Bureau of Land Management



Amarillo Field Office Helium Operations Statistical Report for

September - 2016



Distribution:

Fluid Minerals Group Manager, Washington Office

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- -Federal Leased Lands
- -Resources Evaluation & Gas Analysis
- -Division Of Helium Operations, -Engineering and Technical Support

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Amarillo, Texas

Compiled by: Joan Grochowina

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"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: January 19, 2017

Table 1 - Summary of Helium Operations

September - 2016

Helium Enrichment Unit Operations	Month	Month			
Gas Processed	Gross Volume	Net Helium	Average Percent	Gross FYTD	Net FYT[
Measured Plant Feed (Mcf*)	545,112	92,920	17.05%	4,524,157	787,665
Helium Product (Mcf*)	119,188	90,209	75.69%	994,616	744,400
Residue Natural Gas (Mcf*)	283,012	0	0.00%	2,115,620	256
* Volumes in Mcf at 14.65 psia & 60°F					
Natural Gas & Liquids Produced					
Gas Processed				Month	FYT
Natural Gas Sales (Mcf***)				308,665	2,124,56
NGL Sales (gallons) *** Volumes in Mcf at 14.73 psia & 60°F				87,276	616,09
· ·					
Bush Dome Reservoir Operations	Month	Month	_		
Conservation gases from all sources	Gross Volume	Net Helium	Average Percent	Gross FYTD	Net FYT
Total Withdrawn (Mcf*)	557,461	95,004	17.04%	4,594,115	801,98
Crude Injection (Mcf*)	0	0	00.00%	71,898	53,25
Crude Production (Mcf*) * Volumes in Mcf at 14.65 psia & 60°F	0	0	00.00%	37,008	27,16
·					
Storage Operations				-1	
Conservation Helium	Volume Outstanding	Month	FYTD	CYTD	Cumulati
Conservation Crude Sale Volume Sold/Paid (Mcf*)		175,000	1,061,000	175,000	21,127,72
Conservation Crude Sale Volume Transferred (Mcf*)	15,000	0	1,061,000	175,000	21,112,72
Conservation Helium in Storage (EOM) (Mcf*) * Volumes in Mcf at 14.65 psia & 60°F		5,360,727			
	Г				
In Kind Helium		Month	FYTD	CYTD	Cumulat
Sale Volumes Transferred (Mcf*)		0	121,936	97,171	3,385,47
Sale Volumes Outstanding (Mcf*)		41,841			
Volumes in Mcf at 14.65 psia & 60°F					
Duiveta Camananii Halisima Stanana Camturata	[
		Month	Month	_	Annual
Contact Activity		Gross Volume	Net Helium	Average Percent	Helium FYTD
Contact Activity Crude Acquired (Mcf*)		Gross Volume 50,920	Net Helium 33,936	66.65%	Helium FYTD 456,54
Contact Activity Crude Acquired (Mcf*) Crude Disposed (Mcf*)		Gross Volume 50,920 163,524	Net Helium 33,936 119,365	- J	Helium FYTD 456,54 1,143,19
Contact Activity Crude Acquired (Mcf*) Crude Disposed (Mcf*) Net Balance (Mcf*)		Gross Volume 50,920	Net Helium 33,936 119,365 (85,429)	66.65%	Helium FYTD 456,54 1,143,19
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		Gross Volume 50,920 163,524	Net Helium 33,936 119,365	66.65%	Helium FYTD 456,54 1,143,19
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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		Gross Volume 50,920 163,524	Net Helium 33,936 119,365 (85,429)	66.65%	Helium FYTD 456,54 1,143,19 (686,68
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 (\$))		Gross Volume 50,920 163,524	Net Helium 33,936 119,365 (85,429)	66.65% 73.00% Month	Helium FYTD 456,54 1,143,19 (686,65
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 (\$)		Gross Volume 50,920 163,524	Net Helium 33,936 119,365 (85,429)	66.65% 73.00% Month \$47,072	Helium FYTD 456,54 1,143,19 (686,65 FY \$4,755,92
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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 (\$))	ices)	Gross Volume 50,920 163,524	Net Helium 33,936 119,365 (85,429)	66.65% 73.00% Month \$47,072 \$0	Helium FYTD 456,54 1,143,15 (686,65 FY' \$4,755,92 \$2,325,92
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 servi	,	Gross Volume 50,920 163,524 (112,604)	Net Helium 33,936 119,365 (85,429)	66.65% 73.00% Month \$47,072 \$0 Month \$0	Helium FYTD 456,54 1,143,15 (686,65 FY \$4,755,92 \$2,325,92 FY (\$217,25
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 servicliffside Refiners, LP, by Agreement #GDA010003 (reimburses)	,	Gross Volume 50,920 163,524 (112,604)	Net Helium 33,936 119,365 (85,429)	66.65% 73.00% Month \$47,072 \$0	Helium FYTD 456,54 1,143,15 (686,65 FY \$4,755,92 \$2,325,92 FY (\$217,26
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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 (\$)	,	Gross Volume 50,920 163,524 (112,604)	Net Helium 33,936 119,365 (85,429)	66.65% 73.00% Month \$47,072 \$0 Month \$0 \$0 Month	Helium FYTD 456,54 1,143,15 (686,65 FY \$4,755,92 \$2,325,92 FY (\$217,26 \$88.81 (\$128,47
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 servic 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)	,	Gross Volume 50,920 163,524 (112,604)	Net Helium 33,936 119,365 (85,429)	66.65% 73.00% Month \$47,072 \$0 Month \$0 \$0 Month \$0 \$0 \$0 Month \$0	Helium FYTD 456,54 1,143,15 (686,65 FY \$4,755,92 \$2,325,92 FY (\$217,26 \$88,81 (\$128,47
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 serviculated 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	,	Gross Volume 50,920 163,524 (112,604)	Net Helium 33,936 119,365 (85,429)	66.65% 73.00% Month \$47,072 \$0 Month \$0 \$0 \$0 Month \$0 \$0 \$0 (\$700,698)	FYTD 456,54 1,143,19 (686,63 FY \$4,755,92 \$2,325,92 FY (\$217,29 \$88,83 (\$128,47 FY \$2,325,92 (\$9,605,66
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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 servic 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	BLM for fuel, labor, su	Gross Volume 50,920 163,524 (112,604)	Net Helium 33,936 119,365 (85,429)	66.65% 73.00% Month \$47,072 \$0 Month \$0 \$0 \$0 \$0 (\$700,698) \$201,618	FYTD 456,54 1,143,15 (686,65 FY \$4,755,92 \$2,325,92 FY (\$217,25 \$88,81 (\$128,47 FY \$2,325,92 (\$9,605,65 \$3,616,68 (\$5,988,96
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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 service) 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 Sconservation Crude Helium Sales In Kind Sales Natural Gas & Liquid Sales	BLM for fuel, labor, su	Gross Volume 50,920 163,524 (112,604)	Net Helium 33,936 119,365 (85,429)	66.65% 73.00% Month \$47,072 \$0 Month \$0 \$0 \$0 \$0 \$0 \$1,000,698 \$201,618 \$201,618 \$499,081 Month \$0 \$3,340,046 \$842,730	Helium FYTD 456,54 1,143,15 (686,65 FY \$4,755,92 \$2,325,92 FY (\$217,25 \$88,81 (\$128,47 FY \$2,325,92 (\$9,605,65 \$3,616,66 (\$5,988,96 FY \$11,233,42 \$4,890,46
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Table 2 - Bush Dome Reservoir Operations

September - 2016

	ĺ	Gross V	Vithdrawal	Net Helium	n Withdrawal	Nitro	ogen	Methane	Methane	Ethar	ne plus	Other (CO2	, Ar, H2)
		Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative
<u>TOTAL</u>		557,461	226,232,645	95,004	42,311,277	139,349	55,750,581	288,917	114,679,936	29,275	11,593,232	<u>4,915</u>	<u>1,897,618</u>
BIVINS A-3	Sep-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	Sep-16	49,291	11,604,262	23,561	6,883,733	12,305	2,852,306	11,828	1,649,814	1,233	163,643	364	54,767
BIVINS A-13	Sep-16	33,525	8,607,348	11,326	4,501,893	8,328	2,212,510	12,269	1,658,651	1,351	184,352	251	49,941
BIVINS A-14	Sep-16	39,867	9,688,404	12,257	5,540,338	9,810	2,455,743	15,774	1,474,969	1,674	159,838	351	57,515
BIVINS A-4	Sep-16	39,464	13,607,199	4,554	2,404,481	9,523	3,296,939	22,617	7,073,417	2,356	711,082	414	121,280
BUSH A-2	Sep-16	44,549	13,296,511	4,107	1,964,894	11,191	3,261,236	26,128	7,218,866	2,824	740,660	298	110,856
Injection	Sep-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	Sep-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	Sep-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	Sep-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	Sep-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	Sep-16	0	(2,527,801)	0	(1,848,815)	0	(601,353)	0	(42,016)	0	0	0	(35,617)
inj Bush A-2	Sep-16	0	(867,658)	0	(625,258)	0	(215,406)	0	(13,980)	0	0	0	(13,015)
Production	Sep-16	0	1,254,876	0	924,742	0	270,231	0	48,129	0	3,199	0	8,575
BIVINS A-1	Sep-16	0	2,686,608	0	48,896	0	636,995	0	1,798,415	0	175,704	0	26,597
BIVINS A-2	Sep-16	18,870	14,051,094	632	1,882,308	4,414	3,440,781	12,371	7,829,797	1,268	780,869	185	117,339
BIVINS A-5	Sep-16	26,928	16,112,223	5,060	2,058,171	6,883	3,950,931	13,359	9,052,170	1,422	911,564	205	139,387
BIVINS A-7	Sep-16	21,053	11,867,198	6,194	2,802,538	5,497	2,988,897	8,326	5,434,612	899	554,527	137	86,624
BIVINS A-9	Sep-16	32,727	10,512,000	755	200,838	8,390	2,587,435	21,041	6,927,222	2,266	700,676	275	95,828
BIVINS A-11	Sep-16	23,578	6,504,717	692	140,830	6,000	1,618,640	15,035	4,247,398	1,623	436,572	228	61,276
BIVINS A-15	Sep-16	34,725	9,935,647	607	432,630	8,136	2,366,518	23,165	6,392,996	2,394	640,461	423	103,041
BIVINS B-1	Sep-16	36,618	8,152,271	842	302,711	9,279	1,976,803	24,714	5,253,468	1,604	536,168	179	83,120
BIVINS B-2	Sep-16	28,436	6,764,748	540	127,486	7,226	1,695,502	18,229	4,393,808	1,937	452,496	503	95,456
BUSH A-1	Sep-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	Sep-16	30,977	12,214,596	10,635	2,895,927	7,881	3,021,109	10,994	5,621,282	1,211	569,596	257	106,682
BUSH A-4	Sep-16	21,660	8,704,355	2,008	1,585,645	5,556	2,177,567	12,648	4,426,691	1,326	451,958	123	62,494
BUSH A-5	Sep-16	42,546	16,739,834	10,620	3,854,268	10,939	4,202,778	19,108	7,775,768	1,650	790,971	230	116,049
BUSH A-8	Sep-16	21,121	4,313,460	391	79,066	5,242	1,045,178	13,701	2,847,657	1,438	287,353	349	54,205
BUSH A-9	Sep-16	0	3,860,915	0	105,037	0	930,915	0	2,537,187	0	253,463	0	34,312
BUSH A-11	Sep-16	7,127	4,570,802	145	133,147	1,713	1,093,285	4,686	2,988,369	482	303,483	100	52,517
BUSH B-1	Sep-16	4,398	3,342,727	79	62,738	1,038	793,152	2,924	2,233,704	316	220,413	43	32,720
FUQUA A-1	Sep-16	0	2,954,098	0	53,854	0	702,798	0	1,975,175	0	193,573	0	28,699
FUQUA A-2	Sep-16	0	132,119	0	2,404	0	31,322	0	88,458	0	8,637	0	1,297
FUQUA A-3	Sep-16	0	9,303,912	0	577,005	0	2,277,687	0	5,790,357	0	583,701	0	75,162
TT Fuel	Sep-16	230	0	0	0	10	0	188	0	32	0	0	0
field-	wide pcts			17.04%	18.70%	25.00%	24.64%	51.83%	50.69%	5.25%	5.12%	0.88%	0.84%

Latest estimates of reserves and feed to HEU

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

est z-factor 0.980

As of EOM Sep-	16 Volumes i	n BCF		
Initial Gas In Place		330.040		
Produced 1924 to 196	31	48.830		
Injected 1924 to 1961		0.450		
Remaining Gas In Pla	ice 1961	281.660		
Left Behind Pipe, 196	1	82.060 =====	> 1.500	BCF of contained helium
Remaining in Place, 1	961	199.600		
Gas In Place 1961		199.600		
Produced 1961 to July	y 2002	82.450		
Injected 1961 to July	2002	64.510	Net Helium	
Remaining Gas In Pla	ice July 2002	181.660	33.997	
Produced July 2002 tl	nrough Dec 2002	1.096	0.743	
Production 2003 - 15		90.147	23.308	
Injection 2003 - 15		(1.394)	(1.137)	
Produced to Date 201	6	3.705	0.656	
Injected to Date 2016		(0.019)	(0.014)	
Amount of Raw Gas A	Available to CHEU	88.126 =====	> 10.442	total helium in reservoir
Estimated Bottom Ho	le Pressure	324.552		

* 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

		Gross W	/ithdrawal	Net Helium	Withdrawal	Nitr	ogen	Met	hane	Ethar	ne plus	Other (C0	D2, Ar, H2)
		Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative
Measured Feed	Sep-16	545,112	91,262,551	92,920	22,309,398	136,218	22,884,831	282,481	40,919,701	28,677	4,362,150	4,816	786,471
Calculated Feed	Sep-16	557,231	91,009,553	95,004	22,283,482	139,340	22,817,367	288,729	40,751,299	29,243	4,371,501	4,915	785,904
Feed to Box	Sep-16	553,178	90,439,468	95,004	22,283,661	139,340	22,817,449	288,729	40,751,345	29,243	4,371,502	862	215,511
Cheu Product	Sep-16	119,188	28,083,404	90,209	21,933,039	25,758	5,403,214	2,397	551,506	27	736	797	194,909
Residue	Sep-16	283,012	40,690,752	0	2,038	6,882	1,006,098	251,128	36,102,382	25,002	3,578,977	0	1,256
Cold Box Vent	Sep-16	84,772	15,339,655	71	89,207	77,897	13,584,869	6,786	1,604,329	0	118	18	61,132
Flare/Boot Strap	Sep-16	84,772	5,855,904	71	49,986	77,897	4,839,871	6,786	866,498	0	93,583	18	5,966
Fuel From Cheu	Sep-16	6,537	1,240,284	3	375	169	36,455	5,272	1,005,918	1,092	197,536	0	0
Shrinkage/Loss	Sep-16	2,125	444,857	0	0	0	0	0	0	2,125	444,857	0	0
Unaccounted*	Sep-16	39,673	2,996,855	3,747	163,073	22,792	2,214,597	13,092	614,253	(0)	1,371	42	3,560

*Before October 2004, the values are estimated

Storage Operations

Inventory	(contained	helium))
-----------	------------	---------	---

5,359,646	2,831,026
0	0
0	(85,429
0	0
0	0
1,082	
5,360,727	2,745,597
10,441,872	
8,106,324	
2,335,547	
	0 0 0 1,082 5,360,727 10,441,872 8,106,324

Crude Helium Pipeline

Private

Government

_	Gross	Net Helium	Percent
Beginning inventory	25,668	18,797	73.23%
Measured to Pipeline (Private Plants)	50,920	33,960	66.69%
Measured from Pipeline (Private Plant	163,164	119,365	73.16%
HEU Production	119,188	90,209	75.69%
Injection	0	0	00.00%
Production	0	0	
Ending Inventory	33,777	24,682	73.07%
Gain/Loss	1,165	1,082	

September - 2016

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

Table 4 - In Kind Helium Sales

September - 2016

	NASA*	Navy*	Army*	Air Force*	DOE*	Other Fed*	Subtotal*	In Kind+	Charges	Billed (\$)**
				In Ki	ind Heli	um			l	
AirGas South Wes Month FYTD	t, Contract no	o. INC98-010	1							(billed quarterly)
AirGas North Cent Month FYTD	ral, Contract	no. INC98-0	102							
AirGas Intermount Month FYTD	ain, Contract	no. INC98-0	103							
Air Liquide Helium Month FYTD	America, Inc	., Contract ı	no. INC98-0)104						
Air Products, L.P., Month FYTD	Contract no.	INC98-0105								
Linde Gas North A Month FYTD	merica, LLC,	Contract no	. INC98-01	06						
Corp Brothers, Inc Month FYTD	., Contract no	o. INC98-010	7							
FIBA Technologies Month FYTD	s, Inc., Contra	ict no. INC9	8-0108							
General Air Service Month FYTD	e & Supply C	o., Contract	no. INC98-	0109						
Praxair, Inc., Conti Month FYTD	ract no. INC98	3-0112								
United States Weld Month FYTD	ding, Inc., Co	ntract no. IN	C98-0113							
Matheson Tri-Gas, Month FYTD	Inc., Contrac	t no. INC98-	0114							
GT & S, Contract n Month FYTD	no. INC00-011	5								
Global Gases Ame Month FYTD	erica, Contrac	t no. INC13-	0116							
Total month	25,665	3	0	0	0	14,527	40,195	39,574		\$3,340,046
Total FYTD	70,935	4	0	0	0	67,290	138,229	136,097		\$11,233,428
Total CYTD	58,863	4	0	0	0	48,752	107,619	105,959		\$8,942,940
Cumulative	1,886,021	108,677	450	271,584	421,753	792,666	3,481,151	3,427,244		\$198,871,411
In Kind Trans	fers						Month	FYTD	CYTD	Cumulative
Transferred Volume outstanding							0 41,841	121,936	97,171	3,385,478

^{*} Volumes in Mcf at 14.7 psia & 70°F

⁺ Volumes in Mcf at 14.65 psia & 60°F

Table 5 - Conservation Crude Sales/Reserve Sell-down

September - 2016

	Award Volume*	Outstanding*	Sales*	Charges E	Billed (\$)**
	Conservatio		'		(billed quarterly)
		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	613,184	419,309	318,875	\$33,038,000	
Cumulative	8,448,745		8,029,436	\$565,835,027	
Linde Gas North America, LLC					
Month	0	0	0	\$0	
FYTD	280,355	140,334	140,021	\$14,562,184	
Cumulative	6,170,987		6,030,653	\$404,691,853	
Keyes Helium Co., LLC					
Month	0	0	0	\$0	
FYTD	42,844	21,844	21,000	\$2,184,000	
Cumulative	998,957		977,113	\$66,015,798	
Matheson Tri-Gas, Inc.					
Month	0	(175,000)	175,000	\$18,750,000	
FYTD	289,700	46,700	243,000	\$25,822,000	
Cumulative	328,700		282,000	\$29,319,500	
Praxair, Inc.					
Month	0	0	0	\$0	
FYTD	366,617	183,513	273,104	\$28,407,816	
Cumulative	5,403,189		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	13,300	13,300	0	\$0	
Cumulative	36,267		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	(175,000)	175,000		0
Total FYTD	1,626,000	825,000	1,061,000	·	\$0
Total CYTD	1,000,000		175,000		\$0
Cumulative	21,952,729		21,127,729		\$1,492,017,703
Conservation Crude Transfers		Month	FYTD	CYTD	Cumulative
Transferred		0	1,061,000	175,000	21,112,729
Volume outstanding		15,000			
	*1//	Mcf at 1/165 psia &	2005		

Helium & Natural Gas Sales

Natural Gas/Liquid Sales

Natural Gas/Liquid Sales								
	Natural Gas (Mcf)***	NGLs (gal)	Decatherms	Avg Btu Value	Charges E	Billed (\$)**		
El Paso Natural Gas		Provides Measured F	irm/Interruptible Tran	sportation Services		(billed monthly)		
Month	308,665		311,310	1,009	(\$27,997)			
FYTD	2,124,564		2,311,681	1,088	(\$335,964)			
Cumulative	40,082,548		43,954,540	1,097	(\$4,584,379)			
Minerals Manageme	ent Service	No Longer Provides	Natural Gas Marketin	g Services				
Cumulative					(\$179,913)			
<u>Tenaska</u>		Purchaser -	Natural Gas		\$\$/Unit			
Month			309,000	\$2.677620	\$827,384			
FYTD			2,307,892	\$2.138108	\$4,934,522			
Cumulative			43,625,105	\$4.579031	\$198,934,176			
Sandstone		Purchaser - Natural (Gas Liquids					
Month		87,276	9,475	\$4.574457	\$43,343			
FYTD		616,095	66,314	\$4.401813	\$291,902			
Cumulative		12,080,394	1,285,989	\$11.616813	\$14,939,094			
	Natural Gas (Mcf)***	NGLs (gal)	Purchased (Dth's)	\$\$ Per Unit	(\$\$/Dth)	Total (\$\$)		
Total month	308,665	87,276	318,475	\$2.646143		\$842,730		
Total FYTD	2,124,564	616,095	2,374,206	\$2.059829		\$4,890,460		
Total CYTD	1,741,136	483,349	1,914,639	\$2.122196		\$4,063,239		
Cumulative	40,082,548	12,080,394	44,911,094	\$4.674469		\$209,108,978		

^{***} Volumes in Mcf at 14.73 psia & 60°F

^{*} Volumes in Mcf at 14.65 psia & 60°F

All Volumes in Mcf at 14.7 psia & 70°F

Revenue Collected From Federal Leaseholds	Month*	FYTD*
Fee Sales & Royalties	\$362,490	\$17,219,583
Natural Gas Royalties (1)	\$0	\$0
Natural Gas Rentals	\$0	\$0
Other	\$28,342	<u>\$472,337</u>
Revenue Collected from Federal Lease Holds	\$332,800	\$17,221,111

^{*}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	2	48
Total Number of Samples Analyzed For Resources Division	2	51
Total Number of Other Samples Analyzed (2)	13	138

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	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 All Volumes in Mcf at 14.65 psia & 60°F

September - 2016

All Volumes	All Volumes in Mcf at 14.65 psia & 60°F										
				ed Gas			Transferred Gas		Stored	Charges	Billed
	Gross Gas		Helium	EVED	Helium	Ourse detins	Heliu		Helium	N/a maths	(\$)**
T		Month		FYTD	CYTD	Cumulative	Month	Cumulative	EOM	Month	FYTD
Total All Contra		00.00/	00.000	450 540	050 500	04 000 774		== 000 000			
Crude Acquired	50,920	66.6%	33,936	456,543	356,560	31,900,771	30,280	55,229,929		0.17.070	o. =
Crude Disposed	163,524	73.0%	119,365	1,143,195	953,373	51,532,250	30,280	30,264,110		\$47,072	Storage Fees
Grade-A Rdlvrd	0		0	0	0	1,478,718	_			<u>\$0</u>	RMF Fees
Net/Balance	(112,604)		(85,429)	(686,652)	(596,813)	(21,110,197)	0	24,965,819	2,745,597	\$47,072.40	\$7,081,842
Total Prior Con	tracts (TERN	MINATED)									
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 Nort	th America, L	LC, Contra	act no. 324	49							
Crude Acquired											
Crude Disposed											
Net/Balance											
Praxair, Inc., Co	ontract no. 3	251									
Crude Acquired											
Crude Disposed											
Net/Balance											
Air Products, L	P., Contract	t no. 3256									
Crude Acquired											
Crude Disposed											
Net/Balance											
IACX Energy, C	Contract no.	3297									
Crude Acquired											
Crude Disposed											
Net/Balance											
Pioneer Natura	I Resources	USA, Inc, C	Contract n	o. 3286							
Crude Acquired											
Crude Disposed											
Net/Balance											
Keyes Helium (Co., LLC, Co	ntract no. 3	3287								
Crude Acquired											
Crude Disposed											
Net/Balance											
Air Liquide Hel	ium America	. Inc Cont	ract no. 3	284							
Crude Acquired		.,,									
Crude Disposed											
Net/Balance											
Matheson Tri-G	Bas. Inc Cor	ntract no. 3	288								
Crude Acquired	,,										
Crude Disposed											
Net/Balance											
Airgas Merchai	nt Gases. Co	ntract no	3290								
Crude Acquired											
Crude Disposed											
Net/Balance											
Global Gases A	America, Cor	ntract no. 3	293								
Crude Acquired											
Crude Disposed											
Net/Balance											
Linn Operating	, Inc., Contra	act no. 3290	6								
Crude Acquired											
Crude Disposed											
Net/Balance											

Government H	elium	
Remaining Crude	Acquired beginning of the month	5,359,646
Crude Disposed:	In Kind Sales transferred for the month	0
	Conservation Crude Sales/Reserve Sell Down transferred (mont	0
	Gains and Loses for the month	<u>1,082</u>
Net/Balance of Pu	rchased Helium Remaining for Sale	5,360,727

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

Field/CHEU Compressor Operations		Month	FYTD	Cumulative
Spot gas fuel price ∗	\$ per/MMBTU	\$2.68	\$1.99	\$4.88
Fuel used * (now includes field compression well head)	total MMBTU	7,748	81,634	1,710,923
Field Compression Fuel Cost *	\$dollars	\$0	\$4,049	\$658,447
CHEU Compression Fuel Cost *	\$dollars	\$8,734	\$91,845	\$4,296,004
CHEU Process Fuel Cost *	\$dollars	\$8,876	\$66,249	\$2,873,674
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	500	6,947	102,266
#2 Compressor run time *	hours	253	5,699	65,463
#3 Compressor run time *	hours	201	1,344	59,324

^{*} Field/CHEU Compressor Operations based on Sep 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.)	<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 Aug 16 fuel consumed

^{*}Rounded to nearest dollar

Crude Helium Enrichment Unit (CHEU)	Month FYTD		Cumulative		
CHEU Runtime	Runtime Hrs	Percent	Runtime Hrs Percent		Runtime Hrs
Processing feed gas	720	100.0%	8,204	93.4%	112,568
Producing residue gas	643	89.3%	7,089	80.7%	109,807
Producing helium product	635	88.2%	6,780	77.2%	106,345
Producing natural gas liquids	643	89.3%	6,951	79.1%	105,309

		Charges Billed (\$)*		
CHEU Charges		Month	FYTD	Cummulative
Reservior Management Fees (RMF)		\$0	\$2,325,921	\$31,831,123
Total operating costs		<u>(\$700,698)</u>	(\$9,605,652)	(\$136,830,158)
Labor		\$130,284	\$1,563,413	\$14,338,616
Compressor fuel cost Aug 16		\$0	\$72,011	\$4,307,195
HEU fuel cost Aug 16		\$0	\$39,380	\$2,879,467
Electrical power cost Aug 16		\$0	\$1,099,876	\$20,450,980
Other		<u>\$71,333</u>	<u>\$842,004</u>	\$13,059,260
Sub Total - Items provided by BLM		\$201,618	\$3,616,684	\$58,244,873
Total - Cliffside Refiners, LP, GDA030001		(\$499,081)	(\$5,988,968)	(\$78,585,285)

*Rounded to nearest dollar

CHEU Utility Usage	Month	FYTD	Cumulative
Cheu Fuel Gas (Mcf) usage Sep 16	2,919	28,905	539,639
Cheu Pure Water Usage (gallons) Sep 16	46	9,526	294,448
Electricity Metered (Kwh) consumed Aug 16	4,600	23,419,347	120,117,218