

Bureau of Land Management

Amarillo Field Office Helium Operations



Statistical Report for December - 2011



Distribution:

Fluid Minerals Group Manager, Washington Office
NMSO, New Mexico State Director
NMSO, Associate 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: Nelson R. Bullard

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*** Revised ***

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

Approved for Distribution: **Samuel R.M. Burton**

Date: **May 16, 2012**

Table 1 - Summary of Helium Operations

December - 2011

Helium Enrichment Unit Operations

Gas Processed	Month			Gross FYTD	Net FYTD
	Gross Volume	Net Helium	Average Percent		
Measured Plant Feed (Mcf*)	666,250	194,360	29.17%	2,029,945	582,438
Helium Product (Mcf*)	246,623	195,684	79.35%	731,552	580,622
Residue Natural Gas (Mcf*)	276,209	0	00.00%	855,007	0

* Volumes in Mcf at 14.65 psia & 60°F

Natural Gas & Liquids Produced

Gas Processed	Month	FYTD
Natural Gas Sales (Mcf****)	273,223	846,748
NGL Sales (gallons)	110,291	321,634

**** 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Total Withdrawn (Mcf*)	667,488	196,942	29.50%	2,019,194	582,926
Crude Injection (Mcf*)	0	0	00.00%	0	0
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*)		375,000	525,000	2,375,000	14,588,600
Conservation Crude Sale Volume Transferred (Mcf*)	450,000	75,000	600,000	2,100,000	14,138,600
Conservation Helium in Storage (EOM) (Mcf*)		13,080,142			

* Volumes in Mcf at 14.65 psia & 60°F

In Kind Helium

	Month	FYTD	CYTD	Cumulative
Sale Volumes Transferred (Mcf*)	42,126	42,126	164,148	2,758,856
Sale Volumes Outstanding (Mcf*)	38,816			

* 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*)	45,499	31,097	68.35%	94,986
Crude Disposed (Mcf*)	286,489	221,888	77.45%	669,164
Net Balance (Mcf*)	(240,990)	(190,791)		(574,178)
Balance of Stored Helium End Of Month (Mcf*)		1,222,473		

* Volumes in Mcf at 14.65 psia & 60°F

Revenue / Charges

Helium Storage Contracts (Charges Billed (\$))	Month	FYTD
Storage Fees Billed (\$)	\$387,903	\$798,484
Reservoir Management Fees Billed (\$)	\$242,526	\$822,752

Field Compressor Charges (Charges Billed (\$))

	Month	FYTD
Funded by the Refiners (provides for booster compression services)	(\$59,706)	(\$179,118)
Cliffside Refiners, LP, by Agreement #GDA010003 (reimburses BLM for fuel, labor, supplies, etc.)	\$16,462	\$49,387
Net-Total (Funded by the Refiners for compression costs.)	(\$43,244)	(\$129,731)

Enrichment Unit Charges (Charges Billed (\$))

	Month	FYTD
Reservoir Management Fees (RMF)	\$242,526	\$822,752
Total operating costs	(\$859,357)	(\$2,611,412)
Sub Total - Items provided by BLM	\$356,799	\$1,103,738
Total - Cliffside Refiners, LP, GDA030001	(\$502,558)	(\$1,507,674)

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

	Month	FYTD
Conservation Crude Helium Sales	\$28,406,250	\$39,768,750
In Kind Sales	\$2,479,666	\$2,479,666
Natural Gas & Liquid Sales	\$1,049,026	\$3,293,671

Helium Resources Evaluation

	Month	FYTD
Revenue Collected from Federal Lease Holds	\$964,482	\$2,647,884
Helium Sample Collection Report for month	Submitted - 0	Received - 0
	Analyzed - 16	

*Rounded to nearest dollar

Table 2 - Bush Dome Reservoir Operations

December - 2011

		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		667,488	196,409,300	196.942	35,837.901	166.459	48,296.235	269.543	100,576.630	28.939	10,070.464	5.605	1,628.069
BIVINS A-3	Dec-11	31,896	10,500,798	17,686	3,309,748	7,987	2,656,812	5,449	4,066,365	569	397,269	205	70,603
BIVINS A-6	Dec-11	77,497	9,302,725	51,015	5,508,915	18,597	2,282,891	6,565	1,344,995	760	128,376	561	37,548
BIVINS A-13	Dec-11	54,091	6,381,937	22,794	3,680,062	13,457	1,653,574	15,672	916,554	1,772	98,559	395	33,189
BIVINS A-14	Dec-11	60,907	6,998,049	29,517	4,494,767	15,171	1,781,075	14,209	622,798	1,534	64,836	476	34,573
BIVINS A-4	Dec-11	41,003	11,724,238	8,575	2,122,193	10,030	2,841,651	19,896	6,054,850	2,115	603,192	388	102,352
BUSH A-2	Dec-11	499	10,856,436	81	1,669,624	126	2,650,129	260	5,853,769	28	589,239	3	93,676
Injection	Dec-11	0	66,240,889	0	47,846,276	0	17,067,782	0	775,688	0	23	0	551,121
inj Bivins A-3	Dec-11	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-11	0	(24,201,365)	0	(17,514,139)	0	(6,437,517)	0	(138,222)	0	(12)	0	(111,475)
inj Bivins A-13	Dec-11	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-11	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-11	0	(2,527,801)	0	(1,848,815)	0	(601,353)	0	(42,016)	0	0	0	(35,617)
inj Bush A-2	Dec-11	0	(867,658)	0	(625,258)	0	(215,406)	0	(13,980)	0	0	0	(13,015)
Production	Dec-11	0	1,217,868	0	897,578	0	261,663	0	47,122	0	3,172	0	8,333
BIVINS A-1	Dec-11	0	2,686,608	0	48,896	0	636,995	0	1,798,415	0	175,704	0	26,597
BIVINS A-2	Dec-11	23,168	12,945,565	1,218	1,837,202	5,498	3,181,494	14,704	7,115,577	1,530	705,189	217	106,103
BIVINS A-5	Dec-11	44,023	14,573,174	9,943	1,761,281	11,236	3,559,363	20,301	8,296,771	2,204	828,340	339	127,420
BIVINS A-7	Dec-11	35,160	10,675,912	11,578	2,425,262	9,169	2,679,389	12,754	4,989,105	1,427	503,912	232	78,244
BIVINS A-9	Dec-11	15,591	9,371,958	325	176,188	4,027	2,292,822	10,053	6,193,538	1,062	622,825	124	86,585
BIVINS A-11	Dec-11	23,333	5,380,828	636	108,510	5,966	1,330,807	14,935	3,530,294	1,581	360,431	215	50,786
BIVINS A-15	Dec-11	30,602	8,306,856	553	404,000	7,219	1,982,266	20,384	5,307,628	2,089	529,331	358	83,631
BIVINS B-1	Dec-11	23,535	6,536,380	750	262,860	5,771	1,581,691	15,199	4,201,164	1,570	426,609	246	64,056
BIVINS B-2	Dec-11	24,048	5,240,476	458	98,477	6,138	1,305,978	15,435	3,416,690	1,619	349,825	398	69,505
BUSH A-1	Dec-11	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-11	41,188	10,472,899	17,983	2,255,357	10,565	2,577,305	11,054	5,043,002	1,245	504,978	341	92,257
BUSH A-4	Dec-11	33,085	7,606,991	6,317	1,433,570	8,488	1,897,089	16,315	3,832,462	1,767	387,803	198	56,068
BUSH A-5	Dec-11	51,959	14,368,138	15,734	3,164,145	13,290	3,597,383	20,386	6,818,940	2,249	685,583	301	102,087
BUSH A-8	Dec-11	15,430	3,451,038	287	63,205	3,822	830,381	10,045	2,287,190	1,042	229,511	234	40,752
BUSH A-9	Dec-11	11,476	3,705,613	587	96,811	2,795	891,257	7,210	2,441,164	827	242,894	57	33,487
BUSH A-11	Dec-11	23,179	4,048,911	751	120,154	5,590	968,097	15,002	2,646,788	1,548	268,255	288	45,616
BUSH B-1	Dec-11	35	3,187,410	1	59,867	9	756,056	23	2,130,778	2	209,454	0	31,255
FUQUA A-1	Dec-11	0	2,954,094	0	53,854	0	702,797	0	1,975,172	0	193,572	0	28,699
FUQUA A-2	Dec-11	0	132,119	0	2,404	0	31,322	0	88,458	0	8,637	0	1,297
FUQUA A-3	Dec-11	5,783	9,278,185	154	576,409	1,510	2,270,934	3,692	5,773,880	399	581,926	28	75,036
TT Fuel	Dec-11	35	0	1	0	9	0	23	0	2	0	0	0
field-wide pct's				29.50%	18.25%	24.94%	24.59%	40.38%	51.21%	4.34%	5.13%	0.84%	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-11	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 - 10		56.328	15.284
Injection 2003 - 10		(1.189)	(0.985)
Produced to Date 2011		7.703	2.207
Injected to Date 2011		0.000	0.000
Amount of Raw Gas Available to CHEU		117.723	=====> 16.749 total helium in reservoir
Estimated Bottom Hole Pressure		433.437	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

December - 2011

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	Dec-11	666,250	61,569,500	194,360	15,833,415	166,668	15,457,669	270,908	26,893,844	28,694	2,865,513	5,620	519,059
Calculated Feed	Dec-11	667,453	61,231,179	196,941	15,828,202	166,451	15,373,793	269,520	26,662,219	28,937	2,850,302	5,605	516,662
Feed to Box	Dec-11	663,659	60,870,973	196,941	15,828,381	166,451	15,373,875	269,520	26,662,265	28,937	2,850,309	1,811	156,142
Cheu Product	Dec-11	246,623	19,872,174	195,684	15,622,470	44,322	3,725,418	4,855	385,743	0	394	1,762	138,150
Residue	Dec-11	276,209	26,872,869	0	1,476	6,934	674,684	245,507	23,822,439	23,768	2,373,039	0	1,231
Cold Box Vent	Dec-11	107,828	10,539,869	63	84,440	98,658	9,267,600	9,098	1,127,427	0	136	10	60,266
Flare/Boot Strap	Dec-11	107,828	1,601,293	63	45,520	98,658	1,027,214	9,098	429,814	0	93,495	10	5,251
Fuel From Cheu	Dec-11	8,177	845,858	0	245	278	25,403	6,617	685,859	1,282	134,351	0	0
Shrinkage/Loss	Dec-11	3,887	239,638	0	0	0	0	0	0	3,887	239,638	0	0
Unaccounted*	Dec-11	20,935	1,606,588	1,194	68,350	16,260	1,334,223	3,443	200,706	(0)	1,084	39	2,225

*Before October 2004, the values are estimated

Storage Operations

Inventory (contained helium)

	Government	Private
Beginning inventory	13,200,563	1,296,138
net acceptances + redeliveries	0	0
In Kind Transfers	(42,126)	42,126
Conservation Crude Sales	(75,000)	75,000
Gain/loss	(3,295)	
Ending Inventory	13,080,142	1,222,473
Total Helium in Reservoir	16,748,787	
Total Helium in Storage	14,302,615	
Helium in native gas	2,446,172	

Crude Helium Pipeline

	Gross	Net Helium	Percent
Beginning inventory	34,891	26,965	77.28%
Measured to Pipeline (Private Plants)	45,499	31,251	68.69%
Measured from Pipeline (Private Plant)	286,489	221,888	77.45%
HEU Production	246,623	195,684	79.35%
Injection	0	0	00.00%
Production	0	0	
Ending Inventory	37,022	28,718	77.57%
Gain/Loss	(3,502)	(3,295)	

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 - 2011

	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										
Jack B. Kelley Co., Contract no. INC98-0110										
Month										
FYTD										
Portland Welding Supply, Contract no. INC98-0111										
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										
Total month	13,233	2,250	0	846	9,133	13,436	38,899	38,296	\$2,479,666	
Total FYTD	13,233	2,250	0	846	9,133	13,436	38,899	38,296	\$2,479,666	
Total CYTD	77,118	10,091	34	1,008	24,951	51,512	164,715	162,167	\$10,500,313	
Cumulative	1,640,303	88,156	264	271,391	381,620	459,908	2,841,643	2,797,597	\$153,619,173	
In Kind Transfers							Month	FYTD	CYTD	Cumulative
Transferred							42,126	42,126	164,148	2,758,856
Volume outstanding							38,816			

* 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

December - 2011

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	264,250		264,250	\$18,302,250	
<u>Air Products, L.P.</u>					
Month	0	(100,000)	100,000	\$7,575,000	
FYTD	100,000	0	100,000	\$7,575,000	
Cumulative	5,749,400		5,749,400	\$356,481,750	
<u>Linde Gas North America, LLC</u>					
Month	0	(200,000)	200,000	\$15,150,000	
FYTD	200,000	0	200,000	\$15,150,000	
Cumulative	4,521,750		4,521,750	\$270,685,000	
<u>Keyes Helium Co., LLC</u>					
Month	0	0	0	\$0	
FYTD	0	0	0	\$0	
Cumulative	703,200		703,200	\$42,052,400	
<u>Matheson Tri-Gas, Inc.</u>					
Month	0	0	0	\$0	
FYTD	0	0	0	\$0	
Cumulative	10,000		10,000	\$587,500	
<u>Praxair, Inc.</u>					
Month	0	(75,000)	75,000	\$5,681,250	
FYTD	225,000	0	225,000	\$17,043,750	
Cumulative	3,140,000		3,140,000	\$196,802,500	
<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	
Total month	0	(375,000)	375,000	\$28,406,250	
Total FYTD	525,000	0	525,000	\$39,768,750	
Total CYTD	2,375,000		2,375,000	\$178,518,750	
Cumulative	14,588,600		14,588,600	\$895,946,400	
Conservation Crude Transfers					
		Month	FYTD	CYTD	Cumulative
Transferred		75,000	600,000	2,100,000	14,138,600
Volume outstanding		450,000			

* 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			(billed monthly)
Month	273,223	---	298,521	1,093	(\$31,324)
FYTD	846,748	---	925,941	1,094	(\$90,628)
Cumulative	26,315,466	---	28,926,322	1,099	(\$2,969,735)
<u>Minerals Management Service</u>					
		No Longer Provides Natural Gas Marketing Services			
Cumulative	---	---	---	---	(\$179,913)
<u>Tenaska</u>					
		Purchaser - Natural Gas		\$/Unit	
Month	---	---	300,629	\$3.043509	\$914,967
FYTD	---	---	925,578	\$3.141715	\$2,907,902
Cumulative	---	---	28,756,127	\$5.351554	\$153,063,405
<u>Sandstone</u>					
		Purchaser - Natural Gas Liquids			
Month	---	110,291	11,640	\$14.208176	\$165,383
FYTD	---	321,634	34,050	\$13.991110	\$476,397
Cumulative	---	7,341,431	783,554	\$12.201658	\$9,560,658
	Natural Gas (Mcf)***	NGLs (gal)	Purchased (Dth's)	\$/Per Unit (\$\$/Dth)	Total (\$)
Total month	273,223	110,291	312,269	\$3.359366	\$1,049,026
Total FYTD	846,748	321,634	959,628	\$3.432238	\$3,293,671
Total CYTD	3,199,912	1,125,903	3,611,485	\$4.058153	\$14,655,959
Cumulative	26,315,466	7,341,431	29,539,681	\$5.426632	\$159,474,415

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

**Rounded to nearest dollar

Table 6 - Helium Resources Evaluation

December - 2011

All Volumes in Mcf at 14.7 psia & 70°F

Revenue Collected From Federal Leaseholds	Month*	FYTD*
Fee Sales & Royalties	\$970,252	\$2,608,769
Natural Gas Royalties (1)	\$815	\$2,784
Natural Gas Rentals	\$0	\$0
Other	\$36,331	\$146,192
Revenue Collected from Federal Lease Holds	\$964,482	\$2,647,884

*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	1
Total Number of Samples Analyzed For Resources Division	1	15
Total Number of Other Samples Analyzed (2)	16	51

U. S. Helium Production

<i>Domestic</i>	FY Volume	CY Volume
2005 Helium Sold	4,675,800	4,692,699
2006 Helium Sold	4,995,800	4,944,544
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	4,691,100	4,768,537
Estimated Helium Resources as of 12/31/2006 (Mcf)		732,000,000

	FY-2011	CY-2011
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

December - 2011

All Volumes in Mcf at 14.65 psia & 60°F

	Metered Gas					Transferred Gas Helium		Stored Helium EOM	Charges Billed (\$)**		
	Gross Gas Month	Helium %	Helium	Helium FYTD	Helium CYTD	Helium Cumulative	Month		Cumulative	Month	FYTD
Total All Contracts*											
Crude Acquired	45,499	68.3%	31,097	94,986	387,148	30,011,039	164,871	46,464,957			
Crude Disposed	286,489	77.5%	221,888	669,164	2,557,116	43,564,891	47,745	30,209,914			\$387,903 Storage Fees
Grade-A Rdlvrd	0		0	0	0	1,478,718					\$242,526 RMF Fees
Net/Balance	(240,990)		(190,791)	(574,178)	(2,169,968)	(15,032,570)	117,126	16,255,043	1,222,473	\$630,429	\$1,621,236
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											

Government Helium

Remaining Crude Acquired beginning of the month	13,200,563
Crude Disposed: In Kind Sales transferred for the month	(42,126)
Conservation Crude Sales/Reserve Sell Down transferred (month)	(75,000)
Gains and Loses for the month	(3,295)
Net/Balance of Purchased Helium Remaining for Sale	13,080,142

*Includes In Kind and Conservation Crude transfers from Government storage

**Rounded to nearest dollar

Table 8 - Compression & CHEU (Charges & Operations)

December - 2011

Field/CHEU Compressor Operations		Month	FYTD	Cumulative
Spot gas fuel price *	\$ per/MMBTU	\$3.04	\$3.37	\$5.44
Fuel used * (now includes field compression well head)	total MMBTU	9,865	29,836	1,187,784
Field Compression Fuel Cost *	\$dollars	\$0	\$0	\$654,398
CHEU Compression Fuel Cost *	\$dollars	\$17,811	\$56,067	\$3,460,552
CHEU Process Fuel Cost *	\$dollars	\$11,014	\$33,037	\$2,330,630
Rental compressor(s) fuel consumed (well head)	\$dollars	\$1,164	\$4,512	\$6,598
Rental Compressor(s) helium in fuel (Mcf x \$\$)	\$dollars	\$1,742	\$6,818	\$8,969
Rental compressor(s) helium in fuel (Mcf)	Mcf	23	90	119
#1 Compressor run time *	hours	732	2,185	69,559
#2 Compressor run time *	hours	563	565	47,613
#3 Compressor run time *	hours	173	1,622	34,029

* Field/CHEU Compressor Operations based on Dec 11 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)	(\$59,706)	(\$179,118)	(\$8,589,607)
Cliffside Refiners, LP, GDA010003 (BLM provided fuel *, labor, supplies, etc.)	\$16,462	\$49,387	\$2,138,179
Net Total - Cliffside Refiners, LP	(\$43,244)	(\$129,731)	(\$6,451,428)

* BLM provided fuel cost is based on Nov 11 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	741	99.6%	2,197	99.5%	72,210
Producing residue gas	734	98.7%	2,187	99.0%	71,436
Producing helium product	735	98.8%	2,187	99.0%	68,536
Producing natural gas liquids	735	98.8%	2,187	99.1%	67,071

CHEU Charges	Charges Billed (\$)*		
	Month	FYTD	Cumulative
Reservior Management Fees (RMF)	\$242,526	\$822,752	\$20,849,752
Total operating costs	(\$859,357)	(\$2,611,412)	(\$89,608,445)
Labor	\$116,095	\$348,286	\$8,111,403
Compressor fuel cost Nov 11	\$17,760	\$59,125	\$3,493,556
HEU fuel cost Nov 11	\$11,070	\$33,798	\$2,364,443
Electrical power cost Oct 11	\$130,821	\$419,104	\$13,421,314
Other	\$81,053	\$243,425	\$8,820,478
Sub Total - Items provided by BLM	\$356,799	\$1,103,738	\$39,420,549
Total - Cliffside Refiners, LP, GDA030001	(\$502,558)	(\$1,507,674)	(\$50,187,897)

***Rounded to nearest dollar**

CHEU Utility Usage	Month	FYTD	Cumulative
Cheu Fuel Gas (Mcf) usage Dec 11	3,138	9,132	380,467
Cheu Pure Water Usage (gallons) Dec 11	838	1,985	245,470
Electricity Metered (Kwh) consumed Oct 11	2,889,920	8,871,950	241,214,272