

# Bureau of Land Management

## Amarillo Field Office Helium Operations



### Statistical Report for September - 2009



#### *Distribution:*

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

Issued: November 5, 2009

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

Approved for distribution: *Nelson R. Bullard*

Date: 11/05/2009

Table 1 - Summary of Helium Operations

September - 2009

Helium Enrichment Unit Operations Gas Processed	Month			Gross Cumulative	Net Cumulative
	Gross Volume	Net Helium	Average Percent		
Plant Feed	572,340	131,023	22.89%	44,600,703	11,261,509
Helium Product	166,902	129,097	77.35%	14,134,400	11,094,074
Residue Natural Gas	266,161	0	00.00%	19,581,117	1,287

Natural Gas & Liquids Produced Gas Processed	Month	FYTD
Natural Gas Sales (Mcf***)	264,643	3,424,889
NGL Sales (gallons)	82,368	835,503

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

Bush Dome Reservoir Operations Conservation gases from all sources	Month			Gross Cumulative	Net Cumulative
	Gross Volume	Net Helium	Average Percent		
Total Withdrawn	579,821	140,594	24.25%	179,472,215	31,192,043
Crude Injection	21,547	16,688	77.45%	66,062,447	47,706,968
Crude Production	13,488	10,462	77.57%	1,093,578	805,046

Storage Operations Conservation Helium	Month	FYTD	CYTD	Cumulative
Open Market Sale Volumes (Mcf*)	100,000	863,000	599,000	9,563,600
Conservation Helium in Storage (EOM)	18,128,811			

\* Volumes in Mcf at 14.65 psia & 60°F

In Kind Helium	Month	FYTD	CYTD	Cumulative
Sale Volumes Transferred	0	175,346	129,048	2,381,282
Sale Volumes Outstanding	43,904			

Volumes in Mcf at 14.65 psia & 60°F

Private Company Helium Storage Contracts Contact Activity	Month			Annual
	Gross Volume	Net Helium	Average Percent	Helium FYTD
Crude Acquired	68,952	46,507	67.45%	615,670
Crude Disposed	218,911	162,310	74.14%	2,106,733
Net Balance	(149,959)	(115,803)		(1,491,063)
Balance of Stored Helium End Of Month		659,188		

Volumes in Mcf at 14.65 psia & 60°F

Revenue / Charges

Helium Storage Contracts (Charges Billed (\$))	Month	FYTD
Storage Fees Billed (\$)	\$1,971	\$3,978,562
Reservoir Management Fees Billed (\$)	\$162,429	\$2,015,966

Field Compressor Charges (Charges Billed (\$))	Month	FYTD
Funded by the Refiners (provides for booster compression services)	(\$62,931)	(\$716,279)
Cliffside Refiners, LP, by Agreement #GDA010003 (reimburses BLM for fuel, labor, supplies, etc.)	\$18,545	\$183,646
Net-Total (Funded by the Refiners for compression costs.)	(\$44,386)	(\$532,633)

Enrichment Unit Charges (Charges Billed (\$))	Month	FYTD
Reservoir Management Fees (RMF)	\$162,429	\$2,015,966
Total operating costs	(\$884,581)	(\$10,970,061)
Sub Total - Items provided by BLM	\$409,055	\$5,263,751
Total - Cliffside Refiners, LP, GDA030001	(\$475,526)	(\$5,706,310)

Conservation Helium - Natural Gas - Liquid Sales (Charges Billed (\$))	Month	FYTD
Open Market Sales	\$0	\$57,581,250
In Kind Sales	\$2,733,041	\$10,687,925
Natural Gas & Liquid Sales	\$918,152	\$11,770,958

Helium Resources Evaluation	Month	FYTD
Revenue Collected from Federal Lease Holds	\$4,397	\$7,562,329
Helium Sample Collection Report for month	Submitted - 0	Received - 0
		Analyzed - 18

\*Rounded to nearest dollar

Table 2 - Bush Dome Reservoir Operations

September - 2009

		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
<b>TOTAL</b>		<b>579,821</b>	<b>179,472,215</b>	<b>140,594</b>	<b>31,192,043</b>	<b>145,102</b>	<b>44,068,112</b>	<b>261,177</b>	<b>93,420,874</b>	<b>27,963</b>	<b>9,304,852</b>	<b>4,986</b>	<b>1,486,335</b>
BIVINS A-3	Sep-09	0	10,086,632	0	3,083,333	0	2,553,540	0	3,992,174	0	389,627	0	67,958
BIVINS A-6	Sep-09	13,488	8,162,714	10,462	4,712,668	2,673	2,019,503	260	1,278,114	1	122,834	92	29,595
BIVINS A-13	Sep-09	51,082	4,906,174	25,385	2,998,894	12,756	1,285,764	11,322	542,204	1,250	56,854	369	22,458
BIVINS A-14	Sep-09	51,201	5,419,654	29,554	3,646,860	12,790	1,387,362	7,659	329,410	817	33,500	381	22,521
BIVINS A-4	Sep-09	35,464	10,712,848	10,457	1,861,997	8,688	2,593,969	14,443	5,608,664	1,562	555,154	314	93,064
BUSH A-2	Sep-09	34,103	9,888,581	7,967	1,474,722	8,629	2,405,658	15,556	5,383,700	1,707	537,655	244	86,846
Injection	Sep-09	21,547	66,062,447	16,688	47,706,968	4,306	17,033,280	406	772,291	0	19	146	549,889
inj Bivins A-3	Sep-09	0	(25,652,315)	0	(18,384,452)	0	(6,554,549)	0	(332,777)	0	0	0	(380,537)
inj Bivins A-6	Sep-09	(21,547)	(24,023,025)	(16,688)	(17,374,910)	(4,306)	(6,403,035)	(406)	(134,827)	(0)	(10)	(146)	(110,244)
inj Bivins A-13	Sep-09	0	(6,490,417)	0	(4,706,191)	0	(1,656,853)	0	(122,391)	0	(2)	0	(4,980)
inj Bivins A-14	Sep-09	0	(6,501,333)	0	(4,767,421)	0	(1,602,106)	0	(126,303)	0	(7)	0	(5,497)
inj Bivins A-4	Sep-09	0	(2,527,801)	0	(1,848,815)	0	(601,353)	0	(42,016)	0	0	0	(35,617)
inj Bush A-2	Sep-09	0	(867,658)	0	(625,258)	0	(215,406)	0	(13,980)	0	0	0	(13,015)
Production	Sep-09	13,488	1,093,578	10,462	805,046	2,673	235,546	260	42,611	1	2,908	92	7,467
BIVINS A-1	Sep-09	0	2,686,608	0	48,896	0	636,995	0	1,798,415	0	175,704	0	26,597
BIVINS A-2	Sep-09	11,616	12,265,469	702	1,793,970	2,773	3,019,495	7,275	6,691,447	760	660,732	106	99,825
BIVINS A-5	Sep-09	27,081	13,630,634	7,241	1,528,082	6,886	3,319,334	11,477	7,880,355	1,271	782,657	206	120,206
BIVINS A-7	Sep-09	28,272	9,807,503	9,597	2,137,749	7,364	2,453,359	9,991	4,675,347	1,130	468,608	189	72,441
BIVINS A-9	Sep-09	35,778	8,759,490	739	163,494	9,226	2,134,578	23,088	5,798,527	2,443	581,142	283	81,748
BIVINS A-11	Sep-09	29,116	4,681,244	695	90,711	7,451	1,151,741	18,721	3,081,357	1,983	312,963	265	44,471
BIVINS A-15	Sep-09	30,738	7,570,399	638	389,475	7,274	1,808,057	20,378	4,818,352	2,099	479,321	349	75,195
BIVINS B-1	Sep-09	35,674	5,843,386	1,375	238,079	8,717	1,412,174	22,840	3,755,946	2,385	380,224	357	56,963
BIVINS B-2	Sep-09	36,450	4,554,431	696	85,394	9,329	1,130,527	23,392	2,976,215	2,464	303,773	569	58,521
BUSH A-1	Sep-09	0	5,721,962	0	104,140	0	1,356,677	0	3,830,281	0	374,216	0	56,647
BUSH A-3	Sep-09	29,490	9,577,605	14,779	1,831,357	7,575	2,347,607	6,180	4,832,861	714	480,912	242	84,867
BUSH A-4	Sep-09	22,666	6,859,767	5,290	1,275,856	5,812	1,705,469	10,300	3,477,752	1,126	349,164	138	51,526
BUSH A-5	Sep-09	35,604	13,259,098	12,463	2,805,936	9,087	3,314,148	12,454	6,403,812	1,393	639,610	208	95,592
BUSH A-8	Sep-09	16,032	3,087,496	296	56,492	3,958	740,641	10,456	2,050,098	1,088	204,895	234	35,369
BUSH A-9	Sep-09	4,560	3,649,322	285	94,041	1,176	877,068	2,774	2,406,002	301	239,026	24	33,186
BUSH A-11	Sep-09	21,904	3,440,731	753	99,815	5,257	821,888	14,157	2,253,545	1,467	227,426	270	38,056
BUSH B-1	Sep-09	341	3,136,623	6	58,901	83	743,872	225	2,097,177	24	205,860	3	30,813
FUQUA A-1	Sep-09	0	2,954,071	0	53,853	0	702,791	0	1,975,156	0	193,571	0	28,699
FUQUA A-2	Sep-09	0	132,119	0	2,404	0	31,322	0	88,458	0	8,637	0	1,297
FUQUA A-3	Sep-09	29,160	8,677,759	1,213	555,002	7,597	2,114,594	18,229	5,395,505	1,976	540,785	145	71,874
TT Fuel	Sep-09	348	0	4	0	55	0	252	0	36	0	2	0
field-wide pct's				24.25%	17.38%	25.03%	24.55%	45.04%	52.05%	4.82%	5.18%	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 Sep-09 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 - 08	40.061	11.109
Injection 2003 - 08	(0.790)	(0.614)
Produced to Date 2009	7.034	1.754
Injected to Date 2009	(0.264)	(0.204)
Amount of Raw Gas Available to CHEU	134.522	=====> 21.209 total helium in reservoir
Estimated Bottom Hole Pressure	492.714	est z-factor 0.975

## Table 3 - Gas Volumes & Inventory

September - 2009

### Crude Helium Enrichment Unit Operations

		Gross Withdrawal		Net Helium Withdrawal		Nitrogen		Methane		Ethane plus		Other (CO <sub>2</sub> , Ar, H <sub>2</sub> )	
		Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative
Measured Feed	Sep-09	572,340	44,600,703	131,023	11,261,509	143,844	11,215,660	264,389	19,651,315	28,138	2,095,367	4,946	376,852
Calculated Feed	Sep-09	565,986	44,426,025	130,128	11,274,608	142,375	11,173,320	260,665	19,516,715	27,926	2,085,525	4,892	375,857
Feed to Box	Sep-09	562,262	44,165,252	130,128	11,274,787	142,375	11,173,402	260,665	19,516,761	27,926	2,085,532	1,169	114,770
Cheu Product	Sep-09	166,902	14,134,400	129,097	11,094,074	33,391	2,666,614	3,287	275,468	4	307	1,124	97,937
Residue	Sep-09	266,161	19,581,117	0	1,287	6,502	482,124	236,340	17,355,617	23,320	1,740,861	0	1,228
Cold Box Vent	Sep-09	93,205	7,842,421	117	82,180	85,302	6,783,538	7,767	916,748	1	137	18	59,819
Flare/Boot Strap	Sep-09	3,486	796,972	108	41,464	1,061	318,313	2,094	341,913	222	90,091	1	5,191
Fuel From Cheu	Sep-09	9,471	611,718	0	245	242	17,516	7,719	496,412	1,509	97,545	0	0
Shrinkage/Loss	Sep-09	2,871	151,872	0	0	0	0	0	0	2,871	151,872	0	0
Unaccounted*	Sep-09	20,165	1,081,350	805	53,079	15,876	919,777	3,458	105,852	(0)	1,083	26	1,560

\*Before October 2004, the values are estimated

### Storage Operations

#### Inventory (contained helium)

	Government	Private
Beginning inventory	18,235,468	674,991
net acceptances + redeliveries	0	0
In Kind Transfers	0	0
Open Market Sales	(100,000)	100,000
Gain/loss	(6,657)	
Ending Inventory	18,128,811	659,188
Total Helium in Reservoir	21,209,347	
Total Helium in Storage	18,787,999	
Helium in native gas	2,421,347	

#### Crude Helium Pipeline

	Gross	Net Helium	Percent
Beginning inventory	46,149	34,973	75.78%
Measured to Pipeline (Private Plants)	69,013	46,530	67.42%
Measured from Pipeline (Private Plant:	218,972	162,310	74.12%
HEU Production	166,902	129,097	77.35%
Injection	21,547	16,688	77.45%
Production	13,488	10,462	77.57%
Ending Inventory	47,600	35,407	74.38%
Gain/Loss	(7,434)	(6,657)	

### 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

Table 4 - In Kind Helium Sales

September - 2009

	NASA*	Navy*	Army*	Air Force*	DOE*	Other Fed*	Subtotal*	In Kind+	Charges Billed (\$)**	
<b>In Kind Helium</b>										
<b>AirGas South West, Contract no. INC98-0101</b>									(billed quarterly)	
Month										
FYTD										
<b>AirGas North Central, Contract no. INC98-0102</b>										
Month										
FYTD										
<b>AirGas Intermountain, Contract no. INC98-0103</b>										
Month										
FYTD										
<b>Air Liquide Helium America, Inc., Contract no. INC98-0104</b>										
Month										
FYTD										
<b>Air Products, L.P., Contract no. INC98-0105</b>										
Month										
FYTD										
<b>Linde Gas North America, LLC, Contract no. INC98-0106</b>										
Month										
FYTD										
<b>Corp Brothers, Inc., Contract no. INC98-0107</b>										
Month										
FYTD										
<b>FIBA Technologies, Inc., Contract no. INC98-0108</b>										
Month										
FYTD										
<b>General Air Service &amp; Supply Co., Contract no. INC98-0109</b>										
Month										
FYTD										
<b>Jack B. Kelley Co., Contract no. INC98-0110</b>										
Month										
FYTD										
<b>Portland Welding Supply, Contract no. INC98-0111</b>										
Month										
FYTD										
<b>Praxair, Inc., Contract no. INC98-0112</b>										
Month										
FYTD										
<b>United States Welding, Inc., Contract no. INC98-0113</b>										
Month										
FYTD										
<b>Matheson Tri-Gas, Inc., Contract no. INC98-0114</b>										
Month										
FYTD										
<b>GT &amp; S, Contract no. INC00-0115</b>										
Month										
FYTD										
<b>Total month</b>	28,763	2,059	0	1,323	1,722	10,732	44,599	43,910	\$2,733,041	
<b>Total FYTD</b>	107,490	6,808	3	9,828	16,424	35,117	175,670	172,952	\$10,687,925	
<b>Total CYTD</b>	81,414	5,278	3	5,814	11,697	27,038	131,243	129,212	\$8,041,855	
<b>Cumulative</b>	1,447,836	68,104	225	266,989	323,222	356,936	2,463,312	2,425,111	\$129,587,761	
<b>In Kind Transfers</b>							Month	FYTD	CYTD	Cumulative
Transferred							0	175,346	129,048	2,381,282
Volume outstanding							43,904			

\* Volumes in Mcf at 14.7 psia & 70°F  
 + Volumes in Mcf at 14.65 psia & 60°F

\*\*Rounded to nearest dollar

Table 5 - Open Market/Reserve Sell-down  
Helium & Natural Gas Sales

September - 2009

	Award Volume*	Outstanding*	Sales*	Charges Billed (\$) ** (billed quarterly)	
<b>Conservation Helium</b>					
<b><u>Air Liquide Helium America, Inc.</u></b>					
Month	0	0	0	\$0	
FYTD	0	0	0	\$0	
Cumulative	77,000		77,000	\$4,258,500	
<b><u>Air Products, L.P.</u></b>					
Month	0	0	0	\$0	
FYTD	550,000	0	550,000	\$34,237,500	
Cumulative	3,659,400		3,659,400	\$210,419,250	
<b><u>Linde Gas North America, LLC</u></b>					
Month	0	0	0	\$0	
FYTD	200,000	0	200,000	\$12,450,000	
Cumulative	3,229,000		3,229,000	\$180,702,500	
<b><u>Keyes Helium Co., LLC</u></b>					
Month	0	0	0	\$0	
FYTD	75,000	0	75,000	\$4,668,750	
Cumulative	548,200		548,200	\$31,759,900	
<b><u>Matheson Tri-Gas, Inc.</u></b>					
Month	0	0	0	\$0	
FYTD	0	0	0	\$0	
Cumulative	10,000		10,000	\$587,500	
<b><u>Praxair, Inc.</u></b>					
Month	0	0	0	\$0	
FYTD	100,000	0	100,000	\$6,225,000	
Cumulative	2,140,000		2,140,000	\$123,940,000	
<b><u>Linde Gas, LLC discontinued 10 2008</u></b>					
Month	0	0	0	\$0	
FYTD	0	0	0	\$0	
Cumulative	200,000		200,000	\$11,035,000	
<b>Total month</b>	0	0	0	<b>\$0</b>	
<b>Total FYTD</b>	925,000	0	925,000	<b>\$57,581,250</b>	
<b>Total CYTD</b>	586,000		586,000	<b>\$36,478,500</b>	
<b>Cumulative</b>	9,863,600		9,863,600	<b>\$562,702,650</b>	
<b>Open Market Transfers</b>					
Transferred		Month	FYTD	CYTD	Cumulative
Volume outstanding		100,000	863,000	599,000	9,563,600
		300,000			

\* Volumes in Mcf at 14.65 psia & 60°F

**Natural Gas/Liquid Sales**

	Natural Gas (Mcf)***	NGLs (gal)	Decatherms	\$/unit	Charges Billed (\$) ** (billed monthly)
<b><u>EI Paso Natural Gas</u></b>					
Provides Firm/Interruptible natural gas transportation services					
Month	264,643		290,689	(\$0.0963)	(\$27,997)
FYTD	3,107,255		3,450,935	(\$0.0965)	(\$332,916)
Cumulative	19,085,875		21,011,885	(\$0.1033)	(\$2,170,866)
<b><u>Minerals Management Service</u></b>					
Provides natural gas marketing services under a Cooperative Agreement					
Month					\$0
FYTD				\$0.0000	\$0
Cumulative				(\$0.0078)	(\$149,205)
<b><u>OGE Energy/Tenaska</u></b>					
<Chk Minerals Management Service data>					
Month	264,643	0	295,895	\$2.881427	\$852,600
FYTD	3,424,889	0	3,462,543	\$3.282234	\$11,364,876
Cumulative	19,728,395	0	20,881,314	\$5.881383	\$121,990,103
<b><u>SemCrude</u></b>					
Month	0	82,368	8,841	\$10.581311	\$93,549
FYTD	0	835,503	90,081	\$8.203706	\$738,998
Cumulative	0	4,926,790	525,893	\$11.396003	\$5,993,078
<b>Total month</b>	264,643	82,368	304,736	\$3.012943	<b>\$918,152</b>
<b>Total FYTD</b>	3,424,889	835,503	3,552,624	\$3.313314	<b>\$11,770,958</b>
<b>Total CYTD</b>	2,517,651	590,585	2,582,304	\$3.080138	<b>\$7,953,852</b>
<b>Cumulative</b>	19,728,395	4,926,790	21,407,207	\$5.908478	<b>\$125,663,110</b>

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

\*\*Rounded to nearest dollar

## Table 6 - Helium Resources Evaluation

September - 2009

All Volumes in Mcf at 14.7 psia & 70°F

<b>Revenue Collected From Federal Leaseholds</b>	Month*	FYTD*
Fee Sales & Royalties	\$16,160	\$7,551,357
Natural Gas Royalties (1)	\$253	\$10,187
Natural Gas Rentals	\$0	\$640
Other	\$3,818	\$123,097
Revenue Collected from Federal Lease Holds	\$4,397	\$7,562,329

\*Totals do not sum

<b>Helium Analysis and Evaluation</b>	Month	FYTD
Number of Sample Request Letters Sent	0	75
Number of Samples Received	0	37
Number of Samples Analyzed	0	37
Total Number of Samples Analyzed For Resources Division	0	37
Total Number of Other Samples Analyzed (2)	18	470

### U. S. Helium Production

<i>Domestic</i>	FY Volume	CY Volume
2002 Helium Sold	4,620,900	4,584,904
2003 Helium Sold	4,621,000	4,393,555
2004 Helium Sold	4,675,800	4,692,699
2005 Helium Sold	4,936,900	4,800,782
2006 Helium Sold	4,943,900	4,944,544
2007 Helium Sold	4,941,200	4,965,176
2008 Helium Sold	4,767,400	4,668,286
Estimated Helium Resources as of 12/31/2006(Mcf)		732,000,000

	FY-2008	CY-2008
<b>U.S. Helium Exports</b> (3)	2,396,984	2,520,465

(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

September - 2009

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					
<b>Total All Contracts*</b>											
Crude Acquired	68,952	67.4%	46,507	615,670	408,319	29,032,593	145,447	39,955,737			
Crude Disposed	218,911	74.1%	162,310	2,106,733	1,471,377	38,197,156	45,447	28,653,268			
Grade-A Rdlvrd	0		0	0	0	1,478,718					
Net/Balance	(149,959)		(115,803)	(1,491,063)	(1,063,058)	(10,643,281)	100,000	11,302,469	659,188		
<b>Total Prior Contracts (TERMINATED)</b>											
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			
<b>Linde Gas North America, LLC, Contract no. 1995-3249</b>											
Crude Acquired											
Crude Disposed											
Net/Balance											
<b>Praxair, Inc., Contract no. 1995-3251</b>											
Crude Acquired											
Crude Disposed											
Net/Balance											
<b>Air Products, L.P., Contract no. 1995-3256</b>											
Crude Acquired											
Crude Disposed											
Net/Balance											
<b>ExxonMobil Gas Marketing Co., Contract no. 1995-3280</b>											
Crude Acquired											
Crude Disposed											
Net/Balance											
<b>Pioneer Natural Resources USA, Inc, Contract no. 1995-3286</b>											
Crude Acquired											
Crude Disposed											
Net/Balance											
<b>Keyes Helium Co., LLC, Contract no. 1995-3287</b>											
Crude Acquired											
Crude Disposed											
Net/Balance											
<b>Air Liquide Helium America, Inc., Contract no. 2003-3284</b>											
Crude Acquired											
Crude Disposed											
Net/Balance											
<b>Matheson Tri-Gas, Inc., Contract no. 2007-3288</b>											
Crude Acquired											
Crude Disposed											
Net/Balance											

<b>Government Helium</b>	
Remaining Crude Acquired beginning of the month	18,235,468
Crude Disposed: In Kind Sales transferred for the month	0
Open Market/Reserve Sell Down transferred for the month	(100,000)
Gains and Loses for the month	(6,657)
Net/Balance of Purchased Helium Remaining for Sale	18,128,811

\*Includes In Kind and Open Market transfers from Government storage

\*\*Rounded to nearest dollar

Table 8 - Compression & CHEU (Charges & Operations) September - 2009

Field/CHEU Compressor Operations		Month	FYTD	Cumulative
Spot gas fuel price *	\$ per/MMBTU	\$2.88	\$3.29	\$5.87
Fuel used *	total MMBTU	11,242	124,725	910,700
Field compressor fuel revenue *	\$dollars	\$1,649	\$18,105	\$636,562
HEU compressor fuel credit *	\$dollars	\$20,411	\$248,975	\$2,786,546
HEU fuel credit *	\$dollars	\$10,317	\$143,509	\$1,921,430
#1 Compressor run time *	hours	316	6,666	53,664
#2 Compressor run time *	hours	582	4,537	34,401
#3 Compressor run time *	hours	492	3,420	24,642

\* Field/CHEU Compressor Operations based on Sep 09 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)	(\$62,931)	(\$716,279)	(\$7,017,005)
Cliffside Refiners, LP, GDA010003 (BLM provided fuel *, labor, supplies, etc.)	\$18,545	\$183,646	\$1,748,545
Net Total - Cliffside Refiners, LP	(\$44,386)	(\$532,633)	(\$5,268,460)

\* BLM provided fuel cost is based on Jul 09 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	701	97.4%	8,434	96.3%	53,101
Producing residue gas	681	94.7%	8,177	93.3%	52,666
Producing helium product	677	94.0%	8,163	93.2%	49,795
Producing natural gas liquids	681	94.5%	8,156	93.1%	48,303

CHEU Charges	Charges Billed (\$)*		
	Month	FYTD	Cumulative
Reservoir Management Fees (RMF)	\$162,429	\$2,015,966	\$13,443,426
Total operating costs	(\$884,581)	(\$10,970,061)	(\$67,278,570)
Labor	\$115,406	\$1,384,872	\$5,306,708
Compressor fuel cost Jul 09	\$18,409	\$294,698	\$2,795,392
HEU fuel cost Jul 09	\$10,209	\$158,700	\$1,943,203
Electrical power cost Jul 09	\$128,723	\$1,789,790	\$9,879,325
Other	\$136,308	\$1,635,691	\$7,236,549
Sub Total - Items provided by BLM	\$409,055	\$5,263,751	\$30,370,532
Total - Cliffside Refiners, LP, GDA030001	(\$475,526)	(\$5,706,310)	(\$36,908,038)

\*Rounded to nearest dollar

CHEU Utility Usage	Month	FYTD	Cumulative
Cheu Fuel Gas (Mcf) usage Sep 09	3,129	38,389	290,753
Cheu Pure Water Usage (gallons) Sep 09	497	18,725	218,497
Electricity Metered (Kwh) consumed Jul 09	2,801,254	30,244,643	166,822,784