



BARGE "KIRBY 29166"

ULLAGE TRIM TABLE

FORMERLY "SMI 30049"

	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	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4
1 STBD	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	00-1/4	- 00-1/4
2 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
2 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
3 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	00-0/8	- 00-0/8
3 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	00-0/8	- 00-0/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 2'-00"
 AFT DRAFT = 4'-00"
 DIFF. = 2'-00" (DOWN BY STERN)

THE CORRECTION FOR 2'-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"

June 30, 2023

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 29166"

1 PORT
ULLAGE TABLE
"HERMETIC"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMI 30049"

GAUGE HEIGHT 17'-03 3/4"

Table with columns for gauge height (0, 1/4, 1/2, 3/4 FT.) and rows for ullage (0 to 11). Each cell contains capacity values in barrels.

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 GUAGING DEVICE
GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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BARGE "KIRBY 29166"

1 PORT ULLAGE TABLE "HERMETIC"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMI 30049"

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	2,560.66	0	2,202.62	0	1,844.59	0	1,486.55	0	1,128.54	0	772.65	0	416.31	0	96.27	0		0	
1/4	2,553.20	1/4	2,195.16	1/4	1,837.13	1/4	1,479.09	1/4	1,121.10	1/4	765.20	1/4	409.13	1/4	90.15	1/4		1/4	
1/2	2,545.74	1/2	2,187.71	1/2	1,829.67	1/2	1,471.63	1/2	1,113.66	1/2	757.75	1/2	401.96	1/2	84.03	1/2		1/2	
3/4	2,538.28	3/4	2,180.25	3/4	1,822.21	3/4	1,464.17	3/4	1,106.22	3/4	750.31	3/4	394.79	3/4	77.91	3/4		3/4	
1	2,530.82	1	2,172.79	1	1,814.75	1	1,456.71	1	1,098.79	1	742.85	1	387.70	1	71.88	1		1	
1/4	2,523.37	1/4	2,165.33	1/4	1,807.29	1/4	1,449.25	1/4	1,091.36	1/4	735.39	1/4	380.62	1/4	65.85	1/4		1/4	
1/2	2,515.91	1/2	2,157.87	1/2	1,799.83	1/2	1,441.80	1/2	1,083.94	1/2	727.93	1/2	373.53	1/2	59.82	1/2		1/2	
3/4	2,508.45	3/4	2,150.41	3/4	1,792.37	3/4	1,434.34	3/4	1,076.51	3/4	720.47	3/4	366.45	3/4	53.79	3/4		3/4	
2	2,500.99	2	2,142.95	2	1,784.91	2	1,426.88	2	1,069.09	2	713.01	2	359.45	2	48.55	2		2	
1/4	2,493.53	1/4	2,135.49	1/4	1,777.46	1/4	1,419.42	1/4	1,061.67	1/4	705.56	1/4	352.45	1/4	43.31	1/4		1/4	
1/2	2,486.07	1/2	2,128.03	1/2	1,770.00	1/2	1,411.96	1/2	1,054.25	1/2	698.10	1/2	345.45	1/2	38.07	1/2		1/2	
3/4	2,478.61	3/4	2,120.57	3/4	1,762.54	3/4	1,404.50	3/4	1,046.83	3/4	690.64	3/4	338.46	3/4	32.82	3/4		3/4	
3	2,471.15	3	2,113.11	3	1,755.08	3	1,397.04	3	1,039.41	3	683.18	3	331.55	3	29.30	3		3	
1/4	2,463.69	1/4	2,105.66	1/4	1,747.62	1/4	1,389.58	1/4	1,032.00	1/4	675.72	1/4	324.64	1/4	25.78	1/4		1/4	
1/2	2,456.23	1/2	2,098.20	1/2	1,740.16	1/2	1,382.12	1/2	1,024.58	1/2	668.26	1/2	317.73	1/2	22.26	1/2		1/2	
3/4	2,448.77	3/4	2,090.74	3/4	1,732.70	3/4	1,374.66	3/4	1,017.17	3/4	660.80	3/4	310.82	3/4	18.73	3/4		3/4	
4	2,441.32	4	2,083.28	4	1,725.24	4	1,367.20	4	1,009.76	4	653.34	4	304.00	4		4		4	
1/4	2,433.86	1/4	2,075.82	1/4	1,717.78	1/4	1,359.75	1/4	1,002.35	1/4	645.88	1/4	297.18	1/4		1/4		1/4	
1/2	2,426.40	1/2	2,068.36	1/2	1,710.32	1/2	1,352.29	1/2	994.94	1/2	638.43	1/2	290.36	1/2		1/2		1/2	
3/4	2,418.94	3/4	2,060.90	3/4	1,702.86	3/4	1,344.83	3/4	987.53	3/4	630.97	3/4	283.53	3/4		3/4		3/4	
5	2,411.48	5	2,053.44	5	1,695.41	5	1,337.37	5	980.12	5	623.51	5	276.80	5		5		5	
1/4	2,404.02	1/4	2,045.98	1/4	1,687.95	1/4	1,329.91	1/4	972.71	1/4	616.05	1/4	270.07	1/4		1/4		1/4	
1/2	2,396.56	1/2	2,038.52	1/2	1,680.49	1/2	1,322.45	1/2	965.30	1/2	608.59	1/2	263.33	1/2		1/2		1/2	
3/4	2,389.10	3/4	2,031.06	3/4	1,673.03	3/4	1,314.99	3/4	957.89	3/4	601.13	3/4	256.60	3/4		3/4		3/4	
6	2,381.64	6	2,023.61	6	1,665.57	6	1,307.53	6	950.49	6	593.67	6	249.96	6		6		6	
1/4	2,374.18	1/4	2,016.15	1/4	1,658.11	1/4	1,300.07	1/4	943.08	1/4	586.21	1/4	243.31	1/4		1/4		1/4	
1/2	2,366.72	1/2	2,008.69	1/2	1,650.65	1/2	1,292.61	1/2	935.67	1/2	578.75	1/2	236.66	1/2		1/2		1/2	
3/4	2,359.26	3/4	2,001.23	3/4	1,643.19	3/4	1,285.15	3/4	928.26	3/4	571.29	3/4	230.02	3/4		3/4		3/4	
7	2,351.81	7	1,993.77	7	1,635.73	7	1,277.70	7	920.85	7	563.84	7	223.46	7		7		7	
1/4	2,344.35	1/4	1,986.31	1/4	1,628.27	1/4	1,270.24	1/4	913.44	1/4	556.38	1/4	216.90	1/4		1/4		1/4	
1/2	2,336.89	1/2	1,978.85	1/2	1,620.81	1/2	1,262.78	1/2	906.04	1/2	548.92	1/2	210.35	1/2		1/2		1/2	
3/4	2,329.43	3/4	1,971.39	3/4	1,613.35	3/4	1,255.32	3/4	898.63	3/4	541.46	3/4	203.79	3/4		3/4		3/4	
8	2,321.97	8	1,963.93	8	1,605.90	8	1,247.86	8	891.22	8	534.00	8	197.32	8		8		8	
1/4	2,314.51	1/4	1,956.47	1/4	1,598.44	1/4	1,240.40	1/4	883.81	1/4	526.54	1/4	190.85	1/4		1/4		1/4	
1/2	2,307.05	1/2	1,949.01	1/2	1,590.98	1/2	1,232.94	1/2	876.40	1/2	519.08	1/2	184.38	1/2		1/2		1/2	
3/4	2,299.59	3/4	1,941.56	3/4	1,583.52	3/4	1,225.48	3/4	868.99	3/4	511.62	3/4	177.91	3/4		3/4		3/4	
9	2,292.13	9	1,934.10	9	1,576.06	9	1,218.02	9	861.59	9	504.20	9	171.53	9		9		9	
1/4	2,284.67	1/4	1,926.64	1/4	1,568.60	1/4	1,210.56	1/4	854.18	1/4	496.77	1/4	165.15	1/4		1/4		1/4	
1/2	2,277.21	1/2	1,919.18	1/2	1,561.14	1/2	1,203.10	1/2	846.77	1/2	489.35	1/2	158.77	1/2		1/2		1/2	
3/4	2,269.76	3/4	1,911.72	3/4	1,553.68	3/4	1,195.65	3/4	839.36	3/4	481.92	3/4	152.38	3/4		3/4		3/4	
10	2,262.30	10	1,904.26	10	1,546.22	10	1,188.19	10	831.95	10	474.57	10	146.09	10		10		10	
1/4	2,254.84	1/4	1,896.80	1/4	1,538.76	1/4	1,180.73	1/4	824.54	1/4	467.22	1/4	139.80	1/4		1/4		1/4	
1/2	2,247.38	1/2	1,889.34	1/2	1,531.30	1/2	1,173.27	1/2	817.14	1/2	459.87	1/2	133.50	1/2		1/2		1/2	
3/4	2,239.92	3/4	1,881.88	3/4	1,523.85	3/4	1,165.81	3/4	809.73	3/4	452.52	3/4	127.21	3/4		3/4		3/4	
11	2,232.46	11	1,874.42	11	1,516.39	11	1,158.35	11	802.32	11	445.26	11	121.00	11		11		11	
1/4	2,225.00	1/4	1,866.96	1/4	1,508.93	1/4	1,150.89	1/4	794.91	1/4	438.00	1/4	114.80	1/4		1/4		1/4	
1/2	2,217.54	1/2	1,859.51	1/2	1,501.47	1/2	1,143.43	1/2	787.50	1/2	430.74	1/2	108.59	1/2		1/2		1/2	
3/4	2,210.08	3/4	1,852.05	3/4	1,494.01	3/4	1,135.97	3/4	780.09	3/4	423.48	3/4	102.39	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/23/2013 CL
RECALCULATED: 07/06/2023 JS
VERIFIED: 06/30/2023 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2023

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "KIRBY 29166"

1 STBD ULLAGE TABLE "HERMETIC"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMI 30049"

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		0	4,700.69	0	4,344.17	0	3,986.39	0	3,628.55	0	3,270.71	0	2,912.86
1/4		1/4		1/4		1/4		1/4	4,693.29	1/4	4,336.73	1/4	3,978.93	1/4	3,621.09	1/4	3,263.25	1/4	2,905.40
1/2		1/2		1/2		1/2		1/2	4,685.90	1/2	4,329.30	1/2	3,971.48	1/2	3,613.64	1/2	3,255.80	1/2	2,897.94
3/4		3/4		3/4		3/4		3/4	5,013.53	3/4	4,678.51	3/4	4,321.85	3/4	3,964.02	3/4	3,606.18	3/4	2,890.48
1		1		1		1		1	5,009.06	1	4,671.11	1	4,314.40	1	3,956.57	1	3,598.73	1	3,240.89
1/4		1/4		1/4		1/4		1/4	5,004.60	1/4	4,663.72	1/4	4,306.95	1/4	3,949.11	1/4	3,591.27	1/4	3,233.43
1/2		1/2		1/2		1/2		1/2	5,000.13	1/2	4,656.33	1/2	4,299.50	1/2	3,941.66	1/2	3,583.82	1/2	3,225.98
3/4		3/4		3/4		3/4		3/4	4,994.60	3/4	4,648.90	3/4	4,292.04	3/4	3,934.20	3/4	3,576.36	3/4	3,218.52
2		2		2		2		2	4,989.06	2	4,641.48	2	4,284.59	2	3,926.75	2	3,568.91	2	3,211.07
1/4		1/4		1/4		1/4		1/4	4,983.53	1/4	4,634.06	1/4	4,277.13	1/4	3,919.29	1/4	3,561.45	1/4	3,203.61
1/2		1/2		1/2		1/2		1/2	4,978.00	1/2	4,626.63	1/2	4,269.68	1/2	3,911.84	1/2	3,554.00	1/2	3,196.16
3/4		3/4		3/4		3/4		3/4	4,971.40	3/4	4,619.20	3/4	4,262.22	3/4	3,904.38	3/4	3,546.54	3/4	3,188.70
3		3		3		3		3	4,964.80	3	4,611.76	3	4,254.77	3	3,896.93	3	3,539.09	3	3,181.25
1/4		1/4		1/4		1/4		1/4	4,958.20	1/4	4,604.33	1/4	4,247.31	1/4	3,889.47	1/4	3,531.63	1/4	3,173.79
1/2		1/2		1/2		1/2		1/2	4,951.61	1/2	4,596.90	1/2	4,239.86	1/2	3,882.02	1/2	3,524.18	1/2	3,166.34
3/4		3/4		3/4		3/4		3/4	4,944.34	3/4	4,589.47	3/4	4,232.40	3/4	3,874.56	3/4	3,516.72	3/4	3,158.88
4		4		4		4		4	4,937.08	4	4,582.03	4	4,224.95	4	3,867.11	4	3,509.27	4	3,151.43
1/4		1/4		1/4		1/4		1/4	4,929.81	1/4	4,574.60	1/4	4,217.49	1/4	3,859.65	1/4	3,501.81	1/4	3,143.97
1/2		1/2		1/2		1/2		1/2	4,922.55	1/2	4,567.17	1/2	4,210.04	1/2	3,852.20	1/2	3,494.36	1/2	3,136.52
3/4		3/4		3/4		3/4		3/4	4,915.15	3/4	4,559.73	3/4	4,202.58	3/4	3,844.74	3/4	3,486.90	3/4	3,129.06
5		5		5		5		5	4,907.75	5	4,552.30	5	4,195.13	5	3,837.29	5	3,479.45	5	3,121.61
1/4		1/4		1/4		1/4		1/4	4,900.36	1/4	4,544.87	1/4	4,187.67	1/4	3,829.83	1/4	3,471.99	1/4	3,114.15
1/2		1/2		1/2		1/2		1/2	4,892.96	1/2	4,537.43	1/2	4,180.22	1/2	3,822.38	1/2	3,464.54	1/2	3,106.70
3/4		3/4		3/4		3/4		3/4	4,885.56	3/4	4,530.00	3/4	4,172.76	3/4	3,814.92	3/4	3,457.08	3/4	3,099.24
6		6		6		6		6	4,878.16	6	4,522.57	6	4,165.31	6	3,807.47	6	3,449.63	6	3,091.79
1/4		1/4		1/4		1/4		1/4	4,870.77	1/4	4,515.13	1/4	4,157.85	1/4	3,800.01	1/4	3,442.17	1/4	3,084.33
1/2		1/2		1/2		1/2		1/2	4,863.37	1/2	4,507.70	1/2	4,150.40	1/2	3,792.56	1/2	3,434.72	1/2	3,076.88
3/4		3/4		3/4		3/4		3/4	4,855.97	3/4	4,500.27	3/4	4,142.94	3/4	3,785.10	3/4	3,427.26	3/4	3,069.42
7		7		7		7		7	4,848.57	7	4,492.83	7	4,135.49	7	3,777.65	7	3,419.81	7	3,061.97
1/4		1/4		1/4		1/4		1/4	4,841.18	1/4	4,485.40	1/4	4,128.03	1/4	3,770.19	1/4	3,412.35	1/4	3,054.51
1/2		1/2		1/2		1/2		1/2	4,833.78	1/2	4,477.97	1/2	4,120.58	1/2	3,762.74	1/2	3,404.90	1/2	3,047.06
3/4		3/4		3/4		3/4		3/4	4,826.38	3/4	4,470.53	3/4	4,113.12	3/4	3,755.28	3/4	3,397.44	3/4	3,039.60
8		8		8		8		8	4,818.99	8	4,463.10	8	4,105.67	8	3,747.83	8	3,389.99	8	3,032.15
1/4		1/4		1/4		1/4		1/4	4,811.59	1/4	4,455.67	1/4	4,098.21	1/4	3,740.37	1/4	3,382.53	1/4	3,024.69
1/2		1/2		1/2		1/2		1/2	4,804.20	1/2	4,448.23	1/2	4,090.76	1/2	3,732.92	1/2	3,375.08	1/2	3,017.24
3/4		3/4		3/4		3/4		3/4	4,796.80	3/4	4,440.80	3/4	4,083.30	3/4	3,725.46	3/4	3,367.62	3/4	3,009.78
9		9		9		9		9	4,789.41	9	4,433.37	9	4,075.85	9	3,718.01	9	3,360.17	9	3,002.33
1/4		1/4		1/4		1/4		1/4	4,782.02	1/4	4,425.93	1/4	4,068.39	1/4	3,710.55	1/4	3,352.71	1/4	2,994.87
1/2		1/2		1/2		1/2		1/2	4,774.62	1/2	4,418.50	1/2	4,060.94	1/2	3,703.10	1/2	3,345.26	1/2	2,987.42
3/4		3/4		3/4		3/4		3/4	4,767.23	3/4	4,411.07	3/4	4,053.48	3/4	3,695.64	3/4	3,337.80	3/4	2,979.96
10		10		10		10		10	4,759.84	10	4,403.63	10	4,046.03	10	3,688.19	10	3,330.35	10	2,972.51
1/4		1/4		1/4		1/4		1/4	4,752.44	1/4	4,396.20	1/4	4,038.57	1/4	3,680.73	1/4	3,322.89	1/4	2,965.05
1/2		1/2		1/2		1/2		1/2	4,745.05	1/2	4,388.77	1/2	4,031.12	1/2	3,673.28	1/2	3,315.44	1/2	2,957.60
3/4		3/4		3/4		3/4		3/4	4,737.66	3/4	4,381.33	3/4	4,023.66	3/4	3,665.82	3/4	3,307.98	3/4	2,950.14
11		11		11		11		11	4,730.26	11	4,373.90	11	4,016.21	11	3,658.37	11	3,300.53	11	2,942.69
1/4		1/4		1/4		1/4		1/4	4,722.87	1/4	4,366.47	1/4	4,008.75	1/4	3,650.91	1/4	3,293.07	1/4	2,935.23
1/2		1/2		1/2		1/2		1/2	4,715.48	1/2	4,359.03	1/2	4,001.30	1/2	3,643.46	1/2	3,285.62	1/2	2,927.78
3/4		3/4		3/4		3/4		3/4	4,708.08	3/4	4,351.60	3/4	3,993.84	3/4	3,636.00	3/4	3,278.16	3/4	2,920.32

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 GAUGING DEVICE

GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092

Pearland, Texas 77588
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BARGE "KIRBY 29166"

1 STBD
ULLAGE TABLE
"HERMETIC"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMI 30049"

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	2,554.83	0	2,196.80	0	1,838.76	0	1,480.73	0	1,122.70	0	765.16	0	409.13	0	90.15	0		0	
1/4	2,547.37	1/4	2,189.34	1/4	1,831.30	1/4	1,473.27	1/4	1,115.24	1/4	757.70	1/4	401.96	1/4	84.03	1/4		1/4	
1/2	2,539.91	1/2	2,181.88	1/2	1,823.85	1/2	1,465.81	1/2	1,107.78	1/2	750.24	1/2	394.79	1/2	77.91	1/2		1/2	
3/4	2,532.45	3/4	2,174.42	3/4	1,816.39	3/4	1,458.35	3/4	1,100.32	3/4	742.79	3/4	387.70	3/4	71.88	3/4		3/4	
1	2,524.99	1	2,166.96	1	1,808.93	1	1,450.90	1	1,092.86	1	735.33	1	380.62	1	65.85	1		1	
1/4	2,517.53	1/4	2,159.50	1/4	1,801.47	1/4	1,443.44	1/4	1,085.40	1/4	727.87	1/4	373.53	1/4	59.82	1/4		1/4	
1/2	2,510.07	1/2	2,152.04	1/2	1,794.01	1/2	1,435.98	1/2	1,077.95	1/2	720.41	1/2	366.45	1/2	53.79	1/2		1/2	
3/4	2,502.61	3/4	2,144.58	3/4	1,786.55	3/4	1,428.52	3/4	1,070.49	3/4	712.95	3/4	359.45	3/4	48.55	3/4		3/4	
2	2,495.16	2	2,137.12	2	1,779.09	2	1,421.06	2	1,063.04	2	705.49	2	352.45	2	43.31	2		2	
1/4	2,487.70	1/4	2,129.66	1/4	1,771.63	1/4	1,413.60	1/4	1,055.58	1/4	698.03	1/4	345.45	1/4	38.07	1/4		1/4	
1/2	2,480.24	1/2	2,122.21	1/2	1,764.17	1/2	1,406.14	1/2	1,048.13	1/2	690.57	1/2	338.46	1/2	32.82	1/2		1/2	
3/4	2,472.78	3/4	2,114.75	3/4	1,756.71	3/4	1,398.68	3/4	1,040.68	3/4	683.12	3/4	331.55	3/4	29.30	3/4		3/4	
3	2,465.32	3	2,107.29	3	1,749.26	3	1,391.22	3	1,033.22	3	675.66	3	324.64	3	25.78	3		3	
1/4	2,457.86	1/4	2,099.83	1/4	1,741.80	1/4	1,383.76	1/4	1,025.77	1/4	668.20	1/4	317.73	1/4	22.25	1/4		1/4	
1/2	2,450.40	1/2	2,092.37	1/2	1,734.34	1/2	1,376.31	1/2	1,018.32	1/2	660.74	1/2	310.82	1/2	18.73	1/2		1/2	
3/4	2,442.94	3/4	2,084.91	3/4	1,726.88	3/4	1,368.85	3/4	1,010.87	3/4	653.28	3/4	304.00	3/4		3/4		3/4	
4	2,435.48	4	2,077.45	4	1,719.42	4	1,361.39	4	1,003.42	4	645.82	4	297.18	4		4		4	
1/4	2,428.02	1/4	2,069.99	1/4	1,711.96	1/4	1,353.93	1/4	995.98	1/4	638.36	1/4	290.36	1/4		1/4		1/4	
1/2	2,420.57	1/2	2,062.53	1/2	1,704.50	1/2	1,346.47	1/2	988.53	1/2	630.90	1/2	283.53	1/2		1/2		1/2	
3/4	2,413.11	3/4	2,055.07	3/4	1,697.04	3/4	1,339.01	3/4	981.08	3/4	623.44	3/4	276.80	3/4		3/4		3/4	
5	2,405.65	5	2,047.62	5	1,689.58	5	1,331.55	5	973.64	5	615.99	5	270.07	5		5		5	
1/4	2,398.19	1/4	2,040.16	1/4	1,682.12	1/4	1,324.09	1/4	966.19	1/4	608.53	1/4	263.33	1/4		1/4		1/4	
1/2	2,390.73	1/2	2,032.70	1/2	1,674.67	1/2	1,316.63	1/2	958.75	1/2	601.07	1/2	256.60	1/2		1/2		1/2	
3/4	2,383.27	3/4	2,025.24	3/4	1,667.21	3/4	1,309.17	3/4	951.30	3/4	593.61	3/4	249.95	3/4		3/4		3/4	
6	2,375.81	6	2,017.78	6	1,659.75	6	1,301.72	6	943.86	6	586.15	6	243.31	6		6		6	
1/4	2,368.35	1/4	2,010.32	1/4	1,652.29	1/4	1,294.26	1/4	936.41	1/4	578.69	1/4	236.66	1/4		1/4		1/4	
1/2	2,360.89	1/2	2,002.86	1/2	1,644.83	1/2	1,286.80	1/2	928.97	1/2	571.23	1/2	230.02	1/2		1/2		1/2	
3/4	2,353.43	3/4	1,995.40	3/4	1,637.37	3/4	1,279.34	3/4	921.52	3/4	563.78	3/4	223.46	3/4		3/4		3/4	
7	2,345.98	7	1,987.94	7	1,629.91	7	1,271.88	7	914.08	7	556.33	7	216.90	7		7		7	
1/4	2,338.52	1/4	1,980.48	1/4	1,622.45	1/4	1,264.42	1/4	906.63	1/4	548.87	1/4	210.35	1/4		1/4		1/4	
1/2	2,331.06	1/2	1,973.03	1/2	1,614.99	1/2	1,256.96	1/2	899.19	1/2	541.42	1/2	203.79	1/2		1/2		1/2	
3/4	2,323.60	3/4	1,965.57	3/4	1,607.53	3/4	1,249.50	3/4	891.74	3/4	533.97	3/4	197.32	3/4		3/4		3/4	
8	2,316.14	8	1,958.11	8	1,600.08	8	1,242.04	8	884.30	8	526.52	8	190.85	8		8		8	
1/4	2,308.68	1/4	1,950.65	1/4	1,592.62	1/4	1,234.58	1/4	876.85	1/4	519.07	1/4	184.38	1/4		1/4		1/4	
1/2	2,301.22	1/2	1,943.19	1/2	1,585.16	1/2	1,227.13	1/2	869.41	1/2	511.62	1/2	177.91	1/2		1/2		1/2	
3/4	2,293.76	3/4	1,935.73	3/4	1,577.70	3/4	1,219.67	3/4	861.96	3/4	504.19	3/4	171.53	3/4		3/4		3/4	
9	2,286.30	9	1,928.27	9	1,570.24	9	1,212.21	9	854.52	9	496.77	9	165.15	9		9		9	
1/4	2,278.84	1/4	1,920.81	1/4	1,562.78	1/4	1,204.75	1/4	847.07	1/4	489.34	1/4	158.76	1/4		1/4		1/4	
1/2	2,271.39	1/2	1,913.35	1/2	1,555.32	1/2	1,197.29	1/2	839.63	1/2	481.92	1/2	152.38	1/2		1/2		1/2	
3/4	2,263.93	3/4	1,905.89	3/4	1,547.86	3/4	1,189.83	3/4	832.18	3/4	474.57	3/4	146.09	3/4		3/4		3/4	
10	2,256.47	10	1,898.44	10	1,540.40	10	1,182.37	10	824.74	10	467.22	10	139.80	10		10		10	
1/4	2,249.01	1/4	1,890.98	1/4	1,532.94	1/4	1,174.91	1/4	817.29	1/4	459.87	1/4	133.50	1/4		1/4		1/4	
1/2	2,241.55	1/2	1,883.52	1/2	1,525.49	1/2	1,167.45	1/2	809.85	1/2	452.52	1/2	127.21	1/2		1/2		1/2	
3/4	2,234.09	3/4	1,876.06	3/4	1,518.03	3/4	1,159.99	3/4	802.40	3/4	445.26	3/4	121.00	3/4		3/4		3/4	
11	2,226.63	11	1,868.60	11	1,510.57	11	1,152.54	11	794.96	11	438.00	11	114.80	11		11		11	
1/4	2,219.17	1/4	1,861.14	1/4	1,503.11	1/4	1,145.08	1/4	787.51	1/4	430.74	1/4	108.59	1/4		1/4		1/4	
1/2	2,211.71	1/2	1,853.68	1/2	1,495.65	1/2	1,137.62	1/2	780.07	1/2	423.48	1/2	102.39	1/2		1/2		1/2	
3/4	2,204.25	3/4	1,846.22	3/4	1,488.19	3/4	1,130.16	3/4	772.61	3/4	416.31	3/4	96.27	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/23/2013 CL
RECALCULATED: 07/06/2023 JS
VERIFIED: 06/30/2023 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2023

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



BARGE "KIRBY 29166"

2 PORT
ULLAGE TABLE
"HERMETIC"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMI 30049"

GAUGE HEIGHT 17'-03 1/4"

Table with columns for height (0 FT. to 9 FT.) and gauge (IN, 1/4, 1/2, 3/4). Each cell contains a numerical capacity value in barrels.

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 GUAGING DEVICE
GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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BARGE "KIRBY 29166"

2 PORT ULLAGE TABLE "HERMETIC"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMI 30049"

GAUGE HEIGHT 17'-03 1/4"

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	2,608.14	0	2,248.59	0	1,889.03	0	1,529.47	0	1,170.55	0	824.67	0	465.20	0	105.65	0		0	
1/4	2,600.65	1/4	2,241.10	1/4	1,881.54	1/4	1,521.98	1/4	1,163.27	1/4	817.25	1/4	457.71	1/4	98.16	1/4		1/4	
1/2	2,593.16	1/2	2,233.60	1/2	1,874.05	1/2	1,514.49	1/2	1,156.06	1/2	809.76	1/2	450.22	1/2	90.67	1/2		1/2	
3/4	2,585.67	3/4	2,226.11	3/4	1,866.56	3/4	1,507.00	3/4	1,148.85	3/4	802.27	3/4	442.72	3/4	83.18	3/4		3/4	
1	2,578.18	1	2,218.62	1	1,859.06	1	1,499.51	1	1,141.65	1	794.78	1	435.23	1	75.69	1		1	
1/4	2,570.69	1/4	2,211.13	1/4	1,851.57	1/4	1,492.02	1/4	1,134.44	1/4	787.29	1/4	427.74	1/4	68.19	1/4		1/4	
1/2	2,563.20	1/2	2,203.64	1/2	1,844.08	1/2	1,484.52	1/2	1,127.24	1/2	779.80	1/2	420.25	1/2	61.41	1/2		1/2	
3/4	2,555.71	3/4	2,196.15	3/4	1,836.59	3/4	1,477.03	3/4	1,120.04	3/4	772.31	3/4	412.76	3/4	54.62	3/4		3/4	
2	2,548.22	2	2,188.66	2	1,829.10	2	1,469.54	2	1,112.85	2	764.82	2	405.27	2	47.83	2		2	
1/4	2,540.73	1/4	2,181.17	1/4	1,821.61	1/4	1,462.05	1/4	1,105.65	1/4	757.33	1/4	397.78	1/4	41.04	1/4		1/4	
1/2	2,533.24	1/2	2,173.68	1/2	1,814.12	1/2	1,454.56	1/2	1,098.46	1/2	749.84	1/2	390.29	1/2	35.89	1/2		1/2	
3/4	2,525.75	3/4	2,166.19	3/4	1,806.63	3/4	1,447.07	3/4	1,091.26	3/4	742.35	3/4	382.80	3/4	30.74	3/4		3/4	
3	2,518.25	3	2,158.70	3	1,799.14	3	1,439.58	3	1,084.07	3	734.86	3	375.31	3	25.59	3		3	
1/4	2,510.76	1/4	2,151.21	1/4	1,791.65	1/4	1,432.09	1/4	1,076.88	1/4	727.37	1/4	367.82	1/4	20.44	1/4		1/4	
1/2	2,503.27	1/2	2,143.71	1/2	1,784.16	1/2	1,424.60	1/2	1,069.69	1/2	719.88	1/2	360.33	1/2		1/2		1/2	
3/4	2,495.78	3/4	2,136.22	3/4	1,776.67	3/4	1,417.11	3/4	1,062.50	3/4	712.39	3/4	352.84	3/4		3/4		3/4	
4	2,488.29	4	2,128.73	4	1,769.17	4	1,409.62	4	1,055.31	4	704.90	4	345.35	4	4	4		4	
1/4	2,480.80	1/4	2,121.24	1/4	1,761.68	1/4	1,402.13	1/4	1,048.12	1/4	697.40	1/4	337.86	1/4		1/4		1/4	
1/2	2,473.31	1/2	2,113.75	1/2	1,754.19	1/2	1,394.63	1/2	1,040.94	1/2	689.91	1/2	330.37	1/2		1/2		1/2	
3/4	2,465.82	3/4	2,106.26	3/4	1,746.70	3/4	1,387.14	3/4	1,033.75	3/4	682.42	3/4	322.87	3/4		3/4		3/4	
5	2,458.33	5	2,098.77	5	1,739.21	5	1,379.65	5	1,026.56	5	674.93	5	315.38	5	5	5		5	
1/4	2,450.84	1/4	2,091.28	1/4	1,731.72	1/4	1,372.16	1/4	1,019.38	1/4	667.44	1/4	307.89	1/4		1/4		1/4	
1/2	2,443.35	1/2	2,083.79	1/2	1,724.23	1/2	1,364.67	1/2	1,012.19	1/2	659.95	1/2	300.40	1/2		1/2		1/2	
3/4	2,435.86	3/4	2,076.30	3/4	1,716.74	3/4	1,357.18	3/4	1,005.01	3/4	652.46	3/4	292.91	3/4		3/4		3/4	
6	2,428.37	6	2,068.81	6	1,709.25	6	1,349.69	6	997.82	6	644.97	6	285.42	6	6	6		6	
1/4	2,420.87	1/4	2,061.32	1/4	1,701.76	1/4	1,342.20	1/4	990.63	1/4	637.48	1/4	277.93	1/4		1/4		1/4	
1/2	2,413.38	1/2	2,053.83	1/2	1,694.27	1/2	1,334.71	1/2	983.45	1/2	629.99	1/2	270.44	1/2		1/2		1/2	
3/4	2,405.89	3/4	2,046.33	3/4	1,686.78	3/4	1,327.22	3/4	976.26	3/4	622.50	3/4	262.95	3/4		3/4		3/4	
7	2,398.40	7	2,038.84	7	1,679.29	7	1,319.73	7	969.08	7	615.01	7	255.46	7	7	7		7	
1/4	2,390.91	1/4	2,031.35	1/4	1,671.79	1/4	1,312.24	1/4	961.89	1/4	607.52	1/4	247.97	1/4		1/4		1/4	
1/2	2,383.42	1/2	2,023.86	1/2	1,664.30	1/2	1,304.75	1/2	954.70	1/2	600.03	1/2	240.48	1/2		1/2		1/2	
3/4	2,375.93	3/4	2,016.37	3/4	1,656.81	3/4	1,297.25	3/4	947.52	3/4	592.54	3/4	232.99	3/4		3/4		3/4	
8	2,368.44	8	2,008.88	8	1,649.32	8	1,289.76	8	940.33	8	585.05	8	225.50	8	8	8		8	
1/4	2,360.95	1/4	2,001.39	1/4	1,641.83	1/4	1,282.27	1/4	933.14	1/4	577.56	1/4	218.01	1/4		1/4		1/4	
1/2	2,353.46	1/2	1,993.90	1/2	1,634.34	1/2	1,274.78	1/2	925.96	1/2	570.06	1/2	210.52	1/2		1/2		1/2	
3/4	2,345.97	3/4	1,986.41	3/4	1,626.85	3/4	1,267.29	3/4	918.77	3/4	562.57	3/4	203.03	3/4		3/4		3/4	
9	2,338.48	9	1,978.92	9	1,619.36	9	1,259.80	9	911.59	9	555.08	9	195.53	9	9	9		9	
1/4	2,330.98	1/4	1,971.43	1/4	1,611.87	1/4	1,252.31	1/4	904.40	1/4	547.59	1/4	188.04	1/4		1/4		1/4	
1/2	2,323.49	1/2	1,963.94	1/2	1,604.38	1/2	1,244.82	1/2	897.21	1/2	540.10	1/2	180.55	1/2		1/2		1/2	
3/4	2,316.00	3/4	1,956.44	3/4	1,596.89	3/4	1,237.33	3/4	890.03	3/4	532.61	3/4	173.06	3/4		3/4		3/4	
10	2,308.51	10	1,948.95	10	1,589.40	10	1,229.84	10	882.84	10	525.12	10	165.57	10	10	10		10	
1/4	2,301.02	1/4	1,941.46	1/4	1,581.90	1/4	1,222.35	1/4	875.65	1/4	517.63	1/4	158.08	1/4		1/4		1/4	
1/2	2,293.53	1/2	1,933.97	1/2	1,574.41	1/2	1,214.86	1/2	868.47	1/2	510.14	1/2	150.59	1/2		1/2		1/2	
3/4	2,286.04	3/4	1,926.48	3/4	1,566.92	3/4	1,207.36	3/4	861.28	3/4	502.65	3/4	143.10	3/4		3/4		3/4	
11	2,278.55	11	1,918.99	11	1,559.43	11	1,199.87	11	854.10	11	495.16	11	135.61	11	11	11		11	
1/4	2,271.06	1/4	1,911.50	1/4	1,551.94	1/4	1,192.38	1/4	846.91	1/4	487.67	1/4	128.12	1/4		1/4		1/4	
1/2	2,263.57	1/2	1,904.01	1/2	1,544.45	1/2	1,185.10	1/2	839.50	1/2	480.18	1/2	120.63	1/2		1/2		1/2	
3/4	2,256.08	3/4	1,896.52	3/4	1,536.96	3/4	1,177.83	3/4	832.08	3/4	472.69	3/4	113.14	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/23/2013 CL
RECALCULATED: 07/06/2023 JS
VERIFIED: 06/30/2023 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2023

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



BARGE "KIRBY 29166"

2 STBD ULLAGE TABLE "HERMETIC"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMI 30049"

GAUGE HEIGHT 17'-03 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0		0		0		4,791.99	0	4,433.99	0	4,074.71	0	3,715.35	0	3,355.98	0	2,996.61	
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,784.56	1/4	4,426.52	1/4	4,067.23	1/4	3,707.86	1/4	3,348.49	1/4	2,989.12	
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,777.14	1/2	4,419.06	1/2	4,059.74	1/2	3,700.37	1/2	3,341.01	1/2	2,981.63	
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,769.71	3/4	4,411.59	3/4	4,052.25	3/4	3,693.89	3/4	3,333.52	3/4	2,974.14	
1		1		1		5,098.75	1	4,762.29	1	4,404.11	1	4,044.77	1	3,685.40	1	3,326.03	1	2,966.65	
1/4	1/4	1/4	1/4	1/4	1/4	5,094.26	1/4	4,754.86	1/4	4,396.63	1/4	4,037.28	1/4	3,677.91	1/4	3,318.55	1/4	2,959.16	
1/2	1/2	1/2	1/2	1/2	1/2	5,089.78	1/2	4,747.44	1/2	4,389.15	1/2	4,029.79	1/2	3,670.43	1/2	3,311.06	1/2	2,951.67	
3/4	3/4	3/4	3/4	3/4	3/4	5,085.29	3/4	4,740.01	3/4	4,381.67	3/4	4,022.31	3/4	3,662.94	3/4	3,303.57	3/4	2,944.18	
2		2		2		5,079.73	2	4,732.56	2	4,374.19	2	4,014.82	2	3,655.45	2	3,296.09	2	2,936.69	
1/4	1/4	1/4	1/4	1/4	1/4	5,074.18	1/4	4,725.10	1/4	4,366.70	1/4	4,007.33	1/4	3,647.97	1/4	3,288.60	1/4	2,929.20	
1/2	1/2	1/2	1/2	1/2	1/2	5,068.62	1/2	4,717.65	1/2	4,359.21	1/2	3,999.85	1/2	3,640.48	1/2	3,281.11	1/2	2,921.71	
3/4	3/4	3/4	3/4	3/4	3/4	5,063.06	3/4	4,710.20	3/4	4,351.72	3/4	3,992.36	3/4	3,632.99	3/4	3,273.63	3/4	2,914.22	
3		3		3		5,056.44	3	4,702.73	3	4,344.24	3	3,984.87	3	3,625.51	3	3,266.14	3	2,906.73	
1/4	1/4	1/4	1/4	1/4	1/4	5,049.81	1/4	4,695.27	1/4	4,336.75	1/4	3,977.38	1/4	3,618.02	1/4	3,258.65	1/4	2,899.23	
1/2	1/2	1/2	1/2	1/2	1/2	5,043.18	1/2	4,687.80	1/2	4,329.26	1/2	3,969.90	1/2	3,610.53	1/2	3,251.17	1/2	2,891.74	
3/4	3/4	3/4	3/4	3/4	3/4	5,036.56	3/4	4,680.34	3/4	4,321.78	3/4	3,962.41	3/4	3,603.04	3/4	3,243.68	3/4	2,884.25	
4		4		4		5,029.26	4	4,672.87	4	4,314.29	4	3,954.92	4	3,595.56	4	3,236.19	4	2,876.76	
1/4	1/4	1/4	1/4	1/4	1/4	5,021.97	1/4	4,665.41	1/4	4,306.80	1/4	3,947.44	1/4	3,588.07	1/4	3,228.70	1/4	2,869.27	
1/2	1/2	1/2	1/2	1/2	1/2	5,014.67	1/2	4,657.94	1/2	4,299.32	1/2	3,939.95	1/2	3,580.58	1/2	3,221.22	1/2	2,861.78	
3/4	3/4	3/4	3/4	3/4	3/4	5,007.37	3/4	4,650.48	3/4	4,291.83	3/4	3,932.46	3/4	3,573.10	3/4	3,213.73	3/4	2,854.29	
5		5		5		4,999.95	5	4,643.01	5	4,284.34	5	3,924.98	5	3,565.61	5	3,206.24	5	2,846.80	
1/4	1/4	1/4	1/4	1/4	1/4	4,992.52	1/4	4,635.55	1/4	4,276.86	1/4	3,917.49	1/4	3,558.12	1/4	3,198.76	1/4	2,839.31	
1/2	1/2	1/2	1/2	1/2	1/2	4,985.09	1/2	4,628.08	1/2	4,269.37	1/2	3,910.00	1/2	3,550.64	1/2	3,191.27	1/2	2,831.82	
3/4	3/4	3/4	3/4	3/4	3/4	4,977.66	3/4	4,620.61	3/4	4,261.88	3/4	3,902.52	3/4	3,543.15	3/4	3,183.78	3/4	2,824.33	
6		6		6		4,970.23	6	4,613.15	6	4,254.40	6	3,895.03	6	3,535.66	6	3,176.30	6	2,816.84	
1/4	1/4	1/4	1/4	1/4	1/4	4,962.80	1/4	4,605.68	1/4	4,246.91	1/4	3,887.54	1/4	3,528.18	1/4	3,168.81	1/4	2,809.35	
1/2	1/2	1/2	1/2	1/2	1/2	4,955.37	1/2	4,598.22	1/2	4,239.42	1/2	3,880.06	1/2	3,520.69	1/2	3,161.32	1/2	2,801.85	
3/4	3/4	3/4	3/4	3/4	3/4	4,947.94	3/4	4,590.75	3/4	4,231.94	3/4	3,872.57	3/4	3,513.20	3/4	3,153.84	3/4	2,794.36	
7		7		7		4,940.51	7	4,583.29	7	4,224.45	7	3,865.08	7	3,505.72	7	3,146.35	7	2,786.87	
1/4	1/4	1/4	1/4	1/4	1/4	4,933.08	1/4	4,575.82	1/4	4,216.96	1/4	3,857.60	1/4	3,498.23	1/4	3,138.86	1/4	2,779.38	
1/2	1/2	1/2	1/2	1/2	1/2	4,925.65	1/2	4,568.36	1/2	4,209.48	1/2	3,850.11	1/2	3,490.74	1/2	3,131.38	1/2	2,771.89	
3/4	3/4	3/4	3/4	3/4	3/4	4,918.22	3/4	4,560.89	3/4	4,201.99	3/4	3,842.62	3/4	3,483.26	3/4	3,123.89	3/4	2,764.40	
8		8		8		4,910.80	8	4,553.43	8	4,194.50	8	3,835.14	8	3,475.77	8	3,116.40	8	2,756.91	
1/4	1/4	1/4	1/4	1/4	1/4	4,903.37	1/4	4,545.96	1/4	4,187.02	1/4	3,827.65	1/4	3,468.28	1/4	3,108.92	1/4	2,749.42	
1/2	1/2	1/2	1/2	1/2	1/2	4,895.94	1/2	4,538.50	1/2	4,179.53	1/2	3,820.16	1/2	3,460.80	1/2	3,101.43	1/2	2,741.93	
3/4	3/4	3/4	3/4	3/4	3/4	4,888.52	3/4	4,531.03	3/4	4,172.04	3/4	3,812.68	3/4	3,453.31	3/4	3,093.94	3/4	2,734.44	
9		9		9		4,881.09	9	4,523.57	9	4,164.55	9	3,805.19	9	3,445.82	9	3,086.46	9	2,726.95	
1/4	1/4	1/4	1/4	1/4	1/4	4,873.67	1/4	4,516.10	1/4	4,157.07	1/4	3,797.70	1/4	3,438.34	1/4	3,078.97	1/4	2,719.46	
1/2	1/2	1/2	1/2	1/2	1/2	4,866.24	1/2	4,508.64	1/2	4,149.58	1/2	3,790.21	1/2	3,430.85	1/2	3,071.48	1/2	2,711.96	
3/4	3/4	3/4	3/4	3/4	3/4	4,858.82	3/4	4,501.17	3/4	4,142.09	3/4	3,782.73	3/4	3,423.36	3/4	3,064.00	3/4	2,704.47	
10		10		10		4,851.39	10	4,493.71	10	4,134.61	10	3,775.24	10	3,415.87	10	3,056.51	10	2,696.98	
1/4	1/4	1/4	1/4	1/4	1/4	4,843.97	1/4	4,486.24	1/4	4,127.12	1/4	3,767.75	1/4	3,408.39	1/4	3,049.02	1/4	2,689.49	
1/2	1/2	1/2	1/2	1/2	1/2	4,836.54	1/2	4,478.78	1/2	4,119.63	1/2	3,760.27	1/2	3,400.90	1/2	3,041.53	1/2	2,682.00	
3/4	3/4	3/4	3/4	3/4	3/4	4,829.12	3/4	4,471.31	3/4	4,112.15	3/4	3,752.78	3/4	3,393.41	3/4	3,034.05	3/4	2,674.51	
11		11		11		4,821.69	11	4,463.85	11	4,104.66	11	3,745.29	11	3,385.93	11	3,026.56	11	2,667.02	
1/4	1/4	1/4	1/4	1/4	1/4	4,814.27	1/4	4,456.38	1/4	4,097.17	1/4	3,737.81	1/4	3,378.44	1/4	3,019.07	1/4	2,659.53	
1/2	1/2	1/2	1/2	1/2	1/2	4,806.84	1/2	4,448.92	1/2	4,089.69	1/2	3,730.32	1/2	3,370.95	1/2	3,011.59	1/2	2,652.04	
3/4	3/4	3/4	3/4	3/4	3/4	4,799.42	3/4	4,441.45	3/4	4,082.20	3/4	3,722.83	3/4	3,363.47	3/4	3,004.10	3/4	2,644.55	

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 GUAGING DEVICE
GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-06" FORWARD OF AFT BULKHEAD.

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



BARGE "KIRBY 29166"

2 STBD ULLAGE TABLE "HERMETIC"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMI 30049"

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	2,637.06	0	2,277.50	0	1,917.94	0	1,558.38	0	1,198.82	0	839.72	0	480.18	0	120.63	0		0	
1/4	2,629.57	1/4	2,270.01	1/4	1,910.45	1/4	1,550.89	1/4	1,191.33	1/4	832.23	1/4	472.69	1/4	113.14	1/4		1/4	
1/2	2,622.08	1/2	2,262.52	1/2	1,902.96	1/2	1,543.40	1/2	1,183.84	1/2	824.74	1/2	465.20	1/2	105.65	1/2		1/2	
3/4	2,614.58	3/4	2,255.03	3/4	1,895.47	3/4	1,535.91	3/4	1,176.35	3/4	817.26	3/4	457.71	3/4	98.16	3/4		3/4	
1	2,607.09	1	2,247.54	1	1,887.98	1	1,528.42	1	1,168.86	1	809.77	1	450.22	1	90.67	1		1	
1/4	2,599.60	1/4	2,240.04	1/4	1,880.49	1/4	1,520.93	1/4	1,161.37	1/4	802.27	1/4	442.73	1/4	83.18	1/4		1/4	
1/2	2,592.11	1/2	2,232.55	1/2	1,873.00	1/2	1,513.44	1/2	1,153.88	1/2	794.78	1/2	435.24	1/2	75.69	1/2		1/2	
3/4	2,584.62	3/4	2,225.06	3/4	1,865.50	3/4	1,505.95	3/4	1,146.39	3/4	787.29	3/4	427.74	3/4	68.20	3/4		3/4	
2	2,577.13	2	2,217.57	2	1,858.01	2	1,498.46	2	1,138.90	2	779.80	2	420.25	2	61.41	2		2	
1/4	2,569.64	1/4	2,210.08	1/4	1,850.52	1/4	1,490.96	1/4	1,131.41	1/4	772.31	1/4	412.76	1/4	54.62	1/4		1/4	
1/2	2,562.15	1/2	2,202.59	1/2	1,843.03	1/2	1,483.47	1/2	1,123.93	1/2	764.82	1/2	405.27	1/2	47.83	1/2		1/2	
3/4	2,554.66	3/4	2,195.10	3/4	1,835.54	3/4	1,475.98	3/4	1,116.44	3/4	757.33	3/4	397.78	3/4	41.04	3/4		3/4	
3	2,547.17	3	2,187.61	3	1,828.05	3	1,468.49	3	1,108.96	3	749.84	3	390.29	3	35.89	3		3	
1/4	2,539.68	1/4	2,180.12	1/4	1,820.56	1/4	1,461.00	1/4	1,101.47	1/4	742.35	1/4	382.80	1/4	30.74	1/4		1/4	
1/2	2,532.19	1/2	2,172.63	1/2	1,813.07	1/2	1,453.51	1/2	1,093.99	1/2	734.86	1/2	375.31	1/2	25.59	1/2		1/2	
3/4	2,524.69	3/4	2,165.14	3/4	1,805.58	3/4	1,446.02	3/4	1,086.50	3/4	727.37	3/4	367.82	3/4	20.44	3/4		3/4	
4	2,517.20	4	2,157.65	4	1,798.09	4	1,438.53	4	1,079.02	4	719.88	4	360.33	4		4		4	
1/4	2,509.71	1/4	2,150.15	1/4	1,790.60	1/4	1,431.04	1/4	1,071.54	1/4	712.39	1/4	352.84	1/4		1/4		1/4	
1/2	2,502.22	1/2	2,142.66	1/2	1,783.11	1/2	1,423.55	1/2	1,064.06	1/2	704.90	1/2	345.35	1/2		1/2		1/2	
3/4	2,494.73	3/4	2,135.17	3/4	1,775.61	3/4	1,416.06	3/4	1,056.58	3/4	697.41	3/4	337.86	3/4		3/4		3/4	
5	2,487.24	5	2,127.68	5	1,768.12	5	1,408.57	5	1,049.11	5	689.92	5	330.37	5		5		5	
1/4	2,479.75	1/4	2,120.19	1/4	1,760.63	1/4	1,401.07	1/4	1,041.63	1/4	682.42	1/4	322.88	1/4		1/4		1/4	
1/2	2,472.26	1/2	2,112.70	1/2	1,753.14	1/2	1,393.58	1/2	1,034.15	1/2	674.93	1/2	315.39	1/2		1/2		1/2	
3/4	2,464.77	3/4	2,105.21	3/4	1,745.65	3/4	1,386.09	3/4	1,026.67	3/4	667.44	3/4	307.89	3/4		3/4		3/4	
6	2,457.28	6	2,097.72	6	1,738.16	6	1,378.60	6	1,019.19	6	659.95	6	300.40	6		6		6	
1/4	2,449.79	1/4	2,090.23	1/4	1,730.67	1/4	1,371.11	1/4	1,011.72	1/4	652.46	1/4	292.91	1/4		1/4		1/4	
1/2	2,442.30	1/2	2,082.74	1/2	1,723.18	1/2	1,363.62	1/2	1,004.24	1/2	644.97	1/2	285.42	1/2		1/2		1/2	
3/4	2,434.81	3/4	2,075.25	3/4	1,715.69	3/4	1,356.13	3/4	996.76	3/4	637.48	3/4	277.93	3/4		3/4		3/4	
7	2,427.31	7	2,067.76	7	1,708.20	7	1,348.64	7	989.28	7	629.99	7	270.44	7		7		7	
1/4	2,419.82	1/4	2,060.27	1/4	1,700.71	1/4	1,341.15	1/4	981.81	1/4	622.50	1/4	262.95	1/4		1/4		1/4	
1/2	2,412.33	1/2	2,052.77	1/2	1,693.22	1/2	1,333.66	1/2	974.33	1/2	615.01	1/2	255.46	1/2		1/2		1/2	
3/4	2,404.84	3/4	2,045.28	3/4	1,685.73	3/4	1,326.17	3/4	966.85	3/4	607.52	3/4	247.97	3/4		3/4		3/4	
8	2,397.35	8	2,037.79	8	1,678.23	8	1,318.68	8	959.37	8	600.03	8	240.48	8		8		8	
1/4	2,389.86	1/4	2,030.30	1/4	1,670.74	1/4	1,311.19	1/4	951.89	1/4	592.54	1/4	232.99	1/4		1/4		1/4	
1/2	2,382.37	1/2	2,022.81	1/2	1,663.25	1/2	1,303.69	1/2	944.42	1/2	585.05	1/2	225.50	1/2		1/2		1/2	
3/4	2,374.88	3/4	2,015.32	3/4	1,655.76	3/4	1,296.20	3/4	936.94	3/4	577.56	3/4	218.01	3/4		3/4		3/4	
9	2,367.39	9	2,007.83	9	1,648.27	9	1,288.71	9	929.46	9	570.07	9	210.52	9		9		9	
1/4	2,359.90	1/4	2,000.34	1/4	1,640.78	1/4	1,281.22	1/4	921.98	1/4	562.58	1/4	203.03	1/4		1/4		1/4	
1/2	2,352.41	1/2	1,992.85	1/2	1,633.29	1/2	1,273.73	1/2	914.50	1/2	555.08	1/2	195.54	1/2		1/2		1/2	
3/4	2,344.92	3/4	1,985.36	3/4	1,625.80	3/4	1,266.24	3/4	907.03	3/4	547.59	3/4	188.05	3/4		3/4		3/4	
10	2,337.42	10	1,977.87	10	1,618.31	10	1,258.75	10	899.55	10	540.10	10	180.55	10		10		10	
1/4	2,329.93	1/4	1,970.38	1/4	1,610.82	1/4	1,251.26	1/4	892.07	1/4	532.61	1/4	173.06	1/4		1/4		1/4	
1/2	2,322.44	1/2	1,962.88	1/2	1,603.33	1/2	1,243.77	1/2	884.59	1/2	525.12	1/2	165.57	1/2		1/2		1/2	
3/4	2,314.95	3/4	1,955.39	3/4	1,595.84	3/4	1,236.28	3/4	877.11	3/4	517.63	3/4	158.08	3/4		3/4		3/4	
11	2,307.46	11	1,947.90	11	1,588.34	11	1,228.79	11	869.64	11	510.14	11	150.59	11		11		11	
1/4	2,299.97	1/4	1,940.41	1/4	1,580.85	1/4	1,221.30	1/4	862.16	1/4	502.65	1/4	143.10	1/4		1/4		1/4	
1/2	2,292.48	1/2	1,932.92	1/2	1,573.36	1/2	1,213.80	1/2	854.68	1/2	495.16	1/2	135.61	1/2		1/2		1/2	
3/4	2,284.99	3/4	1,925.43	3/4	1,565.87	3/4	1,206.31	3/4	847.20	3/4	487.67	3/4	128.12	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/23/2013 CL
RECALCULATED: 07/06/2023 JS
VERIFIED: 06/30/2023 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2023

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



BARGE "KIRBY 29166"

3 PORT ULLAGE TABLE "HERMETIC"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMI 30049"

GAUGE HEIGHT 17'-03 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0		0		0		0	4,294.52	0	4,076.32	0	3,857.26	0	3,638.15	0	3,316.54	0	2,960.27		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,289.99	1/4	4,071.77	1/4	3,852.70	1/4	3,633.59	1/4	3,309.13	1/4	2,952.84		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,285.47	1/2	4,067.22	1/2	3,848.13	1/2	3,629.02	1/2	3,301.73	1/2	2,945.41		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,280.95	3/4	4,062.67	3/4	3,843.57	3/4	3,624.46	3/4	3,294.32	3/4	2,937.98		
1		1		1		1	4,474.39	1	4,276.42	1	4,058.11	1	3,839.01	1	3,619.89	1	3,286.92	1	2,930.56		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,472.54	1/4	4,271.90	1/4	4,053.54	1/4	3,834.44	1/4	3,615.33	1/4	3,279.51	1/4	2,923.13		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,470.69	1/2	4,267.38	1/2	4,048.98	1/2	3,829.88	1/2	3,610.77	1/2	3,272.11	1/2	2,915.70		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,468.85	3/4	4,262.85	3/4	4,044.42	3/4	3,825.31	3/4	3,606.20	3/4	3,264.70	3/4	2,908.27		
2		2		2		2	4,466.18	2	4,258.31	2	4,039.86	2	3,820.75	2	3,601.64	2	3,257.28	2	2,900.84		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,463.52	1/4	4,253.77	1/4	4,035.29	1/4	3,816.18	1/4	3,597.07	1/4	3,249.86	1/4	2,893.41		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,460.86	1/2	4,249.22	1/2	4,030.73	1/2	3,811.62	1/2	3,592.51	1/2	3,242.44	1/2	2,885.98		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,458.20	3/4	4,244.68	3/4	4,026.16	3/4	3,807.05	3/4	3,587.94	3/4	3,235.02	3/4	2,878.56		
3		3		3		3	4,454.47	3	4,240.13	3	4,021.60	3	3,802.49	3	3,581.22	3	3,227.60	3	2,871.13		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,450.74	1/4	4,235.58	1/4	4,017.03	1/4	3,797.92	1/4	3,574.49	1/4	3,220.17	1/4	2,863.70		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,447.01	1/2	4,231.03	1/2	4,012.47	1/2	3,793.36	1/2	3,567.76	1/2	3,212.75	1/2	2,856.27		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,443.29	3/4	4,226.48	3/4	4,007.90	3/4	3,788.79	3/4	3,561.04	3/4	3,205.32	3/4	2,848.84		
4		4		4		4	4,438.89	4	4,221.93	4	4,003.34	4	3,784.23	4	3,553.61	4	3,197.89	4	2,841.41		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,434.50	1/4	4,217.38	1/4	3,998.77	1/4	3,779.66	1/4	3,546.19	1/4	3,190.47	1/4	2,833.99		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,430.11	1/2	4,212.83	1/2	3,994.21	1/2	3,775.10	1/2	3,538.76	1/2	3,183.04	1/2	2,826.56		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,425.72	3/4	4,208.28	3/4	3,989.64	3/4	3,770.53	3/4	3,531.34	3/4	3,175.62	3/4	2,819.13		
5		5		5		5	4,421.19	5	4,203.73	5	3,985.08	5	3,765.97	5	3,523.92	5	3,168.19	5	2,811.70		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,416.67	1/4	4,199.18	1/4	3,980.51	1/4	3,761.40	1/4	3,516.51	1/4	3,160.77	1/4	2,804.27		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,412.14	1/2	4,194.63	1/2	3,975.95	1/2	3,756.84	1/2	3,509.09	1/2	3,153.34	1/2	2,796.84		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,407.61	3/4	4,190.08	3/4	3,971.38	3/4	3,752.27	3/4	3,501.67	3/4	3,145.91	3/4	2,789.42		
6		6		6		6	4,403.09	6	4,185.52	6	3,966.82	6	3,747.71	6	3,494.27	6	3,138.49	6	2,781.99		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,398.56	1/4	4,180.97	1/4	3,962.25	1/4	3,743.14	1/4	3,486.86	1/4	3,131.06	1/4	2,774.56		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,394.04	1/2	4,176.42	1/2	3,957.69	1/2	3,738.58	1/2	3,479.45	1/2	3,123.64	1/2	2,767.13		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,389.51	3/4	4,171.87	3/4	3,953.13	3/4	3,734.01	3/4	3,472.04	3/4	3,116.21	3/4	2,759.70		
7		7		7		7	4,384.99	7	4,167.32	7	3,948.56	7	3,729.45	7	3,464.64	7	3,108.78	7	2,752.27		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,380.46	1/4	4,162.77	1/4	3,944.00	1/4	3,724.89	1/4	3,457.23	1/4	3,101.36	1/4	2,744.85		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,375.93	1/2	4,158.22	1/2	3,939.43	1/2	3,720.32	1/2	3,449.83	1/2	3,093.93	1/2	2,737.42		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,371.41	3/4	4,153.67	3/4	3,934.87	3/4	3,715.76	3/4	3,442.42	3/4	3,086.51	3/4	2,729.99		
8		8		8		8	4,366.89	8	4,149.12	8	3,930.30	8	3,711.19	8	3,435.02	8	3,079.08	8	2,722.56		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,362.36	1/4	4,144.57	1/4	3,925.74	1/4	3,706.63	1/4	3,427.61	1/4	3,071.66	1/4	2,715.13		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,357.84	1/2	4,140.02	1/2	3,921.17	1/2	3,702.06	1/2	3,420.21	1/2	3,064.23	1/2	2,707.70		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,353.31	3/4	4,135.47	3/4	3,916.61	3/4	3,697.50	3/4	3,412.80	3/4	3,056.80	3/4	2,700.27		
9		9		9		9	4,348.79	9	4,130.92	9	3,912.04	9	3,692.93	9	3,405.40	9	3,049.38	9	2,692.85		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,344.27	1/4	4,126.37	1/4	3,907.48	1/4	3,688.37	1/4	3,397.99	1/4	3,041.95	1/4	2,685.42		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,339.75	1/2	4,121.82	1/2	3,902.91	1/2	3,683.80	1/2	3,390.59	1/2	3,034.53	1/2	2,677.99		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,335.22	3/4	4,117.27	3/4	3,898.35	3/4	3,679.24	3/4	3,383.18	3/4	3,027.10	3/4	2,670.56		
10		10		10		10	4,330.70	10	4,112.72	10	3,893.78	10	3,674.67	10	3,375.78	10	3,019.67	10	2,663.13		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,326.18	1/4	4,108.17	1/4	3,889.22	1/4	3,670.11	1/4	3,368.37	1/4	3,012.25	1/4	2,655.70		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,321.65	1/2	4,103.62	1/2	3,884.65	1/2	3,665.54	1/2	3,360.97	1/2	3,004.82	1/2	2,648.28		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,317.13	3/4	4,099.07	3/4	3,880.09	3/4	3,660.98	3/4	3,353.56	3/4	2,997.40	3/4	2,640.85		
11		11		11		11	4,312.61	11	4,094.52	11	3,875.52	11	3,656.41	11	3,346.16	11	2,989.97	11	2,633.42		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,308.08	1/4	4,089.97	1/4	3,870.96	1/4	3,651.85	1/4	3,338.75	1/4	2,982.55	1/4	2,625.99		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,303.56	1/2	4,085.42	1/2	3,866.39	1/2	3,647.28	1/2	3,331.35	1/2	2,975.12	1/2	2,618.56		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,299.04	3/4	4,080.87	3/4	3,861.83	3/4	3,642.72	3/4	3,323.94	3/4	2,967.69	3/4	2,611.13		

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 GUAGING DEVICE

GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-00" FORWARD OF AFT BULKHEAD.

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



BARGE "KIRBY 29166"

3 PORT ULLAGE TABLE "HERMETIC"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMI 30049"

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	2,603.70	0	2,248.04	0	1,894.08	0	1,537.21	0	1,180.45	0	834.01	0	477.07	0	119.98	0		0	
1/4	2,596.27	1/4	2,240.66	1/4	1,886.66	1/4	1,529.77	1/4	1,173.17	1/4	826.63	1/4	469.63	1/4	112.53	1/4		1/4	
1/2	2,588.83	1/2	2,233.28	1/2	1,879.24	1/2	1,522.34	1/2	1,165.89	1/2	819.24	1/2	462.19	1/2	105.09	1/2		1/2	
3/4	2,581.40	3/4	2,225.90	3/4	1,871.82	3/4	1,514.90	3/4	1,158.61	3/4	811.86	3/4	454.75	3/4	97.64	3/4		3/4	
1	2,573.96	1	2,218.53	1	1,864.39	1	1,507.47	1	1,151.39	1	804.42	1	447.31	1	90.19	1		1	
1/4	2,566.53	1/4	2,211.16	1/4	1,856.95	1/4	1,500.03	1/4	1,144.16	1/4	796.98	1/4	439.87	1/4	82.74	1/4		1/4	
1/2	2,559.09	1/2	2,203.78	1/2	1,849.51	1/2	1,492.60	1/2	1,136.94	1/2	789.54	1/2	432.43	1/2	75.29	1/2		1/2	
3/4	2,551.66	3/4	2,196.41	3/4	1,842.08	3/4	1,485.16	3/4	1,129.71	3/4	782.10	3/4	424.99	3/4	67.84	3/4		3/4	
2	2,544.22	2	2,189.04	2	1,834.64	2	1,477.72	2	1,122.50	2	774.66	2	417.56	2	61.09	2		2	
1/4	2,536.79	1/4	2,181.67	1/4	1,827.21	1/4	1,470.29	1/4	1,115.28	1/4	767.22	1/4	410.12	1/4	54.33	1/4		1/4	
1/2	2,529.35	1/2	2,174.29	1/2	1,819.77	1/2	1,462.85	1/2	1,108.06	1/2	759.78	1/2	402.68	1/2	47.58	1/2		1/2	
3/4	2,521.91	3/4	2,166.92	3/4	1,812.33	3/4	1,455.42	3/4	1,100.85	3/4	752.34	3/4	395.24	3/4	40.83	3/4		3/4	
3	2,514.48	3	2,159.55	3	1,804.90	3	1,447.98	3	1,093.63	3	744.90	3	387.80	3	35.70	3		3	
1/4	2,507.04	1/4	2,152.17	1/4	1,797.46	1/4	1,440.54	1/4	1,086.42	1/4	737.46	1/4	380.36	1/4	30.58	1/4		1/4	
1/2	2,499.61	1/2	2,144.80	1/2	1,790.03	1/2	1,433.11	1/2	1,079.21	1/2	730.02	1/2	372.92	1/2	25.46	1/2		1/2	
3/4	2,492.17	3/4	2,137.43	3/4	1,782.59	3/4	1,425.67	3/4	1,071.99	3/4	722.58	3/4	365.49	3/4	20.34	3/4		3/4	
4	2,484.76	4	2,130.06	4	1,775.16	4	1,418.24	4	1,064.78	4	715.14	4	358.05	4		4		4	
1/4	2,477.36	1/4	2,122.68	1/4	1,767.72	1/4	1,410.80	1/4	1,057.57	1/4	707.70	1/4	350.61	1/4		1/4		1/4	
1/2	2,469.95	1/2	2,115.31	1/2	1,760.28	1/2	1,403.37	1/2	1,050.37	1/2	700.26	1/2	343.17	1/2		1/2		1/2	
3/4	2,462.54	3/4	2,107.94	3/4	1,752.85	3/4	1,395.93	3/4	1,043.16	3/4	692.82	3/4	335.73	3/4		3/4		3/4	
5	2,455.15	5	2,100.56	5	1,745.41	5	1,388.49	5	1,035.95	5	685.38	5	328.29	5		5		5	
1/4	2,447.75	1/4	2,093.19	1/4	1,737.98	1/4	1,381.06	1/4	1,028.75	1/4	677.94	1/4	320.85	1/4		1/4		1/4	
1/2	2,440.35	1/2	2,085.82	1/2	1,730.54	1/2	1,373.62	1/2	1,021.54	1/2	670.50	1/2	313.42	1/2		1/2		1/2	
3/4	2,432.95	3/4	2,078.45	3/4	1,723.10	3/4	1,366.19	3/4	1,014.33	3/4	663.06	3/4	305.98	3/4		3/4		3/4	
6	2,425.56	6	2,071.07	6	1,715.67	6	1,358.75	6	1,007.13	6	655.62	6	298.54	6		6		6	
1/4	2,418.16	1/4	2,063.70	1/4	1,708.23	1/4	1,351.31	1/4	999.92	1/4	648.18	1/4	291.10	1/4		1/4		1/4	
1/2	2,410.76	1/2	2,056.33	1/2	1,700.80	1/2	1,343.88	1/2	992.71	1/2	640.74	1/2	283.66	1/2		1/2		1/2	
3/4	2,403.37	3/4	2,048.95	3/4	1,693.36	3/4	1,336.44	3/4	985.51	3/4	633.30	3/4	276.22	3/4		3/4		3/4	
7	2,395.97	7	2,041.58	7	1,685.93	7	1,329.01	7	978.30	7	625.86	7	268.78	7		7		7	
1/4	2,388.57	1/4	2,034.21	1/4	1,678.49	1/4	1,321.57	1/4	971.10	1/4	618.42	1/4	261.35	1/4		1/4		1/4	
1/2	2,381.17	1/2	2,026.83	1/2	1,671.05	1/2	1,314.14	1/2	963.89	1/2	610.98	1/2	253.91	1/2		1/2		1/2	
3/4	2,373.78	3/4	2,019.46	3/4	1,663.62	3/4	1,306.70	3/4	956.68	3/4	603.54	3/4	246.47	3/4		3/4		3/4	
8	2,366.38	8	2,012.09	8	1,656.18	8	1,299.26	8	949.48	8	596.10	8	239.03	8		8		8	
1/4	2,358.98	1/4	2,004.72	1/4	1,648.75	1/4	1,291.83	1/4	942.27	1/4	588.66	1/4	231.59	1/4		1/4		1/4	
1/2	2,351.58	1/2	1,997.34	1/2	1,641.31	1/2	1,284.39	1/2	935.07	1/2	581.22	1/2	224.15	1/2		1/2		1/2	
3/4	2,344.19	3/4	1,989.97	3/4	1,633.88	3/4	1,276.96	3/4	927.86	3/4	573.78	3/4	216.71	3/4		3/4		3/4	
9	2,336.79	9	1,982.60	9	1,626.44	9	1,269.52	9	920.65	9	566.34	9	209.27	9		9		9	
1/4	2,329.39	1/4	1,975.22	1/4	1,619.00	1/4	1,262.09	1/4	913.45	1/4	558.90	1/4	201.83	1/4		1/4		1/4	
1/2	2,322.00	1/2	1,967.85	1/2	1,611.57	1/2	1,254.65	1/2	906.24	1/2	551.46	1/2	194.39	1/2		1/2		1/2	
3/4	2,314.60	3/4	1,960.48	3/4	1,604.13	3/4	1,247.21	3/4	899.04	3/4	544.02	3/4	186.95	3/4		3/4		3/4	
10	2,307.20	10	1,953.11	10	1,596.70	10	1,239.78	10	891.83	10	536.58	10	179.51	10		10		10	
1/4	2,299.80	1/4	1,945.73	1/4	1,589.26	1/4	1,232.34	1/4	884.62	1/4	529.14	1/4	172.07	1/4		1/4		1/4	
1/2	2,292.41	1/2	1,938.36	1/2	1,581.82	1/2	1,224.91	1/2	877.42	1/2	521.70	1/2	164.63	1/2		1/2		1/2	
3/4	2,285.01	3/4	1,930.99	3/4	1,574.39	3/4	1,217.47	3/4	870.21	3/4	514.26	3/4	157.19	3/4		3/4		3/4	
11	2,277.61	11	1,923.61	11	1,566.95	11	1,210.03	11	863.00	11	506.82	11	149.75	11		11		11	
1/4	2,270.21	1/4	1,916.24	1/4	1,559.52	1/4	1,202.60	1/4	855.80	1/4	499.38	1/4	142.31	1/4		1/4		1/4	
1/2	2,262.82	1/2	1,908.87	1/2	1,552.08	1/2	1,195.16	1/2	848.59	1/2	491.94	1/2	134.86	1/2		1/2		1/2	
3/4	2,255.42	3/4	1,901.50	3/4	1,544.65	3/4	1,187.73	3/4	841.39	3/4	484.50	3/4	127.42	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/23/2013 CL
RECALCULATED: 07/06/2023 JS
VERIFIED: 06/30/2023 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2023

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



BARGE "KIRBY 29166"

3 STBD

ULLAGE TABLE

"HERMETIC"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMI 30049"

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	4,315.96	0	4,097.79	0	3,878.78	0	3,659.70	0	3,337.66	0	2,980.61
1/4		1/4		1/4		1/4		1/4	4,311.44	1/4	4,093.25	1/4	3,874.21	1/4	3,655.13	1/4	3,330.24	1/4	2,973.17
1/2		1/2		1/2		1/2		1/2	4,306.91	1/2	4,088.70	1/2	3,869.65	1/2	3,650.57	1/2	3,322.82	1/2	2,965.73
3/4		3/4		3/4		3/4		3/4	4,302.39	3/4	4,084.15	3/4	3,865.08	3/4	3,646.01	3/4	3,315.40	3/4	2,958.28
1		1		1		1	4,495.81	1	4,297.87	1	4,079.59	1	3,860.52	1	3,641.44	1	3,307.98	1	2,950.84
1/4		1/4		1/4		1/4	4,493.96	1/4	4,293.35	1/4	4,075.02	1/4	3,855.95	1/4	3,636.88	1/4	3,300.56	1/4	2,943.39
1/2		1/2		1/2		1/2	4,492.12	1/2	4,288.82	1/2	4,070.46	1/2	3,851.39	1/2	3,632.31	1/2	3,293.14	1/2	2,935.95
3/4		3/4		3/4		3/4	4,490.27	3/4	4,284.30	3/4	4,065.90	3/4	3,846.83	3/4	3,627.75	3/4	3,285.71	3/4	2,928.50
2		2		2		2	4,487.61	2	4,279.76	2	4,061.34	2	3,842.26	2	3,623.19	2	3,278.28	2	2,921.06
1/4		1/4		1/4		1/4	4,484.94	1/4	4,275.22	1/4	4,056.78	1/4	3,837.70	1/4	3,618.62	1/4	3,270.84	1/4	2,913.61
1/2		1/2		1/2		1/2	4,482.28	1/2	4,270.67	1/2	4,052.21	1/2	3,833.13	1/2	3,614.06	1/2	3,263.40	1/2	2,906.17
3/4		3/4		3/4		3/4	4,479.62	3/4	4,266.13	3/4	4,047.65	3/4	3,828.57	3/4	3,609.49	3/4	3,255.97	3/4	2,898.72
3		3		3		3	4,475.89	3	4,261.58	3	4,043.08	3	3,824.01	3	3,602.77	3	3,248.53	3	2,891.28
1/4		1/4		1/4		1/4	4,472.16	1/4	4,257.03	1/4	4,038.52	1/4	3,819.44	1/4	3,596.04	1/4	3,241.08	1/4	2,883.84
1/2		1/2		1/2		1/2	4,468.44	1/2	4,252.48	1/2	4,033.95	1/2	3,814.88	1/2	3,589.32	1/2	3,233.64	1/2	2,876.39
3/4		3/4		3/4		3/4	4,464.71	3/4	4,247.93	3/4	4,029.39	3/4	3,810.31	3/4	3,582.59	3/4	3,226.20	3/4	2,868.95
4		4		4		4	4,460.32	4	4,243.38	4	4,024.83	4	3,805.75	4	3,575.16	4	3,218.76	4	2,861.50
1/4		1/4		1/4		1/4	4,455.92	1/4	4,238.83	1/4	4,020.26	1/4	3,801.19	1/4	3,567.74	1/4	3,211.32	1/4	2,854.06
1/2		1/2		1/2		1/2	4,451.53	1/2	4,234.28	1/2	4,015.70	1/2	3,796.62	1/2	3,560.31	1/2	3,203.87	1/2	2,846.61
3/4		3/4		3/4		3/4	4,447.14	3/4	4,229.73	3/4	4,011.13	3/4	3,792.06	3/4	3,552.88	3/4	3,196.43	3/4	2,839.17
5		5		5		5	4,442.61	5	4,225.18	5	4,006.57	5	3,787.49	5	3,545.46	5	3,188.99	5	2,831.72
1/4		1/4		1/4		1/4	4,438.09	1/4	4,220.63	1/4	4,002.01	1/4	3,782.93	1/4	3,538.04	1/4	3,181.55	1/4	2,824.28
1/2		1/2		1/2		1/2	4,433.56	1/2	4,216.08	1/2	3,997.44	1/2	3,778.37	1/2	3,530.62	1/2	3,174.11	1/2	2,816.83
3/4		3/4		3/4		3/4	4,429.04	3/4	4,211.53	3/4	3,992.88	3/4	3,773.80	3/4	3,523.20	3/4	3,166.66	3/4	2,809.39
6		6		6		6	4,424.51	6	4,206.99	6	3,988.31	6	3,769.24	6	3,515.78	6	3,159.22	6	2,801.94
1/4		1/4		1/4		1/4	4,419.99	1/4	4,202.44	1/4	3,983.75	1/4	3,764.67	1/4	3,508.35	1/4	3,151.78	1/4	2,794.50
1/2		1/2		1/2		1/2	4,415.46	1/2	4,197.89	1/2	3,979.19	1/2	3,760.11	1/2	3,500.93	1/2	3,144.34	1/2	2,787.05
3/4		3/4		3/4		3/4	4,410.94	3/4	4,193.34	3/4	3,974.62	3/4	3,755.54	3/4	3,493.51	3/4	3,136.90	3/4	2,779.61
7		7		7		7	4,406.41	7	4,188.79	7	3,970.06	7	3,750.98	7	3,486.09	7	3,129.45	7	2,772.16
1/4		1/4		1/4		1/4	4,401.89	1/4	4,184.24	1/4	3,965.49	1/4	3,746.42	1/4	3,478.67	1/4	3,122.01	1/4	2,764.72
1/2		1/2		1/2		1/2	4,397.36	1/2	4,179.69	1/2	3,960.93	1/2	3,741.85	1/2	3,471.25	1/2	3,114.57	1/2	2,757.28
3/4		3/4		3/4		3/4	4,392.84	3/4	4,175.14	3/4	3,956.37	3/4	3,737.29	3/4	3,463.83	3/4	3,107.13	3/4	2,749.83
8		8		8		8	4,388.32	8	4,170.59	8	3,951.80	8	3,732.72	8	3,456.40	8	3,099.69	8	2,742.39
1/4		1/4		1/4		1/4	4,383.79	1/4	4,166.04	1/4	3,947.24	1/4	3,728.16	1/4	3,448.98	1/4	3,092.24	1/4	2,734.94
1/2		1/2		1/2		1/2	4,379.27	1/2	4,161.49	1/2	3,942.67	1/2	3,723.60	1/2	3,441.56	1/2	3,084.80	1/2	2,727.50
3/4		3/4		3/4		3/4	4,374.75	3/4	4,156.94	3/4	3,938.11	3/4	3,719.03	3/4	3,434.14	3/4	3,077.36	3/4	2,720.05
9		9		9		9	4,370.22	9	4,152.39	9	3,933.54	9	3,714.47	9	3,426.72	9	3,069.92	9	2,712.61
1/4		1/4		1/4		1/4	4,365.70	1/4	4,147.84	1/4	3,928.98	1/4	3,709.90	1/4	3,419.30	1/4	3,062.48	1/4	2,705.16
1/2		1/2		1/2		1/2	4,361.18	1/2	4,143.29	1/2	3,924.42	1/2	3,705.34	1/2	3,411.88	1/2	3,055.03	1/2	2,697.72
3/4		3/4		3/4		3/4	4,356.66	3/4	4,138.74	3/4	3,919.85	3/4	3,700.78	3/4	3,404.46	3/4	3,047.59	3/4	2,690.27
10		10		10		10	4,352.13	10	4,134.19	10	3,915.29	10	3,696.21	10	3,397.03	10	3,040.15	10	2,682.83
1/4		1/4		1/4		1/4	4,347.61	1/4	4,129.64	1/4	3,910.72	1/4	3,691.65	1/4	3,389.61	1/4	3,032.71	1/4	2,675.38
1/2		1/2		1/2		1/2	4,343.09	1/2	4,125.09	1/2	3,906.16	1/2	3,687.08	1/2	3,382.19	1/2	3,025.27	1/2	2,667.94
3/4		3/4		3/4		3/4	4,338.57	3/4	4,120.54	3/4	3,901.60	3/4	3,682.52	3/4	3,374.77	3/4	3,017.82	3/4	2,660.49
11		11		11		11	4,334.05	11	4,115.99	11	3,897.03	11	3,677.96	11	3,367.35	11	3,010.38	11	2,653.05
1/4		1/4		1/4		1/4	4,329.52	1/4	4,111.44	1/4	3,892.47	1/4	3,673.39	1/4	3,359.93	1/4	3,002.94	1/4	2,645.60
1/2		1/2		1/2		1/2	4,325.00	1/2	4,106.89	1/2	3,887.90	1/2	3,668.83	1/2	3,352.51	1/2	2,995.50	1/2	2,638.16
3/4		3/4		3/4		3/4	4,320.48	3/4	4,102.34	3/4	3,883.34	3/4	3,664.26	3/4	3,345.09	3/4	2,988.06	3/4	2,630.72

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 GAUGING DEVICE

GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092

Pearland, Texas 77588
<http://www.pmacorp.net>



BARGE "KIRBY 29166"

3 STBD ULLAGE TABLE "HERMETIC"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMI 30049"

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	2,623.27	0	2,265.58	0	1,907.89	0	1,550.20	0	1,192.51	0	835.36	0	477.69	0	120.01	0		0	
1/4	2,615.82	1/4	2,258.13	1/4	1,900.44	1/4	1,542.75	1/4	1,185.05	1/4	827.91	1/4	470.24	1/4	112.55	1/4		1/4	
1/2	2,608.37	1/2	2,250.68	1/2	1,892.99	1/2	1,535.29	1/2	1,177.60	1/2	820.46	1/2	462.78	1/2	105.10	1/2		1/2	
3/4	2,600.92	3/4	2,243.22	3/4	1,885.53	3/4	1,527.84	3/4	1,170.15	3/4	813.01	3/4	455.33	3/4	97.65	3/4		3/4	
1	2,593.46	1	2,235.77	1	1,878.08	1	1,520.39	1	1,162.70	1	805.56	1	447.88	1	90.20	1		1	
1/4	2,586.01	1/4	2,228.32	1/4	1,870.63	1/4	1,512.94	1/4	1,155.25	1/4	798.11	1/4	440.43	1/4	82.75	1/4		1/4	
1/2	2,578.56	1/2	2,220.87	1/2	1,863.18	1/2	1,505.49	1/2	1,147.80	1/2	790.66	1/2	432.98	1/2	75.30	1/2		1/2	
3/4	2,571.11	3/4	2,213.42	3/4	1,855.73	3/4	1,498.03	3/4	1,140.34	3/4	783.21	3/4	425.53	3/4	67.84	3/4		3/4	
2	2,563.66	2	2,205.96	2	1,848.27	2	1,490.58	2	1,132.90	2	775.76	2	418.07	2	61.09	2		2	
1/4	2,556.20	1/4	2,198.51	1/4	1,840.82	1/4	1,483.13	1/4	1,125.45	1/4	768.30	1/4	410.62	1/4	54.34	1/4		1/4	
1/2	2,548.75	1/2	2,191.06	1/2	1,833.37	1/2	1,475.68	1/2	1,118.01	1/2	760.85	1/2	403.17	1/2	47.59	1/2		1/2	
3/4	2,541.30	3/4	2,183.61	3/4	1,825.92	3/4	1,468.23	3/4	1,110.56	3/4	753.40	3/4	395.72	3/4	40.83	3/4		3/4	
3	2,533.85	3	2,176.16	3	1,818.47	3	1,460.77	3	1,103.12	3	745.95	3	388.27	3	35.71	3		3	
1/4	2,526.40	1/4	2,168.71	1/4	1,811.01	1/4	1,453.32	1/4	1,095.67	1/4	738.50	1/4	380.82	1/4	30.59	1/4		1/4	
1/2	2,518.94	1/2	2,161.25	1/2	1,803.56	1/2	1,445.87	1/2	1,088.23	1/2	731.05	1/2	373.36	1/2	25.46	1/2		1/2	
3/4	2,511.49	3/4	2,153.80	3/4	1,796.11	3/4	1,438.42	3/4	1,080.78	3/4	723.59	3/4	365.91	3/4	20.34	3/4		3/4	
4	2,504.04	4	2,146.35	4	1,788.66	4	1,430.97	4	1,073.34	4	716.14	4	358.46	4		4		4	
1/4	2,496.59	1/4	2,138.90	1/4	1,781.21	1/4	1,423.52	1/4	1,065.91	1/4	708.69	1/4	351.01	1/4		1/4		1/4	
1/2	2,489.14	1/2	2,131.45	1/2	1,773.75	1/2	1,416.06	1/2	1,058.47	1/2	701.24	1/2	343.56	1/2		1/2		1/2	
3/4	2,481.69	3/4	2,123.99	3/4	1,766.30	3/4	1,408.61	3/4	1,051.03	3/4	693.79	3/4	336.11	3/4		3/4		3/4	
5	2,474.23	5	2,116.54	5	1,758.85	5	1,401.16	5	1,043.59	5	686.34	5	328.65	5		5		5	
1/4	2,466.78	1/4	2,109.09	1/4	1,751.40	1/4	1,393.71	1/4	1,036.16	1/4	678.88	1/4	321.20	1/4		1/4		1/4	
1/2	2,459.33	1/2	2,101.64	1/2	1,743.95	1/2	1,386.26	1/2	1,028.72	1/2	671.43	1/2	313.75	1/2		1/2		1/2	
3/4	2,451.88	3/4	2,094.19	3/4	1,736.50	3/4	1,378.80	3/4	1,021.28	3/4	663.98	3/4	306.30	3/4		3/4		3/4	
6	2,444.43	6	2,086.73	6	1,729.04	6	1,371.35	6	1,013.85	6	656.53	6	298.85	6		6		6	
1/4	2,436.97	1/4	2,079.28	1/4	1,721.59	1/4	1,363.90	1/4	1,006.41	1/4	649.08	1/4	291.40	1/4		1/4		1/4	
1/2	2,429.52	1/2	2,071.83	1/2	1,714.14	1/2	1,356.45	1/2	998.97	1/2	641.63	1/2	283.94	1/2		1/2		1/2	
3/4	2,422.07	3/4	2,064.38	3/4	1,706.69	3/4	1,349.00	3/4	991.54	3/4	634.17	3/4	276.49	3/4		3/4		3/4	
7	2,414.62	7	2,056.93	7	1,699.24	7	1,341.54	7	984.10	7	626.72	7	269.04	7		7		7	
1/4	2,407.17	1/4	2,049.47	1/4	1,691.78	1/4	1,334.09	1/4	976.66	1/4	619.27	1/4	261.59	1/4		1/4		1/4	
1/2	2,399.71	1/2	2,042.02	1/2	1,684.33	1/2	1,326.64	1/2	969.23	1/2	611.82	1/2	254.14	1/2		1/2		1/2	
3/4	2,392.26	3/4	2,034.57	3/4	1,676.88	3/4	1,319.19	3/4	961.79	3/4	604.37	3/4	246.69	3/4		3/4		3/4	
8	2,384.81	8	2,027.12	8	1,669.43	8	1,311.74	8	954.35	8	596.92	8	239.23	8		8		8	
1/4	2,377.36	1/4	2,019.67	1/4	1,661.98	1/4	1,304.28	1/4	946.92	1/4	589.46	1/4	231.78	1/4		1/4		1/4	
1/2	2,369.91	1/2	2,012.22	1/2	1,654.52	1/2	1,296.83	1/2	939.48	1/2	582.01	1/2	224.33	1/2		1/2		1/2	
3/4	2,362.45	3/4	2,004.76	3/4	1,647.07	3/4	1,289.38	3/4	932.04	3/4	574.56	3/4	216.88	3/4		3/4		3/4	
9	2,355.00	9	1,997.31	9	1,639.62	9	1,281.93	9	924.61	9	567.11	9	209.43	9		9		9	
1/4	2,347.55	1/4	1,989.86	1/4	1,632.17	1/4	1,274.48	1/4	917.17	1/4	559.66	1/4	201.97	1/4		1/4		1/4	
1/2	2,340.10	1/2	1,982.41	1/2	1,624.72	1/2	1,267.03	1/2	909.73	1/2	552.20	1/2	194.52	1/2		1/2		1/2	
3/4	2,332.65	3/4	1,974.96	3/4	1,617.26	3/4	1,259.57	3/4	902.30	3/4	544.75	3/4	187.07	3/4		3/4		3/4	
10	2,325.20	10	1,967.50	10	1,609.81	10	1,252.12	10	894.86	10	537.30	10	179.62	10		10		10	
1/4	2,317.74	1/4	1,960.05	1/4	1,602.36	1/4	1,244.67	1/4	887.42	1/4	529.85	1/4	172.17	1/4		1/4		1/4	
1/2	2,310.29	1/2	1,952.60	1/2	1,594.91	1/2	1,237.22	1/2	879.99	1/2	522.40	1/2	164.72	1/2		1/2		1/2	
3/4	2,302.84	3/4	1,945.15	3/4	1,587.46	3/4	1,229.77	3/4	872.55	3/4	514.95	3/4	157.26	3/4		3/4		3/4	
11	2,295.39	11	1,937.70	11	1,580.01	11	1,222.31	11	865.11	11	507.49	11	149.81	11		11		11	
1/4	2,287.94	1/4	1,930.24	1/4	1,572.55	1/4	1,214.86	1/4	857.68	1/4	500.04	1/4	142.36	1/4		1/4		1/4	
1/2	2,280.48	1/2	1,922.79	1/2	1,565.10	1/2	1,207.41	1/2	850.24	1/2	492.59	1/2	134.91	1/2		1/2		1/2	
3/4	2,273.03	3/4	1,915.34	3/4	1,557.65	3/4	1,199.96	3/4	842.80	3/4	485.14	3/4	127.46	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/23/2013 CL
RECALCULATED: 07/06/2023 JS
VERIFIED: 06/30/2023 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2023

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



BARGE "KIRBY 29166"

FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

FORMERLY "SMI 30049"

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	101	0	259	0	416	0	517	0		0		0		0		0	
1/4	1	1/4	104	1/4	262	1/4	419	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1	1/2	107	1/2	265	1/2	422	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2	3/4	110	3/4	269	3/4	425	3/4		3/4		3/4		3/4		3/4		3/4	
1	3	1	113	1	272	1	428	1	1	1		1		1		1		1	
1/4	4	1/4	116	1/4	276	1/4	430	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	5	1/2	119	1/2	279	1/2	433	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	6	3/4	122	3/4	282	3/4	436	3/4		3/4		3/4		3/4		3/4		3/4	
2	7	2	125	2	286	2	439	2	2	2		2		2		2		2	
1/4	9	1/4	129	1/4	289	1/4	442	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	10	1/2	132	1/2	293	1/2	444	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	12	3/4	135	3/4	296	3/4	447	3/4		3/4		3/4		3/4		3/4		3/4	
3	13	3	138	3	300	3	450	3	3	3		3		3		3		3	
1/4	15	1/4	141	1/4	303	1/4	453	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	17	1/2	144	1/2	306	1/2	455	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	19	3/4	148	3/4	310	3/4	458	3/4		3/4		3/4		3/4		3/4		3/4	
4	21	4	151	4	313	4	460	4	4	4		4		4		4		4	
1/4	23	1/4	154	1/4	316	1/4	463	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	25	1/2	157	1/2	320	1/2	465	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	27	3/4	161	3/4	323	3/4	468	3/4		3/4		3/4		3/4		3/4		3/4	
5	29	5	164	5	327	5	470	5	5	5		5		5		5		5	
1/4	31	1/4	167	1/4	330	1/4	473	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	33	1/2	170	1/2	333	1/2	475	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	35	3/4	174	3/4	337	3/4	477	3/4		3/4		3/4		3/4		3/4		3/4	
6	37	6	177	6	340	6	480	6	6	6		6		6		6		6	
1/4	40	1/4	180	1/4	343	1/4	482	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	42	1/2	184	1/2	347	1/2	484	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	44	3/4	187	3/4	350	3/4	486	3/4		3/4		3/4		3/4		3/4		3/4	
7	47	7	190	7	353	7	488	7	7	7		7		7		7		7	
1/4	49	1/4	194	1/4	356	1/4	490	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	52	1/2	197	1/2	360	1/2	492	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	54	3/4	201	3/4	363	3/4	494	3/4		3/4		3/4		3/4		3/4		3/4	
8	57	8	204	8	366	8	496	8	8	8		8		8		8		8	
1/4	59	1/4	207	1/4	369	1/4	498	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	62	1/2	211	1/2	373	1/2	500	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	64	3/4	214	3/4	376	3/4	502	3/4		3/4		3/4		3/4		3/4		3/4	
9	67	9	217	9	379	9	504	9	9	9		9		9		9		9	
1/4	70	1/4	221	1/4	382	1/4	505	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	73	1/2	224	1/2	385	1/2	507	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	75	3/4	228	3/4	388	3/4	508	3/4		3/4		3/4		3/4		3/4		3/4	
10	78	10	231	10	392	10	510	10	10	10		10		10		10		10	
1/4	81	1/4	235	1/4	395	1/4	511	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	84	1/2	238	1/2	398	1/2	512	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	87	3/4	241	3/4	401	3/4	513	3/4		3/4		3/4		3/4		3/4		3/4	
11	89	11	245	11	404	11	514	11	11	11		11		11		11		11	
1/4	92	1/4	248	1/4	407	1/4	515	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	95	1/2	252	1/2	410	1/2	516	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	98	3/4	255	3/4	413	3/4	516	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.

STRAPPED: 06/30/2023 JS
 CALCULATED: 07/05/2023 CL
 PRINTED: 07/05/2023 CL

CANCELS AND SUPERCEDES
 ALL PRIOR TO 07/2023

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 29166"

SLOP TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

FORMERLY "SMI 30049"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4	5	1/4	442	1/4	1,027	1/4	1,642	1/4	2,202	1/4		1/4		1/4		1/4		1/4	
1/2	11	1/2	453	1/2	1,040	1/2	1,655	1/2	2,212	1/2		1/2		1/2		1/2		1/2	
3/4	16	3/4	464	3/4	1,053	3/4	1,667	3/4	2,222	3/4		3/4		3/4		3/4		3/4	
1	21	1	475	1	1,065	1	1,680	1	2,232	1		1		1		1		1	
1/4	28	1/4	487	1/4	1,078	1/4	1,692	1/4	2,242	1/4		1/4		1/4		1/4		1/4	
1/2	35	1/2	498	1/2	1,091	1/2	1,705	1/2	2,252	1/2		1/2		1/2		1/2		1/2	
3/4	41	3/4	510	3/4	1,104	3/4	1,717	3/4	2,262	3/4		3/4		3/4		3/4		3/4	
2	48	2	522	2	1,117	2	1,729	2	2,272	2		2		2		2		2	
1/4	55	1/4	533	1/4	1,130	1/4	1,742	1/4	2,282	1/4		1/4		1/4		1/4		1/4	
1/2	63	1/2	545	1/2	1,143	1/2	1,754	1/2	2,291	1/2		1/2		1/2		1/2		1/2	
3/4	70	3/4	557	3/4	1,156	3/4	1,766	3/4	2,301	3/4		3/4		3/4		3/4		3/4	
3	78	3	568	3	1,168	3	1,779	3	2,310	3		3		3		3		3	
1/4	86	1/4	580	1/4	1,181	1/4	1,791	1/4	2,319	1/4		1/4		1/4		1/4		1/4	
1/2	94	1/2	592	1/2	1,194	1/2	1,803	1/2	2,328	1/2		1/2		1/2		1/2		1/2	
3/4	102	3/4	604	3/4	1,207	3/4	1,815	3/4	2,338	3/4		3/4		3/4		3/4		3/4	
4	110	4	616	4	1,220	4	1,827	4	2,347	4		4		4		4		4	
1/4	119	1/4	628	1/4	1,233	1/4	1,839	1/4	2,355	1/4		1/4		1/4		1/4		1/4	
1/2	128	1/2	640	1/2	1,246	1/2	1,852	1/2	2,364	1/2		1/2		1/2		1/2		1/2	
3/4	136	3/4	652	3/4	1,259	3/4	1,864	3/4	2,373	3/4		3/4		3/4		3/4		3/4	
5	145	5	664	5	1,272	5	1,876	5	2,381	5		5		5		5		5	
1/4	154	1/4	676	1/4	1,284	1/4	1,887	1/4	2,390	1/4		1/4		1/4		1/4		1/4	
1/2	163	1/2	689	1/2	1,297	1/2	1,899	1/2	2,398	1/2		1/2		1/2		1/2		1/2	
3/4	172	3/4	701	3/4	1,310	3/4	1,911	3/4	2,406	3/4		3/4		3/4		3/4		3/4	
6	181	6	713	6	1,323	6	1,923	6	2,414	6		6		6		6		6	
1/4	191	1/4	725	1/4	1,336	1/4	1,935	1/4	2,421	1/4		1/4		1/4		1/4		1/4	
1/2	200	1/2	738	1/2	1,349	1/2	1,947	1/2	2,429	1/2		1/2		1/2		1/2		1/2	
3/4	210	3/4	750	3/4	1,362	3/4	1,958	3/4	2,436	3/4		3/4		3/4		3/4		3/4	
7	220	7	762	7	1,375	7	1,970	7	2,444	7		7		7		7		7	
1/4	229	1/4	775	1/4	1,388	1/4	1,982	1/4	2,450	1/4		1/4		1/4		1/4		1/4	
1/2	239	1/2	787	1/2	1,400	1/2	1,993	1/2	2,457	1/2		1/2		1/2		1/2		1/2	
3/4	249	3/4	799	3/4	1,413	3/4	2,005	3/4	2,464	3/4		3/4		3/4		3/4		3/4	
8	259	8	812	8	1,426	8	2,016	8	2,470	8		8		8		8		8	
1/4	270	1/4	824	1/4	1,439	1/4	2,027	1/4	2,476	1/4		1/4		1/4		1/4		1/4	
1/2	280	1/2	837	1/2	1,452	1/2	2,039	1/2	2,481	1/2		1/2		1/2		1/2		1/2	
3/4	290	3/4	849	3/4	1,464	3/4	2,050	3/4	2,486	3/4		3/4		3/4		3/4		3/4	
9	300	9	862	9	1,477	9	2,061	9	2,492	9		9		9		9		9	
1/4	311	1/4	875	1/4	1,490	1/4	2,072	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	321	1/2	887	1/2	1,503	1/2	2,084	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	332	3/4	900	3/4	1,516	3/4	2,095	3/4		3/4		3/4		3/4		3/4		3/4	
10	343	10	912	10	1,528	10	2,106	10		10		10		10		10		10	
1/4	353	1/4	925	1/4	1,541	1/4	2,117	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	364	1/2	938	1/2	1,554	1/2	2,127	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	375	3/4	951	3/4	1,566	3/4	2,138	3/4		3/4		3/4		3/4		3/4		3/4	
11	386	11	963	11	1,579	11	2,149	11		11		11		11		11		11	
1/4	397	1/4	976	1/4	1,592	1/4	2,160	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	408	1/2	989	1/2	1,604	1/2	2,170	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	419	3/4	1,002	3/4	1,617	3/4	2,181	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.

STRAPPED: 06/30/2023 JS
CALCULATED: 07/05/2023 CL
PRINTED: 07/05/2023 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2023

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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