

# Bureau of Land Management

## Amarillo Field Office

### Helium Operations



#### Statistical Report for May - 2014



#### *Distribution:*

Fluid Minerals Group Manager, Washington Office  
NMSO, New Mexico State Director  
NMSO, Associate State Director  
NMSO, Petroleum Engineer  
Field Manager, Amarillo Field Office  
Assistant Field Managers (3)  
Team Leaders  
-Federal Leased Lands  
-Resources Evaluation & Gas Analysis  
-Division Of Helium Operations, -  
Engineering and Technical Support

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Amarillo, Texas

*Compiled by: David V. Reeves*

Issued: September 19, 2014

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

**Brent Gage (Acting)**

Date: **September 19, 2014**

## Table 1 - Summary of Helium Operations

May - 2014

### Helium Enrichment Unit Operations

#### Gas Processed

	Month			Gross FYTD	Net FYTD
	Gross Volume	Net Helium	Average Percent		
Measured Plant Feed (Mcf*)	533,855	98,096	18.38%	4,499,275	957,374
Helium Product (Mcf*)	128,004	95,771	74.82%	1,237,626	941,433
Residue Natural Gas (Mcf*)	268,572	0	0.00%	2,182,646	8

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

### Natural Gas & Liquids Produced

#### Gas Processed

	Month	FYTD
Natural Gas Sales (Mcf****)	268,572	2,208,863
NGL Sales (gallons)	88,897	755,430

\*\*\* 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Total Withdrawn (Mcf*)	532,298	96,825	18.19%	4,501,300	949,463
Crude Injection (Mcf*)	3,012	2,232	74.08%	3,012	2,232
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*)		149,159	439,601	417,561	18,681,161
Conservation Crude Sale Volume Transferred (Mcf*)	149,159	0	613,012	268,402	18,532,002
Conservation Helium in Storage (EOM) (Mcf*)		8,292,098			

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

#### In Kind Helium

	Month	FYTD	CYTD	Cumulative
Sale Volumes Transferred (Mcf*)	18,977	81,432	51,390	3,097,875
Sale Volumes Outstanding (Mcf*)	8,618			

\* 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*)	49,768	32,472	65.25%	266,188
Crude Disposed (Mcf*)	164,496	119,789	72.82%	1,183,203
Net Balance (Mcf*)	(114,728)	(87,317)		(917,015)
Balance of Stored Helium End Of Month (Mcf*)		1,620,972		

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

### Revenue / Charges

#### Helium Storage Contracts (Charges Billed (\$))

	Month	FYTD
Storage Fees Billed (\$)	\$293,452	\$2,050,576
Reservoir Management Fees Billed (\$)	\$154,321	\$1,579,960

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

	Month	FYTD
Funded by the Refiners (provides for booster compression services)	(\$60,945)	(\$487,558)
Cliffside Refiners, LP, by Agreement #GDA010003 (reimburses BLM for fuel, labor, supplies, etc.)	\$16,364	\$130,915
Net-Total (Funded by the Refiners for compression costs.)	(\$44,580)	(\$356,642)

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

	Month	FYTD
Reservoir Management Fees (RMF)	\$154,321	\$1,579,960
Total operating costs	(\$879,291)	(\$7,214,933)
Sub Total - Items provided by BLM	\$377,432	\$3,200,062
Total - Cliffside Refiners, LP, GDA030001	(\$501,859)	(\$4,014,872)

### Conservation Helium - Natural Gas - Liquid Sales

(Charges Billed (\$))

	Month	FYTD
Conservation Crude Helium Sales	\$14,170,105	\$41,475,655
In Kind Sales	\$0	\$4,050,756
Natural Gas & Liquid Sales	\$1,355,391	\$11,541,280

### Helium Resources Evaluation

	Month	FYTD
Revenue Collected from Federal Lease Holds	\$58,857	\$8,738,682
Helium Sample Collection Report for month	Submitted - 0	Received - 0
	Analyzed - 14	

\*Rounded to nearest dollar

Table 2 - Bush Dome Reservoir Operations

May - 2014

		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>532,298</b>	<b>214,493,888</b>	<b>96,825</b>	<b>40,259,666</b>	<b>132,856</b>	<b>52,825,370</b>	<b>268,670</b>	<b>108,676,961</b>	<b>28,996</b>	<b>10,946,408</b>	<b>4,952</b>	<b>1,785,482</b>
BIVINS A-3	May-14	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	May-14	26,013	10,962,526	14,674	6,516,854	6,545	2,694,984	4,173	1,547,931	431	152,861	190	49,896
BIVINS A-13	May-14	47,259	7,832,795	16,869	4,231,553	11,919	2,017,527	16,213	1,387,025	1,901	152,645	358	44,046
BIVINS A-14	May-14	46,950	8,667,153	17,253	5,201,879	11,831	2,199,964	15,691	1,099,498	1,771	117,483	404	48,329
BIVINS A-4	May-14	29,439	12,790,390	3,865	2,306,461	7,069	3,100,256	16,459	6,608,866	1,743	661,990	303	112,818
BUSH A-2	May-14	43,692	12,258,142	5,116	1,857,033	10,925	3,000,894	24,592	6,622,123	2,754	674,376	306	103,717
Injection	May-14	3,012	66,243,902	2,232	47,848,507	701	17,068,482	60	775,748	0	23	20	551,141
inj Bivins A-3	May-14	0	(25,652,315)	0	(18,384,452)	0	(6,554,549)	0	(332,777)	0	0	0	(380,537)
inj Bivins A-6	May-14	(3,012)	(24,204,377)	(2,231)	(17,516,370)	(701)	(6,438,219)	(60)	(138,282)	0	(12)	(20)	(111,495)
inj Bivins A-13	May-14	0	(6,490,417)	0	(4,706,191)	0	(1,656,853)	0	(122,391)	0	(2)	0	(4,980)
inj Bivins A-14	May-14	0	(6,501,333)	0	(4,767,421)	0	(1,602,106)	0	(126,303)	0	(7)	0	(5,497)
inj Bivins A-4	May-14	0	(2,527,801)	0	(1,848,815)	0	(601,353)	0	(42,016)	0	0	0	(35,617)
inj Bush A-2	May-14	0	(867,658)	0	(625,258)	0	(215,406)	0	(13,980)	0	0	0	(13,015)
Production	May-14	0	1,217,868	0	897,578	0	261,663	0	47,122	0	3,172	0	8,333
BIVINS A-1	May-14	0	2,686,608	0	48,896	0	636,995	0	1,798,415	0	175,704	0	26,597
BIVINS A-2	May-14	20,327	13,609,817	744	1,866,972	4,725	3,338,213	13,253	7,542,232	1,403	749,897	201	112,504
BIVINS A-5	May-14	26,554	15,565,405	4,676	1,958,344	6,738	3,811,907	13,464	8,779,232	1,472	880,868	205	135,055
BIVINS A-7	May-14	20,793	11,455,015	6,507	2,675,690	5,390	2,881,925	7,867	5,277,628	891	536,334	138	83,436
BIVINS A-9	May-14	20,368	9,896,527	434	187,206	5,271	2,428,700	13,112	6,531,296	1,386	658,545	165	90,780
BIVINS A-11	May-14	22,592	6,113,908	662	129,255	5,783	1,518,689	14,405	3,998,265	1,530	410,120	211	57,580
BIVINS A-15	May-14	35,593	9,122,569	622	418,412	8,401	2,175,037	23,720	5,850,935	2,427	584,930	424	93,255
BIVINS B-1	May-14	36,654	7,345,164	880	284,272	8,939	1,779,510	23,918	4,727,205	2,503	481,338	415	72,839
BIVINS B-2	May-14	27,965	6,103,292	532	114,904	7,147	1,526,742	17,931	3,969,842	1,880	407,893	476	83,910
BUSH A-1	May-14	0	5,721,962	0	104,140	0	1,356,677	0	3,830,281	0	374,216	0	56,647
BUSH A-3	May-14	27,742	11,555,346	9,250	2,673,136	7,036	2,853,493	10,097	5,384,127	1,128	543,370	230	101,220
BUSH A-4	May-14	19,863	8,287,749	2,433	1,541,959	5,058	2,071,079	11,052	4,188,315	1,206	426,287	114	60,110
BUSH A-5	May-14	39,759	15,795,055	11,487	3,594,626	10,114	3,961,289	16,126	7,380,198	1,799	748,386	233	110,557
BUSH A-8	May-14	22,898	3,895,712	424	71,309	5,701	941,198	14,870	2,576,717	1,542	259,014	361	47,475
BUSH A-9	May-14	0	3,860,915	0	105,037	0	930,915	0	2,537,187	0	253,463	0	34,312
BUSH A-11	May-14	12,985	4,381,087	309	129,082	3,104	1,047,786	8,513	2,863,659	886	290,639	174	49,921
BUSH B-1	May-14	4,850	3,235,553	90	60,756	1,161	767,648	3,214	2,162,635	341	212,842	44	31,673
FUQUA A-1	May-14	0	2,954,098	0	53,854	0	702,798	0	1,975,175	0	193,573	0	28,699
FUQUA A-2	May-14	0	132,119	0	2,404	0	31,322	0	88,458	0	8,637	0	1,297
FUQUA A-3	May-14	0	9,303,868	0	577,004	0	2,277,677	0	5,790,333	0	583,698	0	75,155
TT Fuel	May-14	57	0	2	0	14	0	37	0	4	0	1	0
field-wide pcts				18.19%	18.77%	24.96%	24.63%	50.47%	50.67%	5.45%	5.10%	0.93%	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 May-14

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 - 13	79.431	21.371
Injection 2003 - 13	(1.189)	(0.985)
Produced to Date 2014	2.683	0.541
Injected to Date 2014	(0.003)	(0.002)
Amount of Raw Gas Available to CHEU	99.642	====> 12.329 total helium in reservoir
Estimated Bottom Hole Pressure	366.918	est z-factor 0.980

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

# Table 3 - Gas Volumes & Inventory

May - 2014

## 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	May-14	533,855	79,690,234	98,096	20,292,168	132,854	19,993,921	269,232	34,998,591	28,728	3,729,525	4,944	676,029
Calculated Feed	May-14	532,355	79,308,805	96,827	20,252,321	132,870	19,901,019	268,706	34,755,890	28,999	3,725,509	4,952	674,066
Feed to Box	May-14	528,286	78,832,227	96,827	20,252,500	132,870	19,901,101	268,706	34,755,936	28,999	3,725,514	884	197,176
Cheu Product	May-14	128,004	25,511,958	95,771	20,014,770	28,795	4,822,856	2,579	496,017	1	421	857	177,895
Residue	May-14	268,572	35,129,153	0	1,553	6,071	872,237	239,143	31,168,519	23,358	3,085,607	0	1,238
Cold Box Vent	May-14	90,124	13,484,090	93	87,352	80,807	11,967,887	9,215	1,367,885	(0)	135	10	60,833
Flare/Boot Strap	May-14	90,124	4,000,339	93	48,131	80,807	3,222,889	9,215	630,054	(0)	93,600	10	5,666
Fuel From Cheu	May-14	8,104	1,063,685	4	287	210	31,869	6,536	863,486	1,354	168,043	0	0
Shrinkage/Loss	May-14	3,811	361,502	0	0	0	0	0	0	3,811	361,502	0	0
Unaccounted*	May-14	22,568	2,274,142	549	91,182	14,682	1,823,682	7,324	355,338	0	1,085	13	2,854

\*Before October 2004, the values are estimated

## Storage Operations

### Inventory (contained helium)

	Government	Private
Beginning inventory	8,314,123	1,689,312
net acceptances +	0	0
redeliveries	0	(87,317)
In Kind Transfers	(18,977)	18,977
Conservation Crude Sales	0	0
Gain/loss	(3,048)	
Ending Inventory	8,292,098	1,620,972
Total Helium in Reservoir	12,329,262	
Total Helium in Storage	9,913,070	
Helium in native gas	2,416,192	

### Crude Helium Pipeline

	Gross	Net Helium	Percent
Beginning inventory	40,149	29,392	73.21%
Measured to Pipeline (Private Plants)	49,768	32,680	65.66%
Measured from Pipeline (Private Plant:	164,496	119,789	72.82%
HEU Production	128,004	95,771	74.82%
Injection	3,012	2,232	74.08%
Production	0	0	
Ending Inventory	45,189	32,775	72.53%
Gain/Loss	(5,223)	(3,048)	

## 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

May - 2014

	NASA*	Navy*	Army*	Air Force*	DOE*	Other Fed*	Subtotal*	In Kind+	Charges Billed (\$) **
<b>In Kind Helium</b>									
<b>AirGas South West, Contract no. INC98-0101</b>									(billed quarterly)
Month									
FYTD									
<b>AirGas North Central, Contract no. INC98-0102</b>									
Month									
FYTD									
<b>AirGas Intermountain, Contract no. INC98-0103</b>									
Month									
FYTD									
<b>Air Liquide Helium America, Inc., Contract no. INC98-0104</b>									
Month									
FYTD									
<b>Air Products, L.P., Contract no. INC98-0105</b>									
Month									
FYTD									
<b>Linde Gas North America, LLC, Contract no. INC98-0106</b>									
Month									
FYTD									
<b>Corp Brothers, Inc., Contract no. INC98-0107</b>									
Month									
FYTD									
<b>FIBA Technologies, Inc., Contract no. INC98-0108</b>									
Month									
FYTD									
<b>General Air Service &amp; Supply Co., Contract no. INC98-0109</b>									
Month									
FYTD									
<b>Praxair, Inc., Contract no. INC98-0112</b>									
Month									
FYTD									
<b>United States Welding, Inc., Contract no. INC98-0113</b>									
Month									
FYTD									
<b>Matheson Tri-Gas, Inc., Contract no. INC98-0114</b>									
Month									
FYTD									
<b>GT &amp; S, Contract no. INC00-0115</b>									
Month									
FYTD									
<b>Global Gases America, Contract no. INC13-0116</b>									
Month									
FYTD									
<b>Total month</b>	0	0	0	0	0	0	0	0	\$0
<b>Total FYTD</b>	21,165	1,958	41	33	4,616	32,406	60,217	59,293	\$4,050,756
<b>Total CYTD</b>	8,796	5	4	19	125	18,393	27,343	26,924	\$1,857,722
<b>Cumulative</b>	1,746,711	108,640	448	271,570	421,558	606,372	3,155,298	3,106,418	\$174,228,056
<b>In Kind Transfers</b>							Month	FYTD	CYTD Cumulative
Transferred							18,977	81,432	51,390 3,097,875
Volume outstanding							8,618		

\* Volumes in Mcf at 14.7 psia &amp; 70°F

+ Volumes in Mcf at 14.65 psia &amp; 60°F

\*\*Rounded to nearest dollar

Table 5 - Conservation Crude Sales/Reserve Sell-down

May - 2014

## Helium &amp; Natural Gas Sales

	Award Volume*	Outstanding*	Sales*	Charges Billed (\$)*** (billed quarterly)	
<b>Conservation Helium</b>					
<b><u>Air Liquide Helium America, Inc.</u></b>					
Month	4,000	(9,333)	9,333	\$886,635	
FYTD	14,667	0	14,667	\$1,393,365	
Cumulative	285,217		285,217	\$20,224,815	
<b><u>Air Products, L.P.</u></b>					
Month	68,040	(64,800)	64,800	\$6,156,000	
FYTD	197,640	68,040	129,600	\$12,312,000	
Cumulative	7,247,035		7,178,995	\$473,365,039	
<b><u>Linde Gas North America, LLC</u></b>					
Month	49,140	(46,800)	46,800	\$4,446,000	
FYTD	142,740	49,140	93,600	\$8,892,000	
Cumulative	5,608,450		5,559,310	\$355,550,088	
<b><u>Keyes Helium Co., LLC</u></b>					
Month	7,560	(7,560)	7,560	\$718,200	
FYTD	21,960	0	48,000	\$4,273,560	
Cumulative	912,700		912,700	\$59,230,063	
<b><u>Matheson Tri-Gas, Inc.</u></b>					
Month	6,000	(10,000)	10,000	\$950,000	
FYTD	14,000	(4,000)	10,000	\$950,000	
Cumulative	24,000		24,000	\$1,917,500	
<b><u>Praxair, Inc.</u></b>					
Month	64,260	0	0	\$0	
FYTD	186,660	64,260	122,400	\$11,628,000	
Cumulative	4,557,565		4,493,305	\$307,442,511	
<b><u>Linde Gas, LLC discontinued 10 2008</u></b>					
Month	0	0	0	\$0	
FYTD	0	0	0	\$0	
Cumulative	200,000		200,000	\$11,035,000	
<b><u>Global Gases America</u></b>					
Month	6,000	(5,333)	5,333	\$506,635	
FYTD	16,667	6,000	10,667	\$1,013,365	
Cumulative	22,967		16,967	\$1,542,565	
<b><u>Airgas Merchant Gases</u></b>					
Month	5,000	(5,333)	5,333	\$506,635	
FYTD	15,667	5,000	10,667	\$1,013,365	
Cumulative	15,667		10,667	\$1,013,365	
Total month	210,000	(149,159)	149,159	\$14,170,105	
Total FYTD	610,001	188,440	439,601	\$41,475,655	
Total CYTD	610,001		417,561	\$39,668,295	
Cumulative	18,873,601		18,681,161	\$1,231,320,945	
<b>Conservation Crude Transfers</b>					
		Month	FYTD	CYTD	Cumulative
Transferred		0	613,012	268,402	18,532,002
Volume outstanding		149,159			

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

## Natural Gas/Liquid Sales

	Natural Gas (Mcf)***	NGLs (gal)	Decatherms	Avg Btu Value	Charges Billed (\$) **
<b><u>El Paso Natural Gas</u></b>					
		Provides Measured Firm/Interruptible Transportation Services			(billed monthly)
Month	268,572	---	293,285	1,092	(\$27,997)
FYTD	2,208,863	---	2,421,300	1,096	(\$223,976)
Cumulative	34,516,552	---	37,913,427	1,098	(\$3,798,574)
<b><u>Minerals Management Service</u></b>					
		No Longer Provides Natural Gas Marketing Services			
Cumulative	---	---	---	---	(\$179,913)
<b><u>Tenaska</u></b>					
		Purchaser - Natural Gas			
Month	---	---	302,000	\$4.175017	\$1,260,855
FYTD	---	---	2,371,200	\$4.512147	\$10,699,204
Cumulative	---	---	37,603,096	\$4.877953	\$182,599,590
<b><u>Sandstone</u></b>					
		Purchaser - Natural Gas Liquids			
Month	---	88,897	9,462	\$12.950047	\$122,533
FYTD	---	755,430	80,325	\$13.271732	\$1,066,052
Cumulative	---	10,305,008	1,098,996	\$12.458498	\$13,691,840
	Natural Gas (Mcf)***	NGLs (gal)	Purchased (Dth's)	\$ Per Unit (\$/Dth)	Total (\$)
<b>Total month</b>	268,572	88,897	311,462	\$4.351707	\$1,355,391
<b>Total FYTD</b>	2,208,863	755,430	2,451,525	\$4.707796	\$11,541,280
<b>Total CYTD</b>	1,350,902	440,795	1,474,252	\$5.262634	\$7,758,448
<b>Cumulative</b>	34,516,552	10,305,008	38,702,092	\$4.990415	\$192,312,942

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

\*\*Rounded to nearest dollar

## Table 6 - Helium Resources Evaluation

May - 2014

All Volumes in Mcf at 14.7 psia & 70°F

<b>Revenue Collected From Federal Leaseholds</b>	Month*	FYTD*
Fee Sales & Royalties	\$62,167	\$8,714,570
Natural Gas Royalties (1)	\$0	\$0
Natural Gas Rentals	\$0	\$0
Other	\$24,112	\$216,406
Revenue Collected from Federal Lease Holds	\$58,857	\$8,738,682

\*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	0
Total Number of Samples Analyzed For Resources Division	0	22
Total Number of Other Samples Analyzed (2)	14	140

### 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

May - 2014

All Volumes in Mcf at 14.65 psia &amp; 60°F

	Metered Gas						Transferred Gas		Stored Helium EOM	Charges Billed (\$)**	
	Gross Gas	Helium %	Helium	Helium			Helium			Month	FYTD
	Month			FYTD	CYTD	Cumulative	Month	Cumulative			
Total All Contracts*											
Crude Acquired	49,768	65.2%	32,472	266,188	166,363	30,968,856	53,822	52,231,681			
Crude Disposed	164,496	72.8%	119,789	1,183,203	679,496	48,856,630	34,845	31,244,217			
Grade-A Rdlvrd	0		0	0	0	1,478,718					
Net/Balance	(114,728)		(87,317)	(917,015)	(513,133)	(19,366,492)	18,977	20,987,464	1,620,972	\$293,452	Storage Fees
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											
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											
Global Gases America, Contract no. 2013-3293											
Crude Acquired											
Crude Disposed											
Net/Balance											

**Government Helium**

Remaining Crude Acquired beginning of the month	8,314,123
Crude Disposed: In Kind Sales transferred for the month	(18,977)
Conservation Crude Sales/Reserve Sell Down transferred (month)	0
Gains and Losses for the month	(3,048)
Net/Balance of Purchased Helium Remaining for Sale	8,292,098

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



Table 8 - Compression &amp; CHEU (Charges &amp; Operations)

May - 2014

Field/CHEU Compressor Operations		Month	FYTD	Cumulative
Spot gas fuel price *	\$ per/MMBTU	\$4.18	\$5.20	\$5.16
Fuel used * (now includes field compression well head)	total MMBTU	10,002	81,595	1,493,549
Field Compression Fuel Cost *	\$dollars	\$0	\$0	\$654,398
CHEU Compression Fuel Cost *	\$dollars	\$24,813	\$180,823	\$3,956,360
CHEU Process Fuel Cost *	\$dollars	\$14,546	\$125,543	\$2,657,683
Rental compressor(s) fuel consumed (well head)	\$dollars	\$2,449	\$61,756	\$188,106
Rental Compressor(s) helium in fuel (Mcf x \$\$)	\$dollars	\$1,615	\$56,330	\$252,120
Rental compressor(s) helium in fuel (Mcf)	Mcf	17	630	3036
#1 Compressor run time *	hours	469	5,374	87,633
#2 Compressor run time *	hours	381	1,941	53,968
#3 Compressor run time *	hours	604	4,033	50,707

\* Field/CHEU Compressor Operations based on May 14 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)	(\$60,945)	(\$487,558)	(\$10,283,852)
Cliffside Refiners, LP, GDA010003 (BLM provided fuel *, labor, supplies, etc.)	\$16,364	\$130,915	\$2,567,739
Net Total - Cliffside Refiners, LP	(\$44,580)	(\$356,642)	(\$7,716,113)

\* BLM provided fuel cost is based on Apr 14 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	744	99.9%	5,717	98.0%	93,003
Producing residue gas	733	98.6%	5,673	97.3%	91,996
Producing helium product	732	98.4%	5,676	97.3%	89,055
Producing natural gas liquids	731	98.2%	5,649	96.9%	87,552

CHEU Charges	Charges Billed (\$)*		
	Month	FYTD	Cumulative
Reservior Management Fees (RMF)	\$154,321	\$1,579,960	\$26,895,364
Total operating costs	(\$879,291)	(\$7,214,933)	(\$114,232,630)
Labor	\$133,564	\$1,068,508	\$11,319,831
Compressor fuel cost Apr 14	\$22,743	\$167,294	\$3,976,700
HEU fuel cost Apr 14	\$14,692	\$117,519	\$2,683,664
Electrical power cost Apr 14	\$122,181	\$1,136,686	\$17,151,118
Other	\$84,252	\$710,054	\$11,241,949
Sub Total - Items provided by BLM	\$377,432	\$3,200,062	\$49,582,617
Total - Cliffside Refiners, LP, GDA030001	(\$501,859)	(\$4,014,872)	(\$64,650,013)

**\*Rounded to nearest dollar**

CHEU Utility Usage	Month	FYTD	Cumulative
Cheu Fuel Gas (Mcf) usage May 14	3,020	24,094	467,403
Cheu Pure Water Usage (gallons) May 14	504	8,302	275,664
Electricity Metered (Kwh) consumed Apr 14	2,208,467	21,908,475	55,463,168