

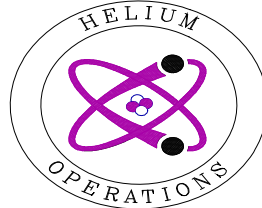
# Bureau of Land Management

## Amarillo Field Office

### Helium Operations



## Statistical Report for December - 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: 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

December - 2014

### Helium Enrichment Unit Operations

#### Gas Processed

	Month			Gross FYTD	Net FYTD
	Gross Volume	Net Helium	Average Percent		
Measured Plant Feed (Mcf*)	458,687	76,883	16.76%	1,414,673	244,097
Helium Product (Mcf*)	100,908	75,323	74.64%	314,133	234,031
Residue Natural Gas (Mcf*)	238,297	0	00.00%	735,145	0

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

### Natural Gas & Liquids Produced

#### Gas Processed

	Month	FYTD
Natural Gas Sales (Mcf***)	234,489	728,119
NGL Sales (gallons)	91,560	260,698

\*\*\* 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Total Withdrawn (Mcf*)	459,854	77,243	16.80%	1,411,973	240,582
Crude Injection (Mcf*)	10,590	7,908	74.67%	46,225	34,247
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	1,788,129	20,051,729
Conservation Crude Sale Volume Transferred (Mcf*)	0	0	1,061,902	1,788,129	20,051,729
Conservation Helium in Storage (EOM) (Mcf*)		6,687,588			

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

#### In Kind Helium

	Month	FYTD	CYTD	Cumulative
Sale Volumes Transferred (Mcf*)	686	64,353	116,989	3,163,474
Sale Volumes Outstanding (Mcf*)	33,087			

\* 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*)	47,472	31,276	65.88%	89,826
Crude Disposed (Mcf*)	137,050	98,482	71.86%	285,454
Net Balance (Mcf*)	(89,578)	(67,206)		(195,628)
Balance of Stored Helium End Of Month (Mcf*)		2,756,887		

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

### Revenue / Charges

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

	Month	FYTD
Storage Fees Billed (\$)	\$334,113	\$679,679
Reservoir Management Fees Billed (\$)	\$193,136	\$473,601

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

	Month	FYTD
Funded by the Refiners (provides for booster compression services)	(\$56,477)	(\$169,431)
Cliffside Refiners, LP, by Agreement #GDA010003 (reimburses BLM for fuel, labor, supplies, etc.)	\$13,232	\$39,695
Net-Total (Funded by the Refiners for compression costs.)	(\$43,245)	(\$129,736)

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

	Month	FYTD
Reservoir Management Fees (RMF)	\$193,136	\$473,601
Total operating costs	(\$794,238)	(\$2,387,077)
Sub Total - Items provided by BLM	\$299,332	\$902,360
Total - Cliffside Refiners, LP, GDA030001	(\$494,906)	(\$1,484,717)

### Conservation Helium - Natural Gas - Liquid Sales

(Charges Billed (\$))

	Month	FYTD
Conservation Crude Helium Sales	\$0	\$0
In Kind Sales	\$2,113,539	\$2,113,539
Natural Gas & Liquid Sales	\$867,574	\$2,923,349

### Helium Resources Evaluation

	Month	FYTD
Revenue Collected from Federal Lease Holds	\$42,788	\$2,698,016
Helium Sample Collection Report for month	Submitted - 0	Received - 0
	Analyzed - 10	

\*Rounded to nearest dollar

Table 2 - Bush Dome Reservoir Operations

December - 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>459,854</b>	<b>217,730,041</b>	<b>77,243</b>	<b>40,821,566</b>	<b>114,525</b>	<b>53,630,961</b>	<b>238,496</b>	<b>110,337,296</b>	<b>25,351</b>	<b>11,124,362</b>	<b>4,240</b>	<b>1,815,856</b>
BIVINS A-3	Dec-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	Dec-14	11,239	11,058,349	8,389	6,581,425	2,526	2,717,748	249	1,555,145	1	153,481	73	50,550
BIVINS A-13	Dec-14	32,682	8,056,127	11,544	4,311,255	8,233	2,073,841	11,346	1,463,822	1,313	161,485	247	45,724
BIVINS A-14	Dec-14	36,066	8,962,200	12,512	5,306,348	9,063	2,274,217	12,752	1,201,780	1,425	128,933	313	50,922
BIVINS A-4	Dec-14	29,838	12,978,194	3,768	2,330,335	7,196	3,145,348	16,932	6,714,733	1,656	673,049	285	114,729
BUSH A-2	Dec-14	42,272	12,530,519	4,815	1,887,859	10,571	3,068,974	23,947	6,776,474	2,650	691,618	288	105,594
Injection	Dec-14	10,590	66,351,628	7,908	47,928,568	2,383	17,093,185	230	777,992	0	32	69	551,852
inj Bivins A-3	Dec-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	Dec-14	(10,503)	(24,289,579)	(7,841)	(17,578,934)	(2,366)	(6,458,018)	(227)	(140,501)	(0)	(70)	(69)	(112,056)
inj Bivins A-13	Dec-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	Dec-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	Dec-14	0	(2,527,801)	0	(1,848,815)	0	(601,353)	0	(42,016)	0	0	0	(35,617)
inj Bush A-2	Dec-14	0	(867,658)	0	(625,258)	0	(215,406)	0	(13,980)	0	0	0	(13,015)
Production	Dec-14	0	1,217,868	0	897,578	0	261,663	0	47,122	0	3,172	0	8,333
BIVINS A-1	Dec-14	0	2,686,608	0	48,896	0	636,995	0	1,798,415	0	175,704	0	26,597
BIVINS A-2	Dec-14	18,339	13,740,475	656	1,871,663	4,263	3,368,566	11,987	7,627,553	1,253	758,898	180	113,795
BIVINS A-5	Dec-14	22,614	15,723,883	4,055	1,986,356	5,743	3,852,123	11,417	8,859,526	1,229	889,603	171	136,275
BIVINS A-7	Dec-14	19,339	11,576,833	6,002	2,713,613	5,015	2,913,506	7,367	5,323,905	827	541,565	129	84,244
BIVINS A-9	Dec-14	26,328	10,067,527	567	190,868	6,805	2,472,908	16,948	6,641,369	1,793	670,216	215	92,167
BIVINS A-11	Dec-14	19,026	6,252,868	560	133,338	4,869	1,554,253	12,130	4,086,856	1,289	419,536	179	58,885
BIVINS A-15	Dec-14	32,225	9,348,055	564	422,357	7,603	2,228,246	21,480	6,001,208	2,192	600,295	386	95,949
BIVINS B-1	Dec-14	32,098	7,575,425	760	289,757	7,833	1,835,653	20,984	4,877,554	2,158	496,999	364	75,461
BIVINS B-2	Dec-14	26,787	6,292,587	510	118,503	6,844	1,575,106	17,174	4,091,199	1,799	420,620	462	87,159
BUSH A-1	Dec-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	Dec-14	26,704	11,737,148	8,964	2,733,721	6,774	2,899,592	9,683	5,450,368	1,064	550,737	220	102,730
BUSH A-4	Dec-14	17,489	8,398,587	1,999	1,554,743	4,456	2,099,303	9,877	4,250,749	1,058	433,049	99	60,743
BUSH A-5	Dec-14	38,795	16,046,168	10,967	3,666,303	9,876	4,025,226	15,966	7,482,947	1,759	759,677	227	112,016
BUSH A-8	Dec-14	16,123	4,035,868	299	73,907	4,019	976,112	10,465	2,667,701	1,083	268,447	258	49,700
BUSH A-9	Dec-14	0	3,860,915	0	105,037	0	930,915	0	2,537,187	0	253,463	0	34,312
BUSH A-11	Dec-14	8,377	4,442,174	182	130,468	2,003	1,062,381	5,517	2,903,793	563	294,788	112	50,743
BUSH B-1	Dec-14	3,426	3,263,825	63	61,290	818	774,418	2,273	2,181,341	241	214,821	32	31,956
FUQUA A-1	Dec-14	0	2,954,098	0	53,854	0	702,798	0	1,975,175	0	193,573	0	28,699
FUQUA A-2	Dec-14	0	132,119	0	2,404	0	31,322	0	88,458	0	8,637	0	1,297
FUQUA A-3	Dec-14	0	9,303,890	0	577,005	0	2,277,682	0	5,790,346	0	583,700	0	75,158
TT Fuel	Dec-14	0	0	0	0	0	0	0	0	0	0	0	0
field-wide pcts				16.80%	18.75%	24.90%	24.63%	51.86%	50.68%	5.51%	5.11%	0.92%	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 Dec-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	5.919	1.103
Injected to Date 2014	(0.111)	(0.082)
Amount of Raw Gas Available to CHEU	96.513	=====> 11.847 total helium in reservoir
Estimated Bottom Hole Pressure	355.409	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

December - 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	Dec-14	458,687	82,909,091	76,883	20,845,153	114,129	20,802,887	238,016	36,649,175	25,409	3,905,346	4,250	706,531
Calculated Feed	Dec-14	459,854	82,528,716	77,241	20,799,152	114,528	20,702,682	238,495	36,418,781	25,351	3,903,774	4,240	704,328
Feed to Box	Dec-14	456,303	82,026,840	77,241	20,799,331	114,528	20,702,764	238,495	36,418,826	25,351	3,903,779	688	202,140
Cheu Product	Dec-14	100,908	26,224,303	75,323	20,547,085	22,744	4,983,364	2,180	510,702	2	520	660	182,632
Residue	Dec-14	238,297	36,729,817	0	1,638	5,293	909,843	212,213	32,591,714	20,792	3,225,379	0	1,243
Cold Box Vent	Dec-14	82,801	14,023,546	54	87,710	71,475	12,442,876	11,262	1,431,963	0	117	10	60,880
Flare/Boot Strap	Dec-14	82,801	4,539,795	54	48,489	71,475	3,697,878	11,262	694,132	0	93,582	10	5,714
Fuel From Cheu	Dec-14	8,333	1,115,895	4	313	216	33,233	6,721	905,598	1,392	176,751	0	0
Shrinkage/Loss	Dec-14	3,165	382,573	0	0	0	0	0	0	3,165	382,573	0	0
Unaccounted*	Dec-14	22,798	2,410,372	1,860	99,369	14,801	1,915,500	6,119	391,415	(0)	1,102	17	2,985

\*Before October 2004, the values are estimated

## Storage Operations

Inventory (contained helium)

	Government	Private
Beginning inventory	6,691,280	2,823,407
net acceptances +	0	0
redeliveries	0	(67,206)
In Kind Transfers	(686)	686
Conservation Crude Sales	0	0
Gain/loss	(3,005)	
Ending Inventory	6,687,588	2,756,887
Total Helium in Reservoir	11,847,423	
Total Helium in Storage	9,444,475	
Helium in native gas	2,402,948	

Crude Helium Pipeline

	Gross	Net Helium	Percent
Beginning inventory	47,065	33,637	71.47%
Measured to Pipeline (Private Plants)	47,472	31,392	66.13%
Measured from Pipeline (Private Plant:	137,071	98,482	71.85%
HEU Production	100,908	75,323	74.64%
Injection	10,590	7,908	74.67%
Production	0	0	
Ending Inventory	43,064	30,956	71.88%
Gain/Loss	(4,721)	(3,005)	

## 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

December - 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>	14,246	1	0	0	0	16,863	31,110	30,631	\$2,113,539
<b>Total FYTD</b>	14,246	1	0	0	0	16,863	31,110	30,631	\$2,113,539
<b>Total CYTD</b>	42,773	39	6	33	320	75,651	118,823	116,992	\$8,072,414
<b>Cumulative</b>	1,780,687	108,674	450	271,584	421,753	663,630	3,246,778	3,196,486	\$180,442,748
<b>In Kind Transfers</b>							Month	FYTD	CYTD Cumulative
Transferred							686	64,353	116,989 3,163,474
Volume outstanding							33,087		

\* 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

December - 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	0	0	0	\$0	
FYTD	0	0	0	\$0	
Cumulative	285,217		285,217	\$20,224,815	
<b><u>Air Products, L.P.</u></b>					
Month	0	0	0	\$0	
FYTD	0	0	0	\$0	
Cumulative	7,710,561		7,710,561	\$532,797,027	
<b><u>Linde Gas North America, LLC</u></b>					
Month	0	0	0	\$0	
FYTD	0	0	0	\$0	
Cumulative	5,890,632		5,890,632	\$390,129,669	
<b><u>Keyes Helium Co., LLC</u></b>					
Month	0	0	0	\$0	
FYTD	0	0	0	\$0	
Cumulative	956,113		956,113	\$63,831,798	
<b><u>Matheson Tri-Gas, Inc.</u></b>					
Month	0	0	0	\$0	
FYTD	0	0	0	\$0	
Cumulative	24,000		24,000	\$1,917,500	
<b><u>Praxair, Inc.</u></b>					
Month	0	0	0	\$0	
FYTD	0	0	0	\$0	
Cumulative	4,946,572		4,946,572	\$356,081,964	
<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	0	0	0	\$0	
FYTD	0	0	0	\$0	
Cumulative	22,967		22,967	\$2,112,565	
<b><u>Airgas Merchant Gases</u></b>					
Month	0	0	0	\$0	
FYTD	0	0	0	\$0	
Cumulative	15,667		15,667	\$1,488,365	
<b>Total month</b>	0	0	0	<b>\$0</b>	
<b>Total FYTD</b>	0	0	0	<b>\$0</b>	
<b>Total CYTD</b>	1,788,129		1,788,129	<b>\$187,966,053</b>	
<b>Cumulative</b>	20,051,729		20,051,729	<b>\$1,379,618,703</b>	
<b>Conservation Crude Transfers</b>					
		Month	FYTD	CYTD	Cumulative
Transferred		0	1,061,902	1,788,129	20,051,729
Volume outstanding		0			

\* 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	234,489	---	257,990	1,100	(\$27,997)
FYTD	728,119	---	797,173	1,095	(\$83,991)
Cumulative	36,123,300	---	39,655,462	1,098	(\$3,996,080)
<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			
				\$/Unit	
Month	---	---	264,600	\$3.174988	\$840,102
FYTD	---	---	802,000	\$3.476548	\$2,788,191
Cumulative	---	---	39,344,363	\$4.825079	\$189,013,093
<b><u>Sandstone</u></b>		Purchaser - Natural Gas Liquids			
Month	---	91,560	9,401	\$5.900319	\$55,469
FYTD	---	260,698	26,173	\$8.373090	\$219,149
Cumulative	---	10,860,926	1,156,845	\$12.375489	\$14,316,523
	Natural Gas (Mcf)***	NGLs (gal)	Purchased (Dth's)	\$/Per Unit (\$/Dth)	Total (\$\$)
<b>Total month</b>	234,489	91,560	274,001	\$3.166316	<b>\$867,574</b>
<b>Total FYTD</b>	728,119	260,698	828,173	\$3.529877	<b>\$2,923,349</b>
<b>Total CYTD</b>	2,957,650	996,713	3,273,368	\$4.459971	<b>\$14,599,128</b>
<b>Cumulative</b>	36,123,300	10,860,926	40,501,208	\$4.937635	<b>\$199,153,622</b>

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

\*\*Rounded to nearest dollar

## Table 6 - Helium Resources Evaluation

December - 2014

All Volumes in Mcf at 14.7 psia & 70°F

<b>Revenue Collected From Federal Leaseholds</b>	Month*	FYTD*
Fee Sales & Royalties	\$42,286	\$2,672,549
Natural Gas Royalties (1)	\$0	\$0
Natural Gas Rentals	\$0	\$0
Other	\$25,467	\$72,210
Revenue Collected from Federal Lease Holds	\$42,788	\$2,698,016

\*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	2	8
Total Number of Samples Analyzed For Resources Division	2	4
Total Number of Other Samples Analyzed (2)	10	28

### U. S. Helium Production

<i>Domestic</i>	FY Volume		CY Volume
2012 Helium Sold	4,725,187		4,623,130
2013 Helium Sold	4,279,765		4,166,708
2014 Helium Sold	3,815,746		3,466,014
2015 Helium Sold	4,559,100		4,644,278
2016 Helium Sold	4,691,100		4,768,537
Estimated Helium Resources as of 12/31/2006 (Mcf)			732,000,000

	FY-2014	FY-2014
<b>U.S. Helium Exports</b> (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

December - 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	47,472	65.9%	31,276	89,826	377,107	31,179,600	83,315	54,039,909			
Crude Disposed	137,050	71.9%	98,482	285,454	1,339,651	49,516,785	82,629	31,467,119		\$334,113	Storage Fees
Grade-A Rdlvrd	0		0	0	0	1,478,718				<u>\$193,136</u>	RMF Fees
Net/Balance	(89,578)		(67,206)	(195,628)	(962,544)	(19,815,903)	686	22,572,790		\$527,249	\$1,153,280
Total Prior Contracts (TERMINATED)											
Crude Acquired				0	0	17,406,129	0	18,196,898	0		
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					
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	6,691,280
Crude Disposed: In Kind Sales transferred for the month	(686)
Conservation Crude Sales/Reserve Sell Down transferred (month)	0
Gains and Losses for the month	(3,005)
Net/Balance of Purchased Helium Remaining for Sale	6,687,588

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

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

December - 2014

Field/CHEU Compressor Operations		Month	FYTD	Cumulative
Spot gas fuel price *	\$ per/MMBTU	\$3.17	\$3.57	\$5.11
Fuel used * (now includes field compression well head)	total MMBTU	9,633	29,501	1,557,558
Field Compression Fuel Cost *	\$dollars	\$0	\$0	\$654,398
CHEU Compression Fuel Cost *	\$dollars	\$19,939	\$63,827	\$4,096,278
CHEU Process Fuel Cost *	\$dollars	\$10,597	\$34,083	\$2,739,580
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	717	2,182	91,646
#2 Compressor run time *	hours	190	856	55,511
#3 Compressor run time *	hours	550	1,348	54,360

\* Field/CHEU Compressor Operations based on Dec 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)	(\$56,477)	(\$169,431)	(\$10,697,062)
Cliffside Refiners, LP, GDA010003 (BLM provided fuel *, labor, supplies, etc.)	\$13,232	\$39,695	\$2,672,892
Net Total - Cliffside Refiners, LP	(\$43,245)	(\$129,736)	(\$8,024,170)

\* BLM provided fuel cost is based on Nov 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	727	97.8%	2,192	99.3%	97,901
Producing residue gas	727	97.8%	2,192	99.3%	96,601
Producing helium product	727	97.8%	2,192	99.3%	93,646
Producing natural gas liquids	727	97.8%	2,192	99.3%	92,262

CHEU Charges	Charges Billed (\$)*		
	Month	FYTD	Cumulative
Reservoir Management Fees (RMF)	\$193,136	\$473,601	\$27,791,948
Total operating costs	(\$794,238)	(\$2,387,077)	(\$120,188,909)
Labor	\$76,760	\$230,279	\$12,084,365
Compressor fuel cost Nov 14	\$22,956	\$66,225	\$4,121,492
HEU fuel cost Nov 14	\$12,054	\$34,964	\$2,769,510
Electrical power cost Nov 14	\$136,456	\$410,433	\$18,150,618
Other	\$51,106	\$160,458	\$11,711,403
Sub Total - Items provided by BLM	\$299,332	\$902,360	\$52,046,743
Total - Cliffside Refiners, LP, GDA030001	(\$494,906)	(\$1,484,717)	(\$68,142,166)

\*Rounded to nearest dollar

CHEU Utility Usage	Month	FYTD	Cumulative
Cheu Fuel Gas (Mcf) usage Dec 14	2,892	8,493	486,720
Cheu Pure Water Usage (gallons) Dec 14	541	1,113	278,090
Electricity Metered (Kwh) consumed Nov 14	2,585,867	7,020,014	73,046,179