



# BARGE "KIRBY 28719"

ULLAGE (MMC)

FORMERLY "SMS 30036"

	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	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8
1 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
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	00-3/4	- 00-3/4	01-3/8	- 01-3/8	02-1/8	- 02-1/8	02-3/4	- 02-3/4	03-1/2	- 03-1/2	04-1/8	- 04-1/8
3 STBD	00-3/4	- 00-3/4	01-3/8	- 01-3/8	02-1/8	- 02-1/8	02-3/4	- 02-3/4	03-1/2	- 03-1/2	04-1/8	- 04-1/8

(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 - 01-3/8"  
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 3 PORT, THE TRIM CORRECTED ULLAGE IS 3'-10 5/8"

LENGTH BETWEEN DRAFT MARKS: 235'-09"

October 11, 2022

PRECISION MEASUREMENT  
 & ANALYSIS, INC.

P.O. Box 2092  
 Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "KIRBY 28719"

## 1 PORT ULLAGE TABLE "MMC"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMI 30036"

GAUGE HEIGHT 15'-03"

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	4,684.98	0	4,328.06	0	3,969.92	0	3,611.72	0	3,253.53	0	2,895.30	0	2,536.92	0	2,178.53
1/4	1/4			1/4	4,677.58	1/4	4,320.62	1/4	3,962.45	1/4	3,604.26	1/4	3,246.06	1/4	2,887.83	1/4	2,529.45	1/4	2,171.07
1/2	1/2	5,005.53		1/2	4,670.18	1/2	4,313.17	1/2	3,954.99	1/2	3,596.80	1/2	3,238.60	1/2	2,880.37	1/2	2,521.98	1/2	2,163.60
3/4	3/4	5,001.06		3/4	4,662.77	3/4	4,305.71	3/4	3,947.53	3/4	3,589.33	3/4	3,231.14	3/4	2,872.90	3/4	2,514.52	3/4	2,156.13
1		1	4,996.59	1	4,655.37	1	4,298.25	1	3,940.07	1	3,581.87	1	3,223.68	1	2,865.43	1	2,507.05	1	2,148.67
1/4	1/4		4,992.11	1/4	4,647.97	1/4	4,290.80	1/4	3,932.60	1/4	3,574.41	1/4	3,216.21	1/4	2,857.97	1/4	2,499.58	1/4	2,141.20
1/2	1/2		4,986.58	1/2	4,640.54	1/2	4,283.34	1/2	3,925.14	1/2	3,566.95	1/2	3,208.75	1/2	2,850.50	1/2	2,492.12	1/2	2,133.74
3/4	3/4		4,981.04	3/4	4,633.11	3/4	4,275.87	3/4	3,917.68	3/4	3,559.48	3/4	3,201.29	3/4	2,843.03	3/4	2,484.65	3/4	2,126.27
2		2	4,975.50	2	4,625.68	2	4,268.41	2	3,910.22	2	3,552.02	2	3,193.83	2	2,835.57	2	2,477.19	2	2,118.80
1/4	1/4		4,969.96	1/4	4,618.25	1/4	4,260.95	1/4	3,902.75	1/4	3,544.56	1/4	3,186.36	1/4	2,828.10	1/4	2,469.72	1/4	2,111.34
1/2	1/2		4,963.36	1/2	4,610.81	1/2	4,253.49	1/2	3,895.29	1/2	3,537.10	1/2	3,178.90	1/2	2,820.64	1/2	2,462.25	1/2	2,103.87
3/4	3/4		4,956.75	3/4	4,603.37	3/4	4,246.02	3/4	3,887.83	3/4	3,529.63	3/4	3,171.44	3/4	2,813.17	3/4	2,454.79	3/4	2,096.40
3		3	4,950.15	3	4,595.93	3	4,238.56	3	3,880.37	3	3,522.17	3	3,163.98	3	2,805.70	3	2,447.32	3	2,088.94
1/4	1/4		4,943.54	1/4	4,588.49	1/4	4,231.10	1/4	3,872.90	1/4	3,514.71	1/4	3,156.51	1/4	2,798.24	1/4	2,439.85	1/4	2,081.47
1/2	1/2		4,936.27	1/2	4,581.05	1/2	4,223.64	1/2	3,865.44	1/2	3,507.25	1/2	3,149.05	1/2	2,790.77	1/2	2,432.39	1/2	2,074.01
3/4	3/4		4,929.00	3/4	4,573.61	3/4	4,216.17	3/4	3,857.98	3/4	3,499.78	3/4	3,141.59	3/4	2,783.30	3/4	2,424.92	3/4	2,066.54
4		4	4,921.73	4	4,566.17	4	4,208.71	4	3,850.52	4	3,492.32	4	3,134.13	4	2,775.84	4	2,417.46	4	2,059.07
1/4	1/4		4,914.46	1/4	4,558.72	1/4	4,201.25	1/4	3,843.05	1/4	3,484.86	1/4	3,126.66	1/4	2,768.37	1/4	2,409.99	1/4	2,051.61
1/2	1/2		4,907.06	1/2	4,551.28	1/2	4,193.79	1/2	3,835.59	1/2	3,477.40	1/2	3,119.20	1/2	2,760.91	1/2	2,402.52	1/2	2,044.14
3/4	3/4		4,899.65	3/4	4,543.84	3/4	4,186.33	3/4	3,828.13	3/4	3,469.93	3/4	3,111.74	3/4	2,753.44	3/4	2,395.06	3/4	2,036.67
5		5	4,892.25	5	4,536.40	5	4,178.86	5	3,820.67	5	3,462.47	5	3,104.28	5	2,745.97	5	2,387.59	5	2,029.21
1/4	1/4		4,884.84	1/4	4,528.96	1/4	4,171.40	1/4	3,813.21	1/4	3,455.01	1/4	3,096.81	1/4	2,738.51	1/4	2,380.12	1/4	2,021.74
1/2	1/2		4,877.44	1/2	4,521.52	1/2	4,163.94	1/2	3,805.74	1/2	3,447.55	1/2	3,089.35	1/2	2,731.04	1/2	2,372.66	1/2	2,014.28
3/4	3/4		4,870.03	3/4	4,514.08	3/4	4,156.48	3/4	3,798.28	3/4	3,440.09	3/4	3,081.89	3/4	2,723.57	3/4	2,365.19	3/4	2,006.81
6		6	4,862.63	6	4,506.64	6	4,149.01	6	3,790.82	6	3,432.62	6	3,074.43	6	2,716.11	6	2,357.72	6	1,999.34
1/4	1/4		4,855.22	1/4	4,499.20	1/4	4,141.55	1/4	3,783.36	1/4	3,425.16	1/4	3,066.97	1/4	2,708.64	1/4	2,350.26	1/4	1,991.88
1/2	1/2		4,847.82	1/2	4,491.76	1/2	4,134.09	1/2	3,775.89	1/2	3,417.70	1/2	3,059.50	1/2	2,701.17	1/2	2,342.79	1/2	1,984.41
3/4	3/4		4,840.41	3/4	4,484.32	3/4	4,126.63	3/4	3,768.43	3/4	3,410.24	3/4	3,052.04	3/4	2,693.71	3/4	2,335.33	3/4	1,976.94
7		7	4,833.01	7	4,476.88	7	4,119.16	7	3,760.97	7	3,402.77	7	3,044.58	7	2,686.24	7	2,327.86	7	1,969.48
1/4	1/4		4,825.60	1/4	4,469.44	1/4	4,111.70	1/4	3,753.51	1/4	3,395.31	1/4	3,037.12	1/4	2,678.78	1/4	2,320.39	1/4	1,962.01
1/2	1/2		4,818.20	1/2	4,462.00	1/2	4,104.24	1/2	3,746.04	1/2	3,387.85	1/2	3,029.65	1/2	2,671.31	1/2	2,312.93	1/2	1,954.54
3/4	3/4		4,810.80	3/4	4,454.56	3/4	4,096.78	3/4	3,738.58	3/4	3,380.39	3/4	3,022.19	3/4	2,663.84	3/4	2,305.46	3/4	1,947.08
8		8	4,803.39	8	4,447.11	8	4,089.31	8	3,731.12	8	3,372.92	8	3,014.73	8	2,656.38	8	2,297.99	8	1,939.61
1/4	1/4		4,795.99	1/4	4,439.67	1/4	4,081.85	1/4	3,723.66	1/4	3,365.46	1/4	3,007.27	1/4	2,648.91	1/4	2,290.53	1/4	1,932.15
1/2	1/2		4,788.59	1/2	4,432.23	1/2	4,074.39	1/2	3,716.19	1/2	3,358.00	1/2	2,999.80	1/2	2,641.44	1/2	2,283.06	1/2	1,924.68
3/4	3/4		4,781.19	3/4	4,424.79	3/4	4,066.93	3/4	3,708.73	3/4	3,350.54	3/4	2,992.34	3/4	2,633.98	3/4	2,275.60	3/4	1,917.21
9		9	4,773.79	9	4,417.35	9	4,059.46	9	3,701.27	9	3,343.07	9	2,984.88	9	2,626.51	9	2,268.13	9	1,909.75
1/4	1/4		4,766.39	1/4	4,409.91	1/4	4,052.00	1/4	3,693.81	1/4	3,335.61	1/4	2,977.42	1/4	2,619.05	1/4	2,260.66	1/4	1,902.28
1/2	1/2		4,758.99	1/2	4,402.47	1/2	4,044.54	1/2	3,686.34	1/2	3,328.15	1/2	2,969.95	1/2	2,611.58	1/2	2,253.20	1/2	1,894.81
3/4	3/4		4,751.59	3/4	4,395.03	3/4	4,037.08	3/4	3,678.88	3/4	3,320.69	3/4	2,962.49	3/4	2,604.11	3/4	2,245.73	3/4	1,887.35
10		10	4,744.18	10	4,387.59	10	4,029.61	10	3,671.42	10	3,313.22	10	2,955.03	10	2,596.65	10	2,238.26	10	1,879.88
1/4	1/4		4,736.78	1/4	4,380.15	1/4	4,022.15	1/4	3,663.96	1/4	3,305.76	1/4	2,947.57	1/4	2,589.18	1/4	2,230.80	1/4	1,872.42
1/2	1/2		4,729.38	1/2	4,372.71	1/2	4,014.69	1/2	3,656.49	1/2	3,298.30	1/2	2,940.10	1/2	2,581.71	1/2	2,223.33	1/2	1,864.95
3/4	3/4		4,721.98	3/4	4,365.27	3/4	4,007.23	3/4	3,649.03	3/4	3,290.84	3/4	2,932.64	3/4	2,574.25	3/4	2,215.87	3/4	1,857.48
11		11	4,714.58	11	4,357.83	11	3,999.77	11	3,641.57	11	3,283.37	11	2,925.18	11	2,566.78	11	2,208.40	11	1,850.02
1/4	1/4		4,707.18	1/4	4,350.39	1/4	3,992.30	1/4	3,634.11	1/4	3,275.91	1/4	2,917.72	1/4	2,559.31	1/4	2,200.93	1/4	1,842.55
1/2	1/2		4,699.78	1/2	4,342.94	1/2	3,984.84	1/2	3,626.65	1/2	3,268.45	1/2	2,910.25	1/2	2,551.85	1/2	2,193.47	1/2	1,835.08
3/4	3/4		4,692.38	3/4	4,335.50	3/4	3,977.38	3/4	3,619.18	3/4	3,260.99	3/4	2,902.77	3/4	2,544.38	3/4	2,186.00	3/4	1,827.62

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 TO TOP "MMC" VALVE.

GAUGE POINT: (MMC) 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 28719"

## 1 PORT ULLAGE TABLE "MMC"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMI 30036"

GAUGE HEIGHT 15'-03"

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	1,820.15	0	1,461.77	0	1,103.45	0	747.20	0	396.70	0	83.30	0		0		0		0	
1/4	1,812.68	1/4	1,454.30	1/4	1,096.01	1/4	739.75	1/4	389.52	1/4	77.38	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,805.22	1/2	1,446.84	1/2	1,088.57	1/2	732.28	1/2	382.43	1/2	71.55	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,797.75	3/4	1,439.37	3/4	1,081.13	3/4	724.81	3/4	375.34	3/4	65.71	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1,790.29	1	1,431.90	1	1,073.70	1	717.35	1	368.25	1	59.88	1	1	1	1	1	1	1	1
1/4	1,782.82	1/4	1,424.44	1/4	1,066.26	1/4	709.88	1/4	361.15	1/4	53.84	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,775.35	1/2	1,416.97	1/2	1,058.83	1/2	702.42	1/2	354.15	1/2	48.60	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,767.89	3/4	1,409.50	3/4	1,051.41	3/4	694.95	3/4	347.15	3/4	43.35	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,760.42	2	1,402.04	2	1,043.98	2	687.48	2	340.14	2	38.10	2	2	2	2	2	2	2	2
1/4	1,752.95	1/4	1,394.57	1/4	1,036.56	1/4	680.02	1/4	333.14	1/4	32.85	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,745.49	1/2	1,387.11	1/2	1,029.13	1/2	672.55	1/2	326.22	1/2	29.33	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,738.02	3/4	1,379.64	3/4	1,021.71	3/4	665.08	3/4	319.31	3/4	25.80	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,730.56	3	1,372.17	3	1,014.29	3	657.62	3	312.39	3	22.27	3	3	3	3	3	3	3	3
1/4	1,723.09	1/4	1,364.71	1/4	1,006.86	1/4	650.15	1/4	305.47	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,715.62	1/2	1,357.24	1/2	999.45	1/2	642.69	1/2	298.65	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,708.16	3/4	1,349.77	3/4	992.03	3/4	635.42	3/4	291.82	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,700.69	4	1,342.31	4	984.61	4	628.16	4	284.99	4	4	4	4	4	4	4	4	4	4
1/4	1,693.22	1/4	1,334.84	1/4	977.20	1/4	620.89	1/4	278.16	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,685.76	1/2	1,327.38	1/2	969.78	1/2	613.63	1/2	271.42	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,678.29	3/4	1,319.91	3/4	962.36	3/4	606.36	3/4	264.68	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,670.83	5	1,312.44	5	954.95	5	599.10	5	257.94	5	5	5	5	5	5	5	5	5	5
1/4	1,663.36	1/4	1,304.98	1/4	947.53	1/4	591.83	1/4	251.20	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,655.89	1/2	1,297.51	1/2	940.12	1/2	584.57	1/2	244.55	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,648.43	3/4	1,290.04	3/4	932.70	3/4	577.30	3/4	237.90	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,640.96	6	1,282.58	6	925.29	6	570.04	6	231.25	6	6	6	6	6	6	6	6	6	6
1/4	1,633.49	1/4	1,275.11	1/4	917.87	1/4	562.78	1/4	224.80	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,626.03	1/2	1,267.65	1/2	910.46	1/2	555.51	1/2	218.43	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,618.56	3/4	1,260.18	3/4	903.04	3/4	548.25	3/4	212.07	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,611.09	7	1,252.71	7	895.62	7	540.98	7	205.71	7	7	7	7	7	7	7	7	7	7
1/4	1,603.63	1/4	1,245.25	1/4	888.21	1/4	533.72	1/4	199.35	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,596.16	1/2	1,237.78	1/2	880.79	1/2	526.45	1/2	193.07	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,588.70	3/4	1,230.31	3/4	873.38	3/4	519.19	3/4	186.80	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,581.23	8	1,222.85	8	865.96	8	511.92	8	180.52	8	8	8	8	8	8	8	8	8	8
1/4	1,573.76	1/4	1,215.38	1/4	858.55	1/4	504.66	1/4	174.25	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,566.30	1/2	1,207.91	1/2	851.13	1/2	497.43	1/2	168.06	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,558.83	3/4	1,200.45	3/4	843.72	3/4	490.20	3/4	161.88	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,551.36	9	1,192.98	9	836.30	9	482.96	9	155.69	9	9	9	9	9	9	9	9	9	9
1/4	1,543.90	1/4	1,185.52	1/4	828.89	1/4	475.73	1/4	149.50	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,536.43	1/2	1,178.05	1/2	821.47	1/2	468.58	1/2	143.41	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,528.97	3/4	1,170.58	3/4	814.05	3/4	461.42	3/4	137.31	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,521.50	10	1,163.12	10	806.64	10	454.27	10	131.21	10	10	10	10	10	10	10	10	10	10
1/4	1,514.03	1/4	1,155.65	1/4	799.22	1/4	447.11	1/4	125.11	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,506.57	1/2	1,148.18	1/2	791.81	1/2	440.05	1/2	119.10	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,499.10	3/4	1,140.72	3/4	784.39	3/4	432.78	3/4	113.09	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,491.63	11	1,133.25	11	776.98	11	425.51	11	107.08	11	11	11	11	11	11	11	11	11	11
1/4	1,484.17	1/4	1,125.79	1/4	769.56	1/4	418.24	1/4	101.07	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,476.70	1/2	1,118.34	1/2	762.11	1/2	411.06	1/2	95.15	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,469.24	3/4	1,110.90	3/4	754.65	3/4	403.88	3/4	89.23	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.

STRAPPED: 08/21/2012 CL - SW  
CALCULATED: 08/21/2012 CL  
NAME CHANGE: 10/11/2022 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2022

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



# BARGE "KIRBY 28719"

## 1 STBD ULLAGE TABLE "MMC"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMI 30036"

GAUGE HEIGHT 15'-03"

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	4,685.42	0	4,328.60	0	3,970.54	0	3,612.44	0	3,254.34	0	2,896.22	0	2,537.93	0	2,179.64		
1/4	1/4			1/4	4,678.02	1/4	4,321.16	1/4	3,963.08	1/4	3,604.98	1/4	3,246.88	1/4	2,888.76	1/4	2,530.47	1/4	2,172.17		
1/2	1/2	5,005.89		1/2	4,670.62	1/2	4,313.71	1/2	3,955.62	1/2	3,597.52	1/2	3,239.42	1/2	2,881.29	1/2	2,523.00	1/2	2,164.71		
3/4	3/4	5,001.42		3/4	4,663.22	3/4	4,306.25	3/4	3,948.16	3/4	3,590.06	3/4	3,231.96	3/4	2,873.83	3/4	2,515.54	3/4	2,157.25		
1		1		1	4,996.95	1	4,655.83	1	4,298.79	1	3,940.70	1	3,582.60	1	3,224.50	1	2,866.36	1	2,508.07	1	2,149.78
1/4	1/4			1/4	4,992.48	1/4	4,648.43	1/4	4,291.34	1/4	3,933.24	1/4	3,575.14	1/4	3,217.04	1/4	2,858.90	1/4	2,500.61	1/4	2,142.32
1/2	1/2	4,986.94		1/2	4,641.00	1/2	4,283.88	1/2	3,925.78	1/2	3,567.68	1/2	3,209.58	1/2	2,851.43	1/2	2,493.14	1/2	2,134.85		
3/4	3/4	4,981.40		3/4	4,633.57	3/4	4,276.42	3/4	3,918.32	3/4	3,560.22	3/4	3,202.12	3/4	2,843.97	3/4	2,485.68	3/4	2,127.39		
2		2		2	4,975.87	2	4,626.14	2	4,268.95	2	3,910.86	2	3,552.76	2	3,194.66	2	2,836.51	2	2,478.21	2	2,119.92
1/4	1/4			1/4	4,970.33	1/4	4,618.71	1/4	4,261.49	1/4	3,903.40	1/4	3,545.30	1/4	3,187.20	1/4	2,829.04	1/4	2,470.75	1/4	2,112.46
1/2	1/2	4,963.73		1/2	4,611.28	1/2	4,254.03	1/2	3,895.93	1/2	3,537.84	1/2	3,179.74	1/2	2,821.58	1/2	2,463.29	1/2	2,104.99		
3/4	3/4	4,957.13		3/4	4,603.84	3/4	4,246.57	3/4	3,888.47	3/4	3,530.38	3/4	3,172.28	3/4	2,814.11	3/4	2,455.82	3/4	2,097.53		
3		3		3	4,950.52	3	4,596.40	3	4,239.11	3	3,881.01	3	3,522.91	3	3,164.82	3	2,806.65	3	2,448.36	3	2,090.07
1/4	1/4			1/4	4,943.92	1/4	4,588.96	1/4	4,231.65	1/4	3,873.55	1/4	3,515.45	1/4	3,157.36	1/4	2,799.18	1/4	2,440.89	1/4	2,082.60
1/2	1/2	4,936.65		1/2	4,581.52	1/2	4,224.19	1/2	3,866.09	1/2	3,507.99	1/2	3,149.89	1/2	2,791.72	1/2	2,433.43	1/2	2,075.14		
3/4	3/4	4,929.38		3/4	4,574.08	3/4	4,216.73	3/4	3,858.63	3/4	3,500.53	3/4	3,142.43	3/4	2,784.25	3/4	2,425.96	3/4	2,067.67		
4		4		4	4,922.11	4	4,566.64	4	4,209.27	4	3,851.17	4	3,493.07	4	3,134.97	4	2,776.79	4	2,418.50	4	2,060.21
1/4	1/4			1/4	4,914.84	1/4	4,559.20	1/4	4,201.81	1/4	3,843.71	1/4	3,485.61	1/4	3,127.51	1/4	2,769.33	1/4	2,411.03	1/4	2,052.74
1/2	1/2	4,907.44		1/2	4,551.76	1/2	4,194.35	1/2	3,836.25	1/2	3,478.15	1/2	3,120.05	1/2	2,761.86	1/2	2,403.57	1/2	2,045.28		
3/4	3/4	4,900.04		3/4	4,544.33	3/4	4,186.89	3/4	3,828.79	3/4	3,470.69	3/4	3,112.59	3/4	2,754.40	3/4	2,396.11	3/4	2,037.81		
5		5		5	4,892.63	5	4,536.89	5	4,179.43	5	3,821.33	5	3,463.23	5	3,105.13	5	2,746.93	5	2,388.64	5	2,030.35
1/4	1/4			1/4	4,885.23	1/4	4,529.45	1/4	4,171.97	1/4	3,813.87	1/4	3,455.77	1/4	3,097.67	1/4	2,739.47	1/4	2,381.18	1/4	2,022.89
1/2	1/2	4,877.83		1/2	4,522.01	1/2	4,164.51	1/2	3,806.41	1/2	3,448.31	1/2	3,090.21	1/2	2,732.00	1/2	2,373.71	1/2	2,015.42		
3/4	3/4	4,870.43		3/4	4,514.57	3/4	4,157.05	3/4	3,798.95	3/4	3,440.85	3/4	3,082.75	3/4	2,724.54	3/4	2,366.25	3/4	2,007.96		
6		6		6	4,863.02	6	4,507.13	6	4,149.59	6	3,791.49	6	3,433.39	6	3,075.29	6	2,717.08	6	2,358.78	6	2,000.49
1/4	1/4			1/4	4,855.62	1/4	4,499.69	1/4	4,142.13	1/4	3,784.03	1/4	3,425.93	1/4	3,067.83	1/4	2,709.61	1/4	2,351.32	1/4	1,993.03
1/2	1/2	4,848.22		1/2	4,492.25	1/2	4,134.67	1/2	3,776.57	1/2	3,418.47	1/2	3,060.37	1/2	2,702.15	1/2	2,343.86	1/2	1,985.56		
3/4	3/4	4,840.81		3/4	4,484.82	3/4	4,127.21	3/4	3,769.11	3/4	3,411.01	3/4	3,052.91	3/4	2,694.68	3/4	2,336.39	3/4	1,978.10		
7		7		7	4,833.41	7	4,477.38	7	4,119.75	7	3,761.65	7	3,403.55	7	3,045.45	7	2,687.22	7	2,328.93	7	1,970.64
1/4	1/4			1/4	4,826.01	1/4	4,469.94	1/4	4,112.29	1/4	3,754.19	1/4	3,396.09	1/4	3,037.99	1/4	2,679.75	1/4	2,321.46	1/4	1,963.17
1/2	1/2	4,818.61		1/2	4,462.50	1/2	4,104.83	1/2	3,746.73	1/2	3,388.63	1/2	3,030.53	1/2	2,672.29	1/2	2,314.00	1/2	1,955.71		
3/4	3/4	4,811.21		3/4	4,455.06	3/4	4,097.37	3/4	3,739.27	3/4	3,381.17	3/4	3,023.07	3/4	2,664.82	3/4	2,306.53	3/4	1,948.24		
8		8		8	4,803.81	8	4,447.62	8	4,089.91	8	3,731.81	8	3,373.71	8	3,015.61	8	2,657.36	8	2,299.07	8	1,940.78
1/4	1/4			1/4	4,796.41	1/4	4,440.18	1/4	4,082.44	1/4	3,724.35	1/4	3,366.25	1/4	3,008.15	1/4	2,649.90	1/4	2,291.60	1/4	1,933.31
1/2	1/2	4,789.01		1/2	4,432.74	1/2	4,074.98	1/2	3,716.89	1/2	3,358.79	1/2	3,000.69	1/2	2,642.43	1/2	2,284.14	1/2	1,925.85		
3/4	3/4	4,781.61		3/4	4,425.31	3/4	4,067.52	3/4	3,709.42	3/4	3,351.33	3/4	2,993.23	3/4	2,634.97	3/4	2,276.68	3/4	1,918.38		
9		9		9	4,774.21	9	4,417.87	9	4,060.06	9	3,701.96	9	3,343.87	9	2,985.77	9	2,627.50	9	2,269.21	9	1,910.92
1/4	1/4			1/4	4,766.81	1/4	4,410.43	1/4	4,052.60	1/4	3,694.50	1/4	3,336.40	1/4	2,978.31	1/4	2,620.04	1/4	2,261.75	1/4	1,903.46
1/2	1/2	4,759.41		1/2	4,402.99	1/2	4,045.14	1/2	3,687.04	1/2	3,328.94	1/2	2,970.85	1/2	2,612.57	1/2	2,254.28	1/2	1,895.99		
3/4	3/4	4,752.01		3/4	4,395.55	3/4	4,037.68	3/4	3,679.58	3/4	3,321.48	3/4	2,963.38	3/4	2,605.11	3/4	2,246.82	3/4	1,888.53		
10		10		10	4,744.61	10	4,388.11	10	4,030.22	10	3,672.12	10	3,314.02	10	2,955.92	10	2,597.64	10	2,239.35	10	1,881.06
1/4	1/4			1/4	4,737.21	1/4	4,380.67	1/4	4,022.76	1/4	3,664.66	1/4	3,306.56	1/4	2,948.46	1/4	2,590.18	1/4	2,231.89	1/4	1,873.60
1/2	1/2	4,729.82		1/2	4,373.23	1/2	4,015.30	1/2	3,657.20	1/2	3,299.10	1/2	2,941.00	1/2	2,582.72	1/2	2,224.42	1/2	1,866.13		
3/4	3/4	4,722.42		3/4	4,365.79	3/4	4,007.84	3/4	3,649.74	3/4	3,291.64	3/4	2,933.54	3/4	2,575.25	3/4	2,216.96	3/4	1,858.67		
11		11		11	4,715.02	11	4,358.36	11	4,000.38	11	3,642.28	11	3,284.18	11	2,926.08	11	2,567.79	11	2,209.50	11	1,851.20
1/4	1/4			1/4	4,707.62	1/4	4,350.92	1/4	3,992.92	1/4	3,634.82	1/4	3,276.72	1/4	2,918.62	1/4	2,560.32	1/4	2,202.03	1/4	1,843.74
1/2	1/2	4,700.22		1/2	4,343.48	1/2	3,985.46	1/2	3,627.36	1/2	3,269.26	1/2	2,911.16	1/2	2,552.86	1/2	2,194.57	1/2	1,836.28		
3/4	3/4	4,692.82		3/4	4,336.04	3/4	3,978.00	3/4	3,619.90	3/4	3,261.80	3/4	2,903.69	3/4	2,545.39	3/4	2,187.10	3/4	1,828.81		

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 TO TOP "MMC" VALVE.

GAUGE POINT: (MMC) 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 28719"

## 1 STBD ULLAGE TABLE "MMC"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "30036"

GAUGE HEIGHT 15'-03"

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	1,821.35	0	1,463.06	0	1,104.76	0	746.96	0	396.61	0	83.29	0		0		0		0	
1/4	1,813.88	1/4	1,455.59	1/4	1,097.30	1/4	739.50	1/4	389.43	1/4	77.37	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,806.42	1/2	1,448.13	1/2	1,089.84	1/2	732.04	1/2	382.34	1/2	71.53	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,798.95	3/4	1,440.66	3/4	1,082.37	3/4	724.58	3/4	375.25	3/4	65.70	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1,791.49	1	1,433.20	1	1,074.91	1	717.11	1	368.16	1	59.87	1	1	1	1	1	1	1	1
1/4	1,784.03	1/4	1,425.73	1/4	1,067.44	1/4	709.65	1/4	361.07	1/4	53.83	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,776.56	1/2	1,418.27	1/2	1,059.98	1/2	702.18	1/2	354.07	1/2	48.59	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,769.10	3/4	1,410.81	3/4	1,052.52	3/4	694.72	3/4	347.06	3/4	43.34	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,761.63	2	1,403.34	2	1,045.06	2	687.25	2	340.06	2	38.09	2	2	2	2	2	2	2	2
1/4	1,754.17	1/4	1,395.88	1/4	1,037.60	1/4	679.79	1/4	333.06	1/4	32.85	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,746.70	1/2	1,388.41	1/2	1,030.15	1/2	672.33	1/2	326.15	1/2	29.32	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,739.24	3/4	1,380.95	3/4	1,022.69	3/4	664.86	3/4	319.23	3/4	25.80	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,731.77	3	1,373.48	3	1,015.23	3	657.40	3	312.32	3	22.27	3	3	3	3	3	3	3	3
1/4	1,724.31	1/4	1,366.02	1/4	1,007.77	1/4	649.93	1/4	305.40	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,716.85	1/2	1,358.55	1/2	1,000.32	1/2	642.47	1/2	298.58	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,709.38	3/4	1,351.09	3/4	992.87	3/4	635.21	3/4	291.75	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,701.92	4	1,343.63	4	985.41	4	627.94	4	284.92	4	4	4	4	4	4	4	4	4	4
1/4	1,694.45	1/4	1,336.16	1/4	977.96	1/4	620.68	1/4	278.10	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,686.99	1/2	1,328.70	1/2	970.51	1/2	613.42	1/2	271.36	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,679.52	3/4	1,321.23	3/4	963.06	3/4	606.16	3/4	264.62	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,672.06	5	1,313.77	5	955.61	5	598.89	5	257.88	5	5	5	5	5	5	5	5	5	5
1/4	1,664.59	1/4	1,306.30	1/4	948.16	1/4	591.63	1/4	251.14	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,657.13	1/2	1,298.84	1/2	940.71	1/2	584.37	1/2	244.49	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,649.67	3/4	1,291.37	3/4	933.26	3/4	577.10	3/4	237.84	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,642.20	6	1,283.91	6	925.81	6	569.84	6	231.19	6	6	6	6	6	6	6	6	6	6
1/4	1,634.74	1/4	1,276.45	1/4	918.36	1/4	562.58	1/4	224.74	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,627.27	1/2	1,268.98	1/2	910.91	1/2	555.32	1/2	218.38	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,619.81	3/4	1,261.52	3/4	903.46	3/4	548.07	3/4	212.02	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,612.34	7	1,254.05	7	896.01	7	540.81	7	205.66	7	7	7	7	7	7	7	7	7	7
1/4	1,604.88	1/4	1,246.59	1/4	888.55	1/4	533.55	1/4	199.30	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,597.42	1/2	1,239.12	1/2	881.10	1/2	526.30	1/2	193.03	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,589.95	3/4	1,231.66	3/4	873.65	3/4	519.04	3/4	186.76	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,582.49	8	1,224.20	8	866.20	8	511.79	8	180.48	8	8	8	8	8	8	8	8	8	8
1/4	1,575.02	1/4	1,216.73	1/4	858.75	1/4	504.53	1/4	174.21	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,567.56	1/2	1,209.27	1/2	851.30	1/2	497.30	1/2	168.03	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,560.09	3/4	1,201.80	3/4	843.85	3/4	490.07	3/4	161.84	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,552.63	9	1,194.34	9	836.40	9	482.85	9	155.66	9	9	9	9	9	9	9	9	9	9
1/4	1,545.16	1/4	1,186.87	1/4	828.95	1/4	475.62	1/4	149.47	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,537.70	1/2	1,179.41	1/2	821.50	1/2	468.47	1/2	143.37	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,530.24	3/4	1,171.94	3/4	814.05	3/4	461.31	3/4	137.28	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,522.77	10	1,164.48	10	806.60	10	454.16	10	131.18	10	10	10	10	10	10	10	10	10	10
1/4	1,515.31	1/4	1,157.02	1/4	799.15	1/4	447.01	1/4	125.08	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,507.84	1/2	1,149.55	1/2	791.70	1/2	439.94	1/2	119.08	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,500.38	3/4	1,142.09	3/4	784.25	3/4	432.68	3/4	113.07	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,492.91	11	1,134.62	11	776.80	11	425.41	11	107.06	11	11	11	11	11	11	11	11	11	11
1/4	1,485.45	1/4	1,127.16	1/4	769.35	1/4	418.14	1/4	101.05	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,477.98	1/2	1,119.69	1/2	761.89	1/2	410.97	1/2	95.13	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,470.52	3/4	1,112.23	3/4	754.43	3/4	403.79	3/4	89.21	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.

STRAPPED: 08/21/2012 CL - SW  
CALCULATED: 08/21/2012 CL  
NAME CHANGE: 10/11/2022 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2022

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



# BARGE "KIRBY 28719"

## 2 PORT ULLAGE TABLE "MMC"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMI 30036"

GAUGE HEIGHT 15'-02 1/4"

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	5,067.20	0	4,727.93	0	4,369.82	0	4,010.59	0	3,651.36	0	3,292.12	0	2,932.86	0	2,573.43	0	2,214.00
1/4	1/4	5,062.71	1/4	4,720.50	1/4	4,362.34	1/4	4,003.11	1/4	3,643.87	1/4	3,284.64	1/4	2,925.37	1/4	2,565.94	1/4	2,206.51	
1/2	1/2	5,058.23	1/2	4,713.08	1/2	4,354.86	1/2	3,995.63	1/2	3,636.39	1/2	3,277.15	1/2	2,917.88	1/2	2,558.45	1/2	2,199.02	
3/4	3/4	5,052.67	3/4	4,705.63	3/4	4,347.38	3/4	3,988.14	3/4	3,628.90	3/4	3,269.67	3/4	2,910.39	3/4	2,550.96	3/4	2,191.54	
1		1	5,047.12	1	4,698.18	1	4,339.89	1	3,980.66	1	3,621.42	1	3,262.18	1	2,902.90	1	2,543.48	1	2,184.05
1/4	1/4	5,041.56	1/4	4,690.72	1/4	4,332.41	1/4	3,973.17	1/4	3,613.94	1/4	3,254.70	1/4	2,895.42	1/4	2,535.99	1/4	2,176.56	
1/2	1/2	5,036.01	1/2	4,683.27	1/2	4,324.93	1/2	3,965.69	1/2	3,606.45	1/2	3,247.22	1/2	2,887.93	1/2	2,528.50	1/2	2,169.07	
3/4	3/4	5,029.38	3/4	4,675.81	3/4	4,317.44	3/4	3,958.20	3/4	3,598.97	3/4	3,239.73	3/4	2,880.44	3/4	2,521.01	3/4	2,161.58	
2		2	5,022.76	2	4,668.35	2	4,309.96	2	3,950.72	2	3,591.48	2	3,232.25	2	2,872.95	2	2,513.52	2	2,154.09
1/4	1/4	5,016.14	1/4	4,660.88	1/4	4,302.47	1/4	3,943.24	1/4	3,584.00	1/4	3,224.76	1/4	2,865.46	1/4	2,506.04	1/4	2,146.61	
1/2	1/2	5,009.52	1/2	4,653.42	1/2	4,294.99	1/2	3,935.75	1/2	3,576.52	1/2	3,217.28	1/2	2,857.98	1/2	2,498.55	1/2	2,139.12	
3/4	3/4	5,002.22	3/4	4,645.96	3/4	4,287.51	3/4	3,928.27	3/4	3,569.03	3/4	3,209.79	3/4	2,850.49	3/4	2,491.06	3/4	2,131.63	
3		3	4,994.93	3	4,638.50	3	4,280.02	3	3,920.78	3	3,561.55	3	3,202.31	3	2,843.00	3	2,483.57	3	2,124.14
1/4	1/4	4,987.64	1/4	4,631.04	1/4	4,272.54	1/4	3,913.30	1/4	3,554.06	1/4	3,194.83	1/4	2,835.51	1/4	2,476.08	1/4	2,116.65	
1/2	1/2	4,980.35	1/2	4,623.57	1/2	4,265.05	1/2	3,905.82	1/2	3,546.58	1/2	3,187.34	1/2	2,828.02	1/2	2,468.59	1/2	2,109.17	
3/4	3/4	4,972.92	3/4	4,616.11	3/4	4,257.57	3/4	3,898.33	3/4	3,539.10	3/4	3,179.86	3/4	2,820.54	3/4	2,461.11	3/4	2,101.68	
4		4	4,965.49	4	4,608.65	4	4,250.08	4	3,890.85	4	3,531.61	4	3,172.37	4	2,813.05	4	2,453.62	4	2,094.19
1/4	1/4	4,958.07	1/4	4,601.19	1/4	4,242.60	1/4	3,883.36	1/4	3,524.13	1/4	3,164.89	1/4	2,805.56	1/4	2,446.13	1/4	2,086.70	
1/2	1/2	4,950.64	1/2	4,593.72	1/2	4,235.12	1/2	3,875.88	1/2	3,516.64	1/2	3,157.41	1/2	2,798.07	1/2	2,438.64	1/2	2,079.21	
3/4	3/4	4,943.21	3/4	4,586.26	3/4	4,227.63	3/4	3,868.40	3/4	3,509.16	3/4	3,149.92	3/4	2,790.58	3/4	2,431.15	3/4	2,071.73	
5		5	4,935.79	5	4,578.80	5	4,220.15	5	3,860.91	5	3,501.67	5	3,142.44	5	2,783.10	5	2,423.67	5	2,064.24
1/4	1/4	4,928.36	1/4	4,571.34	1/4	4,212.66	1/4	3,853.43	1/4	3,494.19	1/4	3,134.95	1/4	2,775.61	1/4	2,416.18	1/4	2,056.75	
1/2	1/2	4,920.93	1/2	4,563.87	1/2	4,205.18	1/2	3,845.94	1/2	3,486.71	1/2	3,127.47	1/2	2,768.12	1/2	2,408.69	1/2	2,049.26	
3/4	3/4	4,913.51	3/4	4,556.41	3/4	4,197.70	3/4	3,838.46	3/4	3,479.22	3/4	3,119.99	3/4	2,760.63	3/4	2,401.20	3/4	2,041.77	
6		6	4,906.08	6	4,548.95	6	4,190.21	6	3,830.98	6	3,471.74	6	3,112.50	6	2,753.14	6	2,393.71	6	2,034.29
1/4	1/4	4,898.65	1/4	4,541.49	1/4	4,182.73	1/4	3,823.49	1/4	3,464.25	1/4	3,105.02	1/4	2,745.65	1/4	2,386.23	1/4	2,026.80	
1/2	1/2	4,891.23	1/2	4,534.02	1/2	4,175.24	1/2	3,816.01	1/2	3,456.77	1/2	3,097.53	1/2	2,738.17	1/2	2,378.74	1/2	2,019.31	
3/4	3/4	4,883.80	3/4	4,526.56	3/4	4,167.76	3/4	3,808.52	3/4	3,449.29	3/4	3,090.05	3/4	2,730.68	3/4	2,371.25	3/4	2,011.82	
7		7	4,876.38	7	4,519.10	7	4,160.28	7	3,801.04	7	3,441.80	7	3,082.57	7	2,723.19	7	2,363.76	7	2,004.33
1/4	1/4	4,868.96	1/4	4,511.64	1/4	4,152.79	1/4	3,793.55	1/4	3,434.32	1/4	3,075.08	1/4	2,715.70	1/4	2,356.27	1/4	1,996.84	
1/2	1/2	4,861.53	1/2	4,504.17	1/2	4,145.31	1/2	3,786.07	1/2	3,426.83	1/2	3,067.60	1/2	2,708.21	1/2	2,348.79	1/2	1,989.36	
3/4	3/4	4,854.11	3/4	4,496.71	3/4	4,137.82	3/4	3,778.59	3/4	3,419.35	3/4	3,060.11	3/4	2,700.73	3/4	2,341.30	3/4	1,981.87	
8		8	4,846.69	8	4,489.25	8	4,130.34	8	3,771.10	8	3,411.87	8	3,052.63	8	2,693.24	8	2,333.81	8	1,974.38
1/4	1/4	4,839.26	1/4	4,481.79	1/4	4,122.86	1/4	3,763.62	1/4	3,404.38	1/4	3,045.14	1/4	2,685.75	1/4	2,326.32	1/4	1,966.89	
1/2	1/2	4,831.84	1/2	4,474.32	1/2	4,115.37	1/2	3,756.13	1/2	3,396.90	1/2	3,037.66	1/2	2,678.26	1/2	2,318.83	1/2	1,959.40	
3/4	3/4	4,824.42	3/4	4,466.86	3/4	4,107.89	3/4	3,748.65	3/4	3,389.41	3/4	3,030.18	3/4	2,670.77	3/4	2,311.34	3/4	1,951.92	
9		9	4,817.00	9	4,459.40	9	4,100.40	9	3,741.17	9	3,381.93	9	3,022.69	9	2,663.29	9	2,303.86	9	1,944.43
1/4	1/4	4,809.57	1/4	4,451.94	1/4	4,092.92	1/4	3,733.68	1/4	3,374.44	1/4	3,015.21	1/4	2,655.80	1/4	2,296.37	1/4	1,936.94	
1/2	1/2	4,802.15	1/2	4,444.48	1/2	4,085.43	1/2	3,726.20	1/2	3,366.96	1/2	3,007.72	1/2	2,648.31	1/2	2,288.88	1/2	1,929.45	
3/4	3/4	4,794.73	3/4	4,437.01	3/4	4,077.95	3/4	3,718.71	3/4	3,359.48	3/4	3,000.24	3/4	2,640.82	3/4	2,281.39	3/4	1,921.96	
10		10	4,787.31	10	4,429.55	10	4,070.47	10	3,711.23	10	3,351.99	10	2,992.76	10	2,633.33	10	2,273.90	10	1,914.48
1/4	1/4	4,779.88	1/4	4,422.09	1/4	4,062.98	1/4	3,703.75	1/4	3,344.51	1/4	2,985.27	1/4	2,625.84	1/4	2,266.42	1/4	1,906.99	
1/2	1/2	4,772.46	1/2	4,414.63	1/2	4,055.50	1/2	3,696.26	1/2	3,337.02	1/2	2,977.79	1/2	2,618.36	1/2	2,258.93	1/2	1,899.50	
3/4	3/4	4,765.04	3/4	4,407.16	3/4	4,048.01	3/4	3,688.78	3/4	3,329.54	3/4	2,970.30	3/4	2,610.87	3/4	2,251.44	3/4	1,892.01	
11		11	4,757.62	11	4,399.70	11	4,040.53	11	3,681.29	11	3,322.06	11	2,962.81	11	2,603.38	11	2,243.95	11	1,884.52
1/4	1/4	4,750.19	1/4	4,392.24	1/4	4,033.05	1/4	3,673.81	1/4	3,314.57	1/4	2,955.32	1/4	2,595.89	1/4	2,236.46	1/4	1,877.03	
1/2	1/2	4,742.77	1/2	4,384.78	1/2	4,025.56	1/2	3,666.32	1/2	3,307.09	1/2	2,947.83	1/2	2,588.40	1/2	2,228.98	1/2	1,869.55	
3/4	3/4	5,071.68	3/4	4,735.35	3/4	4,377.30	3/4	4,018.08	3/4	3,658.84	3/4	3,299.60	3/4	2,940.35	3/4	2,221.49	3/4	1,862.06	

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 TO TOP "MMC" VALVE.

GAUGE POINT: (MMC) LOCATED 12'-09" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD.

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

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



# BARGE "KIRBY 28719"

## 2 PORT ULLAGE TABLE "MMC"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMI 30036"

GAUGE HEIGHT 15'-02 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	1,854.57	0	1,495.14	0	1,137.13	0	790.67	0	436.91	0	82.95	0		0		0		0	
1/4	1,847.08	1/4	1,487.65	1/4	1,129.92	1/4	783.18	1/4	429.42	1/4	75.66	1/4		1/4		1/4		1/4	
1/2	1,839.59	1/2	1,480.17	1/2	1,122.72	1/2	775.69	1/2	421.93	1/2	68.17	1/2		1/2		1/2		1/2	
3/4	1,832.11	3/4	1,472.68	3/4	1,115.52	3/4	768.20	3/4	414.44	3/4	61.39	3/4		3/4		3/4		3/4	
1	1,824.62	1	1,465.19	1	1,108.33	1	760.72	1	406.96	1	54.60	1		1		1		1	
1/4	1,817.13	1/4	1,457.70	1/4	1,101.13	1/4	753.23	1/4	399.47	1/4	47.82	1/4		1/4		1/4		1/4	
1/2	1,809.64	1/2	1,450.21	1/2	1,093.94	1/2	745.74	1/2	391.98	1/2	41.03	1/2		1/2		1/2		1/2	
3/4	1,802.15	3/4	1,442.73	3/4	1,086.75	3/4	738.25	3/4	384.49	3/4	35.88	3/4		3/4		3/4		3/4	
2	1,794.67	2	1,435.24	2	1,079.56	2	730.76	2	377.00	2	30.73	2		2		2		2	
1/4	1,787.18	1/4	1,427.75	1/4	1,072.37	1/4	723.28	1/4	369.52	1/4	25.58	1/4		1/4		1/4		1/4	
1/2	1,779.69	1/2	1,420.26	1/2	1,065.18	1/2	715.79	1/2	362.03	1/2		1/2		1/2		1/2		1/2	
3/4	1,772.20	3/4	1,412.77	3/4	1,057.99	3/4	708.30	3/4	354.54	3/4		3/4		3/4		3/4		3/4	
3	1,764.71	3	1,405.28	3	1,050.80	3	701.02	3	347.05	3		3		3		3		3	
1/4	1,757.23	1/4	1,397.80	1/4	1,043.62	1/4	693.73	1/4	339.56	1/4		1/4		1/4		1/4		1/4	
1/2	1,749.74	1/2	1,390.31	1/2	1,036.43	1/2	686.44	1/2	332.08	1/2		1/2		1/2		1/2		1/2	
3/4	1,742.25	3/4	1,382.82	3/4	1,029.25	3/4	679.16	3/4	324.59	3/4		3/4		3/4		3/4		3/4	
4	1,734.76	4	1,375.33	4	1,022.06	4	671.87	4	317.10	4		4		4		4		4	
1/4	1,727.27	1/4	1,367.84	1/4	1,014.88	1/4	664.59	1/4	309.61	1/4		1/4		1/4		1/4		1/4	
1/2	1,719.78	1/2	1,360.36	1/2	1,007.70	1/2	657.30	1/2	302.13	1/2		1/2		1/2		1/2		1/2	
3/4	1,712.30	3/4	1,352.87	3/4	1,000.51	3/4	650.01	3/4	294.64	3/4		3/4		3/4		3/4		3/4	
5	1,704.81	5	1,345.38	5	993.33	5	642.73	5	287.15	5		5		5		5		5	
1/4	1,697.32	1/4	1,337.89	1/4	986.15	1/4	635.44	1/4	279.66	1/4		1/4		1/4		1/4		1/4	
1/2	1,689.83	1/2	1,330.40	1/2	978.96	1/2	628.16	1/2	272.38	1/2		1/2		1/2		1/2		1/2	
3/4	1,682.34	3/4	1,322.92	3/4	971.78	3/4	620.87	3/4	265.09	3/4		3/4		3/4		3/4		3/4	
6	1,674.86	6	1,315.43	6	964.60	6	613.59	6	257.80	6		6		6		6		6	
1/4	1,667.37	1/4	1,307.94	1/4	957.41	1/4	606.30	1/4	250.52	1/4		1/4		1/4		1/4		1/4	
1/2	1,659.88	1/2	1,300.45	1/2	950.23	1/2	599.01	1/2	243.23	1/2		1/2		1/2		1/2		1/2	
3/4	1,652.39	3/4	1,292.96	3/4	943.05	3/4	591.73	3/4	235.95	3/4		3/4		3/4		3/4		3/4	
7	1,644.90	7	1,285.48	7	935.86	7	584.44	7	228.66	7		7		7		7		7	
1/4	1,637.42	1/4	1,277.99	1/4	928.68	1/4	577.16	1/4	221.38	1/4		1/4		1/4		1/4		1/4	
1/2	1,629.93	1/2	1,270.50	1/2	921.49	1/2	569.87	1/2	214.09	1/2		1/2		1/2		1/2		1/2	
3/4	1,622.44	3/4	1,263.01	3/4	914.31	3/4	562.58	3/4	206.80	3/4		3/4		3/4		3/4		3/4	
8	1,614.95	8	1,255.52	8	907.13	8	555.30	8	199.52	8		8		8		8		8	
1/4	1,607.46	1/4	1,248.03	1/4	899.94	1/4	548.01	1/4	192.23	1/4		1/4		1/4		1/4		1/4	
1/2	1,599.98	1/2	1,240.55	1/2	892.76	1/2	540.73	1/2	184.95	1/2		1/2		1/2		1/2		1/2	
3/4	1,592.49	3/4	1,233.06	3/4	885.58	3/4	533.44	3/4	177.66	3/4		3/4		3/4		3/4		3/4	
9	1,585.00	9	1,225.57	9	878.39	9	526.16	9	170.38	9		9		9		9		9	
1/4	1,577.51	1/4	1,218.08	1/4	871.21	1/4	518.87	1/4	163.09	1/4		1/4		1/4		1/4		1/4	
1/2	1,570.02	1/2	1,210.59	1/2	864.03	1/2	511.58	1/2	155.80	1/2		1/2		1/2		1/2		1/2	
3/4	1,562.53	3/4	1,203.11	3/4	856.84	3/4	504.30	3/4	148.52	3/4		3/4		3/4		3/4		3/4	
10	1,555.05	10	1,195.62	10	849.66	10	496.81	10	141.23	10		10		10		10		10	
1/4	1,547.56	1/4	1,188.13	1/4	842.47	1/4	489.32	1/4	133.95	1/4		1/4		1/4		1/4		1/4	
1/2	1,540.07	1/2	1,180.64	1/2	835.29	1/2	481.83	1/2	126.66	1/2		1/2		1/2		1/2		1/2	
3/4	1,532.58	3/4	1,173.37	3/4	827.88	3/4	474.35	3/4	119.38	3/4		3/4		3/4		3/4		3/4	
11	1,525.09	11	1,166.09	11	820.47	11	466.86	11	112.09	11		11		11		11		11	
1/4	1,517.61	1/4	1,158.81	1/4	813.06	1/4	459.37	1/4	104.80	1/4		1/4		1/4		1/4		1/4	
1/2	1,510.12	1/2	1,151.54	1/2	805.64	1/2	451.88	1/2	97.52	1/2		1/2		1/2		1/2		1/2	
3/4	1,502.63	3/4	1,144.33	3/4	798.16	3/4	444.40	3/4	90.23	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/21/2012 CL - SW  
CALCULATED: 08/21/2012 CL  
NAME CHANGE: 10/11/2022 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2022

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





# BARGE "KIRBY 28719"

## 2 STBD ULLAGE TABLE "MMC"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMI 30036"

GAUGE HEIGHT 15'-02 1/2"

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	5,084.38	0	4,748.12	0	4,390.16	0	4,031.02	0	3,671.87	0	3,312.72	0	2,953.55	0	2,594.21	0	2,234.86		
1/4	1/4	5,079.90	1/4	4,740.70	1/4	4,382.68	1/4	4,023.54	1/4	3,664.39	1/4	3,305.24	1/4	2,946.06	1/4	2,586.72	1/4	2,227.38			
1/2	1/2	5,075.41	1/2	4,733.28	1/2	4,375.20	1/2	4,016.06	1/2	3,656.91	1/2	3,297.76	1/2	2,938.58	1/2	2,579.23	1/2	2,219.89			
3/4	3/4	5,070.93	3/4	4,725.86	3/4	4,367.72	3/4	4,008.57	3/4	3,649.42	3/4	3,290.27	3/4	2,931.09	3/4	2,571.75	3/4	2,212.40			
1		1	5,065.38	1	4,718.41	1	4,360.24	1	4,001.09	1	3,641.94	1	3,282.79	1	2,923.60	1	2,564.26	1	2,204.92		
1/4	1/4	5,059.82	1/4	4,710.96	1/4	4,352.76	1/4	3,993.61	1/4	3,634.46	1/4	3,275.31	1/4	2,916.12	1/4	2,556.77	1/4	2,197.43			
1/2	1/2	5,054.27	1/2	4,703.51	1/2	4,345.28	1/2	3,986.13	1/2	3,626.98	1/2	3,267.83	1/2	2,908.63	1/2	2,549.29	1/2	2,189.95			
3/4	3/4	5,048.72	3/4	4,696.06	3/4	4,337.80	3/4	3,978.65	3/4	3,619.49	3/4	3,260.34	3/4	2,901.14	3/4	2,541.80	3/4	2,182.46			
2		2	5,042.09	2	4,688.60	2	4,330.31	2	3,971.16	2	3,612.01	2	3,252.86	2	2,893.66	2	2,534.32	2	2,174.97		
1/4	1/4	5,035.47	1/4	4,681.14	1/4	4,322.83	1/4	3,963.68	1/4	3,604.53	1/4	3,245.38	1/4	2,886.17	1/4	2,526.83	1/4	2,167.49			
1/2	1/2	5,028.85	1/2	4,673.67	1/2	4,315.35	1/2	3,956.20	1/2	3,597.05	1/2	3,237.90	1/2	2,878.68	1/2	2,519.34	1/2	2,160.00			
3/4	3/4	5,022.22	3/4	4,666.21	3/4	4,307.87	3/4	3,948.72	3/4	3,589.57	3/4	3,230.41	3/4	2,871.20	3/4	2,511.86	3/4	2,152.51			
3		3	5,014.93	3	4,658.75	3	4,300.38	3	3,941.23	3	3,582.08	3	3,222.93	3	2,863.71	3	2,504.37	3	2,145.03		
1/4	1/4	5,007.64	1/4	4,651.29	1/4	4,292.90	1/4	3,933.75	1/4	3,574.60	1/4	3,215.45	1/4	2,856.23	1/4	2,496.88	1/4	2,137.54			
1/2	1/2	5,000.35	1/2	4,643.83	1/2	4,285.42	1/2	3,926.27	1/2	3,567.12	1/2	3,207.97	1/2	2,848.74	1/2	2,489.40	1/2	2,130.05			
3/4	3/4	4,993.06	3/4	4,636.37	3/4	4,277.94	3/4	3,918.79	3/4	3,559.64	3/4	3,200.49	3/4	2,841.25	3/4	2,481.91	3/4	2,122.57			
4		4	4,985.63	4	4,628.91	4	4,270.45	4	3,911.30	4	3,552.15	4	3,193.00	4	2,833.77	4	2,474.42	4	2,115.08		
1/4	1/4	4,978.21	1/4	4,621.45	1/4	4,262.97	1/4	3,903.82	1/4	3,544.67	1/4	3,185.52	1/4	2,826.28	1/4	2,466.94	1/4	2,107.60			
1/2	1/2	4,970.79	1/2	4,613.99	1/2	4,255.49	1/2	3,896.34	1/2	3,537.19	1/2	3,178.04	1/2	2,818.79	1/2	2,459.45	1/2	2,100.11			
3/4	3/4	4,963.36	3/4	4,606.53	3/4	4,248.01	3/4	3,888.86	3/4	3,529.71	3/4	3,170.56	3/4	2,811.31	3/4	2,451.97	3/4	2,092.62			
5		5	4,955.94	5	4,599.07	5	4,240.53	5	3,881.38	5	3,522.22	5	3,163.07	5	2,803.82	5	2,444.48	5	2,085.14		
1/4	1/4	4,948.51	1/4	4,591.61	1/4	4,233.04	1/4	3,873.89	1/4	3,514.74	1/4	3,155.59	1/4	2,796.34	1/4	2,436.99	1/4	2,077.65			
1/2	1/2	4,941.09	1/2	4,584.15	1/2	4,225.56	1/2	3,866.41	1/2	3,507.26	1/2	3,148.11	1/2	2,788.85	1/2	2,429.51	1/2	2,070.16			
3/4	3/4	4,933.66	3/4	4,576.69	3/4	4,218.08	3/4	3,858.93	3/4	3,499.78	3/4	3,140.63	3/4	2,781.36	3/4	2,422.02	3/4	2,062.68			
6		6	4,926.24	6	4,569.23	6	4,210.60	6	3,851.45	6	3,492.30	6	3,133.15	6	2,773.88	6	2,414.53	6	2,055.19		
1/4	1/4	4,918.81	1/4	4,561.77	1/4	4,203.11	1/4	3,843.96	1/4	3,484.81	1/4	3,125.66	1/4	2,766.39	1/4	2,407.05	1/4	2,047.71			
1/2	1/2	4,911.39	1/2	4,554.30	1/2	4,195.63	1/2	3,836.48	1/2	3,477.33	1/2	3,118.18	1/2	2,758.90	1/2	2,399.56	1/2	2,040.22			
3/4	3/4	4,903.96	3/4	4,546.84	3/4	4,188.15	3/4	3,829.00	3/4	3,469.85	3/4	3,110.70	3/4	2,751.42	3/4	2,392.08	3/4	2,032.73			
7		7	4,896.54	7	4,539.38	7	4,180.67	7	3,821.52	7	3,462.37	7	3,103.22	7	2,743.93	7	2,384.59	7	2,025.25		
1/4	1/4	4,889.12	1/4	4,531.92	1/4	4,173.18	1/4	3,814.03	1/4	3,454.88	1/4	3,095.73	1/4	2,736.45	1/4	2,377.10	1/4	2,017.76			
1/2	1/2	4,881.70	1/2	4,524.46	1/2	4,165.70	1/2	3,806.55	1/2	3,447.40	1/2	3,088.25	1/2	2,728.96	1/2	2,369.62	1/2	2,010.27			
3/4	3/4	4,874.27	3/4	4,517.00	3/4	4,158.22	3/4	3,799.07	3/4	3,439.92	3/4	3,080.77	3/4	2,721.47	3/4	2,362.13	3/4	2,002.79			
8		8	4,866.85	8	4,509.54	8	4,150.74	8	3,791.59	8	3,432.44	8	3,073.29	8	2,713.99	8	2,354.64	8	1,995.30		
1/4	1/4	4,859.43	1/4	4,502.08	1/4	4,143.26	1/4	3,784.11	1/4	3,424.95	1/4	3,065.80	1/4	2,706.50	1/4	2,347.16	1/4	1,987.82			
1/2	1/2	4,852.01	1/2	4,494.62	1/2	4,135.77	1/2	3,776.62	1/2	3,417.47	1/2	3,058.32	1/2	2,699.01	1/2	2,339.67	1/2	1,980.33			
3/4	3/4	4,844.59	3/4	4,487.16	3/4	4,128.29	3/4	3,769.14	3/4	3,409.99	3/4	3,050.84	3/4	2,691.53	3/4	2,332.18	3/4	1,972.84			
9		9	4,837.17	9	4,479.70	9	4,120.81	9	3,761.66	9	3,402.51	9	3,043.36	9	2,684.04	9	2,324.70	9	1,965.36		
1/4	1/4	4,829.75	1/4	4,472.24	1/4	4,113.33	1/4	3,754.18	1/4	3,395.03	1/4	3,035.88	1/4	2,676.55	1/4	2,317.21	1/4	1,957.87			
1/2	1/2	4,822.33	1/2	4,464.78	1/2	4,105.84	1/2	3,746.69	1/2	3,387.54	1/2	3,028.39	1/2	2,669.07	1/2	2,309.73	1/2	1,950.38			
3/4	3/4	4,814.91	3/4	4,457.32	3/4	4,098.36	3/4	3,739.21	3/4	3,380.06	3/4	3,020.91	3/4	2,661.58	3/4	2,302.24	3/4	1,942.90			
10		10	4,807.49	10	4,449.86	10	4,090.88	10	3,731.73	10	3,372.58	10	3,013.43	10	2,654.10	10	2,294.75	10	1,935.41		
1/4	1/4	4,800.07	1/4	4,442.40	1/4	4,083.40	1/4	3,724.25	1/4	3,365.10	1/4	3,005.95	1/4	2,646.61	1/4	2,287.27	1/4	1,927.92			
1/2	1/2	4,792.65	1/2	4,434.94	1/2	4,075.91	1/2	3,716.76	1/2	3,357.61	1/2	2,998.46	1/2	2,639.12	1/2	2,279.78	1/2	1,920.44			
3/4	3/4	4,785.22	3/4	4,427.47	3/4	4,068.43	3/4	3,709.28	3/4	3,350.13	3/4	2,990.98	3/4	2,631.64	3/4	2,272.29	3/4	1,912.95			
11		11	4,777.80	11	4,420.01	11	4,060.95	11	3,701.80	11	3,342.65	11	2,983.49	11	2,624.15	11	2,264.81	11	1,905.47		
1/4	1/4	4,770.38	1/4	4,412.55	1/4	4,053.47	1/4	3,694.32	1/4	3,335.17	1/4	2,976.01	1/4	2,616.66	1/4	2,257.32	1/4	1,897.98			
1/2	1/2	4,762.96	1/2	4,405.09	1/2	4,045.99	1/2	3,686.84	1/2	3,327.68	1/2	2,968.52	1/2	2,609.18	1/2	2,249.84	1/2	1,890.49			
3/4	3/4	4,755.54	3/4	4,397.63	3/4	4,038.50	3/4	3,679.35	3/4	3,320.20	3/4	2,961.03	3/4	2,601.69	3/4	2,242.35	3/4	1,883.01			

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 TO TOP "MMC" VALVE.

GAUGE POINT: (MMC) LOCATED 12'-09" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD.

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

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





# BARGE "KIRBY 28719"

## 2 STBD ULLAGE TABLE "MMC"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMI 30036"

GAUGE HEIGHT 15'-02 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	1,875.52	0	1,516.18	0	1,156.84	0	797.95	0	444.28	0	90.20	0		0		0		0	
1/4	1,868.03	1/4	1,508.69	1/4	1,149.35	1/4	790.47	1/4	436.79	1/4	82.92	1/4		1/4		1/4		1/4	
1/2	1,860.55	1/2	1,501.21	1/2	1,141.86	1/2	782.98	1/2	429.31	1/2	75.64	1/2		1/2		1/2		1/2	
3/4	1,853.06	3/4	1,493.72	3/4	1,134.38	3/4	775.49	3/4	421.82	3/4	68.15	3/4		3/4		3/4		3/4	
1	1,845.58	1	1,486.23	1	1,126.89	1	768.01	1	414.33	1	61.36	1		1		1		1	
1/4	1,838.09	1/4	1,478.75	1/4	1,119.41	1/4	760.52	1/4	406.85	1/4	54.58	1/4		1/4		1/4		1/4	
1/2	1,830.60	1/2	1,471.26	1/2	1,111.93	1/2	753.04	1/2	399.36	1/2	47.80	1/2		1/2		1/2		1/2	
3/4	1,823.12	3/4	1,463.77	3/4	1,104.45	3/4	745.55	3/4	391.88	3/4	41.01	3/4		3/4		3/4		3/4	
2	1,815.63	2	1,456.29	2	1,096.97	2	738.06	2	384.39	2	35.87	2		2		2		2	
1/4	1,808.14	1/4	1,448.80	1/4	1,089.49	1/4	730.58	1/4	376.90	1/4	30.72	1/4		1/4		1/4		1/4	
1/2	1,800.66	1/2	1,441.32	1/2	1,082.01	1/2	723.09	1/2	369.42	1/2	25.58	1/2		1/2		1/2		1/2	
3/4	1,793.17	3/4	1,433.83	3/4	1,074.53	3/4	715.61	3/4	361.93	3/4		3/4		3/4		3/4		3/4	
3	1,785.69	3	1,426.34	3	1,067.05	3	708.12	3	354.45	3		3		3		3		3	
1/4	1,778.20	1/4	1,418.86	1/4	1,059.58	1/4	700.64	1/4	346.96	1/4		1/4		1/4		1/4		1/4	
1/2	1,770.71	1/2	1,411.37	1/2	1,052.10	1/2	693.15	1/2	339.47	1/2		1/2		1/2		1/2		1/2	
3/4	1,763.23	3/4	1,403.88	3/4	1,044.63	3/4	685.67	3/4	331.99	3/4		3/4		3/4		3/4		3/4	
4	1,755.74	4	1,396.40	4	1,037.15	4	678.18	4	324.50	4		4		4		4		4	
1/4	1,748.25	1/4	1,388.91	1/4	1,029.68	1/4	670.70	1/4	317.01	1/4		1/4		1/4		1/4		1/4	
1/2	1,740.77	1/2	1,381.42	1/2	1,022.21	1/2	663.22	1/2	309.53	1/2		1/2		1/2		1/2		1/2	
3/4	1,733.28	3/4	1,373.94	3/4	1,014.73	3/4	655.74	3/4	302.04	3/4		3/4		3/4		3/4		3/4	
5	1,725.79	5	1,366.45	5	1,007.26	5	648.25	5	294.56	5		5		5		5		5	
1/4	1,718.31	1/4	1,358.97	1/4	999.79	1/4	640.77	1/4	287.07	1/4		1/4		1/4		1/4		1/4	
1/2	1,710.82	1/2	1,351.48	1/2	992.31	1/2	633.28	1/2	279.58	1/2		1/2		1/2		1/2		1/2	
3/4	1,703.34	3/4	1,343.99	3/4	984.84	3/4	625.80	3/4	272.10	3/4		3/4		3/4		3/4		3/4	
6	1,695.85	6	1,336.51	6	977.37	6	618.31	6	264.62	6		6		6		6		6	
1/4	1,688.36	1/4	1,329.02	1/4	969.89	1/4	610.83	1/4	257.13	1/4		1/4		1/4		1/4		1/4	
1/2	1,680.88	1/2	1,321.53	1/2	962.42	1/2	603.34	1/2	250.64	1/2		1/2		1/2		1/2		1/2	
3/4	1,673.39	3/4	1,314.05	3/4	954.94	3/4	595.86	3/4	243.16	3/4		3/4		3/4		3/4		3/4	
7	1,665.90	7	1,306.56	7	947.47	7	588.37	7	235.68	7		7		7		7		7	
1/4	1,658.42	1/4	1,299.08	1/4	940.00	1/4	580.89	1/4	228.19	1/4		1/4		1/4		1/4		1/4	
1/2	1,650.93	1/2	1,291.59	1/2	932.52	1/2	573.40	1/2	221.70	1/2		1/2		1/2		1/2		1/2	
3/4	1,643.45	3/4	1,284.10	3/4	925.05	3/4	565.92	3/4	214.21	3/4		3/4		3/4		3/4		3/4	
8	1,635.96	8	1,276.62	8	917.58	8	558.43	8	206.73	8		8		8		8		8	
1/4	1,628.47	1/4	1,269.13	1/4	910.10	1/4	550.95	1/4	199.24	1/4		1/4		1/4		1/4		1/4	
1/2	1,620.99	1/2	1,261.64	1/2	902.63	1/2	543.46	1/2	192.75	1/2		1/2		1/2		1/2		1/2	
3/4	1,613.50	3/4	1,254.16	3/4	895.16	3/4	535.97	3/4	185.26	3/4		3/4		3/4		3/4		3/4	
9	1,606.01	9	1,246.67	9	887.68	9	528.48	9	177.77	9		9		9		9		9	
1/4	1,598.53	1/4	1,239.19	1/4	880.21	1/4	521.00	1/4	170.28	1/4		1/4		1/4		1/4		1/4	
1/2	1,591.04	1/2	1,231.70	1/2	872.74	1/2	513.51	1/2	162.79	1/2		1/2		1/2		1/2		1/2	
3/4	1,583.55	3/4	1,224.21	3/4	865.26	3/4	506.02	3/4	155.30	3/4		3/4		3/4		3/4		3/4	
10	1,576.07	10	1,216.73	10	857.79	10	498.53	10	147.81	10		10		10		10		10	
1/4	1,568.58	1/4	1,209.24	1/4	850.32	1/4	491.04	1/4	140.32	1/4		1/4		1/4		1/4		1/4	
1/2	1,561.10	1/2	1,201.75	1/2	842.84	1/2	483.55	1/2	132.83	1/2		1/2		1/2		1/2		1/2	
3/4	1,553.61	3/4	1,194.27	3/4	835.37	3/4	476.06	3/4	125.34	3/4		3/4		3/4		3/4		3/4	
11	1,546.12	11	1,186.78	11	827.89	11	468.57	11	117.85	11		11		11		11		11	
1/4	1,538.64	1/4	1,179.29	1/4	820.40	1/4	461.08	1/4	110.36	1/4		1/4		1/4		1/4		1/4	
1/2	1,531.15	1/2	1,171.81	1/2	812.92	1/2	453.59	1/2	102.87	1/2		1/2		1/2		1/2		1/2	
3/4	1,523.66	3/4	1,164.32	3/4	805.44	3/4	446.10	3/4	95.38	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/21/2012 CL - SW  
CALCULATED: 08/21/2012 CL  
NAME CHANGE: 10/11/2022 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2022

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



# BARGE "KIRBY 28719"

## 3 PORT ULLAGE TABLE "MMC"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMI 30036"

GAUGE HEIGHT 15'-03 1/2"

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	4,019.31	0	3,883.66	0	3,747.15	0	3,610.58	0	3,309.28	0	2,952.58	0	2,595.58	0	2,239.49
1/4	1/4	1/4	1/4	1/4	4,016.50	1/4	3,880.83	1/4	3,744.30	1/4	3,607.74	1/4	3,301.87	1/4	2,945.14	1/4	2,588.13	1/4	2,232.10
1/2	1/2	1/2	1/2	1/2	4,013.70	1/2	3,878.00	1/2	3,741.46	1/2	3,604.89	1/2	3,294.45	1/2	2,937.70	1/2	2,580.69	1/2	2,224.71
3/4	3/4	3/4	3/4	3/4	4,010.90	3/4	3,875.16	3/4	3,738.61	3/4	3,602.05	3/4	3,287.04	3/4	2,930.26	3/4	2,573.25	3/4	2,217.32
1		1	4,123.49	1	4,008.09	1	3,872.32	1	3,735.77	1	3,599.20	1	3,279.62	1	2,922.83	1	2,565.80	1	2,209.94
1/4	1/4	1/4	4,123.37	1/4	4,005.29	1/4	3,869.48	1/4	3,732.92	1/4	3,596.36	1/4	3,272.21	1/4	2,915.39	1/4	2,558.36	1/4	2,202.56
1/2	1/2	1/2	4,123.24	1/2	4,002.49	1/2	3,866.64	1/2	3,730.08	1/2	3,593.51	1/2	3,264.80	1/2	2,907.95	1/2	2,550.91	1/2	2,195.18
3/4	3/4	3/4	4,123.12	3/4	3,999.68	3/4	3,863.80	3/4	3,727.23	3/4	3,590.67	3/4	3,257.38	3/4	2,900.52	3/4	2,543.47	3/4	2,187.80
2		2	4,122.17	2	3,996.86	2	3,860.95	2	3,724.39	2	3,587.82	2	3,249.95	2	2,893.08	2	2,536.02	2	2,180.41
1/4	1/4	1/4	4,121.23	1/4	3,994.04	1/4	3,858.11	1/4	3,721.54	1/4	3,584.98	1/4	3,242.52	1/4	2,885.64	1/4	2,528.58	1/4	2,173.03
1/2	1/2	1/2	4,120.29	1/2	3,991.21	1/2	3,855.26	1/2	3,718.70	1/2	3,582.13	1/2	3,235.09	1/2	2,878.20	1/2	2,521.14	1/2	2,165.65
3/4	3/4	3/4	4,119.35	3/4	3,988.39	3/4	3,852.42	3/4	3,715.85	3/4	3,579.29	3/4	3,227.67	3/4	2,870.77	3/4	2,513.69	3/4	2,158.27
3		3	4,117.35	3	3,985.56	3	3,849.57	3	3,713.01	3	3,572.98	3	3,220.23	3	2,863.33	3	2,506.25	3	2,150.89
1/4	1/4	1/4	4,115.34	1/4	3,982.73	1/4	3,846.73	1/4	3,710.16	1/4	3,566.68	1/4	3,212.80	1/4	2,855.89	1/4	2,498.80	1/4	2,143.50
1/2	1/2	1/2	4,113.33	1/2	3,979.90	1/2	3,843.88	1/2	3,707.32	1/2	3,560.38	1/2	3,205.36	1/2	2,848.45	1/2	2,491.36	1/2	2,136.12
3/4	3/4	3/4	4,111.33	3/4	3,977.07	3/4	3,841.04	3/4	3,704.47	3/4	3,554.08	3/4	3,197.93	3/4	2,841.02	3/4	2,483.91	3/4	2,128.74
4		4	4,108.65	4	3,974.24	4	3,838.19	4	3,701.63	4	3,546.64	4	3,190.49	4	2,833.58	4	2,476.50	4	2,121.36
1/4	1/4	1/4	4,105.98	1/4	3,971.40	1/4	3,835.35	1/4	3,698.78	1/4	3,539.21	1/4	3,183.06	1/4	2,826.14	1/4	2,469.08	1/4	2,113.98
1/2	1/2	1/2	4,103.31	1/2	3,968.57	1/2	3,832.50	1/2	3,695.94	1/2	3,531.78	1/2	3,175.62	1/2	2,818.70	1/2	2,461.66	1/2	2,106.59
3/4	3/4	3/4	4,100.64	3/4	3,965.74	3/4	3,829.66	3/4	3,693.09	3/4	3,524.34	3/4	3,168.19	3/4	2,811.27	3/4	2,454.25	3/4	2,099.21
5		5	4,097.83	5	3,962.91	5	3,826.81	5	3,690.25	5	3,516.92	5	3,160.75	5	2,803.83	5	2,446.84	5	2,091.83
1/4	1/4	1/4	4,095.03	1/4	3,960.08	1/4	3,823.97	1/4	3,687.40	1/4	3,509.49	1/4	3,153.32	1/4	2,796.39	1/4	2,439.44	1/4	2,084.45
1/2	1/2	1/2	4,092.22	1/2	3,957.25	1/2	3,821.12	1/2	3,684.56	1/2	3,502.07	1/2	3,145.88	1/2	2,788.95	1/2	2,432.03	1/2	2,077.07
3/4	3/4	3/4	4,089.41	3/4	3,954.42	3/4	3,818.28	3/4	3,681.71	3/4	3,494.64	3/4	3,138.45	3/4	2,781.52	3/4	2,424.62	3/4	2,069.68
6		6	4,086.61	6	3,951.59	6	3,815.43	6	3,678.87	6	3,487.22	6	3,131.01	6	2,774.08	6	2,417.22	6	2,062.30
1/4	1/4	1/4	4,083.80	1/4	3,948.76	1/4	3,812.59	1/4	3,676.02	1/4	3,479.81	1/4	3,123.58	1/4	2,766.64	1/4	2,409.81	1/4	2,054.92
1/2	1/2	1/2	4,081.00	1/2	3,945.93	1/2	3,809.74	1/2	3,673.18	1/2	3,472.39	1/2	3,116.14	1/2	2,759.20	1/2	2,402.41	1/2	2,047.54
3/4	3/4	3/4	4,078.19	3/4	3,943.10	3/4	3,806.90	3/4	3,670.33	3/4	3,464.97	3/4	3,108.71	3/4	2,751.77	3/4	2,395.00	3/4	2,040.16
7		7	4,075.38	7	3,940.27	7	3,804.05	7	3,667.49	7	3,457.56	7	3,101.27	7	2,744.33	7	2,387.59	7	2,032.78
1/4	1/4	1/4	4,072.58	1/4	3,937.44	1/4	3,801.21	1/4	3,664.64	1/4	3,450.15	1/4	3,093.84	1/4	2,736.89	1/4	2,380.19	1/4	2,025.39
1/2	1/2	1/2	4,069.77	1/2	3,934.61	1/2	3,798.36	1/2	3,661.80	1/2	3,442.73	1/2	3,086.40	1/2	2,729.46	1/2	2,372.78	1/2	2,018.01
3/4	3/4	3/4	4,066.97	3/4	3,931.78	3/4	3,795.52	3/4	3,658.95	3/4	3,435.32	3/4	3,078.97	3/4	2,722.02	3/4	2,365.37	3/4	2,010.63
8		8	4,064.16	8	3,928.95	8	3,792.67	8	3,656.11	8	3,427.90	8	3,071.53	8	2,714.58	8	2,357.97	8	2,003.25
1/4	1/4	1/4	4,061.36	1/4	3,926.12	1/4	3,789.83	1/4	3,653.26	1/4	3,420.49	1/4	3,064.10	1/4	2,707.14	1/4	2,350.56	1/4	1,995.87
1/2	1/2	1/2	4,058.55	1/2	3,923.28	1/2	3,786.98	1/2	3,650.42	1/2	3,413.08	1/2	3,056.66	1/2	2,699.71	1/2	2,343.15	1/2	1,988.48
3/4	3/4	3/4	4,055.75	3/4	3,920.45	3/4	3,784.13	3/4	3,647.57	3/4	3,405.66	3/4	3,049.23	3/4	2,692.27	3/4	2,335.75	3/4	1,981.10
9		9	4,052.95	9	3,917.62	9	3,781.29	9	3,644.73	9	3,398.25	9	3,041.80	9	2,684.83	9	2,328.34	9	1,973.72
1/4	1/4	1/4	4,050.14	1/4	3,914.79	1/4	3,778.44	1/4	3,641.88	1/4	3,390.83	1/4	3,034.36	1/4	2,677.39	1/4	2,320.94	1/4	1,966.34
1/2	1/2	1/2	4,047.34	1/2	3,911.96	1/2	3,775.60	1/2	3,639.03	1/2	3,383.42	1/2	3,026.93	1/2	2,669.96	1/2	2,313.53	1/2	1,958.96
3/4	3/4	3/4	4,044.54	3/4	3,909.13	3/4	3,772.75	3/4	3,636.19	3/4	3,376.01	3/4	3,019.49	3/4	2,662.52	3/4	2,306.12	3/4	1,951.57
10		10	4,041.73	10	3,906.30	10	3,769.91	10	3,633.34	10	3,368.59	10	3,012.06	10	2,655.08	10	2,298.72	10	1,944.19
1/4	1/4	1/4	4,038.93	1/4	3,903.47	1/4	3,767.06	1/4	3,630.50	1/4	3,361.18	1/4	3,004.62	1/4	2,647.64	1/4	2,291.31	1/4	1,936.81
1/2	1/2	1/2	4,036.13	1/2	3,900.64	1/2	3,764.22	1/2	3,627.65	1/2	3,353.76	1/2	2,997.19	1/2	2,640.21	1/2	2,283.90	1/2	1,929.43
3/4	3/4	3/4	4,033.32	3/4	3,897.81	3/4	3,761.37	3/4	3,624.81	3/4	3,346.35	3/4	2,989.75	3/4	2,632.77	3/4	2,276.50	3/4	1,922.05
11		11	4,030.52	11	3,894.98	11	3,758.53	11	3,621.96	11	3,338.94	11	2,982.32	11	2,625.33	11	2,269.09	11	1,914.67
1/4	1/4	1/4	4,027.72	1/4	3,892.15	1/4	3,755.68	1/4	3,619.12	1/4	3,331.52	1/4	2,974.88	1/4	2,617.89	1/4	2,261.69	1/4	1,907.28
1/2	1/2	1/2	4,024.91	1/2	3,889.32	1/2	3,752.84	1/2	3,616.27	1/2	3,324.11	1/2	2,967.45	1/2	2,610.46	1/2	2,254.28	1/2	1,899.90
3/4	3/4	3/4	4,022.11	3/4	3,886.49	3/4	3,749.99	3/4	3,613.43	3/4	3,316.69	3/4	2,960.01	3/4	2,603.02	3/4	2,246.87	3/4	1,892.52

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 TO TOP "MMC" VALVE.

GAUGE POINT: (MMC) LOCATED 12'-09" OFF CENTERLINE AND 56'-06" FORWARD OF AFT BULKHEAD.

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

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



# BARGE "KIRBY 28719"

## 3 PORT ULLAGE TABLE "MMC"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMI 30036"

GAUGE HEIGHT 15'-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	1,885.09	0	1,527.79	0	1,170.60	0	823.73	0	472.00	0	118.91	0		0		0		0	
1/4	1,877.66	1/4	1,520.34	1/4	1,163.31	1/4	816.34	1/4	464.55	1/4	111.66	1/4		1/4		1/4		1/4	
1/2	1,870.23	1/2	1,512.90	1/2	1,156.02	1/2	808.95	1/2	457.11	1/2	104.41	1/2		1/2		1/2		1/2	
3/4	1,862.81	3/4	1,505.46	3/4	1,148.74	3/4	801.56	3/4	449.66	3/4	97.16	3/4		3/4		3/4		3/4	
1	1,855.36	1	1,498.01	1	1,141.50	1	794.11	1	442.21	1	89.90	1		1		1		1	
1/4	1,847.92	1/4	1,490.57	1/4	1,134.27	1/4	786.66	1/4	434.76	1/4	82.64	1/4		1/4		1/4		1/4	
1/2	1,840.47	1/2	1,483.12	1/2	1,127.03	1/2	779.22	1/2	427.32	1/2	75.38	1/2		1/2		1/2		1/2	
3/4	1,833.03	3/4	1,475.68	3/4	1,119.80	3/4	771.77	3/4	419.87	3/4	67.92	3/4		3/4		3/4		3/4	
2	1,825.58	2	1,468.23	2	1,112.57	2	764.32	2	412.42	2	61.16	2		2		2		2	
1/4	1,818.14	1/4	1,460.79	1/4	1,105.35	1/4	756.87	1/4	404.97	1/4	54.40	1/4		1/4		1/4		1/4	
1/2	1,810.69	1/2	1,453.34	1/2	1,098.12	1/2	749.42	1/2	397.52	1/2	47.64	1/2		1/2		1/2		1/2	
3/4	1,803.25	3/4	1,445.90	3/4	1,090.90	3/4	741.97	3/4	390.08	3/4	40.88	3/4		3/4		3/4		3/4	
3	1,795.80	3	1,438.45	3	1,083.68	3	734.52	3	382.63	3	35.75	3		3		3		3	
1/4	1,788.36	1/4	1,431.01	1/4	1,076.45	1/4	727.07	1/4	375.18	1/4	30.62	1/4		1/4		1/4		1/4	
1/2	1,780.91	1/2	1,423.56	1/2	1,069.23	1/2	719.62	1/2	367.73	1/2	25.49	1/2		1/2		1/2		1/2	
3/4	1,773.47	3/4	1,416.12	3/4	1,062.01	3/4	712.17	3/4	360.29	3/4		3/4		3/4		3/4		3/4	
4	1,766.02	4	1,408.67	4	1,054.79	4	704.72	4	352.84	4		4		4		4		4	
1/4	1,758.58	1/4	1,401.23	1/4	1,047.57	1/4	697.48	1/4	345.39	1/4		1/4		1/4		1/4		1/4	
1/2	1,751.13	1/2	1,393.78	1/2	1,040.36	1/2	690.23	1/2	337.94	1/2		1/2		1/2		1/2		1/2	
3/4	1,743.69	3/4	1,386.34	3/4	1,033.14	3/4	682.98	3/4	330.50	3/4		3/4		3/4		3/4		3/4	
5	1,736.24	5	1,378.89	5	1,025.92	5	675.74	5	323.05	5		5		5		5		5	
1/4	1,728.80	1/4	1,371.45	1/4	1,018.71	1/4	668.49	1/4	315.60	1/4		1/4		1/4		1/4		1/4	
1/2	1,721.35	1/2	1,364.00	1/2	1,011.50	1/2	661.24	1/2	308.15	1/2		1/2		1/2		1/2		1/2	
3/4	1,713.91	3/4	1,356.56	3/4	1,004.28	3/4	653.99	3/4	300.71	3/4		3/4		3/4		3/4		3/4	
6	1,706.46	6	1,349.11	6	997.07	6	646.75	6	293.26	6		6		6		6		6	
1/4	1,699.02	1/4	1,341.67	1/4	989.85	1/4	639.50	1/4	285.81	1/4		1/4		1/4		1/4		1/4	
1/2	1,691.58	1/2	1,334.22	1/2	982.64	1/2	632.25	1/2	278.36	1/2		1/2		1/2		1/2		1/2	
3/4	1,684.13	3/4	1,326.78	3/4	975.42	3/4	625.00	3/4	271.12	3/4		3/4		3/4		3/4		3/4	
7	1,676.69	7	1,319.34	7	968.21	7	617.76	7	263.87	7		7		7		7		7	
1/4	1,669.24	1/4	1,311.89	1/4	960.99	1/4	610.51	1/4	256.63	1/4		1/4		1/4		1/4		1/4	
1/2	1,661.80	1/2	1,304.45	1/2	953.78	1/2	603.26	1/2	249.38	1/2		1/2		1/2		1/2		1/2	
3/4	1,654.35	3/4	1,297.00	3/4	946.56	3/4	596.01	3/4	242.13	3/4		3/4		3/4		3/4		3/4	
8	1,646.91	8	1,289.56	8	939.35	8	588.77	8	234.89	8		8		8		8		8	
1/4	1,639.46	1/4	1,282.11	1/4	932.13	1/4	581.52	1/4	227.64	1/4		1/4		1/4		1/4		1/4	
1/2	1,632.02	1/2	1,274.67	1/2	924.92	1/2	574.27	1/2	220.39	1/2		1/2		1/2		1/2		1/2	
3/4	1,624.57	3/4	1,267.22	3/4	917.70	3/4	567.02	3/4	213.14	3/4		3/4		3/4		3/4		3/4	
9	1,617.13	9	1,259.78	9	910.49	9	559.78	9	205.90	9		9		9		9		9	
1/4	1,609.68	1/4	1,252.33	1/4	903.27	1/4	552.53	1/4	198.65	1/4		1/4		1/4		1/4		1/4	
1/2	1,602.24	1/2	1,244.89	1/2	896.06	1/2	545.28	1/2	191.40	1/2		1/2		1/2		1/2		1/2	
3/4	1,594.79	3/4	1,237.44	3/4	888.84	3/4	538.03	3/4	184.16	3/4		3/4		3/4		3/4		3/4	
10	1,587.35	10	1,230.00	10	881.63	10	530.79	10	176.91	10		10		10		10		10	
1/4	1,579.90	1/4	1,222.55	1/4	874.41	1/4	523.54	1/4	169.66	1/4		1/4		1/4		1/4		1/4	
1/2	1,572.46	1/2	1,215.11	1/2	867.20	1/2	516.29	1/2	162.41	1/2		1/2		1/2		1/2		1/2	
3/4	1,565.01	3/4	1,207.66	3/4	859.98	3/4	509.04	3/4	155.16	3/4		3/4		3/4		3/4		3/4	
11	1,557.57	11	1,200.22	11	852.77	11	501.80	11	147.91	11		11		11		11		11	
1/4	1,550.12	1/4	1,192.77	1/4	845.55	1/4	494.35	1/4	140.67	1/4		1/4		1/4		1/4		1/4	
1/2	1,542.68	1/2	1,185.33	1/2	838.34	1/2	486.90	1/2	133.42	1/2		1/2		1/2		1/2		1/2	
3/4	1,535.23	3/4	1,177.88	3/4	831.12	3/4	479.45	3/4	126.17	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/21/2012 CL - SW  
CALCULATED: 08/21/2012 CL  
NAME CHANGE: 10/11/2022 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2022

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



# BARGE "KIRBY 28719"

## 3 STBD ULLAGE TABLE "MMC"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMI 30036"

GAUGE HEIGHT 15'-03"

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	4,037.07	0	3,901.35	0	3,764.81	0	3,628.23	0	3,317.19	0	2,959.48	0	2,601.50	0	2,243.21
1/4	1/4			1/4	4,034.27	1/4	3,898.52	1/4	3,761.96	1/4	3,625.38	1/4	3,309.75	1/4	2,952.02	1/4	2,594.04	1/4	2,235.74
1/2	1/2		4,146.87	1/2	4,031.46	1/2	3,895.68	1/2	3,759.12	1/2	3,622.54	1/2	3,302.32	1/2	2,944.57	1/2	2,586.57	1/2	2,228.28
3/4	3/4		4,146.75	3/4	4,028.66	3/4	3,892.84	3/4	3,756.27	3/4	3,619.69	3/4	3,294.88	3/4	2,937.11	3/4	2,579.11	3/4	2,220.81
1		1	4,146.62	1	4,025.86	1	3,890.00	1	3,753.43	1	3,616.85	1	3,287.45	1	2,929.65	1	2,571.64	1	2,213.35
1/4	1/4		4,146.50	1/4	4,023.05	1/4	3,887.16	1/4	3,750.58	1/4	3,614.00	1/4	3,280.02	1/4	2,922.20	1/4	2,564.18	1/4	2,205.88
1/2	1/2		4,145.56	1/2	4,020.23	1/2	3,884.31	1/2	3,747.74	1/2	3,611.16	1/2	3,272.57	1/2	2,914.74	1/2	2,556.72	1/2	2,198.42
3/4	3/4		4,144.62	3/4	4,017.41	3/4	3,881.47	3/4	3,744.89	3/4	3,608.31	3/4	3,265.12	3/4	2,907.28	3/4	2,549.25	3/4	2,190.96
2		2	4,143.68	2	4,014.58	2	3,878.62	2	3,742.04	2	3,605.47	2	3,257.67	2	2,899.82	2	2,541.79	2	2,183.49
1/4	1/4		4,142.74	1/4	4,011.76	1/4	3,875.78	1/4	3,739.20	1/4	3,602.62	1/4	3,250.22	1/4	2,892.37	1/4	2,534.32	1/4	2,176.03
1/2	1/2		4,140.73	1/2	4,008.93	1/2	3,872.93	1/2	3,736.35	1/2	3,596.31	1/2	3,242.76	1/2	2,884.91	1/2	2,526.86	1/2	2,168.56
3/4	3/4		4,138.72	3/4	4,006.10	3/4	3,870.09	3/4	3,733.51	3/4	3,593.01	3/4	3,235.31	3/4	2,877.45	3/4	2,519.39	3/4	2,161.10
3		3	4,136.72	3	4,003.27	3	3,867.24	3	3,730.66	3	3,583.70	3	3,227.85	3	2,869.99	3	2,511.93	3	2,153.63
1/4	1/4		4,134.71	1/4	4,000.44	1/4	3,864.40	1/4	3,727.82	1/4	3,577.40	1/4	3,220.40	1/4	2,862.54	1/4	2,504.46	1/4	2,146.17
1/2	1/2		4,132.03	1/2	3,997.60	1/2	3,861.55	1/2	3,724.97	1/2	3,569.96	1/2	3,212.94	1/2	2,855.08	1/2	2,497.00	1/2	2,138.70
3/4	3/4		4,129.36	3/4	3,994.77	3/4	3,858.71	3/4	3,722.13	3/4	3,562.52	3/4	3,205.49	3/4	2,847.62	3/4	2,489.54	3/4	2,131.24
4		4	4,126.69	4	3,991.94	4	3,855.86	4	3,719.28	4	3,555.08	4	3,198.04	4	2,840.17	4	2,482.07	4	2,123.77
1/4	1/4		4,124.01	1/4	3,989.11	1/4	3,853.02	1/4	3,716.44	1/4	3,547.64	1/4	3,190.58	1/4	2,832.71	1/4	2,474.61	1/4	2,116.31
1/2	1/2		4,121.21	1/2	3,986.28	1/2	3,850.17	1/2	3,713.59	1/2	3,540.20	1/2	3,183.13	1/2	2,825.25	1/2	2,467.14	1/2	2,108.85
3/4	3/4		4,118.40	3/4	3,983.45	3/4	3,847.32	3/4	3,710.75	3/4	3,532.77	3/4	3,175.67	3/4	2,817.79	3/4	2,459.68	3/4	2,101.38
5		5	4,115.60	5	3,980.62	5	3,844.48	5	3,707.90	5	3,525.34	5	3,168.22	5	2,810.34	5	2,452.21	5	2,093.92
1/4	1/4		4,112.79	1/4	3,977.79	1/4	3,841.63	1/4	3,705.05	1/4	3,517.90	1/4	3,160.76	1/4	2,802.88	1/4	2,444.75	1/4	2,086.45
1/2	1/2		4,109.98	1/2	3,974.96	1/2	3,838.79	1/2	3,702.21	1/2	3,510.47	1/2	3,153.31	1/2	2,795.42	1/2	2,437.28	1/2	2,078.99
3/4	3/4		4,107.18	3/4	3,972.13	3/4	3,835.94	3/4	3,699.36	3/4	3,503.03	3/4	3,145.85	3/4	2,787.96	3/4	2,429.82	3/4	2,071.52
6		6	4,104.37	6	3,969.30	6	3,833.10	6	3,696.52	6	3,495.60	6	3,138.40	6	2,780.51	6	2,422.35	6	2,064.06
1/4	1/4		4,101.56	1/4	3,966.46	1/4	3,830.25	1/4	3,693.67	1/4	3,488.17	1/4	3,130.94	1/4	2,773.05	1/4	2,414.89	1/4	2,056.59
1/2	1/2		4,098.76	1/2	3,963.63	1/2	3,827.41	1/2	3,690.83	1/2	3,480.73	1/2	3,123.49	1/2	2,765.59	1/2	2,407.43	1/2	2,049.13
3/4	3/4		4,095.95	3/4	3,960.80	3/4	3,824.56	3/4	3,687.98	3/4	3,473.30	3/4	3,116.03	3/4	2,758.14	3/4	2,399.96	3/4	2,041.67
7		7	4,093.15	7	3,957.97	7	3,821.72	7	3,685.14	7	3,465.86	7	3,108.58	7	2,750.68	7	2,392.50	7	2,034.20
1/4	1/4		4,090.34	1/4	3,955.14	1/4	3,818.87	1/4	3,682.29	1/4	3,458.43	1/4	3,101.13	1/4	2,743.22	1/4	2,385.03	1/4	2,026.74
1/2	1/2		4,087.54	1/2	3,952.31	1/2	3,816.02	1/2	3,679.45	1/2	3,451.00	1/2	3,093.67	1/2	2,735.76	1/2	2,377.57	1/2	2,019.27
3/4	3/4		4,084.73	3/4	3,949.48	3/4	3,813.18	3/4	3,676.60	3/4	3,443.56	3/4	3,086.22	3/4	2,728.31	3/4	2,370.10	3/4	2,011.81
8		8	4,081.93	8	3,946.65	8	3,810.33	8	3,673.75	8	3,436.13	8	3,078.76	8	2,720.85	8	2,362.64	8	2,004.34
1/4	1/4		4,079.12	1/4	3,943.82	1/4	3,807.49	1/4	3,670.91	1/4	3,428.69	1/4	3,071.31	1/4	2,713.39	1/4	2,355.17	1/4	1,996.88
1/2	1/2		4,076.32	1/2	3,940.99	1/2	3,804.64	1/2	3,668.06	1/2	3,421.26	1/2	3,063.85	1/2	2,705.93	1/2	2,347.71	1/2	1,989.41
3/4	3/4		4,073.52	3/4	3,938.16	3/4	3,801.80	3/4	3,665.22	3/4	3,413.83	3/4	3,056.40	3/4	2,698.48	3/4	2,340.25	3/4	1,981.95
9		9	4,070.71	9	3,935.32	9	3,798.95	9	3,662.37	9	3,406.39	9	3,048.94	9	2,691.02	9	2,332.78	9	1,974.48
1/4	1/4		4,067.91	1/4	3,932.49	1/4	3,796.11	1/4	3,659.53	1/4	3,398.96	1/4	3,041.49	1/4	2,683.56	1/4	2,325.32	1/4	1,967.02
1/2	1/2		4,065.11	1/2	3,929.66	1/2	3,793.26	1/2	3,656.68	1/2	3,391.53	1/2	3,034.03	1/2	2,676.10	1/2	2,317.85	1/2	1,959.56
3/4	3/4		4,062.30	3/4	3,926.83	3/4	3,790.42	3/4	3,653.84	3/4	3,384.09	3/4	3,026.58	3/4	2,668.65	3/4	2,310.39	3/4	1,952.09
10		10	4,059.50	10	3,924.00	10	3,787.57	10	3,650.99	10	3,376.66	10	3,019.13	10	2,661.19	10	2,302.92	10	1,944.63
1/4	1/4		4,056.70	1/4	3,921.17	1/4	3,784.73	1/4	3,648.15	1/4	3,369.22	1/4	3,011.67	1/4	2,653.73	1/4	2,295.46	1/4	1,937.16
1/2	1/2		4,053.89	1/2	3,918.34	1/2	3,781.88	1/2	3,645.30	1/2	3,361.79	1/2	3,004.22	1/2	2,646.28	1/2	2,287.99	1/2	1,929.70
3/4	3/4		4,051.09	3/4	3,915.51	3/4	3,779.03	3/4	3,642.46	3/4	3,354.36	3/4	2,996.76	3/4	2,638.82	3/4	2,280.53	3/4	1,922.23
11		11	4,048.28	11	3,912.68	11	3,776.19	11	3,639.61	11	3,346.92	11	2,989.31	11	2,631.36	11	2,273.06	11	1,914.77
1/4	1/4		4,045.48	1/4	3,909.85	1/4	3,773.34	1/4	3,636.76	1/4	3,339.49	1/4	2,981.85	1/4	2,623.90	1/4	2,265.60	1/4	1,907.30
1/2	1/2		4,042.68	1/2	3,907.02	1/2	3,770.50	1/2	3,633.92	1/2	3,332.05	1/2	2,974.40	1/2	2,616.44	1/2	2,258.14	1/2	1,899.84
3/4	3/4		4,039.87	3/4	3,904.18	3/4	3,767.65	3/4	3,631.07	3/4	3,324.62	3/4	2,966.94	3/4	2,608.97	3/4	2,250.67	3/4	1,892.38

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 TO TOP "MMC" VALVE.

GAUGE POINT: (MMC) LOCATED 12'-09" OFF CENTERLINE AND 56'-06" FORWARD OF AFT BULKHEAD.

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

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



# BARGE "KIRBY 28719"

## 3 STBD ULLAGE TABLE "MMC"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMI 30036"

GAUGE HEIGHT 15'-03"

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	1,884.91	0	1,526.61	0	1,168.32	0	810.57	0	457.93	0	104.48	0		0		0		0	
1/4	1,877.45	1/4	1,519.15	1/4	1,160.85	1/4	803.11	1/4	450.46	1/4	97.21	1/4		1/4		1/4		1/4	
1/2	1,869.98	1/2	1,511.69	1/2	1,153.39	1/2	795.64	1/2	443.00	1/2	89.95	1/2		1/2		1/2		1/2	
3/4	1,862.52	3/4	1,504.22	3/4	1,145.93	3/4	788.18	3/4	435.53	3/4	82.69	3/4		3/4		3/4		3/4	
1	1,855.05	1	1,496.76	1	1,138.46	1	780.71	1	428.07	1	75.42	1		1		1		1	
1/4	1,847.59	1/4	1,489.29	1/4	1,131.00	1/4	773.25	1/4	420.60	1/4	67.96	1/4		1/4		1/4		1/4	
1/2	1,840.12	1/2	1,481.83	1/2	1,123.54	1/2	765.79	1/2	413.14	1/2	61.20	1/2		1/2		1/2		1/2	
3/4	1,832.66	3/4	1,474.36	3/4	1,116.08	3/4	758.32	3/4	405.68	3/4	54.43	3/4		3/4		3/4		3/4	
2	1,825.19	2	1,466.90	2	1,108.62	2	750.86	2	398.21	2	47.67	2		2		2		2	
1/4	1,817.73	1/4	1,459.43	1/4	1,101.16	1/4	743.39	1/4	390.75	1/4	40.90	1/4		1/4		1/4		1/4	
1/2	1,810.27	1/2	1,451.97	1/2	1,093.70	1/2	735.93	1/2	383.28	1/2	35.77	1/2		1/2		1/2		1/2	
3/4	1,802.80	3/4	1,444.51	3/4	1,086.25	3/4	728.47	3/4	375.82	3/4	30.64	3/4		3/4		3/4		3/4	
3	1,795.34	3	1,437.04	3	1,078.79	3	721.00	3	368.35	3	25.50	3		3		3		3	
1/4	1,787.87	1/4	1,429.58	1/4	1,071.33	1/4	713.54	1/4	360.89	1/4		1/4		1/4		1/4		1/4	
1/2	1,780.41	1/2	1,422.11	1/2	1,063.88	1/2	706.07	1/2	353.43	1/2		1/2		1/2		1/2		1/2	
3/4	1,772.94	3/4	1,414.65	3/4	1,056.43	3/4	698.81	3/4	345.96	3/4		3/4		3/4		3/4		3/4	
4	1,765.48	4	1,407.18	4	1,048.98	4	691.55	4	338.50	4	4	4		4		4		4	
1/4	1,758.01	1/4	1,399.72	1/4	1,041.53	1/4	684.28	1/4	331.03	1/4		1/4		1/4		1/4		1/4	
1/2	1,750.55	1/2	1,392.25	1/2	1,034.08	1/2	677.02	1/2	323.57	1/2		1/2		1/2		1/2		1/2	
3/4	1,743.09	3/4	1,384.79	3/4	1,026.63	3/4	669.76	3/4	316.10	3/4		3/4		3/4		3/4		3/4	
5	1,735.62	5	1,377.32	5	1,019.18	5	662.50	5	308.64	5	5	5		5		5		5	
1/4	1,728.16	1/4	1,369.86	1/4	1,011.73	1/4	655.23	1/4	301.18	1/4		1/4		1/4		1/4		1/4	
1/2	1,720.69	1/2	1,362.40	1/2	1,004.28	1/2	647.97	1/2	293.71	1/2		1/2		1/2		1/2		1/2	
3/4	1,713.23	3/4	1,354.93	3/4	996.83	3/4	640.71	3/4	286.25	3/4		3/4		3/4		3/4		3/4	
6	1,705.76	6	1,347.47	6	989.38	6	633.44	6	278.78	6	6	6		6		6		6	
1/4	1,698.30	1/4	1,340.00	1/4	981.93	1/4	626.18	1/4	271.52	1/4		1/4		1/4		1/4		1/4	
1/2	1,690.83	1/2	1,332.54	1/2	974.49	1/2	618.92	1/2	264.26	1/2		1/2		1/2		1/2		1/2	
3/4	1,683.37	3/4	1,325.07	3/4	967.04	3/4	611.66	3/4	256.99	3/4		3/4		3/4		3/4		3/4	
7	1,675.90	7	1,317.61	7	959.59	7	604.39	7	249.73	7	7	7		7		7		7	
1/4	1,668.44	1/4	1,310.14	1/4	952.14	1/4	597.13	1/4	242.47	1/4		1/4		1/4		1/4		1/4	
1/2	1,660.98	1/2	1,302.68	1/2	944.69	1/2	589.87	1/2	235.21	1/2		1/2		1/2		1/2		1/2	
3/4	1,653.51	3/4	1,295.22	3/4	937.24	3/4	582.60	3/4	227.94	3/4		3/4		3/4		3/4		3/4	
8	1,646.05	8	1,287.75	8	929.79	8	575.34	8	220.68	8	8	8		8		8		8	
1/4	1,638.58	1/4	1,280.29	1/4	922.34	1/4	568.08	1/4	213.42	1/4		1/4		1/4		1/4		1/4	
1/2	1,631.12	1/2	1,272.82	1/2	914.89	1/2	560.81	1/2	206.15	1/2		1/2		1/2		1/2		1/2	
3/4	1,623.65	3/4	1,265.36	3/4	907.44	3/4	553.55	3/4	198.89	3/4		3/4		3/4		3/4		3/4	
9	1,616.19	9	1,257.89	9	899.99	9	546.29	9	191.63	9	9	9		9		9		9	
1/4	1,608.72	1/4	1,250.43	1/4	892.54	1/4	539.03	1/4	184.37	1/4		1/4		1/4		1/4		1/4	
1/2	1,601.26	1/2	1,242.96	1/2	885.09	1/2	531.76	1/2	177.10	1/2		1/2		1/2		1/2		1/2	
3/4	1,593.80	3/4	1,235.50	3/4	877.65	3/4	524.50	3/4	169.84	3/4		3/4		3/4		3/4		3/4	
10	1,586.33	10	1,228.03	10	870.20	10	517.24	10	162.58	10	10	10		10		10		10	
1/4	1,578.87	1/4	1,220.57	1/4	862.75	1/4	509.97	1/4	155.31	1/4		1/4		1/4		1/4		1/4	
1/2	1,571.40	1/2	1,213.11	1/2	855.30	1/2	502.71	1/2	148.05	1/2		1/2		1/2		1/2		1/2	
3/4	1,563.94	3/4	1,205.64	3/4	847.85	3/4	495.25	3/4	140.79	3/4		3/4		3/4		3/4		3/4	
11	1,556.47	11	1,198.18	11	840.40	11	487.78	11	133.53	11	11	11		11		11		11	
1/4	1,549.01	1/4	1,190.71	1/4	832.95	1/4	480.32	1/4	126.26	1/4		1/4		1/4		1/4		1/4	
1/2	1,541.54	1/2	1,183.25	1/2	825.49	1/2	472.85	1/2	119.00	1/2		1/2		1/2		1/2		1/2	
3/4	1,534.08	3/4	1,175.78	3/4	818.03	3/4	465.39	3/4	111.74	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/21/2012 CL - SW  
CALCULATED: 08/21/2012 CL  
NAME CHANGE: 10/11/2022 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2022

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
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# BARGE "KIRBY 28719"

# PORT FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

FORMERLY "SMI 30036"

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	1,231	0	2,461	0	3,692	0	4,922	0	6,153	0		0		0		0	
1/4	26	1/4	1,256	1/4	2,487	1/4	3,717	1/4	4,948	1/4	6,178	1/4		1/4		1/4		1/4	
1/2	51	1/2	1,282	1/2	2,512	1/2	3,743	1/2	4,973	1/2	6,204	1/2		1/2		1/2		1/2	
3/4	77	3/4	1,307	3/4	2,538	3/4	3,769	3/4	4,999	3/4	6,230	3/4		3/4		3/4		3/4	
1	103	1	1,333	1	2,564	1	3,794	1	5,025	1	6,255	1		1		1		1	
1/4	128	1/4	1,359	1/4	2,589	1/4	3,820	1/4	5,050	1/4	6,281	1/4		1/4		1/4		1/4	
1/2	154	1/2	1,384	1/2	2,615	1/2	3,845	1/2	5,076	1/2	6,307	1/2		1/2		1/2		1/2	
3/4	179	3/4	1,410	3/4	2,641	3/4	3,871	3/4	5,102	3/4	6,332	3/4		3/4		3/4		3/4	
2	205	2	1,436	2	2,666	2	3,897	2	5,127	2	6,358	2		2		2		2	
1/4	231	1/4	1,461	1/4	2,692	1/4	3,922	1/4	5,153	1/4	6,383	1/4		1/4		1/4		1/4	
1/2	256	1/2	1,487	1/2	2,717	1/2	3,948	1/2	5,179	1/2	6,409	1/2		1/2		1/2		1/2	
3/4	282	3/4	1,513	3/4	2,743	3/4	3,974	3/4	5,204	3/4	6,435	3/4		3/4		3/4		3/4	
3	308	3	1,538	3	2,769	3	3,999	3	5,230	3	6,460	3		3		3		3	
1/4	333	1/4	1,564	1/4	2,794	1/4	4,025	1/4	5,255	1/4	6,486	1/4		1/4		1/4		1/4	
1/2	359	1/2	1,589	1/2	2,820	1/2	4,051	1/2	5,281	1/2	6,512	1/2		1/2		1/2		1/2	
3/4	385	3/4	1,615	3/4	2,846	3/4	4,076	3/4	5,307	3/4	6,537	3/4		3/4		3/4		3/4	
4	410	4	1,641	4	2,871	4	4,102	4	5,332	4	6,563	4		4		4		4	
1/4	436	1/4	1,666	1/4	2,897	1/4	4,127	1/4	5,358	1/4		1/4		1/4		1/4		1/4	
1/2	461	1/2	1,692	1/2	2,923	1/2	4,153	1/2	5,384	1/2		1/2		1/2		1/2		1/2	
3/4	487	3/4	1,718	3/4	2,948	3/4	4,179	3/4	5,409	3/4		3/4		3/4		3/4		3/4	
5	513	5	1,743	5	2,974	5	4,204	5	5,435	5		5		5		5		5	
1/4	538	1/4	1,769	1/4	2,999	1/4	4,230	1/4	5,461	1/4		1/4		1/4		1/4		1/4	
1/2	564	1/2	1,795	1/2	3,025	1/2	4,256	1/2	5,486	1/2		1/2		1/2		1/2		1/2	
3/4	590	3/4	1,820	3/4	3,051	3/4	4,281	3/4	5,512	3/4		3/4		3/4		3/4		3/4	
6	615	6	1,846	6	3,076	6	4,307	6	5,537	6		6		6		6		6	
1/4	641	1/4	1,871	1/4	3,102	1/4	4,333	1/4	5,563	1/4		1/4		1/4		1/4		1/4	
1/2	667	1/2	1,897	1/2	3,128	1/2	4,358	1/2	5,589	1/2		1/2		1/2		1/2		1/2	
3/4	692	3/4	1,923	3/4	3,153	3/4	4,384	3/4	5,614	3/4		3/4		3/4		3/4		3/4	
7	718	7	1,948	7	3,179	7	4,409	7	5,640	7		7		7		7		7	
1/4	743	1/4	1,974	1/4	3,205	1/4	4,435	1/4	5,666	1/4		1/4		1/4		1/4		1/4	
1/2	769	1/2	2,000	1/2	3,230	1/2	4,461	1/2	5,691	1/2		1/2		1/2		1/2		1/2	
3/4	795	3/4	2,025	3/4	3,256	3/4	4,486	3/4	5,717	3/4		3/4		3/4		3/4		3/4	
8	820	8	2,051	8	3,281	8	4,512	8	5,743	8		8		8		8		8	
1/4	846	1/4	2,077	1/4	3,307	1/4	4,538	1/4	5,768	1/4		1/4		1/4		1/4		1/4	
1/2	872	1/2	2,102	1/2	3,333	1/2	4,563	1/2	5,794	1/2		1/2		1/2		1/2		1/2	
3/4	897	3/4	2,128	3/4	3,358	3/4	4,589	3/4	5,819	3/4		3/4		3/4		3/4		3/4	
9	923	9	2,153	9	3,384	9	4,615	9	5,845	9		9		9		9		9	
1/4	949	1/4	2,179	1/4	3,410	1/4	4,640	1/4	5,871	1/4		1/4		1/4		1/4		1/4	
1/2	974	1/2	2,205	1/2	3,435	1/2	4,666	1/2	5,896	1/2		1/2		1/2		1/2		1/2	
3/4	1,000	3/4	2,230	3/4	3,461	3/4	4,691	3/4	5,922	3/4		3/4		3/4		3/4		3/4	
10	1,025	10	2,256	10	3,487	10	4,717	10	5,948	10		10		10		10		10	
1/4	1,051	1/4	2,282	1/4	3,512	1/4	4,743	1/4	5,973	1/4		1/4		1/4		1/4		1/4	
1/2	1,077	1/2	2,307	1/2	3,538	1/2	4,768	1/2	5,999	1/2		1/2		1/2		1/2		1/2	
3/4	1,102	3/4	2,333	3/4	3,563	3/4	4,794	3/4	6,025	3/4		3/4		3/4		3/4		3/4	
11	1,128	11	2,359	11	3,589	11	4,820	11	6,050	11		11		11		11		11	
1/4	1,154	1/4	2,384	1/4	3,615	1/4	4,845	1/4	6,076	1/4		1/4		1/4		1/4		1/4	
1/2	1,179	1/2	2,410	1/2	3,640	1/2	4,871	1/2	6,101	1/2		1/2		1/2		1/2		1/2	
3/4	1,205	3/4	2,435	3/4	3,666	3/4	4,897	3/4	6,127	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 .

STRAPPED: 10/06/2022 JS  
CALCULATED: 03/28/2023 CL  
PRINTED: 03/29/2023 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 03/2023

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588  
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# BARGE "KIRBY 28719"

# STBD FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

FORMERLY "SMI 30036"

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	1,231	0	2,461	0	3,692	0	4,922	0	6,153	0		0		0		0	
1/4	26	1/4	1,256	1/4	2,487	1/4	3,717	1/4	4,948	1/4	6,178	1/4		1/4		1/4		1/4	
1/2	51	1/2	1,282	1/2	2,512	1/2	3,743	1/2	4,973	1/2	6,204	1/2		1/2		1/2		1/2	
3/4	77	3/4	1,307	3/4	2,538	3/4	3,769	3/4	4,999	3/4	6,230	3/4		3/4		3/4		3/4	
1	103	1	1,333	1	2,564	1	3,794	1	5,025	1	6,255	1		1		1		1	
1/4	128	1/4	1,359	1/4	2,589	1/4	3,820	1/4	5,050	1/4	6,281	1/4		1/4		1/4		1/4	
1/2	154	1/2	1,384	1/2	2,615	1/2	3,845	1/2	5,076	1/2	6,307	1/2		1/2		1/2		1/2	
3/4	179	3/4	1,410	3/4	2,641	3/4	3,871	3/4	5,102	3/4	6,332	3/4		3/4		3/4		3/4	
2	205	2	1,436	2	2,666	2	3,897	2	5,127	2	6,358	2		2		2		2	
1/4	231	1/4	1,461	1/4	2,692	1/4	3,922	1/4	5,153	1/4	6,383	1/4		1/4		1/4		1/4	
1/2	256	1/2	1,487	1/2	2,717	1/2	3,948	1/2	5,179	1/2	6,409	1/2		1/2		1/2		1/2	
3/4	282	3/4	1,513	3/4	2,743	3/4	3,974	3/4	5,204	3/4	6,435	3/4		3/4		3/4		3/4	
3	308	3	1,538	3	2,769	3	3,999	3	5,230	3	6,460	3		3		3		3	
1/4	333	1/4	1,564	1/4	2,794	1/4	4,025	1/4	5,255	1/4	6,486	1/4		1/4		1/4		1/4	
1/2	359	1/2	1,589	1/2	2,820	1/2	4,051	1/2	5,281	1/2	6,512	1/2		1/2		1/2		1/2	
3/4	385	3/4	1,615	3/4	2,846	3/4	4,076	3/4	5,307	3/4	6,537	3/4		3/4		3/4		3/4	
4	410	4	1,641	4	2,871	4	4,102	4	5,332	4	6,563	4		4		4		4	
1/4	436	1/4	1,666	1/4	2,897	1/4	4,127	1/4	5,358	1/4		1/4		1/4		1/4		1/4	
1/2	461	1/2	1,692	1/2	2,923	1/2	4,153	1/2	5,384	1/2		1/2		1/2		1/2		1/2	
3/4	487	3/4	1,718	3/4	2,948	3/4	4,179	3/4	5,409	3/4		3/4		3/4		3/4		3/4	
5	513	5	1,743	5	2,974	5	4,204	5	5,435	5		5		5		5		5	
1/4	538	1/4	1,769	1/4	2,999	1/4	4,230	1/4	5,461	1/4		1/4		1/4		1/4		1/4	
1/2	564	1/2	1,795	1/2	3,025	1/2	4,256	1/2	5,486	1/2		1/2		1/2		1/2		1/2	
3/4	590	3/4	1,820	3/4	3,051	3/4	4,281	3/4	5,512	3/4		3/4		3/4		3/4		3/4	
6	615	6	1,846	6	3,076	6	4,307	6	5,537	6		6		6		6		6	
1/4	641	1/4	1,871	1/4	3,102	1/4	4,333	1/4	5,563	1/4		1/4		1/4		1/4		1/4	
1/2	667	1/2	1,897	1/2	3,128	1/2	4,358	1/2	5,589	1/2		1/2		1/2		1/2		1/2	
3/4	692	3/4	1,923	3/4	3,153	3/4	4,384	3/4	5,614	3/4		3/4		3/4		3/4		3/4	
7	718	7	1,948	7	3,179	7	4,409	7	5,640	7		7		7		7		7	
1/4	743	1/4	1,974	1/4	3,205	1/4	4,435	1/4	5,666	1/4		1/4		1/4		1/4		1/4	
1/2	769	1/2	2,000	1/2	3,230	1/2	4,461	1/2	5,691	1/2		1/2		1/2		1/2		1/2	
3/4	795	3/4	2,025	3/4	3,256	3/4	4,486	3/4	5,717	3/4		3/4		3/4		3/4		3/4	
8	820	8	2,051	8	3,281	8	4,512	8	5,743	8		8		8		8		8	
1/4	846	1/4	2,077	1/4	3,307	1/4	4,538	1/4	5,768	1/4		1/4		1/4		1/4		1/4	
1/2	872	1/2	2,102	1/2	3,333	1/2	4,563	1/2	5,794	1/2		1/2		1/2		1/2		1/2	
3/4	897	3/4	2,128	3/4	3,358	3/4	4,589	3/4	5,819	3/4		3/4		3/4		3/4		3/4	
9	923	9	2,153	9	3,384	9	4,615	9	5,845	9		9		9		9		9	
1/4	949	1/4	2,179	1/4	3,410	1/4	4,640	1/4	5,871	1/4		1/4		1/4		1/4		1/4	
1/2	974	1/2	2,205	1/2	3,435	1/2	4,666	1/2	5,896	1/2		1/2		1/2		1/2		1/2	
3/4	1,000	3/4	2,230	3/4	3,461	3/4	4,691	3/4	5,922	3/4		3/4		3/4		3/4		3/4	
10	1,025	10	2,256	10	3,487	10	4,717	10	5,948	10		10		10		10		10	
1/4	1,051	1/4	2,282	1/4	3,512	1/4	4,743	1/4	5,973	1/4		1/4		1/4		1/4		1/4	
1/2	1,077	1/2	2,307	1/2	3,538	1/2	4,768	1/2	5,999	1/2		1/2		1/2		1/2		1/2	
3/4	1,102	3/4	2,333	3/4	3,563	3/4	4,794	3/4	6,025	3/4		3/4		3/4		3/4		3/4	
11	1,128	11	2,359	11	3,589	11	4,820	11	6,050	11		11		11		11		11	
1/4	1,154	1/4	2,384	1/4	3,615	1/4	4,845	1/4	6,076	1/4		1/4		1/4		1/4		1/4	
1/2	1,179	1/2	2,410	1/2	3,640	1/2	4,871	1/2	6,101	1/2		1/2		1/2		1/2		1/2	
3/4	1,205	3/4	2,435	3/4	3,666	3/4	4,897	3/4	6,127	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 .

STRAPPED: 10/06/2022 JS  
CALCULATED: 03/28/2023 CL  
PRINTED: 03/29/2023 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 03/2023

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 28719"

## FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

FORMERLY "SMI 30036"

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	
1/4	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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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: 08/21/2012 CL - SW  
CALCULATED: 08/21/2012 CL  
NAME CHANGE: 10/11/2022 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2022

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