

Bureau of Land Management

Amarillo Field Office

Helium Operations



Statistical Report for September - 2014



Distribution:

Fluid Minerals Group Manager, Washington Office
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-Federal Leased Lands
-Resources Evaluation & Gas Analysis
-Division Of Helium Operations, -
Engineering and Technical Support

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Amarillo, Texas
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Wesley W. Ingram

Date: *December 30, 2014*

Table 1 - Summary of Helium Operations

September - 2014

Helium Enrichment Unit Operations

Gas Processed	Month			Gross FYTD	Net FYTD
	Gross Volume	Net Helium	Average Percent		
Measured Plant Feed (Mcf*)	497,291	88,911	17.88%	6,303,460	1,266,262
Helium Product (Mcf*)	115,038	86,699	75.37%	1,635,838	1,239,718
Residue Natural Gas (Mcf*)	258,977	0	00.00%	3,048,166	93

* Volumes in Mcf at 14.65 psia & 60°F

Natural Gas & Liquids Produced

Gas Processed	Month	FYTD
Natural Gas Sales (Mcf****)	258,977	3,087,492
NGL Sales (gallons)	88,293	1,050,650

*** 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Total Withdrawn (Mcf*)	514,486	101,880	19.80%	6,323,876	1,270,637
Crude Injection (Mcf*)	25,594	19,264	75.27%	64,514	48,045
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*)		1,061,902	1,814,169	1,788,129	20,051,729
Conservation Crude Sale Volume Transferred (Mcf*)	1,061,902	116,226	1,070,837	726,227	18,989,827
Conservation Helium in Storage (EOM) (Mcf*)		7,823,054			

* 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*)	66,809			

* 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*)	49,328	33,437	67.79%	387,106
Crude Disposed (Mcf*)	143,956	106,126	73.72%	1,557,904
Net Balance (Mcf*)	(94,628)	(72,689)		(1,170,798)
Balance of Stored Helium End Of Month (Mcf*)		1,826,260		

* Volumes in Mcf at 14.65 psia & 60°F

Revenue / Charges

Helium Storage Contracts (Charges Billed (\$))	Month	FYTD
Storage Fees Billed (\$)	\$1,480	\$2,940,942
Reservoir Management Fees Billed (\$)	\$126,067	\$2,002,943

Field Compressor Charges (Charges Billed (\$))

	Month	FYTD
Funded by the Refiners (provides for booster compression services)	(\$60,945)	(\$731,336)
Cliffside Refiners, LP, by Agreement #GDA010003 (reimburses BLM for fuel, labor, supplies, etc.)	\$16,364	\$196,373
Net-Total (Funded by the Refiners for compression costs.)	(\$44,580)	(\$534,964)

Enrichment Unit Charges (Charges Billed (\$))

	Month	FYTD
Reservoir Management Fees (RMF)	\$126,067	\$2,002,943
Total operating costs	(\$879,078)	(\$10,784,135)
Sub Total - Items provided by BLM	\$377,219	\$4,761,827
Total - Cliffside Refiners, LP, GDA030001	(\$501,859)	(\$6,022,307)

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

	Month	FYTD
Conservation Crude Helium Sales	\$113,861,654	\$190,153,413
In Kind Sales	\$2,088,699	\$8,151,909
Natural Gas & Liquid Sales	\$1,133,850	\$15,458,610

Helium Resources Evaluation

	Month	FYTD
Revenue Collected from Federal Lease Holds	\$2,607,481	\$14,944,563
Helium Sample Collection Report for month	Submitted - 0	Received - 0
		Analyzed - 13

*Rounded to nearest dollar

Table 2 - Bush Dome Reservoir Operations

September - 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		514,486	216,316,464	101,880	40,580,840	127,723	53,278,866	252,905	109,607,698	27,211	11,046,432	4,767	1,802,628
BIVINS A-3	Sep-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	Sep-14	22,819	11,024,514	13,755	6,557,076	5,556	2,709,905	3,042	1,553,802	304	153,407	163	50,325
BIVINS A-13	Sep-14	36,029	7,956,668	12,753	4,275,963	9,083	2,048,754	12,467	1,429,381	1,454	157,588	271	44,982
BIVINS A-14	Sep-14	50,314	8,832,914	17,747	5,261,127	12,667	2,241,707	17,499	1,156,438	1,969	123,884	433	49,757
BIVINS A-4	Sep-14	27,548	12,890,798	3,481	2,319,303	6,607	3,124,344	15,532	6,665,337	1,645	667,962	284	113,852
BUSH A-2	Sep-14	39,578	12,404,439	4,420	1,873,625	9,889	3,037,463	22,478	6,704,978	2,518	683,645	273	104,728
Injection	Sep-14	25,594	66,305,403	19,264	47,894,321	5,639	17,082,516	520	776,997	1	25	170	551,545
inj Bivins A-3	Sep-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	Sep-14	(7,995)	(24,243,441)	(5,972)	(17,545,284)	(1,805)	(6,447,318)	(164)	(139,077)	(0)	(13)	(53)	(111,750)
inj Bivins A-13	Sep-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	Sep-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	Sep-14	0	(2,527,801)	0	(1,848,815)	0	(601,353)	0	(42,016)	0	0	0	(35,617)
inj Bush A-2	Sep-14	0	(867,658)	0	(625,258)	0	(215,406)	0	(13,980)	0	0	0	(13,015)
Production	Sep-14	0	1,217,868	0	897,578	0	261,663	0	47,122	0	3,172	0	8,333
BIVINS A-1	Sep-14	0	2,686,608	0	48,896	0	636,995	0	1,798,415	0	175,704	0	26,597
BIVINS A-2	Sep-14	18,936	13,682,617	676	1,869,592	4,397	3,355,125	12,368	7,589,748	1,307	754,926	188	113,225
BIVINS A-5	Sep-14	24,991	15,652,693	4,400	1,973,655	6,340	3,834,055	12,674	8,823,553	1,384	885,702	192	135,727
BIVINS A-7	Sep-14	18,922	11,520,368	5,877	2,696,079	4,906	2,898,867	7,198	5,302,412	816	539,141	125	83,869
BIVINS A-9	Sep-14	26,427	10,001,433	567	189,447	6,831	2,455,824	17,010	6,598,825	1,805	665,707	214	91,630
BIVINS A-11	Sep-14	20,489	6,193,356	602	131,588	5,244	1,539,023	13,063	4,048,918	1,388	415,501	193	58,326
BIVINS A-15	Sep-14	33,561	9,249,148	587	420,626	7,921	2,204,909	22,366	5,935,290	2,286	593,559	401	94,764
BIVINS B-1	Sep-14	34,113	7,476,257	812	287,401	8,312	1,811,474	22,270	4,812,778	2,329	490,274	389	74,330
BIVINS B-2	Sep-14	28,408	6,210,091	540	116,935	7,258	1,554,028	18,211	4,038,314	1,910	415,075	489	85,739
BUSH A-1	Sep-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	Sep-14	29,034	11,653,505	9,666	2,705,734	7,361	2,878,382	10,583	5,419,983	1,182	547,369	242	102,037
BUSH A-4	Sep-14	16,919	8,343,842	1,919	1,548,467	4,306	2,085,365	9,558	4,219,869	1,039	429,712	97	60,430
BUSH A-5	Sep-14	35,457	15,930,622	10,134	3,633,489	9,022	3,995,785	14,481	7,435,460	1,614	754,542	206	111,345
BUSH A-8	Sep-14	21,101	3,978,521	391	72,843	5,257	961,822	13,698	2,630,480	1,420	264,589	336	48,786
BUSH A-9	Sep-14	0	3,860,915	0	105,037	0	930,915	0	2,537,187	0	253,463	0	34,312
BUSH A-11	Sep-14	8,322	4,418,070	190	129,937	1,987	1,056,623	5,465	2,887,936	568	293,155	113	50,418
BUSH B-1	Sep-14	3,917	3,253,467	72	61,088	945	771,940	2,584	2,174,495	273	214,100	42	31,844
FUQUA A-1	Sep-14	0	2,954,098	0	53,854	0	702,798	0	1,975,175	0	193,573	0	28,699
FUQUA A-2	Sep-14	0	132,119	0	2,404	0	31,322	0	88,458	0	8,637	0	1,297
FUQUA A-3	Sep-14	0	9,303,890	0	577,005	0	2,277,682	0	5,790,346	0	583,700	0	75,158
TT Fuel	Sep-14	0	0	0	0	0	0	0	0	0	0	0	0
field-wide pct's				19.80%	18.76%	24.83%	24.63%	49.16%	50.67%	5.29%	5.11%	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 Sep-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	4.506	0.862
Injected to Date 2014	(0.065)	(0.048)
Amount of Raw Gas Available to CHEU	97.881	=====> 12.054 total helium in reservoir
Estimated Bottom Hole Pressure	360.440	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

September - 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	Sep-14	497,291	81,494,418	88,911	20,601,056	123,788	20,451,010	252,860	35,921,223	27,086	3,827,831	4,646	693,298
Calculated Feed	Sep-14	497,276	81,116,743	87,848	20,559,102	124,000	20,350,915	253,461	35,689,714	27,309	3,825,896	4,657	691,116
Feed to Box	Sep-14	493,410	80,625,883	87,848	20,559,280	124,000	20,350,997	253,461	35,689,760	27,309	3,825,901	792	199,944
Cheu Product	Sep-14	115,038	25,910,170	86,699	20,313,055	25,261	4,912,123	2,303	504,026	3	429	772	180,537
Residue	Sep-14	258,977	35,994,673	0	1,638	6,263	893,121	230,132	31,937,537	22,582	3,161,133	0	1,243
Cold Box Vent	Sep-14	87,329	13,771,222	61	87,548	77,754	12,223,618	9,505	1,399,064	(0)	135	10	60,857
Flare/Boot Strap	Sep-14	87,329	4,287,471	61	48,327	77,754	3,478,620	9,505	661,233	(0)	93,599	10	5,691
Fuel From Cheu	Sep-14	8,267	1,091,410	4	300	218	32,599	6,668	885,851	1,376	172,659	0	0
Shrinkage/Loss	Sep-14	3,505	373,124	0	0	0	0	0	0	3,505	373,124	0	0
Unaccounted*	Sep-14	21,384	2,344,951	1,112	93,523	14,996	1,871,587	5,265	375,846	0	1,085	11	2,908

*Before October 2004, the values are estimated

Storage Operations

Inventory (contained helium)

	Government	Private
Beginning inventory	7,939,946	1,782,723
net acceptances + redeliveries	0	0
In Kind Transfers	0	0
Conservation Crude Sales	(116,226)	116,226
Gain/loss	(666)	
Ending Inventory	7,823,054	1,826,260
Total Helium in Reservoir	12,053,901	
Total Helium in Storage	9,649,314	
Helium in native gas	2,404,588	

Crude Helium Pipeline

	Gross	Net Helium	Percent
Beginning inventory	38,656	27,968	72.35%
Measured to Pipeline (Private Plants)	49,328	33,473	67.86%
Measured from Pipeline (Private Plant:	143,501	106,126	73.95%
HEU Production	115,038	86,699	75.37%
Injection	25,594	19,264	75.27%
Production	0	0	
Ending Inventory	48,039	35,311	73.51%
Gain/Loss	(3,764)	(666)	

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

September - 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	10,825	16	0	5	87	19,811	30,745	30,271	\$2,088,699	
Total FYTD	40,895	1,991	43	46	4,811	72,801	120,587	118,730	\$8,151,909	
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							0	82,678	52,636	3,099,121
Volume outstanding							66,809			

* 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

September - 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	0	(390,713)	390,713	\$41,415,620	
FYTD	661,166	0	661,166	\$71,743,988	
Cumulative	7,710,561		7,710,561	\$532,797,027	
<u>Linde Gas North America, LLC</u>					
Month	0	(282,182)	282,182	\$29,911,281	
FYTD	424,922	0	424,922	\$43,471,581	
Cumulative	5,890,632		5,890,632	\$390,129,669	
<u>Keyes Helium Co., LLC</u>					
Month	0	0	0	\$0	
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	0	(389,007)	389,007	\$42,534,753	
FYTD	575,667	0	575,667	\$60,267,453	
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	16,667	0	16,667	\$1,583,365	
Cumulative	22,967		22,967	\$2,112,565	
<u>Airgas Merchant Gases</u>					
Month	0	0	0	\$0	
FYTD	15,667	0	15,667	\$1,488,365	
Cumulative	15,667		15,667	\$1,488,365	
Total month	0	(1,061,902)	1,061,902	\$113,861,654	
Total FYTD	1,788,129	0	1,814,169	\$190,153,413	
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		116,226	1,070,837	726,227	18,989,827
Volume outstanding		1,061,902			

* 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	258,977	---	282,830	1,092	(\$27,997)
FYTD	3,087,492	---	3,366,162	1,090	(\$337,491)
Cumulative	35,395,181	---	38,858,289	1,098	(\$3,912,089)
<u>Minerals Management Service</u>					
		No Longer Provides Natural Gas Marketing Services			
Cumulative	---	---	---	---	(\$179,913)
<u>Tenaska</u>					
		Purchaser - Natural Gas		\$\$/Unit	
Month	---	---	286,200	\$3.655928	\$1,046,327
FYTD	---	---	3,310,467	\$4.327038	\$14,324,515
Cumulative	---	---	38,542,363	\$4.853139	\$186,224,901
<u>Sandstone</u>					
		Purchaser - Natural Gas Liquids			
Month	---	88,293	9,507	\$12.151102	\$115,521
FYTD	---	1,050,650	112,001	\$13.139043	\$1,471,586
Cumulative	---	10,600,228	1,130,672	\$12.468138	\$14,097,374
	Natural Gas (Mcf)***	NGLs (gal)	Purchased (Dth's)	\$\$ Per Unit (\$\$/Dth)	Total (\$\$)
Total month	258,977	88,293	295,707	\$3.834370	\$1,133,850
Total FYTD	3,087,492	1,050,650	3,422,468	\$4.516802	\$15,458,610
Total CYTD	2,229,531	736,015	2,445,195	\$4.774989	\$11,675,778
Cumulative	35,395,181	10,600,228	39,673,035	\$4.967022	\$196,230,273

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

**Rounded to nearest dollar

Table 6 - Helium Resources Evaluation

September - 2014

All Volumes in Mcf at 14.7 psia & 70°F

Revenue Collected From Federal Leaseholds	Month*	FYTD*
Fee Sales & Royalties	\$2,642,391	\$14,944,563
Natural Gas Royalties (1)	\$0	\$0
Natural Gas Rentals	\$0	\$0
Other	\$29,787	\$340,107
Revenue Collected from Federal Lease Holds	\$2,607,481	\$14,944,563

*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	69
Total Number of Samples Analyzed For Resources Division	4	91
Total Number of Other Samples Analyzed (2)	13	201

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

September - 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	49,328	67.8%	33,437	387,106	287,281	31,089,774	142,916	52,796,332			
Crude Disposed	143,956	73.7%	106,126	1,557,904	1,054,197	49,231,331	26,690	31,349,797	\$1,480	Storage Fees	
Grade-A Rdlvrd	0		0	0	0	1,478,718			\$126,067	RMF Fees	
Net/Balance	(94,628)		(72,689)	(1,170,798)	(766,916)	(19,620,275)	116,226	21,446,535	1,826,260	\$127,546	\$4,943,885
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		7,939,946
Crude Disposed: In Kind Sales transferred for the month		0
Conservation Crude Sales/Reserve Sell Down transferred (montl		(116,226)
Gains and Losses for the month		(666)
Net/Balance of Purchased Helium Remaining for Sale		7,823,054

*Includes In Kind and Conservation Crude transfers from Government storage

**Rounded to nearest dollar

Table 8 - Compression & CHEU (Charges & Operations) September - 2014

Field/CHEU Compressor Operations		Month	FYTD	Cumulative
Spot gas fuel price *	\$ per/MMBTU	\$3.66	\$4.88	\$5.14
Fuel used * (now includes field compression well head)	total MMBTU	9,723	116,103	1,528,057
Field Compression Fuel Cost *	\$dollars	\$0	\$0	\$654,398
CHEU Compression Fuel Cost *	\$dollars	\$22,337	\$256,914	\$4,032,451
CHEU Process Fuel Cost *	\$dollars	\$11,478	\$173,357	\$2,705,497
Rental compressor(s) fuel consumed (well head)	\$dollars	\$1,771	\$71,309	\$197,659
Rental Compressor(s) helium in fuel (Mcf x \$\$)	\$dollars	\$1,696	\$64,771	\$260,561
Rental compressor(s) helium in fuel (Mcf)	Mcf	16	717	3123
#1 Compressor run time *	hours	476	7,205	89,464
#2 Compressor run time *	hours	244	2,628	54,655
#3 Compressor run time *	hours	720	6,338	53,012

* Field/CHEU Compressor Operations based on Sep 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)	(\$731,336)	(\$10,527,630)
Cliffside Refiners, LP, GDA010003 (BLM provided fuel *, labor, supplies, etc.)	\$16,364	\$196,373	\$2,633,196
Net Total - Cliffside Refiners, LP	(\$44,580)	(\$534,964)	(\$7,894,434)

* BLM provided fuel cost is based on Aug 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	720	100.0%	8,423	96.1%	95,709
Producing residue gas	720	100.0%	8,086	92.3%	94,409
Producing helium product	720	100.0%	8,075	92.2%	91,454
Producing natural gas liquids	720	100.0%	8,166	93.2%	90,070

CHEU Charges	Charges Billed (\$)*		
	Month	FYTD	Cumulative
Reservoir Management Fees (RMF)	\$126,067	\$2,002,943	\$27,318,347
Total operating costs	(\$879,078)	(\$10,784,135)	(\$117,801,832)
Labor	\$133,564	\$1,602,763	\$11,854,086
Compressor fuel cost Aug 14	\$9,329	\$245,861	\$4,055,267
HEU fuel cost Aug 14	\$11,208	\$168,401	\$2,734,546
Electrical power cost Aug 14	\$147,062	\$1,725,753	\$17,740,184
Other	\$76,057	\$1,019,050	\$11,550,945
Sub Total - Items provided by BLM	\$377,219	\$4,761,827	\$51,144,383
Total - Cliffside Refiners, LP, GDA030001	(\$501,859)	(\$6,022,307)	(\$66,657,449)

*Rounded to nearest dollar

CHEU Utility Usage	Month	FYTD	Cumulative
Cheu Fuel Gas (Mcf) usage Sep 14	2,713	34,918	478,227
Cheu Pure Water Usage (gallons) Sep 14	6	9,615	276,977
Electricity Metered (Kwh) consumed Aug 14	2,439,796	32,471,472	66,026,165