



# BARGE "KIRBY 29159"

## ULLAGE TRIM TABLE

FORMERLY "SMI 30022"

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
1 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
2 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
2 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	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 = 6'-00"  
 DIFF. = 4'-00" (DOWN BY STERN)

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

LENGTH BETWEEN DRAFT MARKS: 235'-09"

July 29, 2021

**PRECISION MEASUREMENT  
& ANALYSIS, INC.**

P.O. Box 2092  
 Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "KIRBY 29159"

## 1 PORT ULLAGE TABLE HERMETIC GAUGE HEIGHT 17'-05"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMI 30022"

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	5,085.78	0	4,767.45	0	4,409.42	0	4,051.39	0	3,693.36	0	3,335.32	0	2,977.29		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,082.67	1/4	4,759.99	1/4	4,401.96	1/4	4,043.93	1/4	3,685.90	1/4	3,327.86	1/4	2,969.83		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,079.56	1/2	4,752.53	1/2	4,394.50	1/2	4,036.47	1/2	3,678.44	1/2	3,320.40	1/2	2,962.37		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,076.45	3/4	4,745.08	3/4	4,387.04	3/4	4,029.01	3/4	3,670.98	3/4	3,312.95	3/4	2,954.92		
1	1	1	1	1	1	1	5,073.34	1	4,737.62	1	4,379.58	1	4,021.55	1	3,663.52	1	3,305.49	1	2,947.46		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,068.99	1/4	4,730.16	1/4	4,372.12	1/4	4,014.09	1/4	3,656.06	1/4	3,298.03	1/4	2,940.00		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,064.63	1/2	4,722.70	1/2	4,364.66	1/2	4,006.63	1/2	3,648.60	1/2	3,290.57	1/2	2,932.54		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,060.28	3/4	4,715.24	3/4	4,357.21	3/4	3,999.18	3/4	3,641.14	3/4	3,283.11	3/4	2,925.08		
2	2	2	2	2	2	2	5,055.92	2	4,707.78	2	4,349.75	2	3,991.72	2	3,633.68	2	3,275.65	2	2,917.62		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,050.32	1/4	4,700.32	1/4	4,342.29	1/4	3,984.26	1/4	3,626.22	1/4	3,268.19	1/4	2,910.16		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,044.72	1/2	4,692.86	1/2	4,334.83	1/2	3,976.80	1/2	3,618.76	1/2	3,260.73	1/2	2,902.70		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,039.12	3/4	4,685.40	3/4	4,327.37	3/4	3,969.34	3/4	3,611.31	3/4	3,253.28	3/4	2,895.24		
3	3	3	3	3	3	3	5,033.52	3	4,677.94	3	4,319.91	3	3,961.88	3	3,603.85	3	3,245.82	3	2,887.78		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,026.68	1/4	4,670.48	1/4	4,312.45	1/4	3,954.42	1/4	3,596.39	1/4	3,238.36	1/4	2,880.32		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,019.83	1/2	4,663.02	1/2	4,304.99	1/2	3,946.96	1/2	3,588.93	1/2	3,230.90	1/2	2,872.86		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,012.99	3/4	4,655.57	3/4	4,297.54	3/4	3,939.50	3/4	3,581.47	3/4	3,223.44	3/4	2,865.41		
4	4	4	4	4	4	4	5,006.14	4	4,648.11	4	4,290.08	4	3,932.04	4	3,574.01	4	3,215.98	4	2,857.95		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,998.68	1/4	4,640.65	1/4	4,282.62	1/4	3,924.58	1/4	3,566.55	1/4	3,208.52	1/4	2,850.49		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,991.22	1/2	4,633.19	1/2	4,275.16	1/2	3,917.12	1/2	3,559.09	1/2	3,201.06	1/2	2,843.03		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,983.76	3/4	4,625.73	3/4	4,267.70	3/4	3,909.67	3/4	3,551.64	3/4	3,193.60	3/4	2,835.57		
5	5	5	5	5	5	5	4,976.30	5	4,618.27	5	4,260.24	5	3,902.21	5	3,544.18	5	3,186.14	5	2,828.11		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,968.84	1/4	4,610.81	1/4	4,252.78	1/4	3,894.75	1/4	3,536.72	1/4	3,178.68	1/4	2,820.65		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,961.39	1/2	4,603.35	1/2	4,245.32	1/2	3,887.29	1/2	3,529.26	1/2	3,171.22	1/2	2,813.19		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,953.93	3/4	4,595.90	3/4	4,237.86	3/4	3,879.83	3/4	3,521.80	3/4	3,163.77	3/4	2,805.74		
6	6	6	6	6	6	6	4,946.47	6	4,588.44	6	4,230.40	6	3,872.37	6	3,514.34	6	3,156.31	6	2,798.28		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,939.01	1/4	4,580.98	1/4	4,222.94	1/4	3,864.91	1/4	3,506.88	1/4	3,148.85	1/4	2,790.82		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,931.55	1/2	4,573.52	1/2	4,215.48	1/2	3,857.45	1/2	3,499.42	1/2	3,141.39	1/2	2,783.36		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,924.09	3/4	4,566.06	3/4	4,208.03	3/4	3,850.00	3/4	3,491.96	3/4	3,133.93	3/4	2,775.90		
7	7	7	7	7	7	7	4,916.63	7	4,558.60	7	4,200.57	7	3,842.54	7	3,484.50	7	3,126.47	7	2,768.44		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,909.17	1/4	4,551.14	1/4	4,193.11	1/4	3,835.08	1/4	3,477.04	1/4	3,119.01	1/4	2,760.98		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,901.71	1/2	4,543.68	1/2	4,185.65	1/2	3,827.62	1/2	3,469.58	1/2	3,111.55	1/2	2,753.52		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,894.26	3/4	4,536.22	3/4	4,178.19	3/4	3,820.16	3/4	3,462.13	3/4	3,104.10	3/4	2,746.06		
8	8	8	8	8	8	8	4,886.80	8	4,528.76	8	4,170.73	8	3,812.70	8	3,454.67	8	3,096.64	8	2,738.60		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,879.34	1/4	4,521.30	1/4	4,163.27	1/4	3,805.24	1/4	3,447.21	1/4	3,089.18	1/4	2,731.14		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,871.88	1/2	4,513.84	1/2	4,155.81	1/2	3,797.78	1/2	3,439.75	1/2	3,081.72	1/2	2,723.68		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,864.42	3/4	4,506.39	3/4	4,148.36	3/4	3,790.32	3/4	3,432.29	3/4	3,074.26	3/4	2,716.23		
9	9	9	9	9	9	9	4,856.96	9	4,498.93	9	4,140.90	9	3,782.86	9	3,424.83	9	3,066.80	9	2,708.77		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,849.50	1/4	4,491.47	1/4	4,133.44	1/4	3,775.40	1/4	3,417.37	1/4	3,059.34	1/4	2,701.31		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,842.04	1/2	4,484.01	1/2	4,125.98	1/2	3,767.94	1/2	3,409.91	1/2	3,051.88	1/2	2,693.85		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,834.58	3/4	4,476.55	3/4	4,118.52	3/4	3,760.49	3/4	3,402.46	3/4	3,044.42	3/4	2,686.39		
10	10	10	10	10	10	10	5,095.74	10	4,827.12	10	4,469.09	10	4,111.06	10	3,753.03	10	3,395.00	10	3,036.96	10	2,678.93
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,091.38	1/4	4,819.66	1/4	4,461.63	1/4	4,103.60	1/4	3,745.57	1/4	3,387.54	1/4	3,029.50	1/4	2,671.47
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,094.50	1/2	4,812.20	1/2	4,454.17	1/2	4,096.14	1/2	3,738.11	1/2	3,380.08	1/2	3,022.04	1/2	2,664.01
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,093.87	3/4	4,804.75	3/4	4,446.72	3/4	4,088.68	3/4	3,730.65	3/4	3,372.62	3/4	3,014.59	3/4	2,656.56
11	11	11	11	11	11	11	5,093.25	11	4,797.29	11	4,439.26	11	4,081.22	11	3,723.19	11	3,365.16	11	3,007.13	11	2,649.10
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,091.38	1/4	4,789.83	1/4	4,431.80	1/4	4,073.76	1/4	3,715.73	1/4	3,357.70	1/4	2,999.67	1/4	2,641.64
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,089.52	1/2	4,782.37	1/2	4,424.34	1/2	4,066.30	1/2	3,708.27	1/2	3,350.24	1/2	2,992.21	1/2	2,634.18
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,087.65	3/4	4,774.91	3/4	4,416.88	3/4	4,058.85	3/4	3,700.82	3/4	3,342.78	3/4	2,984.75	3/4	2,626.72

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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" CLOSED GAUGING DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-03" FORWARD OF AFT BULKHEAD.

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



# BARGE "KIRBY 29159"

**1 PORT**  
**ULLAGE TABLE**  
**HERMETIC**  
**GAUGE HEIGHT 17'-05"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMI 30022"

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	2,619.26	0	2,261.23	0	1,903.20	0	1,545.16	0	1,187.13	0	829.10	0	471.29	0	133.80	0		0	
1/4	2,611.80	1/4	2,253.77	1/4	1,895.74	1/4	1,537.70	1/4	1,179.67	1/4	821.64	1/4	463.88	1/4	127.14	1/4		1/4	
1/2	2,604.34	1/2	2,246.31	1/2	1,888.28	1/2	1,530.24	1/2	1,172.21	1/2	814.18	1/2	456.48	1/2	120.48	1/2		1/2	
3/4	2,596.88	3/4	2,238.85	3/4	1,880.82	3/4	1,522.79	3/4	1,164.76	3/4	806.72	3/4	449.07	3/4	113.83	3/4		3/4	
1	2,589.42	1	2,231.39	1	1,873.36	1	1,515.33	1	1,157.30	1	799.26	1	441.67	1	107.17	1		1	
1/4	2,581.96	1/4	2,223.93	1/4	1,865.90	1/4	1,507.87	1/4	1,149.84	1/4	791.80	1/4	434.39	1/4	100.64	1/4		1/4	
1/2	2,574.50	1/2	2,216.47	1/2	1,858.44	1/2	1,500.41	1/2	1,142.38	1/2	784.34	1/2	427.11	1/2	94.10	1/2		1/2	
3/4	2,567.05	3/4	2,209.02	3/4	1,850.98	3/4	1,492.95	3/4	1,134.92	3/4	776.89	3/4	419.83	3/4	87.57	3/4		3/4	
2	2,559.59	2	2,201.56	2	1,843.52	2	1,485.49	2	1,127.46	2	769.43	2	412.55	2	81.04	2		2	
1/4	2,552.13	1/4	2,194.10	1/4	1,836.06	1/4	1,478.03	1/4	1,120.00	1/4	761.97	1/4	405.27	1/4	74.50	1/4		1/4	
1/2	2,544.67	1/2	2,186.64	1/2	1,828.60	1/2	1,470.57	1/2	1,112.54	1/2	754.51	1/2	397.99	1/2	67.97	1/2		1/2	
3/4	2,537.21	3/4	2,179.18	3/4	1,821.15	3/4	1,463.12	3/4	1,105.08	3/4	747.05	3/4	390.71	3/4	61.43	3/4		3/4	
3	2,529.75	3	2,171.72	3	1,813.69	3	1,455.66	3	1,097.62	3	739.59	3	383.43	3	54.90	3		3	
1/4	2,522.29	1/4	2,164.26	1/4	1,806.23	1/4	1,448.20	1/4	1,090.16	1/4	732.13	1/4	376.27	1/4	49.22	1/4		1/4	
1/2	2,514.83	1/2	2,156.80	1/2	1,798.77	1/2	1,440.74	1/2	1,082.70	1/2	724.67	1/2	369.12	1/2	43.55	1/2		1/2	
3/4	2,507.38	3/4	2,149.34	3/4	1,791.31	3/4	1,433.28	3/4	1,075.25	3/4	717.22	3/4	361.96	3/4	37.87	3/4		3/4	
4	2,499.92	4	2,141.88	4	1,783.85	4	1,425.82	4	1,067.79	4	709.76	4	354.81	4	32.20	4		4	
1/4	2,492.46	1/4	2,134.42	1/4	1,776.39	1/4	1,418.36	1/4	1,060.33	1/4	702.30	1/4	347.65	1/4	27.99	1/4		1/4	
1/2	2,485.00	1/2	2,126.96	1/2	1,768.93	1/2	1,410.90	1/2	1,052.87	1/2	694.84	1/2	340.50	1/2	23.78	1/2		1/2	
3/4	2,477.54	3/4	2,119.51	3/4	1,761.48	3/4	1,403.44	3/4	1,045.41	3/4	687.38	3/4	333.34	3/4	19.57	3/4		3/4	
5	2,470.08	5	2,112.05	5	1,754.02	5	1,395.98	5	1,037.95	5	679.92	5	326.19	5	15.36	5		5	
1/4	2,462.62	1/4	2,104.59	1/4	1,746.56	1/4	1,388.52	1/4	1,030.49	1/4	672.46	1/4	319.16	1/4		1/4		1/4	
1/2	2,455.16	1/2	2,097.13	1/2	1,739.10	1/2	1,381.06	1/2	1,023.03	1/2	665.00	1/2	312.13	1/2		1/2		1/2	
3/4	2,447.70	3/4	2,089.67	3/4	1,731.64	3/4	1,373.61	3/4	1,015.58	3/4	657.54	3/4	305.10	3/4		3/4		3/4	
6	2,440.24	6	2,082.21	6	1,724.18	6	1,366.15	6	1,008.12	6	650.08	6	298.07	6		6		6	
1/4	2,432.78	1/4	2,074.75	1/4	1,716.72	1/4	1,358.69	1/4	1,000.66	1/4	642.62	1/4	291.04	1/4		1/4		1/4	
1/2	2,425.32	1/2	2,067.29	1/2	1,709.26	1/2	1,351.23	1/2	993.20	1/2	635.16	1/2	284.00	1/2		1/2		1/2	
3/4	2,417.87	3/4	2,059.84	3/4	1,701.80	3/4	1,343.77	3/4	985.74	3/4	627.71	3/4	276.97	3/4		3/4		3/4	
7	2,410.41	7	2,052.38	7	1,694.34	7	1,336.31	7	978.28	7	620.25	7	269.94	7		7		7	
1/4	2,402.95	1/4	2,044.92	1/4	1,686.88	1/4	1,328.85	1/4	970.82	1/4	612.79	1/4	263.03	1/4		1/4		1/4	
1/2	2,395.49	1/2	2,037.46	1/2	1,679.42	1/2	1,321.39	1/2	963.36	1/2	605.33	1/2	256.13	1/2		1/2		1/2	
3/4	2,388.03	3/4	2,030.00	3/4	1,671.97	3/4	1,313.94	3/4	955.90	3/4	597.87	3/4	249.22	3/4		3/4		3/4	
8	2,380.57	8	2,022.54	8	1,664.51	8	1,306.48	8	948.44	8	590.41	8	242.32	8		8		8	
1/4	2,373.11	1/4	2,015.08	1/4	1,657.05	1/4	1,299.02	1/4	940.98	1/4	582.95	1/4	235.41	1/4		1/4		1/4	
1/2	2,365.65	1/2	2,007.62	1/2	1,649.59	1/2	1,291.56	1/2	933.52	1/2	575.49	1/2	228.50	1/2		1/2		1/2	
3/4	2,358.20	3/4	2,000.16	3/4	1,642.13	3/4	1,284.10	3/4	926.07	3/4	568.04	3/4	221.60	3/4		3/4		3/4	
9	2,350.74	9	1,992.70	9	1,634.67	9	1,276.64	9	918.61	9	560.58	9	214.69	9		9		9	
1/4	2,343.28	1/4	1,985.24	1/4	1,627.21	1/4	1,269.18	1/4	911.15	1/4	553.12	1/4	207.91	1/4		1/4		1/4	
1/2	2,335.82	1/2	1,977.78	1/2	1,619.75	1/2	1,261.72	1/2	903.69	1/2	545.66	1/2	201.12	1/2		1/2		1/2	
3/4	2,328.36	3/4	1,970.33	3/4	1,612.30	3/4	1,254.26	3/4	896.23	3/4	538.20	3/4	194.34	3/4		3/4		3/4	
10	2,320.90	10	1,962.87	10	1,604.84	10	1,246.80	10	888.77	10	530.74	10	187.56	10		10		10	
1/4	2,313.44	1/4	1,955.41	1/4	1,597.38	1/4	1,239.34	1/4	881.31	1/4	523.28	1/4	180.78	1/4		1/4		1/4	
1/2	2,305.98	1/2	1,947.95	1/2	1,589.92	1/2	1,231.88	1/2	873.85	1/2	515.82	1/2	173.99	1/2		1/2		1/2	
3/4	2,298.52	3/4	1,940.49	3/4	1,582.46	3/4	1,224.43	3/4	866.40	3/4	508.36	3/4	167.21	3/4		3/4		3/4	
11	2,291.06	11	1,933.03	11	1,575.00	11	1,216.97	11	858.94	11	500.90	11	160.43	11		11		11	
1/4	2,283.60	1/4	1,925.57	1/4	1,567.54	1/4	1,209.51	1/4	851.48	1/4	493.50	1/4	153.77	1/4		1/4		1/4	
1/2	2,276.14	1/2	1,918.11	1/2	1,560.08	1/2	1,202.05	1/2	844.02	1/2	486.09	1/2	147.11	1/2		1/2		1/2	
3/4	2,268.69	3/4	1,910.66	3/4	1,552.62	3/4	1,194.59	3/4	836.56	3/4	478.69	3/4	140.46	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/11/2011 INSP.  
RECALCULATED: 07/29/2021 PMA  
NAME CHANGE: 07/29/2021 PMA

CANCELS AND SUPERCEDES  
ALL PRIOR TO 07/2021

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







# BARGE "KIRBY 29159"

1 STBD

ULLAGE TABLE  
HERMETIC

GAUGE HEIGHT 17'-05"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMI 30022"

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	2,619.26	0	2,261.23	0	1,903.20	0	1,545.16	0	1,187.13	0	829.10	0	471.29	0	133.80	0		0	
1/4	2,611.80	1/4	2,253.77	1/4	1,895.74	1/4	1,537.70	1/4	1,179.67	1/4	821.64	1/4	463.88	1/4	127.14	1/4		1/4	
1/2	2,604.34	1/2	2,246.31	1/2	1,888.28	1/2	1,530.24	1/2	1,172.21	1/2	814.18	1/2	456.48	1/2	120.48	1/2		1/2	
3/4	2,596.88	3/4	2,238.85	3/4	1,880.82	3/4	1,522.79	3/4	1,164.76	3/4	806.72	3/4	449.07	3/4	113.83	3/4		3/4	
1	2,589.42	1	2,231.39	1	1,873.36	1	1,515.33	1	1,157.30	1	799.26	1	441.67	1	107.17	1		1	
1/4	2,581.96	1/4	2,223.93	1/4	1,865.90	1/4	1,507.87	1/4	1,149.84	1/4	791.80	1/4	434.39	1/4	100.64	1/4		1/4	
1/2	2,574.50	1/2	2,216.47	1/2	1,858.44	1/2	1,500.41	1/2	1,142.38	1/2	784.34	1/2	427.11	1/2	94.10	1/2		1/2	
3/4	2,567.05	3/4	2,209.02	3/4	1,850.98	3/4	1,492.95	3/4	1,134.92	3/4	776.89	3/4	419.83	3/4	87.57	3/4		3/4	
2	2,559.59	2	2,201.56	2	1,843.52	2	1,485.49	2	1,127.46	2	769.43	2	412.55	2	81.04	2		2	
1/4	2,552.13	1/4	2,194.10	1/4	1,836.06	1/4	1,478.03	1/4	1,120.00	1/4	761.97	1/4	405.27	1/4	74.50	1/4		1/4	
1/2	2,544.67	1/2	2,186.64	1/2	1,828.60	1/2	1,470.57	1/2	1,112.54	1/2	754.51	1/2	397.99	1/2	67.97	1/2		1/2	
3/4	2,537.21	3/4	2,179.18	3/4	1,821.15	3/4	1,463.12	3/4	1,105.08	3/4	747.05	3/4	390.71	3/4	61.43	3/4		3/4	
3	2,529.75	3	2,171.72	3	1,813.69	3	1,455.66	3	1,097.62	3	739.59	3	383.43	3	54.90	3		3	
1/4	2,522.29	1/4	2,164.26	1/4	1,806.23	1/4	1,448.20	1/4	1,090.16	1/4	732.13	1/4	376.27	1/4	49.22	1/4		1/4	
1/2	2,514.83	1/2	2,156.80	1/2	1,798.77	1/2	1,440.74	1/2	1,082.70	1/2	724.67	1/2	369.12	1/2	43.55	1/2		1/2	
3/4	2,507.38	3/4	2,149.34	3/4	1,791.31	3/4	1,433.28	3/4	1,075.25	3/4	717.22	3/4	361.96	3/4	37.87	3/4		3/4	
4	2,499.92	4	2,141.88	4	1,783.85	4	1,425.82	4	1,067.79	4	709.76	4	354.81	4	32.20	4		4	
1/4	2,492.46	1/4	2,134.42	1/4	1,776.39	1/4	1,418.36	1/4	1,060.33	1/4	702.30	1/4	347.65	1/4	27.99	1/4		1/4	
1/2	2,485.00	1/2	2,126.96	1/2	1,768.93	1/2	1,410.90	1/2	1,052.87	1/2	694.84	1/2	340.50	1/2	23.78	1/2		1/2	
3/4	2,477.54	3/4	2,119.51	3/4	1,761.48	3/4	1,403.44	3/4	1,045.41	3/4	687.38	3/4	333.34	3/4	19.57	3/4		3/4	
5	2,470.08	5	2,112.05	5	1,754.02	5	1,395.98	5	1,037.95	5	679.92	5	326.19	5	15.36	5		5	
1/4	2,462.62	1/4	2,104.59	1/4	1,746.56	1/4	1,388.52	1/4	1,030.49	1/4	672.46	1/4	319.16	1/4		1/4		1/4	
1/2	2,455.16	1/2	2,097.13	1/2	1,739.10	1/2	1,381.06	1/2	1,023.03	1/2	665.00	1/2	312.13	1/2		1/2		1/2	
3/4	2,447.70	3/4	2,089.67	3/4	1,731.64	3/4	1,373.61	3/4	1,015.58	3/4	657.54	3/4	305.10	3/4		3/4		3/4	
6	2,440.24	6	2,082.21	6	1,724.18	6	1,366.15	6	1,008.12	6	650.08	6	298.07	6		6		6	
1/4	2,432.78	1/4	2,074.75	1/4	1,716.72	1/4	1,358.69	1/4	1,000.66	1/4	642.62	1/4	291.04	1/4		1/4		1/4	
1/2	2,425.32	1/2	2,067.29	1/2	1,709.26	1/2	1,351.23	1/2	993.20	1/2	635.16	1/2	284.00	1/2		1/2		1/2	
3/4	2,417.87	3/4	2,059.84	3/4	1,701.80	3/4	1,343.77	3/4	985.74	3/4	627.71	3/4	276.97	3/4		3/4		3/4	
7	2,410.41	7	2,052.38	7	1,694.34	7	1,336.31	7	978.28	7	620.25	7	269.94	7		7		7	
1/4	2,402.95	1/4	2,044.92	1/4	1,686.88	1/4	1,328.85	1/4	970.82	1/4	612.79	1/4	263.03	1/4		1/4		1/4	
1/2	2,395.49	1/2	2,037.46	1/2	1,679.42	1/2	1,321.39	1/2	963.36	1/2	605.33	1/2	256.13	1/2		1/2		1/2	
3/4	2,388.03	3/4	2,030.00	3/4	1,671.97	3/4	1,313.94	3/4	955.90	3/4	597.87	3/4	249.22	3/4		3/4		3/4	
8	2,380.57	8	2,022.54	8	1,664.51	8	1,306.48	8	948.44	8	590.41	8	242.32	8		8		8	
1/4	2,373.11	1/4	2,015.08	1/4	1,657.05	1/4	1,299.02	1/4	940.98	1/4	582.95	1/4	235.41	1/4		1/4		1/4	
1/2	2,365.65	1/2	2,007.62	1/2	1,649.59	1/2	1,291.56	1/2	933.52	1/2	575.49	1/2	228.50	1/2		1/2		1/2	
3/4	2,358.20	3/4	2,000.16	3/4	1,642.13	3/4	1,284.10	3/4	926.07	3/4	568.04	3/4	221.60	3/4		3/4		3/4	
9	2,350.74	9	1,992.70	9	1,634.67	9	1,276.64	9	918.61	9	560.58	9	214.69	9		9		9	
1/4	2,343.28	1/4	1,985.24	1/4	1,627.21	1/4	1,269.18	1/4	911.15	1/4	553.12	1/4	207.91	1/4		1/4		1/4	
1/2	2,335.82	1/2	1,977.78	1/2	1,619.75	1/2	1,261.72	1/2	903.69	1/2	545.66	1/2	201.12	1/2		1/2		1/2	
3/4	2,328.36	3/4	1,970.33	3/4	1,612.30	3/4	1,254.26	3/4	896.23	3/4	538.20	3/4	194.34	3/4		3/4		3/4	
10	2,320.90	10	1,962.87	10	1,604.84	10	1,246.80	10	888.77	10	530.74	10	187.56	10		10		10	
1/4	2,313.44	1/4	1,955.41	1/4	1,597.38	1/4	1,239.34	1/4	881.31	1/4	523.28	1/4	180.78	1/4		1/4		1/4	
1/2	2,305.98	1/2	1,947.95	1/2	1,589.92	1/2	1,231.88	1/2	873.85	1/2	515.82	1/2	173.99	1/2		1/2		1/2	
3/4	2,298.52	3/4	1,940.49	3/4	1,582.46	3/4	1,224.43	3/4	866.40	3/4	508.36	3/4	167.21	3/4		3/4		3/4	
11	2,291.06	11	1,933.03	11	1,575.00	11	1,216.97	11	858.94	11	500.90	11	160.43	11		11		11	
1/4	2,283.60	1/4	1,925.57	1/4	1,567.54	1/4	1,209.51	1/4	851.48	1/4	493.50	1/4	153.77	1/4		1/4		1/4	
1/2	2,276.14	1/2	1,918.11	1/2	1,560.08	1/2	1,202.05	1/2	844.02	1/2	486.09	1/2	147.11	1/2		1/2		1/2	
3/4	2,268.69	3/4	1,910.66	3/4	1,552.62	3/4	1,194.59	3/4	836.56	3/4	478.69	3/4	140.46	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/11/2011 INSP.  
RECALCULATED: 07/29/2021 PMA  
NAME CHANGE: 07/29/2021 PMA

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

CANCELS AND SUPERCEDES  
ALL PRIOR TO 07/2021



# BARGE "KIRBY 29159"

## 2 PORT ULLAGE TABLE

### HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMI 30022"

GAUGE HEIGHT 17'-04 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	5,136.59	0	4,808.27	0	4,448.80	0	4,089.32	0	3,729.85	0	3,370.38	0	3,010.91
1/4		1/4		1/4		1/4	5,133.47	1/4	4,800.78	1/4	4,441.31	1/4	4,081.83	1/4	3,722.36	1/4	3,362.89	1/4	3,003.42
1/2		1/2		1/2		1/2	5,130.34	1/2	4,793.29	1/2	4,433.82	1/2	4,074.34	1/2	3,714.87	1/2	3,355.40	1/2	2,995.93
3/4		3/4		3/4		3/4	5,125.97	3/4	4,785.80	3/4	4,426.33	3/4	4,066.85	3/4	3,707.38	3/4	3,347.91	3/4	2,988.44
1		1		1		1	5,121.60	1	4,778.31	1	4,418.84	1	4,059.37	1	3,699.90	1	3,340.42	1	2,980.95
1/4		1/4		1/4		1/4	5,117.23	1/4	4,770.82	1/4	4,411.35	1/4	4,051.88	1/4	3,692.41	1/4	3,332.93	1/4	2,973.46
1/2		1/2		1/2		1/2	5,112.86	1/2	4,763.33	1/2	4,403.86	1/2	4,044.39	1/2	3,684.92	1/2	3,325.44	1/2	2,965.97
3/4		3/4		3/4		3/4	5,107.24	3/4	4,755.84	3/4	4,396.37	3/4	4,036.90	3/4	3,677.43	3/4	3,317.95	3/4	2,958.48
2		2		2		2	5,101.62	2	4,748.36	2	4,388.88	2	4,029.41	2	3,669.94	2	3,310.47	2	2,951.00
1/4		1/4		1/4		1/4	5,095.99	1/4	4,740.87	1/4	4,381.39	1/4	4,021.92	1/4	3,662.45	1/4	3,302.98	1/4	2,943.51
1/2		1/2		1/2		1/2	5,090.37	1/2	4,733.38	1/2	4,373.90	1/2	4,014.43	1/2	3,654.96	1/2	3,295.49	1/2	2,936.02
3/4		3/4		3/4		3/4	5,083.50	3/4	4,725.89	3/4	4,366.41	3/4	4,006.94	3/4	3,647.47	3/4	3,288.00	3/4	2,928.53
3		3		3		3	5,076.63	3	4,718.40	3	4,358.93	3	3,999.46	3	3,639.98	3	3,280.51	3	2,921.04
1/4		1/4		1/4		1/4	5,069.76	1/4	4,710.91	1/4	4,351.44	1/4	3,991.97	1/4	3,632.49	1/4	3,273.02	1/4	2,913.55
1/2		1/2		1/2		1/2	5,062.89	1/2	4,703.42	1/2	4,343.95	1/2	3,984.48	1/2	3,625.00	1/2	3,265.53	1/2	2,906.06
3/4		3/4		3/4		3/4	5,055.40	3/4	4,695.93	3/4	4,336.46	3/4	3,976.99	3/4	3,617.51	3/4	3,258.04	3/4	2,898.57
4		4		4		4	5,047.92	4	4,688.44	4	4,328.97	4	3,969.50	4	3,610.03	4	3,250.56	4	2,891.08
1/4		1/4		1/4		1/4	5,040.43	1/4	4,680.95	1/4	4,321.48	1/4	3,962.01	1/4	3,602.54	1/4	3,243.07	1/4	2,883.59
1/2		1/2		1/2		1/2	5,032.94	1/2	4,673.46	1/2	4,313.99	1/2	3,954.52	1/2	3,595.05	1/2	3,235.58	1/2	2,876.10
3/4		3/4		3/4		3/4	5,025.45	3/4	4,665.97	3/4	4,306.50	3/4	3,947.03	3/4	3,587.56	3/4	3,228.09	3/4	2,868.61
5		5		5		5	5,017.96	5	4,658.49	5	4,299.02	5	3,939.54	5	3,580.07	5	3,220.60	5	2,861.13
1/4		1/4		1/4		1/4	5,010.47	1/4	4,651.00	1/4	4,291.53	1/4	3,932.05	1/4	3,572.58	1/4	3,213.11	1/4	2,853.64
1/2		1/2		1/2		1/2	5,002.98	1/2	4,643.51	1/2	4,284.04	1/2	3,924.56	1/2	3,565.09	1/2	3,205.62	1/2	2,846.15
3/4		3/4		3/4		3/4	4,995.49	3/4	4,636.02	3/4	4,276.55	3/4	3,917.07	3/4	3,557.60	3/4	3,198.13	3/4	2,838.66
6		6		6		6	4,988.00	6	4,628.53	6	4,269.06	6	3,909.59	6	3,550.12	6	3,190.64	6	2,831.17
1/4		1/4		1/4		1/4	4,980.51	1/4	4,621.04	1/4	4,261.57	1/4	3,902.10	1/4	3,542.63	1/4	3,183.15	1/4	2,823.68
1/2		1/2		1/2		1/2	4,973.02	1/2	4,613.55	1/2	4,254.08	1/2	3,894.61	1/2	3,535.14	1/2	3,175.66	1/2	2,816.19
3/4		3/4		3/4		3/4	4,965.53	3/4	4,606.06	3/4	4,246.59	3/4	3,887.12	3/4	3,527.65	3/4	3,168.17	3/4	2,808.70
7		7		7		7	4,958.05	7	4,598.58	7	4,239.10	7	3,879.63	7	3,520.16	7	3,160.69	7	2,801.22
1/4		1/4		1/4		1/4	4,950.56	1/4	4,591.09	1/4	4,231.61	1/4	3,872.14	1/4	3,512.67	1/4	3,153.20	1/4	2,793.73
1/2		1/2		1/2		1/2	4,943.07	1/2	4,583.60	1/2	4,224.12	1/2	3,864.65	1/2	3,505.18	1/2	3,145.71	1/2	2,786.24
3/4		3/4		3/4		3/4	4,935.58	3/4	4,576.11	3/4	4,216.63	3/4	3,857.16	3/4	3,497.69	3/4	3,138.22	3/4	2,778.75
8		8		8		8	4,928.09	8	4,568.62	8	4,209.15	8	3,849.68	8	3,490.20	8	3,130.73	8	2,771.26
1/4		1/4		1/4		1/4	4,920.60	1/4	4,561.13	1/4	4,201.66	1/4	3,842.19	1/4	3,482.71	1/4	3,123.24	1/4	2,763.77
1/2		1/2		1/2		1/2	4,913.11	1/2	4,553.64	1/2	4,194.17	1/2	3,834.70	1/2	3,475.22	1/2	3,115.75	1/2	2,756.28
3/4		3/4		3/4		3/4	4,905.62	3/4	4,546.15	3/4	4,186.68	3/4	3,827.21	3/4	3,467.73	3/4	3,108.26	3/4	2,748.79
9		9		9		9	4,898.14	9	4,538.66	9	4,179.19	9	3,819.72	9	3,460.25	9	3,100.78	9	2,741.30
1/4		1/4		1/4		1/4	4,890.65	1/4	4,531.17	1/4	4,171.70	1/4	3,812.23	1/4	3,452.76	1/4	3,093.29	1/4	2,733.81
1/2		1/2		1/2	5,152.83	1/2	4,883.16	1/2	4,523.68	1/2	4,164.21	1/2	3,804.74	1/2	3,445.27	1/2	3,085.80	1/2	2,726.32
3/4		3/4		3/4	5,152.21	3/4	4,875.67	3/4	4,516.19	3/4	4,156.72	3/4	3,797.25	3/4	3,437.78	3/4	3,078.31	3/4	2,718.83
10		10		10	5,151.58	10	4,868.18	10	4,508.71	10	4,149.24	10	3,789.76	10	3,430.29	10	3,070.82	10	2,711.35
1/4		1/4		1/4	5,150.96	1/4	4,860.69	1/4	4,501.22	1/4	4,141.75	1/4	3,782.27	1/4	3,422.80	1/4	3,063.33	1/4	2,703.86
1/2		1/2		1/2	5,150.33	1/2	4,853.20	1/2	4,493.73	1/2	4,134.26	1/2	3,774.78	1/2	3,415.31	1/2	3,055.84	1/2	2,696.37
3/4		3/4		3/4	5,148.46	3/4	4,845.71	3/4	4,486.24	3/4	4,126.77	3/4	3,767.29	3/4	3,407.82	3/4	3,048.35	3/4	2,688.88
11		11		11	5,146.59	11	4,838.22	11	4,478.75	11	4,119.28	11	3,759.81	11	3,400.34	11	3,040.86	11	2,681.39
1/4		1/4		1/4	5,144.71	1/4	4,830.73	1/4	4,471.26	1/4	4,111.79	1/4	3,752.32	1/4	3,392.85	1/4	3,033.37	1/4	2,673.90
1/2		1/2		1/2	5,142.84	1/2	4,823.24	1/2	4,463.77	1/2	4,104.30	1/2	3,744.83	1/2	3,385.36	1/2	3,025.88	1/2	2,666.41
3/4		3/4		3/4	5,139.72	3/4	4,815.75	3/4	4,456.28	3/4	4,096.81	3/4	3,737.34	3/4	3,377.87	3/4	3,018.39	3/4	2,658.92

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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" CLOSED GAUGING DEVICE.  
GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "KIRBY 29159"

## 2 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMI 30022"

GAUGE HEIGHT 17'-04 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	2,651.44	0	2,291.96	0	1,932.49	0	1,573.02	0	1,213.55	0	854.08	0	494.60	0	135.13	0		0	
1/4	2,643.95	1/4	2,284.47	1/4	1,925.00	1/4	1,565.53	1/4	1,206.06	1/4	846.59	1/4	487.11	1/4	127.64	1/4		1/4	
1/2	2,636.46	1/2	2,276.98	1/2	1,917.51	1/2	1,558.04	1/2	1,198.57	1/2	839.10	1/2	479.62	1/2	120.15	1/2		1/2	
3/4	2,628.97	3/4	2,269.49	3/4	1,910.02	3/4	1,550.55	3/4	1,191.08	3/4	831.61	3/4	472.13	3/4	112.66	3/4		3/4	
1	2,621.48	1	2,262.01	1	1,902.54	1	1,543.06	1	1,183.59	1	824.12	1	464.65	1	105.18	1		1	
1/4	2,613.99	1/4	2,254.52	1/4	1,895.05	1/4	1,535.57	1/4	1,176.10	1/4	816.63	1/4	457.16	1/4	97.69	1/4		1/4	
1/2	2,606.50	1/2	2,247.03	1/2	1,887.56	1/2	1,528.08	1/2	1,168.61	1/2	809.14	1/2	449.67	1/2	90.20	1/2		1/2	
3/4	2,599.01	3/4	2,239.54	3/4	1,880.07	3/4	1,520.59	3/4	1,161.12	3/4	801.65	3/4	442.18	3/4	82.71	3/4		3/4	
2	2,591.52	2	2,232.05	2	1,872.58	2	1,513.11	2	1,153.64	2	794.16	2	434.69	2	75.22	2		2	
1/4	2,584.03	1/4	2,224.56	1/4	1,865.09	1/4	1,505.62	1/4	1,146.15	1/4	786.67	1/4	427.20	1/4	67.73	1/4		1/4	
1/2	2,576.54	1/2	2,217.07	1/2	1,857.60	1/2	1,498.13	1/2	1,138.66	1/2	779.18	1/2	419.71	1/2	60.24	1/2		1/2	
3/4	2,569.05	3/4	2,209.58	3/4	1,850.11	3/4	1,490.64	3/4	1,131.17	3/4	771.69	3/4	412.22	3/4	53.68	3/4		3/4	
3	2,561.57	3	2,202.10	3	1,842.62	3	1,483.15	3	1,123.68	3	764.21	3	404.74	3	47.13	3		3	
1/4	2,554.08	1/4	2,194.61	1/4	1,835.13	1/4	1,475.66	1/4	1,116.19	1/4	756.72	1/4	397.25	1/4	40.57	1/4		1/4	
1/2	2,546.59	1/2	2,187.12	1/2	1,827.64	1/2	1,468.17	1/2	1,108.70	1/2	749.23	1/2	389.76	1/2	34.01	1/2		1/2	
3/4	2,539.10	3/4	2,179.63	3/4	1,820.15	3/4	1,460.68	3/4	1,101.21	3/4	741.74	3/4	382.27	3/4	29.33	3/4		3/4	
4	2,531.61	4	2,172.14	4	1,812.67	4	1,453.20	4	1,093.72	4	734.25	4	374.78	4	24.64	4		4	
1/4	2,524.12	1/4	2,164.65	1/4	1,805.18	1/4	1,445.71	1/4	1,086.23	1/4	726.76	1/4	367.29	1/4	19.96	1/4		1/4	
1/2	2,516.63	1/2	2,157.16	1/2	1,797.69	1/2	1,438.22	1/2	1,078.74	1/2	719.27	1/2	359.80	1/2	15.27	1/2		1/2	
3/4	2,509.14	3/4	2,149.67	3/4	1,790.20	3/4	1,430.73	3/4	1,071.25	3/4	711.78	3/4	352.31	3/4		3/4		3/4	
5	2,501.66	5	2,142.18	5	1,782.71	5	1,423.24	5	1,063.77	5	704.30	5	344.82	5		5		5	
1/4	2,494.17	1/4	2,134.69	1/4	1,775.22	1/4	1,415.75	1/4	1,056.28	1/4	696.81	1/4	337.33	1/4		1/4		1/4	
1/2	2,486.68	1/2	2,127.20	1/2	1,767.73	1/2	1,408.26	1/2	1,048.79	1/2	689.32	1/2	329.84	1/2		1/2		1/2	
3/4	2,479.19	3/4	2,119.71	3/4	1,760.24	3/4	1,400.77	3/4	1,041.30	3/4	681.83	3/4	322.35	3/4		3/4		3/4	
6	2,471.70	6	2,112.23	6	1,752.76	6	1,393.28	6	1,033.81	6	674.34	6	314.87	6		6		6	
1/4	2,464.21	1/4	2,104.74	1/4	1,745.27	1/4	1,385.79	1/4	1,026.32	1/4	666.85	1/4	307.38	1/4		1/4		1/4	
1/2	2,456.72	1/2	2,097.25	1/2	1,737.78	1/2	1,378.30	1/2	1,018.83	1/2	659.36	1/2	299.89	1/2		1/2		1/2	
3/4	2,449.23	3/4	2,089.76	3/4	1,730.29	3/4	1,370.81	3/4	1,011.34	3/4	651.87	3/4	292.40	3/4		3/4		3/4	
7	2,441.74	7	2,082.27	7	1,722.80	7	1,363.33	7	1,003.86	7	644.38	7	284.91	7		7		7	
1/4	2,434.25	1/4	2,074.78	1/4	1,715.31	1/4	1,355.84	1/4	996.37	1/4	636.89	1/4	277.42	1/4		1/4		1/4	
1/2	2,426.76	1/2	2,067.29	1/2	1,707.82	1/2	1,348.35	1/2	988.88	1/2	629.40	1/2	269.93	1/2		1/2		1/2	
3/4	2,419.27	3/4	2,059.80	3/4	1,700.33	3/4	1,340.86	3/4	981.39	3/4	621.91	3/4	262.44	3/4		3/4		3/4	
8	2,411.79	8	2,052.32	8	1,692.84	8	1,333.37	8	973.90	8	614.43	8	254.96	8		8		8	
1/4	2,404.30	1/4	2,044.83	1/4	1,685.35	1/4	1,325.88	1/4	966.41	1/4	606.94	1/4	247.47	1/4		1/4		1/4	
1/2	2,396.81	1/2	2,037.34	1/2	1,677.86	1/2	1,318.39	1/2	958.92	1/2	599.45	1/2	239.98	1/2		1/2		1/2	
3/4	2,389.32	3/4	2,029.85	3/4	1,670.37	3/4	1,310.90	3/4	951.43	3/4	591.96	3/4	232.49	3/4		3/4		3/4	
9	2,381.83	9	2,022.36	9	1,662.89	9	1,303.42	9	943.94	9	584.47	9	225.00	9		9		9	
1/4	2,374.34	1/4	2,014.87	1/4	1,655.40	1/4	1,295.93	1/4	936.45	1/4	576.98	1/4	217.51	1/4		1/4		1/4	
1/2	2,366.85	1/2	2,007.38	1/2	1,647.91	1/2	1,288.44	1/2	928.96	1/2	569.49	1/2	210.02	1/2		1/2		1/2	
3/4	2,359.36	3/4	1,999.89	3/4	1,640.42	3/4	1,280.95	3/4	921.47	3/4	562.00	3/4	202.53	3/4		3/4		3/4	
10	2,351.88	10	1,992.40	10	1,632.93	10	1,273.46	10	913.99	10	554.52	10	195.04	10		10		10	
1/4	2,344.39	1/4	1,984.91	1/4	1,625.44	1/4	1,265.97	1/4	906.50	1/4	547.03	1/4	187.55	1/4		1/4		1/4	
1/2	2,336.90	1/2	1,977.42	1/2	1,617.95	1/2	1,258.48	1/2	899.01	1/2	539.54	1/2	180.06	1/2		1/2		1/2	
3/4	2,329.41	3/4	1,969.93	3/4	1,610.46	3/4	1,250.99	3/4	891.52	3/4	532.05	3/4	172.57	3/4		3/4		3/4	
11	2,321.92	11	1,962.45	11	1,602.98	11	1,243.50	11	884.03	11	524.56	11	165.09	11		11		11	
1/4	2,314.43	1/4	1,954.96	1/4	1,595.49	1/4	1,236.01	1/4	876.54	1/4	517.07	1/4	157.60	1/4		1/4		1/4	
1/2	2,306.94	1/2	1,947.47	1/2	1,588.00	1/2	1,228.52	1/2	869.05	1/2	509.58	1/2	150.11	1/2		1/2		1/2	
3/4	2,299.45	3/4	1,939.98	3/4	1,580.51	3/4	1,221.03	3/4	861.56	3/4	502.09	3/4	142.62	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/11/2011 INSP.  
RECALCULATED: 07/29/2021 PMA  
NAME CHANGE: 07/29/2021 PMA

CANCELS AND SUPERCEDES  
ALL PRIOR TO 07/2021

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



# BARGE "KIRBY 29159"

## 2 STBD ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMI 30022"

GAUGE HEIGHT 17'-04 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		0	5,133.47	0	4,800.78	0	4,441.31	0	4,081.83	0	3,722.36	0	3,362.89	0	3,003.42
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,130.34	1/4	4,793.29	1/4	4,433.82	1/4	4,074.34	1/4	3,714.87	1/4	3,355.40	1/4	2,995.93
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,125.97	1/2	4,785.80	1/2	4,426.33	1/2	4,066.85	1/2	3,707.38	1/2	3,347.91	1/2	2,988.44
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,121.60	3/4	4,778.31	3/4	4,418.84	3/4	4,059.37	3/4	3,699.90	3/4	3,340.42	3/4	2,980.95
1	1	1	1	1	1	1	5,117.23	1	4,770.82	1	4,411.35	1	4,051.88	1	3,692.41	1	3,332.93	1	2,973.46
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,112.86	1/4	4,763.33	1/4	4,403.86	1/4	4,044.39	1/4	3,684.92	1/4	3,325.44	1/4	2,965.97
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,107.24	1/2	4,755.84	1/2	4,396.37	1/2	4,036.90	1/2	3,677.43	1/2	3,317.95	1/2	2,958.48
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,101.62	3/4	4,748.36	3/4	4,388.88	3/4	4,029.41	3/4	3,669.94	3/4	3,310.47	3/4	2,951.00
2	2	2	2	2	2	2	5,095.99	2	4,740.87	2	4,381.39	2	4,021.92	2	3,662.45	2	3,302.98	2	2,943.51
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,090.37	1/4	4,733.38	1/4	4,373.90	1/4	4,014.43	1/4	3,654.96	1/4	3,295.49	1/4	2,936.02
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,083.50	1/2	4,725.89	1/2	4,366.41	1/2	4,006.94	1/2	3,647.47	1/2	3,288.00	1/2	2,928.53
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,076.63	3/4	4,718.40	3/4	4,358.93	3/4	3,999.46	3/4	3,639.98	3/4	3,280.51	3/4	2,921.04
3	3	3	3	3	3	3	5,069.76	3	4,710.91	3	4,351.44	3	3,991.97	3	3,632.49	3	3,273.02	3	2,913.55
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,062.89	1/4	4,703.42	1/4	4,343.95	1/4	3,984.48	1/4	3,625.00	1/4	3,265.53	1/4	2,906.06
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,055.40	1/2	4,695.93	1/2	4,336.46	1/2	3,976.99	1/2	3,617.51	1/2	3,258.04	1/2	2,898.57
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,047.92	3/4	4,688.44	3/4	4,328.97	3/4	3,969.50	3/4	3,610.03	3/4	3,250.56	3/4	2,891.08
4	4	4	4	4	4	4	5,040.43	4	4,680.95	4	4,321.48	4	3,962.01	4	3,602.54	4	3,243.07	4	2,883.59
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,032.94	1/4	4,673.46	1/4	4,313.99	1/4	3,954.52	1/4	3,595.05	1/4	3,235.58	1/4	2,876.10
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,025.45	1/2	4,665.97	1/2	4,306.50	1/2	3,947.03	1/2	3,587.56	1/2	3,228.09	1/2	2,868.61
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,017.96	3/4	4,658.49	3/4	4,299.02	3/4	3,939.54	3/4	3,580.07	3/4	3,220.60	3/4	2,861.13
5	5	5	5	5	5	5	5,010.47	5	4,651.00	5	4,291.53	5	3,932.05	5	3,572.58	5	3,213.11	5	2,853.64
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,002.98	1/4	4,643.51	1/4	4,284.04	1/4	3,924.56	1/4	3,565.09	1/4	3,205.62	1/4	2,846.15
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,995.49	1/2	4,636.02	1/2	4,276.55	1/2	3,917.07	1/2	3,557.60	1/2	3,198.13	1/2	2,838.66
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,988.00	3/4	4,628.53	3/4	4,269.06	3/4	3,909.59	3/4	3,550.12	3/4	3,190.64	3/4	2,831.17
6	6	6	6	6	6	6	4,980.51	6	4,621.04	6	4,261.57	6	3,902.10	6	3,542.63	6	3,183.15	6	2,823.68
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,973.02	1/4	4,613.55	1/4	4,254.08	1/4	3,894.61	1/4	3,535.14	1/4	3,175.66	1/4	2,816.19
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,965.53	1/2	4,606.06	1/2	4,246.59	1/2	3,887.12	1/2	3,527.65	1/2	3,168.17	1/2	2,808.70
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,958.05	3/4	4,598.58	3/4	4,239.10	3/4	3,879.63	3/4	3,520.16	3/4	3,160.69	3/4	2,801.22
7	7	7	7	7	7	7	4,950.56	7	4,591.09	7	4,231.61	7	3,872.14	7	3,512.67	7	3,153.20	7	2,793.73
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,943.07	1/4	4,583.60	1/4	4,224.12	1/4	3,864.65	1/4	3,505.18	1/4	3,145.71	1/4	2,786.24
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,935.58	1/2	4,576.11	1/2	4,216.63	1/2	3,857.16	1/2	3,497.69	1/2	3,138.22	1/2	2,778.75
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,928.09	3/4	4,568.62	3/4	4,209.15	3/4	3,849.68	3/4	3,490.20	3/4	3,130.73	3/4	2,771.26
8	8	8	8	8	8	8	4,920.60	8	4,561.13	8	4,201.66	8	3,842.19	8	3,482.71	8	3,123.24	8	2,763.77
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,913.11	1/4	4,553.64	1/4	4,194.17	1/4	3,834.70	1/4	3,475.22	1/4	3,115.75	1/4	2,756.28
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,905.62	1/2	4,546.15	1/2	4,186.68	1/2	3,827.21	1/2	3,467.73	1/2	3,108.26	1/2	2,748.79
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,898.14	3/4	4,538.66	3/4	4,179.19	3/4	3,819.72	3/4	3,460.25	3/4	3,100.78	3/4	2,741.30
9	9	9	9	9	9	9	4,890.65	9	4,531.17	9	4,171.70	9	3,812.23	9	3,452.76	9	3,093.29	9	2,733.81
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,152.83	1/4	4,883.16	1/4	4,523.68	1/4	4,164.21	1/4	3,804.74	1/4	3,445.27	1/4	3,085.80
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,152.21	1/2	4,875.67	1/2	4,516.19	1/2	4,156.72	1/2	3,797.25	1/2	3,437.78	1/2	3,078.31
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,151.58	3/4	4,868.18	3/4	4,508.71	3/4	4,149.24	3/4	3,789.76	3/4	3,430.29	3/4	3,070.82
10	10	10	10	10	10	10	5,150.96	10	4,860.69	10	4,501.22	10	4,141.75	10	3,782.27	10	3,422.80	10	3,063.33
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,150.33	1/4	4,853.20	1/4	4,493.73	1/4	4,134.26	1/4	3,774.78	1/4	3,415.31	1/4	3,055.84
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,148.46	1/2	4,845.71	1/2	4,486.24	1/2	4,126.77	1/2	3,767.29	1/2	3,407.82	1/2	3,048.35
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,146.59	3/4	4,838.22	3/4	4,478.75	3/4	4,119.28	3/4	3,759.81	3/4	3,400.34	3/4	3,040.86
11	11	11	11	11	11	11	5,144.71	11	4,830.73	11	4,471.26	11	4,111.79	11	3,752.32	11	3,392.85	11	3,033.37
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,142.84	1/4	4,823.24	1/4	4,463.77	1/4	4,104.30	1/4	3,744.83	1/4	3,385.36	1/4	3,025.88
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,139.72	1/2	4,815.75	1/2	4,456.28	1/2	4,096.81	1/2	3,737.34	1/2	3,377.87	1/2	3,018.39
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,136.59	3/4	4,808.27	3/4	4,448.80	3/4	4,089.32	3/4	3,729.85	3/4	3,370.38	3/4	3,010.91

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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" CLOSED GAUGING DEVICE.

GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-03" FORWARD OF AFT BULKHEAD.

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

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





# BARGE "KIRBY 29159"

## 2 STBD

### ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMI 30022"

GAUGE HEIGHT 17'-04 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	2,643.95	0	2,284.47	0	1,925.00	0	1,565.53	0	1,206.06	0	846.59	0	487.11	0	127.64	0		0	
1/4	2,636.46	1/4	2,276.98	1/4	1,917.51	1/4	1,558.04	1/4	1,198.57	1/4	839.10	1/4	479.62	1/4	120.15	1/4		1/4	
1/2	2,628.97	1/2	2,269.49	1/2	1,910.02	1/2	1,550.55	1/2	1,191.08	1/2	831.61	1/2	472.13	1/2	112.66	1/2		1/2	
3/4	2,621.48	3/4	2,262.01	3/4	1,902.54	3/4	1,543.06	3/4	1,183.59	3/4	824.12	3/4	464.65	3/4	105.18	3/4		3/4	
1	2,613.99	1	2,254.52	1	1,895.05	1	1,535.57	1	1,176.10	1	816.63	1	457.16	1	97.69	1		1	
1/4	2,606.50	1/4	2,247.03	1/4	1,887.56	1/4	1,528.08	1/4	1,168.61	1/4	809.14	1/4	449.67	1/4	90.20	1/4		1/4	
1/2	2,599.01	1/2	2,239.54	1/2	1,880.07	1/2	1,520.59	1/2	1,161.12	1/2	801.65	1/2	442.18	1/2	82.71	1/2		1/2	
3/4	2,591.52	3/4	2,232.05	3/4	1,872.58	3/4	1,513.11	3/4	1,153.64	3/4	794.16	3/4	434.69	3/4	75.22	3/4		3/4	
2	2,584.03	2	2,224.56	2	1,865.09	2	1,505.62	2	1,146.15	2	786.67	2	427.20	2	67.73	2		2	
1/4	2,576.54	1/4	2,217.07	1/4	1,857.60	1/4	1,498.13	1/4	1,138.66	1/4	779.18	1/4	419.71	1/4	60.24	1/4		1/4	
1/2	2,569.05	1/2	2,209.58	1/2	1,850.11	1/2	1,490.64	1/2	1,131.17	1/2	771.69	1/2	412.22	1/2	53.68	1/2		1/2	
3/4	2,561.57	3/4	2,202.10	3/4	1,842.62	3/4	1,483.15	3/4	1,123.68	3/4	764.21	3/4	404.74	3/4	47.13	3/4		3/4	
3	2,554.08	3	2,194.61	3	1,835.13	3	1,475.66	3	1,116.19	3	756.72	3	397.25	3	40.57	3		3	
1/4	2,546.59	1/4	2,187.12	1/4	1,827.64	1/4	1,468.17	1/4	1,108.70	1/4	749.23	1/4	389.76	1/4	34.01	1/4		1/4	
1/2	2,539.10	1/2	2,179.63	1/2	1,820.15	1/2	1,460.68	1/2	1,101.21	1/2	741.74	1/2	382.27	1/2	29.33	1/2		1/2	
3/4	2,531.61	3/4	2,172.14	3/4	1,812.67	3/4	1,453.20	3/4	1,093.72	3/4	734.25	3/4	374.78	3/4	24.64	3/4		3/4	
4	2,524.12	4	2,164.65	4	1,805.18	4	1,445.71	4	1,086.23	4	726.76	4	367.29	4	19.96	4		4	
1/4	2,516.63	1/4	2,157.16	1/4	1,797.69	1/4	1,438.22	1/4	1,078.74	1/4	719.27	1/4	359.80	1/4	15.27	1/4		1/4	
1/2	2,509.14	1/2	2,149.67	1/2	1,790.20	1/2	1,430.73	1/2	1,071.25	1/2	711.78	1/2	352.31	1/2		1/2		1/2	
3/4	2,501.66	3/4	2,142.18	3/4	1,782.71	3/4	1,423.24	3/4	1,063.77	3/4	704.30	3/4	344.82	3/4		3/4		3/4	
5	2,494.17	5	2,134.69	5	1,775.22	5	1,415.75	5	1,056.28	5	696.81	5	337.33	5		5		5	
1/4	2,486.68	1/4	2,127.20	1/4	1,767.73	1/4	1,408.26	1/4	1,048.79	1/4	689.32	1/4	329.84	1/4		1/4		1/4	
1/2	2,479.19	1/2	2,119.71	1/2	1,760.24	1/2	1,400.77	1/2	1,041.30	1/2	681.83	1/2	322.35	1/2		1/2		1/2	
3/4	2,471.70	3/4	2,112.23	3/4	1,752.76	3/4	1,393.28	3/4	1,033.81	3/4	674.34	3/4	314.87	3/4		3/4		3/4	
6	2,464.21	6	2,104.74	6	1,745.27	6	1,385.79	6	1,026.32	6	666.85	6	307.38	6		6		6	
1/4	2,456.72	1/4	2,097.25	1/4	1,737.78	1/4	1,378.30	1/4	1,018.83	1/4	659.36	1/4	299.89	1/4		1/4		1/4	
1/2	2,449.23	1/2	2,089.76	1/2	1,730.29	1/2	1,370.81	1/2	1,011.34	1/2	651.87	1/2	292.40	1/2		1/2		1/2	
3/4	2,441.74	3/4	2,082.27	3/4	1,722.80	3/4	1,363.33	3/4	1,003.86	3/4	644.38	3/4	284.91	3/4		3/4		3/4	
7	2,434.25	7	2,074.78	7	1,715.31	7	1,355.84	7	996.37	7	636.89	7	277.42	7		7		7	
1/4	2,426.76	1/4	2,067.29	1/4	1,707.82	1/4	1,348.35	1/4	988.88	1/4	629.40	1/4	269.93	1/4		1/4		1/4	
1/2	2,419.27	1/2	2,059.80	1/2	1,700.33	1/2	1,340.86	1/2	981.39	1/2	621.91	1/2	262.44	1/2		1/2		1/2	
3/4	2,411.79	3/4	2,052.32	3/4	1,692.84	3/4	1,333.37	3/4	973.90	3/4	614.43	3/4	254.96	3/4		3/4		3/4	
8	2,404.30	8	2,044.83	8	1,685.35	8	1,325.88	8	966.41	8	606.94	8	247.47	8		8		8	
1/4	2,396.81	1/4	2,037.34	1/4	1,677.86	1/4	1,318.39	1/4	958.92	1/4	599.45	1/4	239.98	1/4		1/4		1/4	
1/2	2,389.32	1/2	2,029.85	1/2	1,670.37	1/2	1,310.90	1/2	951.43	1/2	591.96	1/2	232.49	1/2		1/2		1/2	
3/4	2,381.83	3/4	2,022.36	3/4	1,662.89	3/4	1,303.42	3/4	943.94	3/4	584.47	3/4	225.00	3/4		3/4		3/4	
9	2,374.34	9	2,014.87	9	1,655.40	9	1,295.93	9	936.45	9	576.98	9	217.51	9		9		9	
1/4	2,366.85	1/4	2,007.38	1/4	1,647.91	1/4	1,288.44	1/4	928.96	1/4	569.49	1/4	210.02	1/4		1/4		1/4	
1/2	2,359.36	1/2	1,999.89	1/2	1,640.42	1/2	1,280.95	1/2	921.47	1/2	562.00	1/2	202.53	1/2		1/2		1/2	
3/4	2,351.88	3/4	1,992.40	3/4	1,632.93	3/4	1,273.46	3/4	913.99	3/4	554.52	3/4	195.04	3/4		3/4		3/4	
10	2,344.39	10	1,984.91	10	1,625.44	10	1,265.97	10	906.50	10	547.03	10	187.55	10		10		10	
1/4	2,336.90	1/4	1,977.42	1/4	1,617.95	1/4	1,258.48	1/4	899.01	1/4	539.54	1/4	180.06	1/4		1/4		1/4	
1/2	2,329.41	1/2	1,969.93	1/2	1,610.46	1/2	1,250.99	1/2	891.52	1/2	532.05	1/2	172.57	1/2		1/2		1/2	
3/4	2,321.92	3/4	1,962.45	3/4	1,602.98	3/4	1,243.50	3/4	884.03	3/4	524.56	3/4	165.09	3/4		3/4		3/4	
11	2,314.43	11	1,954.96	11	1,595.49	11	1,236.01	11	876.54	11	517.07	11	157.60	11		11		11	
1/4	2,306.94	1/4	1,947.47	1/4	1,588.00	1/4	1,228.52	1/4	869.05	1/4	509.58	1/4	150.11	1/4		1/4		1/4	
1/2	2,299.45	1/2	1,939.98	1/2	1,580.51	1/2	1,221.03	1/2	861.56	1/2	502.09	1/2	142.62	1/2		1/2		1/2	
3/4	2,291.96	3/4	1,932.49	3/4	1,573.02	3/4	1,213.55	3/4	854.08	3/4	494.60	3/4	135.13	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/11/2011 INSP.  
RECALCULATED: 07/29/2021 PMA  
NAME CHANGE: 07/29/2021 PMA

CANCELS AND SUPERCEDES  
ALL PRIOR TO 07/2021

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



# BARGE "KIRBY 29159"

## 3 PORT ULLAGE TABLE

### HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMI 30022"

GAUGE HEIGHT 17'-04 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		0	4,496.00	0	4,292.14	0	4,071.82	0	3,851.50	0	3,631.18	0	3,353.30	0	2,994.55
1/4		1/4		1/4		1/4	4,494.09	1/4	4,287.55	1/4	4,067.23	1/4	3,846.91	1/4	3,626.59	1/4	3,345.83	1/4	2,987.08
1/2		1/2		1/2		1/2	4,491.41	1/2	4,282.96	1/2	4,062.64	1/2	3,842.32	1/2	3,622.00	1/2	3,338.36	1/2	2,979.60
3/4		3/4		3/4		3/4	4,488.74	3/4	4,278.37	3/4	4,058.05	3/4	3,837.73	3/4	3,617.41	3/4	3,330.88	3/4	2,972.13
1		1		1		1	4,486.06	1	4,273.78	1	4,053.46	1	3,833.14	1	3,612.82	1	3,323.41	1	2,964.65
1/4		1/4		1/4		1/4	4,483.38	1/4	4,269.19	1/4	4,048.87	1/4	3,828.55	1/4	3,608.23	1/4	3,315.94	1/4	2,957.18
1/2		1/2		1/2		1/2	4,479.94	1/2	4,264.60	1/2	4,044.28	1/2	3,823.96	1/2	3,603.64	1/2	3,308.46	1/2	2,949.71
3/4		3/4		3/4		3/4	4,476.50	3/4	4,260.01	3/4	4,039.69	3/4	3,819.37	3/4	3,599.05	3/4	3,300.99	3/4	2,942.23
2		2		2		2	4,473.06	2	4,255.42	2	4,035.10	2	3,814.78	2	3,594.46	2	3,293.51	2	2,934.76
1/4		1/4		1/4		1/4	4,469.62	1/4	4,250.83	1/4	4,030.51	1/4	3,810.19	1/4	3,589.87	1/4	3,286.04	1/4	2,927.29
1/2		1/2		1/2		1/2	4,465.41	1/2	4,246.24	1/2	4,025.92	1/2	3,805.60	1/2	3,585.28	1/2	3,278.56	1/2	2,919.81
3/4		3/4		3/4		3/4	4,461.21	3/4	4,241.65	3/4	4,021.33	3/4	3,801.01	3/4	3,580.69	3/4	3,271.09	3/4	2,912.34
3		3		3		3	4,457.00	3	4,237.06	3	4,016.74	3	3,796.42	3	3,576.10	3	3,263.61	3	2,904.86
1/4		1/4		1/4		1/4	4,452.79	1/4	4,232.47	1/4	4,012.15	1/4	3,791.83	1/4	3,571.51	1/4	3,256.14	1/4	2,897.39
1/2		1/2		1/2		1/2	4,448.20	1/2	4,227.88	1/2	4,007.56	1/2	3,787.24	1/2	3,566.86	1/2	3,248.67	1/2	2,889.92
3/4		3/4		3/4		3/4	4,443.61	3/4	4,223.29	3/4	4,002.97	3/4	3,782.65	3/4	3,562.22	3/4	3,241.19	3/4	2,882.44
4		4		4		4	4,439.02	4	4,218.70	4	3,998.38	4	3,778.06	4	3,557.57	4	3,233.72	4	2,874.97
1/4		1/4		1/4		1/4	4,434.43	1/4	4,214.11	1/4	3,993.79	1/4	3,773.47	1/4	3,552.93	1/4	3,226.25	1/4	2,867.50
1/2		1/2		1/2		1/2	4,429.84	1/2	4,209.52	1/2	3,989.20	1/2	3,768.88	1/2	3,547.90	1/2	3,218.77	1/2	2,860.02
3/4		3/4		3/4		3/4	4,425.25	3/4	4,204.93	3/4	3,984.61	3/4	3,764.29	3/4	3,542.86	3/4	3,211.30	3/4	2,852.55
5		5		5		5	4,420.66	5	4,200.34	5	3,980.02	5	3,759.70	5	3,537.83	5	3,203.82	5	2,845.07
1/4		1/4		1/4		1/4	4,416.07	1/4	4,195.75	1/4	3,975.43	1/4	3,755.11	1/4	3,532.80	1/4	3,196.35	1/4	2,837.60
1/2		1/2		1/2		1/2	4,411.48	1/2	4,191.16	1/2	3,970.84	1/2	3,750.52	1/2	3,527.32	1/2	3,188.88	1/2	2,830.12
3/4		3/4		3/4		3/4	4,406.89	3/4	4,186.57	3/4	3,966.25	3/4	3,745.93	3/4	3,521.85	3/4	3,181.40	3/4	2,822.65
6		6		6		6	4,402.30	6	4,181.98	6	3,961.66	6	3,741.34	6	3,516.37	6	3,173.93	6	2,815.17
1/4		1/4		1/4		1/4	4,397.71	1/4	4,177.39	1/4	3,957.07	1/4	3,736.75	1/4	3,510.90	1/4	3,166.46	1/4	2,807.70
1/2		1/2		1/2		1/2	4,393.12	1/2	4,172.80	1/2	3,952.48	1/2	3,732.16	1/2	3,504.98	1/2	3,158.98	1/2	2,800.23
3/4		3/4		3/4		3/4	4,388.53	3/4	4,168.21	3/4	3,947.89	3/4	3,727.57	3/4	3,499.07	3/4	3,151.51	3/4	2,792.75
7		7		7		7	4,383.94	7	4,163.62	7	3,943.30	7	3,722.98	7	3,493.15	7	3,144.03	7	2,785.28
1/4		1/4		1/4		1/4	4,379.35	1/4	4,159.03	1/4	3,938.71	1/4	3,718.39	1/4	3,487.24	1/4	3,136.56	1/4	2,777.81
1/2		1/2		1/2		1/2	4,374.76	1/2	4,154.44	1/2	3,934.12	1/2	3,713.80	1/2	3,480.88	1/2	3,129.08	1/2	2,770.33
3/4		3/4		3/4		3/4	4,370.17	3/4	4,149.85	3/4	3,929.53	3/4	3,709.21	3/4	3,474.52	3/4	3,121.61	3/4	2,762.86
8		8		8		8	4,365.58	8	4,145.26	8	3,924.94	8	3,704.62	8	3,468.16	8	3,114.13	8	2,755.38
1/4		1/4		1/4		1/4	4,360.99	1/4	4,140.67	1/4	3,920.35	1/4	3,700.03	1/4	3,461.80	1/4	3,106.66	1/4	2,747.91
1/2		1/2		1/2		1/2	4,356.40	1/2	4,136.08	1/2	3,915.76	1/2	3,695.44	1/2	3,455.00	1/2	3,099.19	1/2	2,740.44
3/4		3/4		3/4		3/4	4,351.81	3/4	4,131.49	3/4	3,911.17	3/4	3,690.85	3/4	3,448.20	3/4	3,091.71	3/4	2,732.96
9		9		9		9	4,347.22	9	4,126.90	9	3,906.58	9	3,686.26	9	3,441.40	9	3,084.24	9	2,725.49
1/4		1/4		1/4	4,507.86	1/4	4,342.63	1/4	4,122.31	1/4	3,901.99	1/4	3,681.67	1/4	3,434.60	1/4	3,076.77	1/4	2,718.02
1/2		1/2		1/2	4,507.48	1/2	4,338.04	1/2	4,117.72	1/2	3,897.40	1/2	3,677.08	1/2	3,427.35	1/2	3,069.29	1/2	2,710.54
3/4		3/4		3/4	4,507.10	3/4	4,333.45	3/4	4,113.13	3/4	3,892.81	3/4	3,672.49	3/4	3,420.11	3/4	3,061.82	3/4	2,703.07
10		10		10	4,506.71	10	4,328.86	10	4,108.54	10	3,888.22	10	3,667.90	10	3,412.86	10	3,054.34	10	2,695.59
1/4		1/4		1/4	4,506.33	1/4	4,324.27	1/4	4,103.95	1/4	3,883.63	1/4	3,663.31	1/4	3,405.62	1/4	3,046.87	1/4	2,688.12
1/2		1/2		1/2	4,505.18	1/2	4,319.68	1/2	4,099.36	1/2	3,879.04	1/2	3,658.72	1/2	3,398.15	1/2	3,039.40	1/2	2,680.64
3/4		3/4		3/4	4,504.04	3/4	4,315.09	3/4	4,094.77	3/4	3,874.45	3/4	3,654.13	3/4	3,390.67	3/4	3,031.92	3/4	2,673.17
11		11		11	4,502.89	11	4,310.50	11	4,090.18	11	3,869.86	11	3,649.54	11	3,383.20	11	3,024.45	11	2,665.69
1/4		1/4		1/4	4,501.74	1/4	4,305.91	1/4	4,085.59	1/4	3,865.27	1/4	3,644.95	1/4	3,375.73	1/4	3,016.98	1/4	2,658.22
1/2		1/2		1/2	4,499.83	1/2	4,301.32	1/2	4,081.00	1/2	3,860.68	1/2	3,640.36	1/2	3,368.25	1/2	3,009.50	1/2	2,650.75
3/4		3/4		3/4	4,497.92	3/4	4,296.73	3/4	4,076.41	3/4	3,856.09	3/4	3,635.77	3/4	3,360.78	3/4	3,002.03	3/4	2,643.27

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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" CLOSED 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 29159"

## 3 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMI 30022"

GAUGE HEIGHT 17'-04 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	2,635.80	0	2,277.05	0	1,918.29	0	1,559.54	0	1,201.48	0	843.71	0	485.44	0	127.16	0		0	
1/4	2,628.33	1/4	2,269.58	1/4	1,910.82	1/4	1,552.07	1/4	1,194.04	1/4	836.25	1/4	477.98	1/4	119.70	1/4		1/4	
1/2	2,620.85	1/2	2,262.10	1/2	1,903.35	1/2	1,544.60	1/2	1,186.59	1/2	828.78	1/2	470.51	1/2	112.24	1/2		1/2	
3/4	2,613.38	3/4	2,254.63	3/4	1,895.87	3/4	1,537.12	3/4	1,179.15	3/4	821.32	3/4	463.05	3/4	104.77	3/4		3/4	
1	2,605.90	1	2,247.15	1	1,888.40	1	1,529.65	1	1,171.70	1	813.85	1	455.58	1	97.31	1		1	
1/4	2,598.43	1/4	2,239.68	1/4	1,880.93	1/4	1,522.18	1/4	1,164.26	1/4	806.39	1/4	448.12	1/4	89.85	1/4		1/4	
1/2	2,590.96	1/2	2,232.20	1/2	1,873.45	1/2	1,514.70	1/2	1,156.82	1/2	798.93	1/2	440.65	1/2	82.38	1/2		1/2	
3/4	2,583.48	3/4	2,224.73	3/4	1,865.98	3/4	1,507.23	3/4	1,149.37	3/4	791.46	3/4	433.19	3/4	74.92	3/4		3/4	
2	2,576.01	2	2,217.25	2	1,858.50	2	1,499.75	2	1,141.93	2	784.00	2	425.72	2	67.45	2		2	
1/4	2,568.54	1/4	2,209.78	1/4	1,851.03	1/4	1,492.28	1/4	1,134.49	1/4	776.54	1/4	418.26	1/4	59.99	1/4		1/4	
1/2	2,561.06	1/2	2,202.31	1/2	1,843.56	1/2	1,484.80	1/2	1,127.04	1/2	769.07	1/2	410.80	1/2	53.46	1/2		1/2	
3/4	2,553.59	3/4	2,194.83	3/4	1,836.08	3/4	1,477.33	3/4	1,119.60	3/4	761.61	3/4	403.33	3/4	46.93	3/4		3/4	
3	2,546.11	3	2,187.36	3	1,828.61	3	1,469.85	3	1,112.15	3	754.14	3	395.87	3	40.40	3		3	
1/4	2,538.64	1/4	2,179.89	1/4	1,821.14	1/4	1,462.38	1/4	1,104.71	1/4	746.68	1/4	388.41	1/4	33.87	1/4		1/4	
1/2	2,531.16	1/2	2,172.41	1/2	1,813.66	1/2	1,454.91	1/2	1,097.27	1/2	739.21	1/2	380.94	1/2	29.20	1/2		1/2	
3/4	2,523.69	3/4	2,164.94	3/4	1,806.19	3/4	1,447.43	3/4	1,089.82	3/4	731.75	3/4	373.48	3/4	24.54	3/4		3/4	
4	2,516.21	4	2,157.46	4	1,798.71	4	1,439.96	4	1,082.38	4	724.28	4	366.01	4	19.87	4		4	
1/4	2,508.74	1/4	2,149.99	1/4	1,791.24	1/4	1,432.49	1/4	1,074.94	1/4	716.82	1/4	358.55	1/4	15.21	1/4		1/4	
1/2	2,501.27	1/2	2,142.52	1/2	1,783.76	1/2	1,425.01	1/2	1,067.49	1/2	709.36	1/2	351.09	1/2		1/2		1/2	
3/4	2,493.79	3/4	2,135.04	3/4	1,776.29	3/4	1,417.54	3/4	1,060.05	3/4	701.89	3/4	343.62	3/4		3/4		3/4	
5	2,486.32	5	2,127.57	5	1,768.81	5	1,410.06	5	1,052.60	5	694.43	5	336.16	5		5		5	
1/4	2,478.85	1/4	2,120.10	1/4	1,761.34	1/4	1,402.59	1/4	1,045.16	1/4	686.97	1/4	328.70	1/4		1/4		1/4	
1/2	2,471.37	1/2	2,112.62	1/2	1,753.87	1/2	1,395.12	1/2	1,037.71	1/2	679.50	1/2	321.23	1/2		1/2		1/2	
3/4	2,463.90	3/4	2,105.15	3/4	1,746.39	3/4	1,387.64	3/4	1,030.27	3/4	672.04	3/4	313.77	3/4		3/4		3/4	
6	2,456.42	6	2,097.67	6	1,738.92	6	1,380.17	6	1,022.82	6	664.57	6	306.30	6		6		6	
1/4	2,448.95	1/4	2,090.20	1/4	1,731.45	1/4	1,372.70	1/4	1,015.38	1/4	657.11	1/4	298.84	1/4		1/4		1/4	
1/2	2,441.48	1/2	2,082.72	1/2	1,723.97	1/2	1,365.25	1/2	1,007.92	1/2	649.65	1/2	291.37	1/2		1/2		1/2	
3/4	2,434.00	3/4	2,075.25	3/4	1,716.50	3/4	1,357.81	3/4	1,000.45	3/4	642.18	3/4	283.91	3/4		3/4		3/4	
7	2,426.53	7	2,067.77	7	1,709.02	7	1,350.36	7	992.99	7	634.72	7	276.44	7		7		7	
1/4	2,419.06	1/4	2,060.30	1/4	1,701.55	1/4	1,342.92	1/4	985.53	1/4	627.26	1/4	268.98	1/4		1/4		1/4	
1/2	2,411.58	1/2	2,052.83	1/2	1,694.08	1/2	1,335.47	1/2	978.06	1/2	619.79	1/2	261.52	1/2		1/2		1/2	
3/4	2,404.11	3/4	2,045.35	3/4	1,686.60	3/4	1,328.03	3/4	970.60	3/4	612.33	3/4	254.05	3/4		3/4		3/4	
8	2,396.63	8	2,037.88	8	1,679.13	8	1,320.59	8	963.13	8	604.86	8	246.59	8		8		8	
1/4	2,389.16	1/4	2,030.41	1/4	1,671.66	1/4	1,313.14	1/4	955.67	1/4	597.40	1/4	239.13	1/4		1/4		1/4	
1/2	2,381.68	1/2	2,022.93	1/2	1,664.18	1/2	1,305.70	1/2	948.21	1/2	589.93	1/2	231.66	1/2		1/2		1/2	
3/4	2,374.21	3/4	2,015.46	3/4	1,656.71	3/4	1,298.25	3/4	940.74	3/4	582.47	3/4	224.20	3/4		3/4		3/4	
9	2,366.73	9	2,007.98	9	1,649.23	9	1,290.81	9	933.28	9	575.00	9	216.73	9		9		9	
1/4	2,359.26	1/4	2,000.51	1/4	1,641.76	1/4	1,283.37	1/4	925.82	1/4	567.54	1/4	209.27	1/4		1/4		1/4	
1/2	2,351.79	1/2	1,993.04	1/2	1,634.28	1/2	1,275.92	1/2	918.35	1/2	560.08	1/2	201.81	1/2		1/2		1/2	
3/4	2,344.31	3/4	1,985.56	3/4	1,626.81	3/4	1,268.48	3/4	910.89	3/4	552.61	3/4	194.34	3/4		3/4		3/4	
10	2,336.84	10	1,978.09	10	1,619.33	10	1,261.03	10	903.42	10	545.15	10	186.88	10		10		10	
1/4	2,329.37	1/4	1,970.62	1/4	1,611.86	1/4	1,253.59	1/4	895.96	1/4	537.69	1/4	179.42	1/4		1/4		1/4	
1/2	2,321.89	1/2	1,963.14	1/2	1,604.39	1/2	1,246.15	1/2	888.49	1/2	530.22	1/2	171.95	1/2		1/2		1/2	
3/4	2,314.42	3/4	1,955.67	3/4	1,596.91	3/4	1,238.70	3/4	881.03	3/4	522.76	3/4	164.49	3/4		3/4		3/4	
11	2,306.94	11	1,948.19	11	1,589.44	11	1,231.26	11	873.56	11	515.29	11	157.02	11		11		11	
1/4	2,299.47	1/4	1,940.72	1/4	1,581.97	1/4	1,223.82	1/4	866.10	1/4	507.83	1/4	149.56	1/4		1/4		1/4	
1/2	2,292.00	1/2	1,933.24	1/2	1,574.49	1/2	1,216.37	1/2	858.64	1/2	500.37	1/2	142.09	1/2		1/2		1/2	
3/4	2,284.52	3/4	1,925.77	3/4	1,567.02	3/4	1,208.93	3/4	851.17	3/4	492.90	3/4	134.63	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/11/2011 INSP.  
RECALCULATED: 07/29/2021 PMA  
NAME CHANGE: 07/29/2021 PMA

CANCELS AND SUPERCEDES  
ALL PRIOR TO 07/2021

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



# BARGE "KIRBY 29159"

**3 STBD**

**ULLAGE TABLE**

**HERMETIC**

**GAUGE HEIGHT 17'-04"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMI 30022"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	4,494.09	0	4,287.55	0	4,067.23	0	3,846.91	0	3,626.59	0	3,345.83	0	2,987.08
1/4		1/4		1/4		1/4	4,491.41	1/4	4,282.96	1/4	4,062.64	1/4	3,842.32	1/4	3,622.00	1/4	3,338.36	1/4	2,979.60
1/2		1/2		1/2		1/2	4,488.74	1/2	4,278.37	1/2	4,058.05	1/2	3,837.73	1/2	3,617.41	1/2	3,330.88	1/2	2,972.13
3/4		3/4		3/4		3/4	4,486.06	3/4	4,273.78	3/4	4,053.46	3/4	3,833.14	3/4	3,612.82	3/4	3,323.41	3/4	2,964.65
<b>1</b>		<b>1</b>		<b>1</b>		<b>1</b>	<b>4,483.38</b>	<b>1</b>	<b>4,269.19</b>	<b>1</b>	<b>4,048.87</b>	<b>1</b>	<b>3,828.55</b>	<b>1</b>	<b>3,608.23</b>	<b>1</b>	<b>3,315.94</b>	<b>1</b>	<b>2,957.18</b>
1/4		1/4		1/4		1/4	4,479.94	1/4	4,264.60	1/4	4,044.28	1/4	3,823.96	1/4	3,603.64	1/4	3,308.46	1/4	2,949.71
1/2		1/2		1/2		1/2	4,476.50	1/2	4,260.01	1/2	4,039.69	1/2	3,819.37	1/2	3,599.05	1/2	3,300.99	1/2	2,942.23
3/4		3/4		3/4		3/4	4,473.06	3/4	4,255.42	3/4	4,035.10	3/4	3,814.78	3/4	3,594.46	3/4	3,293.51	3/4	2,934.76
<b>2</b>		<b>2</b>		<b>2</b>		<b>2</b>	<b>4,469.62</b>	<b>2</b>	<b>4,250.83</b>	<b>2</b>	<b>4,030.51</b>	<b>2</b>	<b>3,810.19</b>	<b>2</b>	<b>3,589.87</b>	<b>2</b>	<b>3,286.04</b>	<b>2</b>	<b>2,927.29</b>
1/4		1/4		1/4		1/4	4,465.41	1/4	4,246.24	1/4	4,025.92	1/4	3,805.60	1/4	3,585.28	1/4	3,278.56	1/4	2,919.81
1/2		1/2		1/2		1/2	4,461.21	1/2	4,241.65	1/2	4,021.33	1/2	3,801.01	1/2	3,580.69	1/2	3,271.09	1/2	2,912.34
3/4		3/4		3/4		3/4	4,457.00	3/4	4,237.06	3/4	4,016.74	3/4	3,796.42	3/4	3,576.10	3/4	3,263.61	3/4	2,904.86
<b>3</b>		<b>3</b>		<b>3</b>		<b>3</b>	<b>4,452.79</b>	<b>3</b>	<b>4,232.47</b>	<b>3</b>	<b>4,012.15</b>	<b>3</b>	<b>3,791.83</b>	<b>3</b>	<b>3,571.51</b>	<b>3</b>	<b>3,256.14</b>	<b>3</b>	<b>2,897.39</b>
1/4		1/4		1/4		1/4	4,448.20	1/4	4,227.88	1/4	4,007.56	1/4	3,787.24	1/4	3,566.86	1/4	3,248.67	1/4	2,889.92
1/2		1/2		1/2		1/2	4,443.61	1/2	4,223.29	1/2	4,002.97	1/2	3,782.65	1/2	3,562.22	1/2	3,241.19	1/2	2,882.44
3/4		3/4		3/4		3/4	4,439.02	3/4	4,218.70	3/4	3,998.38	3/4	3,778.06	3/4	3,557.57	3/4	3,233.72	3/4	2,874.97
<b>4</b>		<b>4</b>		<b>4</b>		<b>4</b>	<b>4,434.43</b>	<b>4</b>	<b>4,214.11</b>	<b>4</b>	<b>3,993.79</b>	<b>4</b>	<b>3,773.47</b>	<b>4</b>	<b>3,552.93</b>	<b>4</b>	<b>3,226.25</b>	<b>4</b>	<b>2,867.50</b>
1/4		1/4		1/4		1/4	4,429.84	1/4	4,209.52	1/4	3,989.20	1/4	3,768.88	1/4	3,547.90	1/4	3,218.77	1/4	2,860.02
1/2		1/2		1/2		1/2	4,425.25	1/2	4,204.93	1/2	3,984.61	1/2	3,764.29	1/2	3,542.86	1/2	3,211.30	1/2	2,852.55
3/4		3/4		3/4		3/4	4,420.66	3/4	4,200.34	3/4	3,980.02	3/4	3,759.70	3/4	3,537.83	3/4	3,203.82	3/4	2,845.07
<b>5</b>		<b>5</b>		<b>5</b>		<b>5</b>	<b>4,416.07</b>	<b>5</b>	<b>4,195.75</b>	<b>5</b>	<b>3,975.43</b>	<b>5</b>	<b>3,755.11</b>	<b>5</b>	<b>3,532.80</b>	<b>5</b>	<b>3,196.35</b>	<b>5</b>	<b>2,837.60</b>
1/4		1/4		1/4		1/4	4,411.48	1/4	4,191.16	1/4	3,970.84	1/4	3,750.52	1/4	3,527.32	1/4	3,188.88	1/4	2,830.12
1/2		1/2		1/2		1/2	4,406.89	1/2	4,186.57	1/2	3,966.25	1/2	3,745.93	1/2	3,521.85	1/2	3,181.40	1/2	2,822.65
3/4		3/4		3/4		3/4	4,402.30	3/4	4,181.98	3/4	3,961.66	3/4	3,741.34	3/4	3,516.37	3/4	3,173.93	3/4	2,815.17
<b>6</b>		<b>6</b>		<b>6</b>		<b>6</b>	<b>4,397.71</b>	<b>6</b>	<b>4,177.39</b>	<b>6</b>	<b>3,957.07</b>	<b>6</b>	<b>3,736.75</b>	<b>6</b>	<b>3,510.90</b>	<b>6</b>	<b>3,166.46</b>	<b>6</b>	<b>2,807.70</b>
1/4		1/4		1/4		1/4	4,393.12	1/4	4,172.80	1/4	3,952.48	1/4	3,732.16	1/4	3,504.98	1/4	3,158.98	1/4	2,800.23
1/2		1/2		1/2		1/2	4,388.53	1/2	4,168.21	1/2	3,947.89	1/2	3,727.57	1/2	3,499.07	1/2	3,151.51	1/2	2,792.75
3/4		3/4		3/4		3/4	4,383.94	3/4	4,163.62	3/4	3,943.30	3/4	3,722.98	3/4	3,493.15	3/4	3,144.03	3/4	2,785.28
<b>7</b>		<b>7</b>		<b>7</b>		<b>7</b>	<b>4,379.35</b>	<b>7</b>	<b>4,159.03</b>	<b>7</b>	<b>3,938.71</b>	<b>7</b>	<b>3,718.39</b>	<b>7</b>	<b>3,487.24</b>	<b>7</b>	<b>3,136.56</b>	<b>7</b>	<b>2,777.81</b>
1/4		1/4		1/4		1/4	4,374.76	1/4	4,154.44	1/4	3,934.12	1/4	3,713.80	1/4	3,480.88	1/4	3,129.08	1/4	2,770.33
1/2		1/2		1/2		1/2	4,370.17	1/2	4,149.85	1/2	3,929.53	1/2	3,709.21	1/2	3,474.52	1/2	3,121.61	1/2	2,762.86
3/4		3/4		3/4		3/4	4,365.58	3/4	4,145.26	3/4	3,924.94	3/4	3,704.62	3/4	3,468.16	3/4	3,114.13	3/4	2,755.38
<b>8</b>		<b>8</b>		<b>8</b>		<b>8</b>	<b>4,360.99</b>	<b>8</b>	<b>4,140.67</b>	<b>8</b>	<b>3,920.35</b>	<b>8</b>	<b>3,700.03</b>	<b>8</b>	<b>3,461.80</b>	<b>8</b>	<b>3,106.66</b>	<b>8</b>	<b>2,747.91</b>
1/4		1/4		1/4		1/4	4,356.40	1/4	4,136.08	1/4	3,915.76	1/4	3,695.44	1/4	3,455.00	1/4	3,099.19	1/4	2,740.44
1/2		1/2		1/2		1/2	4,351.81	1/2	4,131.49	1/2	3,911.17	1/2	3,690.85	1/2	3,448.20	1/2	3,091.71	1/2	2,732.96
3/4		3/4		3/4		3/4	4,347.22	3/4	4,126.90	3/4	3,906.58	3/4	3,686.26	3/4	3,441.40	3/4	3,084.24	3/4	2,725.49
<b>9</b>		<b>9</b>		<b>9</b>	4,507.86	<b>9</b>	<b>4,342.63</b>	<b>9</b>	<b>4,122.31</b>	<b>9</b>	<b>3,901.99</b>	<b>9</b>	<b>3,681.67</b>	<b>9</b>	<b>3,434.60</b>	<b>9</b>	<b>3,076.77</b>	<b>9</b>	<b>2,718.02</b>
1/4		1/4		1/4	4,507.48	1/4	4,338.04	1/4	4,117.72	1/4	3,897.40	1/4	3,677.08	1/4	3,427.35	1/4	3,069.29	1/4	2,710.54
1/2		1/2		1/2	4,507.10	1/2	4,333.45	1/2	4,113.13	1/2	3,892.81	1/2	3,672.49	1/2	3,420.11	1/2	3,061.82	1/2	2,703.07
3/4		3/4		3/4	4,506.71	3/4	4,328.86	3/4	4,108.54	3/4	3,888.22	3/4	3,667.90	3/4	3,412.86	3/4	3,054.34	3/4	2,695.59
<b>10</b>		<b>10</b>		<b>10</b>	4,506.33	<b>10</b>	<b>4,324.27</b>	<b>10</b>	<b>4,103.95</b>	<b>10</b>	<b>3,883.63</b>	<b>10</b>	<b>3,663.31</b>	<b>10</b>	<b>3,405.62</b>	<b>10</b>	<b>3,046.87</b>	<b>10</b>	<b>2,688.12</b>
1/4		1/4		1/4	4,505.18	1/4	4,319.68	1/4	4,099.36	1/4	3,879.04	1/4	3,658.72	1/4	3,398.15	1/4	3,039.40	1/4	2,680.64
1/2		1/2		1/2	4,504.04	1/2	4,315.09	1/2	4,094.77	1/2	3,874.45	1/2	3,654.13	1/2	3,390.67	1/2	3,031.92	1/2	2,673.17
3/4		3/4		3/4	4,502.89	3/4	4,310.50	3/4	4,090.18	3/4	3,869.86	3/4	3,649.54	3/4	3,383.20	3/4	3,024.45	3/4	2,665.69
<b>11</b>		<b>11</b>		<b>11</b>	4,501.74	<b>11</b>	<b>4,305.91</b>	<b>11</b>	<b>4,085.59</b>	<b>11</b>	<b>3,865.27</b>	<b>11</b>	<b>3,644.95</b>	<b>11</b>	<b>3,375.73</b>	<b>11</b>	<b>3,016.98</b>	<b>11</b>	<b>2,658.22</b>
1/4		1/4		1/4	4,499.83	1/4	4,301.32	1/4	4,081.00	1/4	3,860.68	1/4	3,640.36	1/4	3,368.25	1/4	3,009.50	1/4	2,650.75
1/2		1/2		1/2	4,497.92	1/2	4,296.73	1/2	4,076.41	1/2	3,856.09	1/2	3,635.77	1/2	3,360.78	1/2	3,002.03	1/2	2,643.27
3/4		3/4		3/4	4,496.00	3/4	4,292.14	3/4	4,071.82	3/4	3,851.50	3/4	3,631.18	3/4	3,353.30	3/4	2,994.55	3/4	2,635.80

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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" CLOSED 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 29159"

3 STBD

ULLAGE TABLE  
HERMETIC

GAUGE HEIGHT 17'-04"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMI 30022"

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	2,628.33	0	2,269.58	0	1,910.82	0	1,552.07	0	1,194.04	0	836.25	0	477.98	0	119.70	0		0	
1/4	2,620.85	1/4	2,262.10	1/4	1,903.35	1/4	1,544.60	1/4	1,186.59	1/4	828.78	1/4	470.51	1/4	112.24	1/4		1/4	
1/2	2,613.38	1/2	2,254.63	1/2	1,895.87	1/2	1,537.12	1/2	1,179.15	1/2	821.32	1/2	463.05	1/2	104.77	1/2		1/2	
3/4	2,605.90	3/4	2,247.15	3/4	1,888.40	3/4	1,529.65	3/4	1,171.70	3/4	813.85	3/4	455.58	3/4	97.31	3/4		3/4	
1	2,598.43	1	2,239.68	1	1,880.93	1	1,522.18	1	1,164.26	1	806.39	1	448.12	1	89.85	1		1	
1/4	2,590.96	1/4	2,232.20	1/4	1,873.45	1/4	1,514.70	1/4	1,156.82	1/4	798.93	1/4	440.65	1/4	82.38	1/4		1/4	
1/2	2,583.48	1/2	2,224.73	1/2	1,865.98	1/2	1,507.23	1/2	1,149.37	1/2	791.46	1/2	433.19	1/2	74.92	1/2		1/2	
3/4	2,576.01	3/4	2,217.25	3/4	1,858.50	3/4	1,499.75	3/4	1,141.93	3/4	784.00	3/4	425.72	3/4	67.45	3/4		3/4	
2	2,568.54	2	2,209.78	2	1,851.03	2	1,492.28	2	1,134.49	2	776.54	2	418.26	2	59.99	2		2	
1/4	2,561.06	1/4	2,202.31	1/4	1,843.56	1/4	1,484.80	1/4	1,127.04	1/4	769.07	1/4	410.80	1/4	53.46	1/4		1/4	
1/2	2,553.59	1/2	2,194.83	1/2	1,836.08	1/2	1,477.33	1/2	1,119.60	1/2	761.61	1/2	403.33	1/2	46.93	1/2		1/2	
3/4	2,546.11	3/4	2,187.36	3/4	1,828.61	3/4	1,469.85	3/4	1,112.15	3/4	754.14	3/4	395.87	3/4	40.40	3/4		3/4	
3	2,538.64	3	2,179.89	3	1,821.14	3	1,462.38	3	1,104.71	3	746.68	3	388.41	3	33.87	3		3	
1/4	2,531.16	1/4	2,172.41	1/4	1,813.66	1/4	1,454.91	1/4	1,097.27	1/4	739.21	1/4	380.94	1/4	29.20	1/4		1/4	
1/2	2,523.69	1/2	2,164.94	1/2	1,806.19	1/2	1,447.43	1/2	1,089.82	1/2	731.75	1/2	373.48	1/2	24.54	1/2		1/2	
3/4	2,516.21	3/4	2,157.46	3/4	1,798.71	3/4	1,439.96	3/4	1,082.38	3/4	724.28	3/4	366.01	3/4	19.87	3/4		3/4	
4	2,508.74	4	2,149.99	4	1,791.24	4	1,432.49	4	1,074.94	4	716.82	4	358.55	4	15.21	4		4	
1/4	2,501.27	1/4	2,142.52	1/4	1,783.76	1/4	1,425.01	1/4	1,067.49	1/4	709.36	1/4	351.09	1/4		1/4		1/4	
1/2	2,493.79	1/2	2,135.04	1/2	1,776.29	1/2	1,417.54	1/2	1,060.05	1/2	701.89	1/2	343.62	1/2		1/2		1/2	
3/4	2,486.32	3/4	2,127.57	3/4	1,768.81	3/4	1,410.06	3/4	1,052.60	3/4	694.43	3/4	336.16	3/4		3/4		3/4	
5	2,478.85	5	2,120.10	5	1,761.34	5	1,402.59	5	1,045.16	5	686.97	5	328.70	5		5		5	
1/4	2,471.37	1/4	2,112.62	1/4	1,753.87	1/4	1,395.12	1/4	1,037.71	1/4	679.50	1/4	321.23	1/4		1/4		1/4	
1/2	2,463.90	1/2	2,105.15	1/2	1,746.39	1/2	1,387.64	1/2	1,030.27	1/2	672.04	1/2	313.77	1/2		1/2		1/2	
3/4	2,456.42	3/4	2,097.67	3/4	1,738.92	3/4	1,380.17	3/4	1,022.82	3/4	664.57	3/4	306.30	3/4		3/4		3/4	
6	2,448.95	6	2,090.20	6	1,731.45	6	1,372.70	6	1,015.38	6	657.11	6	298.84	6		6		6	
1/4	2,441.48	1/4	2,082.72	1/4	1,723.97	1/4	1,365.25	1/4	1,007.92	1/4	649.65	1/4	291.37	1/4		1/4		1/4	
1/2	2,434.00	1/2	2,075.25	1/2	1,716.50	1/2	1,357.81	1/2	1,000.45	1/2	642.18	1/2	283.91	1/2		1/2		1/2	
3/4	2,426.53	3/4	2,067.77	3/4	1,709.02	3/4	1,350.36	3/4	992.99	3/4	634.72	3/4	276.44	3/4		3/4		3/4	
7	2,419.06	7	2,060.30	7	1,701.55	7	1,342.92	7	985.53	7	627.26	7	268.98	7		7		7	
1/4	2,411.58	1/4	2,052.83	1/4	1,694.08	1/4	1,335.47	1/4	978.06	1/4	619.79	1/4	261.52	1/4		1/4		1/4	
1/2	2,404.11	1/2	2,045.35	1/2	1,686.60	1/2	1,328.03	1/2	970.60	1/2	612.33	1/2	254.05	1/2		1/2		1/2	
3/4	2,396.63	3/4	2,037.88	3/4	1,679.13	3/4	1,320.59	3/4	963.13	3/4	604.86	3/4	246.59	3/4		3/4		3/4	
8	2,389.16	8	2,030.41	8	1,671.66	8	1,313.14	8	955.67	8	597.40	8	239.13	8		8		8	
1/4	2,381.68	1/4	2,022.93	1/4	1,664.18	1/4	1,305.70	1/4	948.21	1/4	589.93	1/4	231.66	1/4		1/4		1/4	
1/2	2,374.21	1/2	2,015.46	1/2	1,656.71	1/2	1,298.25	1/2	940.74	1/2	582.47	1/2	224.20	1/2		1/2		1/2	
3/4	2,366.73	3/4	2,007.98	3/4	1,649.23	3/4	1,290.81	3/4	933.28	3/4	575.00	3/4	216.73	3/4		3/4		3/4	
9	2,359.26	9	2,000.51	9	1,641.76	9	1,283.37	9	925.82	9	567.54	9	209.27	9		9		9	
1/4	2,351.79	1/4	1,993.04	1/4	1,634.28	1/4	1,275.92	1/4	918.35	1/4	560.08	1/4	201.81	1/4		1/4		1/4	
1/2	2,344.31	1/2	1,985.56	1/2	1,626.81	1/2	1,268.48	1/2	910.89	1/2	552.61	1/2	194.34	1/2		1/2		1/2	
3/4	2,336.84	3/4	1,978.09	3/4	1,619.33	3/4	1,261.03	3/4	903.42	3/4	545.15	3/4	186.88	3/4		3/4		3/4	
10	2,329.37	10	1,970.62	10	1,611.86	10	1,253.59	10	895.96	10	537.69	10	179.42	10		10		10	
1/4	2,321.89	1/4	1,963.14	1/4	1,604.39	1/4	1,246.15	1/4	888.49	1/4	530.22	1/4	171.95	1/4		1/4		1/4	
1/2	2,314.42	1/2	1,955.67	1/2	1,596.91	1/2	1,238.70	1/2	881.03	1/2	522.76	1/2	164.49	1/2		1/2		1/2	
3/4	2,306.94	3/4	1,948.19	3/4	1,589.44	3/4	1,231.26	3/4	873.56	3/4	515.29	3/4	157.02	3/4		3/4		3/4	
11	2,299.47	11	1,940.72	11	1,581.97	11	1,223.82	11	866.10	11	507.83	11	149.56	11		11		11	
1/4	2,292.00	1/4	1,933.24	1/4	1,574.49	1/4	1,216.37	1/4	858.64	1/4	500.37	1/4	142.09	1/4		1/4		1/4	
1/2	2,284.52	1/2	1,925.77	1/2	1,567.02	1/2	1,208.93	1/2	851.17	1/2	492.90	1/2	134.63	1/2		1/2		1/2	
3/4	2,277.05	3/4	1,918.29	3/4	1,559.54	3/4	1,201.48	3/4	843.71	3/4	485.44	3/4	127.16	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/11/2011 INSP.  
RECALCULATED: 07/29/2021 PMA  
NAME CHANGE: 07/29/2021 PMA

CANCELS AND SUPERCEDES  
ALL PRIOR TO 07/2021

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