

Bureau of Land Management

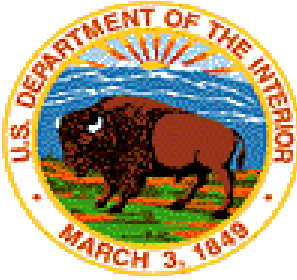
Amarillo Field Office

Helium Operations

Statistical Report

for

March - 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

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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

March - 2016

Helium Enrichment Unit Operations

Gas Processed	Month Gross Volume	Month Net Helium	Average Percent	Gross FYTD	Net FYTD
Measured Plant Feed (Mcf*)	358,807	70,468	19.64%	1,699,088	288,032
Helium Product (Mcf*)	91,643	68,698	74.96%	366,589	271,739
Residue Natural Gas (Mcf*)	165,817	1	0.00%	753,564	128

* Volumes in Mcf at 14.65 psia & 60°F

Natural Gas & Liquids Produced

Gas Processed	Month	FYTD
Natural Gas Sales (Mcf***)	164,170	749,904
NGL Sales (gallons)	51,442	191,306

*** 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Total Withdrawn (Mcf*)	357,805	61,892	17.30%	1,785,526	314,376
Crude Injection (Mcf*)	13,209	9,850	74.57%	66,063	48,890
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*)		5,613,245			

* Volumes in Mcf at 14.65 psia & 60°F

In Kind Helium

	Month	FYTD	CYTD	Cumulative
Sale Volumes Transferred (Mcf*)	30,785	55,550	30,785	3,319,092
Sale Volumes Outstanding (Mcf*)	30,407			

* 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*)	71,347	50,758	71.14%	242,782
Crude Disposed (Mcf*)	124,062	91,161	73.48%	464,965
Net Balance (Mcf*)	(52,715)	(40,403)		(222,183)
Balance of Stored Helium End Of Month (Mcf*)		2,966,410		

* Volumes in Mcf at 14.65 psia & 60°F

Revenue / Charges

Helium Storage Contracts (Charges Billed (\$))	Month	FYTD
Storage Fees Billed (\$)	\$411,617	\$2,439,003
Reservoir Management Fees Billed (\$)	\$254,561	\$1,272,803

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	\$1,272,803
Total operating costs	(\$824,094)	(\$4,857,054)
Sub Total - Items provided by BLM	\$325,014	\$1,862,570
Total - Cliffside Refiners, LP, GDA030001	(\$499,081)	(\$2,994,484)

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

	Month	FYTD
Conservation Crude Helium Sales	\$0	\$0
In Kind Sales	\$2,374,932	\$4,665,420
Natural Gas & Liquid Sales	\$257,760	\$1,419,016

Helium Resources Evaluation

	Month	FYTD
Revenue Collected from Federal Lease Holds	\$1,485,441	\$9,255,917
Helium Sample Collection Report for month	Submitted - 0	Received - 0
		Analyzed - 16

*Rounded to nearest dollar

Table 2 - Bush Dome Reservoir Operations

March - 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		357,805	223,424,057	61,892	41,823,672	89,228	55,048,920	183,449	113,236,662	19,857	11,442,719	3,379	1,872,084
BIVINS A-3	Mar-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	Mar-16	13,768	11,374,807	7,545	6,766,938	3,412	2,795,132	2,454	1,601,158	258	158,491	99	53,089
BIVINS A-13	Mar-16	28,702	8,429,649	9,832	4,441,525	7,232	2,167,865	10,228	1,594,682	1,193	176,982	218	48,595
BIVINS A-14	Mar-16	35,959	9,475,053	11,302	5,474,337	8,990	2,402,596	13,800	1,391,867	1,547	150,640	320	55,612
BIVINS A-4	Mar-16	31,267	13,393,366	3,542	2,379,915	7,536	3,245,327	17,974	6,950,778	1,885	698,302	330	119,044
BUSH A-2	Mar-16	36,793	13,052,624	3,437	1,942,250	9,234	3,200,019	21,484	7,076,152	2,389	725,023	250	109,180
Injection	Mar-16	13,209	66,459,137	9,850	48,008,224	2,975	17,117,991	298	780,333	0	36	86	552,554
inj Bivins A-3	Mar-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	Mar-16	(13,209)	(24,397,088)	(9,849)	(17,658,415)	(2,977)	(6,482,997)	(297)	(142,850)	(0)	(71)	(86)	(112,756)
inj Bivins A-13	Mar-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	Mar-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	Mar-16	0	(2,527,801)	0	(1,848,815)	0	(601,353)	0	(42,016)	0	0	0	(35,617)
inj Bush A-2	Mar-16	0	(867,658)	0	(625,258)	0	(215,406)	0	(13,980)	0	0	0	(13,015)
Production	Mar-16	0	1,254,876	0	924,742	0	270,231	0	48,129	0	3,199	0	8,575
BIVINS A-1	Mar-16	0	2,686,608	0	48,896	0	636,995	0	1,798,415	0	175,704	0	26,597
BIVINS A-2	Mar-16	9,521	13,959,966	319	1,879,279	2,217	3,419,540	6,234	7,770,166	656	774,603	95	116,378
BIVINS A-5	Mar-16	18,232	15,978,749	3,437	2,033,036	4,656	3,916,827	9,018	8,986,053	980	904,466	140	138,367
BIVINS A-7	Mar-16	9,260	11,779,572	2,942	2,776,263	2,417	2,966,023	3,456	5,400,428	385	550,805	61	86,053
BIVINS A-9	Mar-16	13,218	10,363,209	295	197,378	3,417	2,549,245	8,509	6,831,615	889	690,384	108	94,588
BIVINS A-11	Mar-16	3,027	6,406,522	88	137,954	775	1,593,642	1,935	4,184,769	200	429,825	29	60,332
BIVINS A-15	Mar-16	26,370	9,747,151	461	429,338	6,221	2,322,322	17,597	6,267,261	1,773	627,480	319	100,750
BIVINS B-1	Mar-16	25,901	7,958,730	575	298,317	6,351	1,928,410	16,906	5,124,598	1,759	525,785	309	81,620
BIVINS B-2	Mar-16	20,533	6,612,235	391	124,590	5,239	1,656,720	13,147	4,296,054	1,392	442,124	365	92,747
BUSH A-1	Mar-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	Mar-16	23,089	12,054,311	7,894	2,840,894	5,878	2,980,325	8,220	5,564,394	907	563,343	191	105,356
BUSH A-4	Mar-16	10,226	8,609,701	946	1,576,964	2,621	2,153,302	5,962	4,371,375	640	446,103	57	61,957
BUSH A-5	Mar-16	31,526	16,513,332	8,495	3,795,043	8,068	4,144,691	13,311	7,677,651	1,466	781,183	186	114,764
BUSH A-8	Mar-16	11,205	4,219,003	205	77,316	2,755	1,021,727	7,157	2,786,384	912	280,925	177	52,651
BUSH A-9	Mar-16	0	3,860,915	0	105,037	0	930,915	0	2,537,187	0	253,463	0	34,312
BUSH A-11	Mar-16	6,065	4,533,310	125	132,382	1,458	1,084,271	3,986	2,963,712	411	300,951	85	51,994
BUSH B-1	Mar-16	3,140	3,319,517	62	62,318	752	787,664	2,070	2,218,289	216	218,756	40	32,489
FUQUA A-1	Mar-16	0	2,954,098	0	53,854	0	702,798	0	1,975,175	0	193,573	0	28,699
FUQUA A-2	Mar-16	0	132,119	0	2,404	0	31,322	0	88,458	0	8,637	0	1,297
FUQUA A-3	Mar-16	0	9,303,909	0	577,005	0	2,277,687	0	5,790,357	0	583,701	0	75,160
TT Fuel	Mar-16	34	0	1	0	8	0	23	0	2	0	0	0
field-wide pct's				17.30%	18.72%	24.94%	24.64%	51.27%	50.68%	5.55%	5.12%	0.94%	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 Mar-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	0.896	0.168
Injected to Date 2016	(0.013)	(0.010)
Amount of Raw Gas Available to CHEU	90.928	=====> 10.925 total helium in reservoir
Estimated Bottom Hole Pressure	334.863	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

March - 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	Mar-16	358,807	88,437,482	70,468	21,809,765	88,848	22,179,881	177,279	39,475,721	18,902	4,211,228	3,310	760,887
Calculated Feed	Mar-16	374,624	88,189,029	74,429	21,785,522	93,029	22,112,825	183,827	39,309,189	19,857	4,221,206	3,483	760,288
Feed to Box	Mar-16	371,811	87,640,070	74,429	21,785,701	93,029	22,112,907	183,827	39,309,235	19,857	4,221,209	669	211,019
Cheu Product	Mar-16	91,643	27,455,376	68,698	21,460,378	20,341	5,265,134	2,002	538,563	0	580	602	190,722
Residue	Mar-16	165,817	39,328,695	1	1,910	3,947	971,844	146,893	34,895,694	14,975	3,457,994	0	1,253
Cold Box Vent	Mar-16	60,669	14,907,172	92	88,783	50,534	13,199,839	10,027	1,557,392	0	118	15	61,040
Flare/Boot Strap	Mar-16	60,669	5,423,421	92	49,562	50,534	4,454,841	10,027	819,562	0	93,583	15	5,874
Fuel From Cheu	Mar-16	8,235	1,203,218	4	356	213	35,495	6,641	976,024	1,376	191,342	0	0
Shrinkage/Loss	Mar-16	3,505	430,702	0	0	0	0	0	0	3,505	430,702	0	0
Unaccounted*	Mar-16	41,942	2,822,543	5,634	148,760	17,993	2,116,290	18,263	552,856	(0)	1,209	52	3,427

*Before October 2004, the values are estimated

Storage Operations

Inventory (contained helium)

	Government	Private
Beginning inventory	5,657,449	2,978,298
net acceptances +	0	0
redeliveries	0	(40,403)
In Kind Transfers	(30,785)	30,785
Conservation Crude Sales	0	0
Gain/loss	(13,419)	
Ending Inventory	5,613,245	2,968,680
Total Helium in Reservoir	10,925,116	
Total Helium in Storage	8,581,925	
Helium in native gas	2,343,191	

Crude Helium Pipeline

	Gross	Net Helium	Percent
Beginning inventory	36,023	26,245	72.86%
Measured to Pipeline (Private Plants)	71,347	50,817	71.23%
Measured from Pipeline (Private Plant)	124,062	91,161	73.48%
HEU Production	91,643	68,698	74.96%
Injection	13,209	9,850	74.57%
Production	0	0	
Ending Inventory	42,687	31,329	73.39%
Gain/Loss	(19,054)	(13,419)	

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

March - 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	13,461	0	0	0	0	15,118	28,579	28,139	\$2,374,932	
Total FYTD	25,533	0	0	0	0	33,656	59,189	58,277	\$4,665,420	
Total CYTD	13,461	0	0	0	0	15,118	28,579	28,139	\$2,374,932	
Cumulative	1,840,619	108,674	450	271,584	421,753	759,032	3,402,112	3,349,424	\$192,303,403	
In Kind Transfers							Month	FYTD	CYTD	Cumulative
Transferred							30,785	55,550	30,785	3,319,092
Volume outstanding							30,407			

* 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

March - 2016

Helium & Natural Gas Sales

	Award Volume*	Outstanding*	Sales*	Charges Billed (\$)*** (billed quarterly)	
Conservation Helium					
Air Liquide Helium America, Inc.					
Month	0	0	0	\$0	
FYTD	20,000	0	50,000	\$5,230,000	
Cumulative	335,217		335,217	\$25,454,815	
Air Products, L.P.					
Month	0	0	0	\$0	
FYTD	193,875	0	318,875	\$33,038,000	
Cumulative	8,029,436		8,029,436	\$565,835,027	
Linde Gas North America, LLC					
Month	0	0	0	\$0	
FYTD	140,021	0	140,021	\$14,562,184	
Cumulative	6,030,653		6,030,653	\$404,691,853	
Keyes Helium Co., LLC					
Month	0	0	0	\$0	
FYTD	21,000	0	21,000	\$2,184,000	
Cumulative	977,113		977,113	\$66,015,798	
Matheson Tri-Gas, Inc.					
Month	0	0	0	\$0	
FYTD	68,000	0	68,000	\$7,072,000	
Cumulative	107,000		107,000	\$10,569,500	
Praxair, Inc.					
Month	0	0	0	\$0	
FYTD	183,104	0	273,104	\$28,407,816	
Cumulative	5,219,676		5,219,676	\$384,489,780	
Linde Gas, LLC discontinued 10 2008					
Month	0	0	0	\$0	
FYTD	0	0	0	\$0	
Cumulative	200,000		200,000	\$11,035,000	
Global Gases America					
Month	0	0	0	\$0	
FYTD	0	0	0	\$0	
Cumulative	22,967		22,967	\$2,112,565	
Airgas Merchant Gases					
Month	0	0	0	\$0	
FYTD	0	0	0	\$0	
Cumulative	15,667		15,667	\$1,488,365	
IACX Energy					
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 (\$)*** (billed monthly)	
El Paso Natural Gas						
		Provides Measured Firm/Interruptible Transportation Services				
Month	164,170	---	181,137	1,103	(\$27,997)	
FYTD	749,904	---	827,152	1,103	(\$167,982)	
Cumulative	38,707,888	---	42,470,011	1,097	(\$4,416,397)	
Minerals Management Service						
		No Longer Provides Natural Gas Marketing Services				
Cumulative	---	---	---	---	(\$179,913)	
Tenaska						
		Purchaser - Natural Gas			\$/Unit	
Month	---	---	176,500	\$1.506768	\$265,945	
FYTD	---	---	835,191	\$1.804868	\$1,507,410	
Cumulative	---	---	42,152,404	\$4.657709	\$195,507,065	
Sandstone						
		Purchaser - Natural Gas Liquids				
Month	---	51,442	5,526	\$3.585351	\$19,813	
FYTD	---	191,306	20,458	\$3.890317	\$79,588	
Cumulative	---	11,655,605	1,240,133	\$11.875162	\$14,726,780	
	Natural Gas (Mcf)***	NGLs (gal)	Purchased (Dth's)	\$\$ Per Unit (\$\$/Dth)	Total (\$\$)	
Total month	164,170	51,442	182,026	\$1.416062	\$257,760	
Total FYTD	749,904	191,306	855,649	\$1.658409	\$1,419,016	
Total CYTD	366,476	58,560	396,082	\$1.494122	\$591,795	
Cumulative	38,707,888	11,655,605	43,392,537	\$4.758055	\$205,637,534	

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

**Rounded to nearest dollar

Table 6 - Helium Resources Evaluation

March - 2016

All Volumes in Mcf at 14.7 psia & 70°F

Revenue Collected From Federal Leaseholds	Month*	FYTD*
Fee Sales & Royalties	\$1,475,330	\$9,212,644
Natural Gas Royalties (1)	\$0	\$0
Natural Gas Rentals	\$0	\$0
Other	\$42,773	\$246,491
Revenue Collected from Federal Lease Holds	\$1,485,441	\$9,255,917

*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)	16	47

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

March - 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	71,347	71.1%	50,758	242,782	142,799	30,608,739	53,894	54,751,875		
Crude Disposed	124,062	73.5%	91,161	464,965	275,143	50,854,020	23,109	30,027,442	\$411,617	Storage Fees
Grade-A Rdlvrd	0		0	0	0	1,478,718			\$254,561	RMF Fees
Net/Balance	(52,715)		(40,403)	(222,183)	(132,344)	(21,723,999)	30,785	24,724,433	\$666,178	\$3,711,806
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										

Government Helium	
Remaining Crude Acquired beginning of the month	5,657,449
Crude Disposed: In Kind Sales transferred for the month	(30,785)
Conservation Crude Sales/Reserve Sell Down transferred (month)	0
Gains and Losses for the month	(13,419)
Net/Balance of Purchased Helium Remaining for Sale	5,613,245

*Includes In Kind and Conservation Crude transfers from Government storage

**Rounded to nearest dollar

Table 8 - Compression & CHEU (Charges & Operations)

March - 2016

Field/CHEU Compressor Operations		Month	FYTD	Cumulative
Spot gas fuel price *	\$ per/MMBTU	\$1.51	\$1.79	\$4.95
Fuel used * (now includes field compression well head)	total MMBTU	9,548	37,152	1,666,441
Field Compression Fuel Cost *	\$dollars	\$0	\$4,049	\$658,447
CHEU Compression Fuel Cost *	\$dollars	\$10,270	\$37,589	\$4,241,748
CHEU Process Fuel Cost *	\$dollars	\$4,148	\$24,784	\$2,832,209
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	723	3,362	98,681
#2 Compressor run time *	hours	715	2,308	62,072
#3 Compressor run time *	hours	0	1,033	59,013

* Field/CHEU Compressor Operations based on Mar 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 Feb 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	743	99.9%	3,911	89.0%	108,275
Producing residue gas	730	98.1%	3,066	69.8%	105,784
Producing helium product	723	97.2%	2,909	66.2%	102,474
Producing natural gas liquids	728	97.8%	2,986	68.0%	101,344

CHEU Charges	Charges Billed (\$)*		
	Month	FYTD	Cumulative
Reservoir Management Fees (RMF)	\$254,561	\$1,272,803	\$30,778,005
Total operating costs	(\$824,094)	(\$4,857,054)	(\$132,081,560)
Labor	\$130,284	\$781,707	\$13,556,909
Compressor fuel cost Feb 16	\$9,064	\$42,788	\$4,277,972
HEU fuel cost Feb 16	\$4,786	\$25,781	\$2,865,868
Electrical power cost Feb 16	\$109,546	\$584,294	\$19,935,398
Other	\$71,333	\$428,001	\$12,645,256
Sub Total - Items provided by BLM	\$325,014	\$1,862,570	\$56,490,759
Total - Cliffside Refiners, LP, GDA030001	(\$499,081)	(\$2,994,484)	(\$75,590,802)

***Rounded to nearest dollar**

CHEU Utility Usage	Month	FYTD	Cumulative
Cheu Fuel Gas (Mcf) usage Mar 16	2,381	12,791	523,525
Cheu Pure Water Usage (gallons) Mar 16	790	4,523	289,446
Electricity Metered (Kwh) consumed Feb 16	2,576,473	12,823,951	109,521,822