

Bureau of Land Management

Amarillo Field Office Helium Operations



Statistical Report for November - 2014



Distribution:

Fluid Minerals Group Manager, Washington Office
NMSO, New Mexico State Director
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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

Compiled by: David V. Reeves

Issued: January 13, 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 13, 2016

Table 1 - Summary of Helium Operations

November - 2014

Helium Enrichment Unit Operations

Gas Processed	Month			Gross FYTD	Net FYTD
	Gross Volume	Net Helium	Average Percent		
Measured Plant Feed (Mcf*)	452,229	74,659	16.51%	955,986	167,214
Helium Product (Mcf*)	96,755	71,931	74.34%	213,224	158,708
Residue Natural Gas (Mcf*)	238,043	0	00.00%	496,848	0

* Volumes in Mcf at 14.65 psia & 60°F

Natural Gas & Liquids Produced

Gas Processed	Month	FYTD
Natural Gas Sales (Mcf****)	234,833	493,630
NGL Sales (gallons)	87,443	169,138

*** 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Total Withdrawn (Mcf*)	453,830	74,968	16.52%	952,119	163,339
Crude Injection (Mcf*)	15,213	11,293	74.23%	35,635	26,339
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*)		6,691,280			

* Volumes in Mcf at 14.65 psia & 60°F

In Kind Helium

	Month	FYTD	CYTD	Cumulative
Sale Volumes Transferred (Mcf*)	0	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*)	45,659	29,603	64.83%	58,550
Crude Disposed (Mcf*)	121,395	86,591	71.33%	186,972
Net Balance (Mcf*)	(75,736)	(56,988)		(128,422)
Balance of Stored Helium End Of Month (Mcf*)		2,823,407		

* Volumes in Mcf at 14.65 psia & 60°F

Revenue / Charges

Helium Storage Contracts (Charges Billed (\$))	Month	FYTD
Storage Fees Billed (\$)	\$344,265	\$345,566
Reservoir Management Fees Billed (\$)	\$157,422	\$280,464

Field Compressor Charges (Charges Billed (\$))

	Month	FYTD
Funded by the Refiners (provides for booster compression services)	(\$56,477)	(\$112,954)
Cliffside Refiners, LP, by Agreement #GDA010003 (reimburses BLM for fuel, labor, supplies, etc.)	\$13,232	\$26,464
Net-Total (Funded by the Refiners for compression costs.)	(\$43,245)	(\$86,491)

Enrichment Unit Charges (Charges Billed (\$))

	Month	FYTD
Reservoir Management Fees (RMF)	\$157,422	\$280,464
Total operating costs	(\$811,970)	(\$1,592,839)
Sub Total - Items provided by BLM	\$317,065	\$603,028
Total - Cliffside Refiners, LP, GDA030001	(\$494,906)	(\$989,811)

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	\$1,022,945	\$2,055,775

Helium Resources Evaluation

	Month	FYTD
Revenue Collected from Federal Lease Holds	\$2,602,726	\$2,655,228
Helium Sample Collection Report for month	Submitted - 0	Received - 0
	Analyzed - 5	

*Rounded to nearest dollar

Table 2 - Bush Dome Reservoir Operations

November - 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		453,830	217,270,186	74,968	40,744,323	113,077	53,516,436	236,261	110,098,801	25,216	11,099,011	4,309	1,811,616
BIVINS A-3	Nov-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	Nov-14	6,156	11,047,110	4,579	6,573,035	1,401	2,715,222	136	1,554,896	0	153,480	41	50,477
BIVINS A-13	Nov-14	32,549	8,023,445	11,592	4,299,710	8,229	2,065,608	11,287	1,452,476	1,204	160,172	238	45,478
BIVINS A-14	Nov-14	40,772	8,926,134	14,327	5,293,835	10,254	2,265,154	14,241	1,189,028	1,553	127,507	397	50,609
BIVINS A-4	Nov-14	27,434	12,948,356	3,455	2,326,566	6,580	3,138,152	15,473	6,697,801	1,643	671,393	283	114,444
BUSH A-2	Nov-14	42,034	12,488,247	4,746	1,883,044	10,500	3,058,403	23,815	6,752,526	2,682	688,968	291	105,306
Injection	Nov-14	15,213	66,341,038	11,293	47,920,660	3,479	17,090,802	331	777,762	6	31	104	551,783
inj Bivins A-3	Nov-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	Nov-14	(15,213)	(24,279,076)	(11,292)	(17,571,093)	(3,484)	(6,455,651)	(330)	(140,274)	(5)	(70)	(102)	(111,987)
inj Bivins A-13	Nov-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	Nov-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	Nov-14	0	(2,527,801)	0	(1,848,815)	0	(601,353)	0	(42,016)	0	0	0	(35,617)
inj Bush A-2	Nov-14	0	(867,658)	0	(625,258)	0	(215,406)	0	(13,980)	0	0	0	(13,015)
Production	Nov-14	0	1,217,868	0	897,578	0	261,663	0	47,122	0	3,172	0	8,333
BIVINS A-1	Nov-14	0	2,686,608	0	48,896	0	636,995	0	1,798,415	0	175,704	0	26,597
BIVINS A-2	Nov-14	19,031	13,722,136	681	1,871,007	4,420	3,364,304	12,428	7,615,565	1,314	757,645	188	113,615
BIVINS A-5	Nov-14	23,491	15,701,269	4,191	1,982,301	5,959	3,846,380	11,862	8,848,110	1,295	888,374	183	136,104
BIVINS A-7	Nov-14	18,072	11,557,494	5,610	2,707,610	4,684	2,908,492	6,876	5,316,539	781	540,738	120	84,115
BIVINS A-9	Nov-14	16,387	10,041,200	352	190,301	4,237	2,466,102	10,547	6,624,421	1,118	668,423	133	91,952
BIVINS A-11	Nov-14	19,557	6,233,842	575	132,778	5,006	1,549,384	12,466	4,074,727	1,327	418,246	184	58,706
BIVINS A-15	Nov-14	32,510	9,315,830	569	421,793	7,673	2,220,643	21,663	5,979,728	2,216	598,104	390	95,563
BIVINS B-1	Nov-14	32,561	7,543,327	774	288,997	7,933	1,827,820	21,253	4,856,571	2,227	494,841	374	75,097
BIVINS B-2	Nov-14	27,055	6,265,799	514	117,994	6,914	1,568,262	17,343	4,074,025	1,819	418,821	465	86,697
BUSH A-1	Nov-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	Nov-14	27,650	11,710,444	9,247	2,724,757	7,010	2,892,819	10,042	5,440,685	1,122	549,673	230	102,510
BUSH A-4	Nov-14	18,198	8,381,098	2,089	1,552,743	4,631	2,094,847	10,254	4,240,872	1,119	431,991	105	60,644
BUSH A-5	Nov-14	38,850	16,007,374	11,052	3,655,336	9,918	4,015,350	15,999	7,466,981	1,657	757,919	224	111,789
BUSH A-8	Nov-14	19,998	4,019,744	371	73,608	4,984	972,093	12,978	2,657,236	1,345	267,364	319	49,443
BUSH A-9	Nov-14	0	3,860,915	0	105,037	0	930,915	0	2,537,187	0	253,463	0	34,312
BUSH A-11	Nov-14	8,149	4,433,796	180	130,286	1,945	1,060,378	5,357	2,898,276	556	294,225	111	50,631
BUSH B-1	Nov-14	3,376	3,260,399	62	61,227	806	773,601	2,239	2,179,067	238	214,580	31	31,924
FUQUA A-1	Nov-14	0	2,954,098	0	53,854	0	702,798	0	1,975,175	0	193,573	0	28,699
FUQUA A-2	Nov-14	0	132,119	0	2,404	0	31,322	0	88,458	0	8,637	0	1,297
FUQUA A-3	Nov-14	0	9,303,890	0	577,005	0	2,277,682	0	5,790,346	0	583,700	0	75,158
TT Fuel	Nov-14	0	0	0	0	0	0	0	0	0	0	0	0
field-wide pct's				16.52%	18.75%	24.92%	24.63%	52.06%	50.67%	5.56%	5.11%	0.95%	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	Nov-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		5.460	1.026
Injected to Date 2014		(0.100)	(0.074)
Amount of Raw Gas Available to CHEU		96.963	=====> 11.917 total helium in reservoir
Estimated Bottom Hole Pressure		357.062	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

November - 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	Nov-14	452,229	82,450,405	74,659	20,768,270	112,674	20,688,758	235,475	36,411,158	25,127	3,879,937	4,293	702,281
Calculated Feed	Nov-14	453,830	82,068,862	74,967	20,721,911	113,081	20,588,154	236,260	36,180,286	25,216	3,878,423	4,307	700,088
Feed to Box	Nov-14	450,241	81,570,537	74,967	20,722,090	113,081	20,588,236	236,260	36,180,332	25,216	3,878,428	717	201,452
Cheu Product	Nov-14	96,755	26,123,394	71,931	20,471,763	21,979	4,960,620	2,092	508,522	89	518	664	181,972
Residue	Nov-14	238,043	36,491,520	0	1,638	5,360	904,551	211,871	32,379,501	20,812	3,204,587	0	1,243
Cold Box Vent	Nov-14	82,101	13,940,745	51	87,655	70,984	12,371,401	11,077	1,420,701	(17)	117	7	60,871
Flare/Boot Strap	Nov-14	82,101	4,456,994	51	48,435	70,984	3,626,403	11,077	682,870	(17)	93,582	7	5,704
Fuel From Cheu	Nov-14	8,107	1,107,562	4	309	210	33,018	6,538	898,877	1,355	175,358	0	0
Shrinkage/Loss	Nov-14	2,960	379,407	0	0	0	0	0	0	2,960	379,407	0	0
Unaccounted*	Nov-14	22,275	2,387,574	2,981	97,509	14,549	1,900,699	4,681	385,296	17	1,102	46	2,968

*Before October 2004, the values are estimated

Storage Operations

Inventory (contained helium)

	Government	Private
Beginning inventory	6,694,132	2,880,395
net acceptances + redeliveries	0	0
In Kind Transfers	0	0
Conservation Crude Sales	0	0
Gain/loss	(2,853)	
Ending Inventory	6,691,280	2,823,407
Total Helium in Reservoir	11,916,758	
Total Helium in Storage	9,514,687	
Helium in native gas	2,402,071	

Crude Helium Pipeline

	Gross	Net Helium	Percent
Beginning inventory	44,850	32,422	72.29%
Measured to Pipeline (Private Plants)	45,659	30,022	65.75%
Measured from Pipeline (Private Plant)	121,395	86,591	71.33%
HEU Production	96,755	71,931	74.34%
Injection	15,213	11,293	74.23%
Production	0	0	
Ending Inventory	47,065	33,637	71.47%
Gain/Loss	(3,591)	(2,853)	

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

November - 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							0	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

November - 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		0	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	234,833	---	258,358	1,100	(\$27,997)
FYTD	493,630	---	539,183	1,092	(\$55,994)
Cumulative	35,888,811	---	39,397,472	1,098	(\$3,968,083)
<u>Minerals Management Service</u>					
		No Longer Provides Natural Gas Marketing Services			
Cumulative	---	---	---	---	(\$179,913)
<u>Tenaska</u>					
		Purchaser - Natural Gas		\$/Unit	
Month	---	---	258,100	\$3.777702	\$975,025
FYTD	---	---	537,400	\$3.625027	\$1,948,089
Cumulative	---	---	39,079,763	\$4.836251	\$188,172,991
<u>Sandstone</u>					
		Purchaser - Natural Gas Liquids			
Month	---	87,443	9,325	\$8.141218	\$75,917
FYTD	---	169,138	16,772	\$9.759122	\$163,680
Cumulative	---	10,769,366	1,147,444	\$12.428540	\$14,261,054
	Natural Gas (Mcf)***	NGLs (gal)	Purchased (Dth's)	\$/Per Unit (\$/Dth)	Total (\$)
Total month	234,833	87,443	267,425	\$3.825165	\$1,022,945
Total FYTD	493,630	169,138	554,172	\$3.709634	\$2,055,775
Total CYTD	2,723,161	905,153	2,999,367	\$4.578151	\$13,731,554
Cumulative	35,888,811	10,769,366	40,227,207	\$4.949700	\$198,286,048

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

**Rounded to nearest dollar

Table 6 - Helium Resources Evaluation

November - 2014

All Volumes in Mcf at 14.7 psia & 70°F

Revenue Collected From Federal Leaseholds	Month*	FYTD*
Fee Sales & Royalties	\$2,599,537	\$2,630,263
Natural Gas Royalties (1)	\$0	\$0
Natural Gas Rentals	\$0	\$0
Other	\$24,966	\$46,743
Revenue Collected from Federal Lease Holds	\$2,602,726	\$2,655,228

*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	2	6
Total Number of Samples Analyzed For Resources Division	2	2
Total Number of Other Samples Analyzed (2)	5	18

U. S. Helium Production

<i>Domestic</i>	FY Volume	CY Volume
2012 Helium Sold	4,725,187	4,623,130
2013 Helium Sold	4,279,795	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
U.S. Helium Exports (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

November - 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	45,659	64.8%	29,603	58,550	345,831	31,148,324	19,681	53,956,594		
Crude Disposed	121,395	71.3%	86,591	186,972	1,241,169	49,418,303	19,681	31,384,490	\$344,265	Storage Fees
Grade-A Rdlvrd	0		0	0	0	1,478,718			\$157,422	RMF Fees
Net/Balance	(75,736)		(56,988)	(128,422)	(895,338)	(19,748,697)	0	22,572,104	2,823,407	\$501,687 \$626,031
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	6,694,132
Crude Disposed: In Kind Sales transferred for the month	0
Conservation Crude Sales/Reserve Sell Down transferred (montl	0
Gains and Losses for the month	(2,853)
Net/Balance of Purchased Helium Remaining for Sale	6,691,280

*Includes In Kind and Conservation Crude transfers from Government storage

**Rounded to nearest dollar

Table 8 - Compression & CHEU (Charges & Operations)

November - 2014

Field/CHEU Compressor Operations		Month	FYTD	Cumulative
Spot gas fuel price *	\$ per/MMBTU	\$3.78	\$3.77	\$5.12
Fuel used * (now includes field compression well head)	total MMBTU	9,570	19,868	1,547,925
Field Compression Fuel Cost *	\$dollars	\$0	\$0	\$654,398
CHEU Compression Fuel Cost *	\$dollars	\$22,956	\$43,888	\$4,076,339
CHEU Process Fuel Cost *	\$dollars	\$12,054	\$23,486	\$2,728,983
Rental compressor(s) fuel consumed (well head)	\$dollars	\$748	\$4,221	\$201,880
Rental Compressor(s) helium in fuel (Mcf x \$\$)	\$dollars	\$530	\$3,286	\$263,847
Rental compressor(s) helium in fuel (Mcf)	Mcf	5	31	3154
#1 Compressor run time *	hours	721	1,465	90,929
#2 Compressor run time *	hours	666	666	55,321
#3 Compressor run time *	hours	55	798	53,810

* Field/CHEU Compressor Operations based on Nov 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)	(\$112,954)	(\$10,640,585)
Cliffside Refiners, LP, GDA010003 (BLM provided fuel *, labor, supplies, etc.)	\$13,232	\$26,464	\$2,659,660
Net Total - Cliffside Refiners, LP	(\$43,245)	(\$86,491)	(\$7,980,925)

* BLM provided fuel cost is based on Oct 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	721	100.1%	1,465	100.1%	97,174
Producing residue gas	721	100.1%	1,465	100.1%	95,874
Producing helium product	721	100.1%	1,465	100.1%	92,919
Producing natural gas liquids	721	100.1%	1,465	100.1%	91,535

CHEU Charges	Charges Billed (\$)*		
	Month	FYTD	Cumulative
Reservoir Management Fees (RMF)	\$157,422	\$280,464	\$27,598,812
Total operating costs	(\$811,970)	(\$1,592,839)	(\$119,394,671)
Labor	\$76,760	\$153,520	\$12,007,605
Compressor fuel cost Oct 14	\$20,932	\$43,269	\$4,098,536
HEU fuel cost Oct 14	\$11,432	\$22,910	\$2,757,456
Electrical power cost Oct 14	\$151,884	\$273,977	\$18,014,161
Other	\$56,057	\$109,352	\$11,660,297
Sub Total - Items provided by BLM	\$317,065	\$603,028	\$51,747,411
Total - Cliffside Refiners, LP, GDA030001	(\$494,906)	(\$989,811)	(\$67,647,260)

***Rounded to nearest dollar**

CHEU Utility Usage	Month	FYTD	Cumulative
Cheu Fuel Gas (Mcf) usage Nov 14	2,759	5,601	483,828
Cheu Pure Water Usage (gallons) Nov 14	556	571	277,549
Electricity Metered (Kwh) consumed Oct 14	2,595,546	4,434,147	70,460,312