Bureau of Land Management



Amarillo Field Office Helium Operations Statistical Report for



June - 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

Helium Enrichment Unit Operations	Month	Month			
Gas Processed	Gross Volume	Net Helium	Average Percent	Gross FYTD	Net FYTD
Measured Plant Feed (<i>Mcf*</i>)	453,404	78,711	17.36%	2,909,057	514,944
Helium Product (<i>Mcf*</i>)	98,957	74,410	75.19%	651,731	485,273
Residue Natural Gas <i>(Mcf*)</i> ' Volumes in Mcf at 14.65 psia & 60°F	208,676	69	0.03%	1,313,064	201
·					
Natural Gas & Liquids Produced Gas Processed				Month	FYT
Natural Gas Sales (<i>Mcf***</i>)					1,302,98
NGL Sales (gallons)				206,278	
*** Volumes in Mcf at 14.73 psia & 60°F				81,236	382,41
Duck Dama Dagamusin Organitisma					
Bush Dome Reservoir Operations Conservation gases from all sources	Month Gross Volume	Month Net Helium	Average Percent	Gross FYTD	Net FYTE
Total Withdrawn <i>(Mcf*)</i>	447,092	77,666	17.37%	2,971,353	529,139
Crude Injection (Mcf*)	0	0	00.00%	71,898	53,251
Crude Production (Mcf*)	0	0	00.00%	37,008	27,164
Volumes in Mcf at 14.65 psia & 60°F	0	0	00.00%	37,008	27,102
Storage Operations					
Conservation Helium	Volume Outstanding	Month	FYTD	CYTD	Cumulativ
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*)	10,000	5,571,832	000,000	U	20,001,120
* Volumes in Mcf at 14.65 psia & 60°F	I	2,011,002	l		
In Kind Helium	Г	Month	FYTD	CYTD	Cumulativ
		0			
Sale Volumes Transferred (Mcf*)			83,690	58,925	3,347,232
Sale Volumes Outstanding (Mcf*) Volumes in Mcf at 14.65 psia & 60°F		40,513			
Volumes in Michae 14.00 psia & 00 1					
	[Month	Month		Annual
Private Company Helium Storage Contracts		Month Gross Volume	Month Net Helium	Average Percent	Annual Helium FYTD
Private Company Helium Storage Contracts Contact Activity				Average Percent 69.56%	Helium FYTD
Private Company Helium Storage Contracts Contact Activity Crude Acquired (<i>Mcf*</i>)		Gross Volume	Net Helium		Helium FYTD 358,335
Private Company Helium Storage Contracts Contact Activity Crude Acquired (<i>Mcf*</i>) Crude Disposed (<i>Mcf*</i>)		Gross Volume 56,121	Net Helium 39,035	69.56%	Helium FYTD 358,335 786,330
Private Company Helium Storage Contracts Contact Activity Crude Acquired (<i>Mcf*</i>) Crude Disposed (<i>Mcf*</i>) Net Balance (<i>Mcf*</i>) Balance of Stored Helium End Of Month (<i>Mcf*</i>)		Gross Volume 56,121 157,572	Net Helium 39,035 116,627	69.56%	Helium FYTD 358,335 786,330
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Private Company Helium Storage Contracts Contact Activity Crude Acquired (Mcf*) Crude Disposed (Mcf*) Net Balance (Mcf*) Balance of Stored Helium End Of Month (Mcf*) * Volumes in Mcf at 14.65 psia & 60°F Revenue / Charges Helium Storage Contracts (Charges Billed (\$) Storage Fees Billed (\$) Reservoir Management Fees Billed (\$) Field Compressor Charges (Charges Billed (\$) Funded by the Refiners (provides for booster compression serv Cliffside Refiners, LP, by Agreement #GDA010003 (reimburses Net-Total (Funded by the Refiners for compression costs.) Enrichment Unit Charges (Charges Billed (\$) Reservior Management Fees (RMF) Total operating costs Sub Total - Items provided by BLM Total - Cliffside Refiners, LP, GDA030001 Conservation Helium - Natural Gas - Liquid S Conservation Crude Helium Sales In Kind Sales	BLM for fuel, labor, su	Gross Volume 56,121 157,572 (101,451) pplies, etc.)	Net Helium 39,035 116,627 (77,592)	69.56% 74.02% Month \$422,938 \$254,561 Month \$0 <u>\$0</u> \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	

Table 2 - Bush Dome Reservoir Operations

June - 2016

		Gross V	Vithdrawal	Net Helium	n Withdrawal	Nitr	ogen	Methane	Methane	Ethar	ne plus	Other (CO2,	Ar, H2)
		Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative
TOTAL		447,092	224,609,883	77,666	42,038,435	111,794	55,344,284	229,607	113,836,789	24,000	11,507,117	4,024	1,883,258
BIVINS A-3	Jun-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	Jun-16	40,494	11,467,546	19,889	6,818,191	10,205	2,817,890	9,118	1,617,509	983	160,201	299	53,755
BIVINS A-13	Jun-16	27,446	8,511,713	9,292	4,469,440	6,913	2,188,535	9,877	1,624,100	1,156	180,419	208	49,218
BIVINS A-14	Jun-16	33,233	9,574,739	10,321	5,505,348	8,302	2,427,505	12,867	1,430,422	1,446	154,965	296	56,500
BIVINS A-4	Jun-16	33,952	13,489,467	3,900	2,390,902	8,189	3,268,507	19,473	7,005,954	2,033	704,052	357	120,052
BUSH A-2	Jun-16	38,996	13,163,844	3,642	1,952,642	9,784	3,227,914	22,790	7,141,095	2,515	732,227	265	109,966
Injection	Jun-16	0	66,464,971	0	48,012,584	0	17,119,298	0	780,461	0	36	0	552,592
inj Bivins A-3	Jun-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	Jun-16	0	(24,402,922)	0	(17,662,775)	0	(6,484,304)	0	(142,978)	0	(71)	0	(112,794)
inj Bivins A-13	Jun-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	Jun-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	Jun-16	0	(2,527,801)	0	(1,848,815)	0	(601,353)	0	(42,016)	0	0	0	(35,617)
inj Bush A-2	Jun-16	0	(867,658)	0	(625,258)	0	(215,406)	0	(13,980)	0	0	0	(13,015)
Production	Jun-16	0	1,254,876	0	924,742	0	270,231	0	48,129	0	3,199	0	8,575
BIVINS A-1	Jun-16	0	2,686,608	0	48,896	0	636,995	0	1,798,415	0	175,704	0	26,597
BIVINS A-2	Jun-16	14,476	13,992,325	476	1,880,341	3,374	3,427,039	9,488	7,791,274	994	776,910	145	116,762
BIVINS A-5	Jun-16	21,077	16,036,534	3,976	2,043,935	5,380	3,931,587	10,423	9,014,642	1,135	907,559	163	138,811
BIVINS A-7	Jun-16	10,147	11,806,225	3,105	2,784,574	2,646	2,972,980	3,899	5,410,526	432	551,918	66	86,227
BIVINS A-9	Jun-16	19,565	10,419,153	440	198,632	5,023	2,563,628	12,588	6,867,604	1,352	694,241	162	95,050
BIVINS A-11	Jun-16	21,948	6,433,854	640	138,748	5,587	1,600,603	14,003	4,202,210	1,507	431,697	211	60,595
BIVINS A-15	Jun-16	30,619	9,832,384	533	430,824	7,173	2,342,323	20,428	6,324,110	2,111	633,340	373	101,787
BIVINS B-1	Jun-16	32,043	8,042,989	732	300,198	8,069	1,949,111	21,489	5,179,714	1,549	531,382	204	82,584
BIVINS B-2	Jun-16	24,683	6,680,227	469	125,881	6,272	1,674,022	15,822	4,339,626	1,681	446,740	440	93,958
BUSH A-1	Jun-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	Jun-16	25,326	12,125,857	8,699	2,865,459	6,443	2,998,533	8,987	5,589,790	989	566,129	209	105,946
BUSH A-4	Jun-16	13,072	8,640,354	1,164	1,579,720	3,346	2,161,154	7,662	4,389,323	826	448,028	74	62,130
BUSH A-5	Jun-16	37,069	16,616,556	9,952	3,822,784	9,488	4,171,114	15,695	7,721,330	1,717	785,959	217	115,370
BUSH A-8	Jun-16	13,087	4,252,102	243	77,930	3,248	1,029,953	8,490	2,807,851	892	283,174	215	53,194
BUSH A-9	Jun-16	0	3,860,915	0	105,037	0	930,915	0	2,537,187	0	253,463	0	34,312
BUSH A-11	Jun-16	5,955	4,550,999	122	132,744	1,431	1,088,524	3,917	2,975,347	402	302,144	83	52,240
BUSH B-1	Jun-16	3,901	3,329,764	70	62,506	921	790,092	2,592	2,225,088	280	219,484	38	32,594
FUQUA A-1	Jun-16	0	2,954,098	0	53,854	0	702,798	0	1,975,175	0	193,573	0	28,699
FUQUA A-2	Jun-16	0	132,119	0	2,404	0	31,322	0	88,458	0	8,637	0	1,297
FUQUA A-3	Jun-16	2	9,303,912	0	577,005	0	2,277,687	0	5,790,357	0	583,701	0	75,162
TT Fuel	Jun-16	682	0	12	0	160	0	454	0	49	0	6	0
field-	wide pcts			17.37%	18.72%	25.00%	24.64%	51.36%	50.68%	5.37%	5.12%	0.90%	0.84%

Latest estimates of reserves and feed to HEU

Jun-16

As of EOM

Volumes in BCF

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

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	2.082	0.383	
Injected to Date 2016	(0.019)	(0.014)	
Amount of Raw Gas Available to CHEU	89.748 ====>	10.715 total helium in reservoir	est z-factor
Estimated Bottom Hole Pressure	330.522		0.980

* All volumes on Table 2 are reported in Mcf at 14.65 psia & 60°F

Table 3 - Gas Volumes & Inventory

Crude Helium Enrichment Unit Operations

68,138 5,614,780

5,700 1,223,153

24,902 2,895,702

2,460

438,554

106

3

1,430

0

49,754

154,921

366

0

		-			_	-					_		
		Gross V	/ithdrawal	Net Helium	n Withdrawal	Niti	rogen	Met	thane	Ethar	ne plus	Other (CO	02, Ar, H2)
		Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative
Measured Feed	Jun-16	453,404	89,647,452	78,711	22,036,677	113,288	22,480,604	232,881	40,081,684	24,512	4,276,309	4,013	772,178
Calculated Feed	Jun-16	446,408	89,387,989	77,653	22,010,641	111,634	22,411,120	229,153	39,909,129	23,950	4,285,553	4,017	771,544
Feed to Box	Jun-16	443,089	88,829,794	77,653	22,010,820	111,634	22,411,203	229,153	39,909,175	23,950	4,285,554	698	213,042
Cheu Product	Jun-16	98,957	27,740,518	74,410	21,673,911	21,900	5,328,822	1,981	544,587	4	588	662	192,611
Residue	Jun-16	208,676	39,888,195	69	1,983	5,870	986,068	184,320	35,390,889	18,416	3,508,002	0	1,254
Cold Box Vent	Jun-16	68,138	15,098,531	106	88,975	60,542	13,363,674	7,477	1,584,689	(0)	118	13	61,076

148

0

60,542 4,618,676

13,912 2,155,825

36,011

0

*Before October 2004, the values are estimated

Storage Operations

Flare/Boot Strap Jun-16

Fuel From Cheu Jun-16

Shrinkage/Loss Jun-16

Unaccounted* Jun-16

Inventory (contained helium)		
	Government	Private
Beginning inventory	5,572,386	2,868,600
net acceptances +	0	0
redeliveries	0	(77,592)
In Kind Transfers	0	0
Conservation Crude Sales	0	0
Gain/loss	(555)	
Ending Inventory	5,571,832	2,791,008
Total Helium in Reservoir	10,714,713	
Total Helium in Storage	8,362,840	
Helium in native gas	2,351,873	

Crude Helium Pipeline

	Gross	Net Helium	Percent
Beginning inventory	34,667	25,331	73.07%
Measured to Pipeline (Private Plants)	56,121	39,105	69.68%
Measured from Pipeline (Private Plant	157,572	116,627	74.02%
HEU Production	98,957	74,410	75.19%
Injection	0	0	00.00%
Production	0	0	
Ending Inventory	29,432	21,665	73.61%
Gain/Loss	(2,740)	(555)	

7,477

4,597

0

9,546

846,858

992,102

580,100

0

(0)

952

0

2,460

93,583

194,674

438,554

1,371

13

0

0

14

5,909

3,486

0

0

Tuck Trigg Reservoir Operations

			Since Field
Native Gas (Gross)	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

June - 2016

Table 4 - In Kind Helium Sales

June - 2016

								• • • • •	2010	
	NASA*	Navy*	Army*	Air Force*	DOE*	Other Fed*	Subtotal*	In Kind+	Charges	Billed (\$)**
				In Ki	ind Heli	um			I	
AirGas South West	, Contract n	o. INC98-010)1							(billed quarterly)
Month										
FYTD										
AirGas North Centra Month	al, Contract	no. INC98-0	102							
FYTD										
AirGas Intermounta	in, Contract	t no. INC98-0	0103							
Month FYTD										
Air Liquide Helium	America, Ind	c., Contract	no. INC98-	0104						
Month										
FYTD	.									
Air Products, L.P., O Month	Contract no.	. INC98-0105	j							
FYTD										
Linde Gas North An	nerica, LLC,	, Contract no	. INC98-01	106						
Month FYTD										
Corp Brothers, Inc.	, Contract n	o. INC98-010)7							
Month										
FYTD										
FIBA Technologies	, Inc., Contra	act no. INC9	8-0108							
FYTD										
General Air Service	& Supply C	o., Contract	no. INC98	-0109						
Month FYTD										
Praxair, Inc., Contra	act no. INC9	8-0112								
Month										
FYTD	ing Inc. Co	ntreet ne. IN	000 0442							
United States Weld Month	ing, inc., co	ntract no. IN	1090-0113							
FYTD										
Matheson Tri-Gas,	Inc., Contra	ct no. INC98	-0114							
Month FYTD										
GT & S, Contract no	o. INC00-011	15								
Month FYTD										
Global Gases Amer	ica, Contrac	ct no. INC13-	0116							
Month FYTD										
Total month	19,737	1	0	0	0	19,107	38,845	38,246		\$3,227,962
Total FYTD	45,271	1	0	0	0	52,763	98,034	96,523		\$7,893,382
Total CYTD	33,199	1	0	0	0	34,224	67,424	66,385		\$5,602,894
Cumulative	1,860,357	108,675	450	271,584	421,753	778,139	3,440,957	3,387,670		\$195,531,366
In Kind Transf	ers						Month	FYTD	CYTD	Cumulative
Transferred							0	83,690	58,925	3,347,232
Volume outstanding							40,513			

* 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								
	Award Volume*	Outstanding*	Sales*	Charges E	Billed (\$)**				
	Conservatio	n Helium			(billed quarterly)				
	Air Liquic	le Helium America, I	nc.						
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 \$0					
Cumulative	15,667	Ű	15,667	\$1,488,365					
IACX Energy			. 5,001	÷ 1, 121,000					
Month	0	0	0	\$0					
FYTD	0	0	15,000	\$1,575,000					
Cumulative	15,000	Ĭ	15,000	\$1,575,000					
	.3,000		.3,000	\$1,515,000					
Total month	0	0	0		0				
Total FYTD	626,000	0	886,000		\$0				
Total CYTD	020,000	Ű	000,000		\$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	*11/1	15,000	60°E						

* Volumes in Mcf at 14.65 psia & 60°F

Natural Gas/Liquid Sales

	Natural Gas (Mcf)***	NGLs (gal)	Decatherms	Avg Btu Value	Charges Billed (\$)**			
El Paso Natural Gas		Provides Measured F	irm/Interruptible Tran	sportation Services		(billed monthly)		
Month	206,278		226,691	1,099	(\$27,997)			
FYTD	1,302,983		1,436,259	1,102	(\$251,973)			
Cumulative	39,260,967		43,079,118	1,097	(\$4,500,388)			
Minerals Manageme	ent Service	No Longer Provides	Natural Gas Marketin	g Services				
Cumulative					(\$179,913)			
<u>Tenaska</u>		Purchaser -	Natural Gas		\$\$/Unit			
Month			225,930	\$2.281415	\$515,440			
FYTD			1,437,221	\$1.857545	\$2,669,703			
Cumulative			42,754,434	\$4.619308	\$196,669,358			
Sandstone		Purchaser - Natural (Gas Liquids					
Month		81,236	8,740	\$5.064197	\$44,261			
FYTD		382,410	40,996	\$4.340301	\$177,935			
Cumulative		11,846,709	1,260,671	\$11.759711	\$14,825,127			
	Natural Gas (Mcf)***	NGLs (gal)	Purchased (Dth's)	\$\$ Per Unit	(\$\$/Dth)	Total (\$\$)		
Total month	206,278	81,236	234,670	\$2.265753		\$531,704		
Total FYTD	1,302,983	382,410	1,478,217	\$1.755943		\$2,595,665		
Total CYTD	919,555	249,664	1,018,650	\$1.736067		\$1,768,445		
Cumulative	39,260,967	11,846,709	44,015,105	\$4.717488		\$206,814,184		

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

**Rounded to nearest dollar

Table 6 - Helium Resources Evaluation

All Volumes in Mcf at 14.7 psia & 70°F

Revenue Collected From Federal Leaseholds	Month*	FYTD*
Fee Sales & Royalties	\$1,455,382	\$13,790,630
Natural Gas Royalties (1)	\$0	\$0
Natural Gas Rentals	\$0	\$0
Other	<u>\$50,880</u>	<u>\$364,143</u>
Revenue Collected from Federal Lease Holds	\$1,479,245	\$13,843,036

*Totals do not sum

Helium Analysis and Evaulation	Month	FYTD
Number of Sample Request Letters Sent	0	0
Number of Samples Received	0	0
Number of Samples Analyzed	0	2
Total Number of Samples Analyzed For Resources Division	0	3
Total Number of Other Samples Analyzed (2)	19	86

U. S. Helium Production

Domestic	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					
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 All Volumes in Mcf at 14.65 psia & 60°F

June - 2016

Metered Gas Transferred Gas Character of Construction Month First all Contracts' Communication Month First all Contracts' Communication Month Communication Month Communication Communication Month Communication Month Communication Communicatio	All volumes		4.05 psia 6		od Gos			Transfe	orrod Gas	Stored	Charges	Billed
Month FYTD CYTD CUmulative Month Cumulative Month FYTD Chald Al Contrasts* 98,075 39,035 259,332 29,372 30,724,202 46,467 54,918,172 542,333 507,329 542,203 Storage Fee 542,203 Storage Fee 542,203 Storage Fee 552,764 17,759,203 542,203 Storage Fee 552,764,41 77,749 542,774,97 72,710,008 557,764 787,350 46,467 30,166,223 552,764,41 77,749 55,778,44 55,778,44 55,778,44 55,778,44 55,778,46 55,778,44 55,778,46 55,778,46 55,778,46 55,778,46 55,778,46 55,778,44 57,789,478,778,478,778,789,778,478,778,478,778,789,778,789,778,789,787,78		Gross Gas	Holium %		eu Gas	Holium					Charges	
Total All Contracts* 0		01033 043		Tiellulli	FYTD		Cumulative				Month	
Crude Acquired 56.121 00.6% 39.005 396.335 228.322 0.724.292 46.467 54.316.23 Crude Diponed 157.572 74.0% 116.627 768.30 566.08 51.75.85 46.467 54.3168.321 S224.561 RMF Fees	Total All Contra	acts*				0112	• annanan • e		C diffulative			
Crude Disposed 157.72 74.0% 116.827 786.330 595.080 51.175.385 46.467 30.106.239 5422.038 50.0000 Feb 252.4526 RMF Fee 30 557.74.90 55.718.40 (2014 51) (77.592) (427.995) (338.156) (21.929.81) 0 24.752.573 2.791.008 5977.499 55.718.40 (2014 51) (77.592) (427.995) (338.156) (21.929.81) 0 24.752.573 2.791.008 5977.499 55.718.40 (2014 51) (77.592) (427.995) (338.156) (21.929.81) 0 24.752.573 2.791.008 5977.499 55.718.40 (2014 51) (77.592) (427.995) (338.156) (21.929.81) 0 24.752.573 2.791.008 5977.499 55.718.40 (2014 51) (77.592) (427.995) (338.156) (21.929.81) 0 24.752.573 2.791.008 5977.499 55.718.40 (2014 51) (77.592) (427.995) (338.156) (21.929.81) 0 24.752.573 2.791.008 5977.499 55.718.40 (2014 51) (77.592) (427.995) (338.156) (21.929.81) 0 24.752.573 2.791.008 5977.499 55.718.40 (2014 51) (77.592) (427.995) (338.156) (21.929.81) 0 24.752.573 2.791.008 5977.499 55.718.40 (2014 51) (77.592) (427.995) (338.156) (21.929.81) 0 24.752.573 2.791.008 5977.499 55.718.40 (2014 51) (77.592) (77.592) (427.995) (73.88 (2014 51) (77.592) (73.78 (2014 51) (77.592) (73.78 (2014 51) (77.592) (73.79 (2014 51) (77.592) (73.78 (2014 51) (77.592) (73.78 (2014 51) (77.592) (73.78 (2014 51) (77.592) (73.78 (2014 51) (77.592) (73.78 (2014 51) (73.7			69.6%	39 035	358 335	258 352	30 724 292	46 467	54 918 812			
Circade A Relived 0 0 0 1.478;718 2254,261 RMF Faces NetBalance (101.451) (77,002) (427,995) (238,156) (21.202.811) 0 24.752;573 2,791,008 3577.490 55,718,40 Crude Acquired 0 0 17,406,129 0 18.198,986 0 1											\$422.038	Storage Fees
Inserting (101,451) (77,592) (427,995) (338,156) (21,228,811) 0 2,4752,673 2,791,000 \$677,499 \$5,718,40 Crude Acquired 0 0 17,406,120 0 18,196,898 0 15,149,768 Grude Acquired 0 0 1,478,718 0 15,149,768 0 0 Under Gas North America, LLC, Contract no. 3249 0 9,834 0 0 0 1,478,718 0 0 1,478,718 0 0 0 1,478,718 0 0 0 1,478,718 0 0 0 0 1,478,718 0			74.078					40,407	50,100,255			-
Total Prior Contracts (TERMINATED) 0 0 17.406.129 0 18.196.698 Crude Acquired 0 0 1.475.718 0 19.148.768 Grade A. Rdwd 0 0 1.475.718 0 0 Number di trailers 0 0 9.834 0 0 Crude Acquired 0 0 9.834 0 0 Crude Acquired 0 9.834 0 0 0 Crude Acquired 0 9.834 0 0 0 Crude Acquired 0 9.834 0 0 0 Crude Acquired 0 0 9.834 0 0 Air Products, L.P., Contract no. 3251									24 752 572	2 701 009		
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G	Government Helium	
R	temaining Crude Acquired beginning of the month	5,572,386
С	crude Disposed: In Kind Sales transferred for the month	0
	Conservation Crude Sales/Reserve Sell Down transferred (montl	0
	Gains and Loses for the month	<u>(555)</u>
N	let/Balance of Purchased Helium Remaining for Sale	5,571,832

*Includes In Kind and Conservation Crude transfers from Government storage

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

Field/CHEU Compressor Operations		Month	FYTD	Cumulative
Spot gas fuel price *	\$ per/MMBTU	\$2.28	\$1.83	\$4.91
Fuel used * (now includes field compression well head)	total MMBTU	7,157	60,832	1,690,121
Field Compression Fuel Cost *	\$dollars	\$0	\$4,049	\$658,447
CHEU Compression Fuel Cost *	\$dollars	\$9,729	\$66,271	\$4,270,430
CHEU Process Fuel Cost *	\$dollars	\$6,589	\$40,824	\$2,848,249
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	652	5,452	100,771
#2 Compressor run time *	hours	630	4,326	64,090
#3 Compressor run time *	hours	0	1,065	59,045

* Field/CHEU Compressor Operations based on Jun 16 activity

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Field Compressor Charges	Cł	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.)	<u>\$0</u>	<u>\$88,817</u>	<u>\$2,880,795</u>		
Net Total - Cliffside Refiners, LP	\$0	(\$128,479)	(\$8,541,856)		

* BLM provided fuel cost is based on May 16 fuel consumed

*Rounded to nearest dollar

Crude Helium Enrichment Unit (CHEU)	Мо	nth	FY	Cumulative	
CHEU Runtime	Runtime Hrs	Percent	Runtime Hrs	Percent	Runtime Hrs
Processing feed gas	698	96.9%	6,070	92.3%	110,434
Producing residue gas	669	93.0%	5,195	79.0%	107,913
Producing helium product	617	85.7%	4,954	75.3%	104,519
Producing natural gas liquids	622	86.3%	5,066	77.0%	103,423

	Charges Billed (\$)*		
CHEU Charges	Month	FYTD	Cummulative
Reservior Management Fees (RMF)	\$254,561	\$2,036,485	\$31,541,687
Total operating costs	<u>(\$831,056)</u>	<u>(\$7,367,803)</u>	<u>(\$134,592,309)</u>
Labor	\$130,284	\$1,172,560	\$13,947,763
Compressor fuel cost May 16	\$9,097	\$72,011	\$4,307,195
HEU fuel cost May 16	\$4,900	\$39,380	\$2,879,467
Electrical power cost May 16	\$130,358	\$964,123	\$20,315,227
Other	<u>\$57,336</u>	<u>\$628,004</u>	<u>\$12,845,260</u>
Sub Total - Items provided by BLM	\$331,975	\$2,876,077	\$57,504,266
Total - Cliffside Refiners, LP, GDA030001	(\$499,081)	(\$4,491,726)	(\$77,088,043)

*Rounded to nearest dollar

CHEU Utility Usage	Month	FYTD	Cumulative
Cheu Fuel Gas (Mcf) usage Jun 16	2,615	20,158	530,892
Cheu Pure Water Usage (gallons) Jun 16	3,095	9,111	294,033
Electricity Metered (Kwh) consumed May 16	2,780,781	20,902,655	117,600,526