

# Bureau of Land Management

Amarillo Field Office

Helium Operations

Statistical Report

for

November - 2020



#### *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: March 4, 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:

*March 4, 2022*

## Table 1 - Summary of Helium Operations

## November - 2020

### Helium Enrichment Unit Operations

Gas Processed	Month	Month	Average Percent	Gross FYTD	Net FYTD
	Gross Volume	Net Helium			
Measured Plant Feed (Mcf*)	436,937	57,123	13.07%	874,034	112,214
Helium Product (Mcf*)	82,616	58,629	70.97%	161,753	114,248
Residue Natural Gas (Mcf*)	241,638	0	00.00%	456,585	0

\* Volumes in Mcf at 14.65 psia & 60°F

### Natural Gas & Liquids Produced

Gas Processed	Month	FYTD
Natural Gas Sales (Mcf****)	237,717	449,188
NGL Sales (gallons)	89,205	156,942

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

### Bush Dome Reservoir Operations

Conservation gases from all sources	Month	Month	Average Percent	Gross FYTD	Net FYTD
	Gross Volume	Net Helium			
Total Withdrawn (Mcf*)	431,504	56,114	13.00%	862,957	110,251
Crude Injection (Mcf*)	17,674	12,335	69.79%	26,326	18,437
Crude Production (Mcf*)	0	0	00.00%	0	0

\* Volumes in Mcf at 14.65 psia & 60°F

### Storage Operations

In Kind Helium	Month	FYTD	CYTD	Cumulative
Sale Volumes Transferred (Mcf*)	32,497	39,919	205,764	4,106,977
Sale Volumes Outstanding (Mcf*)	(16,719)			

\* Volumes in Mcf at 14.65 psia & 60°F

### Private Company Helium Storage Contracts

Contact Activity	Month	Month	Average Percent	Annual
	Gross Volume	Net Helium		Helium FYTD
Crude Acquired (Mcf*)	21,379	15,088	70.57%	34,478
Crude Disposed (Mcf*)	63,044	44,783	71.03%	115,155
Net Balance (Mcf*)	(41,665)	(29,695)		(80,677)
Balance of Stored Helium End Of Month (Mcf*)		2,208,055		

\* Volumes in Mcf at 14.65 psia & 60°F

### Revenue / Charges

Helium Storage Contracts (Charges Billed (\$))	Month	FYTD
Storage Fees Billed (\$)	\$608,377	\$1,177,298
Resource Management Fees Billed (\$)	\$263,109	\$263,109
Total Storage and RMF Collected	\$871,486	\$1,440,407

### Conservation Helium - Natural Gas - Liquid Sales (Charges Billed (\$))

	Month	FYTD
In Kind Sales	\$0	\$0
Natural Gas & Liquid Sales	\$599,562	\$1,066,984

### Helium Resources Evaluation

	Month	FYTD
Revenue Collected from Federal Lease Holds	\$1,914,782	\$4,000,304
Helium Sample Collection Report for month	Submitted - 0	Received - 0
		Analyzed - 9

\*Rounded to nearest dollar

Table 2 - Bush Dome Reservoir Operations

November - 2020

		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	
<b>TOTAL</b>		<b>431,504</b>	<b>249,743,079</b>	<b>56,114</b>	<b>45,944,537</b>	<b>106,936</b>	<b>61,575,873</b>	<b>239,567</b>	<b>127,156,990</b>	<b>24,704</b>	<b>12,934,278</b>	<b>4,184</b>	<b>2,131,402</b>
BIVINS A-3	Nov-20	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	Nov-20	5,343	13,493,843	3,764	7,668,767	1,432	3,323,643	114	2,208,063	0	224,103	33	69,267
BIVINS A-13	Nov-20	36,168	10,183,430	9,706	4,996,768	9,040	2,606,066	15,374	2,265,321	1,770	253,392	278	61,882
BIVINS A-14	Nov-20	40,221	11,523,737	7,716	6,012,571	9,777	2,905,963	20,079	2,282,068	2,256	248,644	393	74,491
BIVINS A-4	Nov-20	30,767	15,218,123	2,693	2,570,859	7,323	3,683,801	18,425	8,014,695	1,970	809,310	357	139,458
BUSH A-2	Nov-20	6,451	14,154,160	267	2,026,000	1,613	3,476,735	4,081	7,736,478	451	798,279	39	116,669
Injection	Nov-20	17,674	66,691,832	12,335	48,172,339	4,837	17,180,010	394	785,113	0	44	108	554,327
inj Bivins A-3	Nov-20	0	(25,652,315)	0	(18,384,452)	0	(6,554,549)	0	(332,777)	0	0	0	(380,537)
inj Bivins A-6	Nov-20	(17,674)	(24,627,861)	(12,336)	(17,820,931)	(4,837)	(6,544,784)	(393)	(147,889)	(0)	(81)	(108)	(114,176)
inj Bivins A-13	Nov-20	0	(6,492,339)	0	(4,707,153)	0	(1,657,381)	0	(122,769)	0	(44)	0	(4,992)
inj Bivins A-14	Nov-20	0	(6,501,333)	0	(4,767,421)	0	(1,602,106)	0	(126,303)	0	(7)	0	(5,497)
inj Bivins A-4	Nov-20	0	(2,527,801)	0	(1,848,815)	0	(601,353)	0	(42,016)	0	0	0	(35,617)
inj Bush A-2	Nov-20	0	(867,658)	0	(625,258)	0	(215,406)	0	(13,980)	0	0	0	(13,015)
Production	Nov-20	0	1,256,556	0	925,850	0	270,686	0	48,231	0	3,205	0	8,584
BIVINS A-1	Nov-20	0	2,686,608	0	48,896	0	636,995	0	1,798,415	0	175,704	0	26,597
BIVINS A-2	Nov-20	20,789	15,005,167	651	1,913,679	5,149	3,665,036	14,471	8,457,620	495	842,749	23	126,083
BIVINS A-5	Nov-20	24,228	17,357,488	4,390	2,283,724	6,124	4,267,612	12,186	9,678,270	1,331	978,431	197	149,450
BIVINS A-7	Nov-20	15,362	12,520,692	4,644	2,997,422	3,967	3,158,114	6,047	5,691,673	608	582,453	97	91,029
BIVINS A-9	Nov-20	27,564	11,935,294	841	239,401	6,985	2,948,840	17,533	7,837,116	1,957	801,554	248	108,384
BIVINS A-11	Nov-20	18,464	7,393,124	552	167,116	4,601	1,842,005	11,796	4,814,635	1,319	499,026	196	70,343
BIVINS A-15	Nov-20	21,466	11,478,550	352	458,853	4,920	2,723,975	14,406	7,424,795	1,508	748,333	280	122,594
BIVINS B-1	Nov-20	30,833	9,679,162	697	338,108	7,498	2,350,283	20,041	6,244,358	2,118	642,398	478	104,015
BIVINS B-2	Nov-20	27,113	8,098,699	496	152,378	6,789	2,030,158	17,403	5,251,421	1,889	545,314	536	119,428
BUSH A-1	Nov-20	0	5,721,962	0	104,140	0	1,356,677	0	3,830,281	0	374,216	0	56,647
BUSH A-3	Nov-20	24,960	13,571,324	8,032	3,332,945	6,355	3,363,512	9,739	6,133,986	746	623,167	87	117,715
BUSH A-4	Nov-20	23,613	9,750,345	1,473	1,670,485	6,038	2,445,245	14,441	5,047,616	1,530	518,488	130	68,511
BUSH A-5	Nov-20	41,271	18,731,721	9,123	4,347,496	10,432	4,709,341	19,271	8,657,554	2,188	888,801	257	128,530
BUSH A-8	Nov-20	15,369	5,156,786	276	94,434	3,778	1,253,277	9,963	3,394,579	1,065	345,475	287	69,022
BUSH A-9	Nov-20	0	3,860,915	0	105,037	0	930,915	0	2,537,187	0	253,463	0	34,312
BUSH A-11	Nov-20	16,537	5,287,689	359	148,747	3,962	1,265,413	10,868	3,459,269	1,131	351,542	217	62,717
BUSH B-1	Nov-20	4,986	3,560,494	85	66,512	1,152	843,881	3,327	2,378,834	369	236,313	53	34,954
FUQUA A-1	Nov-20	0	2,954,098	0	53,854	0	702,798	0	1,975,175	0	193,573	0	28,699
FUQUA A-2	Nov-20	0	132,119	0	2,404	0	31,322	0	88,458	0	8,637	0	1,297
FUQUA A-3	Nov-20	0	9,303,912	0	577,005	0	2,277,687	0	5,790,357	0	583,701	0	75,162
TT Fuel	Nov-20	0	0	0	0	0	0	0	0	0	0	0	0
field-wide pct's				13.00%	18.40%	24.78%	24.66%	55.52%	50.92%	5.73%	5.18%	0.97%	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 Nov-20 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 - 19	113.305	27.048
Injection 2003 - 19	(1.423)	(1.159)
Produced to Date 2020	4.102	0.548
Injected to Date 2020	(0.217)	(0.153)
Amount of Raw Gas Available to CHEU	64.797	=====> 6.968 total helium in reservoir
Estimated Bottom Hole Pressure	238.727	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

November - 2020

#### 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	Nov-20	436,937	114,647,748	57,123	25,910,466	107,749	28,674,924	241,330	53,326,596	26,243	5,717,802	4,493	1,017,959
Calculated Feed	Nov-20	437,118	114,589,929	60,032	25,954,781	108,473	28,657,001	239,691	53,229,303	24,704	5,729,138	4,218	1,019,705
Feed to Box	Nov-20	433,432	113,819,558	60,032	25,954,960	108,473	28,657,084	239,691	53,229,349	24,704	5,729,132	532	249,034
Cheu Product	Nov-20	82,616	33,009,970	58,629	25,543,910	21,657	6,581,444	1,823	656,989	2	948	505	226,679
Residue	Nov-20	241,638	52,602,492	0	2,258	6,375	1,286,405	213,090	46,662,216	22,173	4,650,348	0	1,265
Cold Box Vent	Nov-20	64,823	18,649,726	33	93,252	55,353	16,513,500	9,425	1,980,828	0	319	13	61,827
Flare/Boot Strap	Nov-20	0	8,715,374	0	61,080	0	7,305,269	0	1,239,654	0	102,761	0	6,610
Fuel From Cheu	Nov-20	7,860	1,571,847	4	541	204	45,043	6,339	1,273,323	1,313	252,940	0	0
Shrinkage/Loss	Nov-20	1,216	618,819	0	0	0	0	0	0	1,216	618,819	0	0
Unaccounted*	Nov-20	35,279	4,961,144	1,366	199,395	24,884	3,327,411	9,014	1,429,117	(0)	901	15	4,320

\*Before October 2004, the values are estimated

#### Storage Operations

##### Inventory (contained helium)

	Government	Private
Beginning inventory	2,500,382	2,205,253
net acceptances + redeliveries	0	0
In Kind Transfers	(32,497)	32,497
Conservation Crude Sales	0	0
Gain/loss	(6,627)	0
Ending Inventory	2,461,257	2,208,055
Total Helium in Reservoir	6,968,366	
Total Helium in Storage	4,669,312	
Helium in native gas	2,299,054	

##### Crude Helium Pipeline

	Gross	Net Helium	Percent
Beginning inventory	28,924	20,559	71.08%
Measured to Pipeline (Private Plants)	21,379	15,104	70.65%
Measured from Pipeline (Private Plant:	63,044	44,783	71.03%
HEU Production	82,616	58,629	70.97%
Injection	17,674	12,335	69.79%
Production	0	0	
Ending Inventory	43,052	30,546	70.95%
Gain/Loss	(9,148)	(6,627)	72.44%

#### Tuck Triqq Reservoir Operations

Native Gas (Gross)	Month	Since Field	
		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

November - 2020

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

(billed quarterly)

<b>Airgas Merchant Gases, Contract no. INC18-0102</b>											
Month											
FYTD											
<b>Air Liquide Helium America, Inc., Contract no. INC18-0104</b>											
Month											
FYTD											
<b>Air Products, L.P., Contract no. INC18-0105</b>											
Month											
FYTD											
<b>Messer, LLC, Contract no. INC18-0106</b>											
Month											
FYTD											
<b>Praxair, Inc., Contract no. INC18-0112</b>											
Month											
FYTD											
<b>Matheson Tri-Gas, Inc., Contract no. INC18-0114</b>											
Month											
FYTD											
<b>Global Gases America, Contract no. INC18-0116</b>											
Month											
FYTD											
<b>Total month</b>	0	0	0	0	0	0	0	0	\$0		
<b>Total FYTD</b>	0	0	0	0	0	0	0	0	\$0		
<b>Total CYTD</b>	71,548	54	5	2	0	70,650	142,260	140,057	\$13,585,335		
<b>Cumulative</b>	2,224,908	108,924	455	271,594	422,045	1,126,588	4,154,514	4,090,183	\$258,539,672		
<b>In Kind Transfers</b>								Month	FYTD	CYTD	Cumulative
Transferred								32,497	39,919	205,764	4,106,977
Volume outstanding								(16,719)			

\* 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 (\$)**
<b>EI Paso Natural Gas</b>	<Chk Data>	Provides Measured Firm/Interruptible Transportation Services			(billed monthly)
Month	237,717	---	261,501	1,100	\$0
FYTD	449,188	---	493,758	1,099	\$0
Cumulative	51,912,347	---	56,552,548	1,089	(\$5,088,325)
<b>Minerals Management Service</b>	No Longer Provides Natural Gas Marketing Services				
Cumulative	---	---	---	---	(\$179,913)
<b>ETC Marketing Ltd</b>		Purchaser - Natural Gas		\$\$/Unit	
Month	---	---	260,200	\$2.161264	\$562,361
FYTD	---	---	497,700	\$2.014153	\$1,002,444
Cumulative	---	---	56,519,559	\$3.966290	\$223,346,426
<b>Sandstone</b>		Purchaser - Natural Gas Liquids			
Month	---	89,205	9,641	\$3.858600	\$37,201
FYTD	---	156,942	16,976	\$3.801824	\$64,540
Cumulative	---	16,366,576	1,746,141	\$10.003892	\$17,468,207
	Natural Gas (Mcf)***	NGLs (gal)	Purchased (Dth's)	\$\$ Per Unit (\$\$/Dth)	Total (\$\$)
<b>Total month</b>	237,717	89,205	269,841	\$2.221908	\$599,562
<b>Total FYTD</b>	449,188	156,942	514,676	\$2.073117	\$1,066,984
<b>Total CYTD</b>	1,943,939	717,472	2,284,805	\$1.296761	\$2,962,846
<b>Cumulative</b>	51,912,347	16,366,576	58,265,700	\$4.056811	\$235,546,394

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

\*\*Rounded to nearest dollar

Table 5 - Conservation Crude Sales/Reserve Sell-down  
**Helium & Natural Gas Sales**

November - 2020

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

November - 2020

All Volumes in Mcf at 14.7 psia & 70°F

<b>Revenue Collected From Federal Leaseholds</b>	Month*	FYTD*
Fee Sales & Royalties	\$1,904,511	\$3,945,070
Natural Gas Royalties (1)	\$0	\$0
Natural Gas Rentals	\$0	\$0
Other	\$55,235	\$100,198
Revenue Collected from Federal Lease Holds	\$1,914,782	\$4,000,304

\*Totals do not sum

<b>Helium Analysis and Evaluation</b>	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)	9	24

### U. S. Helium Production

<i>Domestic</i>			CY Volume
2013 Helium Sold			4,623,130
2014 Helium Sold			4,166,708
2015 Helium Sold			3,463,698
2016 Helium Sold			3,466,014
2017 Helium Sold			4,644,278
Estimated Helium Resources as of 12/31/2016 (Mcf)			723,000,000

	FY-2017	CY-2017
<b>U.S. Helium Exports</b> (3)	2,520,645	2,451,207
<b>US Helium Imports</b>	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

November - 2020

All Volumes in Mcf at 14.65 psia & 60°F

	Metered Gas						Transferred Gas		Stored Helium EOM	Charges Billed (\$)**	
	Gross Gas	Helium %	Helium	Helium	Helium	Helium	Month	Cumulative		Month	FYTD
	Month	Month	FYTD	CYTD	Cumulative	Month	Cumulative				
<b>Total All Contracts*</b>											
Crude Acquired	21,379	70.6%	15,088	34,478	167,577	27,648,518	36,517	61,740,149			
Crude Disposed	63,044	71.0%	44,783	115,155	481,082	55,478,240	4,020	27,089,195		\$608,377.10	Storage Fees
Grade-A Rdlvrd	0		0	0	0	1,478,718				<u>\$263,108.86</u>	RMF Fees
Net/Balance	(41,665)		(29,695)	(80,677)	(313,505)	(29,308,440)	32,497	34,650,954	2,208,055	\$871,485.96	\$1,440,407
<b>Total Prior Contracts (TERMINATED)</b>											
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		
<b>Messer, LLC, Contract no. 3249</b>											
Crude Acquired											
Crude Disposed											
Net/Balance											
<b>Praxair, Inc., Contract no. 3251</b>											
Crude Acquired											
Crude Disposed											
Net/Balance											
<b>Air Products, L.P., Contract no. 3256</b>											
Crude Acquired											
Crude Disposed											
Net/Balance											
<b>Air Liquide Helium America, Inc., Contract no. 3284</b>											
Crude Acquired											
Crude Disposed											
Net/Balance											
<b>Keyes Helium Co., LLC, Contract no. 3287</b>											
Crude Acquired											
Crude Disposed											
Net/Balance											
<b>Matheson Tri-Gas, Inc., Contract no. 3288</b>											
Crude Acquired											
Crude Disposed											
Net/Balance											
<b>Airgas Merchant Gases, Contract no. 3290</b>											
Crude Acquired											
Crude Disposed											
Net/Balance											
<b>Global Gases America, Contract no. 3293</b>											
Crude Acquired											
Crude Disposed											
Net/Balance											
<b>Scout Energy Partners, Contract no. 3294</b>											
Crude Acquired											
Crude Disposed											
Net/Balance											
<b>IACX Energy, Contract no. 3297</b>											
Crude Acquired											
Crude Disposed											
Net/Balance											
<b>Uniper Global Commodities North America LLC, Contract no. 3298</b>											
Crude Acquired											
Crude Disposed											
Net/Balance											

<b>Government Helium</b>	
Remaining Crude Acquired beginning of the month	2,500,382
Crude Disposed: In Kind Sales transferred for the month	(32,497)
Conservation Crude Sales/Reserve Sell Down transferred (month)	0
Gains and Losses for the month	(6,627)
Net/Balance of Purchased Helium Remaining for Sale	2,461,257

\*Includes In Kind and Conservation Crude transfers from Government storage

\*\*Rounded to nearest dollar

\*\* New Contracts



# Table 8 - Compression & CHEU (Operations)

November - 2020

<b>Field/CHEU Compressor Operations</b>		Month	FYTD	Cumulative
Spot gas fuel price *	\$ per/MMBTU	\$2.16		
Fuel used * (now includes field compression well head)	total MMBTU	9,086	18,120	2,100,518
#1 Compressor run time *	hours	472	549	125,862
#2 Compressor run time *	hours	720	1,445	91,593
#3 Compressor run time *	hours	247	879	75,807

\* Field/CHEU Compressor Operations based on Nov 20 activity

<b>Crude Helium Enrichment Unit (CHEU) CHEU Runtime</b>	Month		FYTD		Cumulative
	Runtime Hrs	Percent	Runtime Hrs	Percent	Runtime Hrs
Processing feed gas	720	100.0%	1,465	100.1%	146,889
Producing residue gas	720	100.0%	1,438	98.3%	143,604
Producing helium product	642	89.2%	1,352	92.4%	139,400
Producing natural gas liquids	720	100.0%	1,434	98.0%	138,903

<b>CHEU Utility Usage</b>	Month	FYTD	Cumulative
Cheu Fuel Gas (Mcf) usage Nov 20	3,250	6,485	709,712
Cheu Pure Water Usage (gallons) Nov 20	3	1,286	331,475
Electricity Metered (Kwh) CHEU consumed Oct 20	2,738,846	5,077,514	246,105,323

<b>Booster Compressor Operations and Usage</b>	Month	FYTD	Cumulative
Electricity Metered (Kwh) Booster Compressor consumed Oct 20	685,189	1,275,921	6,416,001