Bureau of Land Management



Amarillo Field Office Helium Operations Statistical Report for

March - 2021



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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Compiled by: David Reeves Amarillo, Texas Issued: May 2, 2022

"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:

May 2, 2022

Table 1 - Summary of Helium Operations

March - 2021

Helium Enrichment Unit Operations	Month	Month			
Gas Processed	Gross Volume	Net Helium	Average Percent	Gross FYTD	Net FYTD
Measured Plant Feed (Mcf*)	241,758	28,292	11.70%	2,233,061	279,243
Helium Product (Mcf*)	40,593	27,981	68.93%	413,021	287,119
Residue Natural Gas (Mcf*)	102,943	3	0.00%	997,420	19
* Volumes in Mcf at 14.65 psia & 60°F	· · · · · · · · · · · · · · · · · · ·		· · · · · ·		

Natural Gas & Liquids Produced

Gas Processed	Month	FYTD
Natural Gas Sales (Mcf***)	100,668	979,193
NGL Sales (gallons)	44,658	377,728

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

Bush Dome	Reservoir	Operations
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Bush Dome Reservoir Operations	Month	Month			
Conservation gases from all sources	Gross Volume	Net Helium	Average Percent	Gross FYTD	Net FYTD
Total Withdrawn <i>(Mcf*)</i>	238,191	25,424	10.67%	2,201,809	271,116
Crude Injection (Mcf*)	4,576	3,170	69.27%	80,974	56,258
Crude Production (<i>Mcf*</i>)	0	0	00.00%	588	392

Γ

* Volumes in Mcf at 14.65 psia & 60°F

Storage Operations

Sale Volumes Transferred (Mcf*) 8,292 108,106 59,695	Kind Helium	Month	FYTD	CYTD	Cumulative
	ale Volumes Transferred (Mcf*)	8,292	108,106	59,695	4,175,164
Sale Volumes Outstanding (Mcf*)(21,837)	ale Volumes Outstanding (Mcf*)	(21,837)			

Volumes in Mcf at 14.65 psia & 60°F

Private Company Helium Storage Contracts	Month	Month		Annual
Contact Activity	Gross Volume	Net Helium	Average Percent	Helium FYTD
Crude Acquired (Mcf*)	29,494	21,067	71.43%	93,442
Crude Disposed (Mcf*)	69,735	49,296	70.69%	290,279
Net Balance (Mcf*)	(40,241)	(28,229)		(196,837)
Balance of Stored Helium End Of Month (Mcf*)		2,160,082		
* Volumes in Mcf at 14.65 psia & 60°F				

Revenue / Charges

Helium Storage Contracts (Charges Billed (\$)	Month	FYTD
Storage Fees Billed (\$)	\$636,390	\$3,624,130
Resource Management Fees Billed (\$)	\$263,097	\$1,315,496
Total Storage and RMF Collected	\$899,487	\$4,939,626

Conservation Helium - Natural Gas - Liquid Sales	(Charges Billed (\$)	Month	FYTD
In Kind Sales		\$6,243,831	\$6,243,831
Natural Gas & Liquid Sales		\$308,100	\$7,093,479

Helium Resources Evaluation			Month	FYTD
Revenue Collected from Federal Lease Holds			\$2,171,941	\$11,914,139
Helium Sample Collection Report for month	Submitted - 0	Received - 0	Analyzed - 5	

Table 2 - Bush Dome Reservoir Operations

	1	Gross V	Vithdrawal	Net Helium	n Withdrawal	Nitr	ogen	Methane	Methane	Ethar	ne plus	Other (CO2, Ar, H2)	1 1
		Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative
TOTAL		238,191	251,081,932	25,424	46,105,402	70,505	61,925,775	127,970	127,897,951	12,331	13,007,218	1,961	2,145,587
BIVINS A-3	Mar-21	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	Mar-21	1,218	13,508,320	406	7,677,634	656	3,328,507	153	2,208,733	0	224,104	3	69,343
BIVINS A-13	Mar-21	19,456	10,292,522	2,152	5,019,537	16,156	2,651,077	1,060	2,301,940	(0)	257,284	88	62,685
BIVINS A-14	Mar-21	21,097	11,642,095	4,027	6,035,289	5,115	2,934,701	10,556	2,341,161	1,192	255,293	208	75,651
BIVINS A-4	Mar-21	16,306	15,310,395	1,453	2,578,984	3,936	3,705,866	9,901	8,070,217	934	815,026	82	140,302
BUSH A-2	Mar-21	4,923	14,177,519	199	2,026,943	1,221	3,482,508	3,093	7,751,095	378	800,130	33	116,844
Injection	Mar-21	4,576	66,746,479	3,170	48,210,160		17,195,233	111	786,385	0	45	27	554,658
inj Bivins A-3	Mar-21	0	(25,652,315)	0	(18,384,452)	0	(6,554,549)	0	(332,777)	0	0	0	(380,537)
inj Bivins A-6	Mar-21	(4,278)	(24,682,042)	(2,933)	(17,858,331)	(1,214)	(6,559,973)	(106)	(149,152)	(0)	(83)	(25)	(114,504)
inj Bivins A-13	Mar-21	(298)	(6,492,805)	(33)	(4,707,225)	(247)		(16)	(122,847)	0	(51)	(1)	(4,995)
inj Bivins A-14	Mar-21	0	(6,501,333)	0	(4,767,421)	0	(1,602,106)	0	(126,303)	0	(7)	0	(5,497)
inj Bivins A-4	Mar-21	0	(2,527,801)	0	(1,848,815)	0	(601,353)	0	(42,016)	0	0	0	(35,617)
inj Bush A-2	Mar-21	0	(867,658)	0	(625,258)	0	(215,406)	0	(13,980)	0	0	0	(13,015)
Production	Mar-21	0	1,257,144	0	926,242	0	270,854	0	48,257	0	3,205	0	8,588
BIVINS A-1	Mar-21	0	2,686,608	0	48,896	0	636,995	0	1,798,415	0	175,704	0	26,597
BIVINS A-2	Mar-21	11,299	15,069,521	354	1,915,694	2,799	3,680,977	7,865	8,502,417	269	844,281	12	126,153
BIVINS A-5	Mar-21	12,512	17,427,379	2,324	2,296,590	3,142	4,285,225	6,184	9,713,079	754	982,447	108	150,039
BIVINS A-7	Mar-21	7,896	12,565,706	2,366	3,010,996	1,998	3,169,621	3,031	5,709,158	439	584,580	62	91,351
BIVINS A-9	Mar-21	15,182	12,018,302	463	241,932	3,847	2,969,874	9,657	7,889,917	1,078	807,448	137	109,131
BIVINS A-11	Mar-21	9,818	7,448,266	295	168,763	2,439	1,855,703	6,275	4,849,898	704	502,975	105	70,927
BIVINS A-15	Mar-21	16,717	11,567,751	273	460,306	3,818	2,744,357	11,227	7,484,712	1,179	754,619	220	123,758
BIVINS B-1	Mar-21	17,011	9,774,628	405	340,293	4,403	2,374,090	11,780	6,308,038	398	645,456	26	106,750
BIVINS B-2	Mar-21	14,932	8,182,613	272	153,904	3,729	2,051,111	9,589	5,305,330	1,045	551,181	297	121,086
BUSH A-1	Mar-21	0	5,721,962	0	104,140	0	1,356,677	0	3,830,281	0	374,216	0	56,647
BUSH A-3	Mar-21	13,497	13,651,520	4,343	3,358,752	3,436	3,383,930	5,266	6,165,278	404	625,565	47	117,995
BUSH A-4	Mar-21	13,427	9,824,420	784	1,674,924	3,423	2,464,111	8,226	5,092,865	916	523,573	78	68,947
BUSH A-5	Mar-21	21,477	18,853,499	4,685	4,374,232	5,427	4,740,171	10,085	8,714,703	1,147	895,110	133	129,283
BUSH A-8	Mar-21	8,708	5,205,627	159	95,309	2,138	1,265,251	5,642	3,426,265	605	348,868	164	69,934
BUSH A-9	Mar-21	0	3,860,915	0	105,037	0	930,915	0	2,537,187	0	253,463	0	34,312
BUSH A-11	Mar-21	9,451	5,339,659	205	149,875	2,265	1,277,865	6,211	3,493,424	646	355,097	124	63,398
BUSH B-1	Mar-21	3,262	3,578,937	55	66,823	751	848,129	2,178	2,391,150	243	237,686	35	35,150
FUQUA A-1	Mar-21	0	2,954,098	0	53,854	0	702,798	0	1,975,175	0	193,573	0	28,699
FUQUA A-2	Mar-21	0	132,119	0	2,404	0	31,322	0	88,458	0	8,637	0	1,297
FUQUA A-3	Mar-21	0	9,303,912	0	577,005	0	2,277,687	0	5,790,357	0	583,701	0	75,162
TT Fuel	Mar-21	541	0	0	0	536	0	4	0	1	0	0	0
field-	wide pcts			10.67%	18.36%	29.60%	24.66%	53.73%	50.94%	5.18%	5.18%	0.82%	0.85%
					-	-01 0000							
Latest estimate	es of reser	ves and feed	to HEU		Based on NITI								
As of EOM	Mar-21	V	olumes in BCF		from NITEC's	interim repor	t						
Initial Gas In Pl				330.040									
Produced 1924				48.830									
Injected 1924 t	o 1961			0.450									
Remaining Gas		1961		281.660									
Loft Robind Din	0 1061			82.060	>	1 500	PCE of cont	ainad haliu	m				

est z-factor 0.980

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 - 20	117.747	27.641
Injection 2003 - 20	(1.660)	(1.325)
Produced to Date 2021	0.999	0.116
Injected to Date 2021	(0.035)	(0.024)
Amount of Raw Gas Available to CHEU	63.513 ====>	6.845 total helium in reservoir
Estimated Bottom Hole Pressure	234.002	

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

Table 3 - Gas Volumes & Inventory

March - 2021

Crude Helium Enrichment Unit Operations

	Gross V	Vithdrawal	Net Helium	Withdrawal	Nitr	Nitrogen		Methane		Ethane plus		Other (CO2, Ar, H2)	
	Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative	
Mar-21	241,758	116,006,774	28,292	26,077,495	64,451	29,019,655	132,607	54,080,723	14,070	5,797,030	2,338	1,031,871	
Mar-21	239,303	115,945,330	26,360	26,128,168	70,625	29,010,011	128,018	53,971,066	12,330	5,802,083	1,970	1,034,000	
Mar-21	237,632	115,162,296	26,360	26,128,347	70,625	29,010,093	128,018	53,971,112	12,330	5,802,078	299	250,666	
Mar-21	40,593	33,261,237	27,981	25,716,781	11,366	6,651,781	1,000	663,535	1	954	245	228,187	
Mar-21	102,943	53,143,327	3	2,277	3,552	1,301,923	89,973	47,137,463	9,415	4,700,399	0	1,265	
Mar-21	33,727	18,835,942	555	94,114	27,500	16,667,696	5,658	2,011,924	2	336	11	61,872	
Mar-21	6,284	8,821,525	107	62,731	1,862	7,333,579	3,922	1,309,035	392	109,552	1	6,628	
Mar-21	3,157	1,591,972	2	551	82	45,564	2,546	1,289,554	528	256,303	0	0	
Mar-21	1,994	631,554	0	0	0	0	0	0	1,994	631,554	0	0	
Mar-21	48,934	5,186,551	(2,288)	197,369	26,263	3,411,537	24,919	1,572,380	(2)	884	42	4,381	
	Mar-21 Mar-21 Mar-21 Mar-21 Mar-21 Mar-21 Mar-21	Month Mar-21 241,758 Mar-21 239,303 Mar-21 237,632 Mar-21 40,593 Mar-21 102,943 Mar-21 33,727 Mar-21 6,284 Mar-21 3,157 Mar-21 1,994	Mar-21 241,758 116,006,774 Mar-21 239,303 115,945,330 Mar-21 237,632 115,162,296 Mar-21 40,593 33,261,237 Mar-21 102,943 53,143,327 Mar-21 33,727 18,835,942 Mar-21 6,284 8,821,525 Mar-21 3,157 1,591,972 Mar-21 1,994 631,554	Month Cumulative Month Mar-21 241,758 116,006,774 28,292 Mar-21 239,303 115,945,330 26,360 Mar-21 237,632 115,162,296 26,360 Mar-21 40,593 33,261,237 27,981 Mar-21 102,943 53,143,327 3 Mar-21 33,727 18,835,942 5555 Mar-21 6,284 8,821,525 107 Mar-21 3,157 1,591,972 2 Mar-21 1,994 631,554 0	Month Cumulative Month Cumulative Mar-21 241,758 116,006,774 28,292 26,077,495 Mar-21 239,303 115,945,330 26,360 26,128,168 Mar-21 237,632 115,162,296 26,360 26,128,347 Mar-21 40,593 33,261,237 27,981 25,716,781 Mar-21 102,943 53,143,327 3 2,277 Mar-21 33,727 18,835,942 555 94,114 Mar-21 6,284 8,821,525 107 62,731 Mar-21 3,157 1,591,972 2 551 Mar-21 1,994 631,554 0 0	Month Cumulative Month Cumulative Month Mar-21 241,758 116,006,774 28,292 26,077,495 64,451 Mar-21 239,303 115,945,330 26,360 26,128,168 70,625 Mar-21 237,632 115,162,296 26,360 26,128,347 70,625 Mar-21 40,593 33,261,237 27,981 25,716,781 11,366 Mar-21 102,943 53,143,327 3 2,277 3,552 Mar-21 33,727 18,835,942 555 94,114 27,500 Mar-21 6,284 8,821,525 107 62,731 1,862 Mar-21 3,157 1,591,972 2 551 82 Mar-21 1,994 631,554 0 0 0	Month Cumulative Month Cumulative Month Cumulative Mar-21 241,758 116,006,774 28,292 26,077,495 64,451 29,019,655 Mar-21 239,303 115,945,330 26,360 26,128,168 70,625 29,010,093 Mar-21 237,632 115,162,296 26,360 26,128,347 70,625 29,010,093 Mar-21 40,593 33,261,237 27,981 25,716,781 11,366 6,651,781 Mar-21 102,943 53,143,327 3 2,277 3,552 1,301,923 Mar-21 33,727 18,835,942 555 94,114 27,500 16,667,696 Mar-21 6,284 8,821,525 107 62,731 1,862 7,333,579 Mar-21 3,157 1,591,972 2 551 82 45,564 Mar-21 1,994 631,554 0 0 0 0 0	Month Cumulative Month Cumulative Month Cumulative Month Cumulative Month Month Cumulative Month Month Cumulative Month Month Month Cumulative Month Month Mar-21 241,758 116,006,774 28,292 26,077,495 64,451 29,019,655 132,607 Mar-21 239,303 115,945,330 26,360 26,128,168 70,625 29,010,011 128,018 Mar-21 237,632 115,162,296 26,360 26,128,347 70,625 29,010,093 128,018 Mar-21 40,593 33,261,237 27,981 25,716,781 11,366 6,651,781 1,000 Mar-21 102,943 53,143,327 3 2,277 3,552 1,301,923 89,973 Mar-21 33,727 18,835,942 555 94,114 27,500 16,667,696 5,658 Mar-21 6,284 8,821,525 107 62,731 1,862 7,333,579 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*Before October 2004, the values are estimated

Storage Operations

Inventory (contained	helium)	
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	Government	Private
Beginning inventory	2,377,672	2,180,019
net acceptances +	0	0
redeliveries	0	(28,229)
In Kind Transfers	(8,292)	8,292
Conservation Crude Sales	0	0
Gain/loss	(3,250)	0
Ending Inventory	2,366,130	2,160,082
Total Helium in Reservoir	6,845,322	
Total Helium in Storage	4,526,212	
Helium in native gas	2,319,110	

Crude Helium Pipeline

1

	Gross	Net Helium	Percent
Beginning inventory	43,085	29,531	68.54%
Measured to Pipeline (Private Plants)	29,494	21,076	71.46%
Measured from Pipeline (Private Plants	69,735	49,399	70.84%
HEU Production	40,593	27,981	68.93%
Injection	4,576	3,170	69.27%
Production	0	0	
Ending Inventory	32,336	22,769	70.42%
Gain/Loss	(6,526)	(3,250)	49.81%

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

March - 2021

N	IASA*	Navy*	Army*	Air Force*	DOE*	Other Fed*	Subtotal*	In Kind+	Charges Billed (\$)**

	L		h	n Kind H	elium				•	(billed quarterly)
Airgas Merchant G Month FYTD	ases, Contra	ct no.								
Air Liquide Helium Month FYTD	America, Inc	., Contract n	o. INC22-0)104						
Air Products, L.P., Month FYTD	Contract no.	INC22-0105								
Messer, LLC, Cont Month FYTD	tract no. INC2	2-0106								
Linde, Contract no Month FYTD). INC22-0112									
Matheson Tri-Gas, Month FYTD	, Inc., Contrac	t no. INC22-	0114							
Global Gases Ame Month FYTD	erica, Contrac	t no. INC22-(0116							
Total month	41,628	26	7	1	0	22,402	64,063	63,069		\$6,243,831
Total FYTD	41,628	26	7	1	0	22,402	64,063	63,069		\$6,243,831
Total CYTD	41,628	26	7	1	0	22,402	64,063	63,069		\$6,243,831
Cumulative	2,266,536	108,950	462	271,595	422,045	1,148,990	4,218,578	4,153,252		\$264,783,503
In Kind Trans Transferred Volume outstanding	fers						Month 8,292 (21,837)	FYTD 108,106	CYTD 59,695	Cumulative 4,175,164

* Volumes in Mcf at 14.7 psia & 70°F

+ 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	<chk data=""></chk>	Provides Measure	ed Firm/Interruptible Trai	nsportation Services		(billed monthly)				
Month	100,668		110,821	1,101	\$0					
FYTD	979,193		1,077,753	1,101	\$0					
Cumulative	52,442,352		57,136,543	1,090	(\$5,088,325)					
Minerals Manageme	ent Service	No Longer Provides Nat	tural Gas Marketing Ser	vices	-					
Cumulative					(\$179,913)					
ETC Marketing Ltd		Purchaser - Natural Gas	3	\$\$/Unit						
Month			117,100	\$2.303057	\$269,688					
FYTD			1,120,100	\$6.132313	\$6,868,803					
Cumulative			57,141,959	\$4.025752	\$229,212,786					
Sandstone		Purchaser - Natural Gas	s Liquids							
Month		44,658	4,827	\$7.957664	\$38,412					
FYTD		377,728	40,775	\$5.510127	\$224,675					
Cumulative		16,587,362	1,769,940	\$9.959853	\$17,628,342					
	Natural Gas (Mcf)***	NGLs (gal)	Purchased (Dth's)	\$\$ Per Unit (\$\$/Dth)		Total (\$\$)				
Total month	100,668	44,658	121,927	\$2.526919		\$308,100				
Total FYTD	979,193	377,728	1,160,875	\$6.110459		\$7,093,479				
Total CYTD	436,938	168,710	526,783	\$10.896599		\$5,740,143				
Cumulative	52,442,352	16,587,362	58,911,899	\$4.114609		\$241,572,890				

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

**Rounded to nearest dollar

**Rounded to nearest dollar

This Table has been suspended as of 9/30/2018, BLM is no longer selling crude helium on the Open Market per Helium Stewardship Act of 2013.

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	\$2,055,787	\$11,788,641
Natural Gas Royalties (1)	\$0	\$0
Natural Gas Rentals	\$0	\$0
Other	<u>\$125,498</u>	<u>\$380,603</u>
Revenue Collected from Federal Lease Holds	\$2,171,941	\$11,914,139

*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	0
Total Number of Samples Analyzed For Resources Division	0	0
Total Number of Other Samples Analyzed (2)	5	68

U. S. Helium Production

Domestic		CY Volume
2016 Helium Sold		3,294,447
2017 Helium Sold		3,703,527
2018 Helium Sold		3,529,583
2019 Helium Sold		3,229,482
2020 Helium Sold		2,972,672
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

March - 2021

All Volumes	s in Mcf at 1	4.65 psia	& 60°F								
				ed Gas			Transferre	Transferred Gas		Stored Charges Billed	
	Gross Gas		Helium		Helium		Heliu		Helium	(\$)**
		Month		FYTD	CYTD	Cumulative	Month	Cumulative	EOM	Month	FYTD
Total All Contra	acts*										
Crude Acquired	29,494	71.4%	21,067	93,442	46,145	27,707,482	31,738	61,939,515			
Crude Disposed	69,735	70.7%	49,296	290,279	135,851	55,653,364	23,446	27,179,227		\$636,389.80	Storage Fees
Grade-A Rdlvrd	0		0	0	0	1,478,718				<u>\$263,096.71</u>	RMF Fees
Net/Balance	(40,241)		(28,229)	(196,837)	(89,706)) (29,424,600)	8,292	34,760,288	2,160,082	\$899,486.51	\$4,939,626
Total Prior Con	tracts (TERI	MINATED)									
Crude Acquired				0	0	17,406,129	0	18,235,232			
Crude Disposed				0	0	11,830,863	0	19,187,102			
Grade-A Rdlvrd				0	0	1,478,718					
Number of trailers				0	0	9,834			0		
Messer, LLC, C	ontract no.	3249									
Crude Acquired											
Crude Disposed											
Net/Balance											
Linde, Contract	t no. 3251										
Crude Acquired											
Crude Disposed											
Net/Balance											
Air Products, L	.P., Contrac	t no. 3256									
Crude Acquired											
Crude Disposed											
Net/Balance											
Air Liquide Heli	ium America	i, Inc., Cont	ract no. 32	284							
Crude Acquired											
Crude Disposed											
Net/Balance											
Keyes Helium (Co., LLC, Co	ntract no. 3	3287								
Crude Acquired											
Crude Disposed											
Net/Balance											
Matheson Tri-G	as, Inc., Co	ntract no. 3	288								
Crude Acquired											
Crude Disposed											
Net/Balance											
Airgas Merchar	nt Gases, Co	ontract no.	3290								
Crude Acquired	,										
Crude Disposed											
Net/Balance											
Global Gases A	merica, Cor	ntract no. 3	293								
Crude Acquired											
Crude Disposed											
Net/Balance)	ataast	20.4								
Scout Energy P	artners, Co	ntract no. 3	294							1	
Crude Acquired											
Crude Disposed										1	
Net/Balance										L	
IACX Energy, C	ontract no.	3297									
Crude Acquired											
Crude Disposed											
Net/Balance	-			-							
Uniper Global (Commodities	s North Am	erica LLC,	Contract n	o. 3298					l	
Crude Acquired										1	
Crude Disposed											
Net/Balance											

Government Helium		
Remaining Crude Acquired beginning of the month		2,377,672
Crude Disposed: In Kind S	Sales transferred for the month	(8,292)
Conserv	ration Crude Sales/Reserve Sell Down transferred (month)	0
Gains ar	d Loses for the month	<u>(3.250)</u>
Net/Balance of Purchased Helium Remaining for Sale		2,366,130

*Includes In Kind and Conservation Crude transfers from Government storage

** New Contracts

Table 8 - Compression & CHEU (Operations)

Field/CHEU Compressor Operations		Month	FYTD	Cumulative
Spot gas fuel price *	\$ per/MMBTU	\$2.30		
Fuel used * (now includes field compression well head)	total MMBTU	3,284	44,141	2,126,539
#1 Compressor run time *	hours	0	1,157	126,470
#2 Compressor run time *	hours	316	3,663	93,811
#3 Compressor run time *	hours	277	2,167	77,095

* Field/CHEU Compressor Operations based on Mar 21 activity

Crude Helium Enrichment Unit (CHEU)	Month		FYTD		Cumulative
CHEU Runtime	Runtime Hrs	Percent	Runtime Hrs	Percent	Runtime Hrs
Processing feed gas	412	55.4%	3,885	88.9%	149,309
Producing residue gas	393	52.8%	3,730	85.4%	145,896
Producing helium product	369	49.5%	3,601	82.4%	141,648
Producing natural gas liquids	367	49.4%	3,551	81.3%	141,020

CHEU Utility Usage		FYTD	Cumulative
Cheu Fuel Gas (Mcf) usage Mar 21	1,491	16,896	720,123
Cheu Pure Water Usage (gallons) Mar 21	294	6,334	336,524
Electricity Metered (Kwh) CHEU consumed Feb 21	2,615,332	16,171,611	257,199,420

Booster Compressor Operations and Usage		FYTD	Cumulative
Electricity Metered (Kwh) Booster Compressor consumed Feb 21	577,940	4,009,405	9,149,485