



BARGE "KIRBY 28021"

ULLAGE TRIM TABLE

	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	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/2	00-1/2	- 00-5/8	00-5/8	- 00-3/4	00-3/4	- 00-7/8	00-7/8
1 STBD	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/2	00-1/2	- 00-5/8	00-5/8	- 00-3/4	00-3/4	- 00-7/8	00-7/8
2 PORT	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/2	00-1/2	- 00-5/8	00-5/8	- 00-3/4	00-3/4	- 00-7/8	00-7/8
2 STBD	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/2	00-1/2	- 00-5/8	00-5/8	- 00-3/4	00-3/4	- 00-7/8	00-7/8
3 PORT	- 00-1/8	00-1/8	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-5/8	00-5/8	- 00-7/8	00-7/8	- 01-0/8	01-0/8
3 STBD	- 00-1/8	00-1/8	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-5/8	00-5/8	- 00-7/8	00-7/8	- 01-0/8	01-0/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 1 PORT IS 00-1/4"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 4'-00 1/4"

LENGTH BETWEEN DRAFT MARKS: 236'-03"

June 1, 2023

PRECISION MEASUREMENT
 & ANALYSIS, INC.

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 28021"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-10 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	4,353.79	0	4,054.59	0	3,758.64	0	3,448.02	0	3,123.89	0	2,792.62	0	2,461.33
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,348.61	1/4	4,048.57	1/4	3,752.30	1/4	3,441.41	1/4	3,117.00	1/4	2,785.72	1/4	2,454.42
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,343.43	1/2	4,042.56	1/2	3,745.97	1/2	3,434.80	1/2	3,110.11	1/2	2,778.81	1/2	2,447.52
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,336.53	3/4	4,036.52	3/4	3,739.61	3/4	3,428.17	3/4	3,103.20	3/4	2,771.91	3/4	2,440.62
1		1		1		1	4,329.62	1	4,030.47	1	3,733.26	1	3,421.53	1	3,096.30	1	2,765.01	1	2,433.72
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,322.72	1/4	4,024.43	1/4	3,726.90	1/4	3,414.90	1/4	3,089.40	1/4	2,758.11	1/4	2,426.81
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,315.82	1/2	4,018.39	1/2	3,720.55	1/2	3,408.27	1/2	3,082.50	1/2	2,751.21	1/2	2,419.91
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,308.92	3/4	4,012.33	3/4	3,714.18	3/4	3,401.61	3/4	3,075.60	3/4	2,744.30	3/4	2,413.01
2		2		2		2	4,302.01	2	4,006.26	2	3,707.80	2	3,394.94	2	3,068.69	2	2,737.40	2	2,406.10
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,295.11	1/4	4,000.20	1/4	3,701.43	1/4	3,388.28	1/4	3,061.79	1/4	2,730.50	1/4	2,399.20
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,288.21	1/2	3,994.14	1/2	3,695.05	1/2	3,381.62	1/2	3,054.89	1/2	2,723.60	1/2	2,392.30
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,281.30	3/4	3,988.06	3/4	3,688.65	3/4	3,374.94	3/4	3,047.99	3/4	2,716.70	3/4	2,385.39
3		3		3		3	4,274.40	3	3,981.97	3	3,682.24	3	3,368.26	3	3,041.09	3	2,709.80	3	2,378.49
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,267.50	1/4	3,975.89	1/4	3,675.84	1/4	3,361.58	1/4	3,034.18	1/4	2,702.89	1/4	2,371.59
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,260.59	1/2	3,969.81	1/2	3,669.44	1/2	3,354.90	1/2	3,027.28	1/2	2,695.99	1/2	2,364.68
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,253.69	3/4	3,963.69	3/4	3,663.01	3/4	3,348.19	3/4	3,020.38	3/4	2,689.09	3/4	2,357.78
4		4		4		4	4,246.79	4	3,957.58	4	3,656.59	4	3,341.49	4	3,013.48	4	2,682.19	4	2,350.88
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,239.88	1/4	3,951.47	1/4	3,650.16	1/4	3,334.79	1/4	3,006.58	1/4	2,675.29	1/4	2,343.97
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,232.98	1/2	3,945.36	1/2	3,643.74	1/2	3,328.08	1/2	2,999.67	1/2	2,668.38	1/2	2,337.07
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,227.09	3/4	3,939.23	3/4	3,637.30	3/4	3,321.35	3/4	2,992.77	3/4	2,661.48	3/4	2,330.17
5		5		5		5	4,221.20	5	3,933.10	5	3,630.85	5	3,314.62	5	2,985.87	5	2,654.58	5	2,323.27
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,215.31	1/4	3,926.96	1/4	3,624.41	1/4	3,307.89	1/4	2,978.97	1/4	2,647.68	1/4	2,316.36
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,209.43	1/2	3,920.83	1/2	3,617.96	1/2	3,301.16	1/2	2,972.07	1/2	2,640.78	1/2	2,309.46
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,203.52	3/4	3,914.68	3/4	3,611.49	3/4	3,294.41	3/4	2,965.17	3/4	2,633.87	3/4	2,302.56
6		6		6		6	4,197.61	6	3,908.53	6	3,605.02	6	3,287.66	6	2,958.26	6	2,626.97	6	2,295.65
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,191.70	1/4	3,902.37	1/4	3,598.54	1/4	3,280.91	1/4	2,951.36	1/4	2,620.07	1/4	2,288.75
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,185.79	1/2	3,896.22	1/2	3,592.07	1/2	3,274.16	1/2	2,944.46	1/2	2,613.17	1/2	2,281.85
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,179.86	3/4	3,890.04	3/4	3,585.58	3/4	3,267.38	3/4	2,937.56	3/4	2,606.27	3/4	2,274.94
7		7		7		7	4,173.93	7	3,883.86	7	3,579.08	7	3,260.59	7	2,930.66	7	2,599.36	7	2,268.04
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,168.00	1/4	3,877.68	1/4	3,572.59	1/4	3,253.81	1/4	2,923.75	1/4	2,592.46	1/4	2,261.14
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,162.07	1/2	3,871.50	1/2	3,566.10	1/2	3,247.03	1/2	2,916.85	1/2	2,585.56	1/2	2,254.23
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,156.11	3/4	3,865.30	3/4	3,559.58	3/4	3,240.23	3/4	2,909.95	3/4	2,578.66	3/4	2,247.33
8		8		8		8	4,150.15	8	3,859.09	8	3,553.07	8	3,233.43	8	2,903.05	8	2,571.76	8	2,240.43
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,144.19	1/4	3,852.89	1/4	3,546.55	1/4	3,226.63	1/4	2,896.15	1/4	2,564.86	1/4	2,233.52
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,138.24	1/2	3,846.69	1/2	3,540.04	1/2	3,219.83	1/2	2,889.24	1/2	2,557.95	1/2	2,226.62
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,132.29	3/4	3,840.43	3/4	3,533.49	3/4	3,213.01	3/4	2,882.34	3/4	2,551.05	3/4	2,219.72
9		9		9		9	4,126.35	9	3,834.18	9	3,526.95	9	3,206.19	9	2,875.44	9	2,544.15	9	2,212.81
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,120.40	1/4	3,827.92	1/4	3,520.41	1/4	3,199.37	1/4	2,868.54	1/4	2,537.25	1/4	2,205.91
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,114.46	1/2	3,821.66	1/2	3,513.87	1/2	3,192.55	1/2	2,861.64	1/2	2,530.35	1/2	2,199.01
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,108.49	3/4	3,815.38	3/4	3,507.31	3/4	3,185.70	3/4	2,854.74	3/4	2,523.44	3/4	2,192.10
10		10		10		10	4,102.52	10	3,809.09	10	3,500.74	10	3,178.85	10	2,847.83	10	2,516.54	10	2,185.20
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,096.56	1/4	3,802.81	1/4	3,494.18	1/4	3,172.00	1/4	2,840.93	1/4	2,509.64	1/4	2,178.30
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,090.59	1/2	3,796.53	1/2	3,487.62	1/2	3,165.15	1/2	2,834.03	1/2	2,502.74	1/2	2,171.39
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,084.60	3/4	3,790.22	3/4	3,481.02	3/4	3,158.28	3/4	2,827.13	3/4	2,495.84	3/4	2,164.49
11		11		11		11	4,078.60	11	3,783.92	11	3,474.43	11	3,151.41	11	2,820.23	11	2,488.93	11	2,157.59
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,072.61	1/4	3,777.61	1/4	3,467.84	1/4	3,144.54	1/4	2,813.32	1/4	2,482.03	1/4	2,150.69
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,066.62	1/2	3,771.30	1/2	3,461.25	1/2	3,137.67	1/2	2,806.42	1/2	2,475.13	1/2	2,143.78
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,358.97	3/4	4,060.60	3/4	3,764.97	3/4	3,454.63	3/4	3,130.78	3/4	2,799.52	3/4	2,468.23

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 36'-09" FORWARD OF AFT BULKHEAD.

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 28021"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-10 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	2,129.98	0	1,798.62	0	1,467.27	0	1,135.91	0	810.29	0	506.54	0	226.22	0		0		0	
1/4	2,123.07	1/4	1,791.72	1/4	1,460.37	1/4	1,129.01	1/4	803.72	1/4	500.45	1/4	220.62	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,116.17	1/2	1,784.82	1/2	1,453.46	1/2	1,122.11	1/2	797.16	1/2	494.36	1/2	215.02	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,109.27	3/4	1,777.91	3/4	1,446.56	3/4	1,115.21	3/4	790.64	3/4	488.32	3/4	209.47	3/4	3/4	3/4	3/4	3/4	3/4
1	2,102.36	1	1,771.01	1	1,439.66	1	1,108.30	1	784.12	1	482.27	1	203.92	1		1		1	
1/4	2,095.46	1/4	1,764.11	1/4	1,432.75	1/4	1,101.40	1/4	777.60	1/4	476.23	1/4	198.37	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,088.56	1/2	1,757.20	1/2	1,425.85	1/2	1,094.50	1/2	771.08	1/2	470.19	1/2	192.82	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,081.65	3/4	1,750.30	3/4	1,418.95	3/4	1,087.59	3/4	764.60	3/4	464.18	3/4	187.30	3/4	3/4	3/4	3/4	3/4	3/4
2	2,074.75	2	1,743.40	2	1,412.04	2	1,080.69	2	758.12	2	458.18	2	181.79	2		2		2	
1/4	2,067.85	1/4	1,736.49	1/4	1,405.14	1/4	1,073.79	1/4	751.64	1/4	452.17	1/4	176.27	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,060.94	1/2	1,729.59	1/2	1,398.24	1/2	1,066.89	1/2	745.16	1/2	446.17	1/2	170.76	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,054.04	3/4	1,722.69	3/4	1,391.33	3/4	1,059.99	3/4	738.71	3/4	440.21	3/4	165.29	3/4	3/4	3/4	3/4	3/4	3/4
3	2,047.14	3	1,715.78	3	1,384.43	3	1,053.10	3	732.26	3	434.24	3	159.82	3		3		3	
1/4	2,040.23	1/4	1,708.88	1/4	1,377.53	1/4	1,046.21	1/4	725.80	1/4	428.28	1/4	154.35	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,033.33	1/2	1,701.98	1/2	1,370.62	1/2	1,039.31	1/2	719.35	1/2	422.32	1/2	148.88	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,026.43	3/4	1,695.07	3/4	1,363.72	3/4	1,032.43	3/4	712.93	3/4	416.40	3/4	143.45	3/4	3/4	3/4	3/4	3/4	3/4
4	2,019.52	4	1,688.17	4	1,356.82	4	1,025.55	4	706.52	4	410.48	4	138.01	4		4		4	
1/4	2,012.62	1/4	1,681.27	1/4	1,349.91	1/4	1,018.68	1/4	700.11	1/4	404.55	1/4	132.58	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,005.72	1/2	1,674.36	1/2	1,343.01	1/2	1,011.80	1/2	693.69	1/2	398.63	1/2	127.15	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,998.81	3/4	1,667.46	3/4	1,336.11	3/4	1,004.94	3/4	687.32	3/4	392.75	3/4	121.76	3/4	3/4	3/4	3/4	3/4	3/4
5	1,991.91	5	1,660.56	5	1,329.20	5	998.09	5	680.95	5	386.87	5	116.37	5		5		5	
1/4	1,985.01	1/4	1,653.65	1/4	1,322.30	1/4	991.23	1/4	674.58	1/4	380.99	1/4	110.99	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,978.11	1/2	1,646.75	1/2	1,315.40	1/2	984.38	1/2	668.21	1/2	375.11	1/2	105.60	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,971.20	3/4	1,639.85	3/4	1,308.49	3/4	977.56	3/4	661.87	3/4	369.27	3/4	100.25	3/4	3/4	3/4	3/4	3/4	3/4
6	1,964.30	6	1,632.95	6	1,301.59	6	970.74	6	655.54	6	363.43	6	94.91	6		6		6	
1/4	1,957.40	1/4	1,626.04	1/4	1,294.69	1/4	963.91	1/4	649.21	1/4	357.59	1/4	89.56	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,950.49	1/2	1,619.14	1/2	1,287.79	1/2	957.09	1/2	642.88	1/2	351.75	1/2	84.21	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,943.59	3/4	1,612.24	3/4	1,280.88	3/4	950.33	3/4	636.59	3/4	345.95	3/4	78.91	3/4	3/4	3/4	3/4	3/4	3/4
7	1,936.69	7	1,605.33	7	1,273.98	7	943.56	7	630.30	7	340.15	7	73.60	7		7		7	
1/4	1,929.78	1/4	1,598.43	1/4	1,267.08	1/4	936.80	1/4	624.01	1/4	334.35	1/4	68.30	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,922.88	1/2	1,591.53	1/2	1,260.17	1/2	930.03	1/2	617.72	1/2	328.55	1/2	63.00	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,915.98	3/4	1,584.62	3/4	1,253.27	3/4	923.30	3/4	611.47	3/4	322.80	3/4	57.73	3/4	3/4	3/4	3/4	3/4	3/4
8	1,909.07	8	1,577.72	8	1,246.37	8	916.58	8	605.22	8	317.04	8	52.47	8		8		8	
1/4	1,902.17	1/4	1,570.82	1/4	1,239.46	1/4	909.85	1/4	598.97	1/4	311.28	1/4	47.20	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,895.27	1/2	1,563.91	1/2	1,232.56	1/2	903.13	1/2	592.72	1/2	305.52	1/2	41.93	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,888.36	3/4	1,557.01	3/4	1,225.66	3/4	896.44	3/4	586.51	3/4	299.80	3/4	37.58	3/4	3/4	3/4	3/4	3/4	3/4
9	1,881.46	9	1,550.11	9	1,218.75	9	889.76	9	580.30	9	294.09	9	33.22	9		9		9	
1/4	1,874.56	1/4	1,543.20	1/4	1,211.85	1/4	883.08	1/4	574.09	1/4	288.37	1/4	28.86	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,867.65	1/2	1,536.30	1/2	1,204.95	1/2	876.39	1/2	567.88	1/2	282.65	1/2	24.50	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,860.75	3/4	1,529.40	3/4	1,198.04	3/4	869.75	3/4	561.72	3/4	276.98	3/4	21.91	3/4	3/4	3/4	3/4	3/4	3/4
10	1,853.85	10	1,522.49	10	1,191.14	10	863.11	10	555.55	10	271.30	10	19.32	10		10		10	
1/4	1,846.94	1/4	1,515.59	1/4	1,184.24	1/4	856.46	1/4	549.38	1/4	265.62	1/4	16.72	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,840.04	1/2	1,508.69	1/2	1,177.33	1/2	849.82	1/2	543.21	1/2	259.94	1/2	14.13	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,833.14	3/4	1,501.78	3/4	1,170.43	3/4	843.22	3/4	537.09	3/4	254.31	3/4		3/4	3/4	3/4	3/4	3/4	3/4
11	1,826.23	11	1,494.88	11	1,163.53	11	836.61	11	530.96	11	248.68	11		11		11		11	
1/4	1,819.33	1/4	1,487.98	1/4	1,156.62	1/4	830.01	1/4	524.83	1/4	243.04	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,812.43	1/2	1,481.07	1/2	1,149.72	1/2	823.41	1/2	518.71	1/2	237.41	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,805.53	3/4	1,474.17	3/4	1,142.82	3/4	816.85	3/4	512.62	3/4	231.81	3/4		3/4	3/4	3/4	3/4	3/4	3/4

STRAPPED: 04/17/2002 CL - SW
VERIFIED: 06/1/2023

CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2023

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
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BARGE "KIRBY 28021"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-10 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	4,346.83	0	4,046.80	0	3,750.52	0	3,439.64	0	3,115.22	0	2,783.94	0	2,452.65
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,341.65	1/4	4,040.78	1/4	3,744.19	1/4	3,433.02	1/4	3,108.33	1/4	2,777.04	1/4	2,445.75
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,334.75	1/2	4,034.74	1/2	3,737.84	1/2	3,426.39	1/2	3,101.43	1/2	2,770.14	1/2	2,438.84
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,327.85	3/4	4,028.70	3/4	3,731.48	3/4	3,419.76	3/4	3,094.53	3/4	2,763.23	3/4	2,431.94
1		1		1		1	4,320.95	1	4,022.65	1	3,725.13	1	3,413.12	1	3,087.62	1	2,756.33	1	2,425.04
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,314.04	1/4	4,016.61	1/4	3,718.77	1/4	3,406.49	1/4	3,080.72	1/4	2,749.43	1/4	2,418.13
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,307.14	1/2	4,010.55	1/2	3,712.40	1/2	3,399.83	1/2	3,073.82	1/2	2,742.53	1/2	2,411.23
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,300.24	3/4	4,004.49	3/4	3,706.02	3/4	3,393.17	3/4	3,066.92	3/4	2,735.63	3/4	2,404.33
2		2		2		2	4,293.33	2	3,998.43	2	3,699.65	2	3,386.51	2	3,060.02	2	2,728.72	2	2,397.42
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,286.43	1/4	3,992.36	1/4	3,693.27	1/4	3,379.85	1/4	3,053.11	1/4	2,721.82	1/4	2,390.52
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,279.53	1/2	3,986.28	1/2	3,686.87	1/2	3,373.16	1/2	3,046.21	1/2	2,714.92	1/2	2,383.62
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,272.62	3/4	3,980.20	3/4	3,680.47	3/4	3,366.48	3/4	3,039.31	3/4	2,708.02	3/4	2,376.71
3		3		3		3	4,265.72	3	3,974.11	3	3,674.06	3	3,359.80	3	3,032.41	3	2,701.12	3	2,369.81
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,258.82	1/4	3,968.03	1/4	3,667.66	1/4	3,353.12	1/4	3,025.51	1/4	2,694.21	1/4	2,362.91
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,251.91	1/2	3,961.92	1/2	3,661.24	1/2	3,346.42	1/2	3,018.60	1/2	2,687.31	1/2	2,356.00
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,245.01	3/4	3,955.81	3/4	3,654.81	3/4	3,339.71	3/4	3,011.70	3/4	2,680.41	3/4	2,349.10
4		4		4		4	4,238.11	4	3,949.69	4	3,648.39	4	3,333.01	4	3,004.80	4	2,673.51	4	2,342.20
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,231.20	1/4	3,943.58	1/4	3,641.96	1/4	3,326.31	1/4	2,997.90	1/4	2,666.61	1/4	2,335.30
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,225.32	1/2	3,937.45	1/2	3,635.52	1/2	3,319.58	1/2	2,991.00	1/2	2,659.71	1/2	2,328.39
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,219.43	3/4	3,931.32	3/4	3,629.07	3/4	3,312.85	3/4	2,984.09	3/4	2,652.80	3/4	2,321.49
5		5		5		5	4,213.54	5	3,925.19	5	3,622.63	5	3,306.12	5	2,977.19	5	2,645.90	5	2,314.59
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,207.65	1/4	3,919.06	1/4	3,616.18	1/4	3,299.39	1/4	2,970.29	1/4	2,639.00	1/4	2,307.68
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,201.74	1/2	3,912.90	1/2	3,609.71	1/2	3,292.64	1/2	2,963.39	1/2	2,632.10	1/2	2,300.78
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,195.83	3/4	3,906.75	3/4	3,603.24	3/4	3,285.88	3/4	2,956.49	3/4	2,625.20	3/4	2,293.88
6		6		6		6	4,189.92	6	3,900.60	6	3,596.77	6	3,279.13	6	2,949.59	6	2,618.29	6	2,286.97
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,184.01	1/4	3,894.44	1/4	3,590.29	1/4	3,272.38	1/4	2,942.68	1/4	2,611.39	1/4	2,280.07
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,178.08	1/2	3,888.26	1/2	3,583.80	1/2	3,265.60	1/2	2,935.78	1/2	2,604.49	1/2	2,273.17
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,172.15	3/4	3,882.08	3/4	3,577.31	3/4	3,258.82	3/4	2,928.88	3/4	2,597.59	3/4	2,266.26
7		7		7		7	4,166.22	7	3,875.90	7	3,570.81	7	3,252.04	7	2,921.98	7	2,590.69	7	2,259.36
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,160.29	1/4	3,869.72	1/4	3,564.32	1/4	3,245.25	1/4	2,915.08	1/4	2,583.78	1/4	2,252.46
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,154.33	1/2	3,863.52	1/2	3,557.81	1/2	3,238.46	1/2	2,908.17	1/2	2,576.88	1/2	2,245.55
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,148.37	3/4	3,857.32	3/4	3,551.29	3/4	3,231.66	3/4	2,901.27	3/4	2,569.98	3/4	2,238.65
8		8		8		8	4,142.42	8	3,851.12	8	3,544.78	8	3,224.86	8	2,894.37	8	2,563.08	8	2,231.75
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,136.46	1/4	3,844.91	1/4	3,538.26	1/4	3,218.06	1/4	2,887.47	1/4	2,556.18	1/4	2,224.84
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,130.51	1/2	3,838.66	1/2	3,531.72	1/2	3,211.24	1/2	2,880.57	1/2	2,549.28	1/2	2,217.94
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,124.57	3/4	3,832.40	3/4	3,525.18	3/4	3,204.41	3/4	2,873.66	3/4	2,542.37	3/4	2,211.04
9		9		9		9	4,118.62	9	3,826.14	9	3,518.64	9	3,197.59	9	2,866.76	9	2,535.47	9	2,204.13
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,112.68	1/4	3,819.89	1/4	3,512.09	1/4	3,190.77	1/4	2,859.86	1/4	2,528.57	1/4	2,197.23
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,106.71	1/2	3,813.60	1/2	3,505.53	1/2	3,183.92	1/2	2,852.96	1/2	2,521.67	1/2	2,190.33
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,100.75	3/4	3,807.32	3/4	3,498.97	3/4	3,177.07	3/4	2,846.06	3/4	2,514.77	3/4	2,183.42
10		10		10		10	4,094.78	10	3,801.03	10	3,492.40	10	3,170.22	10	2,839.15	10	2,507.86	10	2,176.52
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,088.81	1/4	3,794.75	1/4	3,485.84	1/4	3,163.37	1/4	2,832.25	1/4	2,500.96	1/4	2,169.62
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,082.82	1/2	3,788.44	1/2	3,479.25	1/2	3,156.50	1/2	2,825.35	1/2	2,494.06	1/2	2,162.72
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,076.83	3/4	3,782.14	3/4	3,472.65	3/4	3,149.63	3/4	2,818.45	3/4	2,487.16	3/4	2,155.81
11		11		11		11	4,070.83	11	3,775.83	11	3,466.06	11	3,142.76	11	2,811.55	11	2,480.26	11	2,148.91
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,064.84	1/4	3,769.53	1/4	3,459.47	1/4	3,135.89	1/4	2,804.65	1/4	2,473.35	1/4	2,142.01
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,058.83	1/2	3,763.19	1/2	3,452.86	1/2	3,129.00	1/2	2,797.74	1/2	2,466.45	1/2	2,135.10
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,352.01	3/4	4,052.81	3/4	3,756.86	3/4	3,446.25	3/4	3,122.11	3/4	2,790.84	3/4	2,459.55

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 36'-09" FORWARD OF AFT BULKHEAD.

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 28021"

**1 STBD
ULLAGE TABLE**

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-10 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	2,121.30	0	1,789.94	0	1,458.59	0	1,127.24	0	803.10	0	500.44	0	220.62	0		0		0	
1/4	2,114.39	1/4	1,783.04	1/4	1,451.69	1/4	1,120.33	1/4	796.58	1/4	494.35	1/4	215.02	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,107.49	1/2	1,776.14	1/2	1,444.78	1/2	1,113.43	1/2	790.10	1/2	488.31	1/2	209.47	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,100.59	3/4	1,769.23	3/4	1,437.88	3/4	1,106.53	3/4	783.62	3/4	482.27	3/4	203.92	3/4	3/4	3/4	3/4	3/4	3/4
1	2,093.68	1	1,762.33	1	1,430.98	1	1,099.62	1	777.13	1	476.22	1	198.37	1		1		1	
1/4	2,086.78	1/4	1,755.43	1/4	1,424.07	1/4	1,092.72	1/4	770.65	1/4	470.18	1/4	192.81	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,079.88	1/2	1,748.52	1/2	1,417.17	1/2	1,085.82	1/2	764.21	1/2	464.17	1/2	187.30	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,072.97	3/4	1,741.62	3/4	1,410.27	3/4	1,078.92	3/4	757.77	3/4	458.17	3/4	181.79	3/4	3/4	3/4	3/4	3/4	3/4
2	2,066.07	2	1,734.72	2	1,403.36	2	1,072.01	2	751.33	2	452.16	2	176.27	2		2		2	
1/4	2,059.17	1/4	1,727.81	1/4	1,396.46	1/4	1,065.11	1/4	744.89	1/4	446.16	1/4	170.76	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,052.26	1/2	1,720.91	1/2	1,389.56	1/2	1,058.22	1/2	738.47	1/2	440.20	1/2	165.29	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,045.36	3/4	1,714.01	3/4	1,382.65	3/4	1,051.32	3/4	732.05	3/4	434.24	3/4	159.82	3/4	3/4	3/4	3/4	3/4	3/4
3	2,038.46	3	1,707.10	3	1,375.75	3	1,044.43	3	725.63	3	428.27	3	154.35	3		3		3	
1/4	2,031.55	1/4	1,700.20	1/4	1,368.85	1/4	1,037.53	1/4	719.22	1/4	422.31	1/4	148.88	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,024.65	1/2	1,693.30	1/2	1,361.94	1/2	1,030.66	1/2	712.83	1/2	416.39	1/2	143.45	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,017.75	3/4	1,686.39	3/4	1,355.04	3/4	1,023.78	3/4	706.45	3/4	410.47	3/4	138.01	3/4	3/4	3/4	3/4	3/4	3/4
4	2,010.84	4	1,679.49	4	1,348.14	4	1,016.90	4	700.06	4	404.54	4	132.58	4		4		4	
1/4	2,003.94	1/4	1,672.59	1/4	1,341.23	1/4	1,010.02	1/4	693.68	1/4	398.62	1/4	127.14	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,997.04	1/2	1,665.68	1/2	1,334.33	1/2	1,003.20	1/2	687.31	1/2	392.74	1/2	121.76	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,990.14	3/4	1,658.78	3/4	1,327.43	3/4	996.37	3/4	680.94	3/4	386.86	3/4	116.37	3/4	3/4	3/4	3/4	3/4	3/4
5	1,983.23	5	1,651.88	5	1,320.52	5	989.55	5	674.56	5	380.98	5	110.99	5		5		5	
1/4	1,976.33	1/4	1,644.98	1/4	1,313.62	1/4	982.72	1/4	668.19	1/4	375.10	1/4	105.60	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,969.43	1/2	1,638.07	1/2	1,306.72	1/2	975.94	1/2	661.86	1/2	369.26	1/2	100.25	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,962.52	3/4	1,631.17	3/4	1,299.82	3/4	969.15	3/4	655.53	3/4	363.42	3/4	94.90	3/4	3/4	3/4	3/4	3/4	3/4
6	1,955.62	6	1,624.27	6	1,292.91	6	962.36	6	649.20	6	357.58	6	89.55	6		6		6	
1/4	1,948.72	1/4	1,617.36	1/4	1,286.01	1/4	955.58	1/4	642.86	1/4	351.74	1/4	84.21	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,941.81	1/2	1,610.46	1/2	1,279.11	1/2	948.85	1/2	636.57	1/2	345.94	1/2	78.90	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,934.91	3/4	1,603.56	3/4	1,272.20	3/4	942.13	3/4	630.28	3/4	340.14	3/4	73.60	3/4	3/4	3/4	3/4	3/4	3/4
7	1,928.01	7	1,596.65	7	1,265.30	7	935.40	7	624.00	7	334.35	7	68.30	7		7		7	
1/4	1,921.10	1/4	1,589.75	1/4	1,258.40	1/4	928.67	1/4	617.71	1/4	328.55	1/4	62.99	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,914.20	1/2	1,582.85	1/2	1,251.49	1/2	921.98	1/2	611.46	1/2	322.79	1/2	57.73	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,907.30	3/4	1,575.94	3/4	1,244.59	3/4	915.30	3/4	605.21	3/4	317.03	3/4	52.46	3/4	3/4	3/4	3/4	3/4	3/4
8	1,900.39	8	1,569.04	8	1,237.69	8	908.61	8	598.96	8	311.27	8	47.20	8		8		8	
1/4	1,893.49	1/4	1,562.14	1/4	1,230.78	1/4	901.92	1/4	592.71	1/4	305.51	1/4	41.93	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,886.59	1/2	1,555.23	1/2	1,223.88	1/2	895.28	1/2	586.50	1/2	299.80	1/2	37.57	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,879.68	3/4	1,548.33	3/4	1,216.98	3/4	888.63	3/4	580.29	3/4	294.08	3/4	33.22	3/4	3/4	3/4	3/4	3/4	3/4
9	1,872.78	9	1,541.43	9	1,210.07	9	881.99	9	574.08	9	288.36	9	28.86	9		9		9	
1/4	1,865.88	1/4	1,534.52	1/4	1,203.17	1/4	875.34	1/4	567.87	1/4	282.65	1/4	24.50	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,858.97	1/2	1,527.62	1/2	1,196.27	1/2	868.74	1/2	561.71	1/2	276.97	1/2	21.91	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,852.07	3/4	1,520.72	3/4	1,189.36	3/4	862.13	3/4	555.54	3/4	271.29	3/4	19.32	3/4	3/4	3/4	3/4	3/4	3/4
10	1,845.17	10	1,513.81	10	1,182.46	10	855.53	10	549.37	10	265.62	10	16.72	10		10		10	
1/4	1,838.26	1/4	1,506.91	1/4	1,175.56	1/4	848.92	1/4	543.20	1/4	259.94	1/4	14.13	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,831.36	1/2	1,500.01	1/2	1,168.65	1/2	842.36	1/2	537.08	1/2	254.30	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,824.46	3/4	1,493.10	3/4	1,161.75	3/4	835.80	3/4	530.95	3/4	248.67	3/4		3/4	3/4	3/4	3/4	3/4	3/4
11	1,817.56	11	1,486.20	11	1,154.85	11	829.24	11	524.82	11	243.04	11		11		11		11	
1/4	1,810.65	1/4	1,479.30	1/4	1,147.94	1/4	822.67	1/4	518.70	1/4	237.40	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,803.75	1/2	1,472.40	1/2	1,141.04	1/2	816.15	1/2	512.61	1/2	231.81	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,796.85	3/4	1,465.49	3/4	1,134.14	3/4	809.63	3/4	506.53	3/4	226.21	3/4		3/4	3/4	3/4	3/4	3/4	3/4

STRAPPED: 04/17/2002 CL - SW
VERIFIED: 06/01/2023

CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2023

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
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BARGE "KIRBY 28021"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-10 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	0	0	0	5,275.11	0	4,924.74	0	4,578.85	0	4,214.71	0	3,834.71	0	3,446.35	0	3,057.96	
1/4	1/4	1/4	1/4	1/4	1/4	5,269.04	1/4	4,917.72	1/4	4,571.42	1/4	4,206.96	1/4	3,826.63	1/4	3,438.26	1/4	3,049.87	
1/2	1/2	1/2	1/2	1/2	1/2	5,262.97	1/2	4,910.70	1/2	4,563.99	1/2	4,199.21	1/2	3,818.55	1/2	3,430.17	1/2	3,041.78	
3/4	3/4	3/4	3/4	3/4	3/4	5,254.87	3/4	4,903.64	3/4	4,556.55	3/4	4,191.43	3/4	3,810.46	3/4	3,422.08	3/4	3,033.69	
1	1	1	1	1	1	5,246.78	1	4,896.59	1	4,549.10	1	4,183.65	1	3,802.37	1	3,413.98	1	3,025.59	
1/4	1/4	1/4	1/4	1/4	1/4	5,238.69	1/4	4,889.54	1/4	4,541.65	1/4	4,175.88	1/4	3,794.28	1/4	3,405.89	1/4	3,017.50	
1/2	1/2	1/2	1/2	1/2	1/2	5,230.59	1/2	4,882.48	1/2	4,534.20	1/2	4,168.10	1/2	3,786.19	1/2	3,397.80	1/2	3,009.40	
3/4	3/4	3/4	3/4	3/4	3/4	5,222.50	3/4	4,875.41	3/4	4,526.73	3/4	4,160.29	3/4	3,778.10	3/4	3,389.71	3/4	3,001.31	
2	2	2	2	2	2	5,214.40	2	4,868.33	2	4,519.25	2	4,152.48	2	3,770.01	2	3,381.62	2	2,993.22	
1/4	1/4	1/4	1/4	1/4	1/4	5,206.31	1/4	4,861.26	1/4	4,511.78	1/4	4,144.67	1/4	3,761.91	1/4	3,373.53	1/4	2,985.12	
1/2	1/2	1/2	1/2	1/2	1/2	5,198.22	1/2	4,854.18	1/2	4,504.30	1/2	4,136.86	1/2	3,753.82	1/2	3,365.44	1/2	2,977.03	
3/4	3/4	3/4	3/4	3/4	3/4	5,190.12	3/4	4,847.08	3/4	4,496.80	3/4	4,129.03	3/4	3,745.73	3/4	3,357.34	3/4	2,968.94	
3	3	3	3	3	3	5,182.03	3	4,839.98	3	4,489.29	3	4,121.20	3	3,737.64	3	3,349.25	3	2,960.84	
1/4	1/4	1/4	1/4	1/4	1/4	5,173.94	1/4	4,832.88	1/4	4,481.78	1/4	4,113.37	1/4	3,729.55	1/4	3,341.16	1/4	2,952.75	
1/2	1/2	1/2	1/2	1/2	1/2	5,165.84	1/2	4,825.78	1/2	4,474.28	1/2	4,105.53	1/2	3,721.46	1/2	3,333.07	1/2	2,944.65	
3/4	3/4	3/4	3/4	3/4	3/4	5,157.75	3/4	4,818.65	3/4	4,466.75	3/4	4,097.67	3/4	3,713.37	3/4	3,324.98	3/4	2,936.56	
4	4	4	4	4	4	5,149.65	4	4,811.52	4	4,459.22	4	4,089.82	4	3,705.28	4	3,316.89	4	2,928.47	
1/4	1/4	1/4	1/4	1/4	1/4	5,141.56	1/4	4,804.38	1/4	4,451.68	1/4	4,081.96	1/4	3,697.18	1/4	3,308.80	1/4	2,920.37	
1/2	1/2	1/2	1/2	1/2	1/2	5,133.47	1/2	4,797.25	1/2	4,444.15	1/2	4,074.10	1/2	3,689.09	1/2	3,300.71	1/2	2,912.28	
3/4	3/4	3/4	3/4	3/4	3/4	5,126.56	3/4	4,790.09	3/4	4,436.60	3/4	4,066.21	3/4	3,681.00	3/4	3,292.61	3/4	2,904.18	
5	5	5	5	5	5	5,119.66	5	4,782.93	5	4,429.04	5	4,058.32	5	3,672.91	5	3,284.52	5	2,896.09	
1/4	1/4	1/4	1/4	1/4	1/4	5,112.75	1/4	4,775.78	1/4	4,421.49	1/4	4,050.43	1/4	3,664.82	1/4	3,276.43	1/4	2,888.00	
1/2	1/2	1/2	1/2	1/2	1/2	5,105.85	1/2	4,768.62	1/2	4,413.93	1/2	4,042.54	1/2	3,656.73	1/2	3,268.34	1/2	2,879.90	
3/4	3/4	3/4	3/4	3/4	3/4	5,098.92	3/4	4,761.44	3/4	4,406.34	3/4	4,034.62	3/4	3,648.64	3/4	3,260.25	3/4	2,871.81	
6	6	6	6	6	6	5,091.99	6	4,754.26	6	4,398.76	6	4,026.71	6	3,640.54	6	3,252.16	6	2,863.71	
1/4	1/4	1/4	1/4	1/4	1/4	5,085.06	1/4	4,747.07	1/4	4,391.17	1/4	4,018.80	1/4	3,632.45	1/4	3,244.07	1/4	2,855.62	
1/2	1/2	1/2	1/2	1/2	1/2	5,078.13	1/2	4,739.89	1/2	4,383.58	1/2	4,010.88	1/2	3,624.36	1/2	3,235.97	1/2	2,847.53	
3/4	3/4	3/4	3/4	3/4	3/4	5,071.18	3/4	4,732.68	3/4	4,375.97	3/4	4,002.93	3/4	3,616.27	3/4	3,227.88	3/4	2,839.43	
7	7	7	7	7	7	5,064.23	7	4,725.46	7	4,368.35	7	3,994.98	7	3,608.18	7	3,219.79	7	2,831.34	
1/4	1/4	1/4	1/4	1/4	1/4	5,057.27	1/4	4,718.25	1/4	4,360.74	1/4	3,987.03	1/4	3,600.09	1/4	3,211.70	1/4	2,823.25	
1/2	1/2	1/2	1/2	1/2	1/2	5,050.32	1/2	4,711.03	1/2	4,353.13	1/2	3,979.08	1/2	3,592.00	1/2	3,203.61	1/2	2,815.15	
3/4	3/4	3/4	3/4	3/4	3/4	5,043.33	3/4	4,703.79	3/4	4,345.49	3/4	3,971.11	3/4	3,583.90	3/4	3,195.52	3/4	2,807.06	
8	8	8	8	8	8	5,036.35	8	4,696.56	8	4,337.85	8	3,963.14	8	3,575.81	8	3,187.43	8	2,798.96	
1/4	1/4	1/4	1/4	1/4	1/4	5,029.36	1/4	4,689.32	1/4	4,330.22	1/4	3,955.17	1/4	3,567.72	1/4	3,179.33	1/4	2,790.87	
1/2	1/2	1/2	1/2	1/2	1/2	5,022.38	1/2	4,682.08	1/2	4,322.58	1/2	3,947.19	1/2	3,559.63	1/2	3,171.24	1/2	2,782.78	
3/4	3/4	3/4	3/4	3/4	3/4	5,015.44	3/4	4,674.74	3/4	4,314.91	3/4	3,939.20	3/4	3,551.54	3/4	3,163.15	3/4	2,774.68	
9	9	9	9	9	9	5,008.50	9	4,667.41	9	4,307.24	9	3,931.20	9	3,543.45	9	3,155.06	9	2,766.59	
1/4	1/4	1/4	1/4	1/4	1/4	5,001.56	1/4	4,660.07	1/4	4,299.57	1/4	3,923.20	1/4	3,535.36	1/4	3,146.97	1/4	2,758.49	
1/2	1/2	1/2	1/2	1/2	1/2	4,994.62	1/2	4,652.74	1/2	4,291.90	1/2	3,915.21	1/2	3,527.26	1/2	3,138.88	1/2	2,750.40	
3/4	3/4	3/4	3/4	3/4	3/4	4,987.66	3/4	4,645.37	3/4	4,284.21	3/4	3,907.18	3/4	3,519.17	3/4	3,130.79	3/4	2,742.31	
10	10	10	10	10	10	4,980.69	10	4,638.00	10	4,276.51	10	3,899.14	10	3,511.08	10	3,122.69	10	2,734.21	
1/4	1/4	1/4	1/4	1/4	1/4	4,973.73	1/4	4,630.64	1/4	4,268.82	1/4	3,891.11	1/4	3,502.99	1/4	3,114.60	1/4	2,726.12	
1/2	1/2	1/2	1/2	1/2	1/2	4,966.76	1/2	4,623.27	1/2	4,261.12	1/2	3,883.08	1/2	3,494.90	1/2	3,106.51	1/2	2,718.02	
3/4	3/4	3/4	3/4	3/4	3/4	4,959.77	3/4	4,615.88	3/4	4,253.40	3/4	3,875.03	3/4	3,486.81	3/4	3,098.42	3/4	2,709.93	
11	11	11	11	11	11	4,952.77	11	4,608.48	11	4,245.67	11	3,866.98	11	3,478.72	11	3,090.33	11	2,701.84	
1/4	1/4	1/4	1/4	1/4	1/4	4,945.78	1/4	4,601.09	1/4	4,237.94	1/4	3,858.92	1/4	3,470.62	1/4	3,082.24	1/4	2,693.74	
1/2	1/2	1/2	1/2	1/2	1/2	4,938.78	1/2	4,593.70	1/2	4,230.21	1/2	3,850.87	1/2	3,462.53	1/2	3,074.15	1/2	2,685.65	
3/4	3/4	3/4	3/4	3/4	3/4	4,931.76	3/4	4,586.27	3/4	4,222.46	3/4	3,842.79	3/4	3,454.44	3/4	3,066.05	3/4	2,677.55	

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-06" FORWARD OF AFT BULKHEAD.

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 28021"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-10 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	2,669.46	0	2,280.95	0	1,892.45	0	1,503.94	0	1,115.43	0	727.41	0	339.51	0		0		0	
1/4	2,661.37	1/4	2,272.86	1/4	1,884.35	1/4	1,495.85	1/4	1,107.34	1/4	719.34	1/4	331.43	1/4	1/4		1/4		1/4
1/2	2,653.27	1/2	2,264.77	1/2	1,876.26	1/2	1,487.75	1/2	1,099.24	1/2	711.28	1/2	323.34	1/2	1/2		1/2		1/2
3/4	2,645.18	3/4	2,256.67	3/4	1,868.16	3/4	1,479.66	3/4	1,091.15	3/4	703.21	3/4	315.26	3/4	3/4		3/4		3/4
1	2,637.09	1	2,248.58	1	1,860.07	1	1,471.56	1	1,083.06	1	695.14	1	307.17	1		1		1	
1/4	2,628.99	1/4	2,240.48	1/4	1,851.98	1/4	1,463.47	1/4	1,074.96	1/4	687.07	1/4	299.09	1/4	1/4		1/4		1/4
1/2	2,620.90	1/2	2,232.39	1/2	1,843.88	1/2	1,455.38	1/2	1,066.87	1/2	679.00	1/2	291.00	1/2	1/2		1/2		1/2
3/4	2,612.80	3/4	2,224.30	3/4	1,835.79	3/4	1,447.28	3/4	1,058.77	3/4	670.93	3/4	282.92	3/4	3/4		3/4		3/4
2	2,604.71	2	2,216.20	2	1,827.70	2	1,439.19	2	1,050.68	2	662.86	2	274.83	2		2		2	
1/4	2,596.62	1/4	2,208.11	1/4	1,819.60	1/4	1,431.09	1/4	1,042.59	1/4	654.79	1/4	266.75	1/4	1/4		1/4		1/4
1/2	2,588.52	1/2	2,200.01	1/2	1,811.51	1/2	1,423.00	1/2	1,034.49	1/2	646.72	1/2	258.66	1/2	1/2		1/2		1/2
3/4	2,580.43	3/4	2,191.92	3/4	1,803.41	3/4	1,414.91	3/4	1,026.40	3/4	638.64	3/4	250.58	3/4	3/4		3/4		3/4
3	2,572.33	3	2,183.83	3	1,795.32	3	1,406.81	3	1,018.31	3	630.56	3	242.49	3		3		3	
1/4	2,564.24	1/4	2,175.73	1/4	1,787.23	1/4	1,398.72	1/4	1,010.21	1/4	622.49	1/4	234.40	1/4	1/4		1/4		1/4
1/2	2,556.15	1/2	2,167.64	1/2	1,779.13	1/2	1,390.62	1/2	1,002.12	1/2	614.41	1/2	226.32	1/2	1/2		1/2		1/2
3/4	2,548.05	3/4	2,159.55	3/4	1,771.04	3/4	1,382.53	3/4	994.02	3/4	606.32	3/4	218.23	3/4	3/4		3/4		3/4
4	2,539.96	4	2,151.45	4	1,762.94	4	1,374.44	4	985.93	4	598.24	4	210.15	4		4		4	
1/4	2,531.86	1/4	2,143.36	1/4	1,754.85	1/4	1,366.34	1/4	977.84	1/4	590.15	1/4	202.06	1/4	1/4		1/4		1/4
1/2	2,523.77	1/2	2,135.26	1/2	1,746.76	1/2	1,358.25	1/2	969.74	1/2	582.07	1/2	193.98	1/2	1/2		1/2		1/2
3/4	2,515.68	3/4	2,127.17	3/4	1,738.66	3/4	1,350.16	3/4	961.65	3/4	573.98	3/4	185.89	3/4	3/4		3/4		3/4
5	2,507.58	5	2,119.08	5	1,730.57	5	1,342.06	5	953.55	5	565.90	5	177.81	5		5		5	
1/4	2,499.49	1/4	2,110.98	1/4	1,722.47	1/4	1,333.97	1/4	945.46	1/4	557.81	1/4	169.72	1/4	1/4		1/4		1/4
1/2	2,491.40	1/2	2,102.89	1/2	1,714.38	1/2	1,325.87	1/2	937.37	1/2	549.73	1/2	161.64	1/2	1/2		1/2		1/2
3/4	2,483.30	3/4	2,094.79	3/4	1,706.29	3/4	1,317.78	3/4	929.27	3/4	541.64	3/4	153.55	3/4	3/4		3/4		3/4
6	2,475.21	6	2,086.70	6	1,698.19	6	1,309.69	6	921.18	6	533.56	6	145.47	6		6		6	
1/4	2,467.11	1/4	2,078.61	1/4	1,690.10	1/4	1,301.59	1/4	913.08	1/4	525.47	1/4	137.38	1/4	1/4		1/4		1/4
1/2	2,459.02	1/2	2,070.51	1/2	1,682.01	1/2	1,293.50	1/2	904.99	1/2	517.39	1/2	129.30	1/2	1/2		1/2		1/2
3/4	2,450.93	3/4	2,062.42	3/4	1,673.91	3/4	1,285.40	3/4	896.91	3/4	509.30	3/4	121.21	3/4	3/4		3/4		3/4
7	2,442.83	7	2,054.32	7	1,665.82	7	1,277.31	7	888.83	7	501.22	7	113.13	7		7		7	
1/4	2,434.74	1/4	2,046.23	1/4	1,657.72	1/4	1,269.22	1/4	880.75	1/4	493.13	1/4	105.04	1/4	1/4		1/4		1/4
1/2	2,426.64	1/2	2,038.14	1/2	1,649.63	1/2	1,261.12	1/2	872.66	1/2	485.05	1/2	96.96	1/2	1/2		1/2		1/2
3/4	2,418.55	3/4	2,030.04	3/4	1,641.54	3/4	1,253.03	3/4	864.59	3/4	476.96	3/4	88.87	3/4	3/4		3/4		3/4
8	2,410.46	8	2,021.95	8	1,633.44	8	1,244.93	8	856.52	8	468.88	8	80.79	8		8		8	
1/4	2,402.36	1/4	2,013.86	1/4	1,625.35	1/4	1,236.84	1/4	848.45	1/4	460.79	1/4	72.70	1/4	1/4		1/4		1/4
1/2	2,394.27	1/2	2,005.76	1/2	1,617.25	1/2	1,228.75	1/2	840.39	1/2	452.71	1/2	64.62	1/2	1/2		1/2		1/2
3/4	2,386.17	3/4	1,997.67	3/4	1,609.16	3/4	1,220.65	3/4	832.32	3/4	444.62	3/4	57.54	3/4	3/4		3/4		3/4
9	2,378.08	9	1,989.57	9	1,601.07	9	1,212.56	9	824.25	9	436.53	9	50.47	9		9		9	
1/4	2,369.99	1/4	1,981.48	1/4	1,592.97	1/4	1,204.47	1/4	816.18	1/4	428.45	1/4	43.39	1/4	1/4		1/4		1/4
1/2	2,361.89	1/2	1,973.39	1/2	1,584.88	1/2	1,196.37	1/2	808.11	1/2	420.36	1/2	36.32	1/2	1/2		1/2		1/2
3/4	2,353.80	3/4	1,965.29	3/4	1,576.78	3/4	1,188.28	3/4	800.04	3/4	412.28	3/4	31.27	3/4	3/4		3/4		3/4
10	2,345.70	10	1,957.20	10	1,568.69	10	1,180.18	10	791.97	10	404.19	10	26.22	10		10		10	
1/4	2,337.61	1/4	1,949.10	1/4	1,560.60	1/4	1,172.09	1/4	783.90	1/4	396.11	1/4	21.17	1/4	1/4		1/4		1/4
1/2	2,329.52	1/2	1,941.01	1/2	1,552.50	1/2	1,164.00	1/2	775.83	1/2	388.02	1/2	16.12	1/2	1/2		1/2		1/2
3/4	2,321.42	3/4	1,932.92	3/4	1,544.41	3/4	1,155.90	3/4	767.76	3/4	379.94	3/4		3/4	3/4		3/4		3/4
11	2,313.33	11	1,924.82	11	1,536.31	11	1,147.81	11	759.69	11	371.85	11		11		11		11	
1/4	2,305.24	1/4	1,916.73	1/4	1,528.22	1/4	1,139.71	1/4	751.62	1/4	363.77	1/4		1/4	1/4		1/4		1/4
1/2	2,297.14	1/2	1,908.63	1/2	1,520.13	1/2	1,131.62	1/2	743.55	1/2	355.68	1/2		1/2	1/2		1/2		1/2
3/4	2,289.05	3/4	1,900.54	3/4	1,512.03	3/4	1,123.53	3/4	735.48	3/4	347.60	3/4		3/4	3/4		3/4		3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/17/2002 CL - SW
VERIFIED: 06/01/2023

CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2023

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



BARGE "KIRBY 28021"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-10 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
0	0	0	0	0	0	5,262.82	0	4,912.33	0	4,566.32	0	4,202.07	0	3,821.95	0	3,433.47	0	3,044.96	
1/4	1/4	1/4	1/4	1/4	1/4	5,256.75	1/4	4,905.31	1/4	4,558.90	1/4	4,194.31	1/4	3,813.87	1/4	3,425.37	1/4	3,036.86	
1/2	1/2	1/2	1/2	1/2	1/2	5,250.67	1/2	4,898.29	1/2	4,551.47	1/2	4,186.56	1/2	3,805.79	1/2	3,417.28	1/2	3,028.77	
3/4	3/4	3/4	3/4	3/4	3/4	5,242.58	3/4	4,891.23	3/4	4,544.02	3/4	4,178.78	3/4	3,797.70	3/4	3,409.19	3/4	3,020.67	
1	1	1	1	1	1	5,234.48	1	4,884.17	1	4,536.56	1	4,171.00	1	3,789.60	1	3,401.09	1	3,012.58	
1/4	1/4	1/4	1/4	1/4	1/4	5,226.38	1/4	4,877.12	1/4	4,529.11	1/4	4,163.22	1/4	3,781.51	1/4	3,393.00	1/4	3,004.48	
1/2	1/2	1/2	1/2	1/2	1/2	5,218.29	1/2	4,870.06	1/2	4,521.66	1/2	4,155.45	1/2	3,773.42	1/2	3,384.90	1/2	2,996.38	
3/4	3/4	3/4	3/4	3/4	3/4	5,210.19	3/4	4,862.99	3/4	4,514.19	3/4	4,147.63	3/4	3,765.32	3/4	3,376.81	3/4	2,988.29	
2	2	2	2	2	2	5,202.10	2	4,855.91	2	4,506.71	2	4,139.82	2	3,757.23	2	3,368.72	2	2,980.19	
1/4	1/4	1/4	1/4	1/4	1/4	5,194.00	1/4	4,848.83	1/4	4,499.23	1/4	4,132.01	1/4	3,749.13	1/4	3,360.62	1/4	2,972.09	
1/2	1/2	1/2	1/2	1/2	1/2	5,185.90	1/2	4,841.75	1/2	4,491.76	1/2	4,124.20	1/2	3,741.04	1/2	3,352.53	1/2	2,964.00	
3/4	3/4	3/4	3/4	3/4	3/4	5,177.81	3/4	4,834.65	3/4	4,484.25	3/4	4,116.36	3/4	3,732.95	3/4	3,344.43	3/4	2,955.90	
3	3	3	3	3	3	5,169.71	3	4,827.55	3	4,476.74	3	4,108.53	3	3,724.85	3	3,336.34	3	2,947.81	
1/4	1/4	1/4	1/4	1/4	1/4	5,161.61	1/4	4,820.44	1/4	4,469.23	1/4	4,100.69	1/4	3,716.76	1/4	3,328.25	1/4	2,939.71	
1/2	1/2	1/2	1/2	1/2	1/2	5,153.52	1/2	4,813.34	1/2	4,461.72	1/2	4,092.86	1/2	3,708.66	1/2	3,320.15	1/2	2,931.61	
3/4	3/4	3/4	3/4	3/4	3/4	5,145.42	3/4	4,806.21	3/4	4,454.19	3/4	4,085.00	3/4	3,700.57	3/4	3,312.06	3/4	2,923.52	
4	4	4	4	4	4	5,137.33	4	4,799.07	4	4,446.65	4	4,077.13	4	3,692.48	4	3,303.96	4	2,915.42	
1/4	1/4	1/4	1/4	1/4	1/4	5,129.23	1/4	4,791.93	1/4	4,439.12	1/4	4,069.27	1/4	3,684.38	1/4	3,295.87	1/4	2,907.32	
1/2	1/2	1/2	1/2	1/2	1/2	5,121.13	1/2	4,784.80	1/2	4,431.59	1/2	4,061.41	1/2	3,676.29	1/2	3,287.78	1/2	2,899.23	
3/4	3/4	3/4	3/4	3/4	3/4	5,114.23	3/4	4,777.64	3/4	4,424.03	3/4	4,053.52	3/4	3,668.19	3/4	3,279.68	3/4	2,891.13	
5	5	5	5	5	5	5,107.32	5	4,770.48	5	4,416.47	5	4,045.63	5	3,660.10	5	3,271.59	5	2,883.03	
1/4	1/4	1/4	1/4	1/4	1/4	5,100.41	1/4	4,763.32	1/4	4,408.91	1/4	4,037.74	1/4	3,652.01	1/4	3,263.49	1/4	2,874.94	
1/2	1/2	1/2	1/2	1/2	1/2	5,093.50	1/2	4,756.16	1/2	4,401.35	1/2	4,029.84	1/2	3,643.91	1/2	3,255.40	1/2	2,866.84	
3/4	3/4	3/4	3/4	3/4	3/4	5,086.57	3/4	4,748.98	3/4	4,393.76	3/4	4,021.93	3/4	3,635.82	3/4	3,247.31	3/4	2,858.75	
6	6	6	6	6	6	5,079.64	6	4,741.79	6	4,386.17	6	4,014.01	6	3,627.72	6	3,239.21	6	2,850.65	
1/4	1/4	1/4	1/4	1/4	1/4	5,072.71	1/4	4,734.61	1/4	4,378.58	1/4	4,006.09	1/4	3,619.63	1/4	3,231.12	1/4	2,842.55	
1/2	1/2	1/2	1/2	1/2	1/2	5,065.78	1/2	4,727.42	1/2	4,370.99	1/2	3,998.17	1/2	3,611.54	1/2	3,223.02	1/2	2,834.46	
3/4	3/4	3/4	3/4	3/4	3/4	5,058.82	3/4	4,720.20	3/4	4,363.38	3/4	3,990.22	3/4	3,603.44	3/4	3,214.93	3/4	2,826.36	
7	7	7	7	7	7	5,051.87	7	4,712.99	7	4,355.76	7	3,982.27	7	3,595.35	7	3,206.84	7	2,818.26	
1/4	1/4	1/4	1/4	1/4	1/4	5,044.91	1/4	4,705.77	1/4	4,348.15	1/4	3,974.32	1/4	3,587.25	1/4	3,198.74	1/4	2,810.17	
1/2	1/2	1/2	1/2	1/2	1/2	5,037.96	1/2	4,698.55	1/2	4,340.53	1/2	3,966.36	1/2	3,579.16	1/2	3,190.65	1/2	2,802.07	
3/4	3/4	3/4	3/4	3/4	3/4	5,030.97	3/4	4,691.31	3/4	4,332.89	3/4	3,958.39	3/4	3,571.07	3/4	3,182.55	3/4	2,793.98	
8	8	8	8	8	8	5,023.98	8	4,684.07	8	4,325.25	8	3,950.42	8	3,562.97	8	3,174.46	8	2,785.88	
1/4	1/4	1/4	1/4	1/4	1/4	5,016.99	1/4	4,676.83	1/4	4,317.61	1/4	3,942.44	1/4	3,554.88	1/4	3,166.37	1/4	2,777.78	
1/2	1/2	1/2	1/2	1/2	1/2	5,010.01	1/2	4,669.59	1/2	4,309.97	1/2	3,934.47	1/2	3,546.78	1/2	3,158.27	1/2	2,769.69	
3/4	3/4	3/4	3/4	3/4	3/4	5,003.06	3/4	4,662.25	3/4	4,302.30	3/4	3,926.47	3/4	3,538.69	3/4	3,150.18	3/4	2,761.59	
9	9	9	9	9	9	4,996.12	9	4,654.91	9	4,294.63	9	3,918.47	9	3,530.60	9	3,142.08	9	2,753.49	
1/4	1/4	1/4	1/4	1/4	1/4	4,989.18	1/4	4,647.57	1/4	4,286.96	1/4	3,910.47	1/4	3,522.50	1/4	3,133.99	1/4	2,745.40	
1/2	1/2	1/2	1/2	1/2	1/2	4,982.24	1/2	4,640.24	1/2	4,279.29	1/2	3,902.47	1/2	3,514.41	1/2	3,125.90	1/2	2,737.30	
3/4	3/4	3/4	3/4	3/4	3/4	4,975.27	3/4	4,632.87	3/4	4,271.59	3/4	3,894.44	3/4	3,506.31	3/4	3,117.80	3/4	2,729.21	
10	10	10	10	10	10	4,968.30	10	4,625.50	10	4,263.89	10	3,886.41	10	3,498.22	10	3,109.71	10	2,721.11	
1/4	1/4	1/4	1/4	1/4	1/4	4,961.34	1/4	4,618.13	1/4	4,256.20	1/4	3,878.37	1/4	3,490.13	1/4	3,101.61	1/4	2,713.01	
1/2	1/2	1/2	1/2	1/2	1/2	4,954.37	1/2	4,610.76	1/2	4,248.50	1/2	3,870.34	1/2	3,482.03	1/2	3,093.52	1/2	2,704.92	
3/4	3/4	3/4	3/4	3/4	3/4	4,947.37	3/4	4,603.37	3/4	4,240.77	3/4	3,862.28	3/4	3,473.94	3/4	3,085.43	3/4	2,696.82	
11	11	11	11	11	11	4,940.37	11	4,595.97	11	4,233.04	11	3,854.23	11	3,465.84	11	3,077.33	11	2,688.72	
1/4	1/4	1/4	1/4	1/4	1/4	4,933.38	1/4	4,588.58	1/4	4,225.30	1/4	3,846.17	1/4	3,457.75	1/4	3,069.24	1/4	2,680.63	
1/2	1/2	1/2	1/2	1/2	1/2	4,926.38	1/2	4,581.18	1/2	4,217.57	1/2	3,838.12	1/2	3,449.66	1/2	3,061.14	1/2	2,672.53	
3/4	3/4	3/4	3/4	3/4	3/4	4,919.36	3/4	4,573.75	3/4	4,209.82	3/4	3,830.03	3/4	3,441.56	3/4	3,053.05	3/4	2,664.43	

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-06" FORWARD OF AFT BULKHEAD.

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 28021"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-10 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	2,656.34	0	2,267.72	0	1,879.09	0	1,490.47	0	1,101.85	0	722.39	0	340.32	0		0		0	
1/4	2,648.24	1/4	2,259.62	1/4	1,871.00	1/4	1,482.37	1/4	1,093.75	1/4	714.63	1/4	332.23	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,640.15	1/2	2,251.52	1/2	1,862.90	1/2	1,474.28	1/2	1,085.66	1/2	706.87	1/2	324.13	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,632.05	3/4	2,243.43	3/4	1,854.80	3/4	1,466.18	3/4	1,077.56	3/4	699.11	3/4	316.04	3/4	3/4	3/4	3/4	3/4	3/4
1	2,623.95	1	2,235.33	1	1,846.71	1	1,458.09	1	1,069.46	1	691.35	1	307.94	1	1	1	1	1	1
1/4	2,615.86	1/4	2,227.23	1/4	1,838.61	1/4	1,449.99	1/4	1,061.37	1/4	683.59	1/4	299.85	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,607.76	1/2	2,219.14	1/2	1,830.52	1/2	1,441.89	1/2	1,053.27	1/2	675.83	1/2	291.75	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,599.66	3/4	2,211.04	3/4	1,822.42	3/4	1,433.80	3/4	1,045.17	3/4	668.07	3/4	283.66	3/4	3/4	3/4	3/4	3/4	3/4
2	2,591.57	2	2,202.95	2	1,814.32	2	1,425.70	2	1,037.08	2	660.31	2	275.56	2	2	2	2	2	2
1/4	2,583.47	1/4	2,194.85	1/4	1,806.23	1/4	1,417.60	1/4	1,028.98	1/4	652.55	1/4	267.47	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,575.38	1/2	2,186.75	1/2	1,798.13	1/2	1,409.51	1/2	1,020.89	1/2	644.79	1/2	259.37	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,567.28	3/4	2,178.66	3/4	1,790.03	3/4	1,401.41	3/4	1,012.79	3/4	637.02	3/4	251.28	3/4	3/4	3/4	3/4	3/4	3/4
3	2,559.18	3	2,170.56	3	1,781.94	3	1,393.32	3	1,004.69	3	629.25	3	243.18	3	3	3	3	3	3
1/4	2,551.09	1/4	2,162.46	1/4	1,773.84	1/4	1,385.22	1/4	996.60	1/4	621.48	1/4	235.08	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,542.99	1/2	2,154.37	1/2	1,765.75	1/2	1,377.12	1/2	988.50	1/2	613.71	1/2	226.99	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,534.89	3/4	2,146.27	3/4	1,757.65	3/4	1,369.03	3/4	980.40	3/4	605.92	3/4	218.89	3/4	3/4	3/4	3/4	3/4	3/4
4	2,526.80	4	2,138.18	4	1,749.55	4	1,360.93	4	972.31	4	598.14	4	210.80	4	4	4	4	4	4
1/4	2,518.70	1/4	2,130.08	1/4	1,741.46	1/4	1,352.83	1/4	964.21	1/4	590.35	1/4	202.70	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,510.60	1/2	2,121.98	1/2	1,733.36	1/2	1,344.74	1/2	956.12	1/2	582.57	1/2	194.61	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,502.51	3/4	2,113.89	3/4	1,725.26	3/4	1,336.64	3/4	948.17	3/4	574.63	3/4	186.51	3/4	3/4	3/4	3/4	3/4	3/4
5	2,494.41	5	2,105.79	5	1,717.17	5	1,328.55	5	940.23	5	566.69	5	178.42	5	5	5	5	5	5
1/4	2,486.32	1/4	2,097.69	1/4	1,709.07	1/4	1,320.45	1/4	932.28	1/4	558.75	1/4	170.32	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,478.22	1/2	2,089.60	1/2	1,700.97	1/2	1,312.35	1/2	924.34	1/2	550.81	1/2	162.23	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,470.12	3/4	2,081.50	3/4	1,692.88	3/4	1,304.26	3/4	916.55	3/4	542.71	3/4	154.13	3/4	3/4	3/4	3/4	3/4	3/4
6	2,462.03	6	2,073.40	6	1,684.78	6	1,296.16	6	908.77	6	534.61	6	146.04	6	6	6	6	6	6
1/4	2,453.93	1/4	2,065.31	1/4	1,676.69	1/4	1,288.06	1/4	900.98	1/4	526.52	1/4	137.94	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,445.83	1/2	2,057.21	1/2	1,668.59	1/2	1,279.97	1/2	893.19	1/2	518.42	1/2	129.84	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,437.74	3/4	2,049.12	3/4	1,660.49	3/4	1,271.87	3/4	885.42	3/4	510.33	3/4	121.75	3/4	3/4	3/4	3/4	3/4	3/4
7	2,429.64	7	2,041.02	7	1,652.40	7	1,263.77	7	877.65	7	502.23	7	113.65	7	7	7	7	7	7
1/4	2,421.55	1/4	2,032.92	1/4	1,644.30	1/4	1,255.68	1/4	869.88	1/4	494.14	1/4	105.56	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,413.45	1/2	2,024.83	1/2	1,636.20	1/2	1,247.58	1/2	862.10	1/2	486.04	1/2	97.46	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,405.35	3/4	2,016.73	3/4	1,628.11	3/4	1,239.49	3/4	854.34	3/4	477.95	3/4	89.37	3/4	3/4	3/4	3/4	3/4	3/4
8	2,397.26	8	2,008.63	8	1,620.01	8	1,231.39	8	846.58	8	469.85	8	81.27	8	8	8	8	8	8
1/4	2,389.16	1/4	2,000.54	1/4	1,611.92	1/4	1,223.29	1/4	838.82	1/4	461.76	1/4	73.18	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,381.06	1/2	1,992.44	1/2	1,603.82	1/2	1,215.20	1/2	831.06	1/2	453.66	1/2	65.08	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,372.97	3/4	1,984.35	3/4	1,595.72	3/4	1,207.10	3/4	823.30	3/4	445.57	3/4	58.00	3/4	3/4	3/4	3/4	3/4	3/4
9	2,364.87	9	1,976.25	9	1,587.63	9	1,199.00	9	815.53	9	437.47	9	50.91	9	9	9	9	9	9
1/4	2,356.78	1/4	1,968.15	1/4	1,579.53	1/4	1,190.91	1/4	807.77	1/4	429.37	1/4	43.83	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,348.68	1/2	1,960.06	1/2	1,571.43	1/2	1,182.81	1/2	800.01	1/2	421.28	1/2	36.74	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,340.58	3/4	1,951.96	3/4	1,563.34	3/4	1,174.72	3/4	792.25	3/4	413.18	3/4	31.68	3/4	3/4	3/4	3/4	3/4	3/4
10	2,332.49	10	1,943.86	10	1,555.24	10	1,166.62	10	784.49	10	405.09	10	26.62	10	10	10	10	10	10
1/4	2,324.39	1/4	1,935.77	1/4	1,547.15	1/4	1,158.52	1/4	776.72	1/4	396.99	1/4	21.56	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,316.29	1/2	1,927.67	1/2	1,539.05	1/2	1,150.43	1/2	768.96	1/2	388.90	1/2	16.50	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,308.20	3/4	1,919.58	3/4	1,530.95	3/4	1,142.33	3/4	761.20	3/4	380.80	3/4		3/4	3/4	3/4	3/4	3/4	3/4
11	2,300.10	11	1,911.48	11	1,522.86	11	1,134.23	11	753.44	11	372.71	11		11	11	11	11	11	11
1/4	2,292.00	1/4	1,903.38	1/4	1,514.76	1/4	1,126.14	1/4	745.68	1/4	364.61	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,283.91	1/2	1,895.29	1/2	1,506.66	1/2	1,118.04	1/2	737.91	1/2	356.52	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,275.81	3/4	1,887.19	3/4	1,498.57	3/4	1,109.95	3/4	730.15	3/4	348.42	3/4		3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/17/2002 CL - SW
VERIFIED: 06/01/2023

CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2023

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



BARGE "KIRBY 28021"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-10 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	4,620.33	0	4,353.87	0	4,090.90	0	3,814.71	0	3,526.51	0	3,197.42	0	2,836.31
1/4		1/4		1/4		1/4	4,615.73	1/4	4,348.54	1/4	4,085.27	1/4	3,808.84	1/4	3,520.39	1/4	3,189.89	1/4	2,828.79
1/2		1/2		1/2		1/2	4,609.59	1/2	4,343.18	1/2	4,079.63	1/2	3,802.95	1/2	3,514.25	1/2	3,182.37	1/2	2,821.26
3/4		3/4		3/4		3/4	4,603.46	3/4	4,337.82	3/4	4,073.98	3/4	3,797.05	3/4	3,508.12	3/4	3,174.85	3/4	2,813.74
1		1		1		1	4,597.33	1	4,332.45	1	4,068.34	1	3,791.16	1	3,501.99	1	3,167.32	1	2,806.22
1/4		1/4		1/4		1/4	4,591.20	1/4	4,327.09	1/4	4,062.70	1/4	3,785.27	1/4	3,495.86	1/4	3,159.80	1/4	2,798.69
1/2		1/2		1/2		1/2	4,585.06	1/2	4,321.71	1/2	4,057.03	1/2	3,779.35	1/2	3,489.73	1/2	3,152.28	1/2	2,791.17
3/4		3/4		3/4		3/4	4,578.93	3/4	4,316.34	3/4	4,051.37	3/4	3,773.43	3/4	3,483.60	3/4	3,144.75	3/4	2,783.64
2		2		2		2	4,572.80	2	4,310.96	2	4,045.70	2	3,767.52	2	3,477.46	2	3,137.23	2	2,776.12
1/4		1/4		1/4		1/4	4,566.66	1/4	4,305.58	1/4	4,040.04	1/4	3,761.60	1/4	3,471.33	1/4	3,129.71	1/4	2,768.59
1/2		1/2		1/2		1/2	4,560.53	1/2	4,300.18	1/2	4,034.35	1/2	3,755.66	1/2	3,465.20	1/2	3,122.19	1/2	2,761.07
3/4		3/4		3/4		3/4	4,554.40	3/4	4,294.78	3/4	4,028.66	3/4	3,749.73	3/4	3,459.07	3/4	3,114.66	3/4	2,753.54
3		3		3		3	4,548.27	3	4,289.39	3	4,022.97	3	3,743.79	3	3,452.94	3	3,107.14	3	2,746.02
1/4		1/4		1/4		1/4	4,542.13	1/4	4,283.99	1/4	4,017.29	1/4	3,737.85	1/4	3,446.81	1/4	3,099.62	1/4	2,738.50
1/2		1/2		1/2		1/2	4,536.00	1/2	4,278.57	1/2	4,011.58	1/2	3,731.90	1/2	3,440.53	1/2	3,092.09	1/2	2,730.97
3/4		3/4		3/4		3/4	4,529.87	3/4	4,273.14	3/4	4,005.87	3/4	3,725.94	3/4	3,434.26	3/4	3,084.57	3/4	2,723.45
4		4		4		4	4,523.73	4	4,267.72	4	4,000.17	4	3,719.99	4	3,427.99	4	3,077.05	4	2,715.92
1/4		1/4		1/4		1/4	4,517.60	1/4	4,262.30	1/4	3,994.46	1/4	3,714.03	1/4	3,421.72	1/4	3,069.52	1/4	2,708.40
1/2		1/2		1/2		1/2	4,512.37	1/2	4,256.86	1/2	3,988.73	1/2	3,708.06	1/2	3,415.17	1/2	3,062.00	1/2	2,700.87
3/4		3/4		3/4		3/4	4,507.14	3/4	4,251.42	3/4	3,983.01	3/4	3,702.08	3/4	3,408.62	3/4	3,054.48	3/4	2,693.35
5		5		5		5	4,501.91	5	4,245.98	5	3,977.28	5	3,696.10	5	3,402.08	5	3,046.96	5	2,685.83
1/4		1/4		1/4		1/4	4,496.67	1/4	4,240.54	1/4	3,971.56	1/4	3,690.12	1/4	3,395.53	1/4	3,039.43	1/4	2,678.30
1/2		1/2		1/2		1/2	4,491.42	1/2	4,235.08	1/2	3,965.81	1/2	3,684.12	1/2	3,388.70	1/2	3,031.91	1/2	2,670.78
3/4		3/4		3/4		3/4	4,486.17	3/4	4,229.62	3/4	3,960.06	3/4	3,678.12	3/4	3,381.87	3/4	3,024.39	3/4	2,663.25
6		6		6		6	4,480.92	6	4,224.16	6	3,954.31	6	3,672.13	6	3,375.04	6	3,016.86	6	2,655.73
1/4		1/4		1/4		1/4	4,475.68	1/4	4,218.70	1/4	3,948.56	1/4	3,666.13	1/4	3,368.22	1/4	3,009.34	1/4	2,648.20
1/2		1/2		1/2		1/2	4,470.41	1/2	4,213.22	1/2	3,942.79	1/2	3,660.10	1/2	3,361.11	1/2	3,001.82	1/2	2,640.68
3/4		3/4		3/4		3/4	4,465.14	3/4	4,207.73	3/4	3,937.02	3/4	3,654.08	3/4	3,354.01	3/4	2,994.29	3/4	2,633.15
7		7		7		7	4,459.87	7	4,202.25	7	3,931.25	7	3,648.05	7	3,346.90	7	2,986.77	7	2,625.63
1/4		1/4		1/4		1/4	4,454.60	1/4	4,196.76	1/4	3,925.48	1/4	3,642.03	1/4	3,339.79	1/4	2,979.25	1/4	2,618.11
1/2		1/2		1/2		1/2	4,449.31	1/2	4,191.26	1/2	3,919.69	1/2	3,635.99	1/2	3,332.41	1/2	2,971.73	1/2	2,610.58
3/4		3/4		3/4		3/4	4,444.01	3/4	4,185.76	3/4	3,913.91	3/4	3,629.95	3/4	3,325.03	3/4	2,964.20	3/4	2,603.06
8		8		8		8	4,438.72	8	4,180.26	8	3,908.12	8	3,623.91	8	3,317.64	8	2,956.68	8	2,595.53
1/4		1/4		1/4		1/4	4,433.43	1/4	4,174.76	1/4	3,902.33	1/4	3,617.87	1/4	3,310.26	1/4	2,949.16	1/4	2,588.01
1/2		1/2		1/2		1/2	4,428.15	1/2	4,169.20	1/2	3,896.52	1/2	3,611.81	1/2	3,302.74	1/2	2,941.63	1/2	2,580.48
3/4		3/4		3/4		3/4	4,422.88	3/4	4,163.64	3/4	3,890.71	3/4	3,605.75	3/4	3,295.21	3/4	2,934.11	3/4	2,572.96
9		9		9		9	4,417.60	9	4,158.08	9	3,884.90	9	3,599.69	9	3,287.69	9	2,926.59	9	2,565.43
1/4		1/4		1/4		1/4	4,412.33	1/4	4,152.52	1/4	3,879.08	1/4	3,593.63	1/4	3,280.17	1/4	2,919.06	1/4	2,557.91
1/2		1/2		1/2		1/2	4,407.04	1/2	4,146.94	1/2	3,873.25	1/2	3,587.54	1/2	3,272.65	1/2	2,911.54	1/2	2,550.39
3/4		3/4		3/4		3/4	4,401.74	3/4	4,141.35	3/4	3,867.42	3/4	3,581.46	3/4	3,265.12	3/4	2,904.02	3/4	2,542.86
10		10		10		10	4,396.45	10	4,135.77	10	3,861.59	10	3,575.37	10	3,257.60	10	2,896.50	10	2,535.34
1/4		1/4		1/4		1/4	4,391.15	1/4	4,130.19	1/4	3,855.76	1/4	3,569.28	1/4	3,250.08	1/4	2,888.97	1/4	2,527.81
1/2		1/2		1/2		1/2	4,385.84	1/2	4,124.59	1/2	3,849.90	1/2	3,563.18	1/2	3,242.55	1/2	2,881.45	1/2	2,520.29
3/4		3/4		3/4		3/4	4,380.52	3/4	4,118.99	3/4	3,844.05	3/4	3,557.08	3/4	3,235.03	3/4	2,873.93	3/4	2,512.76
11		11		11		11	4,375.20	11	4,113.39	11	3,838.19	11	3,550.98	11	3,227.51	11	2,866.40	11	2,505.24
1/4		1/4		1/4		1/4	4,369.88	1/4	4,107.78	1/4	3,832.33	1/4	3,544.87	1/4	3,219.98	1/4	2,858.88	1/4	2,497.72
1/2		1/2		1/2		1/2	4,364.55	1/2	4,102.16	1/2	3,826.46	1/2	3,538.75	1/2	3,212.46	1/2	2,851.36	1/2	2,490.19
3/4		3/4		3/4		3/4	4,624.93	3/4	4,359.21	3/4	4,096.53	3/4	3,820.59	3/4	3,532.63	3/4	3,204.94	3/4	2,482.67

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 40'-00" FORWARD OF AFT BULKHEAD.

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 28021"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-10 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	2,475.14	0	2,113.97	0	1,752.80	0	1,391.63	0	1,030.73	0	670.09	0	308.93	0		0		0	
1/4	2,467.62	1/4	2,106.45	1/4	1,745.28	1/4	1,384.10	1/4	1,023.23	1/4	662.57	1/4	301.41	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,460.09	1/2	2,098.92	1/2	1,737.75	1/2	1,376.58	1/2	1,015.73	1/2	655.04	1/2	293.89	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,452.57	3/4	2,091.40	3/4	1,730.23	3/4	1,369.06	3/4	1,008.23	3/4	647.52	3/4	286.36	3/4	3/4	3/4	3/4	3/4	3/4
1	2,445.04	1	2,083.87	1	1,722.70	1	1,361.53	1	1,000.73	1	639.99	1	278.84	1	1	1	1	1	1
1/4	2,437.52	1/4	2,076.35	1/4	1,715.18	1/4	1,354.01	1/4	993.23	1/4	632.47	1/4	271.31	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,430.00	1/2	2,068.82	1/2	1,707.65	1/2	1,346.48	1/2	985.73	1/2	624.95	1/2	263.79	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,422.47	3/4	2,061.30	3/4	1,700.13	3/4	1,338.96	3/4	978.23	3/4	617.42	3/4	256.27	3/4	3/4	3/4	3/4	3/4	3/4
2	2,414.95	2	2,053.78	2	1,692.60	2	1,331.43	2	970.74	2	609.90	2	248.74	2	2	2	2	2	2
1/4	2,407.42	1/4	2,046.25	1/4	1,685.08	1/4	1,323.91	1/4	963.24	1/4	602.37	1/4	241.22	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,399.90	1/2	2,038.73	1/2	1,677.56	1/2	1,316.38	1/2	955.74	1/2	594.85	1/2	233.69	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,392.37	3/4	2,031.20	3/4	1,670.03	3/4	1,308.86	3/4	948.24	3/4	587.33	3/4	226.17	3/4	3/4	3/4	3/4	3/4	3/4
3	2,384.85	3	2,023.68	3	1,662.51	3	1,301.34	3	940.74	3	579.80	3	218.65	3	3	3	3	3	3
1/4	2,377.32	1/4	2,016.15	1/4	1,654.98	1/4	1,293.81	1/4	933.24	1/4	572.28	1/4	211.12	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,369.80	1/2	2,008.63	1/2	1,647.46	1/2	1,286.29	1/2	925.74	1/2	564.75	1/2	203.60	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,362.28	3/4	2,001.10	3/4	1,639.93	3/4	1,278.76	3/4	918.24	3/4	557.23	3/4	196.07	3/4	3/4	3/4	3/4	3/4	3/4
4	2,354.75	4	1,993.58	4	1,632.41	4	1,271.24	4	910.74	4	549.71	4	188.55	4	4	4	4	4	4
1/4	2,347.23	1/4	1,986.06	1/4	1,624.88	1/4	1,263.71	1/4	903.24	1/4	542.18	1/4	181.02	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,339.70	1/2	1,978.53	1/2	1,617.36	1/2	1,256.19	1/2	895.74	1/2	534.66	1/2	173.50	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,332.18	3/4	1,971.01	3/4	1,609.84	3/4	1,248.66	3/4	888.24	3/4	527.13	3/4	165.98	3/4	3/4	3/4	3/4	3/4	3/4
5	2,324.65	5	1,963.48	5	1,602.31	5	1,241.14	5	880.74	5	519.61	5	158.45	5	5	5	5	5	5
1/4	2,317.13	1/4	1,955.96	1/4	1,594.79	1/4	1,233.62	1/4	873.24	1/4	512.08	1/4	150.93	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,309.61	1/2	1,948.43	1/2	1,587.26	1/2	1,226.09	1/2	865.72	1/2	504.56	1/2	143.40	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,302.08	3/4	1,940.91	3/4	1,579.74	3/4	1,218.57	3/4	858.19	3/4	497.04	3/4	135.88	3/4	3/4	3/4	3/4	3/4	3/4
6	2,294.56	6	1,933.39	6	1,572.21	6	1,211.04	6	850.67	6	489.51	6	128.36	6	6	6	6	6	6
1/4	2,287.03	1/4	1,925.86	1/4	1,564.69	1/4	1,203.52	1/4	843.15	1/4	481.99	1/4	120.83	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,279.51	1/2	1,918.34	1/2	1,557.17	1/2	1,195.99	1/2	835.62	1/2	474.46	1/2	113.31	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,271.98	3/4	1,910.81	3/4	1,549.64	3/4	1,188.47	3/4	828.10	3/4	466.94	3/4	105.78	3/4	3/4	3/4	3/4	3/4	3/4
7	2,264.46	7	1,903.29	7	1,542.12	7	1,180.95	7	820.57	7	459.42	7	98.26	7	7	7	7	7	7
1/4	2,256.93	1/4	1,895.76	1/4	1,534.59	1/4	1,173.42	1/4	813.05	1/4	451.89	1/4	90.74	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,249.41	1/2	1,888.24	1/2	1,527.07	1/2	1,165.90	1/2	805.52	1/2	444.37	1/2	83.21	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,241.89	3/4	1,880.71	3/4	1,519.54	3/4	1,158.37	3/4	798.00	3/4	436.84	3/4	75.69	3/4	3/4	3/4	3/4	3/4	3/4
8	2,234.36	8	1,873.19	8	1,512.02	8	1,150.85	8	790.48	8	429.32	8	68.16	8	8	8	8	8	8
1/4	2,226.84	1/4	1,865.67	1/4	1,504.49	1/4	1,143.32	1/4	782.95	1/4	421.80	1/4	60.64	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,219.31	1/2	1,858.14	1/2	1,496.97	1/2	1,135.80	1/2	775.43	1/2	414.27	1/2	54.05	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,211.79	3/4	1,850.62	3/4	1,489.45	3/4	1,128.27	3/4	767.90	3/4	406.75	3/4	47.47	3/4	3/4	3/4	3/4	3/4	3/4
9	2,204.26	9	1,843.09	9	1,481.92	9	1,120.75	9	760.38	9	399.22	9	40.89	9	9	9	9	9	9
1/4	2,196.74	1/4	1,835.57	1/4	1,474.40	1/4	1,113.23	1/4	752.86	1/4	391.70	1/4	34.30	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,189.21	1/2	1,828.04	1/2	1,466.87	1/2	1,105.73	1/2	745.33	1/2	384.18	1/2	29.60	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,181.69	3/4	1,820.52	3/4	1,459.35	3/4	1,098.23	3/4	737.81	3/4	376.65	3/4	24.90	3/4	3/4	3/4	3/4	3/4	3/4
10	2,174.17	10	1,812.99	10	1,451.82	10	1,090.73	10	730.28	10	369.13	10	20.19	10	10	10	10	10	10
1/4	2,166.64	1/4	1,805.47	1/4	1,444.30	1/4	1,083.23	1/4	722.76	1/4	361.60	1/4	15.49	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,159.12	1/2	1,797.95	1/2	1,436.77	1/2	1,075.73	1/2	715.24	1/2	354.08	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,151.59	3/4	1,790.42	3/4	1,429.25	3/4	1,068.23	3/4	707.71	3/4	346.55	3/4		3/4	3/4	3/4	3/4	3/4	3/4
11	2,144.07	11	1,782.90	11	1,421.73	11	1,060.73	11	700.19	11	339.03	11		11	11	11	11	11	11
1/4	2,136.54	1/4	1,775.37	1/4	1,414.20	1/4	1,053.23	1/4	692.66	1/4	331.51	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,129.02	1/2	1,767.85	1/2	1,406.68	1/2	1,045.73	1/2	685.14	1/2	323.98	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,121.50	3/4	1,760.32	3/4	1,399.15	3/4	1,038.23	3/4	677.62	3/4	316.46	3/4		3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/17/2002 CL - SW
VERIFIED: 06/01/2023

CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2023

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



BARGE "KIRBY 28021"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-10 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	0	0	0	0	4,597.67	0	4,331.22	0	4,068.24	0	3,792.05	0	3,503.85	0	3,174.97	0	2,814.54		
1/4	1/4	1/4	1/4	1/4	1/4	4,593.07	1/4	4,325.88	1/4	4,062.61	1/4	3,786.18	1/4	3,497.73	1/4	3,167.46	1/4	2,807.03		
1/2	1/2	1/2	1/2	1/2	1/2	4,586.94	1/2	4,320.52	1/2	4,056.97	1/2	3,780.29	1/2	3,491.59	1/2	3,159.95	1/2	2,799.52		
3/4	3/4	3/4	3/4	3/4	3/4	4,580.80	3/4	4,315.16	3/4	4,051.33	3/4	3,774.40	3/4	3,485.46	3/4	3,152.44	3/4	2,792.01		
1	1	1	1	1	1	4,574.67	1	4,309.80	1	4,045.68	1	3,768.50	1	3,479.33	1	3,144.94	1	2,784.50		
1/4	1/4	1/4	1/4	1/4	1/4	4,568.54	1/4	4,304.43	1/4	4,040.04	1/4	3,762.61	1/4	3,473.20	1/4	3,137.43	1/4	2,776.99		
1/2	1/2	1/2	1/2	1/2	1/2	4,562.40	1/2	4,299.06	1/2	4,034.37	1/2	3,756.69	1/2	3,467.07	1/2	3,129.92	1/2	2,769.48		
3/4	3/4	3/4	3/4	3/4	3/4	4,556.27	3/4	4,293.68	3/4	4,028.71	3/4	3,750.77	3/4	3,460.94	3/4	3,122.41	3/4	2,761.97		
2	2	2	2	2	2	4,550.14	2	4,288.30	2	4,023.05	2	3,744.86	2	3,454.81	2	3,114.90	2	2,754.46		
1/4	1/4	1/4	1/4	1/4	1/4	4,544.01	1/4	4,282.92	1/4	4,017.38	1/4	3,738.94	1/4	3,448.67	1/4	3,107.39	1/4	2,746.95		
1/2	1/2	1/2	1/2	1/2	1/2	4,537.87	1/2	4,277.52	1/2	4,011.69	1/2	3,733.00	1/2	3,442.54	1/2	3,099.88	1/2	2,739.44		
3/4	3/4	3/4	3/4	3/4	3/4	4,531.74	3/4	4,272.13	3/4	4,006.00	3/4	3,727.07	3/4	3,436.41	3/4	3,092.37	3/4	2,731.93		
3	3	3	3	3	3	4,525.61	3	4,266.73	3	4,000.32	3	3,721.13	3	3,430.28	3	3,084.86	3	2,724.42		
1/4	1/4	1/4	1/4	1/4	1/4	4,519.47	1/4	4,261.33	1/4	3,994.63	1/4	3,715.20	1/4	3,424.15	1/4	3,077.35	1/4	2,716.91		
1/2	1/2	1/2	1/2	1/2	1/2	4,513.34	1/2	4,255.91	1/2	3,988.92	1/2	3,709.24	1/2	3,417.88	1/2	3,069.85	1/2	2,709.40		
3/4	3/4	3/4	3/4	3/4	3/4	4,507.21	3/4	4,250.49	3/4	3,983.21	3/4	3,703.29	3/4	3,411.61	3/4	3,062.34	3/4	2,701.89		
4	4	4	4	4	4	4,501.07	4	4,245.06	4	3,977.51	4	3,697.33	4	3,405.33	4	3,054.83	4	2,694.38		
1/4	1/4	1/4	1/4	1/4	1/4	4,494.94	1/4	4,239.64	1/4	3,971.80	1/4	3,691.38	1/4	3,399.06	1/4	3,047.32	1/4	2,686.87		
1/2	1/2	1/2	1/2	1/2	1/2	4,488.71	1/2	4,234.20	1/2	3,966.07	1/2	3,685.40	1/2	3,392.51	1/2	3,039.81	1/2	2,679.36		
3/4	3/4	3/4	3/4	3/4	3/4	4,484.48	3/4	4,228.76	3/4	3,960.35	3/4	3,679.42	3/4	3,385.97	3/4	3,032.30	3/4	2,671.85		
5	5	5	5	5	5	4,479.25	5	4,223.32	5	3,954.62	5	3,673.44	5	3,379.42	5	3,024.79	5	2,664.34		
1/4	1/4	1/4	1/4	1/4	1/4	4,474.01	1/4	4,217.88	1/4	3,948.90	1/4	3,667.46	1/4	3,372.87	1/4	3,017.28	1/4	2,656.83		
1/2	1/2	1/2	1/2	1/2	1/2	4,468.77	1/2	4,212.42	1/2	3,943.15	1/2	3,661.46	1/2	3,366.04	1/2	3,009.77	1/2	2,649.32		
3/4	3/4	3/4	3/4	3/4	3/4	4,463.52	3/4	4,206.96	3/4	3,937.40	3/4	3,655.46	3/4	3,359.21	3/4	3,002.26	3/4	2,641.81		
6	6	6	6	6	6	4,458.27	6	4,201.50	6	3,931.65	6	3,649.47	6	3,352.39	6	2,994.76	6	2,634.30		
1/4	1/4	1/4	1/4	1/4	1/4	4,453.02	1/4	4,196.04	1/4	3,925.90	1/4	3,643.47	1/4	3,345.56	1/4	2,987.25	1/4	2,626.79		
1/2	1/2	1/2	1/2	1/2	1/2	4,447.75	1/2	4,190.56	1/2	3,920.13	1/2	3,637.44	1/2	3,338.45	1/2	2,979.74	1/2	2,619.28		
3/4	3/4	3/4	3/4	3/4	3/4	4,442.48	3/4	4,185.07	3/4	3,914.36	3/4	3,631.42	3/4	3,331.35	3/4	2,972.23	3/4	2,611.76		
7	7	7	7	7	7	4,437.21	7	4,179.59	7	3,908.59	7	3,625.39	7	3,324.24	7	2,964.72	7	2,604.25		
1/4	1/4	1/4	1/4	1/4	1/4	4,431.94	1/4	4,174.11	1/4	3,902.82	1/4	3,619.37	1/4	3,317.14	1/4	2,957.21	1/4	2,596.74		
1/2	1/2	1/2	1/2	1/2	1/2	4,426.65	1/2	4,168.60	1/2	3,897.03	1/2	3,613.33	1/2	3,309.75	1/2	2,949.70	1/2	2,589.23		
3/4	3/4	3/4	3/4	3/4	3/4	4,421.36	3/4	4,163.10	3/4	3,891.25	3/4	3,607.29	3/4	3,302.37	3/4	2,942.19	3/4	2,581.72		
8	8	8	8	8	8	4,416.06	8	4,157.60	8	3,885.46	8	3,601.25	8	3,294.99	8	2,934.68	8	2,574.21		
1/4	1/4	1/4	1/4	1/4	1/4	4,410.77	1/4	4,152.10	1/4	3,879.67	1/4	3,595.21	1/4	3,287.61	1/4	2,927.17	1/4	2,566.70		
1/2	1/2	1/2	1/2	1/2	1/2	4,405.49	1/2	4,146.54	1/2	3,873.86	1/2	3,589.15	1/2	3,280.10	1/2	2,919.67	1/2	2,559.19		
3/4	3/4	3/4	3/4	3/4	3/4	4,400.22	3/4	4,140.98	3/4	3,868.05	3/4	3,583.09	3/4	3,272.59	3/4	2,912.16	3/4	2,551.68		
9	9	9	9	9	9	4,394.95	9	4,135.42	9	3,862.24	9	3,577.03	9	3,265.08	9	2,904.65	9	2,544.17		
1/4	1/4	1/4	1/4	1/4	1/4	4,389.67	1/4	4,129.86	1/4	3,856.43	1/4	3,570.97	1/4	3,257.57	1/4	2,897.14	1/4	2,536.66		
1/2	1/2	1/2	1/2	1/2	1/2	4,384.38	1/2	4,124.28	1/2	3,850.59	1/2	3,564.88	1/2	3,250.06	1/2	2,889.63	1/2	2,529.15		
3/4	3/4	3/4	3/4	3/4	3/4	4,379.08	3/4	4,118.70	3/4	3,844.76	3/4	3,558.80	3/4	3,242.55	3/4	2,882.12	3/4	2,521.64		
10	10	10	10	10	10	4,373.79	10	4,113.11	10	3,838.93	10	3,552.71	10	3,235.04	10	2,874.61	10	2,514.13		
1/4	1/4	1/4	1/4	1/4	1/4	4,368.50	1/4	4,107.53	1/4	3,833.10	1/4	3,546.63	1/4	3,227.53	1/4	2,867.10	1/4	2,506.62		
1/2	1/2	1/2	1/2	1/2	1/2	4,363.18	1/2	4,101.93	1/2	3,827.25	1/2	3,540.52	1/2	3,220.03	1/2	2,859.59	1/2	2,499.11		
3/4	3/4	3/4	3/4	3/4	3/4	4,357.86	3/4	4,096.33	3/4	3,821.39	3/4	3,534.42	3/4	3,212.52	3/4	2,852.08	3/4	2,491.60		
11	11	11	11	11	11	4,352.54	11	4,090.73	11	3,815.53	11	3,528.32	11	3,205.01	11	2,844.58	11	2,484.09		
1/4	1/4	1/4	1/4	1/4	1/4	4,347.23	1/4	4,085.12	1/4	3,809.68	1/4	3,522.21	1/4	3,197.50	1/4	2,837.07	1/4	2,476.58		
1/2	1/2	1/2	1/2	1/2	1/2	4,341.89	1/2	4,079.50	1/2	3,803.80	1/2	3,516.09	1/2	3,189.99	1/2	2,829.56	1/2	2,469.07		
3/4	3/4	3/4	3/4	3/4	3/4	4,602.27	3/4	4,336.55	3/4	4,073.87	3/4	3,797.93	3/4	3,509.97	3/4	3,182.48	3/4	2,822.05	3/4	2,461.57

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 40'-00" FORWARD OF AFT BULKHEAD.

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 28021"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-10 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	2,454.06	0	2,093.62	0	1,736.18	0	1,375.72	0	1,018.94	0	665.69	0	308.77	0		0		0	
1/4	2,446.55	1/4	2,086.11	1/4	1,728.74	1/4	1,368.20	1/4	1,011.58	1/4	658.35	1/4	301.25	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,439.05	1/2	2,078.67	1/2	1,721.23	1/2	1,360.69	1/2	1,004.21	1/2	651.01	1/2	293.74	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,431.54	3/4	2,071.22	3/4	1,713.72	3/4	1,353.18	3/4	996.84	3/4	643.66	3/4	286.23	3/4	3/4	3/4	3/4	3/4	3/4
1	2,424.03	1	2,063.78	1	1,706.20	1	1,345.67	1	989.47	1	636.32	1	278.72	1		1		1	
1/4	2,416.53	1/4	2,056.33	1/4	1,698.69	1/4	1,338.16	1/4	982.11	1/4	628.98	1/4	271.21	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,409.02	1/2	2,048.89	1/2	1,691.18	1/2	1,330.65	1/2	974.74	1/2	621.63	1/2	263.69	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,401.52	3/4	2,041.44	3/4	1,683.67	3/4	1,323.14	3/4	967.37	3/4	614.29	3/4	256.18	3/4	3/4	3/4	3/4	3/4	3/4
2	2,394.01	2	2,033.99	2	1,676.16	2	1,315.63	2	960.00	2	606.95	2	248.67	2		2		2	
1/4	2,386.50	1/4	2,026.55	1/4	1,668.65	1/4	1,308.12	1/4	952.64	1/4	599.61	1/4	241.16	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,379.00	1/2	2,019.10	1/2	1,661.14	1/2	1,300.60	1/2	945.27	1/2	592.26	1/2	233.65	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,371.49	3/4	2,011.66	3/4	1,653.63	3/4	1,293.09	3/4	937.90	3/4	584.92	3/4	226.13	3/4	3/4	3/4	3/4	3/4	3/4
3	2,363.98	3	2,004.21	3	1,646.12	3	1,285.58	3	930.53	3	577.58	3	218.62	3		3		3	
1/4	2,356.48	1/4	1,996.77	1/4	1,638.60	1/4	1,278.07	1/4	923.16	1/4	570.23	1/4	211.11	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,348.97	1/2	1,989.32	1/2	1,631.09	1/2	1,270.56	1/2	915.80	1/2	562.88	1/2	203.59	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,341.46	3/4	1,981.88	3/4	1,623.58	3/4	1,263.05	3/4	908.43	3/4	555.52	3/4	196.06	3/4	3/4	3/4	3/4	3/4	3/4
4	2,333.96	4	1,974.43	4	1,616.07	4	1,255.54	4	901.06	4	548.17	4	188.54	4		4		4	
1/4	2,326.45	1/4	1,966.99	1/4	1,608.56	1/4	1,248.03	1/4	893.69	1/4	540.81	1/4	181.01	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,318.94	1/2	1,959.54	1/2	1,601.05	1/2	1,240.52	1/2	886.33	1/2	533.44	1/2	173.49	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,311.44	3/4	1,952.10	3/4	1,593.54	3/4	1,233.00	3/4	878.96	3/4	526.07	3/4	165.97	3/4	3/4	3/4	3/4	3/4	3/4
5	2,303.93	5	1,944.65	5	1,586.03	5	1,225.49	5	871.59	5	518.69	5	158.44	5		5		5	
1/4	2,296.42	1/4	1,937.21	1/4	1,578.52	1/4	1,217.98	1/4	864.22	1/4	511.32	1/4	150.92	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,288.91	1/2	1,929.76	1/2	1,571.00	1/2	1,210.61	1/2	856.85	1/2	503.88	1/2	143.40	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,281.40	3/4	1,922.32	3/4	1,563.49	3/4	1,203.23	3/4	849.47	3/4	496.43	3/4	135.87	3/4	3/4	3/4	3/4	3/4	3/4
6	2,273.89	6	1,914.87	6	1,555.98	6	1,195.86	6	842.10	6	488.99	6	128.35	6		6		6	
1/4	2,266.38	1/4	1,907.42	1/4	1,548.47	1/4	1,188.48	1/4	834.73	1/4	481.55	1/4	120.82	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,258.87	1/2	1,899.98	1/2	1,540.96	1/2	1,181.11	1/2	827.36	1/2	474.03	1/2	113.30	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,251.36	3/4	1,892.53	3/4	1,533.45	3/4	1,173.74	3/4	819.98	3/4	466.52	3/4	105.78	3/4	3/4	3/4	3/4	3/4	3/4
7	2,243.85	7	1,885.09	7	1,525.94	7	1,166.36	7	812.61	7	459.01	7	98.25	7		7		7	
1/4	2,236.33	1/4	1,877.64	1/4	1,518.43	1/4	1,158.99	1/4	805.24	1/4	451.50	1/4	90.73	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,228.82	1/2	1,870.20	1/2	1,510.92	1/2	1,151.61	1/2	797.89	1/2	443.98	1/2	83.20	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,221.31	3/4	1,862.75	3/4	1,503.40	3/4	1,144.24	3/4	790.53	3/4	436.47	3/4	75.68	3/4	3/4	3/4	3/4	3/4	3/4
8	2,213.80	8	1,855.31	8	1,495.89	8	1,136.86	8	783.18	8	428.96	8	68.16	8		8		8	
1/4	2,206.29	1/4	1,847.86	1/4	1,488.38	1/4	1,129.49	1/4	775.82	1/4	421.45	1/4	60.63	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,198.78	1/2	1,840.42	1/2	1,480.87	1/2	1,122.11	1/2	768.48	1/2	413.94	1/2	54.05	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,191.27	3/4	1,832.97	3/4	1,473.36	3/4	1,114.74	3/4	761.14	3/4	406.42	3/4	47.47	3/4	3/4	3/4	3/4	3/4	3/4
9	2,183.76	9	1,825.53	9	1,465.85	9	1,107.36	9	753.80	9	398.91	9	40.88	9		9		9	
1/4	2,176.25	1/4	1,818.08	1/4	1,458.34	1/4	1,099.99	1/4	746.46	1/4	391.40	1/4	34.30	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,168.73	1/2	1,810.64	1/2	1,450.83	1/2	1,092.62	1/2	739.12	1/2	383.89	1/2	29.60	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,161.22	3/4	1,803.19	3/4	1,443.32	3/4	1,085.25	3/4	731.78	3/4	376.38	3/4	24.89	3/4	3/4	3/4	3/4	3/4	3/4
10	2,153.71	10	1,795.75	10	1,435.80	10	1,077.89	10	724.43	10	368.86	10	20.19	10		10		10	
1/4	2,146.20	1/4	1,788.30	1/4	1,428.29	1/4	1,070.52	1/4	717.09	1/4	361.35	1/4	15.49	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,138.69	1/2	1,780.85	1/2	1,420.78	1/2	1,063.15	1/2	709.75	1/2	353.84	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,131.18	3/4	1,773.41	3/4	1,413.27	3/4	1,055.78	3/4	702.41	3/4	346.33	3/4		3/4	3/4	3/4	3/4	3/4	3/4
11	2,123.67	11	1,765.96	11	1,405.76	11	1,048.42	11	695.06	11	338.82	11		11		11		11	
1/4	2,116.16	1/4	1,758.52	1/4	1,398.25	1/4	1,041.05	1/4	687.72	1/4	331.30	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,108.65	1/2	1,751.07	1/2	1,390.74	1/2	1,033.68	1/2	680.38	1/2	323.79	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,101.13	3/4	1,743.63	3/4	1,383.23	3/4	1,026.31	3/4	673.04	3/4	316.28	3/4		3/4	3/4	3/4	3/4	3/4	3/4

STRAPPED: 04/17/2002 CL - SW
VERIFIED: 06/01/2023

CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2023

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