$0	
Cumulative	24,000		24,000	\$1,917,500	
<u>Praxair, Inc.</u>					
Month	0	0	0	\$0	
FYTD	0	0	0	\$0	
Cumulative	4,946,572		4,946,572	\$356,081,964	
<u>Linde Gas, LLC discontinued 10 2008</u>					
Month	0	0	0	\$0	
FYTD	0	0	0	\$0	
Cumulative	200,000		200,000	\$11,035,000	
<u>Global Gases America</u>					
Month	0	0	0	\$0	
FYTD	0	0	0	\$0	
Cumulative	22,967		22,967	\$2,112,565	
<u>Airgas Merchant Gases</u>					
Month	0	0	0	\$0	
FYTD	0	0	0	\$0	
Cumulative	15,667		15,667	\$1,488,365	
Total month	0	0	0	\$0	
Total FYTD	0	0	0	\$0	
Total CYTD	0		0	\$0	
Cumulative	20,051,729		20,051,729	\$1,379,618,703	
Conservation Crude Transfers					
		Month	FYTD	CYTD	Cumulative
Transferred		0	1,061,902	0	20,051,729
Volume outstanding		0			

* Volumes in Mcf at 14.65 psia & 60°F

Natural Gas/Liquid Sales

	Natural Gas (Mcf)***	NGLs (gal)	Decatherms	Avg Btu Value	Charges Billed (\$)** (billed monthly)
<u>El Paso Natural Gas</u>					
		Provides Measured Firm/Interruptible Transportation Services			
Month	196,926	---	217,011	1,102	(\$27,997)
FYTD	1,128,393	---	1,238,291	1,097	(\$139,985)
Cumulative	36,523,574	---	40,096,580	1,098	(\$4,052,074)
<u>Minerals Management Service</u>					
		No Longer Provides Natural Gas Marketing Services			
Cumulative	---	---	---	---	(\$179,913)
<u>Tenaska</u>					
		Purchaser - Natural Gas		\$/Unit	
Month	---	---	217,500	\$2.465368	\$536,218
FYTD	---	---	1,235,700	\$3.159242	\$3,903,876
Cumulative	---	---	39,778,063	\$4.800519	\$190,128,777
<u>Sandstone</u>					
		Purchaser - Natural Gas Liquids			
Month	---	74,225	7,921	\$5.440699	\$43,096
FYTD	---	408,819	41,984	\$7.055308	\$296,210
Cumulative	---	11,009,047	1,172,656	\$12.274345	\$14,393,584
	Natural Gas (Mcf)***	NGLs (gal)	Purchased (Dth's)	\$/Per Unit (\$/Dth)	Total (\$)
Total month	196,926	74,225	225,421	\$2.445718	\$551,316
Total FYTD	1,128,393	408,819	1,277,684	\$3.177703	\$4,060,101
Total CYTD	400,274	148,121	449,511	\$2.528863	\$1,136,752
Cumulative	36,523,574	11,009,047	40,950,719	\$4.911194	\$200,290,374

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

**Rounded to nearest dollar

Table 6 - Helium Resources Evaluation

February - 2015

All Volumes in Mcf at 14.7 psia & 70°F

Revenue Collected From Federal Leaseholds	Month*	FYTD*
Fee Sales & Royalties	\$44,809	\$5,619,332
Natural Gas Royalties (1)	\$0	\$0
Natural Gas Rentals	\$0	\$0
Other	\$30,302	\$131,152
Revenue Collected from Federal Lease Holds	\$46,471	\$5,649,634

*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	8
Total Number of Samples Analyzed For Resources Division	0	6
Total Number of Other Samples Analyzed (2)	13	46

U. S. Helium Production

<i>Domestic</i>	FY Volume	CY Volume
2010 Helium Sold	4,558,202	4,691,987
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
Estimated Helium Resources as of 12/31/2006 (Mcf)		732,000,000

	FY-2014	FY-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

February - 2015

All Volumes in Mcf at 14.65 psia & 60°F

	Metered Gas						Transferred Gas Helium		Stored Helium EOM	Charges Billed (\$)**	
	Gross Gas	Helium %	Helium		Cumulative	Month	Cumulative	Month		Month	FYTD
			FYTD	CYTD							
Total All Contracts*											
Crude Acquired	41,404	67.4%	27,924	143,004	53,178	31,232,778	19,848	54,132,218			
Crude Disposed	126,734	72.4%	91,794	481,121	195,667	49,712,452	19,468	31,529,222		\$351,603	Storage Fees
Grade-A Rdlvrd	0		0	0	0	1,478,718				<u>\$210,947</u>	RMF Fees
Net/Balance	(85,330)		(63,870)	(338,117)	(142,489)	(19,958,392)	380	22,602,996	2,644,604	\$562,550	\$2,274,824
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. 1995-3249											
Crude Acquired											
Crude Disposed											
Net/Balance											
Praxair, Inc., Contract no. 1995-3251											
Crude Acquired											
Crude Disposed											
Net/Balance											
Air Products, L.P., Contract no. 1995-3256											
Crude Acquired											
Crude Disposed											
Net/Balance											
, Contract no.											
Crude Acquired											
Crude Disposed											
Net/Balance											
ExxonMobil Gas Marketing Co., Contract no. 1995-3280											
Crude Acquired											
Crude Disposed											
Net/Balance											
Pioneer Natural Resources USA, Inc, Contract no. 1995-3286											
Crude Acquired											
Crude Disposed											
Net/Balance											
Keyes Helium Co., LLC, Contract no. 1995-3287											
Crude Acquired											
Crude Disposed											
Net/Balance											
ALIG, LLC, Contract no. 1998-3283											
Crude Acquired											
Crude Disposed											
Net/Balance											
Linde Gas, LLC discontinued 10 2008, Contract no. 2001-3282											
Crude Acquired											
Crude Disposed											
Net/Balance											
Mitsui & Co. (U.S.A.), Inc., Contract no. 2002-3289											
Crude Acquired											
Crude Disposed											
Net/Balance											
Air Liquide Helium America, Inc., Contract no. 2003-3284											
Crude Acquired											
Crude Disposed											
Net/Balance											
Matheson Tri-Gas, Inc., Contract no. 2007-3288											
Crude Acquired											
Crude Disposed											
Net/Balance											
Airgas Merchant Gases, Contract no. 2009-3290											
Crude Acquired											
Crude Disposed											
Net/Balance											
Global Gases America, Contract no. 2013-3293											
Crude Acquired											
Crude Disposed											
Net/Balance											
Linn Operating, Inc., Contract no. 2015-3296											
Crude Acquired											
Crude Disposed											
Net/Balance											

Government Helium	
Remaining Crude Acquired beginning of the month	6,657,398
Crude Disposed: In Kind Sales transferred for the month	(380)
Conservation Crude Sales/Reserve Sell Down transferred (mont	0
Gains and Losses for the month	(349)
Net/Balance of Purchased Helium Remaining for Sale	6,656,669

*Includes In Kind and Conservation Crude transfers from Government storage

**Rounded to nearest dollar

Table 8 - Compression & CHEU (Charges & Operations)

February - 2015

Field/CHEU Compressor Operations

		Month	FYTD	Cumulative
Spot gas fuel price *	\$ per/MMBTU	\$2.47	\$3.21	\$5.08
Fuel used * (now includes field compression well head)	total MMBTU	8,666	46,327	1,574,384
Field Compression Fuel Cost *	\$dollars	\$0	\$0	\$654,398
CHEU Compression Fuel Cost *	\$dollars	\$14,232	\$91,349	\$4,123,800
CHEU Process Fuel Cost *	\$dollars	\$7,173	\$49,837	\$2,755,334
Rental compressor(s) fuel consumed (well head)	\$dollars	\$0	\$4,221	\$201,880
Rental Compressor(s) helium in fuel (Mcf x \$\$)	\$dollars	\$0	\$3,286	\$263,847
Rental compressor(s) helium in fuel (Mcf)	Mcf	0	31	3154
#1 Compressor run time *	hours	279	3,029	92,493
#2 Compressor run time *	hours	640	1,947	56,602
#3 Compressor run time *	hours	431	2,066	55,078

* Field/CHEU Compressor Operations based on Feb 15 activity

Field Compressor Charges

	Charges Billed (\$)*		
Linde Gas North America, LLC, Contract no. 1995-3249			
Praxair, Inc., Contract no. 1995-3251			
Air Products, L.P., Contract no. 1995-3256			
Keyes Helium Co., LLC, Contract no. 1995-3287			
SubTotal - Cliffside Refiners, LP (provides booster compression services)	(\$56,477)	(\$282,386)	(\$10,810,016)
Cliffside Refiners, LP, GDA010003 (BLM provided fuel *, labor, supplies, etc.)	\$13,232	\$66,159	\$2,699,355
Net Total - Cliffside Refiners, LP	(\$43,245)	(\$216,227)	(\$8,110,661)

* BLM provided fuel cost is based on Jan 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	672	100.0%	3,552	98.0%	99,261
Producing residue gas	672	100.0%	3,528	97.3%	97,936
Producing helium product	672	100.0%	3,522	97.2%	94,976
Producing natural gas liquids	672	100.0%	3,519	97.1%	93,588

CHEU Charges

	Charges Billed (\$)*		
	Month	FYTD	Cumulative
Reservoir Management Fees (RMF)	\$210,947	\$890,354	\$28,208,702
Total operating costs	(\$783,945)	(\$3,966,761)	(\$121,768,593)
Labor	\$76,760	\$383,799	\$12,237,884
Compressor fuel cost Jan 15	\$13,290	\$99,454	\$4,154,721
HEU fuel cost Jan 15	\$8,581	\$54,142	\$2,788,688
Electrical power cost Jan 15	\$140,580	\$694,723	\$18,434,908
Other	\$49,828	\$260,114	\$11,811,059
Sub Total - Items provided by BLM	\$289,039	\$1,492,232	\$52,636,615
Total - Cliffside Refiners, LP, GDA030001	(\$494,906)	(\$2,474,529)	(\$69,131,978)

***Rounded to nearest dollar**

CHEU Utility Usage

	Month	FYTD	Cumulative
Cheu Fuel Gas (Mcf) usage Feb 15	2,512	13,839	492,066
Cheu Pure Water Usage (gallons) Feb 15	1,193	4,033	281,010
Electricity Metered (Kwh) consumed Jan 15	2,710,381	12,659,753	78,685,918