



**\*KIRBY 28029\***



**\*Barge Strapping Tables\***





# BARGE "KIRBY 28029"

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

(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: 237'-00"

March 30, 2004

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
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# BARGE "KIRBY 28029"

## 1 PORT ULLAGE TABLE

GAUGE HEIGHT 16'-10 1/2"

CAPACITIES GIVEN IN WHOLE 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.	
W	H	W	H	W	H	W	H	W	H	W	H	W	H	W	H	W	H	W	H	W	H
0	2,129.70	0	1,798.39	0	1,467.08	0	1,135.77	0	810.18	0	506.47	0	226.19	0	0	0	0	0	0	0	0
1/4	2,122.79	1/4	1,791.48	1/4	1,460.17	1/4	1,128.86	1/4	803.62	1/4	500.38	1/4	220.59	1/4	0	0	0	0	0	0	0
1/2	2,115.89	1/2	1,784.58	1/2	1,453.27	1/2	1,121.96	1/2	797.08	1/2	494.30	1/2	215.00	1/2	0	0	0	0	0	0	0
3/4	2,108.99	3/4	1,777.68	3/4	1,446.37	3/4	1,115.06	3/4	790.54	3/4	488.25	3/4	209.45	3/4	0	0	0	0	0	0	0
0	2,102.09	0	1,770.78	0	1,439.47	0	1,108.16	0	784.02	0	482.21	0	203.89	0	0	0	0	0	0	0	0
1/4	2,095.19	1/4	1,763.88	1/4	1,432.56	1/4	1,101.25	1/4	777.50	1/4	476.17	1/4	198.34	1/4	0	0	0	0	0	0	0
1/2	2,088.28	1/2	1,756.97	1/2	1,425.66	1/2	1,094.35	1/2	770.98	1/2	470.13	1/2	192.79	1/2	0	0	0	0	0	0	0
3/4	2,081.38	3/4	1,750.07	3/4	1,418.76	3/4	1,087.45	3/4	764.50	3/4	464.12	3/4	187.28	3/4	0	0	0	0	0	0	0
0	2,074.48	0	1,743.17	0	1,411.86	0	1,080.55	0	758.02	0	458.12	0	181.77	0	0	0	0	0	0	0	0
1/4	2,067.58	1/4	1,736.27	1/4	1,404.96	1/4	1,073.65	1/4	751.54	1/4	452.11	1/4	176.25	1/4	0	0	0	0	0	0	0
1/2	2,060.67	1/2	1,729.36	1/2	1,398.05	1/2	1,066.75	1/2	745.07	1/2	446.11	1/2	170.74	1/2	0	0	0	0	0	0	0
3/4	2,053.77	3/4	1,722.46	3/4	1,391.15	3/4	1,059.85	3/4	738.61	3/4	440.15	3/4	165.27	3/4	0	0	0	0	0	0	0
0	2,046.87	0	1,715.56	0	1,384.25	0	1,052.96	0	732.16	0	434.19	0	159.80	0	0	0	0	0	0	0	0
1/4	2,039.97	1/4	1,708.66	1/4	1,377.35	1/4	1,046.07	1/4	725.71	1/4	428.23	1/4	154.33	1/4	0	0	0	0	0	0	0
1/2	2,033.06	1/2	1,701.75	1/2	1,370.44	1/2	1,039.17	1/2	719.25	1/2	422.27	1/2	148.86	1/2	0	0	0	0	0	0	0
3/4	2,026.16	3/4	1,694.85	3/4	1,363.54	3/4	1,032.30	3/4	712.84	3/4	416.34	3/4	143.43	3/4	0	0	0	0	0	0	0
0	2,019.26	0	1,687.95	0	1,356.64	0	1,025.42	0	706.43	0	410.42	0	138.00	0	0	0	0	0	0	0	0
1/4	2,012.36	1/4	1,681.05	1/4	1,349.74	1/4	1,018.54	1/4	700.01	1/4	404.50	1/4	132.56	1/4	0	0	0	0	0	0	0
1/2	2,005.46	1/2	1,674.15	1/2	1,342.84	1/2	1,011.66	1/2	693.60	1/2	398.58	1/2	127.13	1/2	0	0	0	0	0	0	0
3/4	1,998.56	3/4	1,667.24	3/4	1,335.93	3/4	1,004.81	3/4	687.23	3/4	392.70	3/4	121.74	3/4	0	0	0	0	0	0	0
0	1,991.65	0	1,660.34	0	1,329.03	0	997.96	0	680.86	0	386.82	0	116.35	0	0	0	0	0	0	0	0
1/4	1,984.75	1/4	1,653.44	1/4	1,322.13	1/4	991.10	1/4	674.49	1/4	380.94	1/4	110.97	1/4	0	0	0	0	0	0	0
1/2	1,977.85	1/2	1,646.54	1/2	1,315.23	1/2	984.25	1/2	668.12	1/2	375.06	1/2	105.59	1/2	0	0	0	0	0	0	0
3/4	1,970.94	3/4	1,639.63	3/4	1,308.33	3/4	977.43	3/4	661.79	3/4	369.22	3/4	100.24	3/4	0	0	0	0	0	0	0
0	1,964.04	0	1,632.73	0	1,301.42	0	970.61	0	655.45	0	363.38	0	94.89	0	0	0	0	0	0	0	0
1/4	1,957.14	1/4	1,625.83	1/4	1,294.52	1/4	963.79	1/4	649.12	1/4	357.54	1/4	89.55	1/4	0	0	0	0	0	0	0
1/2	1,950.24	1/2	1,618.93	1/2	1,287.62	1/2	956.97	1/2	642.79	1/2	351.70	1/2	84.20	1/2	0	0	0	0	0	0	0
3/4	1,943.34	3/4	1,612.02	3/4	1,280.71	3/4	950.20	3/4	636.50	3/4	345.90	3/4	78.90	3/4	0	0	0	0	0	0	0
0	1,936.43	0	1,605.12	0	1,273.81	0	943.44	0	630.21	0	340.11	0	73.59	0	0	0	0	0	0	0	0
1/4	1,929.53	1/4	1,598.22	1/4	1,266.91	1/4	936.67	1/4	623.93	1/4	334.31	1/4	68.29	1/4	0	0	0	0	0	0	0
1/2	1,922.63	1/2	1,591.32	1/2	1,260.01	1/2	929.91	1/2	617.64	1/2	328.51	1/2	62.99	1/2	0	0	0	0	0	0	0
3/4	1,915.73	3/4	1,584.42	3/4	1,253.11	3/4	923.18	3/4	611.39	3/4	322.75	3/4	57.72	3/4	0	0	0	0	0	0	0
0	1,908.82	0	1,577.51	0	1,246.20	0	916.46	0	605.14	0	316.99	0	52.46	0	0	0	0	0	0	0	0
1/4	1,901.92	1/4	1,570.61	1/4	1,239.30	1/4	909.73	1/4	598.89	1/4	311.24	1/4	47.19	1/4	0	0	0	0	0	0	0
1/2	1,895.02	1/2	1,563.71	1/2	1,232.40	1/2	903.01	1/2	592.64	1/2	305.48	1/2	41.93	1/2	0	0	0	0	0	0	0
3/4	1,888.12	3/4	1,556.81	3/4	1,225.50	3/4	896.33	3/4	586.43	3/4	299.76	3/4	37.57	3/4	0	0	0	0	0	0	0
0	1,881.21	0	1,549.90	0	1,218.59	0	889.64	0	580.22	0	294.05	0	33.21	0	0	0	0	0	0	0	0
1/4	1,874.31	1/4	1,543.00	1/4	1,211.69	1/4	882.96	1/4	574.02	1/4	288.33	1/4	28.86	1/4	0	0	0	0	0	0	0
1/2	1,867.41	1/2	1,536.10	1/2	1,204.79	1/2	876.28	1/2	567.81	1/2	282.62	1/2	24.50	1/2	0	0	0	0	0	0	0
3/4	1,860.51	3/4	1,529.20	3/4	1,197.89	3/4	869.63	3/4	561.64	3/4	276.94	3/4	21.91	3/4	0	0	0	0	0	0	0
0	1,853.61	0	1,522.29	0	1,190.98	0	862.99	0	555.48	0	271.26	0	19.31	0	0	0	0	0	0	0	0
1/4	1,846.70	1/4	1,515.39	1/4	1,184.08	1/4	856.35	1/4	549.31	1/4	265.59	1/4	16.72	1/4	0	0	0	0	0	0	0
1/2	1,839.80	1/2	1,508.49	1/2	1,177.18	1/2	849.71	1/2	543.14	1/2	259.91	1/2	14.13	1/2	0	0	0	0	0	0	0
3/4	1,832.90	3/4	1,501.59	3/4	1,170.28	3/4	843.11	3/4	537.02	3/4	254.28	3/4	11.54	3/4	0	0	0	0	0	0	0
0	1,826.00	0	1,494.69	0	1,163.38	0	836.50	0	530.89	0	248.64	0	9.95	0	0	0	0	0	0	0	0
1/4	1,819.09	1/4	1,487.78	1/4	1,156.47	1/4	829.90	1/4	524.77	1/4	243.01	1/4	8.36	1/4	0	0	0	0	0	0	0
1/2	1,812.19	1/2	1,480.88	1/2	1,149.57	1/2	823.30	1/2	518.64	1/2	237.38	1/2	6.77	1/2	0	0	0	0	0	0	0
3/4	1,805.29	3/4	1,473.98	3/4	1,142.67	3/4	816.74	3/4	512.55	3/4	231.78	3/4	5.18	3/4	0	0	0	0	0	0	0

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY

STRAPPED: 03/28/2004 CL - 8W  
CALCULATED: 03/30/2004 CL  
PRINTED: 03/28/2004 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 03/2004

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77688  
http://www.ipmacorp.net



# BARGE "KIRBY 28029"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE 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.	
N	H	N	H	N	H	N	H	N	H	N	H	N	H	N	H	N	H	N	H
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 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4
2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2
2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4
3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2
3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4
4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4
4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2
4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4
5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2
5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4
6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4
6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2
6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4
7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4
7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2
7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4
8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4
8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2
8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4
9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4
9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2
9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	9 3/4
10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4
10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2
10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4
11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4
11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2
11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	11 3/4
12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
12 1/4	12 1/4	12 1/4	12 1/4	12 1/4	12 1/4	12 1/4	12 1/4	12 1/4	12 1/4	12 1/4	12 1/4	12 1/4	12 1/4	12 1/4	12 1/4	12 1/4	12 1/4	12 1/4	12 1/4
12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2
12 3/4	12 3/4	12 3/4	12 3/4	12 3/4	12 3/4	12 3/4	12 3/4	12 3/4	12 3/4	12 3/4	12 3/4	12 3/4	12 3/4	12 3/4	12 3/4	12 3/4	12 3/4	12 3/4	12 3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API 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 OBSERVED WITH "HERMETIC" CLOSED GAUGING DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 13'-09" OFF CENTERLINE AND 37'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 2092  
 Pearland, Texas 77468  
<http://www.pmaacorp.net>





# BARGE "KIRBY 28029"

## 1 STBD ULLAGE TABLE

GAUGE HEIGHT 16'-10 1/2"

CAPACITIES GIVEN IN WHOLE 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.	
H	W	H	W	H	W	H	W	H	W	H	W	H	W	H	W	H	W	H	W	H	W
0	6	2,127.36	0	1,795.14	0	1,464.92	0	1,133.69	0	809.31	0	506.33	0	226.12	0						
1/4	1/4	2,120.46	1/4	1,789.24	1/4	1,458.02	1/4	1,126.79	1/4	802.79	1/4	500.24	1/4	220.53	1/4						
1/2	1/2	2,113.56	1/2	1,782.34	1/2	1,451.12	1/2	1,119.89	1/2	796.26	1/2	494.16	1/2	214.93	1/2						
3/4	3/4	2,106.66	3/4	1,775.44	3/4	1,444.21	3/4	1,112.99	3/4	789.79	3/4	488.12	3/4	209.39	3/4						
1	1	2,099.76	1	1,768.54	1	1,437.31	1	1,106.09	1	783.31	1	482.03	1	203.84	1						
1 1/4	1 1/4	2,092.86	1 1/4	1,761.64	1 1/4	1,430.41	1 1/4	1,099.19	1 1/4	776.83	1 1/4	475.08	1 1/4	198.29	1 1/4						
1 1/2	1 1/2	2,085.96	1 1/2	1,754.74	1 1/2	1,423.51	1 1/2	1,092.29	1 1/2	770.35	1 1/2	469.99	1 1/2	192.74	1 1/2						
1 3/4	1 3/4	2,079.06	1 3/4	1,747.84	1 3/4	1,416.61	1 3/4	1,085.39	1 3/4	763.91	1 3/4	463.99	1 3/4	187.23	1 3/4						
2	2	2,072.16	2	1,740.94	2	1,409.71	2	1,078.49	2	757.43	2	457.99	2	181.71	2						
2 1/4	2 1/4	2,065.26	2 1/4	1,734.04	2 1/4	1,402.81	2 1/4	1,071.59	2 1/4	751.03	2 1/4	451.99	2 1/4	176.20	2 1/4						
2 1/2	2 1/2	2,058.36	2 1/2	1,727.14	2 1/2	1,395.91	2 1/2	1,064.69	2 1/2	744.59	2 1/2	445.98	2 1/2	170.69	2 1/2						
2 3/4	2 3/4	2,051.46	2 3/4	1,720.23	2 3/4	1,389.01	2 3/4	1,057.80	2 3/4	738.18	2 3/4	440.02	2 3/4	165.22	2 3/4						
3	3	2,044.56	3	1,713.33	3	1,382.11	3	1,050.91	3	731.76	3	434.07	3	159.75	3						
3 1/4	3 1/4	2,037.66	3 1/4	1,706.43	3 1/4	1,375.21	3 1/4	1,044.02	3 1/4	725.35	3 1/4	428.11	3 1/4	154.29	3 1/4						
3 1/2	3 1/2	2,030.76	3 1/2	1,699.53	3 1/2	1,368.31	3 1/2	1,037.13	3 1/2	718.93	3 1/2	422.15	3 1/2	148.82	3 1/2						
3 3/4	3 3/4	2,023.86	3 3/4	1,692.63	3 3/4	1,361.41	3 3/4	1,030.25	3 3/4	712.55	3 3/4	416.23	3 3/4	143.39	3 3/4						
4	4	2,016.96	4	1,685.73	4	1,354.51	4	1,023.37	4	706.17	4	410.31	4	137.96	4						
4 1/4	4 1/4	2,010.06	4 1/4	1,678.83	4 1/4	1,347.61	4 1/4	1,016.50	4 1/4	699.79	4 1/4	404.39	4 1/4	132.53	4 1/4						
4 1/2	4 1/2	2,003.16	4 1/2	1,671.93	4 1/2	1,340.71	4 1/2	1,009.62	4 1/2	693.41	4 1/2	398.46	4 1/2	127.09	4 1/2						
4 3/4	4 3/4	1,996.26	4 3/4	1,665.03	4 3/4	1,333.81	4 3/4	1,002.80	4 3/4	687.04	4 3/4	392.59	4 3/4	121.71	4 3/4						
5	5	1,989.35	5	1,658.13	5	1,326.91	5	995.98	5	680.67	5	386.71	5	116.33	5						
5 1/4	5 1/4	1,982.45	5 1/4	1,651.23	5 1/4	1,320.01	5 1/4	989.16	5 1/4	674.30	5 1/4	380.83	5 1/4	110.94	5 1/4						
5 1/2	5 1/2	1,975.55	5 1/2	1,644.33	5 1/2	1,313.11	5 1/2	982.34	5 1/2	667.93	5 1/2	374.96	5 1/2	105.56	5 1/2						
5 3/4	5 3/4	1,968.65	5 3/4	1,637.43	5 3/4	1,306.20	5 3/4	975.55	5 3/4	661.50	5 3/4	369.12	5 3/4	100.21	5 3/4						
6	6	1,961.75	6	1,630.53	6	1,299.30	6	968.77	6	655.27	6	363.28	6	94.87	6						
6 1/4	6 1/4	1,954.85	6 1/4	1,623.63	6 1/4	1,292.40	6 1/4	961.99	6 1/4	648.94	6 1/4	357.44	6 1/4	89.52	6 1/4						
6 1/2	6 1/2	1,947.95	6 1/2	1,616.73	6 1/2	1,285.50	6 1/2	955.20	6 1/2	642.61	6 1/2	351.60	6 1/2	84.17	6 1/2						
6 3/4	6 3/4	1,941.05	6 3/4	1,609.83	6 3/4	1,278.60	6 3/4	948.48	6 3/4	636.32	6 3/4	345.80	6 3/4	78.87	6 3/4						
7	7	1,934.16	7	1,602.93	7	1,271.70	7	941.75	7	630.04	7	340.01	7	73.57	7						
7 1/4	7 1/4	1,927.25	7 1/4	1,596.03	7 1/4	1,264.80	7 1/4	935.03	7 1/4	623.75	7 1/4	334.21	7 1/4	68.27	7 1/4						
7 1/2	7 1/2	1,920.35	7 1/2	1,589.13	7 1/2	1,257.90	7 1/2	928.31	7 1/2	617.46	7 1/2	328.42	7 1/2	62.97	7 1/2						
7 3/4	7 3/4	1,913.45	7 3/4	1,582.22	7 3/4	1,251.00	7 3/4	921.62	7 3/4	611.21	7 3/4	322.66	7 3/4	57.71	7 3/4						
8	8	1,906.55	8	1,575.32	8	1,244.10	8	914.94	8	604.97	8	316.90	8	52.44	8						
8 1/4	8 1/4	1,899.65	8 1/4	1,568.42	8 1/4	1,237.20	8 1/4	908.25	8 1/4	598.72	8 1/4	311.15	8 1/4	47.18	8 1/4						
8 1/2	8 1/2	1,892.75	8 1/2	1,561.52	8 1/2	1,230.30	8 1/2	901.57	8 1/2	592.47	8 1/2	305.39	8 1/2	41.92	8 1/2						
8 3/4	8 3/4	1,885.85	8 3/4	1,554.62	8 3/4	1,223.40	8 3/4	894.93	8 3/4	586.27	8 3/4	299.68	8 3/4	37.66	8 3/4						
9	9	1,878.95	9	1,547.72	9	1,216.50	9	888.28	9	580.06	9	293.96	9	33.20	9						
9 1/4	9 1/4	1,872.05	9 1/4	1,540.82	9 1/4	1,209.60	9 1/4	881.64	9 1/4	573.86	9 1/4	288.25	9 1/4	28.85	9 1/4						
9 1/2	9 1/2	1,865.15	9 1/2	1,533.92	9 1/2	1,202.70	9 1/2	875.00	9 1/2	567.65	9 1/2	282.54	9 1/2	24.49	9 1/2						
9 3/4	9 3/4	1,858.24	9 3/4	1,527.02	9 3/4	1,195.80	9 3/4	868.40	9 3/4	561.48	9 3/4	276.86	9 3/4	21.90	9 3/4						
10	10	1,851.34	10	1,520.12	10	1,188.90	10	861.79	10	555.32	10	271.19	10	19.31	10						
10 1/4	10 1/4	1,844.44	10 1/4	1,513.22	10 1/4	1,182.00	10 1/4	855.19	10 1/4	549.15	10 1/4	265.51	10 1/4	16.72	10 1/4						
10 1/2	10 1/2	1,837.54	10 1/2	1,506.32	10 1/2	1,175.10	10 1/2	848.59	10 1/2	542.99	10 1/2	259.84	10 1/2	14.12	10 1/2						
10 3/4	10 3/4	1,830.64	10 3/4	1,499.42	10 3/4	1,168.19	10 3/4	842.03	10 3/4	536.86	10 3/4	254.20	10 3/4	11.51	10 3/4						
11	11	1,823.74	11	1,492.52	11	1,161.29	11	835.47	11	530.74	11	248.57	11	9.91	11						
11 1/4	11 1/4	1,816.84	11 1/4	1,485.62	11 1/4	1,154.39	11 1/4	828.91	11 1/4	524.62	11 1/4	242.94	11 1/4	8.31	11 1/4						
11 1/2	11 1/2	1,809.94	11 1/2	1,478.72	11 1/2	1,147.49	11 1/2	822.35	11 1/2	518.49	11 1/2	237.31	11 1/2	6.71	11 1/2						
11 3/4	11 3/4	1,803.04	11 3/4	1,471.82	11 3/4	1,140.59	11 3/4	815.83	11 3/4	512.41	11 3/4	231.72	11 3/4	5.11	11 3/4						

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/25/2004 CL - SW  
CALCULATED: 03/26/2004 CL  
PRINTED: 03/26/2004 CL

GANCELS AND SUPERCEDES  
ALL PRIOR TO 03/2004

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77649  
http://www.pmtacord.net





# BARGE "KIRBY 28029"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE 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.	
N	M	N	M	N	M	N	M	N	M	N	M	N	M	N	M	N	M	N	M
0	2,661.66	0	2,273.11	0	1,884.56	0	1,496.01	0	1,107.46	0	719.42	0	331.46	0	0	0	0	0	0
1/4	2,653.57	1/4	2,265.02	1/4	1,876.47	1/4	1,487.92	1/4	1,099.37	1/4	711.35	1/4	323.38	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,645.47	1/2	2,256.92	1/2	1,868.37	1/2	1,479.82	1/2	1,091.27	1/2	703.26	1/2	315.29	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,637.38	3/4	2,248.83	3/4	1,860.28	3/4	1,471.73	3/4	1,083.18	3/4	695.21	3/4	307.21	3/4	3/4	3/4	3/4	3/4	3/4
1	2,629.28	1	2,240.73	1	1,852.18	1	1,463.63	1	1,075.08	1	687.14	1	299.12	1	1	1	1	1	1
1/4	2,621.19	1/4	2,232.64	1/4	1,844.09	1/4	1,455.54	1/4	1,066.99	1/4	679.07	1/4	291.03	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,613.09	1/2	2,224.54	1/2	1,835.99	1/2	1,447.44	1/2	1,058.89	1/2	671.00	1/2	282.95	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,605.00	3/4	2,216.45	3/4	1,827.90	3/4	1,439.35	3/4	1,050.80	3/4	662.93	3/4	274.86	3/4	3/4	3/4	3/4	3/4	3/4
1	2,596.91	1	2,208.35	1	1,819.80	1	1,431.25	1	1,042.70	1	654.86	1	266.78	1	1	1	1	1	1
1/4	2,588.81	1/4	2,200.26	1/4	1,811.71	1/4	1,423.16	1/4	1,034.61	1/4	646.79	1/4	258.69	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,580.72	1/2	2,192.17	1/2	1,803.61	1/2	1,415.06	1/2	1,026.51	1/2	638.71	1/2	250.60	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,572.62	3/4	2,184.07	3/4	1,795.52	3/4	1,406.97	3/4	1,018.42	3/4	630.63	3/4	242.52	3/4	3/4	3/4	3/4	3/4	3/4
1	2,564.53	1	2,175.98	1	1,787.43	1	1,398.87	1	1,010.32	1	622.56	1	234.43	1	1	1	1	1	1
1/4	2,556.43	1/4	2,167.88	1/4	1,779.33	1/4	1,390.78	1/4	1,002.23	1/4	614.48	1/4	226.34	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,548.34	1/2	2,159.79	1/2	1,771.24	1/2	1,382.69	1/2	994.13	1/2	606.39	1/2	218.26	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,540.24	3/4	2,151.69	3/4	1,763.14	3/4	1,374.59	3/4	986.04	3/4	598.31	3/4	210.17	3/4	3/4	3/4	3/4	3/4	3/4
1	2,532.15	1	2,143.60	1	1,755.05	1	1,366.50	1	977.95	1	590.22	1	202.09	1	1	1	1	1	1
1/4	2,524.05	1/4	2,135.50	1/4	1,746.95	1/4	1,358.40	1/4	969.85	1/4	582.13	1/4	194.00	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,515.96	1/2	2,127.41	1/2	1,738.86	1/2	1,350.31	1/2	961.76	1/2	574.05	1/2	185.91	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,507.86	3/4	2,119.31	3/4	1,730.76	3/4	1,342.21	3/4	953.66	3/4	565.96	3/4	177.83	3/4	3/4	3/4	3/4	3/4	3/4
1	2,499.77	1	2,111.22	1	1,722.67	1	1,334.12	1	945.57	1	557.88	1	169.74	1	1	1	1	1	1
1/4	2,491.67	1/4	2,103.12	1/4	1,714.57	1/4	1,326.02	1/4	937.47	1/4	549.79	1/4	161.66	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,483.58	1/2	2,095.03	1/2	1,706.48	1/2	1,317.93	1/2	929.38	1/2	541.70	1/2	153.57	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,475.48	3/4	2,086.93	3/4	1,698.38	3/4	1,309.83	3/4	921.28	3/4	533.62	3/4	145.48	3/4	3/4	3/4	3/4	3/4	3/4
1	2,467.39	1	2,078.84	1	1,690.29	1	1,301.74	1	913.19	1	525.53	1	137.40	1	1	1	1	1	1
1/4	2,459.29	1/4	2,070.74	1/4	1,682.19	1/4	1,293.64	1/4	905.09	1/4	517.44	1/4	129.31	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,451.20	1/2	2,062.65	1/2	1,674.10	1/2	1,285.55	1/2	897.01	1/2	509.36	1/2	121.23	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,443.10	3/4	2,054.55	3/4	1,666.00	3/4	1,277.45	3/4	888.93	3/4	501.27	3/4	113.14	3/4	3/4	3/4	3/4	3/4	3/4
1	2,435.01	1	2,046.46	1	1,657.91	1	1,269.36	1	880.84	1	493.19	1	105.05	1	1	1	1	1	1
1/4	2,426.91	1/4	2,038.36	1/4	1,649.81	1/4	1,261.26	1/4	872.76	1/4	485.10	1/4	96.97	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,418.82	1/2	2,030.27	1/2	1,641.72	1/2	1,253.17	1/2	864.69	1/2	477.01	1/2	88.88	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,410.72	3/4	2,022.17	3/4	1,633.62	3/4	1,245.07	3/4	856.62	3/4	468.93	3/4	80.80	3/4	3/4	3/4	3/4	3/4	3/4
1	2,402.63	1	2,014.08	1	1,625.53	1	1,236.98	1	848.55	1	460.84	1	72.71	1	1	1	1	1	1
1/4	2,394.54	1/4	2,005.98	1/4	1,617.43	1/4	1,228.88	1/4	840.48	1/4	452.76	1/4	64.62	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,386.44	1/2	1,997.89	1/2	1,609.34	1/2	1,220.79	1/2	832.41	1/2	444.67	1/2	57.55	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,378.35	3/4	1,989.80	3/4	1,601.24	3/4	1,212.69	3/4	824.34	3/4	436.58	3/4	50.47	3/4	3/4	3/4	3/4	3/4	3/4
1	2,370.25	1	1,981.70	1	1,593.15	1	1,204.60	1	816.27	1	428.50	1	43.40	1	1	1	1	1	1
1/4	2,362.16	1/4	1,973.61	1/4	1,585.06	1/4	1,196.50	1/4	808.20	1/4	420.41	1/4	36.32	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,354.06	1/2	1,965.51	1/2	1,576.96	1/2	1,188.41	1/2	800.13	1/2	412.33	1/2	31.27	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,345.97	3/4	1,957.42	3/4	1,568.87	3/4	1,180.32	3/4	792.06	3/4	404.24	3/4	26.22	3/4	3/4	3/4	3/4	3/4	3/4
1	2,337.87	1	1,949.32	1	1,560.77	1	1,172.22	1	783.99	1	396.15	1	21.17	1	1	1	1	1	1
1/4	2,329.78	1/4	1,941.23	1/4	1,552.68	1/4	1,164.13	1/4	775.92	1/4	388.07	1/4	18.12	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,321.68	1/2	1,933.13	1/2	1,544.58	1/2	1,156.03	1/2	767.85	1/2	379.98	1/2	15.07	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,313.59	3/4	1,925.04	3/4	1,536.49	3/4	1,147.94	3/4	759.78	3/4	371.89	3/4	12.02	3/4	3/4	3/4	3/4	3/4	3/4
1	2,305.49	1	1,916.94	1	1,528.39	1	1,139.84	1	751.71	1	363.81	1	9.97	1	1	1	1	1	1
1/4	2,297.40	1/4	1,908.85	1/4	1,520.30	1/4	1,131.75	1/4	743.64	1/4	355.72	1/4	7.92	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,289.30	1/2	1,900.75	1/2	1,512.20	1/2	1,123.65	1/2	735.57	1/2	347.64	1/2	5.87	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,281.21	3/4	1,892.66	3/4	1,504.11	3/4	1,115.56	3/4	727.50	3/4	339.55	3/4	3.82	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY

STRAPPED: 02/26/2004 CL - SW  
 CALCULATED: 03/26/2004 CL  
 PRINTED: 03/26/2004 CL  
 CANCELS AND SUPERCEDES  
 ALL PRIOR TO 03/2004

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 2092  
 Pearland, Texas 77668  
 http://www.pmacorp.net





# BARGE "KIRBY 28029"

# 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE 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.	
W	H	W	H	W	H	W	H	W	H	W	H	W	H	W	H	W	H	W	H
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API 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 GALGES OBSERVED WITH "HERMETIC" CLOSED GAUGING DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 17'-0" OFF CENTERLINE AND 44'-3" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 2092  
 Pearland, Texas 77668  
<http://www.pmacorp.net>

*[Signature]*



# BARGE "KIRBY 28029"

# 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS GAUGE HEIGHT 16'-10 1/2"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
N	1/4	N	1/4	N	1/4	N	1/4	N	1/4	N	1/4	N	1/4	N	1/4	N	1/4	N	1/4
0	2,657.82	0	2,269.98	0	1,880.14	0	1,491.30	0	1,102.46	0	722.79	0	340.51	0		0		0	
1/4	2,649.72	1/4	2,260.88	1/4	1,872.04	1/4	1,483.20	1/4	1,094.36	1/4	716.03	1/4	332.41	1/4		1/4		1/4	
1/2	2,641.62	1/2	2,252.78	1/2	1,863.94	1/2	1,475.10	1/2	1,086.26	1/2	707.26	1/2	324.31	1/2		1/2		1/2	
3/4	2,633.52	3/4	2,244.68	3/4	1,855.84	3/4	1,467.00	3/4	1,078.16	3/4	699.50	3/4	316.21	3/4		3/4		3/4	
1	2,625.42	1	2,236.58	1	1,847.74	1	1,458.90	1	1,070.06	1	691.73	1	308.11	1		1		1	
1 1/4	2,617.31	1 1/4	2,228.48	1 1/4	1,839.64	1 1/4	1,450.80	1 1/4	1,061.96	1 1/4	683.97	1 1/4	300.01	1 1/4		1 1/4		1 1/4	
1 1/2	2,609.21	1 1/2	2,220.38	1 1/2	1,831.54	1 1/2	1,442.70	1 1/2	1,053.86	1 1/2	676.21	1 1/2	291.92	1 1/2		1 1/2		1 1/2	
3/4	2,601.11	3/4	2,212.28	3/4	1,823.44	3/4	1,434.60	3/4	1,045.76	3/4	668.44	3/4	283.82	3/4		3/4		3/4	
2	2,593.01	2	2,204.17	2	1,815.34	2	1,426.50	2	1,037.66	2	660.68	2	275.72	2		2		2	
1 1/4	2,584.91	1 1/4	2,196.07	1 1/4	1,807.23	1 1/4	1,418.40	1 1/4	1,029.56	1 1/4	652.91	1 1/4	267.62	1 1/4		1 1/4		1 1/4	
1 1/2	2,576.81	1 1/2	2,187.97	1 1/2	1,799.13	1 1/2	1,410.30	1 1/2	1,021.46	1 1/2	645.15	1 1/2	259.52	1 1/2		1 1/2		1 1/2	
3/4	2,568.71	3/4	2,179.87	3/4	1,791.03	3/4	1,402.19	3/4	1,013.36	3/4	637.37	3/4	251.42	3/4		3/4		3/4	
3	2,560.61	3	2,171.77	3	1,782.93	3	1,394.09	3	1,005.26	3	629.60	3	243.32	3		3		3	
1 1/4	2,552.51	1 1/4	2,163.67	1 1/4	1,774.83	1 1/4	1,385.99	1 1/4	997.15	1 1/4	621.83	1 1/4	235.22	1 1/4		1 1/4		1 1/4	
1 1/2	2,544.41	1 1/2	2,155.57	1 1/2	1,766.73	1 1/2	1,377.89	1 1/2	989.05	1 1/2	614.05	1 1/2	227.12	1 1/2		1 1/2		1 1/2	
3/4	2,536.31	3/4	2,147.47	3/4	1,758.63	3/4	1,369.79	3/4	980.95	3/4	606.26	3/4	219.02	3/4		3/4		3/4	
4	2,528.21	4	2,139.37	4	1,750.53	4	1,361.69	4	972.85	4	598.47	4	210.92	4		4		4	
1 1/4	2,520.10	1 1/4	2,131.27	1 1/4	1,742.43	1 1/4	1,353.59	1 1/4	964.75	1 1/4	590.69	1 1/4	202.82	1 1/4		1 1/4		1 1/4	
1 1/2	2,512.00	1 1/2	2,123.17	1 1/2	1,734.33	1 1/2	1,345.49	1 1/2	956.65	1 1/2	582.90	1 1/2	194.72	1 1/2		1 1/2		1 1/2	
3/4	2,503.90	3/4	2,115.06	3/4	1,726.23	3/4	1,337.39	3/4	948.70	3/4	574.95	3/4	186.62	3/4		3/4		3/4	
5	2,495.80	5	2,106.96	5	1,718.13	5	1,329.29	5	940.75	5	567.00	5	178.52	5		5		5	
1 1/4	2,487.70	1 1/4	2,098.86	1 1/4	1,710.02	1 1/4	1,321.19	1 1/4	932.81	1 1/4	559.06	1 1/4	170.42	1 1/4		1 1/4		1 1/4	
1 1/2	2,479.60	1 1/2	2,090.76	1 1/2	1,701.92	1 1/2	1,313.09	1 1/2	924.86	1 1/2	551.11	1 1/2	162.32	1 1/2		1 1/2		1 1/2	
3/4	2,471.50	3/4	2,082.66	3/4	1,693.82	3/4	1,304.98	3/4	917.07	3/4	543.01	3/4	154.22	3/4		3/4		3/4	
6	2,463.40	6	2,074.56	6	1,685.72	6	1,296.88	6	909.28	6	534.91	6	146.12	6		6		6	
1 1/4	2,455.30	1 1/4	2,066.46	1 1/4	1,677.62	1 1/4	1,288.78	1 1/4	901.48	1 1/4	526.81	1 1/4	138.02	1 1/4		1 1/4		1 1/4	
1 1/2	2,447.20	1 1/2	2,058.36	1 1/2	1,669.52	1 1/2	1,280.68	1 1/2	893.69	1 1/2	518.71	1 1/2	129.92	1 1/2		1 1/2		1 1/2	
3/4	2,439.10	3/4	2,050.26	3/4	1,661.42	3/4	1,272.58	3/4	885.92	3/4	510.61	3/4	121.82	3/4		3/4		3/4	
7	2,431.00	7	2,042.16	7	1,653.32	7	1,264.48	7	878.14	7	502.51	7	113.72	7		7		7	
1 1/4	2,422.90	1 1/4	2,034.06	1 1/4	1,645.22	1 1/4	1,256.38	1 1/4	870.38	1 1/4	494.41	1 1/4	105.62	1 1/4		1 1/4		1 1/4	
1 1/2	2,414.79	1 1/2	2,025.96	1 1/2	1,637.12	1 1/2	1,248.28	1 1/2	862.59	1 1/2	486.31	1 1/2	97.52	1 1/2		1 1/2		1 1/2	
3/4	2,406.69	3/4	2,017.86	3/4	1,629.02	3/4	1,240.18	3/4	854.82	3/4	478.21	3/4	89.42	3/4		3/4		3/4	
8	2,398.59	8	2,009.75	8	1,620.92	8	1,232.08	8	847.06	8	470.11	8	81.32	8		8		8	
1 1/4	2,390.49	1 1/4	2,001.65	1 1/4	1,612.82	1 1/4	1,223.98	1 1/4	839.29	1 1/4	462.01	1 1/4	73.22	1 1/4		1 1/4		1 1/4	
1 1/2	2,382.39	1 1/2	1,993.55	1 1/2	1,604.71	1 1/2	1,215.88	1 1/2	831.52	1 1/2	453.91	1 1/2	65.12	1 1/2		1 1/2		1 1/2	
3/4	2,374.29	3/4	1,985.45	3/4	1,596.61	3/4	1,207.78	3/4	823.76	3/4	445.81	3/4	57.03	3/4		3/4		3/4	
9	2,366.19	9	1,977.35	9	1,588.51	9	1,199.67	9	815.99	9	437.71	9	50.94	9		9		9	
1 1/4	2,358.09	1 1/4	1,969.25	1 1/4	1,580.41	1 1/4	1,191.57	1 1/4	808.22	1 1/4	429.61	1 1/4	43.85	1 1/4		1 1/4		1 1/4	
1 1/2	2,349.99	1 1/2	1,961.15	1 1/2	1,572.31	1 1/2	1,183.47	1 1/2	800.46	1 1/2	421.51	1 1/2	36.76	1 1/2		1 1/2		1 1/2	
3/4	2,341.89	3/4	1,953.05	3/4	1,564.21	3/4	1,175.37	3/4	792.69	3/4	413.41	3/4	31.70	3/4		3/4		3/4	
10	2,333.79	10	1,944.95	10	1,556.11	10	1,167.27	10	784.92	10	405.31	10	26.64	10		10		10	
1 1/4	2,325.69	1 1/4	1,936.85	1 1/4	1,548.01	1 1/4	1,159.17	1 1/4	777.16	1 1/4	397.21	1 1/4	21.57	1 1/4		1 1/4		1 1/4	
1 1/2	2,317.58	1 1/2	1,928.75	1 1/2	1,539.91	1 1/2	1,151.07	1 1/2	769.39	1 1/2	389.11	1 1/2	16.51	1 1/2		1 1/2		1 1/2	
3/4	2,309.48	3/4	1,920.65	3/4	1,531.81	3/4	1,142.97	3/4	761.63	3/4	381.01	3/4		3/4		3/4		3/4	
11	2,301.38	11	1,912.54	11	1,523.71	11	1,134.87	11	753.86	11	372.91	11		11		11		11	
1 1/4	2,293.28	1 1/4	1,904.44	1 1/4	1,515.61	1 1/4	1,126.77	1 1/4	746.09	1 1/4	364.81	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	2,285.18	1 1/2	1,896.34	1 1/2	1,507.50	1 1/2	1,118.67	1 1/2	738.33	1 1/2	356.71	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	2,277.08	3/4	1,888.24	3/4	1,499.40	3/4	1,110.57	3/4	730.56	3/4	348.61	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03262904 CL - 8W  
 CALCULATED: 03302904 CL  
 PRINTED: 03302904 CL  
 CANCELS AND SUPERCEDES  
 ALL PRIOR TO 032904

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 3092  
 Pearland, Texas 77588  
 Http://www.pma-inc.net



# BARGE "KIRBY 28029"

# 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE 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.	
N	W	N	W	N	W	N	W	N	W	N	W	N	W	N	W	N	W	N	W
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 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4
2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2
2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4
3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2
3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4
4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4
4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2
4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4
5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2
5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4
6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4
6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2
6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4
7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4
7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2
7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4
8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4
8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2
8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4
9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4
9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2
9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	9 3/4
10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4
10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2
10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4
11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4
11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2
11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	11 3/4
12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
12 1/4	12 1/4	12 1/4	12 1/4	12 1/4	12 1/4	12 1/4	12 1/4	12 1/4	12 1/4	12 1/4	12 1/4	12 1/4	12 1/4	12 1/4	12 1/4	12 1/4	12 1/4	12 1/4	12 1/4
12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2
12 3/4	12 3/4	12 3/4	12 3/4	12 3/4	12 3/4	12 3/4	12 3/4	12 3/4	12 3/4	12 3/4	12 3/4	12 3/4	12 3/4	12 3/4	12 3/4	12 3/4	12 3/4	12 3/4	12 3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES OBSERVED WITH "HERMETIC" CLOSED GAUGING DEVICE.  
 GAUGE POINT (HERMETIC) LOCATED 12.98" OFF CENTERLINE AND 48.98" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 2093  
 Pearland, Texas 77588  
<http://www.pmaacorp.net>



# BARGE "KIRBY 28029"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE 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.	
M	N	M	N	M	N	M	N	M	N	M	N	M	N	M	N	M	N	M	N
0	2,480.83	0	2,119.92	0	1,759.02	0	1,398.12	0	1,037.46	0	677.11	0	316.22	0		0		0	
1/4	2,473.31	1/4	2,112.40	1/4	1,751.50	1/4	1,390.60	1/4	1,029.97	1/4	669.59	1/4	308.70	1/4		1/4		1/4	
1/2	2,465.79	1/2	2,104.89	1/2	1,743.98	1/2	1,383.08	1/2	1,022.47	1/2	662.07	1/2	301.19	1/2		1/2		1/2	
3/4	2,458.27	3/4	2,097.37	3/4	1,736.46	3/4	1,375.56	3/4	1,014.98	3/4	654.56	3/4	293.67	3/4		3/4		3/4	
1	2,450.75	1	2,089.85	1	1,728.95	1	1,368.04	1	1,007.49	1	647.04	1	286.15	1		1		1	
1/4	2,443.23	1/4	2,082.33	1/4	1,721.43	1/4	1,360.52	1/4	999.99	1/4	639.52	1/4	278.63	1/4		1/4		1/4	
1/2	2,435.71	1/2	2,074.81	1/2	1,713.91	1/2	1,353.01	1/2	992.50	1/2	632.00	1/2	271.11	1/2		1/2		1/2	
3/4	2,428.19	3/4	2,067.29	3/4	1,706.39	3/4	1,345.49	3/4	985.00	3/4	624.48	3/4	263.59	3/4		3/4		3/4	
2	2,420.67	2	2,059.77	2	1,698.87	2	1,337.97	2	977.51	2	616.96	2	256.08	2		2		2	
1/4	2,413.16	1/4	2,052.25	1/4	1,691.35	1/4	1,330.45	1/4	970.02	1/4	609.44	1/4	248.56	1/4		1/4		1/4	
1/2	2,405.64	1/2	2,044.73	1/2	1,683.83	1/2	1,322.93	1/2	962.52	1/2	601.93	1/2	241.04	1/2		1/2		1/2	
3/4	2,398.12	3/4	2,037.22	3/4	1,676.31	3/4	1,315.41	3/4	955.03	3/4	594.41	3/4	233.52	3/4		3/4		3/4	
3	2,390.60	3	2,029.70	3	1,668.79	3	1,307.89	3	947.53	3	586.89	3	226.00	3		3		3	
1/4	2,383.08	1/4	2,022.18	1/4	1,661.28	1/4	1,300.37	1/4	940.04	1/4	579.37	1/4	218.48	1/4		1/4		1/4	
1/2	2,375.56	1/2	2,014.66	1/2	1,653.76	1/2	1,292.85	1/2	932.55	1/2	571.85	1/2	210.96	1/2		1/2		1/2	
3/4	2,368.04	3/4	2,007.14	3/4	1,646.24	3/4	1,285.34	3/4	925.05	3/4	564.33	3/4	203.45	3/4		3/4		3/4	
4	2,360.52	4	1,999.62	4	1,638.72	4	1,277.82	4	917.56	4	556.82	4	195.93	4		4		4	
1/4	2,353.01	1/4	1,992.10	1/4	1,631.20	1/4	1,270.30	1/4	910.06	1/4	549.30	1/4	188.41	1/4		1/4		1/4	
1/2	2,345.49	1/2	1,984.58	1/2	1,623.68	1/2	1,262.78	1/2	902.57	1/2	541.78	1/2	180.89	1/2		1/2		1/2	
3/4	2,337.97	3/4	1,977.07	3/4	1,616.16	3/4	1,255.26	3/4	895.07	3/4	534.26	3/4	173.37	3/4		3/4		3/4	
5	2,330.45	5	1,969.55	5	1,608.64	5	1,247.74	5	887.58	5	526.74	5	165.86	5		5		5	
1/4	2,322.93	1/4	1,962.03	1/4	1,601.13	1/4	1,240.22	1/4	880.09	1/4	519.22	1/4	158.33	1/4		1/4		1/4	
1/2	2,315.41	1/2	1,954.51	1/2	1,593.61	1/2	1,232.70	1/2	872.59	1/2	511.70	1/2	150.82	1/2		1/2		1/2	
3/4	2,307.89	3/4	1,946.99	3/4	1,586.09	3/4	1,225.19	3/4	865.07	3/4	504.19	3/4	143.30	3/4		3/4		3/4	
6	2,300.37	6	1,939.47	6	1,578.57	6	1,217.67	6	857.56	6	496.67	6	135.78	6		6		6	
1/4	2,292.86	1/4	1,931.95	1/4	1,571.05	1/4	1,210.15	1/4	850.04	1/4	489.15	1/4	128.26	1/4		1/4		1/4	
1/2	2,285.34	1/2	1,924.43	1/2	1,563.53	1/2	1,202.63	1/2	842.52	1/2	481.63	1/2	120.74	1/2		1/2		1/2	
3/4	2,277.82	3/4	1,916.92	3/4	1,556.01	3/4	1,195.11	3/4	835.00	3/4	474.11	3/4	113.22	3/4		3/4		3/4	
7	2,270.30	7	1,909.40	7	1,548.49	7	1,187.59	7	827.48	7	466.59	7	105.71	7		7		7	
1/4	2,262.78	1/4	1,901.88	1/4	1,540.98	1/4	1,180.07	1/4	819.96	1/4	459.07	1/4	98.19	1/4		1/4		1/4	
1/2	2,255.26	1/2	1,894.36	1/2	1,533.46	1/2	1,172.55	1/2	812.44	1/2	451.56	1/2	90.67	1/2		1/2		1/2	
3/4	2,247.74	3/4	1,886.84	3/4	1,525.94	3/4	1,165.04	3/4	804.93	3/4	444.04	3/4	83.15	3/4		3/4		3/4	
8	2,240.22	8	1,879.32	8	1,518.42	8	1,157.52	8	797.41	8	436.52	8	75.63	8		8		8	
1/4	2,232.70	1/4	1,871.80	1/4	1,510.90	1/4	1,150.00	1/4	789.89	1/4	429.00	1/4	68.11	1/4		1/4		1/4	
1/2	2,225.19	1/2	1,864.28	1/2	1,503.38	1/2	1,142.48	1/2	782.37	1/2	421.48	1/2	60.59	1/2		1/2		1/2	
3/4	2,217.67	3/4	1,856.76	3/4	1,495.86	3/4	1,134.96	3/4	774.85	3/4	413.96	3/4	54.01	3/4		3/4		3/4	
9	2,210.15	9	1,849.25	9	1,488.34	9	1,127.44	9	767.33	9	406.45	9	47.44	9		9		9	
1/4	2,202.63	1/4	1,841.73	1/4	1,480.82	1/4	1,119.92	1/4	759.81	1/4	398.93	1/4	40.86	1/4		1/4		1/4	
1/2	2,195.11	1/2	1,834.21	1/2	1,473.31	1/2	1,112.40	1/2	752.30	1/2	391.41	1/2	34.28	1/2		1/2		1/2	
3/4	2,187.59	3/4	1,826.69	3/4	1,465.79	3/4	1,104.89	3/4	744.78	3/4	383.89	3/4	28.58	3/4		3/4		3/4	
10	2,180.07	10	1,819.17	10	1,458.27	10	1,097.42	10	737.26	10	376.37	10	24.88	10		10		10	
1/4	2,172.55	1/4	1,811.65	1/4	1,450.75	1/4	1,089.92	1/4	729.74	1/4	368.85	1/4	20.18	1/4		1/4		1/4	
1/2	2,165.04	1/2	1,804.13	1/2	1,443.23	1/2	1,082.40	1/2	722.22	1/2	361.33	1/2	15.48	1/2		1/2		1/2	
3/4	2,157.52	3/4	1,796.61	3/4	1,435.71	3/4	1,074.89	3/4	714.70	3/4	353.82	3/4		3/4		3/4		3/4	
11	2,150.00	11	1,789.10	11	1,428.19	11	1,067.44	11	707.19	11	346.30	11		11		11		11	
1/4	2,142.48	1/4	1,781.58	1/4	1,420.67	1/4	1,059.94	1/4	699.67	1/4	338.78	1/4		1/4		1/4		1/4	
1/2	2,134.96	1/2	1,774.06	1/2	1,413.16	1/2	1,052.45	1/2	692.15	1/2	331.26	1/2		1/2		1/2		1/2	
3/4	2,127.44	3/4	1,766.54	3/4	1,405.64	3/4	1,044.95	3/4	684.63	3/4	323.74	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/26/2004 CL - BW  
 CALCULATED: 03/26/2004 CL  
 PRINTED: 03/26/2004 CL  
 CANCELS AND SUPERCEDES  
 ALL PRIOR TO 03/2004

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 2093  
 Pearland, Texas 77584  
 http://www.pmainc.com





# BARGE "KIRBY 28029"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE 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.	
M	N	M	N	M	N	M	N	M	N	M	N	M	N	M	N	M	N	M	N
0	2,455.27	0	2,095.21	0	1,738.11	0	1,378.05	0	1,021.57	0	668.67	0	312.20	0		0		0	
1/4	2,447.78	1/4	2,087.71	1/4	1,730.67	1/4	1,370.54	1/4	1,014.21	1/4	661.34	1/4	304.70	1/4		1/4		1/4	
1/2	2,440.28	1/2	2,080.24	1/2	1,723.20	1/2	1,363.04	1/2	1,006.85	1/2	654.00	1/2	297.19	1/2		1/2		1/2	
3/4	2,432.78	3/4	2,072.80	3/4	1,715.69	3/4	1,355.54	3/4	999.49	3/4	646.67	3/4	289.69	3/4		3/4		3/4	
1	2,425.28	1	2,065.36	1	1,708.19	1	1,348.03	1	992.13	1	639.33	1	282.18	1		1		1	
1 1/4	2,417.78	1 1/4	2,057.92	1 1/4	1,700.69	1 1/4	1,340.53	1 1/4	984.77	1 1/4	632.00	1 1/4	274.68	1 1/4		1 1/4		1 1/4	
1 1/2	2,410.28	1 1/2	2,050.49	1 1/2	1,693.18	1 1/2	1,333.03	1 1/2	977.41	1 1/2	624.66	1 1/2	267.17	1 1/2		1 1/2		1 1/2	
3/4	2,402.78	3/4	2,043.05	3/4	1,685.68	3/4	1,325.52	3/4	970.05	3/4	617.32	3/4	259.67	3/4		3/4		3/4	
2	2,395.28	2	2,035.61	2	1,678.18	2	1,318.02	2	962.69	2	609.99	2	252.17	2		2		2	
2 1/4	2,387.78	2 1/4	2,028.17	2 1/4	1,670.67	2 1/4	1,310.52	2 1/4	955.33	2 1/4	602.65	2 1/4	244.66	2 1/4		2 1/4		2 1/4	
2 1/2	2,380.28	2 1/2	2,020.74	2 1/2	1,663.17	2 1/2	1,303.01	2 1/2	947.97	2 1/2	595.32	2 1/2	237.16	2 1/2		2 1/2		2 1/2	
3/4	2,372.79	3/4	2,013.30	3/4	1,655.67	3/4	1,295.51	3/4	940.61	3/4	587.98	3/4	229.65	3/4		3/4		3/4	
3	2,365.29	3	2,005.86	3	1,648.16	3	1,288.01	3	933.25	3	580.65	3	222.15	3		3		3	
3 1/4	2,357.79	3 1/4	1,998.42	3 1/4	1,640.66	3 1/4	1,280.50	3 1/4	925.89	3 1/4	573.31	3 1/4	214.64	3 1/4		3 1/4		3 1/4	
3 1/2	2,350.29	3 1/2	1,990.99	3 1/2	1,633.16	3 1/2	1,273.00	3 1/2	918.53	3 1/2	565.97	3 1/2	207.13	3 1/2		3 1/2		3 1/2	
4	2,342.79	4	1,983.55	4	1,625.65	4	1,265.50	4	911.17	4	558.62	4	199.62	4		4		4	
4 1/4	2,335.29	4 1/4	1,976.11	4 1/4	1,618.15	4 1/4	1,257.99	4 1/4	903.81	4 1/4	551.27	4 1/4	192.10	4 1/4		4 1/4		4 1/4	
4 1/2	2,327.79	4 1/2	1,968.67	4 1/2	1,610.65	4 1/2	1,250.49	4 1/2	896.45	4 1/2	543.92	4 1/2	184.59	4 1/2		4 1/2		4 1/2	
5	2,320.30	5	1,961.24	5	1,603.14	5	1,242.99	5	889.09	5	536.57	5	177.07	5		5		5	
5 1/4	2,312.80	5 1/4	1,953.80	5 1/4	1,595.64	5 1/4	1,235.48	5 1/4	881.73	5 1/4	529.20	5 1/4	169.55	5 1/4		5 1/4		5 1/4	
5 1/2	2,305.30	5 1/2	1,946.36	5 1/2	1,588.14	5 1/2	1,227.98	5 1/2	874.37	5 1/2	521.84	5 1/2	162.04	5 1/2		5 1/2		5 1/2	
6	2,297.80	6	1,938.92	6	1,580.63	6	1,220.48	6	867.01	6	514.47	6	154.52	6		6		6	
6 1/4	2,290.30	6 1/4	1,931.49	6 1/4	1,573.13	6 1/4	1,213.04	6 1/4	859.65	6 1/4	507.07	6 1/4	147.01	6 1/4		6 1/4		6 1/4	
6 1/2	2,282.79	6 1/2	1,924.05	6 1/2	1,565.63	6 1/2	1,205.67	6 1/2	852.28	6 1/2	499.64	6 1/2	139.49	6 1/2		6 1/2		6 1/2	
7	2,275.29	7	1,916.61	7	1,558.12	7	1,198.31	7	844.91	7	492.20	7	131.97	7		7		7	
7 1/4	2,267.79	7 1/4	1,909.17	7 1/4	1,550.62	7 1/4	1,190.84	7 1/4	837.55	7 1/4	484.77	7 1/4	124.46	7 1/4		7 1/4		7 1/4	
7 1/2	2,260.28	7 1/2	1,901.74	7 1/2	1,543.12	7 1/2	1,183.37	7 1/2	830.18	7 1/2	477.29	7 1/2	116.94	7 1/2		7 1/2		7 1/2	
8	2,252.78	8	1,894.30	8	1,535.61	8	1,176.21	8	822.82	8	469.79	8	109.43	8		8		8	
8 1/4	2,245.28	8 1/4	1,886.86	8 1/4	1,528.11	8 1/4	1,168.84	8 1/4	815.46	8 1/4	462.29	8 1/4	101.91	8 1/4		8 1/4		8 1/4	
8 1/2	2,237.77	8 1/2	1,879.42	8 1/2	1,520.61	8 1/2	1,161.47	8 1/2	808.09	8 1/2	454.78	8 1/2	94.39	8 1/2		8 1/2		8 1/2	
9	2,230.27	9	1,871.98	9	1,513.10	9	1,154.11	9	800.74	9	447.28	9	86.88	9		9		9	
9 1/4	2,222.77	9 1/4	1,864.55	9 1/4	1,505.60	9 1/4	1,146.74	9 1/4	793.39	9 1/4	439.77	9 1/4	79.36	9 1/4		9 1/4		9 1/4	
9 1/2	2,215.26	9 1/2	1,857.11	9 1/2	1,498.10	9 1/2	1,139.37	9 1/2	786.04	9 1/2	432.27	9 1/2	71.85	9 1/2		9 1/2		9 1/2	
10	2,207.76	10	1,849.67	10	1,490.59	10	1,132.00	10	778.70	10	424.76	10	64.33	10		10		10	
10 1/4	2,200.26	10 1/4	1,842.23	10 1/4	1,483.09	10 1/4	1,124.64	10 1/4	771.36	10 1/4	417.26	10 1/4	57.28	10 1/4		10 1/4		10 1/4	
10 1/2	2,192.75	10 1/2	1,834.80	10 1/2	1,475.59	10 1/2	1,117.27	10 1/2	764.02	10 1/2	409.76	10 1/2	50.71	10 1/2		10 1/2		10 1/2	
11	2,185.25	11	1,827.36	11	1,468.08	11	1,109.90	11	756.69	11	402.25	11	44.13	11		11		11	
11 1/4	2,177.75	11 1/4	1,819.92	11 1/4	1,460.58	11 1/4	1,102.54	11 1/4	749.35	11 1/4	394.75	11 1/4	37.56	11 1/4		11 1/4		11 1/4	
11 1/2	2,170.24	11 1/2	1,812.48	11 1/2	1,453.08	11 1/2	1,095.17	11 1/2	742.02	11 1/2	387.24	11 1/2	31.91	11 1/2		11 1/2		11 1/2	
12	2,162.74	12	1,805.05	12	1,445.57	12	1,087.81	12	734.69	12	379.74	12	27.22	12		12		12	
12 1/4	2,155.24	12 1/4	1,797.61	12 1/4	1,438.07	12 1/4	1,080.45	12 1/4	727.35	12 1/4	372.23	12 1/4	22.52	12 1/4		12 1/4		12 1/4	
12 1/2	2,147.73	12 1/2	1,790.17	12 1/2	1,430.57	12 1/2	1,073.09	12 1/2	720.02	12 1/2	364.73	12 1/2	17.82	12 1/2		12 1/2		12 1/2	
13	2,140.23	13	1,782.73	13	1,423.06	13	1,065.73	13	712.68	13	357.23	13	15.47	13		13		13	
13 1/4	2,132.73	13 1/4	1,775.30	13 1/4	1,415.56	13 1/4	1,058.37	13 1/4	705.35	13 1/4	349.72	13 1/4		13 1/4		13 1/4		13 1/4	
13 1/2	2,125.22	13 1/2	1,767.86	13 1/2	1,408.06	13 1/2	1,051.01	13 1/2	698.01	13 1/2	342.22	13 1/2		13 1/2		13 1/2		13 1/2	
14	2,117.72	14	1,760.42	14	1,400.56	14	1,043.65	14	690.68	14	334.71	14		14		14		14	
14 1/4	2,110.22	14 1/4	1,752.98	14 1/4	1,393.05	14 1/4	1,036.29	14 1/4	683.34	14 1/4	327.21	14 1/4		14 1/4		14 1/4		14 1/4	
14 1/2	2,102.71	14 1/2	1,745.55	14 1/2	1,385.55	14 1/2	1,028.93	14 1/2	676.01	14 1/2	319.70	14 1/2		14 1/2		14 1/2		14 1/2	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 032507004 CL - 6W  
CALCULATED: 032507004 CL  
PRINTED: 032507004 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 0327004

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Peeke, Texas 77668  
Http://www.pmacorp.net