

Bureau of Land Management

Amarillo Field Office

Helium Operations



Statistical Report for April - 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: September 19, 2014

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

Brent Gage (Acting)

Date: *September 17, 2014*

Table 1 - Summary of Helium Operations

April - 2014

Helium Enrichment Unit Operations

Gas Processed	Month			Gross FYTD	Net FYTD
	Gross Volume	Net Helium	Average Percent		
Measured Plant Feed (Mcf*)	553,041	113,843	20.58%	3,965,420	859,277
Helium Product (Mcf*)	147,695	111,903	75.77%	1,109,622	845,662
Residue Natural Gas (Mcf*)	269,539	6	0.00%	1,914,074	7

* Volumes in Mcf at 14.65 psia & 60°F

Natural Gas & Liquids Produced

Gas Processed	Month	FYTD
Natural Gas Sales (Mcf****)	269,551	1,940,291
NGL Sales (gallons)	79,615	666,533

*** 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Total Withdrawn (Mcf*)	553,144	112,722	20.38%	3,969,002	852,638
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	290,442	268,402	18,532,002
Conservation Crude Sale Volume Transferred (Mcf*)	0	0	613,012	268,402	18,532,002
Conservation Helium in Storage (EOM) (Mcf*)		8,314,123			

* Volumes in Mcf at 14.65 psia & 60°F

In Kind Helium

	Month	FYTD	CYTD	Cumulative
Sale Volumes Transferred (Mcf*)	1,001	62,455	32,413	3,078,898
Sale Volumes Outstanding (Mcf*)	27,595			

* 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*)	45,984	29,932	65.09%	233,716
Crude Disposed (Mcf*)	182,925	133,753	73.12%	1,063,414
Net Balance (Mcf*)	(136,941)	(103,821)		(829,698)
Balance of Stored Helium End Of Month (Mcf*)		1,689,312		

* Volumes in Mcf at 14.65 psia & 60°F

Revenue / Charges

Helium Storage Contracts (Charges Billed (\$))	Month	FYTD
Storage Fees Billed (\$)	\$294,696	\$1,757,124
Reservoir Management Fees Billed (\$)	\$178,494	\$1,425,639

Field Compressor Charges (Charges Billed (\$))

	Month	FYTD
Funded by the Refiners (provides for booster compression services)	(\$60,945)	(\$426,613)
Cliffside Refiners, LP, by Agreement #GDA010003 (reimburses BLM for fuel, labor, supplies, etc.)	\$16,364	\$114,551
Net-Total (Funded by the Refiners for compression costs.)	(\$44,580)	(\$312,062)

Enrichment Unit Charges (Charges Billed (\$))

	Month	FYTD
Reservoir Management Fees (RMF)	\$178,494	\$1,425,639
Total operating costs	(\$896,423)	(\$6,335,643)
Sub Total - Items provided by BLM	\$394,564	\$2,822,630
Total - Cliffside Refiners, LP, GDA030001	(\$501,859)	(\$3,513,013)

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

	Month	FYTD
Conservation Crude Helium Sales	\$0	\$27,305,550
In Kind Sales	\$0	\$4,050,756
Natural Gas & Liquid Sales	\$1,224,025	\$10,185,888

Helium Resources Evaluation

	Month	FYTD
Revenue Collected from Federal Lease Holds	\$1,244,297	\$8,679,825
Helium Sample Collection Report for month	Submitted - 0	Received - 0
	Analyzed - 17	

*Rounded to nearest dollar

Table 2 - Bush Dome Reservoir Operations

April - 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		553,144	213,961,590	112,722	40,162,841	138,392	52,692,514	268,006	108,408,292	28,982	10,917,413	5,043	1,780,530
BIVINS A-3	Apr-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	Apr-14	46,963	10,936,513	25,594	6,502,180	11,947	2,688,439	8,213	1,543,758	861	152,430	348	49,706
BIVINS A-13	Apr-14	55,792	7,785,536	19,947	4,214,684	14,072	2,005,608	19,107	1,370,812	2,242	150,744	424	43,688
BIVINS A-14	Apr-14	51,162	8,620,203	18,828	5,184,627	12,895	2,188,133	17,070	1,083,807	1,929	115,712	440	47,925
BIVINS A-4	Apr-14	29,673	12,760,951	3,932	2,302,596	7,126	3,093,187	16,557	6,592,407	1,753	660,247	305	112,515
BUSH A-2	Apr-14	43,073	12,214,451	5,080	1,851,917	10,772	2,989,969	24,208	6,597,532	2,711	671,622	302	103,411
Injection	Apr-14	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-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	Apr-14	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-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	Apr-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	Apr-14	0	(2,527,801)	0	(1,848,815)	0	(601,353)	0	(42,016)	0	0	0	(35,617)
inj Bush A-2	Apr-14	0	(867,658)	0	(625,258)	0	(215,406)	0	(13,980)	0	0	0	(13,015)
Production	Apr-14	0	1,217,868	0	897,578	0	261,663	0	47,122	0	3,172	0	8,333
BIVINS A-1	Apr-14	0	2,686,608	0	48,896	0	636,995	0	1,798,415	0	175,704	0	26,597
BIVINS A-2	Apr-14	19,500	13,589,490	718	1,866,227	4,536	3,333,488	12,710	7,528,978	1,343	748,494	193	112,302
BIVINS A-5	Apr-14	26,830	15,538,851	4,727	1,953,669	6,809	3,805,169	13,602	8,765,767	1,485	879,396	207	134,851
BIVINS A-7	Apr-14	20,906	11,434,221	6,553	2,669,184	5,420	2,876,535	7,899	5,269,761	894	535,443	140	83,298
BIVINS A-9	Apr-14	18,801	9,876,159	399	186,772	4,869	2,423,428	12,105	6,518,185	1,277	657,159	152	90,615
BIVINS A-11	Apr-14	21,096	6,091,316	617	128,593	5,401	1,512,906	13,451	3,983,859	1,429	408,589	197	57,369
BIVINS A-15	Apr-14	32,018	9,086,975	559	417,790	7,561	2,166,636	21,336	5,827,215	2,182	582,503	381	92,831
BIVINS B-1	Apr-14	36,190	7,308,510	866	283,392	8,827	1,770,571	23,619	4,703,287	2,470	478,835	409	72,424
BIVINS B-2	Apr-14	29,009	6,075,326	552	114,372	7,414	1,519,595	18,599	3,951,912	1,952	406,013	493	83,434
BUSH A-1	Apr-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	Apr-14	26,744	11,527,604	8,958	2,663,886	6,784	2,846,457	9,698	5,374,029	1,081	542,242	222	100,990
BUSH A-4	Apr-14	18,359	8,267,886	2,253	1,539,526	4,676	2,066,021	10,212	4,177,263	1,113	425,081	105	59,995
BUSH A-5	Apr-14	42,841	15,755,296	12,473	3,583,139	10,900	3,951,175	17,286	7,364,071	1,929	746,587	253	110,324
BUSH A-8	Apr-14	20,712	3,872,814	384	70,885	5,157	935,497	13,450	2,561,847	1,397	257,471	325	47,114
BUSH A-9	Apr-14	0	3,860,915	0	105,037	0	930,915	0	2,537,187	0	253,463	0	34,312
BUSH A-11	Apr-14	5,963	4,368,102	141	128,773	1,425	1,044,683	3,912	2,855,146	405	289,753	80	49,747
BUSH B-1	Apr-14	7,511	3,230,703	140	60,666	1,801	766,487	4,972	2,159,421	530	212,500	68	31,629
FUQUA A-1	Apr-14	0	2,954,098	0	53,854	0	702,798	0	1,975,175	0	193,573	0	28,699
FUQUA A-2	Apr-14	0	132,119	0	2,404	0	31,322	0	88,458	0	8,637	0	1,297
FUQUA A-3	Apr-14	0	9,303,868	0	577,004	0	2,277,677	0	5,790,333	0	583,698	0	75,155
TT Fuel	Apr-14	53	0	1	0	13	0	35	0	4	0	0	0
field-wide pcts				20.38%	18.77%	25.02%	24.63%	48.45%	50.67%	5.24%	5.10%	0.91%	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-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	2.151	0.444
Injected to Date 2014	0.000	0.000
Amount of Raw Gas Available to CHEU	100.171	=====> 12.424 total helium in reservoir
Estimated Bottom Hole Pressure	368.866	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 - 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	Apr-14	553,041	79,156,379	113,843	20,194,071	137,900	19,861,067	267,633	34,729,359	28,636	3,700,797	5,029	671,085
Calculated Feed	Apr-14	553,201	78,776,450	112,723	20,155,494	138,404	19,768,148	268,041	34,487,184	28,988	3,696,510	5,045	669,113
Feed to Box	Apr-14	549,195	78,303,940	112,723	20,155,673	138,404	19,768,230	268,041	34,487,230	28,986	3,696,515	1,042	196,292
Cheu Product	Apr-14	147,695	25,383,954	111,903	19,918,999	31,790	4,794,060	2,986	493,438	3	420	1,015	177,038
Residue	Apr-14	269,539	34,860,581	6	1,552	6,194	866,165	239,899	30,929,376	23,440	3,062,249	0	1,238
Cold Box Vent	Apr-14	91,021	13,393,967	64	87,259	82,299	11,887,080	8,644	1,358,670	0	135	14	60,823
Flare/Boot Strap	Apr-14	91,021	3,910,215	64	48,038	82,299	3,142,082	8,644	620,839	0	93,600	14	5,656
Fuel From Cheu	Apr-14	7,673	1,055,581	3	283	209	31,659	6,191	856,950	1,269	166,688	0	0
Shrinkage/Loss	Apr-14	3,802	357,690	0	0	0	0	0	0	3,802	357,690	0	0
Unaccounted*	Apr-14	21,231	2,251,574	735	90,633	15,321	1,809,001	5,162	348,015	(0)	1,085	13	2,841

*Before October 2004, the values are estimated

Storage Operations

Inventory (contained helium)

	Government	Private
Beginning inventory	8,317,543	1,792,132
net acceptances + redeliveries	0	0
	0	(103,821)
In Kind Transfers	(1,001)	1,001
Conservation Crude Sales	0	0
Gain/loss	(2,420)	
Ending Inventory	8,314,123	1,689,312
Total Helium in Reservoir	12,423,855	
Total Helium in Storage	10,003,435	
Helium in native gas	2,420,421	

Crude Helium Pipeline

	Gross	Net Helium	Percent
Beginning inventory	32,379	23,626	72.96%
Measured to Pipeline (Private Plants)	45,984	30,040	65.33%
Measured from Pipeline (Private Plant:	182,925	133,757	73.12%
HEU Production	147,695	111,903	75.77%
Injection	0	0	00.00%
Production	0	0	
Ending Inventory	40,149	29,392	73.21%
Gain/Loss	(2,985)	(2,420)	

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

April - 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	21,165	1,958	41	33	4,616	32,406	60,217	59,293	\$4,050,756	
Total CYTD	8,796	5	4	19	125	18,393	27,343	26,924	\$1,857,722	
Cumulative	1,746,711	108,640	448	271,570	421,558	606,372	3,155,298	3,106,418	\$174,228,056	
In Kind Transfers							Month	FYTD	CYTD	Cumulative
Transferred							1,001	62,455	32,413	3,078,898
Volume outstanding							27,595			

* 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
Helium & Natural Gas Sales

April - 2014

	Award Volume*	Outstanding*	Sales*	Charges Billed (\$)**	
				(billed quarterly)	
Conservation Helium					
<u>Air Liquide Helium America, Inc.</u>					
Month	0	0	0	\$0	
FYTD	10,667	5,333	5,334	\$506,730	
Cumulative	281,217		275,884	\$19,338,180	
<u>Air Products, L.P.</u>					
Month	0	0	0	\$0	
FYTD	129,600	64,800	64,800	\$6,156,000	
Cumulative	7,178,995		7,114,195	\$467,209,039	
<u>Linde Gas North America, LLC</u>					
Month	0	0	0	\$0	
FYTD	93,600	46,800	46,800	\$4,446,000	
Cumulative	5,559,310		5,512,510	\$351,104,088	
<u>Keyes Helium Co., LLC</u>					
Month	0	0	0	\$0	
FYTD	14,400	0	40,440	\$3,555,360	
Cumulative	905,140		905,140	\$58,511,863	
<u>Matheson Tri-Gas, Inc.</u>					
Month	0	0	0	\$0	
FYTD	8,000	0	0	\$0	
Cumulative	18,000		14,000	\$967,500	
<u>Praxair, Inc.</u>					
Month	0	0	0	\$0	
FYTD	122,400	0	122,400	\$11,628,000	
Cumulative	4,493,305		4,493,305	\$307,442,511	
<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	10,667	5,333	5,334	\$506,730	
Cumulative	16,967		11,634	\$1,035,930	
<u>Airgas Merchant Gases</u>					
Month	0	0	0	\$0	
FYTD	10,667	5,333	5,334	\$506,730	
Cumulative	10,667		5,334	\$506,730	
<u>Pioneer Natural Resources USA, Inc</u>					
Month	0	0	0	\$0	
FYTD	0	0	0	\$0	
Cumulative	0		0	\$0	
Month	0	0	0	\$0	
FYTD	0	0	0	\$0	
Cumulative	0		0	\$0	
Total month	0	0	0	\$0	
Total FYTD	400,001	127,599	290,442	\$27,305,550	
Total CYTD	400,001		268,402	\$25,498,190	
Cumulative	18,663,601		18,532,002	\$1,217,150,840	
Conservation Crude Transfers					
		Month	FYTD	CYTD	Cumulative
Transferred		0	613,012	268,402	18,532,002
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 (\$)**
<u>El Paso Natural Gas</u>					
		Provides Measured Firm/Interruptible Transportation Services			(billed monthly)
Month	269,551	---	294,582	1,093	(\$27,997)
FYTD	1,940,291	---	2,128,015	1,097	(\$195,979)
Cumulative	34,247,980	---	37,620,142	1,098	(\$3,770,577)
<u>Minerals Management Service</u>					
Cumulative	---	---	---	---	(\$179,913)
<u>Tenaska</u>					
		Purchaser - Natural Gas			\$/Unit
Month	---	---	270,000	\$4.191667	\$1,131,750
FYTD	---	---	2,069,200	\$4.561352	\$9,438,349
Cumulative	---	---	37,301,096	\$4.883644	\$181,338,735
<u>Sandstone</u>					
		Purchaser - Natural Gas Liquids			
Month	---	79,615	8,555	\$14.058624	\$120,272
FYTD	---	666,533	70,863	\$13.314685	\$943,519
Cumulative	---	10,216,111	1,089,534	\$12.454230	\$13,569,307
	Natural Gas (Mcf)***	NGLs (gal)	Purchased (Dth's)	\$/Per Unit (\$/Dth)	Total (\$)
Total month	269,551	79,615	278,555	\$4.394193	\$1,224,025
Total FYTD	1,940,291	666,533	2,140,063	\$4.759621	\$10,185,888
Total CYTD	1,082,330	351,898	1,162,790	\$5.506632	\$6,403,057
Cumulative	34,247,980	10,216,111	38,390,630	\$4.995597	\$190,957,551

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

**Rounded to nearest dollar

Table 6 - Helium Resources Evaluation

April - 2014

All Volumes in Mcf at 14.7 psia & 70°F

Revenue Collected From Federal Leaseholds	Month*	FYTD*
Fee Sales & Royalties	\$1,241,778	\$8,652,403
Natural Gas Royalties (1)	\$0	\$0
Natural Gas Rentals	\$0	\$0
Other	\$27,422	\$192,294
Revenue Collected from Federal Lease Holds	\$1,244,297	\$8,679,825

*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	0
Total Number of Samples Analyzed For Resources Division	0	22
Total Number of Other Samples Analyzed (2)	17	126

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 - 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	45,984	65.1%	29,932	233,716	133,891	30,936,384	55,473	52,177,859		
Crude Disposed	182,925	73.1%	133,753	1,063,414	559,707	48,736,841	54,472	31,209,372		
Grade-A Rdlvrd	0		0	0	0	1,478,718				
Net/Balance	(136,941)		(103,821)	(829,698)	(425,816)	(19,279,175)	1,001	20,968,487	1,689,312	\$294,696 Storage Fees \$178,494 RMF Fees \$473,190 \$3,182,764
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	8,317,543
Crude Disposed: In Kind Sales transferred for the month	(1,001)
Conservation Crude Sales/Reserve Sell Down transferred (montl	0
Gains and Losses for the month	(2,420)
Net/Balance of Purchased Helium Remaining for Sale	8,314,123

*Includes In Kind and Conservation Crude transfers from Government storage

**Rounded to nearest dollar

Table 8 - Compression & CHEU (Charges & Operations)

April - 2014

Field/CHEU Compressor Operations		Month	FYTD	Cumulative
Spot gas fuel price *	\$ per/MMBTU	\$4.20	\$5.32	\$5.17
Fuel used * (now includes field compression well head)	total MMBTU	10,624	71,593	1,483,547
Field Compression Fuel Cost *	\$dollars	\$0	\$0	\$654,398
CHEU Compression Fuel Cost *	\$dollars	\$22,743	\$156,010	\$3,931,547
CHEU Process Fuel Cost *	\$dollars	\$14,692	\$110,997	\$2,643,137
Rental compressor(s) fuel consumed (well head)	\$dollars	\$7,186	\$59,307	\$185,657
Rental Compressor(s) helium in fuel (Mcf x \$\$)	\$dollars	\$4,465	\$54,715	\$250,505
Rental compressor(s) helium in fuel (Mcf)	Mcf	47	613	3019
#1 Compressor run time *	hours	694	4,905	87,164
#2 Compressor run time *	hours	60	1,560	53,587
#3 Compressor run time *	hours	670	3,429	50,103

* Field/CHEU Compressor Operations based on Apr 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)	(\$426,613)	(\$10,222,907)
Cliffside Refiners, LP, GDA010003 (BLM provided fuel *, labor, supplies, etc.)	\$16,364	\$114,551	\$2,551,374
Net Total - Cliffside Refiners, LP	(\$44,580)	(\$312,062)	(\$7,671,532)

* BLM provided fuel cost is based on Mar 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	797	110.8%	4,973	97.7%	92,260
Producing residue gas	764	106.2%	4,940	97.1%	91,263
Producing helium product	769	106.7%	4,944	97.2%	88,323
Producing natural gas liquids	762	105.8%	4,918	96.7%	86,822

CHEU Charges	Charges Billed (\$)*		
	Month	FYTD	Cumulative
Reservoir Management Fees (RMF)	\$178,494	\$1,425,639	\$26,741,043
Total operating costs	(\$896,423)	(\$6,335,643)	(\$113,353,340)
Labor	\$133,564	\$934,945	\$11,186,268
Compressor fuel cost Mar 14	\$23,784	\$144,551	\$3,953,957
HEU fuel cost Mar 14	\$16,475	\$102,827	\$2,668,972
Electrical power cost Mar 14	\$133,967	\$1,014,505	\$17,028,937
Other	\$86,774	\$625,802	\$11,157,697
Sub Total - Items provided by BLM	\$394,564	\$2,822,630	\$49,205,185
Total - Cliffside Refiners, LP, GDA030001	(\$501,859)	(\$3,513,013)	(\$64,148,154)

***Rounded to nearest dollar**

CHEU Utility Usage	Month	FYTD	Cumulative
Cheu Fuel Gas (Mcf) usage Apr 14	3,034	21,074	464,383
Cheu Pure Water Usage (gallons) Apr 14	1,171	7,797	275,160
Electricity Metered (Kwh) consumed Mar 14	2,754,867	19,700,008	53,254,701