

Bureau of Land Management

Amarillo Field Office

Helium Operations



Statistical Report
for
April - 2013



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

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Amarillo, Texas

Compiled by: David V. Reeves

Issued: August 13, 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: August 13, 2013

Table 1 - Summary of Helium Operations

April - 2013

Helium Enrichment Unit Operations

Gas Processed	Month			Gross FYTD	Net FYTD
	Gross Volume	Net Helium	Average Percent		
Measured Plant Feed (Mcf*)	638,961	161,055	25.21%	4,639,379	1,184,523
Helium Product (Mcf*)	199,702	155,003	77.62%	1,494,851	1,168,076
Residue Natural Gas (Mcf*)	289,056	0	00.00%	2,092,683	0

* Volumes in Mcf at 14.65 psia & 60°F

Natural Gas & Liquids Produced

Gas Processed	Month	FYTD
Natural Gas Sales (Mcf***)	277,296	2,057,216
NGL Sales (gallons)	114,654	789,548

*** 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Total Withdrawn (Mcf*)	635,577	155,513	24.47%	4,641,594	1,173,942
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*)		0	1,050,000	525,000	17,213,600
Conservation Crude Sale Volume Transferred (Mcf*)	0	525,000	1,575,000	1,050,000	17,213,600
Conservation Helium in Storage (EOM) (Mcf*)		9,776,688			

* Volumes in Mcf at 14.65 psia & 60°F

In Kind Helium

	Month	FYTD	CYTD	Cumulative
Sale Volumes Transferred (Mcf*)	0	79,028	32,072	2,949,155
Sale Volumes Outstanding (Mcf*)	35,450			

* 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*)	51,196	33,293	65.03%	238,269
Crude Disposed (Mcf*)	244,731	183,927	75.15%	1,390,319
Net Balance (Mcf*)	(193,535)	(150,634)		(1,152,050)
Balance of Stored Helium End Of Month (Mcf*)		1,778,894		

* Volumes in Mcf at 14.65 psia & 60°F

Revenue / Charges

Helium Storage Contracts (Charges Billed (\$))	Month	FYTD
Storage Fees Billed (\$)	\$293,325	\$1,797,986
Reservoir Management Fees Billed (\$)	\$199,299	\$1,537,292

Field Compressor Charges (Charges Billed (\$))

	Month	FYTD
Funded by the Refiners (provides for booster compression services)	(\$55,778)	(\$390,445)
Cliffside Refiners, LP, by Agreement #GDA010003 (reimburses BLM for fuel, labor, supplies, etc.)	\$12,540	\$87,782
Net-Total (Funded by the Refiners for compression costs.)	(\$43,238)	(\$302,663)

Enrichment Unit Charges (Charges Billed (\$))

	Month	FYTD
Reservoir Management Fees (RMF)	\$199,299	\$1,537,292
Total operating costs	(\$823,863)	(\$5,657,191)
Sub Total - Items provided by BLM	\$330,178	\$2,201,393
Total - Cliffside Refiners, LP, GDA030001	(\$493,685)	(\$3,455,797)

Conservation Helium - Natural Gas - Liquid Sales

(Charges Billed (\$))	Month	FYTD
Conservation Crude Helium Sales	\$0	\$88,200,000
In Kind Sales	\$0	\$4,466,294
Natural Gas & Liquid Sales	\$1,367,777	\$8,253,013

Helium Resources Evaluation

	Month	FYTD
Revenue Collected from Federal Lease Holds	\$955,737	\$7,322,124
Helium Sample Collection Report for month	Submitted - 0	Received - 0
		Analyzed - 13

*Rounded to nearest dollar

Table 2 - Bush Dome Reservoir Operations

April - 2013

		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		635,577	207,073,608	155,513	38,599,896	159,336	50,964,068	284,383	105,217,514	30,767	10,572,646	5,578	1,719,484
BIVINS A-3	Apr-13	16,631	10,914,144	8,162	3,526,794	4,214	2,760,270	3,724	4,147,755	418	405,991	113	73,334
BIVINS A-6	Apr-13	59,951	10,321,645	36,017	6,150,434	15,231	2,532,013	7,503	1,451,162	764	142,834	436	45,201
BIVINS A-13	Apr-13	52,336	7,126,510	19,568	3,974,546	13,224	1,839,205	17,165	1,149,194	1,988	124,854	392	38,711
BIVINS A-14	Apr-13	69,960	7,880,422	29,102	4,895,345	17,680	2,001,365	20,328	852,371	2,272	89,661	578	41,679
BIVINS A-4	Apr-13	37,571	12,363,755	6,285	2,243,999	9,088	2,997,490	19,727	6,376,393	2,102	637,352	370	108,520
BUSH A-2	Apr-13	50,374	11,659,632	3,838	1,780,668	12,102	2,851,127	30,714	6,290,964	3,278	637,341	442	99,532
Injection	Apr-13	0	66,240,889	0	47,846,276	0	17,067,782	0	775,688	0	23	0	551,121
inj Bivins A-3	Apr-13	0	(25,652,315)	0	(18,384,452)	0	(6,554,549)	0	(332,777)	0	0	0	(380,537)
inj Bivins A-6	Apr-13	0	(24,201,365)	0	(17,514,139)	0	(6,437,517)	0	(138,222)	0	(12)	0	(111,475)
inj Bivins A-13	Apr-13	0	(6,490,417)	0	(4,706,191)	0	(1,656,853)	0	(122,391)	0	(2)	0	(4,980)
inj Bivins A-14	Apr-13	0	(6,501,333)	0	(4,767,421)	0	(1,602,106)	0	(126,303)	0	(7)	0	(5,497)
inj Bivins A-4	Apr-13	0	(2,527,801)	0	(1,848,815)	0	(601,353)	0	(42,016)	0	0	0	(35,617)
inj Bush A-2	Apr-13	0	(867,658)	0	(625,258)	0	(215,406)	0	(13,980)	0	0	0	(13,015)
Production	Apr-13	0	1,217,868	0	897,578	0	261,663	0	47,122	0	3,172	0	8,333
BIVINS A-1	Apr-13	0	2,686,608	0	48,896	0	636,995	0	1,798,415	0	175,704	0	26,597
BIVINS A-2	Apr-13	18,331	13,372,975	833	1,858,490	4,292	3,282,494	11,783	7,388,109	1,245	733,715	177	110,167
BIVINS A-5	Apr-13	34,876	15,177,562	6,772	1,886,947	8,840	3,713,452	17,077	8,585,384	1,909	859,712	278	132,068
BIVINS A-7	Apr-13	26,148	11,157,926	8,331	2,581,388	6,778	2,804,931	9,756	5,166,391	1,108	523,778	175	81,438
BIVINS A-9	Apr-13	24,473	9,652,611	514	182,057	6,339	2,365,526	15,753	6,374,264	1,671	641,946	196	88,819
BIVINS A-11	Apr-13	26,349	5,794,983	748	120,038	6,754	1,436,978	16,815	3,794,833	1,788	388,521	245	54,613
BIVINS A-15	Apr-13	26,687	8,742,722	469	411,773	6,307	2,085,306	17,775	5,597,834	1,821	559,062	315	88,747
BIVINS B-1	Apr-13	26,350	6,952,551	682	274,658	6,428	1,683,721	17,150	4,471,102	1,802	454,601	288	68,470
BIVINS B-2	Apr-13	32,550	5,704,729	619	107,318	8,329	1,424,792	20,864	3,714,323	2,194	381,090	543	77,206
BUSH A-1	Apr-13	0	5,721,962	0	104,140	0	1,356,677	0	3,830,281	0	374,216	0	56,647
BUSH A-3	Apr-13	38,208	11,134,342	14,455	2,523,992	9,726	2,746,535	12,326	5,238,960	1,385	527,132	316	97,723
BUSH A-4	Apr-13	20,256	8,054,534	3,067	1,510,812	5,164	2,011,644	10,730	4,060,885	1,176	412,438	118	58,755
BUSH A-5	Apr-13	50,825	15,222,158	15,425	3,424,835	12,934	3,815,499	19,925	7,151,753	2,241	722,862	300	107,210
BUSH A-8	Apr-13	13,922	3,717,953	258	68,183	3,465	896,741	9,045	2,460,659	939	247,535	215	44,835
BUSH A-9	Apr-13	5,541	3,858,370	276	104,906	1,424	930,290	3,436	2,535,593	373	253,290	32	34,291
BUSH A-11	Apr-13	2,380	4,270,200	58	126,402	568	1,021,274	1,560	2,790,978	162	283,097	32	48,448
BUSH B-1	Apr-13	1,857	3,195,267	34	60,012	449	757,958	1,227	2,135,969	131	210,008	15	31,319
FUQUA A-1	Apr-13	0	2,954,094	0	53,854	0	702,797	0	1,975,172	0	193,572	0	28,699
FUQUA A-2	Apr-13	0	132,119	0	2,404	0	31,322	0	88,458	0	8,637	0	1,297
FUQUA A-3	Apr-13	0	9,303,833	0	577,004	0	2,277,668	0	5,790,310	0	583,696	0	75,155
TT Fuel	Apr-13	0	0	0	0	0	0	0	0	0	0	0	0
field-wide pcts				24.47%	18.64%	25.07%	24.61%	44.74%	50.81%	4.84%	5.11%	0.88%	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	Apr-13	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 - 12		72.131	19.611
Injection 2003 - 12		(1.189)	(0.985)
Produced to Date 2013		2.563	0.641
Injected to Date 2013		0.000	0.000
Amount of Raw Gas Available to CHEU		107.058	=====> 13.987 total helium in reservoir
Estimated Bottom Hole Pressure		394.203	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

April - 2013

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	Apr-13	638,961	72,228,957	161,055	18,606,448	159,898	18,126,759	282,452	31,527,786	30,077	3,358,293	5,480	609,671
Calculated Feed	Apr-13	634,677	71,889,863	155,467	18,592,642	159,108	18,040,088	283,823	31,297,236	30,707	3,351,820	5,572	608,077
Feed to Box	Apr-13	630,549	71,463,848	155,467	18,592,821	159,108	18,040,170	283,823	31,297,282	30,707	3,351,827	1,444	181,748
Cheu Product	Apr-13	199,702	23,365,051	155,003	18,366,842	39,404	4,380,826	3,882	454,092	0	400	1,413	162,890
Residue	Apr-13	289,056	31,612,322	0	1,477	6,682	791,329	257,826	28,036,408	24,548	2,781,869	0	1,238
Cold Box Vent	Apr-13	104,653	12,256,305	76	86,298	95,828	10,851,862	8,724	1,257,309	0	135	25	60,701
Flare/Boot Strap	Apr-13	104,653	2,772,554	76	47,077	95,828	2,106,864	8,724	519,478	0	93,600	25	5,535
Fuel From Cheu	Apr-13	8,135	968,858	0	245	259	29,341	6,692	786,946	1,184	152,326	0	0
Shrinkage/Loss	Apr-13	4,975	310,232	0	0	0	0	0	0	4,975	310,232	0	0
Unaccounted*	Apr-13	24,028	1,992,426	388	83,236	16,934	1,619,301	6,699	286,226	0	1,085	7	2,578

*Before October 2004, the values are estimated

Storage Operations

Inventory (contained helium)			Crude Helium Pipeline			
	Government	Private		Gross	Net Helium	Percent
Beginning inventory	10,303,854	1,404,528	Beginning inventory	34,792	26,097	75.01%
net acceptances + redeliveries	0	0	Measured to Pipeline (Private Plants)	51,466	33,360	64.82%
In Kind Transfers	0	0	Measured from Pipeline (Private Plant)	244,731	183,927	75.15%
Conservation Crude Sales	(525,000)	525,000	HEU Production	199,702	155,003	77.62%
Gain/loss	(2,166)		Injection	0	0	00.00%
Ending Inventory	9,776,688	1,778,894	Production	0	0	
Total Helium in Reservoir	13,986,792		Ending Inventory	37,785	28,367	75.07%
Total Helium in Storage	11,555,582		Gain/Loss	(3,444)	(2,166)	
Helium in native gas	2,431,210					

Tuck Trigg Reservoir Operations

Native Gas (Gross)	Month	Fiscal Year	Since Field
			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

April - 2013

	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	0	0	0	0	0	0	0	0	\$0	
Total FYTD	21,772	4,066	37	44	10,059	32,120	68,097	67,047	\$4,466,294	
Total CYTD	9,251	1,922	21	19	5,292	17,515	34,019	33,493	\$2,268,507	
Cumulative	1,705,985	99,374	366	271,530	407,474	546,779	3,031,507	2,984,530	\$165,937,986	
In Kind Transfers							Month	FYTD	CYTD	Cumulative
Transferred							0	79,028	32,072	2,949,155
Volume outstanding							35,450			

* 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

April - 2013

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	6,300	0	6,300	\$529,200	
Cumulative	270,550		270,550	\$18,831,450	
<u>Air Products, L.P.</u>					
Month	185,535	0	0	\$0	
FYTD	555,030	185,535	369,495	\$31,037,580	
Cumulative	6,865,435		6,679,900	\$430,015,459	
<u>Linde Gas North America, LLC</u>					
Month	136,185	0	0	\$0	
FYTD	406,980	136,185	270,795	\$22,746,780	
Cumulative	5,331,100		5,194,915	\$323,911,308	
<u>Keyes Helium Co., LLC</u>					
Month	27,615	0	0	\$0	
FYTD	81,270	27,615	53,655	\$4,507,020	
Cumulative	864,700		837,085	\$52,636,843	
<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	175,665	0	0	\$0	
FYTD	525,420	175,665	349,755	\$29,379,420	
Cumulative	4,196,815		4,021,150	\$266,435,091	
<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	525,000	0	0	\$0	
Total FYTD	1,575,000	525,000	1,050,000	\$88,200,000	
Total CYTD	1,050,000		525,000	\$44,100,000	
Cumulative	17,738,600		17,213,600	\$1,103,452,650	
Conservation Crude Transfers					
Transferred		Month	FYTD	CYTD	Cumulative
Volume outstanding		525,000	1,575,000	1,050,000	17,213,600

* 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	277,296	---	303,853	1,096	(\$28,095)
FYTD	2,057,216	---	2,254,848	1,096	(\$200,125)
Cumulative	30,996,258	---	34,051,149	1,099	(\$3,434,613)
<u>Minerals Management Service</u>					
No Longer Provides Natural Gas Marketing Services					
Cumulative	---	---	---	---	(\$179,913)
<u>Tenaska</u>					
Purchaser - Natural Gas					
Month	---	---	316,061	\$3.937971	\$1,244,639
FYTD	---	---	2,208,483	\$3.326175	\$7,345,800
Cumulative	---	---	33,793,896	\$4.965116	\$166,964,078
<u>Sandstone</u>					
Purchaser - Natural Gas Liquids					
Month	---	114,654	12,187	\$12.409341	\$151,233
FYTD	---	789,548	83,752	\$13.221627	\$1,107,338
Cumulative	---	9,066,498	966,886	\$12.400415	\$11,989,788
	Natural Gas (Mcf)***	NGLs (gal)	Purchased (Dth's)	\$\$ Per Unit (\$\$/Dth)	Total (\$\$)
Total month	277,296	114,654	328,248	\$4.166901	\$1,367,777
Total FYTD	2,057,216	789,548	2,292,235	\$3.600422	\$8,253,013
Total CYTD	1,129,555	448,620	1,264,904	\$3.740417	\$4,731,269
Cumulative	30,996,258	9,066,498	34,760,782	\$5.067950	\$175,339,339

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

**Rounded to nearest dollar

Table 6 - Helium Resources Evaluation

April - 2013

All Volumes in Mcf at 14.7 psia & 70°F

Revenue Collected From Federal Leaseholds	Month*	FYTD*
Fee Sales & Royalties	\$980,012	\$7,287,628
Natural Gas Royalties (1)	\$0	\$6,280
Natural Gas Rentals	\$0	\$0
Other	\$28,216	\$225,023
Revenue Collected from Federal Lease Holds	\$955,737	\$7,322,124

*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	72
Total Number of Samples Analyzed For Resources Division	15	85
Total Number of Other Samples Analyzed (2)	13	144

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

April - 2013

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
				FYTD	CYTD	Cumulative					
Total All Contracts*											
Crude Acquired	51,196	65.0%	33,293	238,269	130,236	30,517,266	552,043	50,319,760			
Crude Disposed	244,731	75.2%	183,927	1,390,319	762,087	46,779,996	27,043	30,799,418			\$293,325 Storage Fees
Grade-A Rdlvrd	0		0	0	0	1,478,718					\$199,299 RMF Fees
Net/Balance	(193,535)		(150,634)	(1,152,050)	(631,851)	(17,741,448)	525,000	19,520,342	1,778,894		\$492,625 \$3,335,278
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	0	---	0	0	0	0	0	0			\$0 Storage Fees
Crude Disposed	0	---	0	0	0	0	0	0	0.0%		\$0 RMF Fees
Net/Balance	0		0	0	0	0	0	0	0		\$0 \$7,000

Government Helium	
Remaining Crude Acquired beginning of the month	10,303,854
Crude Disposed: In Kind Sales transferred for the month	0
Conservation Crude Sales/Reserve Sell Down transferred (mon)	(525,000)
Gains and Losses for the month	(2,166)
Net/Balance of Purchased Helium Remaining for Sale	9,776,688

*Includes In Kind and Conservation Crude transfers from Government storage

**Rounded to nearest dollar

Table 8 - Compression & CHEU (Charges & Operations)

April - 2013

Field/CHEU Compressor Operations		Month	FYTD	Cumulative
Spot gas fuel price *	\$ per/MMBTU	\$3.94	\$4.40	\$5.19
Fuel used * (now includes field compression well head)	total MMBTU	12,000	84,226	1,357,760
Field Compression Fuel Cost *	\$dollars	\$0	\$0	\$654,398
CHEU Compression Fuel Cost *	\$dollars	\$22,891	\$128,258	\$3,687,013
CHEU Process Fuel Cost *	\$dollars	\$14,160	\$86,031	\$2,476,031
Rental compressor(s) fuel consumed (well head)	\$dollars	\$10,228	\$66,115	\$85,208
Rental Compressor(s) helium in fuel (Mcf x \$\$)	\$dollars	\$11,256	\$89,880	\$147,406
Rental compressor(s) helium in fuel (Mcf)	Mcf	134	1070	1830
#1 Compressor run time *	hours	695	4,707	79,484
#2 Compressor run time *	hours	240	1,818	51,106
#3 Compressor run time *	hours	504	3,589	43,323

* Field/CHEU Compressor Operations based on Apr 13 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)	(\$55,778)	(\$390,445)	(\$9,517,405)
Cliffside Refiners, LP, GDA010003 (BLM provided fuel *, labor, supplies, etc.)	\$12,540	\$87,782	\$2,374,122
Net Total - Cliffside Refiners, LP	(\$43,238)	(\$302,663)	(\$7,143,283)

* BLM provided fuel cost is based on Mar 13 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%	5,072	99.7%	83,698
Producing residue gas	720	100.0%	5,052	99.3%	82,781
Producing helium product	720	100.0%	5,028	98.8%	79,849
Producing natural gas liquids	720	100.0%	5,045	99.2%	78,370

CHEU Charges	Charges Billed (\$)*		
	Month	FYTD	Cumulative
Reservoir Management Fees (RMF)	\$199,299	\$1,537,292	\$24,372,564
Total operating costs	(\$823,863)	(\$5,657,191)	(\$102,885,800)
Labor	\$91,255	\$638,786	\$9,795,047
Compressor fuel cost Mar 13	\$19,116	\$119,756	\$3,714,937
HEU fuel cost Mar 13	\$15,048	\$80,653	\$2,506,698
Electrical power cost Mar 13	\$122,569	\$785,699	\$15,355,214
Other	\$82,190	\$576,500	\$10,137,834
Sub Total - Items provided by BLM	\$330,178	\$2,201,393	\$44,719,085
Total - Cliffside Refiners, LP, GDA030001	(\$493,685)	(\$3,455,797)	(\$58,166,715)

***Rounded to nearest dollar**

CHEU Utility Usage	Month	FYTD	Cumulative
Cheu Fuel Gas (Mcf) usage Apr 13	3,109	22,337	429,060
Cheu Pure Water Usage (gallons) Apr 13	394	7,755	265,347
Electricity Metered (Kwh) consumed Mar 13	2,842,793	19,919,037	19,919,037