

Bureau of Land Management

Amarillo Field Office

Helium Operations



Statistical Report for October - 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

List of Tables

Table 1 - Summary of Helium Operations
Table 2 - Bush Dome Reservoir Operations
Table 3 - Gas Volumes & Inventory
Table 4 - In Kind Helium Sales
Table 5 - Conservation Crude Sales/Reserve Sell-down
Table 5 - Natural Gas/Liquid Sales
Table 6 - Helium Resources Evaluation
Table 7 - Helium Storage Contract Activity
Table 8 - Compression & CHEU (Charges & Operations)

Amarillo, Texas

Compiled by: David V. Reeves

Issued: April 8, 2015

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

Samuel R. M. Burton

Date: *April 8, 2015*

Table 1 - Summary of Helium Operations

October - 2014

Helium Enrichment Unit Operations

Gas Processed	Month			Gross FYTD	Net FYTD
	Gross Volume	Net Helium	Average Percent		
Measured Plant Feed (Mcf*)	503,757	92,555	18.37%	503,757	92,555
Helium Product (Mcf*)	116,469	86,777	74.51%	116,469	86,777
Residue Natural Gas (Mcf*)	258,805	0	00.00%	258,805	0

* Volumes in Mcf at 14.65 psia & 60°F

Natural Gas & Liquids Produced

Gas Processed	Month	FYTD
Natural Gas Sales (Mcf****)	258,797	258,797
NGL Sales (gallons)	81,695	81,695

*** 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Total Withdrawn (Mcf*)	498,289	88,371	17.73%	498,289	88,371
Crude Injection (Mcf*)	20,422	15,045	73.67%	20,422	15,045
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	1,061,902	1,061,902	1,788,129	20,051,729
Conservation Helium in Storage (EOM) (Mcf*)		6,694,132			

* Volumes in Mcf at 14.65 psia & 60°F

In Kind Helium

	Month	FYTD	CYTD	Cumulative
Sale Volumes Transferred (Mcf*)	63,667	63,667	116,303	3,162,788
Sale Volumes Outstanding (Mcf*)	3,142			

* 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*)	44,252	28,947	65.41%	28,947
Crude Disposed (Mcf*)	138,453	100,381	72.50%	100,381
Net Balance (Mcf*)	(94,201)	(71,434)		(71,434)
Balance of Stored Helium End Of Month (Mcf*)		2,880,395		

* Volumes in Mcf at 14.65 psia & 60°F

Revenue / Charges

Helium Storage Contracts (Charges Billed (\$))	Month	FYTD
Storage Fees Billed (\$)	\$1,302	\$1,302
Reservoir Management Fees Billed (\$)	\$123,042	\$123,042

Field Compressor Charges (Charges Billed (\$))

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

Enrichment Unit Charges (Charges Billed (\$))

	Month	FYTD
Reservoir Management Fees (RMF)	\$123,042	\$123,042
Total operating costs	(\$780,869)	(\$780,869)
Sub Total - Items provided by BLM	\$285,963	\$285,963
Total - Cliffside Refiners, LP, GDA030001	(\$494,906)	(\$494,906)

Conservation Helium - Natural Gas - Liquid Sales

(Charges Billed (\$))	Month	FYTD
Conservation Crude Helium Sales	\$0	\$0
In Kind Sales	\$0	\$0
Natural Gas & Liquid Sales	\$1,032,831	\$1,032,831

Helium Resources Evaluation

	Month	FYTD
Revenue Collected from Federal Lease Holds	\$52,503	\$52,503
Helium Sample Collection Report for month	Submitted - 0	Received - 0
	Analyzed - 13	

*Rounded to nearest dollar

Table 2 - Bush Dome Reservoir Operations

October - 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		498,289	216,814,752	88,371	40,669,211	124,114	53,402,980	253,880	109,861,578	27,260	11,073,693	4,663	1,807,291
BIVINS A-3	Oct-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	Oct-14	16,439	11,040,954	11,380	6,568,456	3,917	2,713,821	959	1,554,760	73	153,480	111	50,436
BIVINS A-13	Oct-14	34,227	7,990,895	12,155	4,288,119	8,626	2,057,380	11,809	1,441,189	1,380	158,968	257	45,240
BIVINS A-14	Oct-14	52,448	8,885,361	18,382	5,279,508	13,193	2,254,900	18,349	1,174,787	2,070	125,954	454	50,212
BIVINS A-4	Oct-14	29,174	12,919,972	3,688	2,322,991	7,000	3,131,344	16,456	6,681,793	1,732	669,693	299	114,151
BUSH A-2	Oct-14	41,774	12,446,213	4,673	1,878,297	10,440	3,047,904	23,733	6,728,711	2,641	686,287	287	105,015
Injection	Oct-14	20,422	66,325,825	15,045	47,909,367	4,807	17,087,323	435	777,432	1	26	133	551,679
inj Bivins A-3	Oct-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	Oct-14	(20,422)	(24,263,863)	(14,517)	(17,559,801)	(4,850)	(6,452,167)	(867)	(139,945)	(52)	(64)	(136)	(111,886)
inj Bivins A-13	Oct-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	Oct-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	Oct-14	0	(2,527,801)	0	(1,848,815)	0	(601,353)	0	(42,016)	0	0	0	(35,617)
inj Bush A-2	Oct-14	0	(867,658)	0	(625,258)	0	(215,406)	0	(13,980)	0	0	0	(13,015)
Production	Oct-14	0	1,217,868	0	897,578	0	261,663	0	47,122	0	3,172	0	8,333
BIVINS A-1	Oct-14	0	2,686,608	0	48,896	0	636,995	0	1,798,415	0	175,704	0	26,597
BIVINS A-2	Oct-14	19,835	13,702,452	710	1,870,303	4,608	3,359,732	12,962	7,602,711	1,360	756,286	195	113,420
BIVINS A-5	Oct-14	25,086	15,677,778	4,455	1,978,110	6,366	3,840,421	12,694	8,836,248	1,377	887,079	194	135,921
BIVINS A-7	Oct-14	19,054	11,539,423	5,921	2,702,000	4,941	2,903,808	7,251	5,309,663	816	539,957	126	83,995
BIVINS A-9	Oct-14	23,379	10,024,812	502	189,949	6,041	2,461,865	15,049	6,613,874	1,597	667,304	190	91,819
BIVINS A-11	Oct-14	20,929	6,214,285	615	132,203	5,355	1,544,378	13,343	4,062,261	1,419	416,920	197	58,523
BIVINS A-15	Oct-14	34,173	9,283,320	598	421,224	8,062	2,212,970	22,775	5,958,065	2,329	595,888	409	95,173
BIVINS B-1	Oct-14	34,509	7,510,766	823	288,224	8,413	1,819,887	22,539	4,835,318	2,341	492,615	393	74,723
BIVINS B-2	Oct-14	28,654	6,238,744	545	117,479	7,320	1,561,348	18,369	4,056,683	1,927	417,002	493	86,231
BUSH A-1	Oct-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	Oct-14	29,288	11,682,793	9,776	2,715,510	7,427	2,885,809	10,660	5,430,643	1,183	548,551	243	102,280
BUSH A-4	Oct-14	19,058	8,362,900	2,187	1,550,654	4,852	2,090,216	10,749	4,230,618	1,161	430,872	110	60,539
BUSH A-5	Oct-14	37,902	15,968,523	10,795	3,644,284	9,646	4,005,431	15,522	7,450,982	1,719	756,261	220	111,565
BUSH A-8	Oct-14	21,226	3,999,747	393	73,237	5,287	967,109	13,778	2,644,258	1,430	266,019	338	49,124
BUSH A-9	Oct-14	0	3,860,915	0	105,037	0	930,915	0	2,537,187	0	253,463	0	34,312
BUSH A-11	Oct-14	7,578	4,425,647	169	130,106	1,810	1,058,433	4,983	2,892,919	514	293,669	102	50,520
BUSH B-1	Oct-14	3,557	3,257,023	77	61,165	855	772,795	2,333	2,176,828	243	214,343	49	31,893
FUQUA A-1	Oct-14	0	2,954,098	0	53,854	0	702,798	0	1,975,175	0	193,573	0	28,699
FUQUA A-2	Oct-14	0	132,119	0	2,404	0	31,322	0	88,458	0	8,637	0	1,297
FUQUA A-3	Oct-14	0	9,303,890	0	577,005	0	2,277,682	0	5,790,346	0	583,700	0	75,158
TT Fuel	Oct-14	0	0	0	0	0	0	0	0	0	0	0	0
field-wide pct's				17.73%	18.76%	24.91%	24.63%	50.95%	50.67%	5.47%	5.11%	0.94%	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 Oct-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	5.004	0.951
Injected to Date 2014	(0.085)	(0.063)
Amount of Raw Gas Available to CHEU	97.403	=====> 11.981 total helium in reservoir
Estimated Bottom Hole Pressure	358.682	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

October - 2014

Crude Helium Enrichment Unit Operations

		Gross Withdrawal		Net Helium Withdrawal		Nitrogen		Methane		Ethane plus		Other (CO ₂ , Ar, H ₂)	
		Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative
Measured Feed	Oct-14	503,757	81,998,176	92,555	20,693,611	125,073	20,576,083	254,461	36,175,684	26,979	3,854,810	4,689	697,988
Calculated Feed	Oct-14	498,289	81,615,032	87,843	20,646,944	124,157	20,475,072	254,312	35,944,026	27,311	3,853,207	4,666	695,782
Feed to Box	Oct-14	494,413	81,120,296	87,843	20,647,123	124,157	20,475,154	254,312	35,944,072	27,311	3,853,212	790	200,735
Cheu Product	Oct-14	116,469	26,026,639	86,777	20,399,832	26,518	4,938,641	2,403	506,429	0	429	771	181,308
Residue	Oct-14	258,805	36,253,477	0	1,638	6,070	899,191	230,092	32,167,630	22,643	3,183,775	0	1,243
Cold Box Vent	Oct-14	87,422	13,858,644	57	87,605	76,799	12,300,417	10,560	1,409,624	0	135	6	60,864
Flare/Boot Strap	Oct-14	87,422	4,374,893	57	48,384	76,799	3,555,419	10,560	671,793	0	93,599	6	5,697
Fuel From Cheu	Oct-14	8,045	1,099,455	4	304	208	32,808	6,488	892,339	1,344	174,004	0	0
Shrinkage/Loss	Oct-14	3,324	376,447	0	0	0	0	0	0	3,324	376,447	0	0
Unaccounted*	Oct-14	20,349	2,365,299	1,005	94,528	14,562	1,886,150	4,768	380,615	(0)	1,085	13	2,922

*Before October 2004, the values are estimated

Storage Operations

Inventory (contained helium)

	Government	Private
Beginning inventory	7,823,054	1,826,260
net acceptances + redeliveries	0	0
	0	(71,434)
In Kind Transfers	(63,667)	63,667
Conservation Crude Sales	(1,061,902)	1,061,902
Gain/loss	(3,352)	
Ending Inventory	6,694,132	2,880,395
Total Helium in Reservoir	11,980,576	
Total Helium in Storage	9,574,527	
Helium in native gas	2,406,048	

Crude Helium Pipeline

	Gross	Net Helium	Percent
Beginning inventory	48,039	35,311	73.51%
Measured to Pipeline (Private Plants)	44,252	29,112	65.79%
Measured from Pipeline (Private Plant)	138,453	100,381	72.50%
HEU Production	116,469	86,777	74.51%
Injection	20,422	15,045	73.67%
Production	0	0	
Ending Inventory	44,850	32,422	72.29%
Gain/Loss	(5,035)	(3,352)	

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

October - 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	0	0	0	0	0	0	0	0	\$0	
Total CYTD	28,526	39	6	33	320	58,788	87,713	86,361	\$5,958,875	
Cumulative	1,766,441	108,673	450	271,584	421,753	646,766	3,215,667	3,165,855	\$178,329,209	
In Kind Transfers							Month	FYTD	CYTD	Cumulative
Transferred							63,667	63,667	116,303	3,162,788
Volume outstanding							3,142			

* 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

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

* Volumes in Mcf at 14.65 psia & 60°F

Natural Gas/Liquid Sales

	Natural Gas (Mcf)***	NGLs (gal)	Decatherms	Avg Btu Value	Charges Billed (\$) ** (billed monthly)
<u>El Paso Natural Gas</u>					
		Provides Measured Firm/Interruptible Transportation Services			
Month	258,797	---	280,825	1,085	(\$27,997)
FYTD	258,797	---	280,825	1,085	(\$27,997)
Cumulative	35,653,978	---	39,139,114	1,098	(\$3,940,086)
<u>Minerals Management Service</u>					
		No Longer Provides Natural Gas Marketing Services			
Cumulative	---	---	---	---	(\$179,913)
<u>Tenaska</u>					
		Purchaser - Natural Gas		\$/Unit	
Month	---	---	279,300	\$3.483940	\$973,064
FYTD	---	---	279,300	\$3.483940	\$973,064
Cumulative	---	---	38,821,663	\$4.843289	\$187,197,966
<u>Sandstone</u>					
		Purchaser - Natural Gas Liquids			
Month	---	81,695	7,447	\$11.785032	\$87,763
FYTD	---	81,695	7,447	\$11.785032	\$87,763
Cumulative	---	10,681,923	1,138,119	\$12.463668	\$14,185,137
	Natural Gas (Mcf)***	NGLs (gal)	Purchased (Dth's)	\$/Per Unit (\$/Dth)	Total (\$)
Total month	258,797	81,695	286,747	\$3.601888	\$1,032,831
Total FYTD	258,797	81,695	286,747	\$3.601888	\$1,032,831
Total CYTD	2,488,328	817,710	2,731,942	\$4.651859	\$12,708,609
Cumulative	35,653,978	10,681,923	39,959,782	\$4.957226	\$197,263,103

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

**Rounded to nearest dollar

Table 6 - Helium Resources Evaluation

October - 2014

All Volumes in Mcf at 14.7 psia & 70°F

Revenue Collected From Federal Leaseholds	Month*	FYTD*
Fee Sales & Royalties	\$30,726	\$30,726
Natural Gas Royalties (1)	\$0	\$0
Natural Gas Rentals	\$0	\$0
Other	\$21,777	\$21,777
Revenue Collected from Federal Lease Holds	\$52,503	\$52,503

*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	4	4
Total Number of Samples Analyzed For Resources Division	0	0
Total Number of Other Samples Analyzed (2)	13	13

U. S. Helium Production

<i>Domestic</i>	FY Volume	CY Volume
2012 Helium Sold	4,995,600	4,965,176
2013 Helium Sold	4,771,200	4,668,286
2014 Helium Sold	4,325,600	4,238,415
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-2016	CY-2016
U.S. Helium Exports (3)	2,966,225	3,027,731

(1) Includes drip gas sales & other miscellaneous gas sales.

(2) Includes pipeline, field survey, and other requested analyses.

(3) Data from Department of Commerce - Bureau of the Census.

Table 7 - Helium Storage Contract Activity

October - 2014

All Volumes in Mcf at 14.65 psia & 60°F

	Metered Gas					Transferred Gas Helium		Stored Helium EOM	Charges Billed (\$)**		
	Gross Gas	Helium %	Helium	Helium		Month	Cumulative		Month	FYTD	
	Month		FYTD	CYTD	Cumulative						
Total All Contracts*											
Crude Acquired	44,252	65.4%	28,947	28,947	316,228	31,118,721	1,140,581	53,936,913			
Crude Disposed	138,453	72.5%	100,381	100,381	1,154,578	49,331,712	15,012	31,364,809	\$1,302	Storage Fees	
Grade-A Rdlvrd	0		0	0	0	1,478,718			<u>\$123,042</u>	RMF Fees	
Net/Balance	(94,201)		(71,434)	(71,434)	(838,350)	(19,691,709)	1,125,569	22,572,104	2,880,395	\$124,344	\$124,344
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	7,823,054
Crude Disposed: In Kind Sales transferred for the month	(63,667)
Conservation Crude Sales/Reserve Sell Down transferred (montl	(1,061,902)
Gains and Losses for the month	(3,352)
Net/Balance of Purchased Helium Remaining for Sale	6,694,132

*Includes In Kind and Conservation Crude transfers from Government storage

**Rounded to nearest dollar

Table 8 - Compression & CHEU (Charges & Operations)

October - 2014

Field/CHEU Compressor Operations		Month	FYTD	Cumulative
Spot gas fuel price *	\$ per/MMBTU	\$3.48	\$3.75	\$5.13
Fuel used * (now includes field compression well head)	total MMBTU	10,298	10,298	1,538,355
Field Compression Fuel Cost *	\$dollars	\$0	\$0	\$654,398
CHEU Compression Fuel Cost *	\$dollars	\$20,932	\$20,932	\$4,053,383
CHEU Process Fuel Cost *	\$dollars	\$11,432	\$11,432	\$2,716,929
Rental compressor(s) fuel consumed (well head)	\$dollars	\$3,473	\$3,473	\$201,132
Rental Compressor(s) helium in fuel (Mcf x \$\$)	\$dollars	\$2,756	\$2,756	\$263,317
Rental compressor(s) helium in fuel (Mcf)	Mcf	26	26	3149
#1 Compressor run time *	hours	744	744	90,208
#2 Compressor run time *	hours	0	0	54,655
#3 Compressor run time *	hours	743	743	53,755

* Field/CHEU Compressor Operations based on Oct 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)	(\$56,477)	(\$10,584,107)
Cliffside Refiners, LP, GDA010003 (BLM provided fuel *, labor, supplies, etc.)	\$13,232	\$13,232	\$2,646,428
Net Total - Cliffside Refiners, LP	(\$43,245)	(\$43,245)	(\$7,937,679)

* BLM provided fuel cost is based on Sep 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	100.0%	744	100.0%	96,453
Producing residue gas	744	100.0%	744	100.0%	95,153
Producing helium product	744	100.0%	744	100.0%	92,198
Producing natural gas liquids	744	100.0%	744	100.0%	90,814

CHEU Charges	Charges Billed (\$)*		
	Month	FYTD	Cumulative
Reservoir Management Fees (RMF)	\$123,042	\$123,042	\$27,441,390
Total operating costs	(\$780,869)	(\$780,869)	(\$118,582,701)
Labor	\$76,760	\$76,760	\$11,930,845
Compressor fuel cost Sep 14	\$22,337	\$22,337	\$4,077,604
HEU fuel cost Sep 14	\$11,478	\$11,478	\$2,746,024
Electrical power cost Sep 14	\$122,093	\$122,093	\$17,862,278
Other	\$53,295	\$53,295	\$11,604,240
Sub Total - Items provided by BLM	\$285,963	\$285,963	\$51,430,346
Total - Cliffside Refiners, LP, GDA030001	(\$494,906)	(\$494,906)	(\$67,152,355)

***Rounded to nearest dollar**

CHEU Utility Usage	Month	FYTD	Cumulative
Cheu Fuel Gas (Mcf) usage Oct 14	2,842	2,842	481,069
Cheu Pure Water Usage (gallons) Oct 14	15	15	276,992
Electricity Metered (Kwh) consumed Sep 14	1,838,601	1,838,601	67,864,766