

Bureau of Land Management

Amarillo Field Office

Helium Operations

Statistical Report
for
August - 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: December 19, 2014

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

Samuel R. M. Burton

Date: **December 9, 2014**

Table 1 - Summary of Helium Operations

August - 2014

Helium Enrichment Unit Operations

Gas Processed

	Month			Gross FYTD	Net FYTD
	Gross Volume	Net Helium	Average Percent		
Measured Plant Feed (Mcf*)	395,223	65,244	16.51%	5,806,169	1,177,351
Helium Product (Mcf*)	79,400	60,314	75.96%	1,520,800	1,153,020
Residue Natural Gas (Mcf*)	138,641	86	0.06%	2,789,189	93

* Volumes in Mcf at 14.65 psia & 60°F

Natural Gas & Liquids Produced

Gas Processed

	Month	FYTD
Natural Gas Sales (Mcf****)	151,755	2,828,515
NGL Sales (gallons)	35,955	962,357

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

Bush Dome Reservoir Operations

Conservation gases from all sources

	Month			Gross FYTD	Net FYTD
	Gross Volume	Net Helium	Average Percent		
Total Withdrawn (Mcf*)	396,535	66,088	16.67%	5,809,389	1,168,757
Crude Injection (Mcf*)	0	0	00.00%	38,920	28,781
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*)		121,226	752,267	726,227	18,989,827
Conservation Crude Sale Volume Transferred (Mcf*)	116,226	11,000	954,611	610,001	18,873,601
Conservation Helium in Storage (EOM) (Mcf*)		7,939,946			

* Volumes in Mcf at 14.65 psia & 60°F

In Kind Helium

	Month	FYTD	CYTD	Cumulative
Sale Volumes Transferred (Mcf*)	0	82,678	52,636	3,099,121
Sale Volumes Outstanding (Mcf*)	36,538			

* 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*)	46,017	30,584	66.46%	353,669
Crude Disposed (Mcf*)	118,548	85,541	72.16%	1,451,778
Net Balance (Mcf*)	(72,531)	(54,957)		(1,098,109)
Balance of Stored Helium End Of Month (Mcf*)		1,782,723		

* Volumes in Mcf at 14.65 psia & 60°F

Revenue / Charges

Helium Storage Contracts (Charges Billed (\$))

	Month	FYTD
Storage Fees Billed (\$)	\$301,169	\$2,939,462
Reservoir Management Fees Billed (\$)	\$88,085	\$1,876,877

Field Compressor Charges (Charges Billed (\$))

	Month	FYTD
Funded by the Refiners (provides for booster compression services)	(\$60,945)	(\$670,392)
Cliffside Refiners, LP, by Agreement #GDA010003 (reimburses BLM for fuel, labor, supplies, etc.)	\$16,364	\$180,008
Net-Total (Funded by the Refiners for compression costs.)	(\$44,580)	(\$490,383)

Enrichment Unit Charges (Charges Billed (\$))

	Month	FYTD
Reservoir Management Fees (RMF)	\$88,085	\$1,876,877
Total operating costs	(\$894,637)	(\$9,905,057)
Sub Total - Items provided by BLM	\$392,778	\$4,384,608
Total - Cliffside Refiners, LP, GDA030001	(\$501,859)	(\$5,520,448)

Conservation Helium - Natural Gas - Liquid Sales

(Charges Billed (\$))

	Month	FYTD
Conservation Crude Helium Sales	\$16,629,304	\$76,291,759
In Kind Sales	\$0	\$6,063,210
Natural Gas & Liquid Sales	\$535,929	\$14,324,760

Helium Resources Evaluation

	Month	FYTD
Revenue Collected from Federal Lease Holds	\$84,725	\$12,337,082
Helium Sample Collection Report for month	Submitted - 0	Received - 0
	Analyzed - 11	

*Rounded to nearest dollar

Table 2 - Bush Dome Reservoir Operations

August - 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
TOTAL		396,535	215,801,977	66,088	40,478,960	98,565	53,151,142	206,049	109,354,793	22,019	11,019,221	3,814	1,797,861
BIVINS A-3	Aug-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	Aug-14	25,892	11,001,695	16,651	6,543,321	6,288	2,704,349	2,535	1,550,760	238	153,103	179	50,162
BIVINS A-13	Aug-14	28,501	7,920,640	10,154	4,263,210	7,183	2,039,671	9,803	1,416,914	1,145	156,134	216	44,711
BIVINS A-14	Aug-14	27,173	8,782,599	9,601	5,243,380	6,841	2,229,040	9,437	1,138,939	1,059	121,916	235	49,325
BIVINS A-4	Aug-14	19,939	12,863,250	2,506	2,315,822	4,782	3,117,738	11,261	6,649,805	1,185	666,317	205	113,568
BUSH A-2	Aug-14	30,077	12,364,861	3,333	1,869,205	7,522	3,027,575	17,110	6,682,500	1,904	681,128	207	104,454
Injection	Aug-14	0	66,279,809	0	47,875,057	0	17,076,877	0	776,476	0	24	0	551,375
inj Bivins A-3	Aug-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	Aug-14	0	(24,235,446)	0	(17,539,312)	0	(6,445,513)	0	(138,913)	0	(12)	0	(111,697)
inj Bivins A-13	Aug-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	Aug-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	Aug-14	0	(2,527,801)	0	(1,848,815)	0	(601,353)	0	(42,016)	0	0	0	(35,617)
inj Bush A-2	Aug-14	0	(867,658)	0	(625,258)	0	(215,406)	0	(13,980)	0	0	0	(13,015)
Production	Aug-14	0	1,217,868	0	897,578	0	261,663	0	47,122	0	3,172	0	8,333
BIVINS A-1	Aug-14	0	2,686,608	0	48,896	0	636,995	0	1,798,415	0	175,704	0	26,597
BIVINS A-2	Aug-14	17,411	13,663,681	621	1,868,916	4,042	3,350,728	11,368	7,577,380	1,207	753,619	173	113,038
BIVINS A-5	Aug-14	15,668	15,627,701	2,724	1,969,255	3,977	3,827,715	7,982	8,810,879	865	884,318	120	135,535
BIVINS A-7	Aug-14	10,551	11,501,446	3,291	2,690,202	2,736	2,893,961	4,002	5,295,214	452	538,325	70	83,744
BIVINS A-9	Aug-14	24,833	9,975,006	531	188,881	6,420	2,448,993	15,986	6,581,816	1,695	663,902	201	91,416
BIVINS A-11	Aug-14	17,926	6,172,867	526	130,986	4,588	1,533,779	11,429	4,035,855	1,214	414,113	168	58,133
BIVINS A-15	Aug-14	29,773	9,215,586	520	420,039	7,024	2,196,987	19,842	5,912,924	2,031	591,273	355	94,363
BIVINS B-1	Aug-14	30,639	7,442,144	726	286,588	7,474	1,803,161	20,009	4,790,508	2,081	487,945	348	73,941
BIVINS B-2	Aug-14	25,669	6,181,683	489	116,395	6,557	1,546,770	16,457	4,020,103	1,726	413,165	440	85,250
BUSH A-1	Aug-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	Aug-14	16,095	11,624,471	5,308	2,696,068	4,082	2,871,021	5,914	5,409,399	656	546,187	134	101,795
BUSH A-4	Aug-14	13,090	8,326,923	1,471	1,546,548	3,336	2,081,058	7,409	4,210,311	800	428,673	74	60,333
BUSH A-5	Aug-14	24,053	15,895,164	6,850	3,623,355	6,125	3,986,763	9,849	7,420,979	1,089	752,928	140	111,140
BUSH A-8	Aug-14	20,317	3,957,420	377	72,453	5,060	956,565	13,189	2,616,783	1,368	263,169	322	48,451
BUSH A-9	Aug-14	0	3,860,915	0	105,037	0	930,915	0	2,537,187	0	253,463	0	34,312
BUSH A-11	Aug-14	12,256	4,409,747	283	129,748	2,930	1,054,636	8,047	2,882,471	831	292,587	164	50,306
BUSH B-1	Aug-14	6,664	3,249,549	123	61,016	1,594	770,995	4,417	2,171,911	469	213,827	61	31,801
FUQUA A-1	Aug-14	0	2,954,098	0	53,854	0	702,798	0	1,975,175	0	193,573	0	28,699
FUQUA A-2	Aug-14	0	132,119	0	2,404	0	31,322	0	88,458	0	8,637	0	1,297
FUQUA A-3	Aug-14	8	9,303,890	0	577,005	2	2,277,682	5	5,790,346	1	583,700	0	75,158
TT Fuel	Aug-14	174	0	4	0	42	0	114	0	12	0	2	0
field-wide pcts				16.67%	18.76%	24.86%	24.63%	51.96%	50.67%	5.55%	5.11%	0.96%	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-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	3.991	0.760
Injected to Date 2014	(0.039)	(0.029)
Amount of Raw Gas Available to CHEU	98.370	====> 12.137 total helium in reservoir
Estimated Bottom Hole Pressure	362.238	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 - 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	Aug-14	395,223	80,997,127	65,244	20,512,145	106,617	20,327,222	198,336	35,668,363	20,935	3,800,745	4,092	688,652
Calculated Feed	Aug-14	396,708	80,619,467	66,092	20,471,254	98,606	20,226,916	206,163	35,436,253	22,031	3,798,586	3,815	686,459
Feed to Box	Aug-14	393,482	80,132,473	66,092	20,471,433	98,606	20,226,998	206,163	35,436,299	22,031	3,798,591	589	199,152
Cheu Product	Aug-14	79,400	25,795,132	60,314	20,226,356	16,965	4,886,862	1,583	501,724	1	425	537	179,765
Residue	Aug-14	138,641	35,735,696	86	1,638	3,692	886,858	122,777	31,707,406	12,082	3,138,551	4	1,243
Cold Box Vent	Aug-14	45,668	13,683,893	34	87,487	41,199	12,145,864	4,430	1,389,559	(0)	135	5	60,848
Flare/Boot Strap	Aug-14	45,668	4,200,142	34	48,266	41,199	3,400,866	4,430	651,728	(0)	93,600	5	5,681
Fuel From Cheu	Aug-14	4,646	1,083,143	2	297	120	32,381	3,747	879,182	776	171,283	0	0
Shrinkage/Loss	Aug-14	1,924	369,619	0	0	0	0	0	0	1,924	369,619	0	0
Unaccounted*	Aug-14	12,565	2,323,567	663	92,411	7,836	1,856,592	4,057	370,582	0	1,085	9	2,898

*Before October 2004, the values are estimated

Storage Operations

Inventory (contained helium)

	Government	Private
Beginning inventory	7,951,378	1,826,680
net acceptances +	0	0
redeliveries	0	(54,957)
In Kind Transfers	0	0
Conservation Crude Sales	(11,000)	11,000
Gain/loss	(431)	
Ending Inventory	7,939,946	1,782,723
Total Helium in Reservoir	12,136,518	
Total Helium in Storage	9,722,669	
Helium in native gas	2,413,848	

Crude Helium Pipeline

	Gross	Net Helium	Percent
Beginning inventory	31,978	22,974	71.84%
Measured to Pipeline (Private Plants)	46,017	30,652	66.61%
Measured from Pipeline (Private Plant)	118,541	85,541	72.16%
HEU Production	79,400	60,314	75.96%
Injection	0	0	00.00%
Production	0	0	
Ending Inventory	38,656	27,968	72.35%
Gain/Loss	(199)	(431)	

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

These documents have been reviewed.
However due to recycling operations
to maintain minimum flow through
the plant, the actual volumes can't
be verified since there is no meter
on the recycle line,

W.H. Ingram
Lead General Engineer
12/9/2014

Table 4 - In Kind Helium Sales

August - 2014

	NASA*	Navy*	Army*	Air Force*	DOE*	Other Fed*	Subtotal*	In Kind+	Charges Billed (\$) **
In Kind Helium									
AirGas South West, Contract no. INC98-0101									(billed quarterly)
Month									
FYTD									
AirGas North Central, Contract no. INC98-0102									
Month									
FYTD									
AirGas Intermountain, Contract no. INC98-0103									
Month									
FYTD									
Air Liquide Helium America, Inc., Contract no. INC98-0104									
Month									
FYTD									
Air Products, L.P., Contract no. INC98-0105									
Month									
FYTD									
Linde Gas North America, LLC, Contract no. INC98-0106									
Month									
FYTD									
Corp Brothers, Inc., Contract no. INC98-0107									
Month									
FYTD									
FIBA Technologies, Inc., Contract no. INC98-0108									
Month									
FYTD									
General Air Service & Supply Co., Contract no. INC98-0109									
Month									
FYTD									
Praxair, Inc., Contract no. INC98-0112									
Month									
FYTD									
United States Welding, Inc., Contract no. INC98-0113									
Month									
FYTD									
Matheson Tri-Gas, Inc., Contract no. INC98-0114									
Month									
FYTD									
GT & S, Contract no. INC00-0115									
Month									
FYTD									
Global Gases America, Contract no. INC13-0116									
Month									
FYTD									
Total month	0	0	0	0	0	0	0	0	\$0
Total FYTD	30,070	1,975	42	41	4,724	52,990	89,842	88,459	\$6,063,210
Total CYTD	17,701	23	6	28	234	38,977	56,968	56,090	\$3,870,176
Cumulative	1,755,616	108,657	449	271,579	421,666	626,955	3,184,923	3,135,584	\$176,240,510
In Kind Transfers							Month	FYTD	CYTD Cumulative
Transferred							0	82,678	52,636 3,099,121
Volume outstanding							36,538		

* 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

August - 2014

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	14,667	0	14,667	\$1,393,365	
Cumulative	285,217		285,217	\$20,224,815	
<u>Air Products, L.P.</u>					
Month	463,526	(72,813)	72,813	\$11,552,568	
FYTD	661,166	390,713	270,453	\$30,328,368	
Cumulative	7,710,561		7,319,848	\$491,381,407	
<u>Linde Gas North America, LLC</u>					
Month	282,182	0	0	\$0	
FYTD	424,922	282,182	142,740	\$13,560,300	
Cumulative	5,890,632		5,608,450	\$360,218,388	
<u>Keyes Helium Co., LLC</u>					
Month	43,413	(43,413)	43,413	\$4,601,736	
FYTD	65,373	0	91,413	\$8,875,296	
Cumulative	956,113		956,113	\$63,831,798	
<u>Matheson Tri-Gas, Inc.</u>					
Month	0	0	0	\$0	
FYTD	14,000	0	14,000	\$1,330,000	
Cumulative	24,000		24,000	\$1,917,500	
<u>Praxair, Inc.</u>					
Month	369,007	0	0	\$0	
FYTD	575,667	389,007	186,660	\$17,732,700	
Cumulative	4,946,572		4,557,565	\$313,547,211	
<u>Linde Gas, LLC discontinued 10 2008</u>					
Month	0	0	0	\$0	
FYTD	0	0	0	\$0	
Cumulative	200,000		200,000	\$11,035,000	
<u>Global Gases America</u>					
Month	0	0	0	\$0	
FYTD	16,667	0	16,667	\$1,583,365	
Cumulative	22,967		22,967	\$2,112,565	
<u>Airgas Merchant Gases</u>					
Month	0	(5,000)	5,000	\$475,000	
FYTD	15,667	0	15,667	\$1,488,365	
Cumulative	15,667		15,667	\$1,488,365	
Total month	1,158,128	(121,226)	121,226	\$16,629,304	
Total FYTD	1,788,129	1,061,902	752,267	\$76,291,759	
Total CYTD	1,788,129		726,227	\$74,104,399	
Cumulative	20,051,729		18,989,827	\$1,265,757,049	
Conservation Crude Transfers					
		Month	FYTD	CYTD	Cumulative
Transferred		11,000	954,611	610,001	18,873,601
Volume outstanding		116,226			

* 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>					
Month	151,755	---	151,761	1,000	(\$29,524)
FYTD	2,828,515	---	3,083,332	1,090	(\$309,494)
Cumulative	35,136,204	---	38,575,459	1,098	(\$3,884,092)
<u>Minerals Management Service</u>					
Cumulative	---	---	---	---	(\$179,913)
<u>Tenaska</u>					
		Purchaser - Natural Gas		\$/Unit	
Month	---	---	140,833	\$3.666621	\$516,381
FYTD	---	---	3,024,267	\$4.390548	\$13,278,188
Cumulative	---	---	38,256,163	\$4.862096	\$185,178,575
<u>Sandstone</u>					
		Purchaser - Natural Gas Liquids			
Month	---	35,955	3,887	\$12.624672	\$49,072
FYTD	---	962,357	102,494	\$13.230681	\$1,356,065
Cumulative	---	10,511,935	1,121,165	\$12.470826	\$13,981,854
Total month					
	151,755	35,955	144,720	\$3.703216	\$535,929
Total FYTD					
	2,828,515	962,357	3,126,761	\$4.581341	\$14,324,760
Total CYTD					
	1,970,554	647,722	2,149,488	\$4.904390	\$10,541,928
Cumulative					
	35,136,204	10,511,935	39,377,328	\$4.975527	\$195,096,423

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

**Rounded to nearest dollar

Table 6 - Helium Resources Evaluation

August - 2014

All Volumes in Mcf at 14.7 psia & 70°F

Revenue Collected From Federal Leaseholds	Month*	FYTD*
Fee Sales & Royalties	\$79,103	\$12,302,173
Natural Gas Royalties (1)	\$0	\$0
Natural Gas Rentals	\$0	\$0
Other	\$34,909	\$310,321
Revenue Collected from Federal Lease Holds	\$84,725	\$12,337,082

*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	65
Total Number of Samples Analyzed For Resources Division	0	87
Total Number of Other Samples Analyzed (2)	11	188

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
U.S. Helium Exports (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 - 2014

All Volumes in Mcf at 14.65 psia & 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	46,017	66.5%	30,584	353,669	253,844	31,056,337	29,012	52,653,416			
Crude Disposed	118,548	72.2%	85,541	1,451,778	948,071	49,125,205	18,012	31,323,107			
Grade-A Rdlvrd	0		0	0	0	1,478,718					
Net/Balance	(72,531)		(54,957)	(1,098,109)	(694,227)	(19,547,586)	11,000	21,330,309	1,782,723	\$301,169	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	7,951,378
Crude Disposed: In Kind Sales transferred for the month	0
Conservation Crude Sales/Reserve Sell Down transferred (month)	(11,000)
Gains and Losses for the month	(431)
Net/Balance of Purchased Helium Remaining for Sale	7,939,946

*Includes In Kind and Conservation Crude transfers from Government storage

**Rounded to nearest dollar

Table 8 - Compression & CHEU (Charges & Operations)

August - 2014

Field/CHEU Compressor Operations		Month	FYTD	Cumulative
Spot gas fuel price *	\$ per/MMBTU	\$3.67	\$4.97	\$5.15
Fuel used * (now includes field compression well head)	total MMBTU	6,019	106,380	1,518,334
Field Compression Fuel Cost *	\$dollars	\$0	\$0	\$654,398
CHEU Compression Fuel Cost *	\$dollars	\$9,329	\$234,577	\$4,010,114
CHEU Process Fuel Cost *	\$dollars	\$11,208	\$161,879	\$2,694,019
Rental compressor(s) fuel consumed (well head)	\$dollars	\$1,556	\$69,538	\$195,888
Rental Compressor(s) helium in fuel (Mcf x \$\$)	\$dollars	\$1,900	\$63,075	\$258,865
Rental compressor(s) helium in fuel (Mcf)	Mcf	20	701	3107
#1 Compressor run time *	hours	20	6,729	88,988
#2 Compressor run time *	hours	378	2,384	54,411
#3 Compressor run time *	hours	343	5,618	52,292

* Field/CHEU Compressor Operations based on Aug 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)	(\$670,392)	(\$10,466,686)
Cliffside Refiners, LP, GDA010003 (BLM provided fuel *, labor, supplies, etc.)	\$16,364	\$180,008	\$2,616,832
Net Total - Cliffside Refiners, LP	(\$44,580)	(\$490,383)	(\$7,849,854)

* BLM provided fuel cost is based on Jul 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	624	83.8%	7,703	95.8%	94,989
Producing residue gas	379	51.0%	7,366	91.6%	93,689
Producing helium product	371	49.8%	7,355	91.5%	90,734
Producing natural gas liquids	487	65.4%	7,446	92.6%	89,350

CHEU Charges	Charges Billed (\$)*		
	Month	FYTD	Cumulative
Reservoir Management Fees (RMF)	\$88,085	\$1,876,877	\$27,192,281
Total operating costs	(\$894,637)	(\$9,905,057)	(\$116,922,754)
Labor	\$133,564	\$1,469,199	\$11,720,522
Compressor fuel cost Jul 14	\$20,513	\$236,532	\$4,045,938
HEU fuel cost Jul 14	\$11,063	\$157,193	\$2,723,338
Electrical power cost Jul 14	\$151,736	\$1,578,692	\$17,593,123
Other	\$75,902	\$942,993	\$11,474,888
Sub Total - Items provided by BLM	\$392,778	\$4,384,608	\$50,767,164
Total - Cliffside Refiners, LP, GDA030001	(\$501,859)	(\$5,520,448)	(\$66,155,590)

***Rounded to nearest dollar**

CHEU Utility Usage	Month	FYTD	Cumulative
Cheu Fuel Gas (Mcf) usage Aug 14	2,704	32,205	475,514
Cheu Pure Water Usage (gallons) Aug 14	54	9,608	276,971
Electricity Metered (Kwh) consumed Jul 14	2,546,175	30,031,676	63,586,369