

Bureau of Land Management

Amarillo Field Office Helium Operations



Statistical Report for February - 2013



Distribution:

Fluid Minerals Group Manager, Washington Office
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NMSO, Associate State Director
NMSO, Petroleum Engineer
Field Manager, Amarillo Field Office
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-Federal Leased Lands
-Resources Evaluation & Gas Analysis
-Division Of Helium Operations, -
Engineering and Technical Support

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Amarillo, Texas

Compiled by: Nelson R. Bullard

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"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: June 25, 2013

Table 1 - Summary of Helium Operations

February - 2013

Helium Enrichment Unit Operations

Gas Processed	Month			Gross FYTD	Net FYTD
	Gross Volume	Net Helium	Average Percent		
Measured Plant Feed (Mcf*)	593,398	152,784	25.75%	3,349,918	861,925
Helium Product (Mcf*)	193,325	151,390	78.31%	1,091,038	854,505
Residue Natural Gas (Mcf*)	262,715	0	00.00%	1,509,686	0

* Volumes in Mcf at 14.65 psia & 60°F

Natural Gas & Liquids Produced

Gas Processed	Month	FYTD
Natural Gas Sales (Mcf****)	259,429	1,489,586
NGL Sales (gallons)	101,339	564,711

**** 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Total Withdrawn (Mcf*)	592,191	152,414	25.74%	3,349,131	858,818
Crude Injection (Mcf*)	0	0	00.00%	0	0
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	525,000	0	16,688,600
Conservation Crude Sale Volume Transferred (Mcf*)	0	0	1,050,000	525,000	16,688,600
Conservation Helium in Storage (EOM) (Mcf*)		10,305,636			

* Volumes in Mcf at 14.65 psia & 60°F

In Kind Helium

	Month	FYTD	CYTD	Cumulative
Sale Volumes Transferred (Mcf*)	31,360	78,316	31,360	2,948,443
Sale Volumes Outstanding (Mcf*)	2,669			

* 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*)	46,234	29,357	63.50%	169,009
Crude Disposed (Mcf*)	240,539	181,480	75.45%	1,015,838
Net Balance (Mcf*)	(194,305)	(152,123)		(846,829)
Balance of Stored Helium End Of Month (Mcf*)		1,558,403		

* Volumes in Mcf at 14.65 psia & 60°F

Revenue / Charges

Helium Storage Contracts (Charges Billed (\$))	Month	FYTD
Storage Fees Billed (\$)	\$286,279	\$1,203,298
Reservoir Management Fees Billed (\$)	\$198,848	\$1,130,152

Field Compressor Charges (Charges Billed (\$))

	Month	FYTD
Funded by the Refiners (provides for booster compression services)	(\$55,778)	(\$278,889)
Cliffside Refiners, LP, by Agreement #GDA010003 (reimburses BLM for fuel, labor, supplies, etc.)	\$12,540	\$62,701
Net-Total (Funded by the Refiners for compression costs.)	(\$43,238)	(\$216,188)

Enrichment Unit Charges (Charges Billed (\$))

	Month	FYTD
Reservoir Management Fees (RMF)	\$198,848	\$1,130,152
Total operating costs	(\$741,704)	(\$4,025,108)
Sub Total - Items provided by BLM	\$248,018	\$1,556,681
Total - Cliffside Refiners, LP, GDA030001	(\$493,685)	(\$2,468,427)

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

	Month	FYTD
Conservation Crude Helium Sales	\$0	\$44,100,000
In Kind Sales	\$0	\$2,197,787
Natural Gas & Liquid Sales	\$1,047,101	\$5,747,031

Helium Resources Evaluation

	Month	FYTD
Revenue Collected from Federal Lease Holds	\$1,007,607	\$5,257,678
Helium Sample Collection Report for month	Submitted - 0	Received - 0
	Analyzed - 15	

*Rounded to nearest dollar

Table 2 - Bush Dome Reservoir Operations

February - 2013

		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		592,191	205,781,144	152,414	38,284,772	146,311	50,640,367	258,881	104,637,766	29,388	10,510,115	5,197	1,708,125
BIVINS A-3	Feb-13	17,451	10,877,009	8,796	3,508,437	4,356	2,750,866	3,774	4,139,554	409	405,070	117	73,082
BIVINS A-6	Feb-13	55,507	10,201,860	32,949	6,078,198	11,873	2,501,597	7,727	1,436,401	2,416	141,333	541	44,330
BIVINS A-13	Feb-13	49,500	7,018,435	18,806	3,933,854	12,306	1,811,914	16,210	1,113,986	1,812	120,778	366	37,903
BIVINS A-14	Feb-13	60,380	7,743,610	27,757	4,838,135	15,053	1,966,801	15,445	812,871	1,636	85,253	489	40,549
BIVINS A-4	Feb-13	34,737	12,288,511	6,082	2,231,269	8,450	2,979,280	17,963	6,337,027	1,902	633,157	340	107,779
BUSH A-2	Feb-13	50,812	11,556,352	6,891	1,774,349	12,713	2,826,566	27,782	6,226,343	3,059	630,512	367	98,582
Injection	Feb-13	0	66,240,889	0	47,846,276	0	17,067,782	0	775,688	0	23	0	551,121
inj Bivins A-3	Feb-13	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-13	0	(24,201,365)	0	(17,514,139)	0	(6,437,517)	0	(138,222)	0	(12)	0	(111,475)
inj Bivins A-13	Feb-13	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-13	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-13	0	(2,527,801)	0	(1,848,815)	0	(601,353)	0	(42,016)	0	0	0	(35,617)
inj Bush A-2	Feb-13	0	(867,658)	0	(625,258)	0	(215,406)	0	(13,980)	0	0	0	(13,015)
Production	Feb-13	0	1,217,868	0	897,578	0	261,663	0	47,122	0	3,172	0	8,333
BIVINS A-1	Feb-13	0	2,686,608	0	48,896	0	636,995	0	1,798,415	0	175,704	0	26,597
BIVINS A-2	Feb-13	24,280	13,331,997	1,147	1,856,608	5,721	3,272,889	15,550	7,361,789	1,627	730,938	234	109,773
BIVINS A-5	Feb-13	33,385	15,106,397	6,617	1,873,046	8,513	3,695,390	16,238	8,550,581	1,760	855,870	257	131,510
BIVINS A-7	Feb-13	24,163	11,106,060	7,752	2,564,839	6,292	2,791,479	8,955	5,147,060	1,004	521,590	160	81,092
BIVINS A-9	Feb-13	11,499	9,607,160	241	181,103	2,982	2,353,748	7,403	6,345,006	781	638,847	92	88,455
BIVINS A-11	Feb-13	22,146	5,742,745	626	118,556	5,679	1,423,585	14,134	3,761,497	1,501	384,978	206	54,128
BIVINS A-15	Feb-13	22,932	8,689,082	404	410,829	5,421	2,072,625	15,273	5,562,108	1,563	555,405	271	88,114
BIVINS B-1	Feb-13	22,601	6,899,933	599	273,289	5,545	1,670,875	14,692	4,436,852	1,523	451,019	243	67,898
BIVINS B-2	Feb-13	27,431	5,640,098	523	106,088	7,023	1,408,249	17,581	3,672,897	1,847	376,736	457	76,128
BUSH A-1	Feb-13	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-13	36,067	11,056,191	13,933	2,494,268	9,220	2,726,633	11,350	5,213,901	1,265	524,313	300	97,076
BUSH A-4	Feb-13	23,597	8,009,282	3,729	1,503,868	6,045	2,000,100	12,349	4,036,995	1,335	409,830	139	58,489
BUSH A-5	Feb-13	48,574	15,119,566	14,807	3,393,726	12,413	3,789,377	18,963	7,111,513	2,105	718,344	286	106,605
BUSH A-8	Feb-13	12,671	3,690,279	235	67,671	3,154	889,851	8,231	2,442,678	855	245,672	195	44,407
BUSH A-9	Feb-13	6,227	3,845,175	318	104,224	1,576	926,890	3,868	2,527,442	432	252,401	32	34,218
BUSH A-11	Feb-13	7,670	4,259,525	192	126,140	1,841	1,018,723	5,020	2,783,983	516	282,372	100	48,307
BUSH B-1	Feb-13	560	3,193,300	10	59,976	136	757,482	370	2,134,669	39	209,869	5	31,303
FUQUA A-1	Feb-13	0	2,954,094	0	53,854	0	702,797	0	1,975,172	0	193,572	0	28,699
FUQUA A-2	Feb-13	0	132,119	0	2,404	0	31,322	0	88,458	0	8,637	0	1,297
FUQUA A-3	Feb-13	0	9,303,795	0	577,003	0	2,277,658	0	5,790,286	0	583,693	0	75,155
TT Fuel	Feb-13	141	0	3	0	34	0	93	0	10	0	1	0
field-wide pct's				25.74%	18.60%	24.71%	24.61%	43.72%	50.85%	4.96%	5.11%	0.88%	0.83%

Latest estimates of reserves and feed to HEU

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

As of EOM Feb-13 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 - 12	72.131	19.611
Injection 2003 - 12	(1.189)	(0.985)
Produced to Date 2013	1.271	0.326
Injected to Date 2013	0.000	0.000
Amount of Raw Gas Available to CHEU	108.351	=====> 14.302 total helium in reservoir
Estimated Bottom Hole Pressure	398.958	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 - 2013

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-13	593,398	70,939,496	152,784	18,283,850	148,415	17,804,158	259,493	30,955,534	27,660	3,297,333	5,046	598,621
Calculated Feed	Feb-13	591,421	70,599,368	152,370	18,277,623	146,114	17,716,892	258,409	30,718,703	29,334	3,289,421	5,194	596,730
Feed to Box	Feb-13	587,638	70,181,771	152,370	18,277,801	146,114	17,716,975	258,409	30,718,748	29,334	3,289,428	1,410	178,818
Cheu Product	Feb-13	193,325	22,961,238	151,390	18,053,271	36,675	4,301,380	3,897	446,166	0	396	1,362	160,025
Residue	Feb-13	262,715	31,029,324	0	1,477	5,989	777,710	234,176	27,516,659	22,550	2,732,240	0	1,238
Cold Box Vent	Feb-13	95,769	12,048,448	77	86,126	87,859	10,661,137	7,815	1,240,394	0	135	19	60,655
Flare/Boot Strap	Feb-13	95,769	2,564,697	77	46,906	87,859	1,916,139	7,815	502,563	0	93,600	19	5,489
Fuel From Cheu	Feb-13	7,209	952,575	0	245	231	28,822	5,926	773,552	1,052	149,957	0	0
Shrinkage/Loss	Feb-13	5,299	300,499	0	0	0	0	0	0	5,299	300,499	0	0
Unaccounted*	Feb-13	16,589	1,942,344	635	82,379	13,171	1,585,277	2,769	271,043	(0)	1,084	13	2,561

*Before October 2004, the values are estimated

Storage Operations

Inventory (contained helium)

	Government	Private
Beginning inventory	10,338,853	1,679,166
net acceptances + redeliveries	0	0
	0	(152,123)
In Kind Transfers	(31,360)	31,360
Conservation Crude Sales	0	0
Gain/loss	(1,858)	
Ending Inventory	10,305,636	1,558,403
Total Helium in Reservoir	14,301,916	
Total Helium in Storage	11,864,039	
Helium in native gas	2,437,878	

Crude Helium Pipeline

	Gross	Net Helium	Percent
Beginning inventory	33,610	25,372	75.49%
Measured to Pipeline (Private Plants)	46,234	29,579	63.98%
Measured from Pipeline (Private Plant)	240,539	181,480	75.45%
HEU Production	193,325	151,390	78.31%
Injection	0	0	00.00%
Production	0	0	
Ending Inventory	30,471	23,004	75.49%
Gain/Loss	(2,159)	(1,858)	

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 - 2013

	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										
Jack B. Kelley Co., Contract no. INC98-0110										
Month										
FYTD										
Portland Welding Supply, Contract no. INC98-0111										
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										
Total month	0	0	0	0	0	0	0	0	\$0	
Total FYTD	12,521	2,144	16	25	4,767	14,605	34,078	33,554	\$2,197,787	
Total CYTD	0	0	0	0	0	0	0	0	\$0	
Cumulative	1,696,735	97,452	344	271,511	402,182	529,264	2,997,488	2,951,037	\$163,669,478	
In Kind Transfers							Month	FYTD	CYTD	Cumulative
Transferred							31,360	78,316	31,360	2,948,443
Volume outstanding							2,669			

* 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 - 2013

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	6,300	6,300	0	\$0	
Cumulative	270,550		264,250	\$18,302,250	
<u>Air Products, L.P.</u>					
Month	0	0	0	\$0	
FYTD	369,495	183,960	185,535	\$15,584,940	
Cumulative	6,679,900		6,495,940	\$414,562,819	
<u>Linde Gas North America, LLC</u>					
Month	0	0	0	\$0	
FYTD	270,795	134,610	136,185	\$11,439,540	
Cumulative	5,194,915		5,060,305	\$312,604,068	
<u>Keyes Helium Co., LLC</u>					
Month	0	0	0	\$0	
FYTD	53,655	26,040	27,615	\$2,319,660	
Cumulative	837,085		811,045	\$50,449,483	
<u>Matheson Tri-Gas, Inc.</u>					
Month	0	0	0	\$0	
FYTD	0	0	0	\$0	
Cumulative	10,000		10,000	\$587,500	
<u>Praxair, Inc.</u>					
Month	0	0	0	\$0	
FYTD	349,755	174,090	175,665	\$14,755,860	
Cumulative	4,021,150		3,847,060	\$251,811,531	
<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	
Total month	0	0	0	\$0	
Total FYTD	1,050,000	525,000	525,000	\$44,100,000	
Total CYTD	525,000		0	\$0	
Cumulative	17,213,600		16,688,600	\$1,059,352,650	
Conservation Crude Transfers					
		Month	FYTD	CYTD	Cumulative
Transferred		0	1,050,000	525,000	16,688,600
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			(billed monthly)
Month	259,429	---	284,722	1,097	(\$29,441)
FYTD	1,489,586	---	1,632,774	1,096	(\$144,034)
Cumulative	30,428,628	---	33,429,075	1,099	(\$3,378,522)
<u>Minerals Management Service</u>					
		No Longer Provides Natural Gas Marketing Services			
Cumulative	---	---	---	---	(\$179,913)
<u>Tenaska</u>					
		Purchaser - Natural Gas		\$/Unit	
Month	---	---	295,300	\$3.153586	\$931,254
FYTD	---	---	1,608,022	\$3.157826	\$5,077,854
Cumulative	---	---	33,193,435	\$4.986609	\$164,696,131
<u>Sandstone</u>					
		Purchaser - Natural Gas Liquids			
Month	---	101,339	10,699	\$13.579607	\$145,288
FYTD	---	564,711	60,002	\$13.553055	\$813,210
Cumulative	---	8,841,661	943,136	\$12.400821	\$11,695,661
	Natural Gas (Mcf)***	NGLs (gal)	Purchased (Dth's)	\$/Per Unit (\$\$/Dth)	Total (\$)
Total month	259,429	101,339	305,999	\$3.421911	\$1,047,101
Total FYTD	1,489,586	564,711	1,668,024	\$3.445413	\$5,747,031
Total CYTD	561,925	223,783	640,693	\$3.473250	\$2,225,287
Cumulative	30,428,628	8,841,661	34,136,571	\$5.087210	\$172,833,357

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

**Rounded to nearest dollar

Table 6 - Helium Resources Evaluation

February - 2013

All Volumes in Mcf at 14.7 psia & 70°F

Revenue Collected From Federal Leaseholds	Month*	FYTD*
Fee Sales & Royalties	\$1,030,250	\$5,245,401
Natural Gas Royalties (1)	\$0	\$6,280
Natural Gas Rentals	\$0	\$0
Other	\$5,997	\$144,316
Revenue Collected from Federal Lease Holds	\$1,007,607	\$5,257,678

*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	70
Total Number of Samples Analyzed For Resources Division	0	70
Total Number of Other Samples Analyzed (2)	15	105

U. S. Helium Production

<i>Domestic</i>	FY Volume	CY Volume
2007 Helium Sold	4,995,600	4,965,176
2008 Helium Sold	4,771,200	4,668,286
2009 Helium Sold	4,325,600	4,238,415
2010 Helium Sold	4,559,100	4,644,278
2011 Helium Sold	4,691,100	4,768,537
Estimated Helium Resources as of 12/31/2006 (Mcf)		732,000,000

	FY-2011	CY-2011
U.S. Helium Exports (3)	2,966,225	3,027,731

(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 - 2013

All Volumes in Mcf at 14.65 psia & 60°F

	Metered Gas					Transferred Gas Helium		Stored Helium EOM	Charges Billed (\$)**	
	Gross Gas	Helium %	Helium	Helium		Month	Cumulative		Month	FYTD
	Month		FYTD	CYTD	Cumulative					
Total All Contracts*										
Crude Acquired	46,234	63.5%	29,357	169,009	60,976	30,448,006	75,309	49,718,674		
Crude Disposed	240,539	75.4%	181,480	1,015,838	387,606	46,405,515	43,949	30,724,044	\$286,279	Storage Fees
Grade-A Rdlvrd	0		0	0	0	1,478,718			\$198,848	RMF Fees
Net/Balance	(194,305)		(152,123)	(846,829)	(326,630)	(17,436,227)	31,360	18,994,630	1,558,403	\$485,127 \$2,333,449
Total Prior Contracts (TERMINATED)										
Crude Acquired			0	0	0	17,406,129	0	18,196,898		
Crude Disposed			0	0	0	11,830,863	0	19,148,768		
Grade-A Rdlvrd			0	0	0	1,478,718				
Number of trailers			0	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										
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										
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										

Government Helium

Remaining Crude Acquired beginning of the month	10,338,853
Crude Disposed: In Kind Sales transferred for the month	(31,360)
Conservation Crude Sales/Reserve Sell Down transferred (month)	0
Gains and Loses for the month	(1,858)
Net/Balance of Purchased Helium Remaining for Sale	10,305,636

*Includes In Kind and Conservation Crude transfers from Government storage

**Rounded to nearest dollar

Table 8 - Compression & CHEU (Charges & Operations)

February - 2013

Field/CHEU Compressor Operations		Month	FYTD	Cumulative
Spot gas fuel price *	\$ per/MMBTU	\$3.15	\$4.25	\$5.20
Fuel used * (now includes field compression well head)	total MMBTU	10,933	60,357	1,333,891
Field Compression Fuel Cost *	\$dollars	\$0	\$0	\$654,398
CHEU Compression Fuel Cost *	\$dollars	\$16,147	\$86,251	\$3,645,006
CHEU Process Fuel Cost *	\$dollars	\$10,474	\$56,823	\$2,446,823
Rental compressor(s) fuel consumed (well head)	\$dollars	\$7,818	\$47,323	\$66,416
Rental Compressor(s) helium in fuel (Mcf x \$\$)	\$dollars	\$11,088	\$65,856	\$123,382
Rental compressor(s) helium in fuel (Mcf)	Mcf	132	784	1544
#1 Compressor run time *	hours	339	3,291	78,068
#2 Compressor run time *	hours	367	1,575	50,863
#3 Compressor run time *	hours	619	2,372	42,106

* Field/CHEU Compressor Operations based on Feb 13 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)	(\$55,778)	(\$278,889)	(\$9,405,849)
Cliffside Refiners, LP, GDA010003 (BLM provided fuel *, labor, supplies, etc.)	\$12,540	\$62,701	\$2,349,042
Net Total - Cliffside Refiners, LP	(\$43,238)	(\$216,188)	(\$7,056,808)

* BLM provided fuel cost is based on Jan 13 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	664	98.9%	3,617	99.8%	82,244
Producing residue gas	657	97.7%	3,610	99.6%	81,339
Producing helium product	653	97.2%	3,606	99.5%	78,427
Producing natural gas liquids	657	97.7%	3,610	99.6%	76,935

CHEU Charges	Charges Billed (\$)*		
	Month	FYTD	Cumulative
Reservoir Management Fees (RMF)	\$198,848	\$1,130,152	\$23,965,423
Total operating costs	(\$741,704)	(\$4,025,108)	(\$101,253,717)
Labor	\$91,255	\$456,276	\$9,612,537
Compressor fuel cost Jan 13	\$18,202	\$84,493	\$3,679,674
HEU fuel cost Jan 13	\$11,914	\$55,131	\$2,481,176
Electrical power cost Jan 13	\$42,707	\$546,236	\$15,115,751
Other	\$83,940	\$414,546	\$9,975,881
Sub Total - Items provided by BLM	\$248,018	\$1,556,681	\$44,074,373
Total - Cliffside Refiners, LP, GDA030001	(\$493,685)	(\$2,468,427)	(\$57,179,344)

***Rounded to nearest dollar**

CHEU Utility Usage	Month	FYTD	Cumulative
Cheu Fuel Gas (Mcf) usage Feb 13	2,905	15,597	422,320
Cheu Pure Water Usage (gallons) Feb 13	1,516	5,911	263,503
Electricity Metered (Kwh) consumed Jan 13	3,173,673	14,374,701	14,374,701