



# BARGE "KIRBY 29170"

ULLAGE (HERMETIC)

FORMERLY "SMI 30056"

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
1 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
2 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8
2 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8
3 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
3 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 2'-00"  
 AFT DRAFT = 5'-00"  
 DIFF. = 3'-00" (DOWN BY STERN)

THE CORRECTION FOR 3'-00" TRIM DOWN BY STERN FOR 3 PORT IS - 00-1/8"  
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 3 PORT, THE TRIM CORRECTED ULLAGE IS 3'-11 7/8"

LENGTH BETWEEN DRAFT MARKS: 235'-09"

May 13, 2024

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "KIRBY 29170"

## 1 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMI 30056"

GAUGE HEIGHT 17'-04"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH HERMETIC DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-03" FORWARD OF AFT BULKHEAD.

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# BARGE "KIRBY 29170"

## 1 PORT ULLAGE TABLE HERMETIC

GAUGE HEIGHT 17'-04"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMI 30056"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,568.76	0	2,210.63	0	1,852.50	0	1,494.37	0	1,136.25	0	780.28	0	423.58	0	102.41	0		0	
1/4	2,561.30	1/4	2,203.17	1/4	1,845.04	1/4	1,486.91	1/4	1,128.81	1/4	772.83	1/4	416.41	1/4	96.29	1/4		1/4	
1/2	2,553.84	1/2	2,195.71	1/2	1,837.58	1/2	1,479.45	1/2	1,121.37	1/2	765.39	1/2	409.23	1/2	90.17	1/2		1/2	
3/4	2,546.38	3/4	2,188.25	3/4	1,830.12	3/4	1,471.99	3/4	1,113.93	3/4	757.94	3/4	402.06	3/4	84.05	3/4		3/4	
1	2,538.91	1	2,180.79	1	1,822.66	1	1,464.53	1	1,106.49	1	750.49	1	394.88	1	77.93	1		1	
1/4	2,531.45	1/4	2,173.33	1/4	1,815.20	1/4	1,457.07	1/4	1,099.06	1/4	743.03	1/4	387.80	1/4	71.90	1/4		1/4	
1/2	2,523.99	1/2	2,165.86	1/2	1,807.74	1/2	1,449.61	1/2	1,091.63	1/2	735.57	1/2	380.71	1/2	65.87	1/2		1/2	
3/4	2,516.53	3/4	2,158.40	3/4	1,800.28	3/4	1,442.15	3/4	1,084.20	3/4	728.11	3/4	373.62	3/4	59.84	3/4		3/4	
2	2,509.07	2	2,150.94	2	1,792.81	2	1,434.69	2	1,076.77	2	720.65	2	366.54	2	53.81	2		2	
1/4	2,501.61	1/4	2,143.48	1/4	1,785.35	1/4	1,427.23	1/4	1,069.35	1/4	713.19	1/4	359.54	1/4	48.56	1/4		1/4	
1/2	2,494.15	1/2	2,136.02	1/2	1,777.89	1/2	1,419.76	1/2	1,061.92	1/2	705.73	1/2	352.54	1/2	43.32	1/2		1/2	
3/4	2,486.69	3/4	2,128.56	3/4	1,770.43	3/4	1,412.30	3/4	1,054.50	3/4	698.27	3/4	345.54	3/4	38.08	3/4		3/4	
3	2,479.23	3	2,121.10	3	1,762.97	3	1,404.84	3	1,047.08	3	690.80	3	338.54	3	32.83	3		3	
1/4	2,471.77	1/4	2,113.64	1/4	1,755.51	1/4	1,397.38	1/4	1,039.67	1/4	683.34	1/4	331.63	1/4	29.31	1/4		1/4	
1/2	2,464.30	1/2	2,106.18	1/2	1,748.05	1/2	1,389.92	1/2	1,032.25	1/2	675.88	1/2	324.72	1/2	25.79	1/2		1/2	
3/4	2,456.84	3/4	2,098.72	3/4	1,740.59	3/4	1,382.46	3/4	1,024.83	3/4	668.42	3/4	317.81	3/4	22.26	3/4		3/4	
4	2,449.38	4	2,091.25	4	1,733.13	4	1,375.00	4	1,017.41	4	660.96	4	310.90	4	18.73	4		4	
1/4	2,441.92	1/4	2,083.79	1/4	1,725.67	1/4	1,367.54	1/4	1,010.00	1/4	653.50	1/4	304.07	1/4		1/4		1/4	
1/2	2,434.46	1/2	2,076.33	1/2	1,718.20	1/2	1,360.08	1/2	1,002.59	1/2	646.04	1/2	297.25	1/2		1/2		1/2	
3/4	2,427.00	3/4	2,068.87	3/4	1,710.74	3/4	1,352.62	3/4	995.18	3/4	638.58	3/4	290.43	3/4		3/4		3/4	
5	2,419.54	5	2,061.41	5	1,703.28	5	1,345.15	5	987.77	5	631.12	5	283.60	5		5		5	
1/4	2,412.08	1/4	2,053.95	1/4	1,695.82	1/4	1,337.69	1/4	980.36	1/4	623.66	1/4	276.87	1/4		1/4		1/4	
1/2	2,404.62	1/2	2,046.49	1/2	1,688.36	1/2	1,330.23	1/2	972.95	1/2	616.20	1/2	270.13	1/2		1/2		1/2	
3/4	2,397.16	3/4	2,039.03	3/4	1,680.90	3/4	1,322.77	3/4	965.54	3/4	608.74	3/4	263.40	3/4		3/4		3/4	
6	2,389.69	6	2,031.57	6	1,673.44	6	1,315.31	6	958.13	6	601.28	6	256.66	6		6		6	
1/4	2,382.23	1/4	2,024.11	1/4	1,665.98	1/4	1,307.85	1/4	950.72	1/4	593.82	1/4	250.02	1/4		1/4		1/4	
1/2	2,374.77	1/2	2,016.64	1/2	1,658.52	1/2	1,300.39	1/2	943.31	1/2	586.35	1/2	243.37	1/2		1/2		1/2	
3/4	2,367.31	3/4	2,009.18	3/4	1,651.06	3/4	1,292.93	3/4	935.89	3/4	578.89	3/4	236.72	3/4		3/4		3/4	
7	2,359.85	7	2,001.72	7	1,643.59	7	1,285.47	7	928.48	7	571.43	7	230.08	7		7		7	
1/4	2,352.39	1/4	1,994.26	1/4	1,636.13	1/4	1,278.01	1/4	921.07	1/4	563.97	1/4	223.52	1/4		1/4		1/4	
1/2	2,344.93	1/2	1,986.80	1/2	1,628.67	1/2	1,270.54	1/2	913.66	1/2	556.51	1/2	216.96	1/2		1/2		1/2	
3/4	2,337.47	3/4	1,979.34	3/4	1,621.21	3/4	1,263.08	3/4	906.25	3/4	549.05	3/4	210.40	3/4		3/4		3/4	
8	2,330.01	8	1,971.88	8	1,613.75	8	1,255.62	8	898.84	8	541.59	8	203.84	8		8		8	
1/4	2,322.55	1/4	1,964.42	1/4	1,606.29	1/4	1,248.16	1/4	891.43	1/4	534.13	1/4	197.37	1/4		1/4		1/4	
1/2	2,315.08	1/2	1,956.96	1/2	1,598.83	1/2	1,240.70	1/2	884.02	1/2	526.67	1/2	190.90	1/2		1/2		1/2	
3/4	2,307.62	3/4	1,949.50	3/4	1,591.37	3/4	1,233.24	3/4	876.61	3/4	519.21	3/4	184.42	3/4		3/4		3/4	
9	2,300.16	9	1,942.03	9	1,583.91	9	1,225.78	9	869.20	9	511.75	9	177.95	9		9		9	
1/4	2,292.70	1/4	1,934.57	1/4	1,576.45	1/4	1,218.32	1/4	861.79	1/4	504.32	1/4	171.57	1/4		1/4		1/4	
1/2	2,285.24	1/2	1,927.11	1/2	1,568.98	1/2	1,210.86	1/2	854.38	1/2	496.89	1/2	165.19	1/2		1/2		1/2	
3/4	2,277.78	3/4	1,919.65	3/4	1,561.52	3/4	1,203.40	3/4	846.97	3/4	489.46	3/4	158.80	3/4		3/4		3/4	
10	2,270.32	10	1,912.19	10	1,554.06	10	1,195.93	10	839.56	10	482.04	10	152.42	10		10		10	
1/4	2,262.86	1/4	1,904.73	1/4	1,546.60	1/4	1,188.47	1/4	832.15	1/4	474.69	1/4	146.13	1/4		1/4		1/4	
1/2	2,255.40	1/2	1,897.27	1/2	1,539.14	1/2	1,181.01	1/2	824.74	1/2	467.34	1/2	139.83	1/2		1/2		1/2	
3/4	2,247.94	3/4	1,889.81	3/4	1,531.68	3/4	1,173.55	3/4	817.33	3/4	459.98	3/4	133.54	3/4		3/4		3/4	
11	2,240.47	11	1,882.35	11	1,524.22	11	1,166.09	11	809.92	11	452.63	11	127.24	11		11		11	
1/4	2,233.01	1/4	1,874.89	1/4	1,516.76	1/4	1,158.63	1/4	802.51	1/4	445.37	1/4	121.03	1/4		1/4		1/4	
1/2	2,225.55	1/2	1,867.42	1/2	1,509.30	1/2	1,151.17	1/2	795.10	1/2	438.11	1/2	114.83	1/2		1/2		1/2	
3/4	2,218.09	3/4	1,859.96	3/4	1,501.84	3/4	1,143.71	3/4	787.69	3/4	430.84	3/4	108.62	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/13/2014 SW  
RECALCULATED: 05/13/2024 JS  
NAME CHANGE: 05/13/2024 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 05/2024

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
<http://www.pmacorp.net>



# BARGE "KIRBY 29170"

## 1 STBD ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMI 30056"

GAUGE HEIGHT 17'-04"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	0	0	0	0	0	0	4,716.61	0	4,360.09	0	4,002.28	0	3,644.35	0	3,286.42	0	2,928.49
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,709.22	1/4	4,352.65	1/4	3,994.82	1/4	3,636.89	1/4	3,278.96	1/4	2,921.03
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,701.82	1/2	4,345.22	1/2	3,987.37	1/2	3,629.43	1/2	3,271.50	1/2	2,913.58
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,694.43	3/4	4,337.78	3/4	3,979.91	3/4	3,621.98	3/4	3,264.05	3/4	2,906.12
1	1	1	1	1	1	1	1	1	4,687.03	1	4,330.34	1	3,972.45	1	3,614.52	1	3,256.59	1	2,898.67
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,014.74	1/4	4,679.64	1/4	4,322.90	1/4	3,965.00	1/4	3,607.06	1/4	3,249.13
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,010.27	1/2	4,672.24	1/2	4,315.45	1/2	3,957.54	1/2	3,599.61	1/2	3,241.68
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,005.80	3/4	4,664.85	3/4	4,308.00	3/4	3,950.08	3/4	3,592.15	3/4	3,234.22
2	2	2	2	2	2	2	2	2	5,001.34	2	4,657.45	2	4,300.56	2	3,942.62	2	3,584.69	2	3,226.76
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,995.80	1/4	4,650.03	1/4	4,293.10	1/4	3,935.17	1/4	3,577.24	1/4	3,219.31
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,990.27	1/2	4,642.60	1/2	4,285.64	1/2	3,927.71	1/2	3,569.78	1/2	3,211.85
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,984.73	3/4	4,635.18	3/4	4,278.19	3/4	3,920.25	3/4	3,562.32	3/4	3,204.39
3	3	3	3	3	3	3	3	3	4,979.20	3	4,627.75	3	4,270.73	3	3,912.80	3	3,554.87	3	3,196.93
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,972.60	1/4	4,620.32	1/4	4,263.27	1/4	3,905.34	1/4	3,547.41	1/4	3,189.48
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,966.00	1/2	4,612.88	1/2	4,255.81	1/2	3,897.88	1/2	3,539.95	1/2	3,182.02
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,959.40	3/4	4,605.45	3/4	4,248.36	3/4	3,890.43	3/4	3,532.50	3/4	3,174.56
4	4	4	4	4	4	4	4	4	4,952.80	4	4,598.01	4	4,240.90	4	3,882.97	4	3,525.04	4	3,167.11
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,945.54	1/4	4,590.58	1/4	4,233.44	1/4	3,875.51	1/4	3,517.58	1/4	3,159.65
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,938.27	1/2	4,583.14	1/2	4,225.99	1/2	3,868.06	1/2	3,510.12	1/2	3,152.19
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,931.00	3/4	4,575.71	3/4	4,218.53	3/4	3,860.60	3/4	3,502.67	3/4	3,144.74
5	5	5	5	5	5	5	5	5	4,923.74	5	4,568.27	5	4,211.07	5	3,853.14	5	3,495.21	5	3,137.28
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,916.34	1/4	4,560.84	1/4	4,203.62	1/4	3,845.68	1/4	3,487.75	1/4	3,129.82
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,908.94	1/2	4,553.40	1/2	4,196.16	1/2	3,838.23	1/2	3,480.30	1/2	3,122.37
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,901.54	3/4	4,545.97	3/4	4,188.70	3/4	3,830.77	3/4	3,472.84	3/4	3,114.91
6	6	6	6	6	6	6	6	6	4,894.14	6	4,538.53	6	4,181.25	6	3,823.31	6	3,465.38	6	3,107.45
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,886.74	1/4	4,531.10	1/4	4,173.79	1/4	3,815.86	1/4	3,457.93	1/4	3,099.99
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,879.34	1/2	4,523.66	1/2	4,166.33	1/2	3,808.40	1/2	3,450.47	1/2	3,092.54
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,871.94	3/4	4,516.22	3/4	4,158.87	3/4	3,800.94	3/4	3,443.01	3/4	3,085.08
7	7	7	7	7	7	7	7	7	4,864.54	7	4,508.79	7	4,151.42	7	3,793.49	7	3,435.56	7	3,077.62
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,857.14	1/4	4,501.35	1/4	4,143.96	1/4	3,786.03	1/4	3,428.10	1/4	3,070.17
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,849.74	1/2	4,493.92	1/2	4,136.50	1/2	3,778.57	1/2	3,420.64	1/2	3,062.71
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,842.34	3/4	4,486.48	3/4	4,129.05	3/4	3,771.12	3/4	3,413.18	3/4	3,055.25
8	8	8	8	8	8	8	8	8	4,834.94	8	4,479.05	8	4,121.59	8	3,763.66	8	3,405.73	8	3,047.80
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,827.55	1/4	4,471.61	1/4	4,114.13	1/4	3,756.20	1/4	3,398.27	1/4	3,040.34
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,820.15	1/2	4,464.18	1/2	4,106.68	1/2	3,748.75	1/2	3,390.81	1/2	3,032.88
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,812.75	3/4	4,456.74	3/4	4,099.22	3/4	3,741.29	3/4	3,383.36	3/4	3,025.43
9	9	9	9	9	9	9	9	9	4,805.36	9	4,449.31	9	4,091.76	9	3,733.83	9	3,375.90	9	3,017.97
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,797.96	1/4	4,441.87	1/4	4,084.31	1/4	3,726.37	1/4	3,368.44	1/4	3,010.51
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,790.57	1/2	4,434.44	1/2	4,076.85	1/2	3,718.92	1/2	3,360.99	1/2	3,003.06
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,783.17	3/4	4,427.00	3/4	4,069.39	3/4	3,711.46	3/4	3,353.53	3/4	2,995.60
10	10	10	10	10	10	10	10	10	4,775.78	10	4,419.57	10	4,061.94	10	3,704.00	10	3,346.07	10	2,988.14
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,768.38	1/4	4,412.13	1/4	4,054.48	1/4	3,696.55	1/4	3,338.62	1/4	2,980.68
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,760.99	1/2	4,404.70	1/2	4,047.02	1/2	3,689.09	1/2	3,331.16	1/2	2,973.23
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,753.59	3/4	4,397.26	3/4	4,039.56	3/4	3,681.63	3/4	3,323.70	3/4	2,965.77
11	11	11	11	11	11	11	11	11	4,746.19	11	4,389.83	11	4,032.11	11	3,674.18	11	3,316.25	11	2,958.31
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,738.80	1/4	4,382.39	1/4	4,024.65	1/4	3,666.72	1/4	3,308.79	1/4	2,950.86
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,731.40	1/2	4,374.96	1/2	4,017.19	1/2	3,659.26	1/2	3,301.33	1/2	2,943.40
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,724.01	3/4	4,367.52	3/4	4,009.74	3/4	3,651.81	3/4	3,293.87	3/4	2,935.94

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH HERMETIC DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 2092  
 Pearland, Texas 77588  
<http://www.pmacorp.net>



# BARGE "KIRBY 29170"

## 1 STBD ULLAGE TABLE HERMETIC

GAUGE HEIGHT 17'-04"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMI 30056"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,570.39	0	2,212.26	0	1,854.14	0	1,496.02	0	1,137.89	0	780.25	0	423.58	0	102.41	0		0	
1/4	2,562.92	1/4	2,204.80	1/4	1,846.68	1/4	1,488.55	1/4	1,130.43	1/4	772.80	1/4	416.41	1/4	96.29	1/4		1/4	
1/2	2,555.46	1/2	2,197.34	1/2	1,839.22	1/2	1,481.09	1/2	1,122.97	1/2	765.34	1/2	409.23	1/2	90.17	1/2		1/2	
3/4	2,548.00	3/4	2,189.88	3/4	1,831.76	3/4	1,473.63	3/4	1,115.51	3/4	757.88	3/4	402.06	3/4	84.05	3/4		3/4	
1	2,540.54	1	2,182.42	1	1,824.30	1	1,466.17	1	1,108.05	1	750.43	1	394.88	1	77.93	1		1	
1/4	2,533.08	1/4	2,174.96	1/4	1,816.83	1/4	1,458.71	1/4	1,100.59	1/4	742.96	1/4	387.79	1/4	71.90	1/4		1/4	
1/2	2,525.62	1/2	2,167.50	1/2	1,809.37	1/2	1,451.25	1/2	1,093.13	1/2	735.50	1/2	380.71	1/2	65.87	1/2		1/2	
3/4	2,518.16	3/4	2,160.04	3/4	1,801.91	3/4	1,443.79	3/4	1,085.67	3/4	728.04	3/4	373.62	3/4	59.84	3/4		3/4	
2	2,510.70	2	2,152.58	2	1,794.45	2	1,436.33	2	1,078.21	2	720.58	2	366.53	2	53.81	2		2	
1/4	2,503.24	1/4	2,145.11	1/4	1,786.99	1/4	1,428.87	1/4	1,070.75	1/4	713.12	1/4	359.54	1/4	48.56	1/4		1/4	
1/2	2,495.78	1/2	2,137.65	1/2	1,779.53	1/2	1,421.41	1/2	1,063.29	1/2	705.66	1/2	352.54	1/2	43.32	1/2		1/2	
3/4	2,488.32	3/4	2,130.19	3/4	1,772.07	3/4	1,413.95	3/4	1,055.84	3/4	698.20	3/4	345.54	3/4	38.08	3/4		3/4	
3	2,480.85	3	2,122.73	3	1,764.61	3	1,406.49	3	1,048.38	3	690.74	3	338.54	3	32.83	3		3	
1/4	2,473.39	1/4	2,115.27	1/4	1,757.15	1/4	1,399.02	1/4	1,040.93	1/4	683.28	1/4	331.63	1/4	29.31	1/4		1/4	
1/2	2,465.93	1/2	2,107.81	1/2	1,749.69	1/2	1,391.56	1/2	1,033.47	1/2	675.82	1/2	324.72	1/2	25.78	1/2		1/2	
3/4	2,458.47	3/4	2,100.35	3/4	1,742.23	3/4	1,384.10	3/4	1,026.02	3/4	668.36	3/4	317.81	3/4	22.26	3/4		3/4	
4	2,451.01	4	2,092.89	4	1,734.76	4	1,376.64	4	1,018.56	4	660.90	4	310.89	4	18.73	4		4	
1/4	2,443.55	1/4	2,085.43	1/4	1,727.30	1/4	1,369.18	1/4	1,011.12	1/4	653.44	1/4	304.07	1/4		1/4		1/4	
1/2	2,436.09	1/2	2,077.97	1/2	1,719.84	1/2	1,361.72	1/2	1,003.67	1/2	645.98	1/2	297.25	1/2		1/2		1/2	
3/4	2,428.63	3/4	2,070.51	3/4	1,712.38	3/4	1,354.26	3/4	996.22	3/4	638.52	3/4	290.43	3/4		3/4		3/4	
5	2,421.17	5	2,063.04	5	1,704.92	5	1,346.80	5	988.77	5	631.06	5	283.60	5		5		5	
1/4	2,413.71	1/4	2,055.58	1/4	1,697.46	1/4	1,339.34	1/4	981.32	1/4	623.60	1/4	276.87	1/4		1/4		1/4	
1/2	2,406.25	1/2	2,048.12	1/2	1,690.00	1/2	1,331.88	1/2	973.88	1/2	616.13	1/2	270.13	1/2		1/2		1/2	
3/4	2,398.78	3/4	2,040.66	3/4	1,682.54	3/4	1,324.42	3/4	966.43	3/4	608.67	3/4	263.40	3/4		3/4		3/4	
6	2,391.32	6	2,033.20	6	1,675.08	6	1,316.95	6	958.98	6	601.21	6	256.66	6		6		6	
1/4	2,383.86	1/4	2,025.74	1/4	1,667.62	1/4	1,309.49	1/4	951.54	1/4	593.75	1/4	250.02	1/4		1/4		1/4	
1/2	2,376.40	1/2	2,018.28	1/2	1,660.16	1/2	1,302.03	1/2	944.09	1/2	586.29	1/2	243.37	1/2		1/2		1/2	
3/4	2,368.94	3/4	2,010.82	3/4	1,652.69	3/4	1,294.57	3/4	936.64	3/4	578.83	3/4	236.72	3/4		3/4		3/4	
7	2,361.48	7	2,003.36	7	1,645.23	7	1,287.11	7	929.19	7	571.37	7	230.07	7		7		7	
1/4	2,354.02	1/4	1,995.90	1/4	1,637.77	1/4	1,279.65	1/4	921.75	1/4	563.92	1/4	223.52	1/4		1/4		1/4	
1/2	2,346.56	1/2	1,988.44	1/2	1,630.31	1/2	1,272.19	1/2	914.30	1/2	556.46	1/2	216.96	1/2		1/2		1/2	
3/4	2,339.10	3/4	1,980.97	3/4	1,622.85	3/4	1,264.73	3/4	906.85	3/4	549.01	3/4	210.40	3/4		3/4		3/4	
8	2,331.64	8	1,973.51	8	1,615.39	8	1,257.27	8	899.41	8	541.55	8	203.84	8		8		8	
1/4	2,324.18	1/4	1,966.05	1/4	1,607.93	1/4	1,249.81	1/4	891.96	1/4	534.10	1/4	197.37	1/4		1/4		1/4	
1/2	2,316.71	1/2	1,958.59	1/2	1,600.47	1/2	1,242.35	1/2	884.51	1/2	526.64	1/2	190.90	1/2		1/2		1/2	
3/4	2,309.25	3/4	1,951.13	3/4	1,593.01	3/4	1,234.88	3/4	877.07	3/4	519.19	3/4	184.42	3/4		3/4		3/4	
9	2,301.79	9	1,943.67	9	1,585.55	9	1,227.42	9	869.62	9	511.74	9	177.95	9		9		9	
1/4	2,294.33	1/4	1,936.21	1/4	1,578.09	1/4	1,219.96	1/4	862.17	1/4	504.31	1/4	171.57	1/4		1/4		1/4	
1/2	2,286.87	1/2	1,928.75	1/2	1,570.62	1/2	1,212.50	1/2	854.72	1/2	496.89	1/2	165.19	1/2		1/2		1/2	
3/4	2,279.41	3/4	1,921.29	3/4	1,563.16	3/4	1,205.04	3/4	847.28	3/4	489.46	3/4	158.80	3/4		3/4		3/4	
10	2,271.95	10	1,913.83	10	1,555.70	10	1,197.58	10	839.83	10	482.04	10	152.42	10		10		10	
1/4	2,264.49	1/4	1,906.37	1/4	1,548.24	1/4	1,190.12	1/4	832.38	1/4	474.68	1/4	146.12	1/4		1/4		1/4	
1/2	2,257.03	1/2	1,898.90	1/2	1,540.78	1/2	1,182.66	1/2	824.94	1/2	467.33	1/2	139.83	1/2		1/2		1/2	
3/4	2,249.57	3/4	1,891.44	3/4	1,533.32	3/4	1,175.20	3/4	817.49	3/4	459.98	3/4	133.53	3/4		3/4		3/4	
11	2,242.11	11	1,883.98	11	1,525.86	11	1,167.74	11	810.04	11	452.63	11	127.24	11		11		11	
1/4	2,234.64	1/4	1,876.52	1/4	1,518.40	1/4	1,160.28	1/4	802.60	1/4	445.37	1/4	121.03	1/4		1/4		1/4	
1/2	2,227.18	1/2	1,869.06	1/2	1,510.94	1/2	1,152.81	1/2	795.15	1/2	438.11	1/2	114.82	1/2		1/2		1/2	
3/4	2,219.72	3/4	1,861.60	3/4	1,503.48	3/4	1,145.35	3/4	787.70	3/4	430.84	3/4	108.62	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/13/2014 SW  
RECALCULATED: 05/13/2024 JS  
NAME CHANGE: 05/13/2024 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 05/2024

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
<http://www.pmacorp.net>



# BARGE "KIRBY 29170"

## 2 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMI 30056"

GAUGE HEIGHT 17'-04"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	0	0	0	0	0	0	4,782.62	0	4,424.87	0	4,065.83	0	3,706.68	0	3,347.53	0	2,988.38
1/4		1/4		1/4		1/4		1/4	4,775.20	1/4	4,417.41	1/4	4,058.35	1/4	3,699.20	1/4	3,340.05	1/4	2,980.89
1/2		1/2		1/2		1/2		1/2	4,767.78	1/2	4,409.95	1/2	4,050.87	1/2	3,691.72	1/2	3,332.57	1/2	2,973.41
3/4		3/4		3/4		3/4		3/4	4,760.36	3/4	4,402.49	3/4	4,043.39	3/4	3,684.23	3/4	3,325.08	3/4	2,965.92
1	1	1	1	1	1	1	1	1	4,752.94	1	4,395.03	1	4,035.90	1	3,676.75	1	3,317.60	1	2,958.43
1/4		1/4		1/4		1/4	5,081.77	1/4	4,745.52	1/4	4,387.55	1/4	4,028.42	1/4	3,669.27	1/4	3,310.12	1/4	2,950.95
1/2		1/2		1/2		1/2	5,077.29	1/2	4,738.10	1/2	4,380.08	1/2	4,020.94	1/2	3,661.79	1/2	3,302.64	1/2	2,943.46
3/4		3/4		3/4		3/4	5,072.80	3/4	4,730.68	3/4	4,372.60	3/4	4,013.46	3/4	3,654.31	3/4	3,295.16	3/4	2,935.97
2	2	2	2	2	2	2	5,068.32	2	4,723.26	2	4,365.12	2	4,005.97	2	3,646.82	2	3,287.67	2	2,928.49
1/4		1/4		1/4		1/4	5,062.77	1/4	4,715.81	1/4	4,357.64	1/4	3,998.49	1/4	3,639.34	1/4	3,280.19	1/4	2,921.00
1/2		1/2		1/2		1/2	5,057.21	1/2	4,708.36	1/2	4,350.16	1/2	3,991.01	1/2	3,631.86	1/2	3,272.71	1/2	2,913.52
3/4		3/4		3/4		3/4	5,051.66	3/4	4,700.91	3/4	4,342.68	3/4	3,983.53	3/4	3,624.38	3/4	3,265.23	3/4	2,906.03
3	3	3	3	3	3	3	5,046.11	3	4,693.46	3	4,335.20	3	3,976.04	3	3,616.89	3	3,257.74	3	2,898.54
1/4		1/4		1/4		1/4	5,039.48	1/4	4,685.99	1/4	4,327.71	1/4	3,968.56	1/4	3,609.41	1/4	3,250.26	1/4	2,891.06
1/2		1/2		1/2		1/2	5,032.86	1/2	4,678.53	1/2	4,320.23	1/2	3,961.08	1/2	3,601.93	1/2	3,242.78	1/2	2,883.57
3/4		3/4		3/4		3/4	5,026.24	3/4	4,671.07	3/4	4,312.75	3/4	3,953.60	3/4	3,594.45	3/4	3,235.30	3/4	2,876.08
4	4	4	4	4	4	4	5,019.62	4	4,663.61	4	4,305.27	4	3,946.12	4	3,586.97	4	3,227.81	4	2,868.60
1/4		1/4		1/4		1/4	5,012.33	1/4	4,656.15	1/4	4,297.78	1/4	3,938.63	1/4	3,579.48	1/4	3,220.33	1/4	2,861.11
1/2		1/2		1/2		1/2	5,005.04	1/2	4,648.69	1/2	4,290.30	1/2	3,931.15	1/2	3,572.00	1/2	3,212.85	1/2	2,853.63
3/4		3/4		3/4		3/4	4,997.75	3/4	4,641.23	3/4	4,282.82	3/4	3,923.67	3/4	3,564.52	3/4	3,205.37	3/4	2,846.14
5	5	5	5	5	5	5	4,990.46	5	4,633.77	5	4,275.34	5	3,916.19	5	3,557.04	5	3,197.89	5	2,838.65
1/4		1/4		1/4		1/4	4,983.03	1/4	4,626.31	1/4	4,267.85	1/4	3,908.70	1/4	3,549.55	1/4	3,190.40	1/4	2,831.17
1/2		1/2		1/2		1/2	4,975.61	1/2	4,618.85	1/2	4,260.37	1/2	3,901.22	1/2	3,542.07	1/2	3,182.92	1/2	2,823.68
3/4		3/4		3/4		3/4	4,968.18	3/4	4,611.39	3/4	4,252.89	3/4	3,893.74	3/4	3,534.59	3/4	3,175.44	3/4	2,816.19
6	6	6	6	6	6	6	4,960.76	6	4,603.93	6	4,245.41	6	3,886.26	6	3,527.11	6	3,167.96	6	2,808.71
1/4		1/4		1/4		1/4	4,953.33	1/4	4,596.47	1/4	4,237.93	1/4	3,878.77	1/4	3,519.62	1/4	3,160.47	1/4	2,801.22
1/2		1/2		1/2		1/2	4,945.91	1/2	4,589.01	1/2	4,230.44	1/2	3,871.29	1/2	3,512.14	1/2	3,152.99	1/2	2,793.73
3/4		3/4		3/4		3/4	4,938.48	3/4	4,581.55	3/4	4,222.96	3/4	3,863.81	3/4	3,504.66	3/4	3,145.51	3/4	2,786.25
7	7	7	7	7	7	7	4,931.06	7	4,574.09	7	4,215.48	7	3,856.33	7	3,497.18	7	3,138.03	7	2,778.76
1/4		1/4		1/4		1/4	4,923.63	1/4	4,566.62	1/4	4,208.00	1/4	3,848.85	1/4	3,489.70	1/4	3,130.54	1/4	2,771.28
1/2		1/2		1/2		1/2	4,916.21	1/2	4,559.16	1/2	4,200.51	1/2	3,841.36	1/2	3,482.21	1/2	3,123.06	1/2	2,763.79
3/4		3/4		3/4		3/4	4,908.78	3/4	4,551.70	3/4	4,193.03	3/4	3,833.88	3/4	3,474.73	3/4	3,115.58	3/4	2,756.30
8	8	8	8	8	8	8	4,901.36	8	4,544.24	8	4,185.55	8	3,826.40	8	3,467.25	8	3,108.10	8	2,748.82
1/4		1/4		1/4		1/4	4,893.94	1/4	4,536.78	1/4	4,178.07	1/4	3,818.92	1/4	3,459.77	1/4	3,100.62	1/4	2,741.33
1/2		1/2		1/2		1/2	4,886.52	1/2	4,529.32	1/2	4,170.58	1/2	3,811.43	1/2	3,452.28	1/2	3,093.13	1/2	2,733.84
3/4		3/4		3/4		3/4	4,879.09	3/4	4,521.86	3/4	4,163.10	3/4	3,803.95	3/4	3,444.80	3/4	3,085.65	3/4	2,726.36
9	9	9	9	9	9	9	4,871.67	9	4,514.40	9	4,155.62	9	3,796.47	9	3,437.32	9	3,078.17	9	2,718.87
1/4		1/4		1/4		1/4	4,864.25	1/4	4,506.94	1/4	4,148.14	1/4	3,788.99	1/4	3,429.84	1/4	3,070.69	1/4	2,711.39
1/2		1/2		1/2		1/2	4,856.83	1/2	4,499.48	1/2	4,140.66	1/2	3,781.50	1/2	3,422.35	1/2	3,063.20	1/2	2,703.90
3/4		3/4		3/4		3/4	4,849.41	3/4	4,492.02	3/4	4,133.17	3/4	3,774.02	3/4	3,414.87	3/4	3,055.72	3/4	2,696.41
10	10	10	10	10	10	10	4,841.99	10	4,484.56	10	4,125.69	10	3,766.54	10	3,407.39	10	3,048.24	10	2,688.93
1/4		1/4		1/4		1/4	4,834.57	1/4	4,477.10	1/4	4,118.21	1/4	3,759.06	1/4	3,399.91	1/4	3,040.76	1/4	2,681.44
1/2		1/2		1/2		1/2	4,827.15	1/2	4,469.64	1/2	4,110.73	1/2	3,751.58	1/2	3,392.43	1/2	3,033.27	1/2	2,673.95
3/4		3/4		3/4		3/4	4,819.73	3/4	4,462.18	3/4	4,103.24	3/4	3,744.09	3/4	3,384.94	3/4	3,025.79	3/4	2,666.47
11	11	11	11	11	11	11	4,812.31	11	4,454.72	11	4,095.76	11	3,736.61	11	3,377.46	11	3,018.31	11	2,658.98
1/4		1/4		1/4		1/4	4,804.89	1/4	4,447.26	1/4	4,088.28	1/4	3,729.13	1/4	3,369.98	1/4	3,010.83	1/4	2,651.50
1/2		1/2		1/2		1/2	4,797.46	1/2	4,439.79	1/2	4,080.80	1/2	3,721.65	1/2	3,362.50	1/2	3,003.35	1/2	2,644.01
3/4		3/4		3/4		3/4	4,790.04	3/4	4,432.33	3/4	4,073.31	3/4	3,714.16	3/4	3,355.01	3/4	2,995.86	3/4	2,636.52

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH HERMETIC DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
 P.O. Box 2092  
 Pearland, Texas 77588  
<http://www.pmacorp.net>





# BARGE "KIRBY 29170"

## 2 PORT ULLAGE TABLE HERMETIC

GAUGE HEIGHT 17'-04"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMI 30056"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,629.04	0	2,269.69	0	1,910.35	0	1,551.01	0	1,191.67	0	846.40	0	487.37	0	128.04	0		0	
1/4	2,621.55	1/4	2,262.21	1/4	1,902.87	1/4	1,543.52	1/4	1,184.39	1/4	838.99	1/4	479.88	1/4	120.55	1/4		1/4	
1/2	2,614.06	1/2	2,254.72	1/2	1,895.38	1/2	1,536.04	1/2	1,177.12	1/2	831.58	1/2	472.40	1/2	113.07	1/2		1/2	
3/4	2,606.58	3/4	2,247.23	3/4	1,887.89	3/4	1,528.55	3/4	1,169.84	3/4	824.17	3/4	464.91	3/4	105.58	3/4		3/4	
1	2,599.09	1	2,239.75	1	1,880.41	1	1,521.06	1	1,162.57	1	816.76	1	457.43	1	98.09	1		1	
1/4	2,591.60	1/4	2,232.26	1/4	1,872.92	1/4	1,513.58	1/4	1,155.37	1/4	809.27	1/4	449.94	1/4	90.61	1/4		1/4	
1/2	2,584.12	1/2	2,224.78	1/2	1,865.43	1/2	1,506.09	1/2	1,148.16	1/2	801.79	1/2	442.45	1/2	83.12	1/2		1/2	
3/4	2,576.63	3/4	2,217.29	3/4	1,857.95	3/4	1,498.60	3/4	1,140.96	3/4	794.30	3/4	434.97	3/4	75.64	3/4		3/4	
2	2,569.15	2	2,209.80	2	1,850.46	2	1,491.12	2	1,133.76	2	786.81	2	427.48	2	68.15	2		2	
1/4	2,561.66	1/4	2,202.32	1/4	1,842.97	1/4	1,483.63	1/4	1,126.56	1/4	779.33	1/4	420.00	1/4	61.36	1/4		1/4	
1/2	2,554.17	1/2	2,194.83	1/2	1,835.49	1/2	1,476.15	1/2	1,119.37	1/2	771.84	1/2	412.51	1/2	54.58	1/2		1/2	
3/4	2,546.69	3/4	2,187.34	3/4	1,828.00	3/4	1,468.66	3/4	1,112.18	3/4	764.36	3/4	405.02	3/4	47.80	3/4		3/4	
3	2,539.20	3	2,179.86	3	1,820.52	3	1,461.17	3	1,104.99	3	756.87	3	397.54	3	41.01	3		3	
1/4	2,531.71	1/4	2,172.37	1/4	1,813.03	1/4	1,453.69	1/4	1,097.80	1/4	749.38	1/4	390.05	1/4	35.87	1/4		1/4	
1/2	2,524.23	1/2	2,164.89	1/2	1,805.54	1/2	1,446.20	1/2	1,090.61	1/2	741.90	1/2	382.57	1/2	30.72	1/2		1/2	
3/4	2,516.74	3/4	2,157.40	3/4	1,798.06	3/4	1,438.71	3/4	1,083.42	3/4	734.41	3/4	375.08	3/4	25.57	3/4		3/4	
4	2,509.26	4	2,149.91	4	1,790.57	4	1,431.23	4	1,076.23	4	726.93	4	367.59	4	20.43	4		4	
1/4	2,501.77	1/4	2,142.43	1/4	1,783.08	1/4	1,423.74	1/4	1,069.05	1/4	719.44	1/4	360.11	1/4		1/4		1/4	
1/2	2,494.28	1/2	2,134.94	1/2	1,775.60	1/2	1,416.26	1/2	1,061.86	1/2	711.95	1/2	352.62	1/2		1/2		1/2	
3/4	2,486.80	3/4	2,127.45	3/4	1,768.11	3/4	1,408.77	3/4	1,054.68	3/4	704.47	3/4	345.13	3/4		3/4		3/4	
5	2,479.31	5	2,119.97	5	1,760.63	5	1,401.28	5	1,047.50	5	696.98	5	337.65	5		5		5	
1/4	2,471.82	1/4	2,112.48	1/4	1,753.14	1/4	1,393.80	1/4	1,040.31	1/4	689.50	1/4	330.16	1/4		1/4		1/4	
1/2	2,464.34	1/2	2,105.00	1/2	1,745.65	1/2	1,386.31	1/2	1,033.13	1/2	682.01	1/2	322.68	1/2		1/2		1/2	
3/4	2,456.85	3/4	2,097.51	3/4	1,738.17	3/4	1,378.82	3/4	1,025.95	3/4	674.52	3/4	315.19	3/4		3/4		3/4	
6	2,449.37	6	2,090.02	6	1,730.68	6	1,371.34	6	1,018.77	6	667.04	6	307.70	6		6		6	
1/4	2,441.88	1/4	2,082.54	1/4	1,723.19	1/4	1,363.85	1/4	1,011.59	1/4	659.55	1/4	300.22	1/4		1/4		1/4	
1/2	2,434.39	1/2	2,075.05	1/2	1,715.71	1/2	1,356.37	1/2	1,004.40	1/2	652.06	1/2	292.73	1/2		1/2		1/2	
3/4	2,426.91	3/4	2,067.56	3/4	1,708.22	3/4	1,348.88	3/4	997.22	3/4	644.58	3/4	285.25	3/4		3/4		3/4	
7	2,419.42	7	2,060.08	7	1,700.74	7	1,341.39	7	990.04	7	637.09	7	277.76	7		7		7	
1/4	2,411.93	1/4	2,052.59	1/4	1,693.25	1/4	1,333.91	1/4	982.86	1/4	629.61	1/4	270.27	1/4		1/4		1/4	
1/2	2,404.45	1/2	2,045.10	1/2	1,685.76	1/2	1,326.42	1/2	975.68	1/2	622.12	1/2	262.79	1/2		1/2		1/2	
3/4	2,396.96	3/4	2,037.62	3/4	1,678.28	3/4	1,318.93	3/4	968.49	3/4	614.63	3/4	255.30	3/4		3/4		3/4	
8	2,389.47	8	2,030.13	8	1,670.79	8	1,311.45	8	961.31	8	607.15	8	247.82	8		8		8	
1/4	2,381.99	1/4	2,022.65	1/4	1,663.30	1/4	1,303.96	1/4	954.13	1/4	599.66	1/4	240.33	1/4		1/4		1/4	
1/2	2,374.50	1/2	2,015.16	1/2	1,655.82	1/2	1,296.47	1/2	946.95	1/2	592.18	1/2	232.84	1/2		1/2		1/2	
3/4	2,367.02	3/4	2,007.67	3/4	1,648.33	3/4	1,288.99	3/4	939.77	3/4	584.69	3/4	225.36	3/4		3/4		3/4	
9	2,359.53	9	2,000.19	9	1,640.84	9	1,281.50	9	932.58	9	577.20	9	217.87	9		9		9	
1/4	2,352.04	1/4	1,992.70	1/4	1,633.36	1/4	1,274.02	1/4	925.40	1/4	569.72	1/4	210.38	1/4		1/4		1/4	
1/2	2,344.56	1/2	1,985.21	1/2	1,625.87	1/2	1,266.53	1/2	918.22	1/2	562.23	1/2	202.90	1/2		1/2		1/2	
3/4	2,337.07	3/4	1,977.73	3/4	1,618.39	3/4	1,259.04	3/4	911.04	3/4	554.75	3/4	195.41	3/4		3/4		3/4	
10	2,329.58	10	1,970.24	10	1,610.90	10	1,251.56	10	903.86	10	547.26	10	187.93	10		10		10	
1/4	2,322.10	1/4	1,962.76	1/4	1,603.41	1/4	1,244.07	1/4	896.67	1/4	539.77	1/4	180.44	1/4		1/4		1/4	
1/2	2,314.61	1/2	1,955.27	1/2	1,595.93	1/2	1,236.58	1/2	889.49	1/2	532.29	1/2	172.95	1/2		1/2		1/2	
3/4	2,307.13	3/4	1,947.78	3/4	1,588.44	3/4	1,229.10	3/4	882.31	3/4	524.80	3/4	165.47	3/4		3/4		3/4	
11	2,299.64	11	1,940.30	11	1,580.95	11	1,221.61	11	875.13	11	517.32	11	157.98	11		11		11	
1/4	2,292.15	1/4	1,932.81	1/4	1,573.47	1/4	1,214.13	1/4	867.95	1/4	509.83	1/4	150.50	1/4		1/4		1/4	
1/2	2,284.67	1/2	1,925.32	1/2	1,565.98	1/2	1,206.64	1/2	860.76	1/2	502.34	1/2	143.01	1/2		1/2		1/2	
3/4	2,277.18	3/4	1,917.84	3/4	1,558.50	3/4	1,199.15	3/4	853.58	3/4	494.86	3/4	135.52	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/13/2014 SW  
RECALCULATED: 05/13/2024 JS  
NAME CHANGE: 05/13/2024 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 05/2024

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
<http://www.dmacorp.net>



# BARGE "KIRBY 29170"

## 2 STBD ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMI 30056"

GAUGE HEIGHT 17'-04"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH HERMETIC DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
 P.O. Box 2092  
 Pearland, Texas 77588  
<http://www.pmacorp.net>





# BARGE "KIRBY 29170"

**2 STBD  
ULLAGE TABLE  
HERMETIC**

**GAUGE HEIGHT 17'-04"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMI 30056"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,642.96	0	2,283.61	0	1,924.27	0	1,564.93	0	1,205.59	0	846.69	0	487.37	0	128.04	0		0	
1/4	2,635.47	1/4	2,276.13	1/4	1,916.79	1/4	1,557.44	1/4	1,198.10	1/4	839.21	1/4	479.88	1/4	120.55	1/4		1/4	
1/2	2,627.98	1/2	2,268.64	1/2	1,909.30	1/2	1,549.96	1/2	1,190.61	1/2	831.72	1/2	472.40	1/2	113.07	1/2		1/2	
3/4	2,620.50	3/4	2,261.16	3/4	1,901.81	3/4	1,542.47	3/4	1,183.13	3/4	824.24	3/4	464.91	3/4	105.58	3/4		3/4	
1	2,613.01	1	2,253.67	1	1,894.33	1	1,534.98	1	1,175.64	1	816.76	1	457.43	1	98.09	1		1	
1/4	2,605.53	1/4	2,246.18	1/4	1,886.84	1/4	1,527.50	1/4	1,168.16	1/4	809.27	1/4	449.94	1/4	90.61	1/4		1/4	
1/2	2,598.04	1/2	2,238.70	1/2	1,879.35	1/2	1,520.01	1/2	1,160.67	1/2	801.79	1/2	442.45	1/2	83.12	1/2		1/2	
3/4	2,590.55	3/4	2,231.21	3/4	1,871.87	3/4	1,512.53	3/4	1,153.18	3/4	794.30	3/4	434.97	3/4	75.63	3/4		3/4	
2	2,583.07	2	2,223.72	2	1,864.38	2	1,505.04	2	1,145.70	2	786.81	2	427.48	2	68.15	2		2	
1/4	2,575.58	1/4	2,216.24	1/4	1,856.90	1/4	1,497.55	1/4	1,138.21	1/4	779.33	1/4	420.00	1/4	61.36	1/4		1/4	
1/2	2,568.09	1/2	2,208.75	1/2	1,849.41	1/2	1,490.07	1/2	1,130.73	1/2	771.84	1/2	412.51	1/2	54.58	1/2		1/2	
3/4	2,560.61	3/4	2,201.27	3/4	1,841.92	3/4	1,482.58	3/4	1,123.25	3/4	764.36	3/4	405.02	3/4	47.80	3/4		3/4	
3	2,553.12	3	2,193.78	3	1,834.44	3	1,475.09	3	1,115.77	3	756.87	3	397.54	3	41.01	3		3	
1/4	2,545.64	1/4	2,186.29	1/4	1,826.95	1/4	1,467.61	1/4	1,108.29	1/4	749.38	1/4	390.05	1/4	35.87	1/4		1/4	
1/2	2,538.15	1/2	2,178.81	1/2	1,819.46	1/2	1,460.12	1/2	1,100.81	1/2	741.90	1/2	382.56	1/2	30.72	1/2		1/2	
3/4	2,530.66	3/4	2,171.32	3/4	1,811.98	3/4	1,452.64	3/4	1,093.33	3/4	734.41	3/4	375.08	3/4	25.57	3/4		3/4	
4	2,523.18	4	2,163.83	4	1,804.49	4	1,445.15	4	1,085.85	4	726.93	4	367.59	4	20.43	4		4	
1/4	2,515.69	1/4	2,156.35	1/4	1,797.01	1/4	1,437.66	1/4	1,078.37	1/4	719.44	1/4	360.11	1/4		1/4		1/4	
1/2	2,508.20	1/2	2,148.86	1/2	1,789.52	1/2	1,430.18	1/2	1,070.90	1/2	711.95	1/2	352.62	1/2		1/2		1/2	
3/4	2,500.72	3/4	2,141.37	3/4	1,782.03	3/4	1,422.69	3/4	1,063.42	3/4	704.47	3/4	345.13	3/4		3/4		3/4	
5	2,493.23	5	2,133.89	5	1,774.55	5	1,415.20	5	1,055.95	5	696.98	5	337.65	5		5		5	
1/4	2,485.74	1/4	2,126.40	1/4	1,767.06	1/4	1,407.72	1/4	1,048.47	1/4	689.49	1/4	330.16	1/4		1/4		1/4	
1/2	2,478.26	1/2	2,118.92	1/2	1,759.57	1/2	1,400.23	1/2	1,041.00	1/2	682.01	1/2	322.68	1/2		1/2		1/2	
3/4	2,470.77	3/4	2,111.43	3/4	1,752.09	3/4	1,392.74	3/4	1,033.53	3/4	674.52	3/4	315.19	3/4		3/4		3/4	
6	2,463.29	6	2,103.94	6	1,744.60	6	1,385.26	6	1,026.05	6	667.04	6	307.70	6		6		6	
1/4	2,455.80	1/4	2,096.46	1/4	1,737.11	1/4	1,377.77	1/4	1,018.58	1/4	659.55	1/4	300.22	1/4		1/4		1/4	
1/2	2,448.31	1/2	2,088.97	1/2	1,729.63	1/2	1,370.29	1/2	1,011.11	1/2	652.06	1/2	292.73	1/2		1/2		1/2	
3/4	2,440.83	3/4	2,081.48	3/4	1,722.14	3/4	1,362.80	3/4	1,003.63	3/4	644.58	3/4	285.25	3/4		3/4		3/4	
7	2,433.34	7	2,074.00	7	1,714.66	7	1,355.31	7	996.16	7	637.09	7	277.76	7		7		7	
1/4	2,425.85	1/4	2,066.51	1/4	1,707.17	1/4	1,347.83	1/4	988.69	1/4	629.61	1/4	270.27	1/4		1/4		1/4	
1/2	2,418.37	1/2	2,059.03	1/2	1,699.68	1/2	1,340.34	1/2	981.21	1/2	622.12	1/2	262.79	1/2		1/2		1/2	
3/4	2,410.88	3/4	2,051.54	3/4	1,692.20	3/4	1,332.85	3/4	973.74	3/4	614.63	3/4	255.30	3/4		3/4		3/4	
8	2,403.40	8	2,044.05	8	1,684.71	8	1,325.37	8	966.26	8	607.15	8	247.81	8		8		8	
1/4	2,395.91	1/4	2,036.57	1/4	1,677.22	1/4	1,317.88	1/4	958.79	1/4	599.66	1/4	240.33	1/4		1/4		1/4	
1/2	2,388.42	1/2	2,029.08	1/2	1,669.74	1/2	1,310.40	1/2	951.32	1/2	592.18	1/2	232.84	1/2		1/2		1/2	
3/4	2,380.94	3/4	2,021.59	3/4	1,662.25	3/4	1,302.91	3/4	943.84	3/4	584.69	3/4	225.36	3/4		3/4		3/4	
9	2,373.45	9	2,014.11	9	1,654.77	9	1,295.42	9	936.37	9	577.20	9	217.87	9		9		9	
1/4	2,365.96	1/4	2,006.62	1/4	1,647.28	1/4	1,287.94	1/4	928.90	1/4	569.72	1/4	210.38	1/4		1/4		1/4	
1/2	2,358.48	1/2	1,999.14	1/2	1,639.79	1/2	1,280.45	1/2	921.42	1/2	562.23	1/2	202.90	1/2		1/2		1/2	
3/4	2,350.99	3/4	1,991.65	3/4	1,632.31	3/4	1,272.96	3/4	913.95	3/4	554.75	3/4	195.41	3/4		3/4		3/4	
10	2,343.50	10	1,984.16	10	1,624.82	10	1,265.48	10	906.48	10	547.26	10	187.93	10		10		10	
1/4	2,336.02	1/4	1,976.68	1/4	1,617.33	1/4	1,257.99	1/4	899.00	1/4	539.77	1/4	180.44	1/4		1/4		1/4	
1/2	2,328.53	1/2	1,969.19	1/2	1,609.85	1/2	1,250.51	1/2	891.53	1/2	532.29	1/2	172.95	1/2		1/2		1/2	
3/4	2,321.05	3/4	1,961.70	3/4	1,602.36	3/4	1,243.02	3/4	884.06	3/4	524.80	3/4	165.47	3/4		3/4		3/4	
11	2,313.56	11	1,954.22	11	1,594.87	11	1,235.53	11	876.58	11	517.31	11	157.98	11		11		11	
1/4	2,306.07	1/4	1,946.73	1/4	1,587.39	1/4	1,228.05	1/4	869.11	1/4	509.83	1/4	150.50	1/4		1/4		1/4	
1/2	2,298.59	1/2	1,939.24	1/2	1,579.90	1/2	1,220.56	1/2	861.64	1/2	502.34	1/2	143.01	1/2		1/2		1/2	
3/4	2,291.10	3/4	1,931.76	3/4	1,572.42	3/4	1,213.07	3/4	854.16	3/4	494.86	3/4	135.52	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/13/2014 SW  
RECALCULATED: 05/13/2024 JS  
NAME CHANGE: 05/13/2024 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 05/2024

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
<http://www.pmacorp.net>



# BARGE "KIRBY 29170"

## 3 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMI 30056"

GAUGE HEIGHT 17'-03 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	4,288.96	0	4,070.78	0	3,851.77	0	3,632.71	0	3,308.33	0	2,952.13		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,284.44	1/4	4,066.24	1/4	3,847.21	1/4	3,628.15	1/4	3,300.93	1/4	2,944.70		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,279.91	1/2	4,061.69	1/2	3,842.64	1/2	3,623.58	1/2	3,293.53	1/2	2,937.27		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,473.31	3/4	4,275.39	3/4	4,057.13	3/4	3,838.08	3/4	3,619.02	3/4	3,286.12	3/4	2,929.85
1	1	1	1	1	1	1	4,471.46	1	4,270.87	1	4,052.57	1	3,833.51	1	3,614.46	1	3,278.72	1	2,922.42
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,469.62	1/4	4,266.35	1/4	4,048.01	1/4	3,828.95	1/4	3,609.89	1/4	3,271.32	1/4	2,914.99
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,467.77	1/2	4,261.83	1/2	4,043.45	1/2	3,824.39	1/2	3,605.33	1/2	3,263.91	1/2	2,907.57
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,465.11	3/4	4,257.28	3/4	4,038.88	3/4	3,819.82	3/4	3,600.77	3/4	3,256.50	3/4	2,900.14
2	2	2	2	2	2	2	4,462.44	2	4,252.74	2	4,034.32	2	3,815.26	2	3,596.20	2	3,249.08	2	2,892.71
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,459.78	1/4	4,248.20	1/4	4,029.75	1/4	3,810.70	1/4	3,591.64	1/4	3,241.66	1/4	2,885.29
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,457.12	1/2	4,243.65	1/2	4,025.19	1/2	3,806.13	1/2	3,587.08	1/2	3,234.24	1/2	2,877.86
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,453.39	3/4	4,239.10	3/4	4,020.63	3/4	3,801.57	3/4	3,580.35	3/4	3,226.82	3/4	2,870.43
3	3	3	3	3	3	3	4,449.67	3	4,234.56	3	4,016.06	3	3,797.01	3	3,573.63	3	3,219.39	3	2,863.01
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,445.94	1/4	4,230.01	1/4	4,011.50	1/4	3,792.44	1/4	3,566.90	1/4	3,211.97	1/4	2,855.58
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,442.21	1/2	4,225.46	1/2	4,006.94	1/2	3,787.88	1/2	3,560.18	1/2	3,204.55	1/2	2,848.16
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,437.82	3/4	4,220.91	3/4	4,002.37	3/4	3,783.31	3/4	3,552.75	3/4	3,197.12	3/4	2,840.73
4	4	4	4	4	4	4	4,433.43	4	4,216.36	4	3,997.81	4	3,778.75	4	3,545.33	4	3,189.70	4	2,833.30
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,429.04	1/4	4,211.81	1/4	3,993.24	1/4	3,774.19	1/4	3,537.91	1/4	3,182.27	1/4	2,825.88
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,424.65	1/2	4,207.26	1/2	3,988.68	1/2	3,769.62	1/2	3,530.49	1/2	3,174.85	1/2	2,818.45
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,420.12	3/4	4,202.71	3/4	3,984.12	3/4	3,765.06	3/4	3,523.07	3/4	3,167.43	3/4	2,811.02
5	5	5	5	5	5	5	4,415.60	5	4,198.16	5	3,979.55	5	3,760.50	5	3,515.66	5	3,160.00	5	2,803.60
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,411.08	1/4	4,193.61	1/4	3,974.99	1/4	3,755.93	1/4	3,508.24	1/4	3,152.58	1/4	2,796.17
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,406.55	1/2	4,189.06	1/2	3,970.43	1/2	3,751.37	1/2	3,500.83	1/2	3,145.15	1/2	2,788.74
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,402.03	3/4	4,184.51	3/4	3,965.86	3/4	3,746.80	3/4	3,493.42	3/4	3,137.73	3/4	2,781.32
6	6	6	6	6	6	6	4,397.50	6	4,179.97	6	3,961.30	6	3,742.24	6	3,486.02	6	3,130.31	6	2,773.89
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,392.98	1/4	4,175.42	1/4	3,956.73	1/4	3,737.68	1/4	3,478.61	1/4	3,122.88	1/4	2,766.46
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,388.45	1/2	4,170.87	1/2	3,952.17	1/2	3,733.11	1/2	3,471.20	1/2	3,115.46	1/2	2,759.04
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,383.93	3/4	4,166.32	3/4	3,947.61	3/4	3,728.55	3/4	3,463.80	3/4	3,108.03	3/4	2,751.61
7	7	7	7	7	7	7	4,379.40	7	4,161.77	7	3,943.04	7	3,723.99	7	3,456.40	7	3,100.61	7	2,744.18
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,374.88	1/4	4,157.22	1/4	3,938.48	1/4	3,719.42	1/4	3,448.99	1/4	3,093.19	1/4	2,736.76
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,370.35	1/2	4,152.67	1/2	3,933.92	1/2	3,714.86	1/2	3,441.59	1/2	3,085.76	1/2	2,729.33
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,365.83	3/4	4,148.12	3/4	3,929.35	3/4	3,710.29	3/4	3,434.19	3/4	3,078.34	3/4	2,721.90
8	8	8	8	8	8	8	4,361.31	8	4,143.57	8	3,924.79	8	3,705.73	8	3,426.79	8	3,070.91	8	2,714.48
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,356.79	1/4	4,139.02	1/4	3,920.23	1/4	3,701.17	1/4	3,419.38	1/4	3,063.49	1/4	2,707.05
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,352.26	1/2	4,134.47	1/2	3,915.66	1/2	3,696.60	1/2	3,411.98	1/2	3,056.07	1/2	2,699.62
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,347.74	3/4	4,129.92	3/4	3,911.10	3/4	3,692.04	3/4	3,404.58	3/4	3,048.64	3/4	2,692.20
9	9	9	9	9	9	9	4,343.22	9	4,125.37	9	3,906.53	9	3,687.48	9	3,397.17	9	3,041.22	9	2,684.77
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,338.70	1/4	4,120.83	1/4	3,901.97	1/4	3,682.91	1/4	3,389.77	1/4	3,033.79	1/4	2,677.34
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,334.18	1/2	4,116.28	1/2	3,897.41	1/2	3,678.35	1/2	3,382.37	1/2	3,026.37	1/2	2,669.92
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,329.65	3/4	4,111.73	3/4	3,892.84	3/4	3,673.79	3/4	3,374.96	3/4	3,018.95	3/4	2,662.49
10	10	10	10	10	10	10	4,325.13	10	4,107.18	10	3,888.28	10	3,669.22	10	3,367.56	10	3,011.52	10	2,655.06
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,320.61	1/4	4,102.63	1/4	3,883.72	1/4	3,664.66	1/4	3,360.16	1/4	3,004.10	1/4	2,647.64
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,316.09	1/2	4,098.08	1/2	3,879.15	1/2	3,660.09	1/2	3,352.75	1/2	2,996.67	1/2	2,640.21
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,311.57	3/4	4,093.53	3/4	3,874.59	3/4	3,655.53	3/4	3,345.35	3/4	2,989.25	3/4	2,632.78
11	11	11	11	11	11	11	4,307.04	11	4,088.98	11	3,870.02	11	3,650.97	11	3,337.95	11	2,981.83	11	2,625.36
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,302.52	1/4	4,084.43	1/4	3,865.46	1/4	3,646.40	1/4	3,330.54	1/4	2,974.40	1/4	2,617.93
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,298.00	1/2	4,079.88	1/2	3,860.90	1/2	3,641.84	1/2	3,323.14	1/2	2,966.98	1/2	2,610.50
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,293.48	3/4	4,075.33	3/4	3,856.33	3/4	3,637.28	3/4	3,315.74	3/4	2,959.55	3/4	2,603.07

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH HERMETIC DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
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# BARGE "KIRBY 29170"

## 3 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMI 30056"

GAUGE HEIGHT 17'-03 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,595.64	0	2,240.12	0	1,886.20	0	1,529.41	0	1,172.89	0	826.43	0	469.51	0	112.51	0		0	
1/4	2,588.21	1/4	2,232.75	1/4	1,878.79	1/4	1,521.97	1/4	1,165.61	1/4	819.05	1/4	462.08	1/4	105.06	1/4		1/4	
1/2	2,580.78	1/2	2,225.37	1/2	1,871.37	1/2	1,514.54	1/2	1,158.34	1/2	811.67	1/2	454.64	1/2	97.62	1/2		1/2	
3/4	2,573.34	3/4	2,218.00	3/4	1,863.94	3/4	1,507.10	3/4	1,151.11	3/4	804.23	3/4	447.20	3/4	90.17	3/4		3/4	
1	2,565.91	1	2,210.63	1	1,856.50	1	1,499.67	1	1,143.89	1	796.79	1	439.77	1	82.72	1		1	
1/4	2,558.47	1/4	2,203.26	1/4	1,849.07	1/4	1,492.24	1/4	1,136.66	1/4	789.35	1/4	432.33	1/4	75.27	1/4		1/4	
1/2	2,551.04	1/2	2,195.89	1/2	1,841.63	1/2	1,484.80	1/2	1,129.44	1/2	781.92	1/2	424.89	1/2	67.82	1/2		1/2	
3/4	2,543.61	3/4	2,188.51	3/4	1,834.20	3/4	1,477.37	3/4	1,122.23	3/4	774.48	3/4	417.46	3/4	61.07	3/4		3/4	
2	2,536.17	2	2,181.14	2	1,826.77	2	1,469.93	2	1,115.01	2	767.04	2	410.02	2	54.32	2		2	
1/4	2,528.74	1/4	2,173.77	1/4	1,819.33	1/4	1,462.50	1/4	1,107.80	1/4	759.60	1/4	402.58	1/4	47.57	1/4		1/4	
1/2	2,521.31	1/2	2,166.40	1/2	1,811.90	1/2	1,455.07	1/2	1,100.58	1/2	752.16	1/2	395.15	1/2	40.82	1/2		1/2	
3/4	2,513.87	3/4	2,159.03	3/4	1,804.46	3/4	1,447.63	3/4	1,093.37	3/4	744.73	3/4	387.71	3/4	35.70	3/4		3/4	
3	2,506.44	3	2,151.66	3	1,797.03	3	1,440.20	3	1,086.16	3	737.29	3	380.27	3	30.57	3		3	
1/4	2,499.00	1/4	2,144.29	1/4	1,789.60	1/4	1,432.76	1/4	1,078.95	1/4	729.85	1/4	372.84	1/4	25.45	1/4		1/4	
1/2	2,491.57	1/2	2,136.92	1/2	1,782.16	1/2	1,425.33	1/2	1,071.73	1/2	722.41	1/2	365.40	1/2	20.33	1/2		1/2	
3/4	2,484.16	3/4	2,129.54	3/4	1,774.73	3/4	1,417.90	3/4	1,064.53	3/4	714.97	3/4	357.96	3/4		3/4		3/4	
4	2,476.76	4	2,122.17	4	1,767.29	4	1,410.46	4	1,057.32	4	707.53	4	350.53	4		4		4	
1/4	2,469.35	1/4	2,114.80	1/4	1,759.86	1/4	1,403.03	1/4	1,050.11	1/4	700.10	1/4	343.09	1/4		1/4		1/4	
1/2	2,461.95	1/2	2,107.43	1/2	1,752.43	1/2	1,395.59	1/2	1,042.91	1/2	692.66	1/2	335.65	1/2		1/2		1/2	
3/4	2,454.55	3/4	2,100.06	3/4	1,744.99	3/4	1,388.16	3/4	1,035.70	3/4	685.22	3/4	328.21	3/4		3/4		3/4	
5	2,447.16	5	2,092.69	5	1,737.56	5	1,380.73	5	1,028.50	5	677.78	5	320.78	5		5		5	
1/4	2,439.76	1/4	2,085.32	1/4	1,730.12	1/4	1,373.29	1/4	1,021.29	1/4	670.34	1/4	313.34	1/4		1/4		1/4	
1/2	2,432.37	1/2	2,077.95	1/2	1,722.69	1/2	1,365.86	1/2	1,014.09	1/2	662.91	1/2	305.90	1/2		1/2		1/2	
3/4	2,424.97	3/4	2,070.57	3/4	1,715.26	3/4	1,358.42	3/4	1,006.89	3/4	655.47	3/4	298.47	3/4		3/4		3/4	
6	2,417.58	6	2,063.20	6	1,707.82	6	1,350.99	6	999.68	6	648.03	6	291.03	6		6		6	
1/4	2,410.18	1/4	2,055.83	1/4	1,700.39	1/4	1,343.56	1/4	992.48	1/4	640.59	1/4	283.59	1/4		1/4		1/4	
1/2	2,402.79	1/2	2,048.46	1/2	1,692.95	1/2	1,336.12	1/2	985.27	1/2	633.15	1/2	276.16	1/2		1/2		1/2	
3/4	2,395.39	3/4	2,041.09	3/4	1,685.52	3/4	1,328.69	3/4	978.07	3/4	625.71	3/4	268.72	3/4		3/4		3/4	
7	2,387.99	7	2,033.72	7	1,678.09	7	1,321.25	7	970.86	7	618.28	7	261.28	7		7		7	
1/4	2,380.60	1/4	2,026.35	1/4	1,670.65	1/4	1,313.82	1/4	963.66	1/4	610.84	1/4	253.85	1/4		1/4		1/4	
1/2	2,373.20	1/2	2,018.98	1/2	1,663.22	1/2	1,306.39	1/2	956.45	1/2	603.40	1/2	246.41	1/2		1/2		1/2	
3/4	2,365.81	3/4	2,011.61	3/4	1,655.78	3/4	1,298.95	3/4	949.25	3/4	595.96	3/4	238.97	3/4		3/4		3/4	
8	2,358.41	8	2,004.23	8	1,648.35	8	1,291.52	8	942.05	8	588.52	8	231.53	8		8		8	
1/4	2,351.02	1/4	1,996.86	1/4	1,640.92	1/4	1,284.08	1/4	934.84	1/4	581.08	1/4	224.10	1/4		1/4		1/4	
1/2	2,343.62	1/2	1,989.49	1/2	1,633.48	1/2	1,276.65	1/2	927.64	1/2	573.65	1/2	216.66	1/2		1/2		1/2	
3/4	2,336.23	3/4	1,982.12	3/4	1,626.05	3/4	1,269.22	3/4	920.43	3/4	566.21	3/4	209.22	3/4		3/4		3/4	
9	2,328.83	9	1,974.75	9	1,618.61	9	1,261.78	9	913.23	9	558.77	9	201.78	9		9		9	
1/4	2,321.43	1/4	1,967.38	1/4	1,611.18	1/4	1,254.35	1/4	906.02	1/4	551.33	1/4	194.34	1/4		1/4		1/4	
1/2	2,314.04	1/2	1,960.01	1/2	1,603.75	1/2	1,246.91	1/2	898.82	1/2	543.89	1/2	186.91	1/2		1/2		1/2	
3/4	2,306.64	3/4	1,952.64	3/4	1,596.31	3/4	1,239.48	3/4	891.61	3/4	536.46	3/4	179.47	3/4		3/4		3/4	
10	2,299.25	10	1,945.26	10	1,588.88	10	1,232.05	10	884.41	10	529.02	10	172.03	10		10		10	
1/4	2,291.85	1/4	1,937.89	1/4	1,581.44	1/4	1,224.61	1/4	877.21	1/4	521.58	1/4	164.59	1/4		1/4		1/4	
1/2	2,284.46	1/2	1,930.52	1/2	1,574.01	1/2	1,217.18	1/2	870.00	1/2	514.14	1/2	157.15	1/2		1/2		1/2	
3/4	2,277.06	3/4	1,923.15	3/4	1,566.58	3/4	1,209.74	3/4	862.80	3/4	506.70	3/4	149.71	3/4		3/4		3/4	
11	2,269.67	11	1,915.78	11	1,559.14	11	1,202.31	11	855.59	11	499.26	11	142.27	11		11		11	
1/4	2,262.27	1/4	1,908.41	1/4	1,551.71	1/4	1,194.88	1/4	848.39	1/4	491.83	1/4	134.83	1/4		1/4		1/4	
1/2	2,254.88	1/2	1,901.04	1/2	1,544.27	1/2	1,187.44	1/2	841.18	1/2	484.39	1/2	127.39	1/2		1/2		1/2	
3/4	2,247.50	3/4	1,893.62	3/4	1,536.84	3/4	1,180.16	3/4	833.81	3/4	476.95	3/4	119.95	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/13/2014 SW  
RECALCULATED: 05/13/2024 JS  
NAME CHANGE: 05/13/2024 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 05/2024

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
<http://www.pmacorp.net>



# BARGE "KIRBY 29170"

## 3 STBD ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMI 30056"

GAUGE HEIGHT 17'-03 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0		0	4,314.91	0	4,096.80	0	3,877.83	0	3,658.81	0	3,336.85	0	2,979.89
1/4		1/4		1/4		1/4		1/4	4,310.39	1/4	4,092.25	1/4	3,873.27	1/4	3,654.25	1/4	3,329.43	1/4	2,972.45
1/2		1/2		1/2		1/2		1/2	4,305.87	1/2	4,087.70	1/2	3,868.71	1/2	3,649.68	1/2	3,322.01	1/2	2,965.01
3/4		3/4		3/4		3/4		3/4	4,301.35	3/4	4,083.16	3/4	3,864.15	3/4	3,645.12	3/4	3,314.60	3/4	2,957.56
1		1		1		1	4,494.72	1	4,296.83	1	4,078.60	1	3,859.58	1	3,640.56	1	3,307.18	1	2,950.12
1/4		1/4		1/4		1/4	4,492.87	1/4	4,292.31	1/4	4,074.04	1/4	3,855.02	1/4	3,636.00	1/4	3,299.76	1/4	2,942.68
1/2		1/2		1/2		1/2	4,491.03	1/2	4,287.78	1/2	4,069.48	1/2	3,850.46	1/2	3,631.43	1/2	3,292.34	1/2	2,935.23
3/4		3/4		3/4		3/4	4,489.18	3/4	4,283.26	3/4	4,064.92	3/4	3,845.89	3/4	3,626.87	3/4	3,284.92	3/4	2,927.79
2		2		2		2	4,486.52	2	4,278.72	2	4,060.35	2	3,841.33	2	3,622.31	2	3,277.48	2	2,920.35
1/4		1/4		1/4		1/4	4,483.86	1/4	4,274.18	1/4	4,055.79	1/4	3,836.77	1/4	3,617.74	1/4	3,270.05	1/4	2,912.91
1/2		1/2		1/2		1/2	4,481.20	1/2	4,269.64	1/2	4,051.23	1/2	3,832.20	1/2	3,613.18	1/2	3,262.61	1/2	2,905.46
3/4		3/4		3/4		3/4	4,478.53	3/4	4,265.10	3/4	4,046.67	3/4	3,827.64	3/4	3,608.62	3/4	3,255.18	3/4	2,898.02
3		3		3		3	4,474.81	3	4,260.55	3	4,042.10	3	3,823.08	3	3,604.09	3	3,247.74	3	2,890.58
1/4		1/4		1/4		1/4	4,471.08	1/4	4,256.00	1/4	4,037.54	1/4	3,818.52	1/4	3,595.17	1/4	3,240.30	1/4	2,883.13
1/2		1/2		1/2		1/2	4,467.35	1/2	4,251.45	1/2	4,032.98	1/2	3,813.95	1/2	3,588.44	1/2	3,232.86	1/2	2,875.69
3/4		3/4		3/4		3/4	4,463.63	3/4	4,246.90	3/4	4,028.41	3/4	3,809.39	3/4	3,581.72	3/4	3,225.42	3/4	2,868.25
4		4		4		4	4,459.23	4	4,242.35	4	4,023.85	4	3,804.83	4	3,574.30	4	3,217.98	4	2,860.81
1/4		1/4		1/4		1/4	4,454.84	1/4	4,237.80	1/4	4,019.29	1/4	3,800.26	1/4	3,566.87	1/4	3,210.54	1/4	2,853.36
1/2		1/2		1/2		1/2	4,450.45	1/2	4,233.26	1/2	4,014.72	1/2	3,795.70	1/2	3,559.44	1/2	3,203.10	1/2	2,845.92
3/4		3/4		3/4		3/4	4,446.06	3/4	4,228.71	3/4	4,010.16	3/4	3,791.14	3/4	3,552.02	3/4	3,195.66	3/4	2,838.48
5		5		5		5	4,441.54	5	4,224.16	5	4,005.60	5	3,786.57	5	3,544.60	5	3,188.22	5	2,831.03
1/4		1/4		1/4		1/4	4,437.01	1/4	4,219.61	1/4	4,001.04	1/4	3,782.01	1/4	3,537.18	1/4	3,180.78	1/4	2,823.59
1/2		1/2		1/2		1/2	4,432.49	1/2	4,215.06	1/2	3,996.47	1/2	3,777.45	1/2	3,529.76	1/2	3,173.34	1/2	2,816.15
3/4		3/4		3/4		3/4	4,427.97	3/4	4,210.51	3/4	3,991.91	3/4	3,772.89	3/4	3,522.34	3/4	3,165.90	3/4	2,808.71
6		6		6		6	4,423.44	6	4,205.96	6	3,987.35	6	3,768.32	6	3,514.92	6	3,158.46	6	2,801.26
1/4		1/4		1/4		1/4	4,418.92	1/4	4,201.42	1/4	3,982.78	1/4	3,763.76	1/4	3,507.50	1/4	3,151.01	1/4	2,793.82
1/2		1/2		1/2		1/2	4,414.39	1/2	4,196.87	1/2	3,978.22	1/2	3,759.20	1/2	3,500.08	1/2	3,143.57	1/2	2,786.38
3/4		3/4		3/4		3/4	4,409.87	3/4	4,192.32	3/4	3,973.66	3/4	3,754.63	3/4	3,492.66	3/4	3,136.13	3/4	2,778.93
7		7		7		7	4,405.35	7	4,187.77	7	3,969.09	7	3,750.07	7	3,485.24	7	3,128.69	7	2,771.49
1/4		1/4		1/4		1/4	4,400.82	1/4	4,183.22	1/4	3,964.53	1/4	3,745.51	1/4	3,477.82	1/4	3,121.25	1/4	2,764.05
1/2		1/2		1/2		1/2	4,396.30	1/2	4,178.67	1/2	3,959.97	1/2	3,740.94	1/2	3,470.40	1/2	3,113.81	1/2	2,756.61
3/4		3/4		3/4		3/4	4,391.77	3/4	4,174.13	3/4	3,955.41	3/4	3,736.38	3/4	3,462.99	3/4	3,106.37	3/4	2,749.16
8		8		8		8	4,387.25	8	4,169.58	8	3,950.84	8	3,731.82	8	3,455.57	8	3,098.93	8	2,741.72
1/4		1/4		1/4		1/4	4,382.73	1/4	4,165.03	1/4	3,946.28	1/4	3,727.26	1/4	3,448.15	1/4	3,091.49	1/4	2,734.28
1/2		1/2		1/2		1/2	4,378.21	1/2	4,160.48	1/2	3,941.72	1/2	3,722.69	1/2	3,440.73	1/2	3,084.05	1/2	2,726.83
3/4		3/4		3/4		3/4	4,373.69	3/4	4,155.93	3/4	3,937.15	3/4	3,718.13	3/4	3,433.31	3/4	3,076.61	3/4	2,719.39
9		9		9		9	4,369.16	9	4,151.38	9	3,932.59	9	3,713.57	9	3,425.89	9	3,069.17	9	2,711.95
1/4		1/4		1/4		1/4	4,364.64	1/4	4,146.83	1/4	3,928.03	1/4	3,709.00	1/4	3,418.47	1/4	3,061.73	1/4	2,704.51
1/2		1/2		1/2		1/2	4,360.12	1/2	4,142.29	1/2	3,923.46	1/2	3,704.44	1/2	3,411.05	1/2	3,054.29	1/2	2,697.06
3/4		3/4		3/4		3/4	4,355.60	3/4	4,137.74	3/4	3,918.90	3/4	3,699.88	3/4	3,403.63	3/4	3,046.85	3/4	2,689.62
10		10		10		10	4,351.08	10	4,133.19	10	3,914.34	10	3,695.31	10	3,396.21	10	3,039.41	10	2,682.18
1/4		1/4		1/4		1/4	4,346.56	1/4	4,128.64	1/4	3,909.78	1/4	3,690.75	1/4	3,388.79	1/4	3,031.97	1/4	2,674.73
1/2		1/2		1/2		1/2	4,342.04	1/2	4,124.09	1/2	3,905.21	1/2	3,686.19	1/2	3,381.37	1/2	3,024.53	1/2	2,667.29
3/4		3/4		3/4		3/4	4,337.52	3/4	4,119.54	3/4	3,900.65	3/4	3,681.63	3/4	3,373.95	3/4	3,017.09	3/4	2,659.85
11		11		11		11	4,333.00	11	4,114.99	11	3,896.09	11	3,677.06	11	3,366.53	11	3,009.65	11	2,652.40
1/4		1/4		1/4		1/4	4,328.47	1/4	4,110.45	1/4	3,891.52	1/4	3,672.50	1/4	3,359.11	1/4	3,002.21	1/4	2,644.96
1/2		1/2		1/2		1/2	4,323.95	1/2	4,105.90	1/2	3,886.96	1/2	3,667.94	1/2	3,351.69	1/2	2,994.77	1/2	2,637.52
3/4		3/4		3/4		3/4	4,319.43	3/4	4,101.35	3/4	3,882.40	3/4	3,663.37	3/4	3,344.27	3/4	2,987.33	3/4	2,630.08

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH HERMETIC DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
 P.O. Box 2092  
 Pearland, Texas 77588  
<http://www.pmacorp.net>



# BARGE "KIRBY 29170"

## 3 STBD ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMI 30056"

GAUGE HEIGHT 17'-03 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,622.63	0	2,265.03	0	1,907.42	0	1,549.82	0	1,192.21	0	835.15	0	477.57	0	119.97	0		0	
1/4	2,615.18	1/4	2,257.58	1/4	1,899.97	1/4	1,542.37	1/4	1,184.76	1/4	827.60	1/4	470.12	1/4	112.52	1/4		1/4	
1/2	2,607.73	1/2	2,250.13	1/2	1,892.52	1/2	1,534.92	1/2	1,177.31	1/2	820.26	1/2	462.67	1/2	105.07	1/2		1/2	
3/4	2,600.28	3/4	2,242.68	3/4	1,885.07	3/4	1,527.47	3/4	1,169.86	3/4	812.81	3/4	455.22	3/4	97.62	3/4		3/4	
1	2,592.83	1	2,235.23	1	1,877.62	1	1,520.02	1	1,162.41	1	805.36	1	447.77	1	90.17	1		1	
1/4	2,585.38	1/4	2,227.78	1/4	1,870.17	1/4	1,512.57	1/4	1,154.96	1/4	797.91	1/4	440.32	1/4	82.72	1/4		1/4	
1/2	2,577.93	1/2	2,220.33	1/2	1,862.72	1/2	1,505.12	1/2	1,147.51	1/2	790.46	1/2	432.87	1/2	75.27	1/2		1/2	
3/4	2,570.48	3/4	2,212.88	3/4	1,855.27	3/4	1,497.67	3/4	1,140.06	3/4	783.01	3/4	425.42	3/4	67.82	3/4		3/4	
2	2,563.03	2	2,205.43	2	1,847.82	2	1,490.22	2	1,132.62	2	775.56	2	417.97	2	61.07	2		2	
1/4	2,555.58	1/4	2,197.98	1/4	1,840.37	1/4	1,482.77	1/4	1,125.18	1/4	768.11	1/4	410.52	1/4	54.32	1/4		1/4	
1/2	2,548.13	1/2	2,190.53	1/2	1,832.92	1/2	1,475.32	1/2	1,117.73	1/2	760.66	1/2	403.07	1/2	47.57	1/2		1/2	
3/4	2,540.68	3/4	2,183.08	3/4	1,825.47	3/4	1,467.87	3/4	1,110.29	3/4	753.21	3/4	395.62	3/4	40.82	3/4		3/4	
3	2,533.23	3	2,175.63	3	1,818.02	3	1,460.42	3	1,102.84	3	745.76	3	388.17	3	35.70	3		3	
1/4	2,525.78	1/4	2,168.18	1/4	1,810.57	1/4	1,452.97	1/4	1,095.40	1/4	738.31	1/4	380.72	1/4	30.57	1/4		1/4	
1/2	2,518.33	1/2	2,160.73	1/2	1,803.12	1/2	1,445.52	1/2	1,087.96	1/2	730.87	1/2	373.27	1/2	25.45	1/2		1/2	
3/4	2,510.88	3/4	2,153.28	3/4	1,795.67	3/4	1,438.07	3/4	1,080.52	3/4	723.42	3/4	365.82	3/4	20.33	3/4		3/4	
4	2,503.43	4	2,145.83	4	1,788.22	4	1,430.62	4	1,073.08	4	715.97	4	358.37	4		4		4	
1/4	2,495.98	1/4	2,138.38	1/4	1,780.77	1/4	1,423.17	1/4	1,065.64	1/4	708.52	1/4	350.92	1/4		1/4		1/4	
1/2	2,488.53	1/2	2,130.93	1/2	1,773.32	1/2	1,415.72	1/2	1,058.21	1/2	701.07	1/2	343.47	1/2		1/2		1/2	
3/4	2,481.08	3/4	2,123.48	3/4	1,765.87	3/4	1,408.27	3/4	1,050.77	3/4	693.62	3/4	336.02	3/4		3/4		3/4	
5	2,473.63	5	2,116.03	5	1,758.42	5	1,400.82	5	1,043.34	5	686.17	5	328.57	5		5		5	
1/4	2,466.18	1/4	2,108.58	1/4	1,750.97	1/4	1,393.37	1/4	1,035.90	1/4	678.72	1/4	321.12	1/4		1/4		1/4	
1/2	2,458.73	1/2	2,101.13	1/2	1,743.52	1/2	1,385.92	1/2	1,028.47	1/2	671.27	1/2	313.67	1/2		1/2		1/2	
3/4	2,451.28	3/4	2,093.68	3/4	1,736.07	3/4	1,378.47	3/4	1,021.03	3/4	663.82	3/4	306.22	3/4		3/4		3/4	
6	2,443.83	6	2,086.23	6	1,728.62	6	1,371.02	6	1,013.60	6	656.37	6	298.77	6		6		6	
1/4	2,436.38	1/4	2,078.78	1/4	1,721.17	1/4	1,363.57	1/4	1,006.16	1/4	648.92	1/4	291.32	1/4		1/4		1/4	
1/2	2,428.93	1/2	2,071.33	1/2	1,713.72	1/2	1,356.12	1/2	998.73	1/2	641.47	1/2	283.87	1/2		1/2		1/2	
3/4	2,421.48	3/4	2,063.88	3/4	1,706.27	3/4	1,348.67	3/4	991.29	3/4	634.02	3/4	276.42	3/4		3/4		3/4	
7	2,414.03	7	2,056.43	7	1,698.82	7	1,341.22	7	983.86	7	626.57	7	268.97	7		7		7	
1/4	2,406.58	1/4	2,048.98	1/4	1,691.37	1/4	1,333.77	1/4	976.42	1/4	619.12	1/4	261.52	1/4		1/4		1/4	
1/2	2,399.13	1/2	2,041.53	1/2	1,683.92	1/2	1,326.32	1/2	968.99	1/2	611.67	1/2	254.07	1/2		1/2		1/2	
3/4	2,391.68	3/4	2,034.08	3/4	1,676.47	3/4	1,318.87	3/4	961.55	3/4	604.22	3/4	246.62	3/4		3/4		3/4	
8	2,384.23	8	2,026.63	8	1,669.02	8	1,311.42	8	954.12	8	596.77	8	239.17	8		8		8	
1/4	2,376.78	1/4	2,019.18	1/4	1,661.57	1/4	1,303.97	1/4	946.68	1/4	589.32	1/4	231.72	1/4		1/4		1/4	
1/2	2,369.33	1/2	2,011.73	1/2	1,654.12	1/2	1,296.52	1/2	939.25	1/2	581.87	1/2	224.27	1/2		1/2		1/2	
3/4	2,361.88	3/4	2,004.28	3/4	1,646.67	3/4	1,289.07	3/4	931.81	3/4	574.42	3/4	216.82	3/4		3/4		3/4	
9	2,354.43	9	1,996.83	9	1,639.22	9	1,281.62	9	924.38	9	566.97	9	209.37	9		9		9	
1/4	2,346.98	1/4	1,989.38	1/4	1,631.77	1/4	1,274.17	1/4	916.94	1/4	559.52	1/4	201.92	1/4		1/4		1/4	
1/2	2,339.53	1/2	1,981.92	1/2	1,624.32	1/2	1,266.72	1/2	909.51	1/2	552.07	1/2	194.47	1/2		1/2		1/2	
3/4	2,332.08	3/4	1,974.47	3/4	1,616.87	3/4	1,259.27	3/4	902.07	3/4	544.62	3/4	187.02	3/4		3/4		3/4	
10	2,324.63	10	1,967.02	10	1,609.42	10	1,251.82	10	894.64	10	537.17	10	179.57	10		10		10	
1/4	2,317.18	1/4	1,959.57	1/4	1,601.97	1/4	1,244.37	1/4	887.20	1/4	529.72	1/4	172.12	1/4		1/4		1/4	
1/2	2,309.73	1/2	1,952.12	1/2	1,594.52	1/2	1,236.91	1/2	879.77	1/2	522.27	1/2	164.67	1/2		1/2		1/2	
3/4	2,302.28	3/4	1,944.67	3/4	1,587.07	3/4	1,229.46	3/4	872.34	3/4	514.82	3/4	157.22	3/4		3/4		3/4	
11	2,294.83	11	1,937.22	11	1,579.62	11	1,222.01	11	864.90	11	507.37	11	149.77	11		11		11	
1/4	2,287.38	1/4	1,929.77	1/4	1,572.17	1/4	1,214.56	1/4	857.47	1/4	499.92	1/4	142.32	1/4		1/4		1/4	
1/2	2,279.93	1/2	1,922.32	1/2	1,564.72	1/2	1,207.11	1/2	850.03	1/2	492.47	1/2	134.87	1/2		1/2		1/2	
3/4	2,272.48	3/4	1,914.87	3/4	1,557.27	3/4	1,199.66	3/4	842.60	3/4	485.02	3/4	127.42	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/13/2014 SW  
RECALCULATED: 05/13/2024 JS  
NAME CHANGE: 05/13/2024 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 05/2024

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
<http://www.dmacorp.net>



# BARGE "KIRBY 29170"

## SLOP TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

FORMERLY "SMI 30056"

GAUGE HEIGHT 5'-08 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	433	0	1,021	0	1,641	0	2,206	0		0		0		0		0	
1/4	5	1/4	444	1/4	1,034	1/4	1,653	1/4	2,216	1/4		1/4		1/4		1/4		1/4	
1/2	11	1/2	456	1/2	1,047	1/2	1,666	1/2	2,227	1/2		1/2		1/2		1/2		1/2	
3/4	16	3/4	467	3/4	1,060	3/4	1,678	3/4	2,237	3/4		3/4		3/4		3/4		3/4	
1	21	1	479	1	1,073	1	1,691	1	2,247	1		1		1		1		1	
1/4	28	1/4	490	1/4	1,086	1/4	1,703	1/4	2,257	1/4		1/4		1/4		1/4		1/4	
1/2	35	1/2	502	1/2	1,099	1/2	1,716	1/2	2,267	1/2		1/2		1/2		1/2		1/2	
3/4	41	3/4	513	3/4	1,111	3/4	1,729	3/4	2,277	3/4		3/4		3/4		3/4		3/4	
2	48	2	525	2	1,124	2	1,741	2	2,287	2		2		2		2		2	
1/4	56	1/4	537	1/4	1,137	1/4	1,753	1/4	2,297	1/4		1/4		1/4		1/4		1/4	
1/2	63	1/2	549	1/2	1,150	1/2	1,766	1/2	2,306	1/2		1/2		1/2		1/2		1/2	
3/4	71	3/4	560	3/4	1,163	3/4	1,778	3/4	2,316	3/4		3/4		3/4		3/4		3/4	
3	78	3	572	3	1,176	3	1,791	3	2,326	3		3		3		3		3	
1/4	86	1/4	584	1/4	1,189	1/4	1,803	1/4	2,335	1/4		1/4		1/4		1/4		1/4	
1/2	95	1/2	596	1/2	1,202	1/2	1,815	1/2	2,344	1/2		1/2		1/2		1/2		1/2	
3/4	103	3/4	608	3/4	1,215	3/4	1,827	3/4	2,353	3/4		3/4		3/4		3/4		3/4	
4	111	4	620	4	1,228	4	1,840	4	2,362	4		4		4		4		4	
1/4	120	1/4	632	1/4	1,241	1/4	1,852	1/4	2,371	1/4		1/4		1/4		1/4		1/4	
1/2	128	1/2	644	1/2	1,254	1/2	1,864	1/2	2,380	1/2		1/2		1/2		1/2		1/2	
3/4	137	3/4	656	3/4	1,267	3/4	1,876	3/4	2,389	3/4		3/4		3/4		3/4		3/4	
5	146	5	669	5	1,280	5	1,888	5	2,397	5		5		5		5		5	
1/4	155	1/4	681	1/4	1,293	1/4	1,900	1/4	2,406	1/4		1/4		1/4		1/4		1/4	
1/2	164	1/2	693	1/2	1,306	1/2	1,912	1/2	2,414	1/2		1/2		1/2		1/2		1/2	
3/4	173	3/4	705	3/4	1,319	3/4	1,924	3/4	2,422	3/4		3/4		3/4		3/4		3/4	
6	183	6	718	6	1,332	6	1,936	6	2,430	6		6		6		6		6	
1/4	192	1/4	730	1/4	1,345	1/4	1,948	1/4	2,438	1/4		1/4		1/4		1/4		1/4	
1/2	202	1/2	742	1/2	1,358	1/2	1,960	1/2	2,445	1/2		1/2		1/2		1/2		1/2	
3/4	211	3/4	755	3/4	1,371	3/4	1,971	3/4	2,453	3/4		3/4		3/4		3/4		3/4	
7	221	7	767	7	1,384	7	1,983	7	2,460	7		7		7		7		7	
1/4	231	1/4	780	1/4	1,397	1/4	1,995	1/4	2,467	1/4		1/4		1/4		1/4		1/4	
1/2	241	1/2	792	1/2	1,410	1/2	2,006	1/2	2,473	1/2		1/2		1/2		1/2		1/2	
3/4	251	3/4	805	3/4	1,423	3/4	2,018	3/4	2,480	3/4		3/4		3/4		3/4		3/4	
8	261	8	817	8	1,436	8	2,030	8	2,487	8		8		8		8		8	
1/4	271	1/4	830	1/4	1,449	1/4	2,041	1/4	2,492	1/4		1/4		1/4		1/4		1/4	
1/2	282	1/2	843	1/2	1,461	1/2	2,052	1/2	2,498	1/2		1/2		1/2		1/2		1/2	
3/4	292	3/4	855	3/4	1,474	3/4	2,064	3/4	2,503	3/4		3/4		3/4		3/4		3/4	
9	302	9	868	9	1,487	9	2,075	9	2,508	9		9		9		9		9	
1/4	313	1/4	880	1/4	1,500	1/4	2,086	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	324	1/2	893	1/2	1,513	1/2	2,098	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	334	3/4	906	3/4	1,526	3/4	2,109	3/4		3/4		3/4		3/4		3/4		3/4	
10	345	10	919	10	1,539	10	2,120	10		10		10		10		10		10	
1/4	356	1/4	931	1/4	1,551	1/4	2,131	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	367	1/2	944	1/2	1,564	1/2	2,142	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	378	3/4	957	3/4	1,577	3/4	2,153	3/4		3/4		3/4		3/4		3/4		3/4	
11	388	11	970	11	1,590	11	2,163	11		11		11		11		11		11	
1/4	400	1/4	983	1/4	1,602	1/4	2,174	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	411	1/2	995	1/2	1,615	1/2	2,185	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	422	3/4	1,008	3/4	1,628	3/4	2,195	3/4		3/4		3/4		3/4		3/4		3/4	

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK AT GAUGE POINT.  
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE

STRAPPED: 03/13/2014 SW  
 RECALCULATED: 05/13/2024 JS  
 NAME CHANGE: 05/13/2024 JS

CANCELS AND SUPERCEDES  
 ALL PRIOR TO 05/2024

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 2092  
 Pearland, Texas 77588  
<http://www.pmacorp.net>





# BARGE "KIRBY 29170"

## FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

FORMERLY "SMI 30056"

GAUGE HEIGHT 4'-05 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	100	0	257	0	413	0	513	0		0		0		0		0	
1/4	1	1/4	103	1/4	260	1/4	416	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1	1/2	106	1/2	263	1/2	419	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2	3/4	109	3/4	267	3/4	422	3/4		3/4		3/4		3/4		3/4		3/4	
1	3	1	112	1	270	1	424	1	1	1		1		1		1		1	
1/4	4	1/4	115	1/4	274	1/4	427	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	5	1/2	118	1/2	277	1/2	430	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	6	3/4	121	3/4	280	3/4	433	3/4		3/4		3/4		3/4		3/4		3/4	
2	7	2	124	2	284	2	436	2	2	2		2		2		2		2	
1/4	9	1/4	128	1/4	287	1/4	438	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	10	1/2	131	1/2	291	1/2	441	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	12	3/4	134	3/4	294	3/4	444	3/4		3/4		3/4		3/4		3/4		3/4	
3	13	3	137	3	297	3	446	3	3	3		3		3		3		3	
1/4	15	1/4	140	1/4	301	1/4	449	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	17	1/2	143	1/2	304	1/2	452	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	19	3/4	147	3/4	307	3/4	454	3/4		3/4		3/4		3/4		3/4		3/4	
4	20	4	150	4	311	4	457	4	4	4		4		4		4		4	
1/4	22	1/4	153	1/4	314	1/4	459	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	24	1/2	156	1/2	317	1/2	462	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	26	3/4	159	3/4	321	3/4	464	3/4		3/4		3/4		3/4		3/4		3/4	
5	28	5	163	5	324	5	467	5	5	5		5		5		5		5	
1/4	31	1/4	166	1/4	327	1/4	469	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	33	1/2	169	1/2	331	1/2	471	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	35	3/4	172	3/4	334	3/4	474	3/4		3/4		3/4		3/4		3/4		3/4	
6	37	6	176	6	337	6	476	6	6	6		6		6		6		6	
1/4	39	1/4	179	1/4	341	1/4	478	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	42	1/2	182	1/2	344	1/2	480	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	44	3/4	186	3/4	347	3/4	483	3/4		3/4		3/4		3/4		3/4		3/4	
7	46	7	189	7	350	7	485	7	7	7		7		7		7		7	
1/4	49	1/4	192	1/4	354	1/4	487	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	51	1/2	196	1/2	357	1/2	489	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	54	3/4	199	3/4	360	3/4	491	3/4		3/4		3/4		3/4		3/4		3/4	
8	56	8	202	8	363	8	493	8	8	8		8		8		8		8	
1/4	59	1/4	206	1/4	367	1/4	494	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	61	1/2	209	1/2	370	1/2	496	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	64	3/4	212	3/4	373	3/4	498	3/4		3/4		3/4		3/4		3/4		3/4	
9	67	9	216	9	376	9	500	9	9	9		9		9		9		9	
1/4	69	1/4	219	1/4	379	1/4	501	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	72	1/2	223	1/2	382	1/2	503	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	75	3/4	226	3/4	385	3/4	504	3/4		3/4		3/4		3/4		3/4		3/4	
10	77	10	229	10	389	10	506	10	10	10		10		10		10		10	
1/4	80	1/4	233	1/4	392	1/4	507	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	83	1/2	236	1/2	395	1/2	508	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	86	3/4	240	3/4	398	3/4	509	3/4		3/4		3/4		3/4		3/4		3/4	
11	89	11	243	11	401	11	510	11	11	11		11		11		11		11	
1/4	92	1/4	246	1/4	404	1/4	511	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	95	1/2	250	1/2	407	1/2	512	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	97	3/4	253	3/4	410	3/4	512	3/4		3/4		3/4		3/4		3/4		3/4	

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK AT GAUGE POINT.  
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN AT 2" DIAMETER STANDPIPE.

STRAPPED: 03/13/2014 SW  
RECALCULATED: 05/13/2024 JS  
NAME CHANGE: 05/13/2024 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 05/2024

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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