



# BARGE "KIRBY 13023B"

## 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	00-1/2	- 00-1/2	00-7/8	- 00-7/8	01-3/8	- 01-3/8	01-3/4	- 01-3/4	02-1/4	- 02-1/4	02-5/8	- 02-5/8
1 STBD	00-1/2	- 00-1/2	00-7/8	- 00-7/8	01-3/8	- 01-3/8	01-3/4	- 01-3/4	02-1/4	- 02-1/4	02-5/8	- 02-5/8
2 PORT	00-1/2	- 00-1/2	01-0/8	- 01-0/8	01-1/2	- 01-1/2	02-0/8	- 02-0/8	02-1/2	- 02-1/2	03-0/8	- 03-0/8
2 STBD	00-1/2	- 00-1/2	01-0/8	- 01-0/8	01-1/2	- 01-1/2	02-0/8	- 02-0/8	02-1/2	- 02-1/2	03-0/8	- 03-0/8

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

LENGTH BETWEEN DRAFT MARKS: 135'-00"

April 30, 2009

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 2092  
 Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "KIRBY 13023B"

## 1 PORT

### ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPIMS 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'-08" OFF CENTERLINE AND 37'-08" FORWARD OF AFT BULKHEAD.

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# BARGE "KIRBY 13023B"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
0	1,793.32	0	1,521.44	0	1,249.55	0	977.66	0	707.37	0	435.83	0	163.97	0	0	0	0	0	0
1/4	1,797.66	1/4	1,515.77	1/4	1,243.88	1/4	972.00	1/4	701.75	1/4	430.16	1/4	158.32	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,791.99	1/2	1,510.11	1/2	1,238.22	1/2	966.33	1/2	696.13	1/2	424.50	1/2	152.67	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,776.33	3/4	1,504.44	3/4	1,232.56	3/4	960.67	3/4	690.50	3/4	418.83	3/4	147.02	3/4	3/4	3/4	3/4	3/4	3/4
1	1,770.66	1	1,498.78	1	1,226.89	1	955.01	1	684.88	1	413.17	1	141.37	1	1	1	1	1	1
1/4	1,765.00	1/4	1,493.11	1/4	1,221.23	1/4	949.34	1/4	679.26	1/4	407.50	1/4	135.72	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,759.34	1/2	1,487.45	1/2	1,215.56	1/2	943.68	1/2	673.62	1/2	401.84	1/2	130.08	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,753.67	3/4	1,481.78	3/4	1,209.90	3/4	938.01	3/4	667.99	3/4	396.18	3/4	124.44	3/4	3/4	3/4	3/4	3/4	3/4
2	1,748.01	2	1,476.12	2	1,204.23	2	932.35	2	662.36	2	390.51	2	118.80	2	2	2	2	2	2
1/4	1,742.34	1/4	1,470.46	1/4	1,198.57	1/4	926.68	1/4	656.73	1/4	384.85	1/4	113.16	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,736.68	1/2	1,464.79	1/2	1,192.91	1/2	921.04	1/2	651.06	1/2	379.18	1/2	107.54	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,731.01	3/4	1,459.13	3/4	1,187.24	3/4	915.40	3/4	645.40	3/4	373.52	3/4	101.92	3/4	3/4	3/4	3/4	3/4	3/4
3	1,725.35	3	1,453.46	3	1,181.58	3	909.76	3	639.73	3	367.86	3	96.30	3	3	3	3	3	3
1/4	1,719.69	1/4	1,447.80	1/4	1,175.91	1/4	904.12	1/4	634.07	1/4	362.19	1/4	90.67	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,714.02	1/2	1,442.13	1/2	1,170.25	1/2	898.49	1/2	628.40	1/2	356.53	1/2	85.07	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,708.36	3/4	1,436.47	3/4	1,164.58	3/4	892.85	3/4	622.74	3/4	350.86	3/4	79.47	3/4	3/4	3/4	3/4	3/4	3/4
4	1,702.69	4	1,430.81	4	1,158.92	4	887.22	4	617.08	4	345.20	4	73.87	4	4	4	4	4	4
1/4	1,697.03	1/4	1,425.14	1/4	1,153.26	1/4	881.59	1/4	611.41	1/4	339.54	1/4	68.27	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,691.36	1/2	1,419.48	1/2	1,147.59	1/2	875.97	1/2	605.75	1/2	333.87	1/2	62.71	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,685.70	3/4	1,413.81	3/4	1,141.93	3/4	870.35	3/4	600.08	3/4	328.21	3/4	57.15	3/4	3/4	3/4	3/4	3/4	3/4
5	1,680.04	5	1,408.15	5	1,136.26	5	864.73	5	594.42	5	322.54	5	51.58	5	5	5	5	5	5
1/4	1,674.37	1/4	1,402.48	1/4	1,130.60	1/4	859.11	1/4	588.76	1/4	316.88	1/4	46.02	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,668.71	1/2	1,396.82	1/2	1,124.93	1/2	853.49	1/2	583.09	1/2	311.22	1/2	41.07	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,663.04	3/4	1,391.16	3/4	1,119.27	3/4	847.87	3/4	577.43	3/4	305.55	3/4	36.12	3/4	3/4	3/4	3/4	3/4	3/4
6	1,657.38	6	1,385.49	6	1,113.61	6	842.25	6	571.76	6	299.89	6	31.17	6	6	6	6	6	6
1/4	1,651.71	1/4	1,379.83	1/4	1,107.94	1/4	836.63	1/4	566.10	1/4	294.22	1/4	26.22	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,646.05	1/2	1,374.16	1/2	1,102.28	1/2	831.01	1/2	560.44	1/2	288.56	1/2	22.68	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,640.39	3/4	1,368.50	3/4	1,096.61	3/4	825.39	3/4	554.77	3/4	282.89	3/4	19.14	3/4	3/4	3/4	3/4	3/4	3/4
7	1,634.72	7	1,362.83	7	1,090.95	7	819.77	7	549.11	7	277.23	7	15.60	7	7	7	7	7	7
1/4	1,629.06	1/4	1,357.17	1/4	1,085.28	1/4	814.15	1/4	543.44	1/4	271.57	1/4	12.06	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,623.39	1/2	1,351.51	1/2	1,079.62	1/2	808.53	1/2	537.78	1/2	265.90	1/2	8.50	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,617.73	3/4	1,345.84	3/4	1,073.96	3/4	802.91	3/4	532.11	3/4	260.24	3/4	5.00	3/4	3/4	3/4	3/4	3/4	3/4
8	1,612.06	8	1,340.18	8	1,068.29	8	797.29	8	526.45	8	254.57	8	1.50	8	8	8	8	8	8
1/4	1,606.40	1/4	1,334.51	1/4	1,062.63	1/4	791.67	1/4	520.79	1/4	248.91	1/4	0.00	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,600.74	1/2	1,328.85	1/2	1,056.96	1/2	786.05	1/2	515.12	1/2	243.25	1/2	0.00	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,595.07	3/4	1,323.18	3/4	1,051.30	3/4	780.43	3/4	509.46	3/4	237.58	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4
9	1,589.41	9	1,317.52	9	1,045.63	9	774.81	9	503.79	9	231.92	9	0.00	9	9	9	9	9	9
1/4	1,583.74	1/4	1,311.86	1/4	1,039.97	1/4	769.19	1/4	498.13	1/4	226.25	1/4	0.00	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,578.08	1/2	1,306.19	1/2	1,034.31	1/2	763.57	1/2	492.47	1/2	220.59	1/2	0.00	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,572.41	3/4	1,300.53	3/4	1,028.64	3/4	757.95	3/4	486.80	3/4	214.92	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4
10	1,566.75	10	1,294.86	10	1,022.98	10	752.33	10	481.14	10	209.26	10	0.00	10	10	10	10	10	10
1/4	1,561.09	1/4	1,289.20	1/4	1,017.31	1/4	746.71	1/4	475.47	1/4	203.60	1/4	0.00	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,555.42	1/2	1,283.53	1/2	1,011.65	1/2	741.09	1/2	469.81	1/2	197.93	1/2	0.00	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,549.76	3/4	1,277.87	3/4	1,005.98	3/4	735.47	3/4	464.15	3/4	192.27	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4
11	1,544.09	11	1,272.21	11	1,000.32	11	729.85	11	458.48	11	186.61	11	0.00	11	11	11	11	11	11
1/4	1,538.43	1/4	1,266.54	1/4	994.66	1/4	724.23	1/4	452.82	1/4	180.95	1/4	0.00	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,532.76	1/2	1,260.88	1/2	988.99	1/2	718.61	1/2	447.15	1/2	175.29	1/2	0.00	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,527.10	3/4	1,255.21	3/4	983.33	3/4	712.99	3/4	441.49	3/4	169.63	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/29/2009 CL - SW  
CALCULATED: 04/30/2009 CL  
PRINTED: 04/30/2009 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 04/2009

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



# BARGE "KIRBY 13023B"

1 STBD

## ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 37'-08" FORWARD OF AFT BULKHEAD.

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



# BARGE "KIRBY 13023B"

1 STBD

## ULLAGE TABLE

CAPACITIES IN BARRELS OF 42 U.S. GALLONS

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
0	1,795.01	0	1,523.85	0	1,252.69	0	981.53	0	711.23	0	440.31	0	169.18	0	0	0	0	0	0
1/4	1,789.36	1/4	1,518.20	1/4	1,247.04	1/4	975.88	1/4	705.62	1/4	434.66	1/4	163.54	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,783.71	1/2	1,512.55	1/2	1,241.39	1/2	970.23	1/2	700.00	1/2	429.02	1/2	157.90	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,778.06	3/4	1,506.90	3/4	1,235.74	3/4	964.58	3/4	694.37	3/4	423.37	3/4	152.26	3/4	3/4	3/4	3/4	3/4	3/4
1	1,772.41	1	1,501.25	1	1,230.09	1	958.93	1	688.75	1	417.72	1	146.63	1	1	1	1	1	1
1/4	1,766.77	1/4	1,495.60	1/4	1,224.44	1/4	953.28	1/4	683.13	1/4	412.07	1/4	140.99	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,761.12	1/2	1,489.95	1/2	1,218.79	1/2	947.63	1/2	677.50	1/2	406.42	1/2	135.36	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,755.47	3/4	1,484.31	3/4	1,213.14	3/4	941.98	3/4	671.87	3/4	400.77	3/4	129.73	3/4	3/4	3/4	3/4	3/4	3/4
2	1,749.82	2	1,478.66	2	1,207.49	2	936.33	2	666.24	2	395.12	2	124.11	2	2	2	2	2	2
1/4	1,744.17	1/4	1,473.01	1/4	1,201.85	1/4	930.68	1/4	660.61	1/4	389.47	1/4	118.49	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,738.52	1/2	1,467.36	1/2	1,196.20	1/2	925.03	1/2	654.98	1/2	383.82	1/2	112.86	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,732.87	3/4	1,461.71	3/4	1,190.55	3/4	919.39	3/4	649.33	3/4	378.17	3/4	107.26	3/4	3/4	3/4	3/4	3/4	3/4
3	1,727.22	3	1,456.06	3	1,184.90	3	913.74	3	643.68	3	372.53	3	101.65	3	3	3	3	3	3
1/4	1,721.57	1/4	1,450.41	1/4	1,179.25	1/4	908.09	1/4	638.03	1/4	366.88	1/4	96.04	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,715.92	1/2	1,444.76	1/2	1,173.60	1/2	902.44	1/2	632.38	1/2	361.23	1/2	90.43	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,710.27	3/4	1,439.11	3/4	1,167.95	3/4	896.80	3/4	626.73	3/4	355.58	3/4	84.85	3/4	3/4	3/4	3/4	3/4	3/4
4	1,704.62	4	1,433.46	4	1,162.30	4	891.16	4	621.08	4	349.93	4	79.26	4	4	4	4	4	4
1/4	1,698.97	1/4	1,427.81	1/4	1,156.65	1/4	885.52	1/4	615.43	1/4	344.28	1/4	73.68	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,693.33	1/2	1,422.16	1/2	1,151.00	1/2	879.87	1/2	609.78	1/2	338.63	1/2	68.09	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,687.68	3/4	1,416.51	3/4	1,145.35	3/4	874.25	3/4	604.13	3/4	332.98	3/4	62.54	3/4	3/4	3/4	3/4	3/4	3/4
5	1,682.03	5	1,410.87	5	1,139.70	5	868.62	5	598.49	5	327.33	5	56.99	5	5	5	5	5	5
1/4	1,676.38	1/4	1,405.22	1/4	1,134.05	1/4	862.99	1/4	592.84	1/4	321.68	1/4	51.44	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,670.73	1/2	1,399.57	1/2	1,128.41	1/2	857.36	1/2	587.19	1/2	316.04	1/2	45.90	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,665.08	3/4	1,393.92	3/4	1,122.76	3/4	851.73	3/4	581.54	3/4	310.39	3/4	40.36	3/4	3/4	3/4	3/4	3/4	3/4
6	1,659.43	6	1,388.27	6	1,117.11	6	846.11	6	575.89	6	304.74	6	36.02	6	6	6	6	6	6
1/4	1,653.78	1/4	1,382.62	1/4	1,111.46	1/4	840.48	1/4	570.24	1/4	299.09	1/4	31.09	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,648.13	1/2	1,376.97	1/2	1,105.81	1/2	834.85	1/2	564.59	1/2	293.44	1/2	26.15	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,642.48	3/4	1,371.32	3/4	1,100.16	3/4	829.23	3/4	558.94	3/4	287.79	3/4	22.62	3/4	3/4	3/4	3/4	3/4	3/4
7	1,636.83	7	1,365.67	7	1,094.51	7	823.61	7	553.29	7	282.14	7	19.09	7	7	7	7	7	7
1/4	1,631.18	1/4	1,360.02	1/4	1,088.86	1/4	817.99	1/4	547.64	1/4	276.49	1/4	15.56	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,625.54	1/2	1,354.37	1/2	1,083.21	1/2	812.37	1/2	542.00	1/2	270.84	1/2	12.03	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,619.89	3/4	1,348.72	3/4	1,077.56	3/4	806.76	3/4	536.35	3/4	265.19	3/4	8.50	3/4	3/4	3/4	3/4	3/4	3/4
8	1,614.24	8	1,343.08	8	1,071.91	8	801.14	8	530.70	8	259.55	8	5.00	8	8	8	8	8	8
1/4	1,608.59	1/4	1,337.43	1/4	1,066.26	1/4	795.52	1/4	525.05	1/4	253.90	1/4	1.50	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,602.94	1/2	1,331.78	1/2	1,060.62	1/2	789.90	1/2	519.40	1/2	248.25	1/2	0.00	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,597.29	3/4	1,326.13	3/4	1,054.97	3/4	784.28	3/4	513.75	3/4	242.60	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4
9	1,591.64	9	1,320.48	9	1,049.32	9	778.66	9	508.10	9	236.95	9	0.00	9	9	9	9	9	9
1/4	1,585.99	1/4	1,314.83	1/4	1,043.67	1/4	773.04	1/4	502.45	1/4	231.30	1/4	0.00	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,580.34	1/2	1,309.18	1/2	1,038.02	1/2	767.42	1/2	496.80	1/2	225.65	1/2	0.00	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,574.69	3/4	1,303.53	3/4	1,032.37	3/4	761.80	3/4	491.15	3/4	220.00	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4
10	1,569.04	10	1,297.88	10	1,026.72	10	756.19	10	485.51	10	214.35	10	0.00	10	10	10	10	10	10
1/4	1,563.39	1/4	1,292.23	1/4	1,021.07	1/4	750.57	1/4	479.86	1/4	208.70	1/4	0.00	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,557.74	1/2	1,286.58	1/2	1,015.42	1/2	744.95	1/2	474.21	1/2	203.05	1/2	0.00	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,552.10	3/4	1,280.93	3/4	1,009.77	3/4	739.33	3/4	468.56	3/4	197.41	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4
11	1,546.45	11	1,275.28	11	1,004.12	11	733.71	11	462.91	11	191.76	11	0.00	11	11	11	11	11	11
1/4	1,540.80	1/4	1,269.64	1/4	998.47	1/4	728.09	1/4	457.26	1/4	186.11	1/4	0.00	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,535.15	1/2	1,263.99	1/2	992.82	1/2	722.47	1/2	451.61	1/2	180.46	1/2	0.00	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,529.50	3/4	1,258.34	3/4	987.18	3/4	716.85	3/4	445.96	3/4	174.82	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/29/2009 CL - SW  
 CALCULATED: 04/30/2009 CL  
 PRINTED: 04/30/2009 CL

CANCELS AND SUPERCEDES  
 ALL PRIOR TO 04/2009

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 2092  
 Pearland, Texas 77598  
<http://www.pmacorp.net>





# BARGE "KIRBY 13023B"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
0	1,727.81	0	1,454.95	0	1,182.09	0	908.43	0	643.63	0	371.54	0	97.77	0	0	0	0	0	0
1/4	1,722.13	1/4	1,449.26	1/4	1,176.39	1/4	902.73	1/4	638.15	1/4	365.83	1/4	92.09	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,716.46	1/2	1,443.57	1/2	1,170.68	1/2	897.03	1/2	632.67	1/2	360.13	1/2	86.41	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,710.78	3/4	1,437.88	3/4	1,164.98	3/4	891.33	3/4	627.19	3/4	354.42	3/4	80.72	3/4	3/4	3/4	3/4	3/4	3/4
1	1,705.10	1	1,432.19	1	1,159.28	1	885.62	1	621.71	1	348.72	1	75.04	1	1	1	1	1	1
1/4	1,699.42	1/4	1,426.51	1/4	1,153.58	1/4	879.92	1/4	616.22	1/4	343.01	1/4	69.80	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,693.74	1/2	1,420.82	1/2	1,147.88	1/2	874.22	1/2	610.73	1/2	337.31	1/2	64.56	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,688.06	3/4	1,415.13	3/4	1,142.18	3/4	868.52	3/4	605.24	3/4	331.60	3/4	59.31	3/4	3/4	3/4	3/4	3/4	3/4
2	1,682.39	2	1,409.44	2	1,136.48	2	862.82	2	599.75	2	325.89	2	54.07	2	2	2	2	2	2
1/4	1,676.71	1/4	1,403.75	1/4	1,130.78	1/4	857.32	1/4	594.05	1/4	320.19	1/4	49.69	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,671.03	1/2	1,398.06	1/2	1,125.07	1/2	851.83	1/2	588.34	1/2	314.48	1/2	45.32	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,665.35	3/4	1,392.37	3/4	1,119.37	3/4	846.33	3/4	582.64	3/4	308.78	3/4	40.94	3/4	3/4	3/4	3/4	3/4	3/4
3	1,659.67	3	1,386.68	3	1,113.67	3	840.83	3	576.93	3	303.07	3	36.56	3	3	3	3	3	3
1/4	1,653.99	1/4	1,380.99	1/4	1,107.97	1/4	835.35	1/4	571.23	1/4	297.37	1/4	33.07	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,648.32	1/2	1,375.30	1/2	1,102.27	1/2	829.86	1/2	565.53	1/2	291.66	1/2	29.57	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,642.64	3/4	1,369.62	3/4	1,096.57	3/4	824.37	3/4	559.82	3/4	285.96	3/4	26.07	3/4	3/4	3/4	3/4	3/4	3/4
4	1,636.96	4	1,363.93	4	1,090.87	4	818.88	4	554.12	4	280.25	4	22.58	4	4	4	4	4	4
1/4	1,631.28	1/4	1,358.24	1/4	1,085.17	1/4	813.41	1/4	548.41	1/4	274.54	1/4	19.96	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,625.60	1/2	1,352.55	1/2	1,079.47	1/2	807.93	1/2	542.71	1/2	268.84	1/2	17.35	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,619.93	3/4	1,346.86	3/4	1,073.76	3/4	802.45	3/4	537.00	3/4	263.13	3/4	14.74	3/4	3/4	3/4	3/4	3/4	3/4
5	1,614.25	5	1,341.17	5	1,068.06	5	796.98	5	531.30	5	257.43	5	12.12	5	5	5	5	5	5
1/4	1,608.57	1/4	1,335.49	1/4	1,062.36	1/4	791.50	1/4	525.59	1/4	251.72	1/4	9.51	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,602.89	1/2	1,329.81	1/2	1,056.66	1/2	786.03	1/2	519.89	1/2	246.02	1/2	6.90	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,597.21	3/4	1,324.13	3/4	1,050.96	3/4	780.55	3/4	514.18	3/4	240.31	3/4	4.29	3/4	3/4	3/4	3/4	3/4	3/4
6	1,591.53	6	1,318.45	6	1,045.26	6	775.07	6	508.47	6	234.61	6	1.68	6	6	6	6	6	6
1/4	1,585.86	1/4	1,312.76	1/4	1,039.56	1/4	769.60	1/4	502.77	1/4	228.90	1/4	0.07	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,580.18	1/2	1,307.08	1/2	1,033.86	1/2	764.12	1/2	497.06	1/2	223.19	1/2	0.00	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,574.50	3/4	1,301.40	3/4	1,028.15	3/4	758.64	3/4	491.36	3/4	217.49	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4
7	1,568.82	7	1,295.72	7	1,022.45	7	753.17	7	485.65	7	211.78	7	0.00	7	7	7	7	7	7
1/4	1,563.14	1/4	1,290.04	1/4	1,016.75	1/4	747.69	1/4	479.95	1/4	206.08	1/4	0.00	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,557.47	1/2	1,284.36	1/2	1,011.05	1/2	742.21	1/2	474.24	1/2	200.37	1/2	0.00	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,551.79	3/4	1,278.67	3/4	1,005.35	3/4	736.74	3/4	468.53	3/4	194.67	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4
8	1,546.11	8	1,272.99	8	999.65	8	731.26	8	462.83	8	188.96	8	0.00	8	8	8	8	8	8
1/4	1,540.43	1/4	1,267.31	1/4	993.95	1/4	725.78	1/4	457.12	1/4	183.25	1/4	0.00	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,534.75	1/2	1,261.63	1/2	988.25	1/2	720.31	1/2	451.42	1/2	177.55	1/2	0.00	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,529.07	3/4	1,255.95	3/4	982.54	3/4	714.83	3/4	445.71	3/4	171.84	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4
9	1,523.40	9	1,250.27	9	976.84	9	709.35	9	440.01	9	166.14	9	0.00	9	9	9	9	9	9
1/4	1,517.71	1/4	1,244.58	1/4	971.14	1/4	703.88	1/4	434.30	1/4	160.43	1/4	0.00	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,512.02	1/2	1,238.90	1/2	965.44	1/2	698.40	1/2	428.60	1/2	154.73	1/2	0.00	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,506.33	3/4	1,233.22	3/4	959.74	3/4	692.92	3/4	422.89	3/4	149.02	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4
10	1,500.65	10	1,227.54	10	954.04	10	687.45	10	417.18	10	143.31	10	0.00	10	10	10	10	10	10
1/4	1,494.93	1/4	1,221.86	1/4	948.34	1/4	681.97	1/4	411.48	1/4	137.62	1/4	0.00	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,489.22	1/2	1,216.18	1/2	942.64	1/2	676.49	1/2	405.77	1/2	131.92	1/2	0.00	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,483.51	3/4	1,210.49	3/4	936.94	3/4	671.02	3/4	400.07	3/4	126.23	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4
11	1,477.80	11	1,204.81	11	931.23	11	665.54	11	394.36	11	120.53	11	0.00	11	11	11	11	11	11
1/4	1,472.09	1/4	1,199.13	1/4	925.53	1/4	660.06	1/4	388.66	1/4	114.84	1/4	0.00	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,466.37	1/2	1,193.45	1/2	919.83	1/2	654.59	1/2	382.95	1/2	109.15	1/2	0.00	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,460.66	3/4	1,187.77	3/4	914.13	3/4	649.11	3/4	377.25	3/4	103.46	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/29/2009 CL - SW  
CALCULATED: 04/30/2009 CL  
PRINTED: 04/30/2009 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 04/2009

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







# BARGE "KIRBY 13023B"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.		
IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	
0	1,753.14	0	1,478.97	0	1,203.78	0	928.58	0	654.28	0	379.30	0	104.15	0	0	0	0	0	0	
1/4	1,747.43	1/4	1,473.24	1/4	1,198.04	1/4	922.84	1/4	648.58	1/4	373.57	1/4	98.42	1/4	1/4	1/4	1/4	1/4	1/4	
1/2	1,741.73	1/2	1,467.51	1/2	1,192.31	1/2	917.11	1/2	642.87	1/2	367.84	1/2	92.70	1/2	1/2	1/2	1/2	1/2	1/2	
3/4	1,736.02	3/4	1,461.77	3/4	1,186.58	3/4	911.38	3/4	637.17	3/4	362.10	3/4	86.98	3/4	3/4	3/4	3/4	3/4	3/4	
1	1,730.31	1	1,456.04	1	1,180.84	1	905.64	1	631.46	1	356.37	1	81.26	1	1	1	1	1	1	
1/4	1,724.60	1/4	1,450.31	1/4	1,175.11	1/4	899.91	1/4	625.75	1/4	350.64	1/4	75.55	1/4	1/4	1/4	1/4	1/4	1/4	
1/2	1,718.89	1/2	1,444.57	1/2	1,169.38	1/2	894.18	1/2	620.04	1/2	344.91	1/2	70.27	1/2	1/2	1/2	1/2	1/2	1/2	
3/4	1,713.19	3/4	1,438.84	3/4	1,163.64	3/4	888.44	3/4	614.32	3/4	339.17	3/4	64.99	3/4	3/4	3/4	3/4	3/4	3/4	
2	1,707.48	2	1,433.11	2	1,157.91	2	882.71	2	608.61	2	333.44	2	59.71	2	2	2	2	2	2	
1/4	1,701.77	1/4	1,427.37	1/4	1,152.18	1/4	876.98	1/4	602.89	1/4	327.71	1/4	54.43	1/4	1/4	1/4	1/4	1/4	1/4	
1/2	1,696.06	1/2	1,421.64	1/2	1,146.44	1/2	871.24	1/2	597.16	1/2	321.97	1/2	50.03	1/2	1/2	1/2	1/2	1/2	1/2	
3/4	1,690.35	3/4	1,415.91	3/4	1,140.71	3/4	865.51	3/4	591.42	3/4	316.24	3/4	45.63	3/4	3/4	3/4	3/4	3/4	3/4	
3	1,684.64	3	1,410.17	3	1,134.98	3	859.78	3	585.69	3	310.51	3	41.22	3	3	3	3	3	3	
1/4	1,678.94	1/4	1,404.44	1/4	1,129.24	1/4	854.04	1/4	579.96	1/4	304.77	1/4	36.82	1/4	1/4	1/4	1/4	1/4	1/4	
1/2	1,673.23	1/2	1,398.71	1/2	1,123.51	1/2	848.32	1/2	574.23	1/2	299.04	1/2	33.30	1/2	1/2	1/2	1/2	1/2	1/2	
3/4	1,667.52	3/4	1,392.97	3/4	1,117.78	3/4	842.59	3/4	568.49	3/4	293.31	3/4	29.78	3/4	3/4	3/4	3/4	3/4	3/4	
4	1,661.81	4	1,387.24	4	1,112.04	4	836.87	4	562.76	4	287.58	4	26.26	4	4	4	4	4	4	
1/4	1,656.10	1/4	1,381.51	1/4	1,106.31	1/4	831.14	1/4	557.03	1/4	281.84	1/4	22.73	1/4	1/4	1/4	1/4	1/4	1/4	
1/2	1,650.40	1/2	1,375.77	1/2	1,100.58	1/2	825.43	1/2	551.29	1/2	276.11	1/2	20.11	1/2	1/2	1/2	1/2	1/2	1/2	
3/4	1,644.69	3/4	1,370.04	3/4	1,094.84	3/4	819.72	3/4	545.56	3/4	270.38	3/4	17.48	3/4	3/4	3/4	3/4	3/4	3/4	
5	1,638.98	5	1,364.31	5	1,089.11	5	814.01	5	539.83	5	264.64	5	14.85	5	5	5	5	5	5	
1/4	1,633.27	1/4	1,358.57	1/4	1,083.38	1/4	808.30	1/4	534.09	1/4	258.91	1/4	12.23	1/4	1/4	1/4	1/4	1/4	1/4	
1/2	1,627.56	1/2	1,352.84	1/2	1,077.64	1/2	802.59	1/2	528.36	1/2	253.18	1/2	11.11	1/2	1/2	1/2	1/2	1/2	1/2	
3/4	1,621.85	3/4	1,347.11	3/4	1,071.91	3/4	796.87	3/4	522.63	3/4	247.44	3/4	10.00	3/4	3/4	3/4	3/4	3/4	3/4	
6	1,616.15	6	1,341.37	6	1,066.18	6	791.16	6	516.90	6	241.71	6	8.89	6	6	6	6	6	6	
1/4	1,610.44	1/4	1,335.64	1/4	1,060.44	1/4	785.45	1/4	511.16	1/4	235.98	1/4	7.78	1/4	1/4	1/4	1/4	1/4	1/4	
1/2	1,604.73	1/2	1,329.91	1/2	1,054.71	1/2	779.75	1/2	505.43	1/2	230.25	1/2	6.67	1/2	1/2	1/2	1/2	1/2	1/2	
3/4	1,599.02	3/4	1,324.17	3/4	1,048.98	3/4	774.05	3/4	499.70	3/4	224.51	3/4	5.56	3/4	3/4	3/4	3/4	3/4	3/4	
7	1,593.31	7	1,318.44	7	1,043.24	7	768.34	7	493.96	7	218.78	7	4.45	7	7	7	7	7	7	7
1/4	1,587.61	1/4	1,312.71	1/4	1,037.51	1/4	762.64	1/4	488.23	1/4	213.05	1/4	3.34	1/4	1/4	1/4	1/4	1/4	1/4	
1/2	1,581.90	1/2	1,306.97	1/2	1,031.78	1/2	756.94	1/2	482.50	1/2	207.31	1/2	2.23	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,576.19	3/4	1,301.24	3/4	1,026.04	3/4	751.23	3/4	476.76	3/4	201.58	3/4	1.12	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,570.48	8	1,295.51	8	1,020.31	8	745.53	8	471.03	8	195.85	8	0.01	8	8	8	8	8	8	8
1/4	1,564.77	1/4	1,289.77	1/4	1,014.58	1/4	739.83	1/4	465.30	1/4	190.11	1/4	0.00	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,559.06	1/2	1,284.04	1/2	1,008.84	1/2	734.13	1/2	459.57	1/2	184.38	1/2	0.00	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,553.36	3/4	1,278.31	3/4	1,003.11	3/4	728.42	3/4	453.83	3/4	178.65	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,547.65	9	1,272.57	9	997.38	9	722.72	9	448.10	9	172.92	9	0.00	9	9	9	9	9	9	9
1/4	1,541.94	1/4	1,266.84	1/4	991.64	1/4	717.02	1/4	442.37	1/4	167.18	1/4	0.00	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,536.23	1/2	1,261.11	1/2	985.91	1/2	711.31	1/2	436.63	1/2	161.45	1/2	0.00	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,530.52	3/4	1,255.38	3/4	980.18	3/4	705.61	3/4	430.90	3/4	155.72	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,524.82	10	1,249.64	10	974.44	10	699.91	10	425.17	10	149.98	10	0.00	10	10	10	10	10	10	10
1/4	1,519.11	1/4	1,243.91	1/4	968.71	1/4	694.20	1/4	419.43	1/4	144.25	1/4	0.00	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,513.37	1/2	1,238.18	1/2	962.98	1/2	688.50	1/2	413.70	1/2	138.52	1/2	0.00	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,507.64	3/4	1,232.44	3/4	957.24	3/4	682.80	3/4	407.97	3/4	132.79	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,501.91	11	1,226.71	11	951.51	11	677.10	11	402.24	11	127.05	11	0.00	11	11	11	11	11	11	11
1/4	1,496.17	1/4	1,220.98	1/4	945.78	1/4	671.39	1/4	396.50	1/4	121.32	1/4	0.00	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,490.44	1/2	1,215.24	1/2	940.04	1/2	665.69	1/2	390.77	1/2	115.60	1/2	0.00	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,484.71	3/4	1,209.51	3/4	934.31	3/4	659.99	3/4	385.04	3/4	109.87	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/29/2009 CL - SW  
 CALCULATED: 04/30/2009 CL  
 PRINTED: 04/30/2009 CL  
 CANCELS AND SUPERCEDES  
 ALL PRIOR TO 04/2009

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