

**ALLOCATED / NON ALLOCATED CRUDE HELIUM SALE**

**Summary**

Bidders	Volumes Awarded (Mcf)	Percent Received from Sale	Total Revenues	
Air Products	29,146	32.38%	\$ 5,100,550	Allocated
Praxair, Inc	27,528	30.59%	\$ 4,817,400	Allocated
Linde Gas North America LLC	21,050	23.39%	\$ 3,683,750	Allocated
Keyes Helium Company	3,276	3.64%	\$ 573,300	Allocated
IACX	-	0.00%	\$ -	Allocated
Air Liquide Helium America, Inc.	-	0.00%	\$ -	Non-Allocated
Pioneer Natural Resources	-	0.00%	\$ -	Non-Allocated
Matheson Tri-Gas, Inc.	1,500	1.67%	\$ 262,500	Non-Allocated
Airgas Merchant Gases	-	0.00%	\$ -	Non-Allocated
Global Gases America, Inc.	1,500	1.67%	\$ 262,500	Non-Allocated
Linn Operating, Inc.	-	0.00%	\$ -	Non-Allocated
Uniper Global Commodities North America LLC	1,500	1.67%	\$ 262,500	Non-Allocated
Weil Group Resources LLC	1,500	1.67%	\$ 262,500	Non-Allocated
NAH USA Helium Marketing, Inc.	1,500	1.67%	\$ 262,500	Non-Allocated
Progressive Chemical Technologies, LLC	1,500	1.67%	\$ 262,500	Non-Allocated
	90,000	100.00%	\$15,750,000	

Mcf - Thousand square feet

**Award Details**

Price per Mcf	\$175.00	
(all volumes in Mcf)		
<b>Total Volume this Sale</b>	90,000	Mcf
(percent to allocated sale)	90.00%	81,000.0
(percent to Non-allocated sale)	10.00%	9,000.0
Total Sales	90,000	Mcf
Amount not sold	0	Mcf

Allocated Sale	Installed Refining Capacity <sup>(1)</sup>	Volume Offers	Round 1	Excess Volume Requested	Proportion Percentage for Round 2	Round 2	Excess Volume Requested	Proportion Percentage for Round 3	Round 3	Excess Allocation Round 3	Total Allocated
<b>Refiners on Pipeline</b>											
IACX Energy	0	1.15%	-	-	-	-	-	-	-	-	-
Keyes Helium Company, LLC	1	4.00%	4,000	3,239.0	4.00%	37.0	724.0	4.00%	-	724.0	3,276.0
Linde Gas North America LLC	1	25.69%	24,000	20,807.0	26.00%	243.0	2,950.0	26.00%	-	2,950.0	21,050.0
Praxair, Inc	1	33.59%	90,000	27,210.0	34.00%	318.0	62,472.0	34.00%	-	62,472.0	27,528.0
Air Products and Chemicals, Inc.	1	35.57%	90,000	28,810.0	36.00%	336.0	60,854.0	36.00%	-	60,854.0	29,146.0
<b>Total</b>	4	100.00%	208,000	80,066.0	100.00%	934.0	127,000.0	100.00%	-	127,000.0	81,000.0

**Total Allocated Sale Volume:** 81,000 Mcf 934.0 Mcf - Mcf -

Non-Allocated Sale	Proportion Percentage for Round 1	Volume Offers	Round 1	Excess Volume Requested	Proportion Percentage for Round 2	Round 2	Excess Volume Requested	Proportion Percentage for Round 3	Round 3	Excess Allocation Round 3	Total Allocated
<b>Non-Refiners on Pipeline</b>											
Air Liquide Helium America, Inc.	0	0.00%	-	-	0.00%	-	-	0.00%	-	-	-
Pioneer Natural Resources	0	0.00%	-	-	0.00%	-	-	0.00%	-	-	-
Matheson Tri-Gas, Inc.	1	16.67%	9,000	1,500.0	16.67%	-	7,500.0	16.67%	-	7,500.0	1,500.0
Airgas Merchant Gases	0	0.00%	-	-	0.00%	-	-	0.00%	-	-	-
Global Gases America, Inc.	1	16.67%	9,000	1,500.0	16.67%	-	7,500.0	16.67%	-	7,500.0	1,500.0
Linn Operating, Inc.	0	0.00%	-	-	0.00%	-	-	0.00%	-	-	-
Uniper Global Commodities North America LLC	1	16.67%	50,000	1,500.0	16.67%	-	48,500.0	16.67%	-	48,500.0	1,500.0
Weil Group Resources LLC	1	16.67%	9,000	1,500.0	16.67%	-	7,500.0	16.67%	-	7,500.0	1,500.0
NAH USA Helium Marketing, Inc.	1	16.67%	9,000	1,500.0	16.67%	-	7,500.0	16.67%	-	7,500.0	1,500.0
Progressive Chemical Technologies, LLC	1	16.67%	5,000	1,500.0	16.67%	-	3,500.0	16.67%	-	3,500.0	1,500.0
Number of Bidders	6	100.00%	91,000	9,000.0	100.00%	-	82,000.0	100.00%	-	82,000.0	9,000.0

**Non Allocated Volume:** 9,000 Mcf 9,000.0 3,500.0 6 3,500.0 6

**Total Non-Allocated Sale Volume Including Carryover Amount:** 9,000 Mcf

- (1) The volume of helium from the Federal Helium Reserve available for the allocated sale under the preceding paragraph will be apportioned to each refiner based on the refiner's percentage share (rounded to the nearest 1/10th of 1 percent) of the total refining capacity connected to the BLM crude helium pipeline as of October 1, 2017.
- (2) Per IFO, Refiners on the Federal Crude Helium Pipeline System in the Allocated Sales will only be awarded helium in the Non-Allocated Sales category if there remain unallocated volumes not awarded to non-refiners.