

Bureau of Land Management

Amarillo Field Office Helium Operations



Statistical Report for December - 2012



Distribution:

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

Issued: April 10, 2013

"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: April 30, 2013

Table 1 - Summary of Helium Operations

December - 2012

Helium Enrichment Unit Operations

Gas Processed	Month			Gross FYTD	Net FYTD
	Gross Volume	Net Helium	Average Percent		
Measured Plant Feed (Mcf*)	690,250	178,068	25.80%	2,077,168	535,087
Helium Product (Mcf*)	225,754	176,624	78.24%	676,698	530,525
Residue Natural Gas (Mcf*)	310,082	0	00.00%	940,854	0

* Volumes in Mcf at 14.65 psia & 60°F

Natural Gas & Liquids Produced

Gas Processed	Month	FYTD
Natural Gas Sales (Mcf****)	306,251	927,661
NGL Sales (gallons)	107,953	340,928

**** 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Total Withdrawn (Mcf*)	689,207	177,042	25.69%	2,078,106	533,033
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*)		525,000	525,000	2,100,000	16,688,600
Conservation Crude Sale Volume Transferred (Mcf*)	525,000	0	525,000	2,025,000	16,163,600
Conservation Helium in Storage (EOM) (Mcf*)		10,865,249			

* Volumes in Mcf at 14.65 psia & 60°F

In Kind Helium

	Month	FYTD	CYTD	Cumulative
Sale Volumes Transferred (Mcf*)	93	46,956	158,227	2,917,083
Sale Volumes Outstanding (Mcf*)	34,029			

* 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*)	56,402	36,942	65.50%	108,033
Crude Disposed (Mcf*)	283,074	213,848	75.54%	628,232
Net Balance (Mcf*)	(226,672)	(176,906)		(520,199)
Balance of Stored Helium End Of Month (Mcf*)		1,328,673		

* Volumes in Mcf at 14.65 psia & 60°F

Revenue / Charges

Helium Storage Contracts (Charges Billed (\$))	Month	FYTD
Storage Fees Billed (\$)	\$293,786	\$607,652
Reservoir Management Fees Billed (\$)	\$237,979	\$700,326

Field Compressor Charges (Charges Billed (\$))

	Month	FYTD
Funded by the Refiners (provides for booster compression services)	(\$55,778)	(\$167,333)
Cliffside Refiners, LP, by Agreement #GDA010003 (reimburses BLM for fuel, labor, supplies, etc.)	\$12,540	\$37,621
Net-Total (Funded by the Refiners for compression costs.)	(\$43,238)	(\$129,713)

Enrichment Unit Charges (Charges Billed (\$))

	Month	FYTD
Reservoir Management Fees (RMF)	\$237,979	\$700,326
Total operating costs	(\$812,858)	(\$2,463,229)
Sub Total - Items provided by BLM	\$319,173	\$982,173
Total - Cliffside Refiners, LP, GDA030001	(\$493,685)	(\$1,481,056)

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

	Month	FYTD
Conservation Crude Helium Sales	\$44,100,000	\$44,100,000
In Kind Sales	\$2,197,787	\$2,197,787
Natural Gas & Liquid Sales	\$1,193,119	\$3,521,744

Helium Resources Evaluation

	Month	FYTD
Revenue Collected from Federal Lease Holds	\$871,976	\$3,279,290
Helium Sample Collection Report for month	Submitted - 0	Received - 0
	Analyzed - 16	

*Rounded to nearest dollar

Table 2 - Bush Dome Reservoir Operations

December - 2012

		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		689,207	204,510,120	177,042	37,958,987	172,214	50,326,348	301,269	104,080,994	32,788	10,446,817	5,894	1,696,975
BIVINS A-3	Dec-12	25,639	10,836,905	13,155	3,488,109	6,401	2,740,859	5,335	4,130,982	576	404,142	172	72,814
BIVINS A-6	Dec-12	66,825	10,081,885	41,142	6,006,845	16,104	2,476,023	7,828	1,419,808	1,231	136,056	518	43,154
BIVINS A-13	Dec-12	55,173	6,913,938	21,250	3,894,058	13,719	1,785,934	17,807	1,079,853	1,988	116,966	410	37,127
BIVINS A-14	Dec-12	54,818	7,624,677	23,857	4,783,562	13,639	1,937,152	15,245	782,357	1,633	82,020	444	39,586
BIVINS A-4	Dec-12	40,888	12,213,647	7,409	2,218,039	9,956	2,961,066	20,908	6,298,427	2,217	629,068	399	107,048
BUSH A-2	Dec-12	57,667	11,448,215	8,551	1,759,076	14,529	2,799,420	30,775	6,167,855	3,409	624,050	403	97,815
Injection	Dec-12	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-12	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-12	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-12	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-12	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-12	0	(2,527,801)	0	(1,848,815)	0	(601,353)	0	(42,016)	0	0	0	(35,617)
inj Bush A-2	Dec-12	0	(867,658)	0	(625,258)	0	(215,406)	0	(13,980)	0	0	0	(13,015)
Production	Dec-12	0	1,217,868	0	897,578	0	261,663	0	47,122	0	3,172	0	8,333
BIVINS A-1	Dec-12	0	2,686,608	0	48,896	0	636,995	0	1,798,415	0	175,704	0	26,597
BIVINS A-2	Dec-12	28,002	13,280,027	1,365	1,854,132	6,607	3,260,638	17,888	7,328,526	1,873	727,459	269	109,272
BIVINS A-5	Dec-12	39,225	15,034,514	7,905	1,858,733	10,006	3,677,058	18,958	8,515,677	2,055	852,090	301	130,956
BIVINS A-7	Dec-12	29,348	11,053,752	9,301	2,548,041	7,639	2,777,856	10,985	5,127,689	1,228	519,419	196	80,747
BIVINS A-9	Dec-12	15,860	9,579,521	332	180,524	4,111	2,346,582	10,208	6,327,211	1,083	636,970	127	88,234
BIVINS A-11	Dec-12	24,800	5,695,800	697	117,231	6,362	1,411,546	15,827	3,731,533	1,685	381,797	229	53,692
BIVINS A-15	Dec-12	26,463	8,639,678	468	409,957	6,259	2,060,944	17,617	5,529,207	1,808	552,039	311	87,531
BIVINS B-1	Dec-12	26,560	6,850,939	722	271,982	6,516	1,658,855	17,248	4,405,010	1,789	447,720	284	67,372
BIVINS B-2	Dec-12	32,110	5,580,557	612	104,952	8,223	1,393,005	20,576	3,634,734	2,166	372,729	532	75,138
BUSH A-1	Dec-12	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-12	42,371	10,978,517	16,664	2,464,119	10,837	2,706,774	13,058	5,189,588	1,460	521,605	350	96,431
BUSH A-4	Dec-12	28,068	7,958,455	4,579	1,495,768	7,191	1,987,079	14,557	4,010,457	1,574	406,961	166	58,190
BUSH A-5	Dec-12	58,735	15,013,145	17,921	3,361,268	15,017	3,762,180	22,913	7,069,977	2,542	713,740	343	105,980
BUSH A-8	Dec-12	14,425	3,662,817	267	67,160	3,590	883,014	9,371	2,424,838	975	243,820	222	43,985
BUSH A-9	Dec-12	9,099	3,830,932	495	103,503	2,354	923,323	5,588	2,518,567	612	251,395	49	34,145
BUSH A-11	Dec-12	12,987	4,241,174	347	125,671	3,119	1,014,317	8,480	2,771,980	873	281,139	168	48,068
BUSH B-1	Dec-12	146	3,192,449	3	59,960	35	757,276	96	2,134,107	10	209,809	1	31,296
FUQUA A-1	Dec-12	0	2,954,094	0	53,854	0	702,797	0	1,975,172	0	193,572	0	28,699
FUQUA A-2	Dec-12	0	132,119	0	2,404	0	31,322	0	88,458	0	8,637	0	1,297
FUQUA A-3	Dec-12	0	9,303,794	0	577,003	0	2,277,657	0	5,790,285	0	583,693	0	75,155
TT Fuel	Dec-12	0	0	0	0	0	0	0	0	0	0	0	0
field-wide pcts				25.69%	18.56%	24.99%	24.61%	43.71%	50.89%	4.76%	5.11%	0.86%	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-12	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
Remaining Gas In Place July 2002		181.660
Produced July 2002 through Dec 2002		1.096
Production 2003 - 11		64.030
Injection 2003 - 11		(1.189)
Produced to Date 2012		8.101
Injected to Date 2012		(0.000)
Amount of Raw Gas Available to CHEU		109.622 =====> 14.628 total helium in reservoir
Estimated Bottom Hole Pressure		403.634
		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 - 2012

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-12	690,250	69,666,746	178,068	17,957,012	172,682	17,485,788	301,500	30,398,210	32,143	3,237,958	5,856	587,776
Calculated Feed	Dec-12	687,830	69,330,305	176,967	17,951,942	171,858	17,403,366	300,423	30,163,147	32,695	3,226,261	5,887	585,590
Feed to Box	Dec-12	683,581	68,920,838	176,967	17,952,120	171,858	17,403,448	300,423	30,163,193	32,695	3,226,268	1,638	175,809
Cheu Product	Dec-12	225,754	22,546,898	176,624	17,729,291	42,921	4,222,382	4,615	437,725	(0)	397	1,594	157,103
Residue	Dec-12	310,082	30,460,492	0	1,477	7,003	764,840	276,523	27,009,583	26,556	2,683,353	0	1,238
Cold Box Vent	Dec-12	113,199	11,841,207	88	85,961	104,195	10,471,021	8,894	1,223,476	(0)	135	22	60,615
Flare/Boot Strap	Dec-12	113,199	2,357,456	88	46,740	104,195	1,726,023	8,894	485,645	(0)	93,600	22	5,448
Fuel From Cheu	Dec-12	8,562	937,225	0	245	274	28,331	7,039	760,932	1,249	147,718	0	0
Shrinkage/Loss	Dec-12	4,890	288,897	0	0	0	0	0	0	4,890	288,897	0	0
Unaccounted*	Dec-12	21,094	1,905,508	256	81,112	17,466	1,556,414	3,351	264,368	0	1,084	21	2,530

*Before October 2004, the values are estimated

Storage Operations

Inventory (contained helium)

	Government	Private
Beginning inventory	10,869,156	1,505,486
net acceptances + redeliveries	0	0
In Kind Transfers	(93)	93
Conservation Crude Sales	0	0
Gain/loss	(3,814)	
Ending Inventory	10,865,249	1,328,673
Total Helium in Reservoir	14,627,701	
Total Helium in Storage	12,193,922	
Helium in native gas	2,433,779	

Crude Helium Pipeline

	Gross	Net Helium	Percent
Beginning inventory	42,196	32,065	75.99%
Measured to Pipeline (Private Plants)	56,402	37,077	65.74%
Measured from Pipeline (Private Plant)	283,074	213,848	75.54%
HEU Production	225,754	176,624	78.24%
Injection	0	0	00.00%
Production	0	0	
Ending Inventory	37,154	28,104	75.64%
Gain/Loss	(4,124)	(3,814)	

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 - 2012

	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	12,521	2,144	16	25	4,767	14,605	34,078	33,554	\$2,197,787	
Total FYTD	12,521	2,144	16	25	4,767	14,605	34,078	33,554	\$2,197,787	
Total CYTD	56,431	9,296	80	119	20,562	69,356	155,844	153,440	\$10,050,305	
Cumulative	1,696,735	97,452	344	271,511	402,182	529,264	2,997,488	2,951,037	\$163,669,478	
In Kind Transfers							Month	FYTD	CYTD	Cumulative
Transferred							93	46,956	158,227	2,917,083
Volume outstanding							34,029			

* 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 - 2012

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	(185,535)	185,535	\$15,584,940	
FYTD	185,535	0	185,535	\$15,584,940	
Cumulative	6,495,940		6,495,940	\$414,562,819	
<u>Linde Gas North America, LLC</u>					
Month	0	(136,185)	136,185	\$11,439,540	
FYTD	136,185	0	136,185	\$11,439,540	
Cumulative	5,060,305		5,060,305	\$312,604,068	
<u>Keyes Helium Co., LLC</u>					
Month	0	(27,615)	27,615	\$2,319,660	
FYTD	27,615	0	27,615	\$2,319,660	
Cumulative	811,045		811,045	\$50,449,483	
<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	(175,665)	175,665	\$14,755,860	
FYTD	175,665	0	175,665	\$14,755,860	
Cumulative	3,847,060		3,847,060	\$251,811,531	
<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	(525,000)	525,000	\$44,100,000	
Total FYTD	525,000	0	525,000	\$44,100,000	
Total CYTD	2,100,000		2,100,000	\$163,406,250	
Cumulative	16,688,600		16,688,600	\$1,059,352,650	
Conservation Crude Transfers					
Transferred		Month	FYTD	CYTD	Cumulative
Volume outstanding		0	525,000	2,025,000	16,163,600
		525,000			

* 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>					
Month	306,251	---	336,062	1,097	(\$27,997)
FYTD	927,661	---	1,015,953	1,095	(\$85,680)
Cumulative	29,866,703	---	32,812,254	1,099	(\$3,320,168)
<u>Minerals Management Service</u>					
Cumulative	---	---	---	---	(\$179,913)
<u>Tenaska</u>					
Month	---	---	338,400	\$3.134826	\$1,060,825
FYTD	---	---	991,022	\$3.146610	\$3,118,359
Cumulative	---	---	32,576,435	\$5.020905	\$162,736,637
<u>Sandstone</u>					
Month	---	107,953	11,443	\$14.007774	\$160,291
FYTD	---	340,928	36,309	\$13.469522	\$489,065
Cumulative	---	8,617,878	919,443	\$12.367831	\$11,371,515
	Natural Gas (Mcf)***	NGLs (gal)	Purchased (Dth's)	\$\$ Per Unit (\$\$/Dth)	Total (\$\$)
Total month	306,251	107,953	349,843	\$3.410441	\$1,193,119
Total FYTD	927,661	340,928	1,027,331	\$3.428052	\$3,521,744
Total CYTD	3,551,237	1,276,447	3,956,197	\$2.814232	\$11,133,655
Cumulative	29,866,703	8,617,878	33,495,878	\$5.118081	\$170,608,070

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

**Rounded to nearest dollar

Table 6 - Helium Resources Evaluation

December - 2012

All Volumes in Mcf at 14.7 psia & 70°F

Revenue Collected From Federal Leaseholds	Month*	FYTD*
Fee Sales & Royalties	\$873,876	\$3,245,118
Natural Gas Royalties (1)	\$0	\$6,280
Natural Gas Rentals	\$0	\$0
Other	\$27,892	\$109,680
Revenue Collected from Federal Lease Holds	\$871,976	\$3,279,290

*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	57
Total Number of Samples Analyzed For Resources Division	0	57
Total Number of Other Samples Analyzed (2)	16	68

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	4,691,100	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 - 2012

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	56,402	65.5%	36,942	108,033	375,991	30,387,030	30,191	49,090,594		
Crude Disposed	283,074	75.5%	213,848	628,232	2,453,018	46,017,909	30,098	30,652,324	\$293,786	Storage Fees
Grade-A Rdlvrd	0		0	0	0	1,478,718			\$237,979	RMF Fees
Net/Balance	(226,672)		(176,906)	(520,199)	(2,077,027)	(17,109,597)	93	18,438,270	1,328,673	\$531,764 \$1,307,978
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	10,869,156
Crude Disposed: In Kind Sales transferred for the month	(93)
Conservation Crude Sales/Reserve Sell Down transferred (month)	0
Gains and Losses for the month	(3,814)
Net/Balance of Purchased Helium Remaining for Sale	10,865,249

*Includes In Kind and Conservation Crude transfers from Government storage

**Rounded to nearest dollar

Table 8 - Compression & CHEU (Charges & Operations)

December - 2012

Field/CHEU Compressor Operations

Field/CHEU Compressor Operations		Month	FYTD	Cumulative
Spot gas fuel price *	\$ per/MMBTU	\$3.13	\$4.28	\$5.22
Fuel used * (now includes field compression well head)	total MMBTU	12,035	36,790	1,310,324
Field Compression Fuel Cost *	\$dollars	\$0	\$0	\$654,398
CHEU Compression Fuel Cost *	\$dollars	\$19,321	\$51,902	\$3,610,657
CHEU Process Fuel Cost *	\$dollars	\$11,659	\$34,435	\$2,424,435
Rental compressor(s) fuel consumed (well head)	\$dollars	\$6,689	\$29,191	\$48,284
Rental Compressor(s) helium in fuel (Mcf x \$\$)	\$dollars	\$14,364	\$42,000	\$99,526
Rental compressor(s) helium in fuel (Mcf)	Mcf	171	500	1260
#1 Compressor run time *	hours	743	2,208	76,985
#2 Compressor run time *	hours	531	1,131	50,419
#3 Compressor run time *	hours	192	1,084	40,818

* Field/CHEU Compressor Operations based on Dec 12 activity

Field Compressor Charges

Field Compressor Charges	Charges Billed (\$)*		
	Month	FYTD	Cumulative
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)	(\$55,778)	(\$167,333)	(\$9,294,294)
Cliffside Refiners, LP, GDA010003 (BLM provided fuel *, labor, supplies, etc.)	\$12,540	\$37,621	\$2,323,961
Net Total - Cliffside Refiners, LP	(\$43,238)	(\$129,713)	(\$6,970,333)

* BLM provided fuel cost is based on Nov 12 fuel consumed

*Rounded to nearest dollar

Crude Helium Enrichment Unit (CHEU) CHEU Runtime

Crude Helium Enrichment Unit (CHEU) CHEU Runtime	Month		FYTD		Cumulative
	Runtime Hrs	Percent	Runtime Hrs	Percent	Runtime Hrs
Processing feed gas	744	100.0%	2,209	100.0%	80,835
Producing residue gas	744	100.0%	2,209	100.0%	79,938
Producing helium product	744	100.0%	2,209	100.0%	77,030
Producing natural gas liquids	744	100.0%	2,209	100.0%	75,534

CHEU Charges

CHEU Charges	Charges Billed (\$)*		
	Month	FYTD	Cummulative
Reservoir Management Fees (RMF)	\$237,979	\$700,326	\$23,535,598
Total operating costs	(\$812,858)	(\$2,463,229)	(\$99,691,838)
Labor	\$91,255	\$273,765	\$9,430,026
Compressor fuel cost Nov 12	\$17,279	\$46,970	\$3,642,151
HEU fuel cost Nov 12	\$11,647	\$31,558	\$2,457,603
Electrical power cost Nov 12	\$116,664	\$381,184	\$14,950,699
Other	\$82,328	\$248,695	\$9,810,030
Sub Total - Items provided by BLM	\$319,173	\$982,173	\$43,499,864
Total - Cliffside Refiners, LP, GDA030001	(\$493,685)	(\$1,481,056)	(\$56,191,974)

*Rounded to nearest dollar

CHEU Utility Usage

CHEU Utility Usage	Month	FYTD	Cumulative
CheU Fuel Gas (Mcf) usage Dec 12	3,222	9,472	416,195
CheU Pure Water Usage (gallons) Dec 12	793	2,622	260,214
Electricity Metered (Kwh) consumed Nov 12	2,692,282	8,327,775	8,327,775