

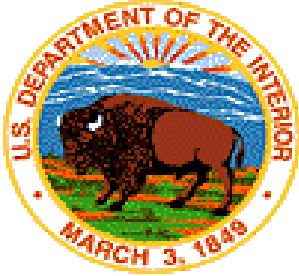
Bureau of Land Management

Amarillo Field Office

Helium Operations

Statistical Report

for



July - 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."

Approved for Distribution: Amanda L. Clark

Date: September 25, 2019

Table 1 - Summary of Helium Operations

July - 2019

Helium Enrichment Unit Operations

Gas Processed	Month Gross Volume	Month Net Helium	Average Percent	Gross FYTD	Net FYTD
Measured Plant Feed (Mcf*)	485,220	73,966	15.24%	485,220	73,966
Helium Product (Mcf*)	102,718	74,534	72.56%	102,718	74,534
Residue Natural Gas (Mcf*)	259,403	0	00.00%	259,403	0

* Volumes in Mcf at 14.65 psia & 60°F

Natural Gas & Liquids Produced

Gas Processed	Month	FYTD
Natural Gas Sales (Mcf***)	257,091	2,415,049
NGL Sales (gallons)	90,908	897,949

*** 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Total Withdrawn (Mcf*)	483,307	73,674	15.24%	483,307	73,674
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*)		2,853,997			

* Volumes in Mcf at 14.65 psia & 60°F

In Kind Helium

	Month	FYTD	CYTD	Cumulative
Sale Volumes Transferred (Mcf*)	0	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*)	10,815	7,839	72.48%	101227
Crude Disposed (Mcf*)	110,354	79,774	72.29%	802374
Net Balance (Mcf*)	(99,539)	(71,935)		(701,147)
Balance of Stored Helium End Of Month (Mcf*)		2,525,276		

* Volumes in Mcf at 14.65 psia & 60°F

Revenue / Charges

Helium Storage Contracts (Charges Billed (\$))	Month	FYTD
Storage Fees Billed (\$)	\$466,280	\$4,906,333
Resource Management Fees Billed (\$)	\$312,458	\$2,812,126
Total Storage and RMF Collected	\$778,738	\$7,718,460

Conservation Helium - Natural Gas - Liquid Sales

(Charges Billed (\$))	Month	FYTD
Conservation Crude Helium Sales	\$0	\$0
In Kind Sales	\$0	\$11,704,092
Natural Gas & Liquid Sales	\$254,176	\$3,730,508

Helium Resources Evaluation

	Month	FYTD
Revenue Collected from Federal Lease Holds	\$1,949,707	\$20,102,238
Helium Sample Collection Report for month	Submitted - 0	Received - 0
		Analyzed - 17

*Rounded to nearest dollar

Table 2 - Bush Dome Reservoir Operations

July - 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		483,307	243,496,405	73,674	45,078,460	119,406	60,029,108	257,185	123,737,755	28,134	12,583,281	4,908	2,067,801
BIVINS A-3	Jul-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	Jul-19	47,026	13,145,710	17,266	7,540,212	11,728	3,236,629	15,883	2,091,338	1,777	211,020	372	66,511
BIVINS A-13	Jul-19	33,952	9,727,982	10,269	4,863,911	8,504	2,491,927	13,371	2,081,620	1,546	232,127	261	58,396
BIVINS A-14	Jul-19	38,846	10,994,035	9,134	5,900,372	9,539	2,776,700	17,806	2,027,590	1,997	219,999	369	69,374
BIVINS A-4	Jul-19	30,997	14,795,935	2,940	2,532,693	7,380	3,582,711	18,320	7,761,379	1,995	784,624	362	134,529
BUSH A-2	Jul-19	3,910	14,068,844	168	2,022,381	974	3,455,310	2,458	7,682,378	285	792,650	26	116,125
Injection	Jul-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	Jul-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	Jul-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	Jul-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	Jul-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	Jul-19	0	(2,527,801)	0	(1,848,815)	0	(601,353)	0	(42,016)	#VALUE!	0	0	(35,617)
inj Bush A-2	Jul-19	0	(867,658)	0	(625,258)	0	(215,406)	0	(13,980)	0	0	0	(13,015)
Production	Jul-19	0	1,254,876	0	924,742	0	270,231	0	48,129	0	3,199	0	8,575
BIVINS A-1	Jul-19	0	2,686,608	0	48,896	0	636,995	0	1,798,415	0	175,704	0	26,597
BIVINS A-2	Jul-19	18,660	14,742,055	583	1,905,567	4,340	3,601,908	12,191	8,280,247	1,353	830,040	192	124,293
BIVINS A-5	Jul-19	24,929	17,020,068	4,372	2,224,231	6,293	4,182,078	12,624	9,505,996	1,432	961,123	209	146,640
BIVINS A-7	Jul-19	15,302	12,311,329	4,530	2,934,256	3,931	3,103,969	6,028	5,609,073	705	574,416	107	89,616
BIVINS A-9	Jul-19	28,098	11,561,815	818	228,186	7,140	2,854,366	17,972	7,599,581	1,925	774,738	242	104,945
BIVINS A-11	Jul-19	18,420	7,140,204	557	159,582	4,635	1,778,791	11,788	4,653,042	1,255	481,109	185	67,679
BIVINS A-15	Jul-19	33,345	11,087,061	564	452,379	7,729	2,633,968	22,383	7,162,372	2,253	720,812	416	117,530
BIVINS B-1	Jul-19	31,916	9,252,531	740	328,317	7,765	2,245,775	20,742	5,965,056	2,243	615,351	426	98,033
BIVINS B-2	Jul-19	28,118	7,724,131	524	145,507	7,096	1,936,230	18,099	5,010,837	1,878	519,315	521	112,243
BUSH A-1	Jul-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	Jul-19	28,171	13,211,956	8,790	3,218,855	7,038	3,272,713	10,847	5,994,419	1,246	610,820	250	115,150
BUSH A-4	Jul-19	22,581	9,426,713	1,739	1,648,041	5,742	2,362,331	13,447	4,851,239	1,517	498,498	135	66,604
BUSH A-5	Jul-19	41,982	18,165,810	9,953	4,216,936	10,613	4,565,447	18,979	8,396,168	2,176	862,245	261	125,015
BUSH A-8	Jul-19	16,138	4,936,328	295	90,469	3,995	1,199,014	10,492	3,251,652	1,073	330,180	283	65,014
BUSH A-9	Jul-19	0	3,860,915	0	105,037	0	930,915	0	2,537,187	0	253,463	0	34,312
BUSH A-11	Jul-19	16,264	5,057,592	350	143,739	3,878	1,210,046	10,644	3,307,344	1,149	337,014	243	59,448
BUSH B-1	Jul-19	4,651	3,483,055	81	65,189	1,085	825,927	3,109	2,327,150	329	230,652	47	34,138
FUQUA A-1	Jul-19	0	2,954,098	0	53,854	0	702,798	0	1,975,175	0	193,573	0	28,699
FUQUA A-2	Jul-19	0	132,119	0	2,404	0	31,322	0	88,458	0	8,637	0	1,297
FUQUA A-3	Jul-19	0	9,303,912	0	577,005	0	2,277,687	0	5,790,357	0	583,701	0	75,162
TT Fuel	Jul-19	0	0	0	0	0	0	0	0	0	0	0	0
field-wide pct's				15.24%	18.51%	24.71%	24.65%	53.21%	50.82%	5.82%	5.17%	1.02%	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 Jul-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	3.132	0.475
Injected to Date 2019	0.000	0.000
Amount of Raw Gas Available to CHEU	70.826	=====> 7.682 #VALUE!
Estimated Bottom Hole Pressure	260.909	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

July - 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	Jul-19	485,220	108,405,407	73,966	25,043,147	119,878	27,130,875	258,203	49,915,892	28,246	5,361,758	4,927	953,735
Calculated Feed	Jul-19	483,307	108,275,272	73,674	25,038,294	119,406	27,091,674	257,185	49,810,935	28,134	5,378,427	4,908	955,941
Feed to Box	Jul-19	479,079	107,560,249	73,674	25,038,473	119,406	27,091,757	257,185	49,810,981	28,134	5,378,421	679	240,617
Cheu Product	Jul-19	102,718	31,787,624	74,534	24,672,692	25,368	6,265,440	2,155	629,595	2	915	659	218,982
Residue	Jul-19	259,403	49,756,997	0	2,172	6,701	1,211,413	228,957	44,152,306	23,746	4,389,842	0	1,265
Cold Box Vent	Jul-19	72,549	17,728,400	36	90,874	63,429	15,727,146	9,069	1,848,660	0	121	15	61,599
Flare/Boot Strap	Jul-19	72,549	8,244,649	36	51,653	63,429	6,982,148	9,069	1,110,829	0	93,587	15	6,432
Fuel From Cheu	Jul-19	6,165	1,472,826	3	491	160	42,478	4,972	1,193,463	1,030	236,394	0	0
Shrinkage/Loss	Jul-19	3,356	559,634	0	0	0	0	0	0	3,356	559,634	0	0
Unaccounted*	Jul-19	34,888	4,080,936	(899)	168,290	23,748	3,014,647	12,032	892,966	(0)	1,098	6	3,934

*Before October 2004, the values are estimated

Storage Operations

Inventory (contained helium)

	Government	Private
Beginning inventory	2,855,656	2,597,211
net acceptances + redeliveries	0	0
In Kind Transfers	0	(71,935)
Conservation Crude Sales	0	0
Gain/loss	(1,659)	
Ending Inventory	2,853,997	2,525,276
Total Helium in Reservoir	7,681,892	
Total Helium in Storage	5,379,273	
Helium in native gas	2,302,619	

Crude Helium Pipeline

	Gross	Net Helium	Percent
Beginning inventory	27,437	19,748	71.98%
Measured to Pipeline (Private Plants)	10,815	7,839	72.48%
Measured from Pipeline (Private Plant)	110,354	79,774	72.29%
HEU Production	102,718	74,534	72.56%
Injection	0	0	00.00%
Production	0	0	
Ending Inventory	28,566	20,689	72.42%
Gain/Loss	(2,050)	(1,659)	

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

July - 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										
	0	0	0	0	0	0	0	\$0		
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							0	129,889	88,025	3,810,137
Volume outstanding							46,699			

* Volumes in Mcf at 14.7 psia & 70°F
 + Volumes in Mcf at 14.65 psia & 60°F

**Rounded to nearest dollar

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	257,091	---	282,901	1,100	\$0
FYTD	2,415,049	---	2,662,399	1,102	\$0
Cumulative	49,102,625	---	53,459,449	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	---	---	305,300	\$0.681260	\$207,989
FYTD	---	---	2,733,786	\$1.179492	\$3,224,478
Cumulative	---	---	53,350,325	\$4.126722	\$219,335,401
Sandstone					
Purchaser - Natural Gas Liquids					
Month	---	90,908	9,985	\$4.625652	\$46,187
FYTD	---	897,949	97,430	\$5.193778	\$506,030
Cumulative	---	15,272,521	1,627,594	\$10.479027	\$17,055,601
Total					
	Natural Gas (Mcf)***	NGLs (gal)	Purchased (Dth's)	\$\$ Per Unit (\$\$/Dth)	Total (\$)
Total month	257,091	90,908	315,285	\$0.806178	\$254,176
Total FYTD	2,415,049	897,949	2,831,216	\$1.317635	\$3,730,508
Total CYTD	1,390,629	526,439	1,618,018	\$0.844493	\$1,366,405
Cumulative	49,102,625	15,272,521	54,977,919	\$4.218954	\$231,122,764

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

**Rounded to nearest dollar

Table 5 - Conservation Crude Sales/Reserve Sell-down

July - 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

July - 2019

All Volumes in Mcf at 14.7 psia & 70°F

Revenue Collected From Federal Leaseholds	Month*	FYTD*
Fee Sales & Royalties	\$1,944,688	\$20,049,268
Natural Gas Royalties (1)	\$0	\$0
Natural Gas Rentals	\$0	\$0
Other	\$52,969	\$633,159
Revenue Collected from Federal Lease Holds	\$1,949,707	\$20,102,238

*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	181

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

July - 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	10,815	72.5%	7,839	101,227	75,169	27,441,391	6,458	61,075,675			
Crude Disposed	110,354	72.3%	79,774	802,374	546,589	54,657,052	6,458	26,821,707			\$466,280.17 Storage Fees
Grade-A Rdlvrd	0		0	0	0	1,478,718					\$312,457.68 RMF Fees
Net/Balance	(99,539)		(71,935)	(701,147)	(471,420)	(28,694,379)	0	34,253,968	2,525,276		\$778,737.85 \$7,718,460
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	2,855,656
Crude Disposed: In Kind Sales transferred for the month	0
Conservation Crude Sales/Reserve Sell Down transferred (t	0
Gains and Losses for the month	(1,659)
Net/Balance of Purchased Helium Remaining for Sale	2,853,997

*Includes In Kind and Conservation Crude transfers from Government storage

**Rounded to nearest dollar

** New Contracts

Table 8 - Compression & CHEU (Operations)

July - 2019

Field/CHEU Compressor Operations

		Month	FYTD	Cumulative
Spot gas fuel price *	\$ per/MMBTU	\$0.68	\$1.30	\$4.51
Fuel used * (now includes field compression well head)	total MMBTU	7,126	73,806	1,981,089
#1 Compressor run time *	hours	505	5,332	122,180
#2 Compressor run time *	hours	238	2,678	82,308
#3 Compressor run time *	hours	744	4,962	68,781

* Field/CHEU Compressor Operations based on Jul 19 activity

Crude Helium Enrichment Unit (CHEU)

CHEU Runtime	Month		FYTD		Cumulative
	Runtime Hrs	Percent	Runtime Hrs	Percent	Runtime Hrs
Processing feed gas	744	100.0%	7,022	96.2%	136,657
Producing residue gas	744	100.0%	6,873	94.2%	133,506
Producing helium product	744	100.0%	6,720	92.1%	129,676
Producing natural gas liquids	744	100.0%	6,829	93.6%	128,867

CHEU Utility Usage

	Month	FYTD	Cumulative
CheU Fuel Gas (Mcf) usage Jul 19	2,908	29,291	640,425
CheU Pure Water Usage (gallons) Jul 19	2,800	8,044	324,208
Electricity Metered (Kwh) consumed Jun 19	2,883,035	28,830,350	207,767,972