

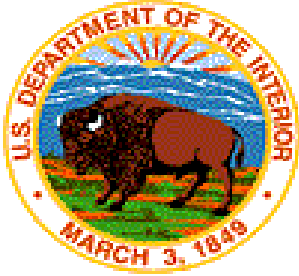
Bureau of Land Management

Amarillo Field Office

Helium Operations

Statistical Report

for



June - 2019

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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Issued: October 2, 2019

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

Revised

Approved for Distribution: Amanda L. Clark

Date: October 1, 2019

Table 1 - Summary of Helium Operations

June - 2019

Helium Enrichment Unit Operations

Gas Processed	Month Gross Volume	Month Net Helium	Average Percent	Gross FYTD	Net FYTD
Measured Plant Feed (Mcf*)	458,331	68,360	14.92%	4,212,197	649,493
Helium Product (Mcf*)	94,208	67,958	72.14%	883,981	645,201
Residue Natural Gas (Mcf*)	228,360	0	0.00%	2,176,120	0

* Volumes in Mcf at 14.65 psia & 60°F

Natural Gas & Liquids Produced

Gas Processed	Month	FYTD
Natural Gas Sales (Mcf***)	226,358	2,157,958
NGL Sales (gallons)	82,944	807,041

*** 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Total Withdrawn (Mcf*)	456,432	68,058	14.91%	4,218,999	650,420
Crude Injection (Mcf*)	0	0	00.00%	0	0
Crude Production (Mcf*)	0	0	00.00%	0	0

* 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	0	0	23,073,063
Conservation Crude Sale Volume Transferred (Mcf*)	0	0	0	0	1,203,477
Conservation Helium in Storage (EOM) (Mcf*)		2,855,656			

* Volumes in Mcf at 14.65 psia & 60°F

In Kind Helium

	Month	FYTD	CYTD	Cumulative
Sale Volumes Transferred (Mcf*)	1,156	129,889	88,025	3,810,137
Sale Volumes Outstanding (Mcf*)	46,699			

* 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*)	8,861	6,238	70.40%	93388
Crude Disposed (Mcf*)	100,631	72,377	71.92%	722600
Net Balance (Mcf*)	(91,770)	(66,139)		(629,212)
Balance of Stored Helium End Of Month (Mcf*)		2,597,211		

* Volumes in Mcf at 14.65 psia & 60°F

Revenue / Charges

Helium Storage Contracts (Charges Billed (\$))	Month	FYTD
Storage Fees Billed (\$)	\$454,283	\$4,440,053
Resource Management Fees Billed (\$)	\$312,458	\$2,499,669
Total Storage and RMF Collected	\$766,741	\$6,939,722

Conservation Helium - Natural Gas - Liquid Sales

(Charges Billed (\$))	Month	FYTD
Conservation Crude Helium Sales	\$0	\$0
In Kind Sales	\$3,759,263	\$11,704,092
Natural Gas & Liquid Sales	\$138,435	\$3,476,332

Helium Resources Evaluation

	Month	FYTD
Revenue Collected from Federal Lease Holds	\$1,852,650	\$18,152,531
Helium Sample Collection Report for month	Submitted - 0	Received - 0
		Analyzed - 17

*Rounded to nearest dollar

Table 2 - Bush Dome Reservoir Operations

June - 2019

		Gross Withdrawal		Net Helium Withdrawal		Nitrogen		Methane	Methane	Ethane plus		Other (CO2, Ar, H2)	Cumulative
		Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	
TOTAL		<u>456,432</u>	<u>243,013,098</u>	<u>68,058</u>	<u>45,004,786</u>	<u>112,655</u>	<u>59,909,702</u>	<u>243,986</u>	<u>123,480,570</u>	<u>27,039</u>	<u>12,555,147</u>	<u>4,694</u>	<u>2,062,893</u>
BIVINS A-3	Jun-19	0	10,961,114	0	3,548,629	0	2,772,147	0	4,159,384	0	407,301	0	73,653
BIVINS A-6	Jun-19	42,143	13,098,683	15,601	7,522,946	10,510	3,224,901	14,121	2,075,455	1,575	209,243	336	66,139
BIVINS A-13	Jun-19	30,864	9,694,029	9,418	4,853,642	7,730	2,483,423	12,082	2,068,248	1,396	230,581	237	58,135
BIVINS A-14	Jun-19	35,302	10,955,189	8,381	5,891,238	8,670	2,767,161	16,110	2,009,784	1,806	218,002	335	69,005
BIVINS A-4	Jun-19	29,211	14,764,938	2,777	2,529,753	6,955	3,575,331	17,259	7,743,059	1,879	782,629	341	134,166
BUSH A-2	Jun-19	7,953	14,064,934	342	2,022,213	1,980	3,454,337	4,999	7,679,920	578	792,365	52	116,099
Injection	Jun-19	0	66,474,735	0	48,019,788	0	17,121,580	0	780,676	0	37	0	552,655
inj Bivins A-3	Jun-19	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-19	0	(24,412,686)	0	(17,669,978)	0	(6,486,588)	0	(143,192)	0	(72)	0	(112,856)
inj Bivins A-13	Jun-19	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-19	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-19	0	(2,527,801)	0	(1,848,815)	0	(601,353)	0	(42,016)	0	0	0	(35,617)
inj Bush A-2	Jun-19	0	(867,658)	0	(625,258)	0	(215,406)	0	(13,980)	0	0	0	(13,015)
Production	Jun-19	0	1,254,876	0	924,742	0	270,231	0	48,129	0	3,199	0	8,575
BIVINS A-1	Jun-19	0	2,686,608	0	48,896	0	636,995	0	1,798,415	0	175,704	0	26,597
BIVINS A-2	Jun-19	17,466	14,723,396	546	1,904,984	4,062	3,597,568	11,411	8,268,056	1,267	828,687	180	124,101
BIVINS A-5	Jun-19	23,399	16,995,138	4,091	2,219,859	5,906	4,175,786	11,861	9,493,372	1,345	959,691	196	146,431
BIVINS A-7	Jun-19	14,109	12,296,027	4,176	2,929,726	3,626	3,100,037	5,559	5,603,045	650	573,710	99	89,509
BIVINS A-9	Jun-19	26,746	11,533,717	771	227,367	6,780	2,847,225	17,055	7,581,609	1,903	772,814	237	104,702
BIVINS A-11	Jun-19	17,482	7,121,785	525	159,025	4,389	1,774,157	11,150	4,641,254	1,237	479,855	180	67,494
BIVINS A-15	Jun-19	31,687	11,053,716	534	451,815	7,325	2,626,239	21,193	7,139,989	2,227	718,559	408	117,114
BIVINS B-1	Jun-19	30,393	9,220,615	705	327,576	7,394	2,238,009	19,755	5,944,314	2,135	613,108	404	97,607
BIVINS B-2	Jun-19	26,979	7,696,013	503	144,982	6,789	1,929,134	17,301	4,992,738	1,870	517,437	516	111,722
BUSH A-1	Jun-19	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-19	26,106	13,183,786	8,124	3,210,065	6,521	3,265,675	10,072	5,983,572	1,158	609,574	231	114,900
BUSH A-4	Jun-19	21,244	9,404,132	1,651	1,646,302	5,402	2,356,589	12,638	4,837,791	1,425	496,981	127	66,469
BUSH A-5	Jun-19	38,491	18,123,828	9,192	4,206,984	9,729	4,554,834	17,339	8,377,189	1,990	860,068	241	124,754
BUSH A-8	Jun-19	15,525	4,920,190	284	90,174	3,831	1,195,019	10,057	3,241,160	1,072	329,107	281	64,730
BUSH A-9	Jun-19	0	3,860,915	0	105,037	0	930,915	0	2,537,187	0	253,463	0	34,312
BUSH A-11	Jun-19	15,744	5,041,327	339	143,389	3,754	1,206,168	10,304	3,296,700	1,112	335,866	235	59,205
BUSH B-1	Jun-19	5,587	3,478,404	97	65,108	1,301	824,842	3,719	2,324,041	412	230,322	58	34,091
FUQUA A-1	Jun-19	0	2,954,098	0	53,854	0	702,798	0	1,975,175	0	193,573	0	28,699
FUQUA A-2	Jun-19	0	132,119	0	2,404	0	31,322	0	88,458	0	8,637	0	1,297
FUQUA A-3	Jun-19	0	9,303,912	0	577,005	0	2,277,687	0	5,790,357	0	583,701	0	75,162
TT Fuel	Jun-19	255	0	4	0	60	0	170	0	19	0	3	0
field-wide pct's				14.91%	18.52%	24.68%	24.65%	53.46%	50.81%	5.92%	5.17%	1.03%	0.85%

Latest estimates of reserves and feed to HEU

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

As of EOM Jun-19 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 - 18	108.029	26.256
Injection 2003 - 18	(1.423)	(1.159)
Produced to Date 2019	2.648	0.401
Injected to Date 2019	0.000	0.000
Amount of Raw Gas Available to CHEU	71.310	=====> 7.756 total helium in reservoir
Estimated Bottom Hole Pressure	262.687	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

June - 2019

Crude Helium Enrichment Unit Operations

		Gross Withdrawal		Net Helium Withdrawal		Nitrogen		Methane		Ethane plus		Other (CO2, Ar, H2)	
		Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative
Measured Feed	Jun-19	458,331	107,920,187	68,360	24,969,181	113,127	27,010,997	244,981	49,657,689	27,149	5,333,513	4,714	948,808
Calculated Feed	Jun-19	456,177	107,791,965	68,054	24,964,620	112,595	26,972,269	243,816	49,553,750	27,020	5,350,292	4,691	951,034
Feed to Box	Jun-19	452,114	107,081,170	68,054	24,964,799	112,595	26,972,351	243,816	49,553,796	27,020	5,350,287	629	239,938
Cheu Product	Jun-19	94,208	31,684,906	67,958	24,598,158	23,584	6,240,072	2,064	627,440	1	913	601	218,323
Residue	Jun-19	228,360	49,497,594	0	2,172	5,845	1,204,713	201,699	43,923,349	20,816	4,366,096	0	1,265
Cold Box Vent	Jun-19	66,705	17,655,851	124	90,838	57,873	15,663,717	8,694	1,839,591	0	121	14	61,584
Flare/Boot Strap	Jun-19	66,705	8,172,100	124	51,617	57,873	6,918,719	8,694	1,101,760	0	93,586	14	6,417
Fuel From Cheu	Jun-19	5,570	1,466,661	3	488	144	42,318	4,492	1,188,491	931	235,364	0	0
Shrinkage/Loss	Jun-19	4,524	556,278	0	0	0	0	0	0	4,524	556,278	0	0
Unaccounted*	Jun-19	41,573	4,046,048	(665)	169,189	22,081	2,990,899	20,149	880,934	(0)	1,099	9	3,927

*Before October 2004, the values are estimated

Storage Operations

Inventory (contained helium)

	Government	Private
Beginning inventory	2,858,207	2,662,194
net acceptances +	0	0
redeliveries	0	(66,139)
In Kind Transfers	(1,156)	1,156
Conservation Crude Sales	0	0
Gain/loss	(1,395)	
Ending Inventory	2,855,656	2,597,211
Total Helium in Reservoir	7,755,566	
Total Helium in Storage	5,452,867	
Helium in native gas	2,302,700	

Crude Helium Pipeline

	Gross	Net Helium	Percent
Beginning inventory	27,278	19,279	70.68%
Measured to Pipeline (Private Plants)	8,861	6,283	70.91%
Measured from Pipeline (Private Plant)	100,631	72,377	71.92%
HEU Production	94,208	67,958	72.14%
Injection	0	0	00.00%
Production	0	0	
Ending Inventory	27,437	19,748	71.98%
Gain/Loss	(2,279)	(1,395)	

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

June - 2019

	NASA*	Navy*	Army*	Air Force*	DOE*	Other Fed*	Subtotal*	In Kind+	Charges Billed (\$) **	
In Kind Helium									(billed quarterly)	
Airgas Merchant Gases, Contract no. INC18-0102										
Month										
FYTD										
Air Liquide Helium America, Inc., Contract no. INC18-0104										
Month										
FYTD										
Air Products, L.P., Contract no. INC18-0105										
Month										
FYTD										
Messer, LLC, Contract no. INC18-0106										
Month										
FYTD										
Praxair, Inc., Contract no. INC18-0112										
Month										
FYTD										
Matheson Tri-Gas, Inc., Contract no. INC18-0114										
Month										
FYTD										
Global Gases America, Contract no. INC18-0116										
Month										
FYTD										
Total month	14,197	69	0	0	0	25,964	40,230	39,607	\$3,759,263	
Total FYTD	62,363	69	0	0	0	67,208	129,640	127,632	\$11,704,092	
Total CYTD	35,609	69	0	0	0	46,837	82,516	81,238	\$7,714,208	
Cumulative	2,110,814	108,754	450	271,593	422,045	1,003,765	3,917,419	3,856,761	\$236,084,662	
In Kind Transfers							Month	FYTD	CYTD	Cumulative
Transferred							1,156	129,889	88,025	3,810,137
Volume outstanding							46,699			

* Volumes in Mcf at 14.7 psia & 70°F

**Rounded to nearest dollar

+ Volumes in Mcf at 14.65 psia & 60°F

Natural Gas / Natural Gas Liquid Sales

	Natural Gas (Mcf)***	NGLs (gal)	Decatherms	Avg Btu Value	Charges Billed (\$) **
El Paso Natural Gas					
Provides Measured Firm/Interruptible Transportation Services (billed monthly)					
Month	226,358	---	248,997	1,100	\$0
FYTD	2,157,958	---	2,379,498	1,103	\$0
Cumulative	48,845,534	---	53,176,548	1,089	(\$5,088,325)
Minerals Management Service					
No Longer Provides Natural Gas Marketing Services					
Cumulative	---	---	---	---	(\$179,913)
ETC Marketing Ltd					
Purchaser - Natural Gas					
Month	---	---	258,500	\$0.408926	\$105,708
FYTD	---	---	2,428,486	\$1.242128	\$3,016,490
Cumulative	---	---	53,045,025	\$4.146552	\$219,127,412
Sandstone					
Purchaser - Natural Gas Liquids					
Month	---	82,944	8,982	\$3.643716	\$32,728
FYTD	---	807,041	87,445	\$5.258651	\$459,843
Cumulative	---	15,181,613	1,617,609	\$10.515158	\$17,009,414
	Natural Gas (Mcf)***	NGLs (gal)	Purchased (Dth's)	\$\$ Per Unit (\$\$/Dth)	Total (\$)
Total month	226,358	82,944	267,482	\$0.517550	\$138,435
Total FYTD	2,157,958	807,041	2,515,931	\$1.381728	\$3,476,332
Total CYTD	1,133,538	435,531	1,302,733	\$0.853766	\$1,112,230
Cumulative	48,845,534	15,181,613	54,662,634	\$4.238638	\$230,868,588

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

**Rounded to nearest dollar

Table 5 - Conservation Crude Sales/Reserve Sell-down

June - 2019

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	0	0	0	\$0	
Cumulative	335,217		335,217	\$25,454,815	
<u>Air Products, L.P.</u>					
Month	0	0	0	\$0	
FYTD	0	0	0	\$0	
Cumulative	9,201,991		9,201,991	\$735,759,540	
<u>Messer, LLC</u>					
Month	0	0	0	\$0	
FYTD	0	0	0	\$0	
Cumulative	6,310,276		6,310,276	\$437,286,782	
<u>Keyes Helium Co., LLC</u>					
Month	0	0	0	\$0	
FYTD	0	0	0	\$0	
Cumulative	1,016,747		1,016,747	\$70,653,572	
<u>Matheson Tri-Gas, Inc.</u>					
Month	0	0	0	\$0	
FYTD	0	0	0	\$0	
Cumulative	361,534		361,534	\$38,417,646	
<u>Praxair, Inc.</u>					
Month	0	0	0	\$0	
FYTD	0	0	0	\$0	
Cumulative	5,577,644		5,577,644	\$426,522,384	
<u>Global Gases America</u>					
Month	0	0	0	\$0	
FYTD	0	0	0	\$0	
Cumulative	37,767		37,767	\$3,798,165	
<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	0	\$0	
Cumulative	16,220		16,220	\$1,720,180	
<u>Uniper Global Commodities North America LLC</u>					
Month	0	0	0	\$0	
FYTD	0	0	0	\$0	
Cumulative	42,834		42,834	\$5,301,246	
<u>Weil Group Resources LLC</u>					
Month	0	0	0	\$0	
FYTD	0	0	0	\$0	
Cumulative	22,500		22,500	\$2,791,500	
<u>NAH USA Helum Marketing, Inc</u>					
Month	0	0	0	\$0	
FYTD	0	0	0	\$0	
Cumulative	12,834		12,834	\$1,611,246	
<u>Progressive Chemical Technologies LLC</u>					
Month	0	0	0	\$0	
FYTD	0	0	0	\$0	
Cumulative	1,500		1,500	\$262,500	
Total month					
	0	0	0	0	
Total FYTD					
	0	0	0	\$0	
Total CYTD					
	0		0	\$0	
Cumulative					
	23,073,063		23,073,063	\$1,762,102,941	
Conservation Crude Transfers					
		Month	FYTD	CYTD	Cumulative
Transferred		0	0	0	1,203,477
Volume outstanding		0			

* Volumes in Mcf at 14.65 psia & 60°F

Table 6 - Helium Resources Evaluation

June - 2019

All Volumes in Mcf at 14.7 psia & 70°F

Revenue Collected From Federal Leaseholds	Month*	FYTD*
Fee Sales & Royalties	\$1,855,601	\$18,104,580
Natural Gas Royalties (1)	\$0	\$0
Natural Gas Rentals	\$0	\$0
Other	\$47,950	\$580,189
Revenue Collected from Federal Lease Holds	\$1,852,650	\$18,152,531

*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	0
Total Number of Other Samples Analyzed (2)	17	164

U. S. Helium Production

<i>Domestic</i>	FY Volume	CY Volume
2013 Helium Sold	4,725,187	4,623,130
2014 Helium Sold	4,279,765	4,166,708
2015 Helium Sold	3,815,746	3,463,698
2016 Helium Sold	3,282,185	3,466,014
2017 Helium Sold	4,559,100	4,644,278
Estimated Helium Resources as of 12/31/2016 (Mcf)		723,000,000

	FY-2017	CY-2017
U.S. Helium Exports (3)	2,520,645	2,451,207
US Helium Imports	731,407	666,908

(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

June - 2019

All Volumes in Mcf at 14.65 psia & 60°F

	Metered Gas					Transferred Gas Helium		Stored Helium EOM	Charges Billed (\$)**		
	Gross Gas Month	Helium %	Helium	FYTD	Helium CYTD	Cumulative	Month		Cumulative	Month	FYTD
Total All Contracts*											
Crude Acquired	8,861	70.4%	6,238	93,388	67,330	27,433,552	8,980	61,064,863			
Crude Disposed	100,631	71.9%	72,377	722,600	466,815	54,577,278	7,824	26,815,249			\$454,282.99 Storage Fees
Grade-A Rdlvrd	0		0	0	0	1,478,718					\$312,457.68 RMF Fees
Net/Balance	(91,770)		(66,139)	(629,212)	(399,485)	(28,622,444)	1,156	34,249,614	2,597,211		\$766,740.67 \$6,939,722
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		
Messer, 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											
Air Liquide Helium America, Inc., Contract no. 3284											
Crude Acquired											
Crude Disposed											
Net/Balance											
Keyes Helium Co., LLC, Contract no. 3287											
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											
IACX Energy, Contract no. 3297											
Crude Acquired											
Crude Disposed											
Net/Balance											
Uniper Global Commodities North America LLC, Contract no. 3298											
Crude Acquired											
Crude Disposed											
Net/Balance											
Weil Group Resources LLC, Contract no. 3299											
Crude Acquired											
Crude Disposed											
Net/Balance											
NAH USA Helium Marketing, Inc, Contract no. 3300											
Crude Acquired											
Crude Disposed											
Net/Balance											
Progressive Chemical Technologies LLC, Contract no. 3301											
Crude Acquired											
Crude Disposed											
Net/Balance											

Government Helium	
Remaining Crude Acquired beginning of the month	2,858,207
Crude Disposed: In Kind Sales transferred for the month	(1,156)
Conservation Crude Sales/Reserve Sell Down transferred (t	0
Gains and Losses for the month	(1,395)
Net/Balance of Purchased Helium Remaining for Sale	2,855,656

*Includes In Kind and Conservation Crude transfers from Government storage

**Rounded to nearest dollar

** New Contracts

Table 8 - Compression & CHEU (Operations)

June - 2019

Field/CHEU Compressor Operations

		Month	FYTD	Cumulative
Spot gas fuel price *	\$ per/MMBTU	\$0.41	\$1.37	\$4.52
Fuel used * (now includes field compression well head)	total MMBTU	6,652	66,680	1,973,963
#1 Compressor run time *	hours	671	4,827	121,675
#2 Compressor run time *	hours	634	2,440	82,070
#3 Compressor run time *	hours	41	4,218	68,037

* Field/CHEU Compressor Operations based on Jun 19 activity

Crude Helium Enrichment Unit (CHEU)

CHEU Runtime	Month		FYTD		Cumulative
	Runtime Hrs	Percent	Runtime Hrs	Percent	Runtime Hrs
Processing feed gas	703	97.6%	6,278	95.8%	135,913
Producing residue gas	690	95.9%	6,129	93.5%	132,762
Producing helium product	639	88.8%	5,976	91.2%	128,932
Producing natural gas liquids	683	94.8%	6,085	92.9%	128,123

CHEU Utility Usage

	Month	FYTD	Cumulative
CheU Fuel Gas (Mcf) usage Jun 19	2,879	26,383	637,517
CheU Pure Water Usage (gallons) Jun 19	1,277	5,244	321,408
Electricity Metered (Kwh) consumed May 19	2,883,035	25,947,315	204,884,937