

Bureau of Land Management

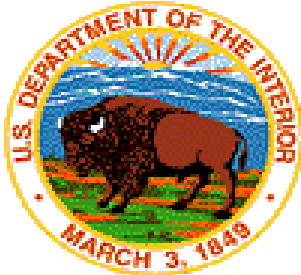
Amarillo Field Office

Helium Operations

Statistical Report

for

February - 2016



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: Joan Grochowina

Issued: September 13, 2016

"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 26, 2016

Table 1 - Summary of Helium Operations

February - 2016

Helium Enrichment Unit Operations

Gas Processed	Month Gross Volume	Month Net Helium	Average Percent	Gross FYTD	Net FYTD
Measured Plant Feed (Mcf*)	354,770	70,041	19.74%	1,340,281	217,564
Helium Product (Mcf*)	90,271	66,796	74.00%	274,946	203,041
Residue Natural Gas (Mcf*)	159,155	84	0.05%	587,747	126

* Volumes in Mcf at 14.65 psia & 60°F

Natural Gas & Liquids Produced

Gas Processed	Month	FYTD
Natural Gas Sales (Mcf***)	162,518	585,734
NGL Sales (gallons)	0	139,864

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

Bush Dome Reservoir Operations

Conservation gases from all sources	Month Gross Volume	Month Net Helium	Average Percent	Gross FYTD	Net FYTD
Total Withdrawn (Mcf*)	370,649	73,254	19.76%	1,427,722	252,484
Crude Injection (Mcf*)	0	0	00.00%	52,854	39,041
Crude Production (Mcf*)	0	0	00.00%	37,008	27,164

* 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	886,000	0	20,952,729
Conservation Crude Sale Volume Transferred (Mcf*)	15,000	0	886,000	0	20,937,729
Conservation Helium in Storage (EOM) (Mcf*)		5,657,449			

* Volumes in Mcf at 14.65 psia & 60°F

In Kind Helium

	Month	FYTD	CYTD	Cumulative
Sale Volumes Transferred (Mcf*)	0	24,765	0	3,288,307
Sale Volumes Outstanding (Mcf*)	33,053			

* Volumes in Mcf at 14.65 psia & 60°F

Private Company Helium Storage Contracts

Contact Activity	Month Gross Volume	Month Net Helium	Average Percent	Annual Helium FYTD
Crude Acquired (Mcf*)	66,922	47,900	71.58%	192,024
Crude Disposed (Mcf*)	146,487	106,484	72.69%	373,804
Net Balance (Mcf*)	(79,565)	(58,584)		(181,780)
Balance of Stored Helium End Of Month (Mcf*)		3,000,962		

* Volumes in Mcf at 14.65 psia & 60°F

Revenue / Charges

Helium Storage Contracts (Charges Billed (\$))	Month	FYTD
Storage Fees Billed (\$)	\$421,260	\$2,027,385
Reservoir Management Fees Billed (\$)	\$254,561	\$1,018,243

Field Compressor Charges (Charges Billed (\$))

	Month	FYTD
Funded by the Refiners (provides for booster compression services)	\$0	(\$217,296)
Cliffside Refiners, LP, by Agreement #GDA010003 (reimburses BLM for fuel, labor, supplies, etc.)	\$0	\$88,817
Net-Total (Funded by the Refiners for compression costs.)	\$0	(\$128,479)

Enrichment Unit Charges (Charges Billed (\$))

	Month	FYTD
Reservoir Management Fees (RMF)	\$254,561	\$1,018,243
Total operating costs	(\$793,524)	(\$4,032,960)
Sub Total - Items provided by BLM	\$294,443	\$1,537,557
Total - Cliffside Refiners, LP, GDA030001	(\$499,081)	(\$2,495,403)

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

	Month	FYTD
Conservation Crude Helium Sales	\$0	\$0
In Kind Sales	\$0	\$2,290,488
Natural Gas & Liquid Sales	\$315,625	\$1,161,256

Helium Resources Evaluation

	Month	FYTD
Revenue Collected from Federal Lease Holds	\$1,633,611	\$7,770,476
Helium Sample Collection Report for month	Submitted - 0	Received - 0
		Analyzed - 5

*Rounded to nearest dollar

Table 2 - Bush Dome Reservoir Operations

February - 2016

		Gross Withdrawal		Net Helium Withdrawal		Nitrogen		Methane	Methane	Ethane plus		Other (CO2, Ar, H2)	
		Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative
TOTAL		370,649	223,066,252	73,254	41,761,781	92,294	54,959,693	182,134	113,053,213	19,527	11,422,862	3,440	1,868,704
BIVINS A-3	Feb-16	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	Feb-16	34,097	11,361,039	21,233	6,759,394	8,263	2,791,720	3,976	1,598,703	389	158,233	236	52,989
BIVINS A-13	Feb-16	26,776	8,400,947	9,427	4,431,693	6,740	2,160,633	9,318	1,584,455	1,089	175,789	203	48,377
BIVINS A-14	Feb-16	32,138	9,439,093	10,120	5,463,035	8,033	2,393,606	12,319	1,378,067	1,380	149,094	286	55,292
BIVINS A-4	Feb-16	30,468	13,362,099	3,412	2,376,373	7,340	3,237,791	17,557	6,932,804	1,836	696,417	323	118,714
BUSH A-2	Feb-16	35,505	13,015,831	3,278	1,938,813	8,914	3,190,785	20,767	7,054,668	2,305	722,635	241	108,930
Injection	Feb-16	0	66,445,928	0	47,998,374	0	17,115,016	0	780,035	0	35	0	552,468
inj Bivins A-3	Feb-16	0	(25,652,315)	0	(18,384,452)	0	(6,554,549)	0	(332,777)	0	0	0	(380,537)
inj Bivins A-6	Feb-16	0	(24,383,879)	0	(17,648,566)	0	(6,480,020)	0	(142,553)	0	(71)	0	(112,670)
inj Bivins A-13	Feb-16	0	(6,490,417)	0	(4,706,191)	0	(1,656,853)	0	(122,391)	0	(2)	0	(4,980)
inj Bivins A-14	Feb-16	0	(6,501,333)	0	(4,767,421)	0	(1,602,106)	0	(126,303)	0	(7)	0	(5,497)
inj Bivins A-4	Feb-16	0	(2,527,801)	0	(1,848,815)	0	(601,353)	0	(42,016)	0	0	0	(35,617)
inj Bush A-2	Feb-16	0	(867,658)	0	(625,258)	0	(215,406)	0	(13,980)	0	0	0	(13,015)
Production	Feb-16	0	1,254,876	0	924,742	0	270,231	0	48,129	0	3,199	0	8,575
BIVINS A-1	Feb-16	0	2,686,608	0	48,896	0	636,995	0	1,798,415	0	175,704	0	26,597
BIVINS A-2	Feb-16	9,554	13,950,445	319	1,878,960	2,228	3,417,324	6,254	7,763,932	657	773,947	95	116,283
BIVINS A-5	Feb-16	15,518	15,960,517	2,917	2,029,599	3,965	3,912,171	7,684	8,977,035	833	903,486	119	138,227
BIVINS A-7	Feb-16	11,713	11,770,312	3,627	2,773,321	3,056	2,963,606	4,456	5,396,973	496	550,420	77	85,993
BIVINS A-9	Feb-16	17,416	10,349,992	388	197,083	4,495	2,545,828	11,201	6,823,106	1,189	689,495	143	94,480
BIVINS A-11	Feb-16	5,235	6,403,495	152	137,865	1,339	1,592,867	3,339	4,182,835	355	429,624	50	60,304
BIVINS A-15	Feb-16	25,140	9,720,781	439	428,877	5,918	2,316,102	16,761	6,249,664	1,718	625,707	304	100,431
BIVINS B-1	Feb-16	24,322	7,932,829	531	297,742	5,963	1,922,059	15,887	5,107,691	1,651	524,026	289	81,311
BIVINS B-2	Feb-16	20,237	6,591,702	386	124,199	5,165	1,651,481	12,965	4,282,907	1,361	440,732	360	92,382
BUSH A-1	Feb-16	0	5,721,962	0	104,140	0	1,356,677	0	3,830,281	0	374,216	0	56,647
BUSH A-3	Feb-16	22,131	12,031,222	7,554	2,833,000	5,635	2,974,447	7,891	5,556,174	868	562,436	184	105,165
BUSH A-4	Feb-16	10,214	8,599,475	953	1,576,018	2,617	2,150,681	5,947	4,365,413	640	445,463	57	61,900
BUSH A-5	Feb-16	29,986	16,481,807	8,133	3,786,549	7,672	4,136,624	12,615	7,664,340	1,389	779,717	177	114,578
BUSH A-8	Feb-16	11,227	4,207,797	210	77,111	2,799	1,018,972	7,281	2,779,227	755	280,013	183	52,474
BUSH A-9	Feb-16	0	3,860,915	0	105,037	0	930,915	0	2,537,187	0	253,463	0	34,312
BUSH A-11	Feb-16	5,852	4,527,245	120	132,257	1,407	1,082,813	3,847	2,959,726	396	300,540	82	51,910
BUSH B-1	Feb-16	3,118	3,316,377	57	62,256	742	786,912	2,069	2,216,219	220	218,540	31	32,449
FUQUA A-1	Feb-16	0	2,954,098	0	53,854	0	702,798	0	1,975,175	0	193,573	0	28,699
FUQUA A-2	Feb-16	0	132,119	0	2,404	0	31,322	0	88,458	0	8,637	0	1,297
FUQUA A-3	Feb-16	0	9,303,909	0	577,005	0	2,277,687	0	5,790,357	0	583,701	0	75,160
TT Fuel	Feb-16	280	0	5	0	67	0	186	0	20	0	3	0
field-wide pcts				19.76%	18.72%	24.90%	24.64%	49.14%	50.68%	5.27%	5.12%	0.93%	0.84%

Latest estimates of reserves and feed to HEU

Based on NITEC's 2003 reserves study from NITEC's interim report

As of EOM Feb-16 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 - 15	90.147	23.308
Injection 2003 - 15	(1.394)	(1.137)
Produced to Date 2016	0.538	0.106
Injected to Date 2016	0.000	0.000
Amount of Raw Gas Available to CHEU	91.273	=====> 10.977 total helium in reservoir
Estimated Bottom Hole Pressure	336.131	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

February - 2016

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	Feb-16	354,770	88,078,675	70,041	21,739,297	88,342	22,091,034	174,397	39,298,442	18,696	4,192,326	3,293	757,577
Calculated Feed	Feb-16	370,369	87,814,405	73,249	21,711,094	92,227	22,019,796	181,949	39,125,362	19,507	4,201,349	3,437	756,805
Feed to Box	Feb-16	367,589	87,268,260	73,249	21,711,272	92,227	22,019,878	181,949	39,125,408	19,507	4,201,352	658	210,350
Cheu Product	Feb-16	90,271	27,363,734	66,796	21,391,680	20,827	5,244,793	2,055	536,561	2	580	591	190,120
Residue	Feb-16	159,155	39,162,879	84	1,909	4,013	967,897	140,683	34,748,802	14,372	3,443,018	3	1,253
Cold Box Vent	Feb-16	58,311	14,846,504	308	88,691	48,387	13,149,305	9,604	1,547,365	0	118	12	61,025
Flare/Boot Strap	Feb-16	58,311	5,362,752	308	49,470	48,387	4,404,307	9,604	809,535	0	93,583	12	5,858
Fuel From Cheu	Feb-16	6,385	1,194,983	3	352	165	35,282	5,150	969,382	1,067	189,966	0	0
Shrinkage/Loss	Feb-16	3,958	427,197	0	0	0	0	0	0	3,958	427,197	0	0
Unaccounted*	Feb-16	49,502	2,780,600	6,058	143,126	18,835	2,098,297	24,457	534,593	107	1,209	45	3,375

*Before October 2004, the values are estimated

Storage Operations

Inventory (contained helium)

	Government	Private
Beginning inventory	5,660,097	3,036,882
net acceptances +	0	0
redeliveries	0	(58,584)
In Kind Transfers	0	0
Conservation Crude Sales	0	0
Gain/loss	(2,648)	
Ending Inventory	5,657,449	2,978,298
Total Helium in Reservoir	10,977,157	
Total Helium in Storage	8,635,747	
Helium in native gas	2,341,410	

Crude Helium Pipeline

	Gross	Net Helium	Percent
Beginning inventory	28,961	20,615	71.18%
Measured to Pipeline (Private Plants)	66,922	47,966	71.67%
Measured from Pipeline (Private Plant)	146,487	106,484	72.69%
HEU Production	90,271	66,796	74.00%
Injection	0	0	00.00%
Production	0	0	
Ending Inventory	36,023	26,245	72.86%
Gain/Loss	(3,644)	(2,648)	

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

February - 2016

	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	12,072	0	0	0	0	18,539	30,610	30,138	\$2,290,488		
Total CYTD	0	0	0	0	0	0	0	0	\$0		
Cumulative	1,827,158	108,674	450	271,584	421,753	743,914	3,373,533	3,321,285	\$189,928,472		
In Kind Transfers								Month	FYTD	CYTD	Cumulative
Transferred								0	24,765	0	3,288,307
Volume outstanding								33,053			

* 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

February - 2016

Helium & Natural Gas Sales

	Award Volume*	Outstanding*	Sales*	Charges Billed (\$)**	
Conservation Helium					
(billed quarterly)					
<u>Air Liquide Helium America, Inc.</u>					
Month	0	0	0	\$0	
FYTD	20,000	0	50,000	\$5,230,000	
Cumulative	335,217		335,217	\$25,454,815	
<u>Air Products, L.P.</u>					
Month	0	0	0	\$0	
FYTD	193,875	0	318,875	\$33,038,000	
Cumulative	8,029,436		8,029,436	\$565,835,027	
<u>Linde Gas North America, LLC</u>					
Month	0	0	0	\$0	
FYTD	140,021	0	140,021	\$14,562,184	
Cumulative	6,030,653		6,030,653	\$404,691,853	
<u>Keyes Helium Co., LLC</u>					
Month	0	0	0	\$0	
FYTD	21,000	0	21,000	\$2,184,000	
Cumulative	977,113		977,113	\$66,015,798	
<u>Matheson Tri-Gas, Inc.</u>					
Month	0	0	0	\$0	
FYTD	68,000	0	68,000	\$7,072,000	
Cumulative	107,000		107,000	\$10,569,500	
<u>Praxair, Inc.</u>					
Month	0	0	0	\$0	
FYTD	183,104	0	273,104	\$28,407,816	
Cumulative	5,219,676		5,219,676	\$384,489,780	
<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	0	0	0	\$0	
Cumulative	22,967		22,967	\$2,112,565	
<u>Airgas Merchant Gases</u>					
Month	0	0	0	\$0	
FYTD	0	0	0	\$0	
Cumulative	15,667		15,667	\$1,488,365	
<u>IACX Energy</u>					
Month	0	0	0	\$0	
FYTD	0	0	15,000	\$1,575,000	
Cumulative	15,000		15,000	\$1,575,000	
Total month	0	0	0		0
Total FYTD	626,000	0	886,000		\$0
Total CYTD	0		0		\$0
Cumulative	20,952,729		20,952,729		\$1,473,267,703
Conservation Crude Transfers					
		Month	FYTD	CYTD	Cumulative
Transferred		0	886,000	0	20,937,729
Volume outstanding		15,000			

* Volumes in Mcf at 14.65 psia & 60°F

Natural Gas/Liquid Sales

	Natural Gas (Mcf)***	NGLs (gal)	Decatherms	Avg Btu Value	Charges Billed (\$)**	
<u>El Paso Natural Gas</u>						
		Provides Measured Firm/Interruptible Transportation Services			(billed monthly)	
Month	162,518	---	179,491	1,104	(\$27,997)	
FYTD	585,734	---	646,015	1,103	(\$139,985)	
Cumulative	38,543,718	---	42,288,874	1,097	(\$4,388,400)	
<u>Minerals Management Service</u>						
		No Longer Provides Natural Gas Marketing Services				
Cumulative	---	---	---	---	(\$179,913)	
<u>Tenaska</u>						
		Purchaser - Natural Gas			\$/Unit	
Month	---	---	190,299	\$1.805695	\$343,622	
FYTD	---	---	658,691	\$1.884746	\$1,241,465	
Cumulative	---	---	41,975,904	\$4.670958	\$195,241,120	
<u>Sandstone</u>						
	<Chk Sandstone data>	Purchaser - Natural Gas Liquids				
Month	---	0	0	\$0.000000	\$0	
FYTD	---	139,864	14,932	\$4.003178	\$59,775	
Cumulative	---	11,604,163	1,234,607	\$11.912266	\$14,706,968	
	Natural Gas (Mcf)***	NGLs (gal)	Purchased (Dth's)	\$\$ Per Unit (\$\$/Dth)	Total (\$\$)	
Total month	162,518	0	190,299	\$1.658574	\$315,625	
Total FYTD	585,734	139,864	673,623	\$1.723895	\$1,161,256	
Total CYTD	202,306	7,118	214,056	\$1.560502	\$334,035	
Cumulative	38,543,718	11,604,163	43,210,511	\$4.772133	\$205,379,774	

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

**Rounded to nearest dollar

Table 6 - Helium Resources Evaluation

February - 2016

All Volumes in Mcf at 14.7 psia & 70°F

Revenue Collected From Federal Leaseholds	Month*	FYTD*
Fee Sales & Royalties	\$1,657,710	\$7,737,314
Natural Gas Royalties (1)	\$0	\$0
Natural Gas Rentals	\$0	\$0
Other	\$32,662	\$203,718
Revenue Collected from Federal Lease Holds	\$1,633,611	\$7,770,476

*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	1
Total Number of Other Samples Analyzed (2)	5	31

U. S. Helium Production

<i>Domestic</i>	FY Volume	CY Volume
2011 Helium Sold	4,531,140	4,645,930
2012 Helium Sold	4,725,187	4,623,130
2013 Helium Sold	4,279,765	4,166,708
2014 Helium Sold	3,815,746	3,466,014
2015 Helium Sold	4,559,100	4,644,278
Estimated Helium Resources as of 12/31/2006 (Mcf)		732,000,000

	FY-2015	CY-2015
U.S. Helium Exports (3)	2,423,915	2,334,648

(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

February - 2016

All Volumes in Mcf at 14.65 psia & 60°F

	Metered Gas					Transferred Gas Helium		Stored Helium EOM	Charges Month	Billed (\$)** FYTD
	Gross Gas Month	Helium %	Helium	FYTD	Helium CYTD	Cumulative	Month			
Total All Contracts*										
Crude Acquired	66,922	71.6%	47,900	192,024	92,041	30,557,981	36,074	54,697,981		
Crude Disposed	146,487	72.7%	106,484	373,804	183,982	50,762,859	36,074	30,004,333	\$421,260	Storage Fees
Grade-A Rdlvrd	0		0	0	0	1,478,718			\$254,561	RMF Fees
Net/Balance	(79,565)		(58,584)	(181,780)	(91,941)	(21,683,596)	0	24,693,648	\$675,821	\$3,045,628
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. 3249										
Crude Acquired										
Crude Disposed										
Net/Balance										
Praxair, Inc., Contract no. 3251										
Crude Acquired										
Crude Disposed										
Net/Balance										
Air Products, L.P., Contract no. 3256										
Crude Acquired										
Crude Disposed										
Net/Balance										
IACX Energy, Contract no. 3297										
Crude Acquired										
Crude Disposed										
Net/Balance										
Pioneer Natural Resources USA, Inc, Contract no. 3286										
Crude Acquired										
Crude Disposed										
Net/Balance										
Keyes Helium Co., LLC, Contract no. 3287										
Crude Acquired										
Crude Disposed										
Net/Balance										
Air Liquide Helium America, Inc., Contract no. 3284										
Crude Acquired										
Crude Disposed										
Net/Balance										
Matheson Tri-Gas, Inc., Contract no. 3288										
Crude Acquired										
Crude Disposed										
Net/Balance										
Airgas Merchant Gases, Contract no. 3290										
Crude Acquired										
Crude Disposed										
Net/Balance										
Global Gases America, Contract no. 3293										
Crude Acquired										
Crude Disposed										
Net/Balance										
Linn Operating, Inc., Contract no. 3296										
Crude Acquired										
Crude Disposed										
Net/Balance										

There was an error on transfers between companies. This error is corrected in a later month.

Government Helium	
Remaining Crude Acquired beginning of the month	5,660,097
Crude Disposed: In Kind Sales transferred for the month	0
Conservation Crude Sales/Reserve Sell Down transferred (month)	0
Gains and Losses for the month	(2,648)
Net/Balance of Purchased Helium Remaining for Sale	5,657,449

*Includes In Kind and Conservation Crude transfers from Government storage

**Rounded to nearest dollar

Table 8 - Compression & CHEU (Charges & Operations) February - 2016

Field/CHEU Compressor Operations		Month	FYTD	Cumulative
Spot gas fuel price *	\$ per/MMBTU	\$1.81	\$1.88	\$4.97
Fuel used * (now includes field compression well head)	total MMBTU	7,652	27,604	1,656,893
Field Compression Fuel Cost *	\$dollars	\$0	\$4,049	\$658,447
CHEU Compression Fuel Cost *	\$dollars	\$9,065	\$27,319	\$4,231,478
CHEU Process Fuel Cost *	\$dollars	\$4,786	\$20,636	\$2,828,061
Rental compressor(s) fuel consumed (well head)	\$dollars	\$0	\$0	\$207,234
Rental Compressor(s) helium in fuel (Mcf x \$\$)	\$dollars	\$0	\$0	\$315,893
Rental compressor(s) helium in fuel (Mcf)	Mcf	0	0	3645
#1 Compressor run time *	hours	638	2,639	97,958
#2 Compressor run time *	hours	586	1,593	61,357
#3 Compressor run time *	hours	38	1,033	59,013

* Field/CHEU Compressor Operations based on Feb 16 activity

Field Compressor Charges	Charges Billed (\$)*		
Linde Gas North America, LLC, Contract no. 3249			
Praxair, Inc., Contract no. 3251			
Air Products, L.P., Contract no. 3256			
Keyes Helium Co., LLC, Contract no. 3287			
SubTotal - Cliffside Refiners, LP (provides booster compression services)	\$0	(\$217,296)	(\$11,422,651)
Cliffside Refiners, LP, GDA010003 (BLM provided fuel *, labor, supplies, etc.)	\$0	\$88,817	\$2,880,795
Net Total - Cliffside Refiners, LP	\$0	(\$128,479)	(\$8,541,856)

* BLM provided fuel cost is based on Jan 16 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	694	99.7%	3,168	86.8%	107,532
Producing residue gas	674	96.8%	2,336	64.0%	105,054
Producing helium product	636	91.4%	2,186	59.9%	101,751
Producing natural gas liquids	648	93.1%	2,258	61.9%	100,616

CHEU Charges	Charges Billed (\$)*		
	Month	FYTD	Cumulative
Reservoir Management Fees (RMF)	\$254,561	\$1,018,243	\$30,523,445
Total operating costs	(\$793,524)	(\$4,032,960)	(\$131,257,466)
Labor	\$130,284	\$651,422	\$13,426,625
Compressor fuel cost Jan 16	\$3,661	\$33,724	\$4,268,908
HEU fuel cost Jan 16	\$4,541	\$20,995	\$2,861,082
Electrical power cost Jan 16	\$84,623	\$474,748	\$19,825,853
Other	\$71,333	\$356,667	\$12,573,923
Sub Total - Items provided by BLM	\$294,443	\$1,537,557	\$56,165,745
Total - Cliffside Refiners, LP, GDA030001	(\$499,081)	(\$2,495,403)	(\$75,091,721)

***Rounded to nearest dollar**

CHEU Utility Usage	Month	FYTD	Cumulative
Cheu Fuel Gas (Mcf) usage Feb 16	2,323	10,410	521,144
Cheu Pure Water Usage (gallons) Feb 16	790	3,733	288,656
Electricity Metered (Kwh) consumed Jan 16	1,433,799	10,247,478	106,945,349