Bureau of Land Management



Amarillo Field Office
Helium Operations
Statistical Report
for

February - 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: January 29, 2021

"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 29, 2021

Table 1 - Summary of Helium Operations

February - 2020

Helium Enrichment Unit Operations Gas Processed	Month Gross Volume	Month Net Helium	Average Percent	Gross FYTD	Net FYTD
Measured Plant Feed (Mcf*)	466,310	72,128	15.47%	2,163,092	321,653
Helium Product (Mcf*)	100,222	72,157	72.00%	450,495	322,720
Residue Natural Gas (Mcf*)	235,738	0	00.00%	922,539	54

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

Natural Gas & Liquids Produced

Gas Processed	Month	FYTD
Natural Gas Sales (Mcf***)	233,152	912,058
NGL Sales (gallons)	72,935	348,255

^{***} 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Total Withdrawn (Mcf*)	464,942	71,914	15.47%	2,178,625	323,388
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

In Kind Helium	Month	FYTD	CYTD	Cumulative
Sale Volumes Transferred (Mcf*)	54,379	105,848	54,379	3,955,592
Sale Volumes Outstanding (Mcf*)	(5,391)			

^{*} 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*)	13,057	9,516	72.88%	45521
Crude Disposed (Mcf*)	102,818	73,745	71.72%	349323
Net Balance (Mcf*)	(89,761)	(64,229)		(303,802)
Balance of Stored Helium End Of Month (Mcf*)		2,231,933		

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

Revenue / Charges

Helium Storage Contracts (Charges Billed (\$)	Month	FYTD
Storage Fees Billed (\$)	\$965,383	\$4,391,171
Resource Management Fees Billed (\$)	\$274,090	\$1,096,372
Total Storage and RMF Collected	\$1,239,473	\$5,487,543

Conservation Helium - Natural Gas - Liquid Sales	(Charges Billed (\$)	Month	FYTD
In Kind Sales		\$0	\$4,234,910
Natural Gas & Liquid Sales		\$221,554	\$1,269,887

Helium Resources Evaluation	Month	FYTD
Revenue Collected from Federal Lease Holds	\$2,015,251	\$8,530,396
Helium Sample Collection Report for month	Analyzed -	15

Table 2 - Bush Dome Reservoir Operations

February - 2020

	Ī	Gross V	Vithdrawal	Net Helium	n Withdrawal	Nitr	ogen	Methane	Methane	Ethar	ne plus	Other (CO2, Ar, H2)	
		Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative
TOTAL		464,942	246,593,140	71,914	45,540,559	117,157	60,797,695	252,855	125,405,456	18,332	12,750,321	4,683	2,099,109
BIVINS A-3	Feb-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	Feb-20	46,511	13,439,100	16,172	7,644,387	11,578	3,309,697	16,523	2,193,646	1,865	222,510	373	68,860
BIVINS A-13	Feb-20	33,838	9,942,775	9,852	4,927,667	8,471	2,545,703	13,666	2,167,308	1,588	242,054	260	60,044
BIVINS A-14	Feb-20	38,688	11,240,947	8,446	5,955,957	9,467	2,837,186	18,335	2,143,074	2,069	232,994	371	71,735
BIVINS A-4	Feb-20	30,991	14,996,254	2,936	2,551,364	7,688	3,630,919	19,226	7,881,672	774	795,449	367	136,850
BUSH A-2	Feb-20	4,961	14,109,793	220	2,024,141	1,296	3,465,627	3,272	7,708,416	142	795,221	32	116,388
Injection	Feb-20	0	66,474,735	0	48,019,788	0	17,121,580	0	780,676	0	37	0	552,655
inj Bivins A-3	Feb-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	Feb-20	0	(24,412,686)	0	(17,669,978)	0	(6,486,588)	0	(143,192)	0	(72)	0	(112,856)
inj Bivins A-13	Feb-20	0	(6,490,417)	0	(4,706,191)	0	(1,656,853)	0	(122,391)	0	(2)	0	(4,980)
inj Bivins A-14	Feb-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	Feb-20	0	(2,527,801)	0	(1,848,815)	0	(601,353)	0	(42,016)	0	0	0	(35,617)
inj Bush A-2	Feb-20	0	(867,658)	0	(625,258)	0	(215,406)	0	(13,980)	0	0	0	(13,015)
Production	Feb-20	0	1,254,876	0	924,742	0	270,231	0	48,129	0	3,199	0	8,575
BIVINS A-1	Feb-20	0	2,686,608	0	48,896	0	636,995	0	1,798,415	0	175,704	0	26,597
BIVINS A-2	Feb-20	18,618	14,861,404	585	1,909,245	4,543	3,630,024	12,772	8,359,239	525	837,398	192	125,497
BIVINS A-5	Feb-20	25,306	17,180,682	4,588	2,252,602	6,635	4,223,067	13,345	9,588,363	525	968,683	213	147,968
BIVINS A-7	Feb-20	15,634	12,410,610	4,827	2,964,151	4,144	3,129,704	6,327	5,648,383	225	578,063	111	90,308
BIVINS A-9	Feb-20	23,683	11,738,588	710	233,421	5,980	2,899,109	15,067	7,712,260	1,707	787,229	218	106,570
BIVINS A-11	Feb-20	18,293	7,259,738	545	163,161	4,592	1,808,814	11,724	4,729,568	1,247	489,292	184	68,903
BIVINS A-15	Feb-20	24,377	11,284,089	404	455,672	5,630	2,679,470	16,392	7,294,543	1,651	734,397	300	120,008
BIVINS B-1	Feb-20	29,831	9,455,778	712	333,035	7,591	2,295,793	20,303	6,098,732	820	627,498	406	100,720
BIVINS B-2	Feb-20	23,922	7,901,297	440	148,786	6,039	1,980,840	15,445	5,124,878	1,573	531,315	425	115,477
BUSH A-1	Feb-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	Feb-20	28,219	13,391,165	9,121	3,275,414	7,265	3,317,893	11,173	6,063,982	409	617,156	251	116,719
BUSH A-4	Feb-20	22,709	9,577,128	1,680	1,659,099	6,043	2,401,063	14,285	4,942,491	564	506,982	138	67,493
BUSH A-5	Feb-20	41,589	18,435,595	9,923	4,280,564	10,890	4,634,351	19,747	8,520,290	766	873,707	263	126,683
BUSH A-8	Feb-20	15,861	5,041,300	286	92,372	3,923	1,224,957	10,325	3,319,854	1,056	337,288	272	66,829
BUSH A-9	Feb-20	0	3,860,915	0	105,037	0	930,915	0	2,537,187	0	253,463	0	34,312
BUSH A-11	Feb-20	16,881	5,165,261	381	146,084	4,211	1,236,043	11,565	3,378,699	467	343,397	256	61,037
BUSH B-1	Feb-20	5,028	3,518,384	86	65,801	1,169	834,166	3,364	2,350,778	359	233,139	51	34,501
FUQUA A-1	Feb-20	0	2,954,098	0	53,854	0	702,798	0	1,975,175	0	193,573	0	28,699
FUQUA A-2	Feb-20	0	132,119	0	2,404	0	31,322	0	88,458	0	8,637	0	1,297
FUQUA A-3	Feb-20	0	9,303,912	0	577,005	0	2,277,687	0	5,790,357	0	583,701	0	75,162
TT Fuel	Feb-20	14	0	0	0	3	0	9	0	1	0	0	0
field-	wide pcts			15.47%	18.47%	25.20%	24.66%	54.38%	50.86%	3.94%	5.17%	1.01%	0.85%

est z-factor 0.980

Latest estimates of reserves and feed to HEU Based on NITEC's 2003 reserves study from NITEC's interim report

As of EOM	Feb-20	Volumes in BCF				
Initial Gas In F	Place		330.040			
Produced 192	4 to 1961		48.830			
Injected 1924	to 1961		0.450			
Remaining Ga	s In Place 1961		281.660			
Left Behind Pi	pe, 1961		82.060	====>	1.500	BCF of contained helium
Remaining in I	Place, 1961		199.600			
Gas In Place 1	1961		199.600			
Produced 196	1 to July 2002		82.450			
Injected 1961	to July 2002		64.510		Net Helium	
Remaining Ga	s In Place July 20	02	181.660		33.997	
Produced July	2002 through Dec	2002	1.096		0.743	
Production 200	03 - 19		113.305		27.048	
Injection 2003	- 19		(1.423))	(1.159)	
Produced to D	ate 2020		0.952		0.144	
Injected to Da	te 2020		0.000		0.000	
Amount of Rav	w Gas Available to	CHEU	67.730	====>	7.220	total helium in reservoir
Estimated Bot	tom Hole Pressur	е	249.516			

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

Table 3 - Gas Volumes & Inventory

February - 2020

Crude Helium Enrichment Unit Operations

		Gross V	Vithdrawal	Net Helium	Withdrawal	Nitr	rogen	Met	hane	Ethar	ne plus	Other (CC	D2, Ar, H2)
		Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative
Measured Feed	Feb-20	466,310	111,481,479	72,128	25,502,750	117,502	27,894,406	253,597	51,572,020	18,386	5,527,497	4,697	984,806
Calculated Feed	Feb-20	464,927	111,370,773	71,914	25,500,371	117,154	27,859,972	252,846	51,477,819	18,331	5,545,376	4,683	987,234
Feed to Box	Feb-20	460,909	110,628,718	71,914	25,500,550	117,154	27,860,054	252,846	51,477,865	18,331	5,545,370	664	244,879
Cheu Product	Feb-20	100,222	32,431,222	72,157	25,135,345	25,143	6,427,684	2,274	644,147	2	932	646	223,114
Residue	Feb-20	235,738	51,096,645	0	2,226	6,122	1,246,364	208,077	45,334,385	21,539	4,512,405	0	1,265
Cold Box Vent	Feb-20	68,762	18,187,655	41	92,058	58,952	16,120,271	9,755	1,913,353	0	246	14	61,727
Flare/Boot Strap	Feb-20	0	8,574,528	0	53,124	0	7,259,311	0	1,161,305	0	94,251	0	6,537
Fuel From Cheu	Feb-20	7,251	1,519,801	4	515	188	43,695	5,848	1,231,348	1,212	244,244	0	0
Shrinkage/Loss	Feb-20	(4,422)	590,221	0	0	0	0	0	0	(4,422)	590,221	0	0
Unaccounted*	Feb-20	53,357	4,538,458	(288)	162,757	26,749	3,164,718	26,891	1,206,105	(0)	974	4	3,904

*Before October 2004, the values are estimated

Storage Operations

Inventory (contained helium)

	Government	Private
Beginning inventory	2,747,371	2,241,783
net acceptances +	0	0
redeliveries	0	(64,229)
In Kind Transfers	(54,379)	54,379
Conservation Crude Sales	0	0
Gain/loss	(2,925)	
Ending Inventory	2,690,066	2,231,933
Total Helium in Reservoir	7,219,794	
Total Helium in Storage	4,921,999	
Helium in native gas	2,297,901	

Crude Helium Pipeline

_	Gross	Net Helium	Percent
Beginning inventory	29,451	21,091	71.61%
Measured to Pipeline (Private Plants)	13,057	9,516	72.88%
Measured from Pipeline (Private Plants	102,818	73,745	71.72%
HEU Production	100,222	72,157	72.00%
Injection	0	0	00.00%
Production	0	0	
Ending Inventory	36,132	25,986	71.92%
Gain/Loss	(3,780)	(3,032)	

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

-	Table 4 - In Kind Helium Sales					February - 2020			
	NASA*	Navy*	Army*	Air Force*	DOE*	Other Fed*	Subtotal*	In Kind+	Charges Billed (\$)**
			I	n Kind He	elium				(billed quarterly)
Airgas Merchant G Month FYTD	ases, Contra	ct no. INC18	3-0102						
Air Liquide Helium Month FYTD	America, Inc.	., Contract	no. INC18-0	0104					
Air Products, L.P., Month FYTD	Contract no.	INC18-0105							
Messer, LLC, Cont Month FYTD	ract no. INC1	8-0106							
Praxair, Inc., Contr Month FYTD	act no. INC18	3-0112							
Matheson Tri-Gas, Month FYTD	Inc., Contrac	t no. INC18	-0114						
Global Gases Ame Month FYTD	rica, Contract	t no. INC18-	0116						
Month FYIU	0 U	0 U	0 U	0 U	0 U	0 U	0	U U	\$0 \$0
Total month	0	0	0	0	0	0	0	0	\$0
Total FYTD	20,294	52	0	0	0	24,933	45,279	44,578	\$4,234,910
Total CYTD	0	0	0	0	0	0	0	0	\$0
Cumulative	2,153,360	108,870	450	271,593	422,045	1,055,937	4,012,254	3,950,126	\$244,954,337
In Kind Transf Transferred Volume outstanding	fers						Month 54,379 (5,391)	FYTD 105,848	CYTD Cumulative 54,379 3,955,592

Natural Gas / Natural Gas Liquid Sales

	Natural Gas (Mcf)***	NGLs (gal)	Decatherms	Avg Btu Value	Charges	Billed (\$)**
El Paso Natural Gas		Provides Measure	d Firm/Interruptible Transportation Services			(billed monthly)
Month	233,152		256,596	1,101	\$0	
FYTD	912,058		1,004,028	1,101	\$0	
Cumulative	50,428,096		54,918,797	1,089	(\$5,088,325)	
Minerals Manageme	ent Service	No Longer Provides Na	tural Gas Marketing Ser	vices	•	
Cumulative					(\$179,913)	
ETC Marketing Ltd		Purchaser - Natural Gas	6	\$\$/Unit		
Month			259,300	\$0.725130	\$188,026	
FYTD			1,014,100	\$1.053280	\$1,068,131	
Cumulative			54,819,459	\$4.046279	\$220,988,251	
<u>Sandstone</u>		Purchaser - Natural Gas	s Liquids			
Month		72,935	7,855	\$4.268371	\$33,528	
FYTD		348,255	37,643	\$5.359724	\$201,756	
Cumulative		15,796,076	1,684,285	\$10.294781	\$17,339,346	
	Natural Gas (Mcf)***	NGLs (gal)	Purchased (Dth's)	\$\$ Per Unit (\$\$/Dth)		Total (\$\$)
Total month	233,152	72,935	267,155	\$0.829310		\$221,554
Total FYTD	912,058	348,255	1,051,743	\$1.207412		\$1,269,887
Total CYTD	459,688	146,972	522,849	\$0.910034		\$475,810
Cumulative	50,428,096	15,796,076	56,503,744	\$4.139299		\$233,059,358

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

February - 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.

All Volumes in Mcf at 14.7 psia & 70°F

Revenue Collected From Federal Leaseholds	Month*	FYTD*
Fee Sales & Royalties	\$1,989,121	\$8,462,036
Natural Gas Royalties (1)	\$0	\$0
Natural Gas Rentals	\$0	\$0
Other	<u>\$68,360</u>	<u>\$299,332</u>
Revenue Collected from Federal Lease Holds	\$2,015,251	\$8,530,396

^{*}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)	15	63

U. S. Helium Production

Domestic	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 All Volumes in Mcf at 14.65 psia & 60°F

February - 2020

Cross Gas Helium Helium Helium Helium Cumulative Month Cumulative FYTD	All Volumes	in Mcf at 1	4.65 psia		1.0			- ·		0, 1	Ob	- Bill- I
Total All Contracts* Coulse Acquired 13,057 72,996 9,516 45,527 2332 175,832,74 99,119 61,412,449 120,000 80,000 80,417,476,18 100,2815 71,737,45 94,96,323 100,375 55,157,733 4740 98,683,75 98,663,382,60 80,600,200 80,875 100,2815 71,737 47,475 80,9374 99,119 61,412,449 98,141 61,412,419 100,2815 71,737,45 94,93,23 100,375 55,157,733 47,40 98,683,75 98,663,382,60 80,600,200 80,875 100,2815 100,2		0	LL-E 0/		ed Gas	I I a Passas		-	I	Stored		
Total Al Contracts* Coulds Conjuged 13,057 72.9% 9.516 45.521 22.335 27.803.274 59.119 51.412.488		Gross Gas		Helium	FYTD		Cumulative					
Cincia Polipared 10,967 72,9% 9,516 45,521 22,333 27,596,274 59,119 61,412,446 Cincia Disposed 10,2818 71,7% 73,745 349,323 10,057 55,515,733 4,740 28,986,375 52,740,000 8 10,7478,718 4,740 10,748,718 4,740 10,748,718 4,740 10,748,718 4,740 10,748,718 4,740 10,748,718 4,740 10,748,718 4,740 10,748,718 4,740 10,748,718 4,740 10,748,718 4,740 10,748,718 4,740 10,748,718 4,740 10,748,718 4,744,073 2,231,333 11,334,477,72 150,487,740 10,748,718 4,7	Total All Contra	icts*	WOTE			0115	Cumulativo	Wienten	Cumulative	20111	Wienar	1112
Chade Disposed 102,318 71.7% 73,745 340,323 160,375 55,157,733 4,740 26,968,375 58,500,968 Fees Canded A Right of 0 0 0 0 1,478,718 54,377 34,444,073 2,221,333 510,967 Fees Canded A Right of 1,478,718 54,377 34,444,073 2,221,333 510,967 Fees Canded A Right of 1,478,718 54,377 34,444,073 2,221,333 510,967 Fees Canded A Right of 1,478,718 54,377 34,444,073 2,221,333 51,398,472,72 55,487,543 51,488,748 51,489,749,749 51,489,749,749 51,489,749,749 51,489,749 51,			72.00/	0.516	4E E21	22 222	27 502 274	50 110	61 412 449			
Ministration Contract National Contract Contract National Contract Contract National Contract Contract National Contract											\$065 382 66	Storage Fees
NelBalance (88,781) (64,229) (303,807) (138,242) (29,133,177) 84,379 34,444,073 2,231,333 \$1,239,472.72 \$5,487,645 Total Prior Contracts (TERMINATED) Crude Acquired 0 0 0 17,406,129 0 18,235,232 Crude Disposed 0 0 0 1,478,718			71.770					4,740	20,900,373			, i
Total Prior Contracts (TERMINATED) Crude Acquired O								E4 270	24 444 072	2 221 022		
Crude Acquired		V 7	MINATED)	(04,229)	(303,602)	(130,242)	(29,133,177)	34,379	34,444,073	2,231,933	\$1,239,472.72	φυ,467,043
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Remaining Crude	Acquired beginning of the month	2,747,371
Crude Disposed:	In Kind Sales transferred for the month	(54,379)
	Conservation Crude Sales/Reserve Sell Down transferred (month)	0
	Gains and Loses for the month	(2,925)
Net/Balance of Pu	rchased Helium Remaining for Sale	2,690,066

Field/CHEU Compressor Operations			FYTD	Cumulative
Spot gas fuel price ∗	\$ per/MMBTU	\$0.73		
Fuel used * (now includes field compression well head)	total MMBTU	8,398	40,902	2,036,917
#1 Compressor run time *	hours	0	1,070	124,614
#2 Compressor run time *	hours	696	3,068	86,814
#3 Compressor run time *	hours	696	2,692	71,547

^{*} Field/CHEU Compressor Operations based on Feb 20 activity

Crude Helium Enrichment Unit (CHEU)	Мо	nth	FY	Cumulative	
CHEU Runtime	Runtime Hrs	Percent	Runtime Hrs	Percent	Runtime Hrs
Processing feed gas	696	100.0%	3,425	93.9%	141,528
Producing residue gas	696	100.0%	3,361	92.1%	138,311
Producing helium product	696	100.0%	3,277	89.8%	134,391
Producing natural gas liquids	696	100.0%	3,344	91.7%	133,654

CHEU Utility Usage	Month	FYTD	Cumulative
Cheu Fuel Gas (Mcf) usage Feb 20	3,274	36,373	682,480
Cheu Pure Water Usage (gallons) Feb 20	419	2,084	327,877
Electricity Metered (Kwh) CHEU consumed Jan 20	2,621,117	12,178,119	225,373,746

Booster Compressor Operations and Usage	Month	FYTD	Cumulative
Electricity Metered (Kwh) Booster Compressor consumed Jan 20	647,986	1,248,739	1,248,739