

# Bureau of Land Management

## Amarillo Field Office

### Helium Operations



### Statistical Report for August - 2013



#### *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  
-Natural Gas Engineering

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Amarillo, Texas

Issued: February 21, 2014

*\* Revised \**

**\*Tables include COMPANY PROPRIETARY INFORMATION (shaded) and is for internal use only.  
This information shall not be released unless express permission is authorized.**

"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 /s/

Date: 2/21/2014

Table 1 - Summary of Helium Operations

August - 2013

**Helium Enrichment Unit Operations**

Gas Processed	Month			Gross FYTD	Net FYTD
	Gross Volume	Net Helium	Average Percent		
Measured Plant Feed (Mcf*)	570,805	134,509	23.56%	7,007,457	1,771,631
Helium Product (Mcf*)	169,562	130,972	77.24%	2,231,269	1,740,712
Residue Natural Gas (Mcf*)	251,695	68	0.03%	3,159,497	68

\* Volumes in Mcf at 14.65 psia & 60°F

**Natural Gas & Liquids Produced**

Gas Processed	Month	FYTD
Natural Gas Sales (Mcf***)	248,863	3,101,680
NGL Sales (gallons)	91,137	1,173,311

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

**Bush Dome Reservoir Operations**  
Conservation gases from all sources

Conservation gases from all sources	Month			Gross FYTD	Net FYTD
	Gross Volume	Net Helium	Average Percent		
Total Withdrawn (Mcf*)	570,354	132,747	23.27%	6,992,671	1,749,846
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*)		180,390	1,755,390	1,230,390	17,918,990
Conservation Crude Sale Volume Transferred (Mcf*)	365,925	0	1,914,465	1,389,465	17,553,065
Conservation Helium in Storage (EOM) (Mcf*)		9,366,705			

\* Volumes in Mcf at 14.65 psia & 60°F

**In Kind Helium**

	Month	FYTD	CYTD	Cumulative
Sale Volumes Transferred (Mcf*)	28,861	142,865	95,909	3,012,992
Sale Volumes Outstanding (Mcf*)	3,927			

\* 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*)	57,185	38,159	66.73%	385,287
Crude Disposed (Mcf*)	222,581	166,418	74.77%	2,104,966
Net Balance (Mcf*)	(165,396)	(128,259)		(1,719,679)
Balance of Stored Helium End Of Month (Mcf*)		1,614,567		

\* Volumes in Mcf at 14.65 psia & 60°F

**Revenue / Charges**

Helium Storage Contracts (Charges Billed (\$))	Month	FYTD
Storage Fees Billed (\$)	\$301,982	\$2,977,920
Reservoir Management Fees Billed (\$)	\$171,018	\$2,289,320

**Field Compressor Charges (Charges Billed (\$))**

	Month	FYTD
Funded by the Refiners (provides for booster compression services)	(\$55,778)	(\$613,556)
Cliffside Refiners, LP, by Agreement #GDA010003 (reimburses BLM for fuel, labor, supplies, etc.)	\$12,540	\$137,943
Net-Total (Funded by the Refiners for compression costs.)	(\$43,238)	(\$475,613)

**Enrichment Unit Charges (Charges Billed (\$))**

	Month	FYTD
Reservoir Management Fees (RMF)	\$171,018	\$2,289,320
Total operating costs	(\$840,533)	(\$8,962,699)
Sub Total - Items provided by BLM	\$346,848	\$3,532,161
Total - Cliffside Refiners, LP, GDA030001	(\$493,685)	(\$5,430,539)

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

	Month	FYTD
Conservation Crude Helium Sales	\$15,152,760	\$147,452,760
In Kind Sales	\$0	\$6,654,071
Natural Gas & Liquid Sales	\$932,024	\$12,600,691

**Helium Resources Evaluation**

	Month	FYTD
Revenue Collected from Federal Lease Holds	\$1,033,694	\$11,664,837
Helium Sample Collection Report for month	Submitted - 0	Received - 0
	Analyzed - 19	

\*Rounded to nearest dollar

Table 2 - Bush Dome Reservoir Operations

August - 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
<b>TOTAL</b>		<b>570,354</b>	<b>209,424,685</b>	<b>132,747</b>	<b>39,175,800</b>	<b>143,438</b>	<b>51,555,281</b>	<b>261,099</b>	<b>106,267,903</b>	<b>28,054</b>	<b>10,685,896</b>	<b>5,016</b>	<b>1,739,805</b>
BIVINS A-3	Aug-13	3,768	10,946,990	1,716	3,542,414	951	2,768,585	966	4,155,565	109	406,869	25	73,557
BIVINS A-6	Aug-13	51,592	10,543,384	30,040	6,281,190	13,127	2,588,399	7,295	1,481,070	754	145,906	377	46,820
BIVINS A-13	Aug-13	52,737	7,347,318	19,459	4,056,260	13,318	1,894,980	17,516	1,222,342	2,046	133,363	398	40,373
BIVINS A-14	Aug-13	61,665	8,146,220	24,455	5,002,928	15,571	2,068,503	18,984	932,266	2,137	98,625	518	43,897
BIVINS A-4	Aug-13	34,618	12,505,853	5,294	2,266,546	8,347	3,031,811	18,648	6,452,193	1,983	645,375	346	109,928
BUSH A-2	Aug-13	46,482	11,850,522	6,039	1,806,281	11,638	2,898,927	25,621	6,395,458	2,859	648,988	325	100,868
Injection	Aug-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	Aug-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	Aug-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	Aug-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	Aug-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	Aug-13	0	(2,527,801)	0	(1,848,815)	0	(601,353)	0	(42,016)	0	0	0	(35,617)
inj Bush A-2	Aug-13	0	(867,658)	0	(625,258)	0	(215,406)	0	(13,980)	0	0	0	(13,015)
Production	Aug-13	0	1,217,868	0	897,578	0	261,663	0	47,122	0	3,172	0	8,333
BIVINS A-1	Aug-13	0	2,686,608	0	48,896	0	636,995	0	1,798,415	0	175,704	0	26,597
BIVINS A-2	Aug-13	11,846	13,429,740	526	1,860,993	2,896	3,295,899	7,500	7,424,554	788	737,555	136	110,739
BIVINS A-5	Aug-13	31,190	15,308,100	5,828	1,911,741	7,919	3,746,594	15,510	8,649,933	1,693	866,760	241	133,073
BIVINS A-7	Aug-13	23,274	11,256,204	7,417	2,613,072	6,032	2,830,379	8,688	5,202,768	982	527,879	156	82,106
BIVINS A-9	Aug-13	16,331	9,718,148	348	183,438	4,230	2,382,503	10,512	6,416,451	1,110	646,412	131	89,343
BIVINS A-11	Aug-13	25,915	5,901,655	744	123,087	6,642	1,464,322	16,537	3,862,904	1,751	395,739	241	55,603
BIVINS A-15	Aug-13	27,004	8,850,547	473	413,662	6,380	2,110,788	17,995	5,669,665	1,837	566,411	319	90,019
BIVINS B-1	Aug-13	26,941	7,060,261	669	277,378	6,574	1,710,009	17,567	4,541,302	1,835	461,922	296	69,650
BIVINS B-2	Aug-13	32,013	5,831,507	609	109,732	8,192	1,457,235	20,527	3,795,602	2,150	389,617	535	79,321
BUSH A-1	Aug-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	Aug-13	34,059	11,277,082	12,338	2,576,619	8,656	2,782,841	11,494	5,286,277	1,287	532,439	283	98,906
BUSH A-4	Aug-13	17,757	8,126,444	2,454	1,521,084	4,526	2,029,979	9,627	4,099,571	1,047	416,637	103	59,173
BUSH A-5	Aug-13	46,162	15,413,023	13,864	3,482,337	11,746	3,864,078	18,245	7,227,015	2,039	731,272	268	108,322
BUSH A-8	Aug-13	15,703	3,762,518	227	68,841	3,983	908,028	10,433	2,490,213	869	250,047	191	45,389
BUSH A-9	Aug-13	159	3,859,709	8	104,975	39	930,619	100	2,536,432	11	253,381	1	34,302
BUSH A-11	Aug-13	6,370	4,278,323	152	126,597	1,525	1,023,219	4,177	2,796,302	432	283,649	84	48,556
BUSH B-1	Aug-13	4,740	3,212,489	87	60,329	1,141	762,115	3,138	2,147,361	332	211,218	41	31,466
FUQUA A-1	Aug-13	0	2,954,098	0	53,854	0	702,798	0	1,975,174	0	193,573	0	28,699
FUQUA A-2	Aug-13	0	132,119	0	2,404	0	31,322	0	88,458	0	8,637	0	1,297
FUQUA A-3	Aug-13	28	9,303,861	1	577,004	7	2,277,675	18	5,790,329	2	583,698	0	75,155
TT Fuel	Aug-13	382	0	4	0	53	0	281	0	43	0	2	0
field-wide pcts				23.27%	18.71%	25.15%	24.62%	45.78%	50.74%	4.92%	5.10%	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 Aug-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	4.915	1.217
Injected to Date 2013	0.000	0.000
Amount of Raw Gas Available to CHEU	104.707	=====> 13.411 total helium in reservoir
Estimated Bottom Hole Pressure	385.554	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

August - 2013

### Crude Helium Enrichment Unit Operations

		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
Measured Feed	Aug-13	570,805	74,597,035	134,509	19,193,556	142,568	18,718,947	260,916	32,583,551	27,780	3,470,804	5,031	630,177
Calculated Feed	Aug-13	570,577	74,239,985	132,742	19,168,481	143,452	18,631,025	261,281	32,347,068	28,086	3,465,021	5,016	628,390
Feed to Box	Aug-13	566,796	73,799,030	132,742	19,168,660	143,452	18,631,107	261,281	32,347,114	28,086	3,465,028	1,235	187,121
Cheu Product	Aug-13	169,562	24,101,469	130,972	18,939,478	34,161	4,525,739	3,227	467,699	2	404	1,199	168,149
Residue	Aug-13	251,695	32,679,135	68	1,545	6,405	817,532	223,660	28,985,383	21,562	2,873,436	0	1,238
Cold Box Vent	Aug-13	89,821	12,638,373	212	86,718	81,635	11,202,052	7,972	1,288,726	(0)	135	2	60,743
Flare/Boot Strap	Aug-13	89,821	3,154,622	212	47,497	81,635	2,457,054	7,972	550,895	(0)	93,600	2	5,577
Fuel From Cheu	Aug-13	7,059	997,927	4	257	183	30,121	5,693	810,448	1,180	157,100	0	0
Shrinkage/Loss	Aug-13	4,161	325,906	0	0	0	0	0	0	4,161	325,906	0	0
Unaccounted*	Aug-13	25,236	2,077,068	568	84,649	15,367	1,681,898	9,278	306,789	0	1,085	24	2,647

\*Before October 2004, the values are estimated

### Storage Operations

#### Inventory (contained helium)

	Government	Private
Beginning inventory	9,396,692	1,713,965
net acceptances + redeliveries	0	0
	0	(128,259)
In Kind Transfers	(28,861)	28,861
Conservation Crude Sales	0	0
Gain/loss	(1,126)	
Ending Inventory	9,366,705	1,614,567
Total Helium in Reservoir	13,410,888	
Total Helium in Storage	10,981,272	
Helium in native gas	2,429,616	

#### Crude Helium Pipeline

	Gross	Net Helium	Percent
Beginning inventory	33,924	25,498	75.16%
Measured to Pipeline (Private Plants)	57,185	38,166	66.74%
Measured from Pipeline (Private Plant)	222,581	166,418	74.77%
HEU Production	169,562	130,972	77.24%
Injection	0	0	00.00%
Production	0	0	
Ending Inventory	36,278	27,092	74.68%
Gain/Loss	(1,812)	(1,126)	

### Tuck Trigg Reservoir Operations

Native Gas (Gross)	Month	Fiscal Year	Since Field
			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

August - 2013

	NASA*	Navy*	Army*	Air Force*	DOE*	Other Fed*	Subtotal*	In Kind+	Charges Billed (\$) **	
<b>In Kind Helium</b>										
21	<b>AirGas South West, Contract no. INC98-0101</b>									(billed quarterly)
3	Month									
4	FYTD									
12	<b>AirGas North Central, Contract no. INC98-0102</b>									
5	Month									
6	FYTD									
13	<b>AirGas Intermountain, Contract no. INC98-0103</b>									
7	Month									
8	FYTD									
1	<b>Air Liquide Helium America, Inc., Contract no. INC98-0104</b>									
9	Month									
10	FYTD									
2	<b>Air Products, L.P., Contract no. INC98-0105</b>									
11	Month									
12	FYTD									
3	<b>Linde Gas North America, LLC, Contract no. INC98-0106</b>									
13	Month									
14	FYTD									
14	<b>Corp Brothers, Inc., Contract no. INC98-0107</b>									
15	Month									
16	FYTD									
15	<b>FIBA Technologies, Inc., Contract no. INC98-0108</b>									
17	Month									
18	FYTD									
16	<b>General Air Service &amp; Supply Co., Contract no. INC98-0109</b>									
19	Month									
20	FYTD									
17	<b>Jack B. Kelley Co., Contract no. INC98-0110</b>									
21	Month									
22	FYTD									
18	<b>Portland Welding Supply, Contract no. INC98-0111</b>									
23	Month									
24	FYTD									
5	<b>Praxair, Inc., Contract no. INC98-0112</b>									
25	Month									
26	FYTD									
19	<b>United States Welding, Inc., Contract no. INC98-0113</b>									
27	Month									
28	FYTD									
20	<b>Matheson Tri-Gas, Inc., Contract no. INC98-0114</b>									
29	Month									
30	FYTD									
23	<b>GT &amp; S, Contract no. INC00-0115</b>									
31	Month									
32	FYTD									
25	<b>Global Gases America, Contract no. INC13-0116</b>									
33	Month									
34	FYTD									
0										
37	<b>Total month</b>	0	0	0	0	0	0	1	\$0	
38	<b>Total FYTD</b>	30,061	7,757	53	49	15,289	47,707	100,916	99,361	\$6,654,071
39	<b>Total CYTD</b>	17,540	5,613	37	24	10,522	33,102	66,838	65,807	\$4,456,284
40	<b>Cumulative</b>	1,714,275	103,065	381	271,535	412,704	562,366	3,064,325	3,016,844	\$168,125,762
<b>In Kind Transfers</b>							Month	FYTD	CYTD	Cumulative
41	Transferred						28,861	142,865	95,909	3,012,992
42	Volume outstanding						3,927			

\* 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  
Helium & Natural Gas Sales

August - 2013

	Award Volume*	Outstanding*	Sales*	Charges Billed (\$)*** (billed quarterly)	
<b>Conservation Helium</b>					
<b>Air Liquide Helium America, Inc.</b>					
Month	0	0	0	\$0	
FYTD	6,300	0	6,300	\$529,200	
Cumulative	270,550		270,550	\$18,831,450	
<b>Air Products, L.P.</b>					
Month	0	0	0	\$0	
FYTD	738,990	183,960	555,030	\$46,622,520	
Cumulative	7,049,395		6,865,435	\$445,600,399	
<b>Linde Gas North America, LLC</b>					
Month	0	0	0	\$0	
FYTD	541,590	134,610	406,980	\$34,186,320	
Cumulative	5,465,710		5,331,100	\$335,350,848	
<b>Keyes Helium Co., LLC</b>					
Month	0	0	0	\$0	
FYTD	107,310	26,040	81,270	\$6,826,680	
Cumulative	890,740		864,700	\$54,956,503	
<b>Matheson Tri-Gas, Inc.</b>					
Month	0	0	0	\$0	
FYTD	0	0	0	\$0	
Cumulative	10,000		10,000	\$587,500	
<b>Praxair, Inc.</b>					
Month	0	(174,090)	174,090	\$14,623,560	
FYTD	699,510	0	699,510	\$58,758,840	
Cumulative	4,370,905		4,370,905	\$295,814,511	
<b>Linde Gas, LLC discontinued 10 2008</b>					
Month	0	0	0	\$0	
FYTD	0	0	0	\$0	
Cumulative	200,000		200,000	\$11,035,000	
<b>Global Gases America</b>					
Month	0	(6,300)	6,300	\$529,200	
FYTD	6,300	0	6,300	\$529,200	
Cumulative	6,300		6,300	\$529,200	
<b>Total month</b>					
	0	(180,390)	180,390	<b>\$15,152,760</b>	
<b>Total FYTD</b>					
	2,100,000	344,610	1,755,390	<b>\$147,452,760</b>	
<b>Total CYTD</b>					
	1,575,000		1,230,390	<b>\$103,352,760</b>	
<b>Cumulative</b>					
	18,263,600		17,918,990	<b>\$1,162,705,410</b>	
<b>Conservation Crude Transfers</b>					
Transferred		Month	FYTD	CYTD	Cumulative
Volume outstanding		0	1,914,465	1,389,465	17,553,065
		365,925			

\* 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)
<b>EI Paso Natural Gas</b>					
		Provides Measured Firm/Interruptible Transportation Services			
Month	248,863	---	272,659	1,096	(\$27,997)
FYTD	3,101,680	---	3,403,088	1,097	(\$312,113)
Cumulative	32,040,722	---	35,199,389	1,099	(\$3,546,601)
<b>Minerals Management Service</b>					
		No Longer Provides Natural Gas Marketing Services			
Cumulative	---	---	---	---	(\$179,913)
<b>Tenaska</b>					
		Purchaser - Natural Gas		\$/Unit	
Month	---	---	264,200	\$3.148456	\$831,822
FYTD	---	---	3,354,583	\$3.370343	\$11,306,094
Cumulative	---	---	34,939,996	\$4.915597	\$170,924,372
<b>Sandstone</b>					
		Purchaser - Natural Gas Liquids			
Month	---	91,137	9,797	\$13.085522	\$128,199
FYTD	---	1,173,311	124,907	\$12.863248	\$1,606,710
Cumulative	---	9,450,261	1,008,041	\$12.389536	\$12,489,160
	Natural Gas (Mcf)***	NGLs (gal)	Purchased (Dth's)	\$/Per Unit (\$\$/Dth)	Total (\$)
<b>Total month</b>	248,863	91,137	273,997	\$3.401584	<b>\$932,024</b>
<b>Total FYTD</b>	3,101,680	1,173,311	3,479,490	\$3.621419	<b>\$12,600,691</b>
<b>Total CYTD</b>	2,174,019	832,383	2,452,159	\$3.702430	<b>\$9,078,947</b>
<b>Cumulative</b>	32,040,722	9,450,261	35,948,037	\$5.021514	<b>\$179,687,017</b>

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

\*\*Rounded to nearest dollar

## Table 6 - Helium Resources Evaluation

August - 2013

All Volumes in Mcf at 14.7 psia & 70°F

<b>Revenue Collected From Federal Leaseholds</b>	Month*	FYTD*
Fee Sales & Royalties	\$1,035,722	\$11,590,558
Natural Gas Royalties (1)	\$0	\$6,280
Natural Gas Rentals	\$0	\$0
Other	\$67,999	\$421,367
<b>Revenue Collected from Federal Lease Holds</b>	<b>\$1,033,694</b>	<b>\$11,664,837</b>

\*Totals do not sum

<b>Helium Analysis and Evaluation</b>	Month	FYTD
Number of Sample Request Letters Sent	0	0
Number of Samples Received	0	0
Number of Samples Analyzed	0	80
Total Number of Samples Analyzed For Resources Division	0	93
Total Number of Other Samples Analyzed (2)	19	222

### 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	4,604,000	4,692,233
Estimated Helium Resources as of 12/31/2006(Mcf)		732,000,000

	FY-2010	CY-2010
<b>U.S. Helium Exports</b> (3)	2,663,848	2,767,536

(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

August - 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
				FYTD	CYTD	Cumulative					
<b>Total All Contracts*</b>											
Crude Acquired	57,185	66.7%	38,159	385,287	277,254	30,664,284	64,095	50,856,329			
Crude Disposed	222,581	74.8%	166,418	2,104,966	1,476,734	47,494,643	35,234	30,932,685		\$301,982	Storage Fees
Grade-A Rdlvrd	0		0	0	0	1,478,718				\$171,018	RMF Fees
Net/Balance	(165,396)		(128,259)	(1,719,679)	(1,199,480)	(18,309,077)	28,861	19,923,644	1,614,567	\$473,001	\$5,267,239
<b>Total Prior Contracts (TERMINATED)</b>											
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		
<b>Linde Gas North America, LLC, Contract no. 1995-3249</b>											
Crude Acquired											
Crude Disposed											
Net/Balance											
<b>Praxair, Inc., Contract no. 1995-3251</b>											
Crude Acquired											
Crude Disposed											
Net/Balance											
<b>Air Products, L.P., Contract no. 1995-3256</b>											
Crude Acquired											
Crude Disposed											
Net/Balance											
<b>ExxonMobil Gas Marketing Co., Contract no. 1995-3280</b>											
Crude Acquired											
Crude Disposed											
Net/Balance											
<b>Pioneer Natural Resources USA, Inc, Contract no. 1995-3286</b>											
Crude Acquired											
Crude Disposed											
Net/Balance											
<b>Keyes Helium Co., LLC, Contract no. 1995-3287</b>											
Crude Acquired											
Crude Disposed											
Net/Balance											
<b>Air Liquide Helium America, Inc., Contract no. 2003-3284</b>											
Crude Acquired											
Crude Disposed											
Net/Balance											
<b>Matheson Tri-Gas, Inc., Contract no. 2007-3288</b>											
Crude Acquired											
Crude Disposed											
Net/Balance											
<b>Airgas Merchant Gases, Contract no. 2009-3290</b>											
Crude Acquired											
Crude Disposed											
Net/Balance											
<b>Global Gases America, Contract no. 2013-3293</b>											
Crude Acquired											
Crude Disposed											
Net/Balance											

<b>Government Helium</b>	
Remaining Crude Acquired beginning of the month	9,396,692
Crude Disposed: In Kind Sales transferred for the month	(28,861)
Conservation Crude Sales/Reserve Sell Down transferred (month)	0
Gains and Losses for the month	(1,126)
Net/Balance of Purchased Helium Remaining for Sale	9,366,705

\*Includes In Kind and Conservation Crude transfers from Government storage

\*\*Rounded to nearest dollar

Table 8 - Compression & CHEU (Charges & Operations)

August - 2013

Field/CHEU Compressor Operations		Month	FYTD	Cumulative
Spot gas fuel price *	\$ per/MMBTU	\$3.15	\$4.39	\$5.17
Fuel used * (now includes field compression well head)	total MMBTU	10,589	127,988	1,401,522
Field Compression Fuel Cost *	\$dollars	\$0	\$0	\$654,398
CHEU Compression Fuel Cost *	\$dollars	\$16,093	\$199,835	\$3,758,590
CHEU Process Fuel Cost *	\$dollars	\$10,584	\$131,318	\$2,521,318
Rental compressor(s) fuel consumed (well head)	\$dollars	\$6,678	\$100,183	\$119,276
Rental Compressor(s) helium in fuel (Mcf x \$\$)	\$dollars	\$8,484	\$130,116	\$187,642
Rental compressor(s) helium in fuel (Mcf)	Mcf	101	1549	2309
#1 Compressor run time *	hours	118	6,966	81,743
#2 Compressor run time *	hours	547	2,543	51,831
#3 Compressor run time *	hours	673	6,231	45,965

\* Field/CHEU Compressor Operations based on Aug 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)	(\$613,556)	(\$9,740,516)
Cliffside Refiners, LP, GDA010003 (BLM provided fuel *, labor, supplies, etc.)	\$12,540	\$137,943	\$2,424,283
Net Total - Cliffside Refiners, LP	(\$43,238)	(\$475,613)	(\$7,316,233)

\* BLM provided fuel cost is based on Jul 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	730	98.1%	7,944	98.8%	86,571
Producing residue gas	688	92.5%	7,882	98.0%	85,611
Producing helium product	677	91.0%	7,848	97.6%	82,669
Producing natural gas liquids	686	92.1%	7,869	97.9%	81,194

CHEU Charges	Charges Billed (\$)*		
	Month	FYTD	Cummulative
Reservoir Management Fees (RMF)	\$171,018	\$2,289,320	\$25,124,592
Total operating costs	(\$840,533)	(\$8,962,699)	(\$106,191,308)
Labor	\$91,255	\$1,003,807	\$10,160,068
Compressor fuel cost Jul 13	\$18,156	\$198,132	\$3,793,313
HEU fuel cost Jul 13	\$10,656	\$129,516	\$2,555,561
Electrical power cost Jul 13	\$147,817	\$1,301,730	\$15,871,245
Other	\$78,964	\$898,976	\$10,460,311
Sub Total - Items provided by BLM	\$346,848	\$3,532,161	\$46,049,852
Total - Cliffside Refiners, LP, GDA030001	(\$493,685)	(\$5,430,539)	(\$60,141,456)

\*Rounded to nearest dollar

CHEU Utility Usage	Month	FYTD	Cumulative
Cheu Fuel Gas (Mcf) usage Aug 13	2,983	33,779	440,502
Cheu Pure Water Usage (gallons) Aug 13	175	9,454	267,046
Electricity Metered (Kwh) consumed Jul 13	2,668,748	30,998,694	30,998,694