



BARGE "KIRBY 28023"

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	- 00-1/4	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	- 00-3/4	00-3/4	- 00-7/8	00-7/8

(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: 237'-00"

July 2, 2002

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

<http://www.pmacorp.net>



BARGE "KIRBY 28023"

1 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		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	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	1/4
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	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	3/4
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1/4	1/4	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	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	3/4
2	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	1/4
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	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	3/4
3	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	1/4
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	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	3/4
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	1/4
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	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	3/4
5	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	1/4
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	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	3/4
6	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	1/4
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	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	3/4
7	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	1/4
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	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	3/4
8	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	1/4
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	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	3/4
9	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	1/4
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	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	3/4
10	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	1/4
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	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	3/4
11	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	1/4
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	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	3/4

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 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.

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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	2,133.33	0	1,801.46	0	1,469.58	0	1,137.70	0	811.56	0	507.33	0	226.57	0		0		0	
1/4	2,126.42	1/4	1,794.54	1/4	1,462.67	1/4	1,130.79	1/4	804.99	1/4	501.24	1/4	220.97	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,119.51	1/2	1,787.63	1/2	1,455.75	1/2	1,123.87	1/2	798.42	1/2	495.14	1/2	215.36	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,112.59	3/4	1,780.71	3/4	1,448.84	3/4	1,116.96	3/4	791.89	3/4	489.09	3/4	209.80	3/4	3/4	3/4	3/4	3/4	3/4
1	2,105.68	1	1,773.80	1	1,441.92	1	1,110.05	1	785.36	1	483.03	1	204.24	1		1		1	
1/4	2,098.76	1/4	1,766.89	1/4	1,435.01	1/4	1,103.13	1/4	778.83	1/4	476.98	1/4	198.68	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,091.85	1/2	1,759.97	1/2	1,428.10	1/2	1,096.22	1/2	772.30	1/2	470.93	1/2	193.12	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,084.93	3/4	1,753.06	3/4	1,421.18	3/4	1,089.31	3/4	765.81	3/4	464.91	3/4	187.60	3/4	3/4	3/4	3/4	3/4	3/4
2	2,078.02	2	1,746.14	2	1,414.27	2	1,082.39	2	759.32	2	458.90	2	182.08	2		2		2	
1/4	2,071.11	1/4	1,739.23	1/4	1,407.35	1/4	1,075.48	1/4	752.83	1/4	452.88	1/4	176.55	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,064.19	1/2	1,732.32	1/2	1,400.44	1/2	1,068.57	1/2	746.34	1/2	446.87	1/2	171.03	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,057.28	3/4	1,725.40	3/4	1,393.52	3/4	1,061.66	3/4	739.87	3/4	440.90	3/4	165.55	3/4	3/4	3/4	3/4	3/4	3/4
3	2,050.36	3	1,718.49	3	1,386.61	3	1,054.76	3	733.41	3	434.93	3	160.07	3		3		3	
1/4	2,043.45	1/4	1,711.57	1/4	1,379.70	1/4	1,047.85	1/4	726.94	1/4	428.96	1/4	154.59	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,036.54	1/2	1,704.66	1/2	1,372.78	1/2	1,040.95	1/2	720.48	1/2	422.99	1/2	149.12	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,029.62	3/4	1,697.75	3/4	1,365.87	3/4	1,034.06	3/4	714.06	3/4	417.05	3/4	143.67	3/4	3/4	3/4	3/4	3/4	3/4
4	2,022.71	4	1,690.83	4	1,358.95	4	1,027.17	4	707.63	4	411.12	4	138.23	4		4		4	
1/4	2,015.79	1/4	1,683.92	1/4	1,352.04	1/4	1,020.28	1/4	701.21	1/4	405.19	1/4	132.79	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,008.88	1/2	1,677.00	1/2	1,345.13	1/2	1,013.39	1/2	694.78	1/2	399.26	1/2	127.35	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,001.97	3/4	1,670.09	3/4	1,338.21	3/4	1,006.52	3/4	688.40	3/4	393.37	3/4	121.95	3/4	3/4	3/4	3/4	3/4	3/4
5	1,995.05	5	1,663.17	5	1,331.30	5	999.66	5	682.02	5	387.48	5	116.56	5		5		5	
1/4	1,988.14	1/4	1,656.26	1/4	1,324.38	1/4	992.79	1/4	675.64	1/4	381.59	1/4	111.16	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,981.22	1/2	1,649.35	1/2	1,317.47	1/2	985.93	1/2	669.26	1/2	375.70	1/2	105.77	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,974.31	3/4	1,642.43	3/4	1,310.56	3/4	979.10	3/4	662.91	3/4	369.85	3/4	100.41	3/4	3/4	3/4	3/4	3/4	3/4
6	1,967.39	6	1,635.52	6	1,303.64	6	972.26	6	656.57	6	364.00	6	95.05	6		6		6	
1/4	1,960.48	1/4	1,628.60	1/4	1,296.73	1/4	965.43	1/4	650.23	1/4	358.15	1/4	89.70	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,953.57	1/2	1,621.69	1/2	1,289.81	1/2	958.60	1/2	643.89	1/2	352.30	1/2	84.34	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,946.65	3/4	1,614.78	3/4	1,282.90	3/4	951.82	3/4	637.59	3/4	346.49	3/4	79.03	3/4	3/4	3/4	3/4	3/4	3/4
7	1,939.74	7	1,607.86	7	1,275.98	7	945.05	7	631.29	7	340.69	7	73.72	7		7		7	
1/4	1,932.82	1/4	1,600.95	1/4	1,269.07	1/4	938.27	1/4	624.99	1/4	334.88	1/4	68.41	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,925.91	1/2	1,594.03	1/2	1,262.16	1/2	931.49	1/2	618.69	1/2	329.07	1/2	63.10	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,919.00	3/4	1,587.12	3/4	1,255.24	3/4	924.76	3/4	612.43	3/4	323.30	3/4	57.82	3/4	3/4	3/4	3/4	3/4	3/4
8	1,912.08	8	1,580.21	8	1,248.33	8	918.02	8	606.17	8	317.54	8	52.55	8		8		8	
1/4	1,905.17	1/4	1,573.29	1/4	1,241.41	1/4	911.28	1/4	599.91	1/4	311.77	1/4	47.27	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,898.25	1/2	1,566.38	1/2	1,234.50	1/2	904.55	1/2	593.65	1/2	306.00	1/2	42.00	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,891.34	3/4	1,559.46	3/4	1,227.59	3/4	897.85	3/4	587.43	3/4	300.27	3/4	37.64	3/4	3/4	3/4	3/4	3/4	3/4
9	1,884.43	9	1,552.55	9	1,220.67	9	891.16	9	581.21	9	294.55	9	33.27	9		9		9	
1/4	1,877.51	1/4	1,545.63	1/4	1,213.76	1/4	884.47	1/4	575.00	1/4	288.82	1/4	28.91	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,870.60	1/2	1,538.72	1/2	1,206.84	1/2	877.77	1/2	568.78	1/2	283.10	1/2	24.54	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,863.68	3/4	1,531.81	3/4	1,199.93	3/4	871.12	3/4	562.60	3/4	277.41	3/4	21.94	3/4	3/4	3/4	3/4	3/4	3/4
10	1,856.77	10	1,524.89	10	1,193.02	10	864.46	10	556.42	10	271.73	10	19.35	10		10		10	
1/4	1,849.86	1/4	1,517.98	1/4	1,186.10	1/4	857.81	1/4	550.24	1/4	266.04	1/4	16.75	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,842.94	1/2	1,511.06	1/2	1,179.19	1/2	851.16	1/2	544.07	1/2	260.35	1/2	14.15	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,836.03	3/4	1,504.15	3/4	1,172.27	3/4	844.54	3/4	537.93	3/4	254.71	3/4		3/4	3/4	3/4	3/4	3/4	3/4
11	1,829.11	11	1,497.24	11	1,165.36	11	837.93	11	531.80	11	249.07	11		11		11		11	
1/4	1,822.20	1/4	1,490.32	1/4	1,158.45	1/4	831.32	1/4	525.66	1/4	243.43	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,815.28	1/2	1,483.41	1/2	1,151.53	1/2	824.71	1/2	519.53	1/2	237.78	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,808.37	3/4	1,476.49	3/4	1,144.62	3/4	818.13	3/4	513.43	3/4	232.18	3/4		3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/01/2002 CL - SW
CALCULATED: 07/02/2002 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2002

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



BARGE "KIRBY 28023"

1 STBD 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	4,358.86	0	4,059.19	0	3,762.77	0	3,451.67	0	3,127.03	0	2,795.24	0	2,463.43
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,353.68	1/4	4,053.17	1/4	3,756.43	1/4	3,445.05	1/4	3,120.12	1/4	2,788.33	1/4	2,456.52
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,348.49	1/2	4,047.14	1/2	3,750.08	1/2	3,438.43	1/2	3,113.22	1/2	2,781.41	1/2	2,449.60
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,341.57	3/4	4,041.09	3/4	3,743.72	3/4	3,431.78	3/4	3,106.31	3/4	2,774.50	3/4	2,442.69
1		1		1		1	4,334.66	1	4,035.04	1	3,737.36	1	3,425.14	1	3,099.40	1	2,767.59	1	2,435.77
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,327.75	1/4	4,028.99	1/4	3,730.99	1/4	3,418.50	1/4	3,092.48	1/4	2,760.67	1/4	2,428.86
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,320.83	1/2	4,022.93	1/2	3,724.63	1/2	3,411.85	1/2	3,085.57	1/2	2,753.76	1/2	2,421.95
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,313.92	3/4	4,016.86	3/4	3,718.24	3/4	3,405.18	3/4	3,078.66	3/4	2,746.85	3/4	2,415.03
2		2		2		2	4,307.00	2	4,010.79	2	3,711.86	2	3,398.51	2	3,071.75	2	2,739.94	2	2,408.12
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,300.09	1/4	4,004.72	1/4	3,705.47	1/4	3,391.84	1/4	3,064.83	1/4	2,733.02	1/4	2,401.20
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,293.18	1/2	3,998.65	1/2	3,699.09	1/2	3,385.17	1/2	3,057.92	1/2	2,726.11	1/2	2,394.29
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,286.26	3/4	3,992.55	3/4	3,692.67	3/4	3,378.47	3/4	3,051.01	3/4	2,719.20	3/4	2,387.38
3		3		3		3	4,279.35	3	3,986.46	3	3,686.26	3	3,371.78	3	3,044.09	3	2,712.29	3	2,380.46
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,272.43	1/4	3,980.37	1/4	3,679.85	1/4	3,365.09	1/4	3,037.18	1/4	2,705.37	1/4	2,373.55
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,265.52	1/2	3,974.27	1/2	3,673.43	1/2	3,358.40	1/2	3,030.27	1/2	2,698.46	1/2	2,366.63
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,258.61	3/4	3,968.15	3/4	3,667.00	3/4	3,351.68	3/4	3,023.36	3/4	2,691.55	3/4	2,359.72
4		4		4		4	4,251.69	4	3,962.03	4	3,660.56	4	3,344.97	4	3,016.44	4	2,684.63	4	2,352.81
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,244.78	1/4	3,955.91	1/4	3,654.13	1/4	3,338.26	1/4	3,009.53	1/4	2,677.72	1/4	2,345.89
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,237.86	1/2	3,949.79	1/2	3,647.70	1/2	3,331.54	1/2	3,002.62	1/2	2,670.81	1/2	2,338.98
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,231.97	3/4	3,943.65	3/4	3,641.24	3/4	3,324.80	3/4	2,995.71	3/4	2,663.90	3/4	2,332.06
5		5		5		5	4,226.07	5	3,937.51	5	3,634.79	5	3,318.06	5	2,988.79	5	2,656.98	5	2,325.15
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,220.17	1/4	3,931.37	1/4	3,628.33	1/4	3,311.32	1/4	2,981.88	1/4	2,650.07	1/4	2,318.23
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,214.27	1/2	3,925.23	1/2	3,621.88	1/2	3,304.58	1/2	2,974.97	1/2	2,643.16	1/2	2,311.32
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,208.35	3/4	3,919.06	3/4	3,615.39	3/4	3,297.82	3/4	2,968.06	3/4	2,636.25	3/4	2,304.41
6		6		6		6	4,202.43	6	3,912.90	6	3,608.91	6	3,291.06	6	2,961.14	6	2,629.33	6	2,297.49
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,196.52	1/4	3,906.74	1/4	3,602.43	1/4	3,284.29	1/4	2,954.23	1/4	2,622.42	1/4	2,290.58
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,190.60	1/2	3,900.57	1/2	3,595.95	1/2	3,277.53	1/2	2,947.32	1/2	2,615.51	1/2	2,283.66
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,184.66	3/4	3,894.38	3/4	3,589.44	3/4	3,270.74	3/4	2,940.40	3/4	2,608.59	3/4	2,276.75
7		7		7		7	4,178.72	7	3,888.19	7	3,582.94	7	3,263.95	7	2,933.49	7	2,601.68	7	2,269.84
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,172.78	1/4	3,882.00	1/4	3,576.43	1/4	3,257.16	1/4	2,926.58	1/4	2,594.77	1/4	2,262.92
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,166.84	1/2	3,875.81	1/2	3,569.93	1/2	3,250.36	1/2	2,919.67	1/2	2,587.86	1/2	2,256.01
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,160.87	3/4	3,869.60	3/4	3,563.41	3/4	3,243.55	3/4	2,912.75	3/4	2,580.94	3/4	2,249.09
8		8		8		8	4,154.90	8	3,863.39	8	3,556.88	8	3,236.74	8	2,905.84	8	2,574.03	8	2,242.18
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,148.94	1/4	3,857.18	1/4	3,550.35	1/4	3,229.93	1/4	2,898.93	1/4	2,567.12	1/4	2,235.27
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,142.97	1/2	3,850.97	1/2	3,543.83	1/2	3,223.12	1/2	2,892.02	1/2	2,560.21	1/2	2,228.35
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,137.02	3/4	3,844.70	3/4	3,537.28	3/4	3,216.29	3/4	2,885.10	3/4	2,553.29	3/4	2,221.44
9		9		9		9	4,131.06	9	3,838.43	9	3,530.73	9	3,209.46	9	2,878.19	9	2,546.38	9	2,214.52
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,125.11	1/4	3,832.17	1/4	3,524.17	1/4	3,202.63	1/4	2,871.28	1/4	2,539.47	1/4	2,207.61
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,119.15	1/2	3,825.90	1/2	3,517.62	1/2	3,195.79	1/2	2,864.36	1/2	2,532.56	1/2	2,200.70
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,113.18	3/4	3,819.60	3/4	3,511.05	3/4	3,188.93	3/4	2,857.45	3/4	2,525.64	3/4	2,193.78
10		10		10		10	4,107.20	10	3,813.31	10	3,504.47	10	3,182.07	10	2,850.54	10	2,518.73	10	2,186.87
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,101.22	1/4	3,807.02	1/4	3,497.90	1/4	3,175.21	1/4	2,843.63	1/4	2,511.82	1/4	2,179.95
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,095.25	1/2	3,800.72	1/2	3,491.33	1/2	3,168.35	1/2	2,836.71	1/2	2,504.90	1/2	2,173.04
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,089.25	3/4	3,794.41	3/4	3,484.72	3/4	3,161.47	3/4	2,829.80	3/4	2,497.99	3/4	2,166.12
11		11		11		11	4,083.24	11	3,788.09	11	3,478.12	11	3,154.59	11	2,822.89	11	2,491.08	11	2,159.21
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,077.24	1/4	3,781.78	1/4	3,471.52	1/4	3,147.71	1/4	2,815.98	1/4	2,484.17	1/4	2,152.30
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,071.24	1/2	3,775.46	1/2	3,464.91	1/2	3,140.83	1/2	2,809.06	1/2	2,477.25	1/2	2,145.38
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,065.21	3/4	3,769.12	3/4	3,458.29	3/4	3,133.93	3/4	2,802.15	3/4	2,470.34	3/4	2,138.47

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 36'-09" FORWARD OF AFT BULKHEAD.

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



BARGE "KIRBY 28023"

1 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	2,131.55	0	1,799.68	0	1,467.80	0	1,135.92	0	810.90	0	507.32	0	226.57	0		0		0	
1/4	2,124.64	1/4	1,792.76	1/4	1,460.89	1/4	1,129.01	1/4	804.37	1/4	501.23	1/4	220.96	1/4	1/4	1/4		1/4	
1/2	2,117.73	1/2	1,785.85	1/2	1,453.97	1/2	1,122.10	1/2	797.83	1/2	495.13	1/2	215.36	1/2	1/2	1/2		1/2	
3/4	2,110.81	3/4	1,778.94	3/4	1,447.06	3/4	1,115.18	3/4	791.34	3/4	489.08	3/4	209.80	3/4	3/4	3/4		3/4	
1	2,103.90	1	1,772.02	1	1,440.14	1	1,108.27	1	784.85	1	483.02	1	204.24	1		1		1	
1/4	2,096.98	1/4	1,765.11	1/4	1,433.23	1/4	1,101.35	1/4	778.36	1/4	476.97	1/4	198.68	1/4	1/4	1/4		1/4	
1/2	2,090.07	1/2	1,758.19	1/2	1,426.32	1/2	1,094.44	1/2	771.87	1/2	470.92	1/2	193.12	1/2	1/2	1/2		1/2	
3/4	2,083.16	3/4	1,751.28	3/4	1,419.40	3/4	1,087.53	3/4	765.41	3/4	464.90	3/4	187.59	3/4	3/4	3/4		3/4	
2	2,076.24	2	1,744.36	2	1,412.49	2	1,080.61	2	758.96	2	458.89	2	182.07	2		2		2	
1/4	2,069.33	1/4	1,737.45	1/4	1,405.57	1/4	1,073.70	1/4	752.51	1/4	452.88	1/4	176.55	1/4	1/4	1/4		1/4	
1/2	2,062.41	1/2	1,730.54	1/2	1,398.66	1/2	1,066.79	1/2	746.06	1/2	446.86	1/2	171.02	1/2	1/2	1/2		1/2	
3/4	2,055.50	3/4	1,723.62	3/4	1,391.75	3/4	1,059.88	3/4	739.63	3/4	440.89	3/4	165.55	3/4	3/4	3/4		3/4	
3	2,048.58	3	1,716.71	3	1,384.83	3	1,052.98	3	733.20	3	434.92	3	160.07	3		3		3	
1/4	2,041.67	1/4	1,709.79	1/4	1,377.92	1/4	1,046.07	1/4	726.78	1/4	428.95	1/4	154.59	1/4	1/4	1/4		1/4	
1/2	2,034.76	1/2	1,702.88	1/2	1,371.00	1/2	1,039.17	1/2	720.35	1/2	422.98	1/2	149.11	1/2	1/2	1/2		1/2	
3/4	2,027.84	3/4	1,695.97	3/4	1,364.09	3/4	1,032.28	3/4	713.95	3/4	417.05	3/4	143.67	3/4	3/4	3/4		3/4	
4	2,020.93	4	1,689.05	4	1,357.17	4	1,025.39	4	707.56	4	411.11	4	138.23	4		4		4	
1/4	2,014.01	1/4	1,682.14	1/4	1,350.26	1/4	1,018.50	1/4	701.17	1/4	405.18	1/4	132.79	1/4	1/4	1/4		1/4	
1/2	2,007.10	1/2	1,675.22	1/2	1,343.35	1/2	1,011.61	1/2	694.77	1/2	399.25	1/2	127.34	1/2	1/2	1/2		1/2	
3/4	2,000.19	3/4	1,668.31	3/4	1,336.43	3/4	1,004.78	3/4	688.39	3/4	393.36	3/4	121.95	3/4	3/4	3/4		3/4	
5	1,993.27	5	1,661.40	5	1,329.52	5	997.94	5	682.01	5	387.47	5	116.55	5		5		5	
1/4	1,986.36	1/4	1,654.48	1/4	1,322.60	1/4	991.10	1/4	675.63	1/4	381.58	1/4	111.16	1/4	1/4	1/4		1/4	
1/2	1,979.44	1/2	1,647.57	1/2	1,315.69	1/2	984.27	1/2	669.24	1/2	375.69	1/2	105.77	1/2	1/2	1/2		1/2	
3/4	1,972.53	3/4	1,640.65	3/4	1,308.78	3/4	977.47	3/4	662.90	3/4	369.84	3/4	100.41	3/4	3/4	3/4		3/4	
6	1,965.62	6	1,633.74	6	1,301.86	6	970.68	6	656.56	6	363.99	6	95.05	6		6		6	
1/4	1,958.70	1/4	1,626.82	1/4	1,294.95	1/4	963.88	1/4	650.22	1/4	358.14	1/4	89.70	1/4	1/4	1/4		1/4	
1/2	1,951.79	1/2	1,619.91	1/2	1,288.03	1/2	957.08	1/2	643.88	1/2	352.29	1/2	84.34	1/2	1/2	1/2		1/2	
3/4	1,944.87	3/4	1,613.00	3/4	1,281.12	3/4	950.35	3/4	637.58	3/4	346.49	3/4	79.03	3/4	3/4	3/4		3/4	
7	1,937.96	7	1,606.08	7	1,274.21	7	943.61	7	631.28	7	340.68	7	73.72	7		7		7	
1/4	1,931.05	1/4	1,599.17	1/4	1,267.29	1/4	936.87	1/4	624.98	1/4	334.87	1/4	68.40	1/4	1/4	1/4		1/4	
1/2	1,924.13	1/2	1,592.25	1/2	1,260.38	1/2	930.13	1/2	618.68	1/2	329.07	1/2	63.09	1/2	1/2	1/2		1/2	
3/4	1,917.22	3/4	1,585.34	3/4	1,253.46	3/4	923.44	3/4	612.42	3/4	323.30	3/4	57.82	3/4	3/4	3/4		3/4	
8	1,910.30	8	1,578.43	8	1,246.55	8	916.74	8	606.16	8	317.53	8	52.55	8		8		8	
1/4	1,903.39	1/4	1,571.51	1/4	1,239.64	1/4	910.04	1/4	599.90	1/4	311.76	1/4	47.27	1/4	1/4	1/4		1/4	
1/2	1,896.47	1/2	1,564.60	1/2	1,232.72	1/2	903.34	1/2	593.64	1/2	305.99	1/2	42.00	1/2	1/2	1/2		1/2	
3/4	1,889.56	3/4	1,557.68	3/4	1,225.81	3/4	896.69	3/4	587.42	3/4	300.27	3/4	37.63	3/4	3/4	3/4		3/4	
9	1,882.65	9	1,550.77	9	1,218.89	9	890.03	9	581.20	9	294.54	9	33.27	9		9		9	
1/4	1,875.73	1/4	1,543.86	1/4	1,211.98	1/4	883.38	1/4	574.99	1/4	288.82	1/4	28.91	1/4	1/4	1/4		1/4	
1/2	1,868.82	1/2	1,536.94	1/2	1,205.06	1/2	876.72	1/2	568.77	1/2	283.09	1/2	24.54	1/2	1/2	1/2		1/2	
3/4	1,861.90	3/4	1,530.03	3/4	1,198.15	3/4	870.11	3/4	562.59	3/4	277.41	3/4	21.94	3/4	3/4	3/4		3/4	
10	1,854.99	10	1,523.11	10	1,191.24	10	863.49	10	556.41	10	271.72	10	19.35	10		10		10	
1/4	1,848.08	1/4	1,516.20	1/4	1,184.32	1/4	856.88	1/4	550.23	1/4	266.03	1/4	16.75	1/4	1/4	1/4		1/4	
1/2	1,841.16	1/2	1,509.29	1/2	1,177.41	1/2	850.26	1/2	544.06	1/2	260.35	1/2	14.15	1/2	1/2	1/2		1/2	
3/4	1,834.25	3/4	1,502.37	3/4	1,170.49	3/4	843.69	3/4	537.92	3/4	254.70	3/4		3/4	3/4	3/4		3/4	
11	1,827.33	11	1,495.46	11	1,163.58	11	837.11	11	531.79	11	249.06	11		11		11		11	
1/4	1,820.42	1/4	1,488.54	1/4	1,156.67	1/4	830.54	1/4	525.65	1/4	243.42	1/4		1/4	1/4	1/4		1/4	
1/2	1,813.51	1/2	1,481.63	1/2	1,149.75	1/2	823.97	1/2	519.52	1/2	237.78	1/2		1/2	1/2	1/2		1/2	
3/4	1,806.59	3/4	1,474.71	3/4	1,142.84	3/4	817.43	3/4	513.42	3/4	232.17	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/01/2002 CL - SW
CALCULATED: 07/02/2002 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2002

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "KIRBY 28023"

2 PORT ULLAGE TABLE

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

GAUGE HEIGHT 16'-10 1/2"

Table with columns for height (0 to 9 FT.) and inches (IN) and rows for gauge depth (0, 1/4, 1/2, 3/4) for each height.

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 28023"

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	2,666.17	0	2,278.14	0	1,890.11	0	1,502.09	0	1,114.06	0	726.52	0	339.09	0		0		0	
1/4	2,658.08	1/4	2,270.06	1/4	1,882.03	1/4	1,494.00	1/4	1,105.97	1/4	718.46	1/4	331.02	1/4		1/4		1/4	
1/2	2,650.00	1/2	2,261.97	1/2	1,873.94	1/2	1,485.92	1/2	1,097.89	1/2	710.40	1/2	322.94	1/2		1/2		1/2	
3/4	2,641.92	3/4	2,253.89	3/4	1,865.86	3/4	1,477.83	3/4	1,089.81	3/4	702.34	3/4	314.87	3/4		3/4		3/4	
1	2,633.83	1	2,245.80	1	1,857.78	1	1,469.75	1	1,081.72	1	694.28	1	306.79	1		1		1	
1/4	2,625.75	1/4	2,237.72	1/4	1,849.69	1/4	1,461.67	1/4	1,073.64	1/4	686.22	1/4	298.72	1/4		1/4		1/4	
1/2	2,617.66	1/2	2,229.64	1/2	1,841.61	1/2	1,453.58	1/2	1,065.55	1/2	678.16	1/2	290.64	1/2		1/2		1/2	
3/4	2,609.58	3/4	2,221.55	3/4	1,833.53	3/4	1,445.50	3/4	1,057.47	3/4	670.10	3/4	282.57	3/4		3/4		3/4	
2	2,601.50	2	2,213.47	2	1,825.44	2	1,437.41	2	1,049.39	2	662.04	2	274.49	2		2		2	
1/4	2,593.41	1/4	2,205.38	1/4	1,817.36	1/4	1,429.33	1/4	1,041.30	1/4	653.98	1/4	266.42	1/4		1/4		1/4	
1/2	2,585.33	1/2	2,197.30	1/2	1,809.27	1/2	1,421.25	1/2	1,033.22	1/2	645.92	1/2	258.34	1/2		1/2		1/2	
3/4	2,577.24	3/4	2,189.22	3/4	1,801.19	3/4	1,413.16	3/4	1,025.14	3/4	637.86	3/4	250.27	3/4		3/4		3/4	
3	2,569.16	3	2,181.13	3	1,793.11	3	1,405.08	3	1,017.05	3	629.79	3	242.19	3		3		3	
1/4	2,561.08	1/4	2,173.05	1/4	1,785.02	1/4	1,396.99	1/4	1,008.97	1/4	621.72	1/4	234.12	1/4		1/4		1/4	
1/2	2,552.99	1/2	2,164.97	1/2	1,776.94	1/2	1,388.91	1/2	1,000.88	1/2	613.65	1/2	226.04	1/2		1/2		1/2	
3/4	2,544.91	3/4	2,156.88	3/4	1,768.85	3/4	1,380.83	3/4	992.80	3/4	605.57	3/4	217.96	3/4		3/4		3/4	
4	2,536.82	4	2,148.80	4	1,760.77	4	1,372.74	4	984.72	4	597.50	4	209.89	4		4		4	
1/4	2,528.74	1/4	2,140.71	1/4	1,752.69	1/4	1,364.66	1/4	976.63	1/4	589.42	1/4	201.81	1/4		1/4		1/4	
1/2	2,520.66	1/2	2,132.63	1/2	1,744.60	1/2	1,356.58	1/2	968.55	1/2	581.35	1/2	193.74	1/2		1/2		1/2	
3/4	2,512.57	3/4	2,124.55	3/4	1,736.52	3/4	1,348.49	3/4	960.46	3/4	573.27	3/4	185.66	3/4		3/4		3/4	
5	2,504.49	5	2,116.46	5	1,728.43	5	1,340.41	5	952.38	5	565.20	5	177.59	5		5		5	
1/4	2,496.41	1/4	2,108.38	1/4	1,720.35	1/4	1,332.32	1/4	944.30	1/4	557.12	1/4	169.51	1/4		1/4		1/4	
1/2	2,488.32	1/2	2,100.29	1/2	1,712.27	1/2	1,324.24	1/2	936.21	1/2	549.05	1/2	161.44	1/2		1/2		1/2	
3/4	2,480.24	3/4	2,092.21	3/4	1,704.18	3/4	1,316.16	3/4	928.13	3/4	540.97	3/4	153.36	3/4		3/4		3/4	
6	2,472.15	6	2,084.13	6	1,696.10	6	1,308.07	6	920.04	6	532.90	6	145.29	6		6		6	
1/4	2,464.07	1/4	2,076.04	1/4	1,688.02	1/4	1,299.99	1/4	911.96	1/4	524.82	1/4	137.21	1/4		1/4		1/4	
1/2	2,455.99	1/2	2,067.96	1/2	1,679.93	1/2	1,291.90	1/2	903.88	1/2	516.75	1/2	129.14	1/2		1/2		1/2	
3/4	2,447.90	3/4	2,059.87	3/4	1,671.85	3/4	1,283.82	3/4	895.81	3/4	508.67	3/4	121.06	3/4		3/4		3/4	
7	2,439.82	7	2,051.79	7	1,663.76	7	1,275.74	7	887.73	7	500.60	7	112.99	7		7		7	
1/4	2,431.73	1/4	2,043.71	1/4	1,655.68	1/4	1,267.65	1/4	879.66	1/4	492.52	1/4	104.91	1/4		1/4		1/4	
1/2	2,423.65	1/2	2,035.62	1/2	1,647.60	1/2	1,259.57	1/2	871.59	1/2	484.45	1/2	96.84	1/2		1/2		1/2	
3/4	2,415.57	3/4	2,027.54	3/4	1,639.51	3/4	1,251.48	3/4	863.53	3/4	476.37	3/4	88.76	3/4		3/4		3/4	
8	2,407.48	8	2,019.46	8	1,631.43	8	1,243.40	8	855.47	8	468.30	8	80.69	8		8		8	
1/4	2,399.40	1/4	2,011.37	1/4	1,623.34	1/4	1,235.32	1/4	847.41	1/4	460.22	1/4	72.61	1/4		1/4		1/4	
1/2	2,391.31	1/2	2,003.29	1/2	1,615.26	1/2	1,227.23	1/2	839.35	1/2	452.15	1/2	64.54	1/2		1/2		1/2	
3/4	2,383.23	3/4	1,995.20	3/4	1,607.18	3/4	1,219.15	3/4	831.29	3/4	444.07	3/4	57.47	3/4		3/4		3/4	
9	2,375.15	9	1,987.12	9	1,599.09	9	1,211.07	9	823.23	9	436.00	9	50.40	9		9		9	
1/4	2,367.06	1/4	1,979.04	1/4	1,591.01	1/4	1,202.98	1/4	815.17	1/4	427.92	1/4	43.34	1/4		1/4		1/4	
1/2	2,358.98	1/2	1,970.95	1/2	1,582.92	1/2	1,194.90	1/2	807.11	1/2	419.84	1/2	36.27	1/2		1/2		1/2	
3/4	2,350.90	3/4	1,962.87	3/4	1,574.84	3/4	1,186.81	3/4	799.05	3/4	411.77	3/4	31.23	3/4		3/4		3/4	
10	2,342.81	10	1,954.78	10	1,566.76	10	1,178.73	10	791.00	10	403.69	10	26.19	10		10		10	
1/4	2,334.73	1/4	1,946.70	1/4	1,558.67	1/4	1,170.65	1/4	782.94	1/4	395.62	1/4	21.14	1/4		1/4		1/4	
1/2	2,326.64	1/2	1,938.62	1/2	1,550.59	1/2	1,162.56	1/2	774.88	1/2	387.54	1/2	16.10	1/2		1/2		1/2	
3/4	2,318.56	3/4	1,930.53	3/4	1,542.51	3/4	1,154.48	3/4	766.82	3/4	379.47	3/4		3/4		3/4		3/4	
11	2,310.48	11	1,922.45	11	1,534.42	11	1,146.39	11	758.76	11	371.39	11		11		11		11	
1/4	2,302.39	1/4	1,914.36	1/4	1,526.34	1/4	1,138.31	1/4	750.70	1/4	363.32	1/4		1/4		1/4		1/4	
1/2	2,294.31	1/2	1,906.28	1/2	1,518.25	1/2	1,130.23	1/2	742.64	1/2	355.24	1/2		1/2		1/2		1/2	
3/4	2,286.22	3/4	1,898.20	3/4	1,510.17	3/4	1,122.14	3/4	734.58	3/4	347.17	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/01/2002 CL - SW
CALCULATED: 07/02/2002 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2002

PRECISION MEASUREMENT
& ANALYSIS, INC.
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Pearland, Texas 77588
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BARGE "KIRBY 28023"

2 STBD 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	0	0	0	5,256.34	0	4,906.29	0	4,560.70	0	4,196.90	0	3,817.25	0	3,429.24	0	3,041.20
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,250.28	1/4	4,899.27	1/4	4,553.29	1/4	4,189.15	1/4	3,809.18	1/4	3,421.15	1/4	3,033.12
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,244.21	1/2	4,892.26	1/2	4,545.87	1/2	4,181.41	1/2	3,801.11	1/2	3,413.07	1/2	3,025.03
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,236.13	3/4	4,885.21	3/4	4,538.42	3/4	4,173.64	3/4	3,793.02	3/4	3,404.98	3/4	3,016.95
1	1	1	1	1	1	1	5,228.04	1	4,878.16	1	4,530.98	1	4,165.87	1	3,784.94	1	3,396.90	1	3,008.86
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,219.95	1/4	4,871.12	1/4	4,523.54	1/4	4,158.10	1/4	3,776.85	1/4	3,388.82	1/4	3,000.77
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,211.87	1/2	4,864.07	1/2	4,516.10	1/2	4,150.33	1/2	3,768.77	1/2	3,380.73	1/2	2,992.69
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,203.78	3/4	4,857.00	3/4	4,508.63	3/4	4,142.53	3/4	3,760.68	3/4	3,372.65	3/4	2,984.60
2	2	2	2	2	2	2	5,195.69	2	4,849.93	2	4,501.16	2	4,134.73	2	3,752.60	2	3,364.56	2	2,976.51
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,187.61	1/4	4,842.86	1/4	4,493.70	1/4	4,126.92	1/4	3,744.52	1/4	3,356.48	1/4	2,968.43
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,179.52	1/2	4,835.80	1/2	4,486.23	1/2	4,119.12	1/2	3,736.43	1/2	3,348.40	1/2	2,960.34
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,171.44	3/4	4,828.70	3/4	4,478.73	3/4	4,111.30	3/4	3,728.35	3/4	3,340.31	3/4	2,952.25
3	3	3	3	3	3	3	5,163.35	3	4,821.61	3	4,471.23	3	4,103.47	3	3,720.26	3	3,332.23	3	2,944.17
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,155.26	1/4	4,814.51	1/4	4,463.73	1/4	4,095.65	1/4	3,712.18	1/4	3,324.14	1/4	2,936.08
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,147.18	1/2	4,807.42	1/2	4,456.23	1/2	4,087.82	1/2	3,704.10	1/2	3,316.06	1/2	2,928.00
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,139.09	3/4	4,800.29	3/4	4,448.70	3/4	4,079.97	3/4	3,696.01	3/4	3,307.98	3/4	2,919.91
4	4	4	4	4	4	4	5,131.00	4	4,793.16	4	4,441.18	4	4,072.12	4	3,687.93	4	3,299.89	4	2,911.82
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,122.92	1/4	4,786.04	1/4	4,433.66	1/4	4,064.27	1/4	3,679.84	1/4	3,291.81	1/4	2,903.74
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,114.83	1/2	4,778.91	1/2	4,426.13	1/2	4,056.42	1/2	3,671.76	1/2	3,283.72	1/2	2,895.65
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,107.93	3/4	4,771.76	3/4	4,418.58	3/4	4,048.53	3/4	3,663.68	3/4	3,275.64	3/4	2,887.56
5	5	5	5	5	5	5	5,101.03	5	4,764.61	5	4,411.03	5	4,040.65	5	3,655.59	5	3,267.55	5	2,879.48
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,094.14	1/4	4,757.46	1/4	4,403.49	1/4	4,032.77	1/4	3,647.51	1/4	3,259.47	1/4	2,871.39
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,087.24	1/2	4,750.31	1/2	4,395.94	1/2	4,024.89	1/2	3,639.42	1/2	3,251.39	1/2	2,863.31
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,080.31	3/4	4,743.13	3/4	4,388.36	3/4	4,016.98	3/4	3,631.34	3/4	3,243.30	3/4	2,855.22
6	6	6	6	6	6	6	5,073.39	6	4,735.96	6	4,380.78	6	4,009.07	6	3,623.25	6	3,235.22	6	2,847.13
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,066.47	1/4	4,728.78	1/4	4,373.19	1/4	4,001.16	1/4	3,615.17	1/4	3,227.13	1/4	2,839.05
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,059.55	1/2	4,721.60	1/2	4,365.61	1/2	3,993.26	1/2	3,607.09	1/2	3,219.05	1/2	2,830.96
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,052.60	3/4	4,714.40	3/4	4,358.01	3/4	3,985.31	3/4	3,599.00	3/4	3,210.97	3/4	2,822.87
7	7	7	7	7	7	7	5,045.65	7	4,707.19	7	4,350.40	7	3,977.37	7	3,590.92	7	3,202.88	7	2,814.79
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,038.70	1/4	4,699.98	1/4	4,342.80	1/4	3,969.43	1/4	3,582.83	1/4	3,194.80	1/4	2,806.70
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,031.76	1/2	4,692.77	1/2	4,335.19	1/2	3,961.48	1/2	3,574.75	1/2	3,186.71	1/2	2,798.62
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,024.78	3/4	4,685.54	3/4	4,327.56	3/4	3,953.52	3/4	3,566.67	3/4	3,178.63	3/4	2,790.53
8	8	8	8	8	8	8	5,017.80	8	4,678.31	8	4,319.93	8	3,945.56	8	3,558.58	8	3,170.55	8	2,782.44
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,010.82	1/4	4,671.07	1/4	4,312.30	1/4	3,937.59	1/4	3,550.50	1/4	3,162.46	1/4	2,774.36
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,003.84	1/2	4,663.84	1/2	4,304.67	1/2	3,929.63	1/2	3,542.41	1/2	3,154.38	1/2	2,766.27
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,996.91	3/4	4,656.51	3/4	4,297.01	3/4	3,921.64	3/4	3,534.33	3/4	3,146.29	3/4	2,758.18
9	9	9	9	9	9	9	4,989.97	9	4,649.18	9	4,289.34	9	3,913.65	9	3,526.25	9	3,138.21	9	2,750.10
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,983.04	1/4	4,641.85	1/4	4,281.68	1/4	3,905.66	1/4	3,518.16	1/4	3,130.12	1/4	2,742.01
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,976.11	1/2	4,634.53	1/2	4,274.02	1/2	3,897.67	1/2	3,510.08	1/2	3,122.04	1/2	2,733.92
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,969.15	3/4	4,627.17	3/4	4,266.33	3/4	3,889.65	3/4	3,501.99	3/4	3,113.96	3/4	2,725.84
10	10	10	10	10	10	10	4,962.19	10	4,619.81	10	4,258.64	10	3,881.62	10	3,493.91	10	3,105.87	10	2,717.75
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,955.23	1/4	4,612.45	1/4	4,250.96	1/4	3,873.60	1/4	3,485.83	1/4	3,097.79	1/4	2,709.67
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,948.27	1/2	4,605.09	1/2	4,243.27	1/2	3,865.58	1/2	3,477.74	1/2	3,089.70	1/2	2,701.58
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,941.28	3/4	4,597.70	3/4	4,235.55	3/4	3,857.53	3/4	3,469.66	3/4	3,081.62	3/4	2,693.49
11	11	11	11	11	11	11	4,934.30	11	4,590.31	11	4,227.83	11	3,849.48	11	3,461.57	11	3,073.54	11	2,685.41
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,927.31	1/4	4,582.93	1/4	4,220.11	1/4	3,841.44	1/4	3,453.49	1/4	3,065.45	1/4	2,677.32
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,920.32	1/2	4,575.54	1/2	4,212.38	1/2	3,833.39	1/2	3,445.40	1/2	3,057.37	1/2	2,669.23
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,913.30	3/4	4,568.12	3/4	4,204.64	3/4	3,825.32	3/4	3,437.32	3/4	3,049.28	3/4	2,661.15

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 28023"

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	2,653.06	0	2,264.92	0	1,876.78	0	1,488.63	0	1,100.49	0	721.50	0	339.91	0		0		0	
1/4	2,644.98	1/4	2,256.83	1/4	1,868.69	1/4	1,480.55	1/4	1,092.41	1/4	713.75	1/4	331.82	1/4	1/4		1/4		1/4
1/2	2,636.89	1/2	2,248.75	1/2	1,860.60	1/2	1,472.46	1/2	1,084.32	1/2	706.00	1/2	323.73	1/2	1/2		1/2		1/2
3/4	2,628.80	3/4	2,240.66	3/4	1,852.52	3/4	1,464.38	3/4	1,076.23	3/4	698.25	3/4	315.65	3/4	3/4		3/4		3/4
1	2,620.72	1	2,232.57	1	1,844.43	1	1,456.29	1	1,068.15	1	690.50	1	307.56	1		1		1	
1/4	2,612.63	1/4	2,224.49	1/4	1,836.35	1/4	1,448.20	1/4	1,060.06	1/4	682.75	1/4	299.48	1/4	1/4		1/4		1/4
1/2	2,604.54	1/2	2,216.40	1/2	1,828.26	1/2	1,440.12	1/2	1,051.97	1/2	675.00	1/2	291.39	1/2	1/2		1/2		1/2
3/4	2,596.46	3/4	2,208.32	3/4	1,820.17	3/4	1,432.03	3/4	1,043.89	3/4	667.25	3/4	283.31	3/4	3/4		3/4		3/4
2	2,588.37	2	2,200.23	2	1,812.09	2	1,423.94	2	1,035.80	2	659.50	2	275.22	2		2		2	
1/4	2,580.29	1/4	2,192.14	1/4	1,804.00	1/4	1,415.86	1/4	1,027.72	1/4	651.75	1/4	267.14	1/4	1/4		1/4		1/4
1/2	2,572.20	1/2	2,184.06	1/2	1,795.91	1/2	1,407.77	1/2	1,019.63	1/2	643.99	1/2	259.05	1/2	1/2		1/2		1/2
3/4	2,564.11	3/4	2,175.97	3/4	1,787.83	3/4	1,399.69	3/4	1,011.54	3/4	636.23	3/4	250.97	3/4	3/4		3/4		3/4
3	2,556.03	3	2,167.88	3	1,779.74	3	1,391.60	3	1,003.46	3	628.47	3	242.88	3		3		3	
1/4	2,547.94	1/4	2,159.80	1/4	1,771.66	1/4	1,383.51	1/4	995.37	1/4	620.71	1/4	234.79	1/4	1/4		1/4		1/4
1/2	2,539.85	1/2	2,151.71	1/2	1,763.57	1/2	1,375.43	1/2	987.28	1/2	612.95	1/2	226.71	1/2	1/2		1/2		1/2
3/4	2,531.77	3/4	2,143.62	3/4	1,755.48	3/4	1,367.34	3/4	979.20	3/4	605.18	3/4	218.62	3/4	3/4		3/4		3/4
4	2,523.68	4	2,135.54	4	1,747.40	4	1,359.25	4	971.11	4	597.40	4	210.54	4		4		4	
1/4	2,515.59	1/4	2,127.45	1/4	1,739.31	1/4	1,351.17	1/4	963.03	1/4	589.63	1/4	202.45	1/4	1/4		1/4		1/4
1/2	2,507.51	1/2	2,119.37	1/2	1,731.22	1/2	1,343.08	1/2	954.94	1/2	581.85	1/2	194.37	1/2	1/2		1/2		1/2
3/4	2,499.42	3/4	2,111.28	3/4	1,723.14	3/4	1,334.99	3/4	947.00	3/4	573.92	3/4	186.28	3/4	3/4		3/4		3/4
5	2,491.34	5	2,103.19	5	1,715.05	5	1,326.91	5	939.07	5	565.99	5	178.20	5		5		5	
1/4	2,483.25	1/4	2,095.11	1/4	1,706.96	1/4	1,318.82	1/4	931.14	1/4	558.06	1/4	170.11	1/4	1/4		1/4		1/4
1/2	2,475.16	1/2	2,087.02	1/2	1,698.88	1/2	1,310.74	1/2	923.20	1/2	550.13	1/2	162.03	1/2	1/2		1/2		1/2
3/4	2,467.08	3/4	2,078.93	3/4	1,690.79	3/4	1,302.65	3/4	915.43	3/4	542.04	3/4	153.94	3/4	3/4		3/4		3/4
6	2,458.99	6	2,070.85	6	1,682.71	6	1,294.56	6	907.65	6	533.95	6	145.86	6		6		6	
1/4	2,450.90	1/4	2,062.76	1/4	1,674.62	1/4	1,286.48	1/4	899.87	1/4	525.87	1/4	137.77	1/4	1/4		1/4		1/4
1/2	2,442.82	1/2	2,054.68	1/2	1,666.53	1/2	1,278.39	1/2	892.10	1/2	517.78	1/2	129.68	1/2	1/2		1/2		1/2
3/4	2,434.73	3/4	2,046.59	3/4	1,658.45	3/4	1,270.30	3/4	884.33	3/4	509.70	3/4	121.60	3/4	3/4		3/4		3/4
7	2,426.65	7	2,038.50	7	1,650.36	7	1,262.22	7	876.57	7	501.61	7	113.51	7		7		7	
1/4	2,418.56	1/4	2,030.42	1/4	1,642.27	1/4	1,254.13	1/4	868.81	1/4	493.53	1/4	105.43	1/4	1/4		1/4		1/4
1/2	2,410.47	1/2	2,022.33	1/2	1,634.19	1/2	1,246.05	1/2	861.04	1/2	485.44	1/2	97.34	1/2	1/2		1/2		1/2
3/4	2,402.39	3/4	2,014.24	3/4	1,626.10	3/4	1,237.96	3/4	853.29	3/4	477.36	3/4	89.26	3/4	3/4		3/4		3/4
8	2,394.30	8	2,006.16	8	1,618.02	8	1,229.87	8	845.54	8	469.27	8	81.17	8		8		8	
1/4	2,386.21	1/4	1,998.07	1/4	1,609.93	1/4	1,221.79	1/4	837.79	1/4	461.19	1/4	73.09	1/4	1/4		1/4		1/4
1/2	2,378.13	1/2	1,989.99	1/2	1,601.84	1/2	1,213.70	1/2	830.03	1/2	453.10	1/2	65.00	1/2	1/2		1/2		1/2
3/4	2,370.04	3/4	1,981.90	3/4	1,593.76	3/4	1,205.61	3/4	822.28	3/4	445.02	3/4	57.93	3/4	3/4		3/4		3/4
9	2,361.95	9	1,973.81	9	1,585.67	9	1,197.53	9	814.53	9	436.93	9	50.85	9		9		9	
1/4	2,353.87	1/4	1,965.73	1/4	1,577.58	1/4	1,189.44	1/4	806.78	1/4	428.84	1/4	43.77	1/4	1/4		1/4		1/4
1/2	2,345.78	1/2	1,957.64	1/2	1,569.50	1/2	1,181.36	1/2	799.02	1/2	420.76	1/2	36.70	1/2	1/2		1/2		1/2
3/4	2,337.70	3/4	1,949.55	3/4	1,561.41	3/4	1,173.27	3/4	791.27	3/4	412.67	3/4	31.64	3/4	3/4		3/4		3/4
10	2,329.61	10	1,941.47	10	1,553.32	10	1,165.18	10	783.52	10	404.59	10	26.59	10		10		10	
1/4	2,321.52	1/4	1,933.38	1/4	1,545.24	1/4	1,157.10	1/4	775.77	1/4	396.50	1/4	21.54	1/4	1/4		1/4		1/4
1/2	2,313.44	1/2	1,925.29	1/2	1,537.15	1/2	1,149.01	1/2	768.02	1/2	388.42	1/2	16.48	1/2	1/2		1/2		1/2
3/4	2,305.35	3/4	1,917.21	3/4	1,529.07	3/4	1,140.92	3/4	760.26	3/4	380.33	3/4		3/4	3/4		3/4		3/4
11	2,297.26	11	1,909.12	11	1,520.98	11	1,132.84	11	752.51	11	372.25	11		11		11		11	
1/4	2,289.18	1/4	1,901.04	1/4	1,512.89	1/4	1,124.75	1/4	744.76	1/4	364.16	1/4		1/4	1/4		1/4		1/4
1/2	2,281.09	1/2	1,892.95	1/2	1,504.81	1/2	1,116.66	1/2	737.01	1/2	356.08	1/2		1/2	1/2		1/2		1/2
3/4	2,273.01	3/4	1,884.86	3/4	1,496.72	3/4	1,108.58	3/4	729.25	3/4	347.99	3/4		3/4	3/4		3/4		3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/01/2002 CL - SW
CALCULATED: 07/02/2002 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2002

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



BARGE "KIRBY 28023"

3 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	4,623.57	0	4,357.92	0	4,095.32	0	3,819.46	0	3,531.59	0	3,203.99	0	2,843.00
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,618.97	1/4	4,352.59	1/4	4,089.69	1/4	3,813.59	1/4	3,525.47	1/4	3,196.47	1/4	2,835.48
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,614.36	1/2	4,347.25	1/2	4,084.07	1/2	3,807.72	1/2	3,519.35	1/2	3,188.95	1/2	2,827.96
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,608.23	3/4	4,341.89	3/4	4,078.42	3/4	3,801.82	3/4	3,513.22	3/4	3,181.43	3/4	2,820.44
1		1		1		1	4,602.10	1	4,336.53	1	4,072.78	1	3,795.93	1	3,507.09	1	3,173.91	1	2,812.91
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,595.97	1/4	4,331.17	1/4	4,067.14	1/4	3,790.04	1/4	3,500.96	1/4	3,166.39	1/4	2,805.39
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,589.84	1/2	4,325.81	1/2	4,061.50	1/2	3,784.15	1/2	3,494.83	1/2	3,158.87	1/2	2,797.87
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,583.71	3/4	4,320.44	3/4	4,055.83	3/4	3,778.24	3/4	3,488.70	3/4	3,151.35	3/4	2,790.35
2		2		2		2	4,577.58	2	4,315.06	2	4,050.17	2	3,772.32	2	3,482.57	2	3,143.83	2	2,782.83
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,571.45	1/4	4,309.68	1/4	4,044.51	1/4	3,766.40	1/4	3,476.44	1/4	3,136.31	1/4	2,775.30
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,565.32	1/2	4,304.31	1/2	4,038.85	1/2	3,760.49	1/2	3,470.31	1/2	3,128.79	1/2	2,767.78
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,559.18	3/4	4,298.91	3/4	4,033.16	3/4	3,754.55	3/4	3,464.18	3/4	3,121.27	3/4	2,760.26
3		3		3		3	4,553.05	3	4,293.52	3	4,027.47	3	3,748.62	3	3,458.05	3	3,113.74	3	2,752.74
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,546.92	1/4	4,288.12	1/4	4,021.79	1/4	3,742.69	1/4	3,451.92	1/4	3,106.22	1/4	2,745.21
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,540.79	1/2	4,282.72	1/2	4,016.10	1/2	3,736.75	1/2	3,445.79	1/2	3,098.70	1/2	2,737.69
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,534.66	3/4	4,277.30	3/4	4,010.39	3/4	3,730.80	3/4	3,439.52	3/4	3,091.18	3/4	2,730.17
4		4		4		4	4,528.53	4	4,271.88	4	4,004.69	4	3,724.84	4	3,433.25	4	3,083.66	4	2,722.65
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,522.40	1/4	4,266.46	1/4	3,998.98	1/4	3,718.89	1/4	3,426.98	1/4	3,076.14	1/4	2,715.13
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,516.27	1/2	4,261.04	1/2	3,993.28	1/2	3,712.94	1/2	3,420.71	1/2	3,068.62	1/2	2,707.60
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,511.04	3/4	4,255.60	3/4	3,987.56	3/4	3,706.96	3/4	3,414.17	3/4	3,061.10	3/4	2,700.08
5		5		5		5	4,505.81	5	4,250.16	5	3,981.83	5	3,700.98	5	3,407.62	5	3,053.58	5	2,692.56
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,500.58	1/4	4,244.73	1/4	3,976.11	1/4	3,695.01	1/4	3,401.07	1/4	3,046.06	1/4	2,685.04
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,495.35	1/2	4,239.29	1/2	3,970.38	1/2	3,689.03	1/2	3,394.52	1/2	3,038.54	1/2	2,677.51
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,490.10	3/4	4,233.83	3/4	3,964.64	3/4	3,683.03	3/4	3,387.70	3/4	3,031.02	3/4	2,669.99
6		6		6		6	4,484.85	6	4,228.37	6	3,958.89	6	3,677.04	6	3,380.87	6	3,023.50	6	2,662.47
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,479.60	1/4	4,222.91	1/4	3,953.14	1/4	3,671.04	1/4	3,374.05	1/4	3,015.98	1/4	2,654.95
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,474.35	1/2	4,217.45	1/2	3,947.39	1/2	3,665.05	1/2	3,367.22	1/2	3,008.46	1/2	2,647.43
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,469.09	3/4	4,211.97	3/4	3,941.62	3/4	3,659.02	3/4	3,360.12	3/4	3,000.93	3/4	2,639.90
7		7		7		7	4,463.82	7	4,206.49	7	3,935.86	7	3,653.00	7	3,353.02	7	2,993.41	7	2,632.38
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,458.55	1/4	4,201.01	1/4	3,930.09	1/4	3,646.98	1/4	3,345.91	1/4	2,985.89	1/4	2,624.86
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,453.28	1/2	4,195.53	1/2	3,924.32	1/2	3,640.95	1/2	3,338.81	1/2	2,978.37	1/2	2,617.34
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,447.99	3/4	4,190.03	3/4	3,918.54	3/4	3,634.91	3/4	3,331.43	3/4	2,970.85	3/4	2,609.81
8		8		8		8	4,442.70	8	4,184.52	8	3,912.75	8	3,628.88	8	3,324.05	8	2,963.33	8	2,602.29
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,437.41	1/4	4,179.02	1/4	3,906.96	1/4	3,622.84	1/4	3,316.66	1/4	2,955.81	1/4	2,594.77
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,432.12	1/2	4,173.52	1/2	3,901.18	1/2	3,616.80	1/2	3,309.28	1/2	2,948.29	1/2	2,587.25
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,426.85	3/4	4,167.97	3/4	3,895.37	3/4	3,610.74	3/4	3,301.76	3/4	2,940.77	3/4	2,579.73
9		9		9		9	4,421.57	9	4,162.41	9	3,889.56	9	3,604.68	9	3,294.24	9	2,933.25	9	2,572.20
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,416.30	1/4	4,156.85	1/4	3,883.75	1/4	3,598.62	1/4	3,286.72	1/4	2,925.73	1/4	2,564.68
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,411.03	1/2	4,151.29	1/2	3,877.94	1/2	3,592.57	1/2	3,279.20	1/2	2,918.21	1/2	2,557.16
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,405.73	3/4	4,145.71	3/4	3,872.11	3/4	3,586.48	3/4	3,271.68	3/4	2,910.69	3/4	2,549.64
10		10		10		10	4,400.44	10	4,140.13	10	3,866.28	10	3,580.40	10	3,264.16	10	2,903.17	10	2,542.11
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,395.15	1/4	4,134.55	1/4	3,860.45	1/4	3,574.31	1/4	3,256.64	1/4	2,895.64	1/4	2,534.59
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,389.86	1/2	4,128.97	1/2	3,854.62	1/2	3,568.23	1/2	3,249.12	1/2	2,888.12	1/2	2,527.07
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,384.54	3/4	4,123.37	3/4	3,848.77	3/4	3,562.13	3/4	3,241.60	3/4	2,880.60	3/4	2,519.55
11		11		11		11	4,379.23	11	4,117.77	11	3,842.91	11	3,556.03	11	3,234.08	11	2,873.08	11	2,512.03
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,373.91	1/4	4,112.17	1/4	3,837.06	1/4	3,549.93	1/4	3,226.56	1/4	2,865.56	1/4	2,504.50
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,368.59	1/2	4,106.57	1/2	3,831.20	1/2	3,543.83	1/2	3,219.03	1/2	2,858.04	1/2	2,496.98
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,363.26	3/4	4,100.95	3/4	3,825.33	3/4	3,537.71	3/4	3,211.51	3/4	2,850.52	3/4	2,489.46

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'-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 28023"

3 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	2,481.94	0	2,120.87	0	1,759.81	0	1,398.74	0	1,037.92	0	677.42	0	316.37	0		0		0	
1/4	2,474.41	1/4	2,113.35	1/4	1,752.28	1/4	1,391.22	1/4	1,030.43	1/4	669.90	1/4	308.84	1/4	1/4		1/4	1/4	1/4
1/2	2,466.89	1/2	2,105.83	1/2	1,744.76	1/2	1,383.70	1/2	1,022.93	1/2	662.37	1/2	301.32	1/2	1/2		1/2	1/2	1/2
3/4	2,459.37	3/4	2,098.30	3/4	1,737.24	3/4	1,376.17	3/4	1,015.43	3/4	654.85	3/4	293.80	3/4	3/4		3/4	3/4	3/4
1	2,451.85	1	2,090.78	1	1,729.72	1	1,368.65	1	1,007.94	1	647.33	1	286.28	1			1		1
1/4	2,444.33	1/4	2,083.26	1/4	1,722.19	1/4	1,361.13	1/4	1,000.44	1/4	639.81	1/4	278.76	1/4	1/4		1/4	1/4	1/4
1/2	2,436.80	1/2	2,075.74	1/2	1,714.67	1/2	1,353.61	1/2	992.94	1/2	632.29	1/2	271.23	1/2	1/2		1/2	1/2	1/2
3/4	2,429.28	3/4	2,068.22	3/4	1,707.15	3/4	1,346.08	3/4	985.44	3/4	624.76	3/4	263.71	3/4	3/4		3/4	3/4	3/4
2	2,421.76	2	2,060.69	2	1,699.63	2	1,338.56	2	977.95	2	617.24	2	256.19	2			2		2
1/4	2,414.24	1/4	2,053.17	1/4	1,692.11	1/4	1,331.04	1/4	970.45	1/4	609.72	1/4	248.67	1/4	1/4		1/4	1/4	1/4
1/2	2,406.72	1/2	2,045.65	1/2	1,684.58	1/2	1,323.52	1/2	962.95	1/2	602.20	1/2	241.15	1/2	1/2		1/2	1/2	1/2
3/4	2,399.19	3/4	2,038.13	3/4	1,677.06	3/4	1,316.00	3/4	955.46	3/4	594.68	3/4	233.62	3/4	3/4		3/4	3/4	3/4
3	2,391.67	3	2,030.61	3	1,669.54	3	1,308.47	3	947.96	3	587.15	3	226.10	3			3		3
1/4	2,384.15	1/4	2,023.08	1/4	1,662.02	1/4	1,300.95	1/4	940.46	1/4	579.63	1/4	218.58	1/4	1/4		1/4	1/4	1/4
1/2	2,376.63	1/2	2,015.56	1/2	1,654.50	1/2	1,293.43	1/2	932.96	1/2	572.11	1/2	211.06	1/2	1/2		1/2	1/2	1/2
3/4	2,369.10	3/4	2,008.04	3/4	1,646.97	3/4	1,285.91	3/4	925.47	3/4	564.59	3/4	203.54	3/4	3/4		3/4	3/4	3/4
4	2,361.58	4	2,000.52	4	1,639.45	4	1,278.39	4	917.97	4	557.07	4	196.02	4			4		4
1/4	2,354.06	1/4	1,992.99	1/4	1,631.93	1/4	1,270.86	1/4	910.47	1/4	549.54	1/4	188.49	1/4	1/4		1/4	1/4	1/4
1/2	2,346.54	1/2	1,985.47	1/2	1,624.41	1/2	1,263.34	1/2	902.98	1/2	542.02	1/2	180.97	1/2	1/2		1/2	1/2	1/2
3/4	2,339.02	3/4	1,977.95	3/4	1,616.88	3/4	1,255.82	3/4	895.48	3/4	534.50	3/4	173.45	3/4	3/4		3/4	3/4	3/4
5	2,331.49	5	1,970.43	5	1,609.36	5	1,248.30	5	887.98	5	526.98	5	165.93	5			5		5
1/4	2,323.97	1/4	1,962.91	1/4	1,601.84	1/4	1,240.77	1/4	880.48	1/4	519.46	1/4	158.41	1/4	1/4		1/4	1/4	1/4
1/2	2,316.45	1/2	1,955.38	1/2	1,594.32	1/2	1,233.25	1/2	872.99	1/2	511.94	1/2	150.88	1/2	1/2		1/2	1/2	1/2
3/4	2,308.93	3/4	1,947.86	3/4	1,586.80	3/4	1,225.73	3/4	865.46	3/4	504.41	3/4	143.36	3/4	3/4		3/4	3/4	3/4
6	2,301.40	6	1,940.34	6	1,579.27	6	1,218.21	6	857.94	6	496.89	6	135.84	6			6		6
1/4	2,293.88	1/4	1,932.82	1/4	1,571.75	1/4	1,210.69	1/4	850.42	1/4	489.37	1/4	128.32	1/4	1/4		1/4	1/4	1/4
1/2	2,286.36	1/2	1,925.29	1/2	1,564.23	1/2	1,203.16	1/2	842.90	1/2	481.85	1/2	120.80	1/2	1/2		1/2	1/2	1/2
3/4	2,278.84	3/4	1,917.77	3/4	1,556.71	3/4	1,195.64	3/4	835.38	3/4	474.33	3/4	113.27	3/4	3/4		3/4	3/4	3/4
7	2,271.32	7	1,910.25	7	1,549.18	7	1,188.12	7	827.85	7	466.80	7	105.75	7			7		7
1/4	2,263.79	1/4	1,902.73	1/4	1,541.66	1/4	1,180.60	1/4	820.33	1/4	459.28	1/4	98.23	1/4	1/4		1/4	1/4	1/4
1/2	2,256.27	1/2	1,895.21	1/2	1,534.14	1/2	1,173.07	1/2	812.81	1/2	451.76	1/2	90.71	1/2	1/2		1/2	1/2	1/2
3/4	2,248.75	3/4	1,887.68	3/4	1,526.62	3/4	1,165.55	3/4	805.29	3/4	444.24	3/4	83.19	3/4	3/4		3/4	3/4	3/4
8	2,241.23	8	1,880.16	8	1,519.10	8	1,158.03	8	797.77	8	436.72	8	75.66	8			8		8
1/4	2,233.70	1/4	1,872.64	1/4	1,511.57	1/4	1,150.51	1/4	790.25	1/4	429.19	1/4	68.14	1/4	1/4		1/4	1/4	1/4
1/2	2,226.18	1/2	1,865.12	1/2	1,504.05	1/2	1,142.99	1/2	782.72	1/2	421.67	1/2	60.62	1/2	1/2		1/2	1/2	1/2
3/4	2,218.66	3/4	1,857.59	3/4	1,496.53	3/4	1,135.46	3/4	775.20	3/4	414.15	3/4	54.04	3/4	3/4		3/4	3/4	3/4
9	2,211.14	9	1,850.07	9	1,489.01	9	1,127.94	9	767.68	9	406.63	9	47.46	9			9		9
1/4	2,203.62	1/4	1,842.55	1/4	1,481.48	1/4	1,120.42	1/4	760.16	1/4	399.11	1/4	40.87	1/4	1/4		1/4	1/4	1/4
1/2	2,196.09	1/2	1,835.03	1/2	1,473.96	1/2	1,112.90	1/2	752.64	1/2	391.58	1/2	34.29	1/2	1/2		1/2	1/2	1/2
3/4	2,188.57	3/4	1,827.51	3/4	1,466.44	3/4	1,105.40	3/4	745.11	3/4	384.06	3/4	29.59	3/4	3/4		3/4	3/4	3/4
10	2,181.05	10	1,819.98	10	1,458.92	10	1,097.90	10	737.59	10	376.54	10	24.89	10			10		10
1/4	2,173.53	1/4	1,812.46	1/4	1,451.40	1/4	1,090.41	1/4	730.07	1/4	369.02	1/4	20.19	1/4	1/4		1/4	1/4	1/4
1/2	2,166.00	1/2	1,804.94	1/2	1,443.87	1/2	1,082.91	1/2	722.55	1/2	361.50	1/2	15.49	1/2	1/2		1/2	1/2	1/2
3/4	2,158.48	3/4	1,797.42	3/4	1,436.35	3/4	1,075.41	3/4	715.03	3/4	353.98	3/4		3/4	3/4		3/4	3/4	3/4
11	2,150.96	11	1,789.89	11	1,428.83	11	1,067.91	11	707.50	11	346.45	11		11			11		11
1/4	2,143.44	1/4	1,782.37	1/4	1,421.31	1/4	1,060.42	1/4	699.98	1/4	338.93	1/4		1/4	1/4		1/4	1/4	1/4
1/2	2,135.92	1/2	1,774.85	1/2	1,413.78	1/2	1,052.92	1/2	692.46	1/2	331.41	1/2		1/2	1/2		1/2	1/2	1/2
3/4	2,128.39	3/4	1,767.33	3/4	1,406.26	3/4	1,045.42	3/4	684.94	3/4	323.89	3/4		3/4	3/4		3/4	3/4	3/4

STRAPPED: 07/01/2002 CL - SW
CALCULATED: 07/02/2002 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2002

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 28023"

3 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.	
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0
						4,600.91	4,335.27	4,072.67	3,796.81	3,508.93	3,181.54	2,821.22							
1/4	1/4	1/4	1/4	1/4	1/4	4,596.31	4,329.94	4,067.04	3,790.94	3,502.81	3,174.04	2,813.71							
1/2	1/2	1/2	1/2	1/2	1/2	4,591.71	4,324.60	4,062.12	3,785.06	3,496.69	3,166.53	2,806.20							
3/4	3/4	3/4	3/4	3/4	3/4	4,585.58	4,319.24	4,055.77	3,779.17	3,490.56	3,159.02	2,798.69							
1	1	1	1	1	1	4,579.45	4,313.88	4,050.13	3,773.28	3,484.43	3,151.51	2,791.19							
1/4	1/4	1/4	1/4	1/4	1/4	4,573.32	4,308.52	4,044.49	3,767.39	3,478.30	3,144.01	2,783.68							
1/2	1/2	1/2	1/2	1/2	1/2	4,567.19	4,303.16	4,038.84	3,761.50	3,472.17	3,136.50	2,776.17							
3/4	3/4	3/4	3/4	3/4	3/4	4,561.06	4,297.79	4,033.18	3,755.58	3,466.04	3,128.99	2,768.66							
2	2	2	2	2	2	4,554.93	4,292.41	4,027.52	3,749.67	3,459.92	3,121.49	2,761.15							
1/4	1/4	1/4	1/4	1/4	1/4	4,548.79	4,287.03	4,021.86	3,743.75	3,453.79	3,113.98	2,753.65							
1/2	1/2	1/2	1/2	1/2	1/2	4,542.66	4,281.66	4,016.20	3,737.83	3,447.66	3,106.47	2,746.14							
3/4	3/4	3/4	3/4	3/4	3/4	4,536.53	4,276.26	4,010.51	3,731.90	3,441.53	3,098.97	2,738.63							
3	3	3	3	3	3	4,530.40	4,270.86	4,004.82	3,725.97	3,435.40	3,091.46	2,731.12							
1/4	1/4	1/4	1/4	1/4	1/4	4,524.27	4,265.47	3,999.13	3,720.03	3,429.27	3,083.95	2,723.61							
1/2	1/2	1/2	1/2	1/2	1/2	4,518.14	4,260.07	3,993.45	3,714.10	3,423.14	3,076.45	2,716.11							
3/4	3/4	3/4	3/4	3/4	3/4	4,512.01	4,254.65	3,987.74	3,708.15	3,416.87	3,068.94	2,708.60							
4	4	4	4	4	4	4,505.88	4,249.23	3,982.04	3,702.19	3,410.60	3,061.43	2,701.09							
1/4	1/4	1/4	1/4	1/4	1/4	4,499.75	4,243.81	3,976.33	3,696.24	3,404.33	3,053.93	2,693.58							
1/2	1/2	1/2	1/2	1/2	1/2	4,493.62	4,238.39	3,970.63	3,690.29	3,398.06	3,046.42	2,686.07							
3/4	3/4	3/4	3/4	3/4	3/4	4,488.38	4,232.95	3,964.90	3,684.31	3,391.51	3,038.91	2,678.57							
5	5	5	5	5	5	4,483.15	4,227.51	3,959.18	3,678.33	3,384.97	3,031.41	2,671.06							
1/4	1/4	1/4	1/4	1/4	1/4	4,477.92	4,222.07	3,953.46	3,672.35	3,378.42	3,023.90	2,663.55							
1/2	1/2	1/2	1/2	1/2	1/2	4,472.69	4,216.63	3,947.73	3,666.38	3,371.87	3,016.39	2,656.04							
3/4	3/4	3/4	3/4	3/4	3/4	4,467.45	4,211.18	3,941.98	3,660.38	3,365.05	3,008.89	2,648.53							
6	6	6	6	6	6	4,462.20	4,205.72	3,936.23	3,654.39	3,358.22	3,001.38	2,641.03							
1/4	1/4	1/4	1/4	1/4	1/4	4,456.95	4,200.26	3,930.49	3,648.39	3,351.40	2,993.87	2,633.52							
1/2	1/2	1/2	1/2	1/2	1/2	4,451.70	4,194.80	3,924.74	3,642.39	3,344.57	2,986.37	2,626.01							
3/4	3/4	3/4	3/4	3/4	3/4	4,446.43	4,189.32	3,918.97	3,636.37	3,337.47	2,978.86	2,618.50							
7	7	7	7	7	7	4,441.17	4,183.84	3,913.20	3,630.35	3,330.36	2,971.35	2,610.99							
1/4	1/4	1/4	1/4	1/4	1/4	4,435.90	4,178.36	3,907.44	3,624.32	3,323.26	2,963.84	2,603.49							
1/2	1/2	1/2	1/2	1/2	1/2	4,430.63	4,172.87	3,901.67	3,618.30	3,316.16	2,956.34	2,595.98							
3/4	3/4	3/4	3/4	3/4	3/4	4,425.34	4,167.37	3,895.88	3,612.26	3,308.78	2,948.83	2,588.47							
8	8	8	8	8	8	4,420.05	4,161.87	3,890.10	3,606.22	3,301.40	2,941.32	2,580.96							
1/4	1/4	1/4	1/4	1/4	1/4	4,414.76	4,156.37	3,884.31	3,600.19	3,294.02	2,933.82	2,573.45							
1/2	1/2	1/2	1/2	1/2	1/2	4,409.47	4,150.87	3,878.53	3,594.15	3,286.64	2,926.31	2,565.95							
3/4	3/4	3/4	3/4	3/4	3/4	4,404.19	4,145.31	3,872.72	3,588.09	3,279.13	2,918.80	2,558.44							
9	9	9	9	9	9	4,398.92	4,139.76	3,866.91	3,582.03	3,271.62	2,911.30	2,550.93							
1/4	1/4	1/4	1/4	1/4	1/4	4,393.65	4,134.20	3,861.10	3,575.97	3,264.12	2,903.79	2,543.42							
1/2	1/2	1/2	1/2	1/2	1/2	4,388.38	4,128.64	3,855.29	3,569.91	3,256.61	2,896.28	2,535.91							
3/4	3/4	3/4	3/4	3/4	3/4	4,383.08	4,123.06	3,849.46	3,563.83	3,249.10	2,888.78	2,528.41							
10	10	10	10	10	10	4,377.79	4,117.48	3,843.63	3,557.75	3,241.60	2,881.27	2,520.90							
1/4	1/4	1/4	1/4	1/4	1/4	4,372.50	4,111.90	3,837.80	3,551.66	3,234.09	2,873.76	2,513.39							
1/2	1/2	1/2	1/2	1/2	1/2	4,367.21	4,106.32	3,831.97	3,545.58	3,226.58	2,866.26	2,505.88							
3/4	3/4	3/4	3/4	3/4	3/4	4,361.89	4,100.72	3,826.12	3,539.48	3,219.08	2,858.75	2,498.37							
11	11	11	11	11	11	4,356.57	4,095.12	3,820.26	3,533.38	3,211.57	2,851.24	2,490.87							
1/4	1/4	1/4	1/4	1/4	1/4	4,351.26	4,089.52	3,814.41	3,527.28	3,204.06	2,843.74	2,483.36							
1/2	1/2	1/2	1/2	1/2	1/2	4,345.94	4,083.92	3,808.55	3,521.18	3,196.56	2,836.23	2,475.85							
3/4	3/4	3/4	3/4	3/4	3/4	4,340.61	4,078.29	3,802.68	3,515.05	3,189.05	2,828.72	2,468.35							

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'-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 28023"

3 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	2,460.84	0	2,100.52	0	1,743.12	0	1,382.82	0	1,026.01	0	672.84	0	316.19	0		0		0	
1/4	2,453.34	1/4	2,093.01	1/4	1,735.67	1/4	1,375.31	1/4	1,018.64	1/4	665.50	1/4	308.68	1/4		1/4		1/4	
1/2	2,445.83	1/2	2,085.50	1/2	1,728.23	1/2	1,367.80	1/2	1,011.28	1/2	658.16	1/2	301.17	1/2		1/2		1/2	
3/4	2,438.33	3/4	2,078.05	3/4	1,720.72	3/4	1,360.29	3/4	1,003.91	3/4	650.81	3/4	293.66	3/4		3/4		3/4	
1	2,430.82	1	2,070.61	1	1,713.21	1	1,352.78	1	996.55	1	643.47	1	286.15	1		1		1	
1/4	2,423.32	1/4	2,063.17	1/4	1,705.70	1/4	1,345.28	1/4	989.18	1/4	636.13	1/4	278.64	1/4		1/4		1/4	
1/2	2,415.81	1/2	2,055.73	1/2	1,698.19	1/2	1,337.77	1/2	981.82	1/2	628.79	1/2	271.13	1/2		1/2		1/2	
3/4	2,408.31	3/4	2,048.28	3/4	1,690.68	3/4	1,330.26	3/4	974.45	3/4	621.45	3/4	263.62	3/4		3/4		3/4	
2	2,400.81	2	2,040.84	2	1,683.18	2	1,322.75	2	967.08	2	614.11	2	256.11	2		2		2	
1/4	2,393.30	1/4	2,033.40	1/4	1,675.67	1/4	1,315.24	1/4	959.72	1/4	606.77	1/4	248.60	1/4		1/4		1/4	
1/2	2,385.80	1/2	2,025.95	1/2	1,668.16	1/2	1,307.73	1/2	952.35	1/2	599.43	1/2	241.09	1/2		1/2		1/2	
3/4	2,378.29	3/4	2,018.51	3/4	1,660.65	3/4	1,300.22	3/4	944.99	3/4	592.09	3/4	233.58	3/4		3/4		3/4	
3	2,370.79	3	2,011.07	3	1,653.14	3	1,292.71	3	937.62	3	584.75	3	226.07	3		3		3	
1/4	2,363.28	1/4	2,003.62	1/4	1,645.63	1/4	1,285.20	1/4	930.26	1/4	577.41	1/4	218.56	1/4		1/4		1/4	
1/2	2,355.78	1/2	1,996.18	1/2	1,638.12	1/2	1,277.70	1/2	922.89	1/2	570.07	1/2	211.05	1/2		1/2		1/2	
3/4	2,348.28	3/4	1,988.74	3/4	1,630.61	3/4	1,270.19	3/4	915.53	3/4	562.71	3/4	203.53	3/4		3/4		3/4	
4	2,340.77	4	1,981.29	4	1,623.10	4	1,262.68	4	908.16	4	555.36	4	196.00	4		4		4	
1/4	2,333.27	1/4	1,973.85	1/4	1,615.60	1/4	1,255.17	1/4	900.80	1/4	548.00	1/4	188.48	1/4		1/4		1/4	
1/2	2,325.76	1/2	1,966.41	1/2	1,608.09	1/2	1,247.66	1/2	893.43	1/2	540.65	1/2	180.96	1/2		1/2		1/2	
3/4	2,318.26	3/4	1,958.97	3/4	1,600.58	3/4	1,240.15	3/4	886.06	3/4	533.28	3/4	173.44	3/4		3/4		3/4	
5	2,310.75	5	1,951.52	5	1,593.07	5	1,232.64	5	878.70	5	525.91	5	165.92	5		5		5	
1/4	2,303.25	1/4	1,944.08	1/4	1,585.56	1/4	1,225.13	1/4	871.33	1/4	518.54	1/4	158.40	1/4		1/4		1/4	
1/2	2,295.74	1/2	1,936.64	1/2	1,578.05	1/2	1,217.62	1/2	863.97	1/2	511.17	1/2	150.88	1/2		1/2		1/2	
3/4	2,288.24	3/4	1,929.19	3/4	1,570.54	3/4	1,210.25	3/4	856.60	3/4	503.73	3/4	143.35	3/4		3/4		3/4	
6	2,280.73	6	1,921.75	6	1,563.03	6	1,202.88	6	849.22	6	496.29	6	135.83	6		6		6	
1/4	2,273.22	1/4	1,914.31	1/4	1,555.52	1/4	1,195.51	1/4	841.85	1/4	488.85	1/4	128.31	1/4		1/4		1/4	
1/2	2,265.71	1/2	1,906.86	1/2	1,548.02	1/2	1,188.13	1/2	834.48	1/2	481.40	1/2	120.79	1/2		1/2		1/2	
3/4	2,258.20	3/4	1,899.42	3/4	1,540.51	3/4	1,180.76	3/4	827.11	3/4	473.89	3/4	113.27	3/4		3/4		3/4	
7	2,250.69	7	1,891.98	7	1,533.00	7	1,173.39	7	819.74	7	466.38	7	105.75	7		7		7	
1/4	2,243.18	1/4	1,884.53	1/4	1,525.49	1/4	1,166.02	1/4	812.37	1/4	458.87	1/4	98.22	1/4		1/4		1/4	
1/2	2,235.67	1/2	1,877.09	1/2	1,517.98	1/2	1,158.64	1/2	805.01	1/2	451.36	1/2	90.70	1/2		1/2		1/2	
3/4	2,228.17	3/4	1,869.65	3/4	1,510.47	3/4	1,151.27	3/4	797.65	3/4	443.85	3/4	83.18	3/4		3/4		3/4	
8	2,220.66	8	1,862.20	8	1,502.96	8	1,143.90	8	790.30	8	436.34	8	75.66	8		8		8	
1/4	2,213.15	1/4	1,854.76	1/4	1,495.45	1/4	1,136.53	1/4	782.95	1/4	428.83	1/4	68.14	1/4		1/4		1/4	
1/2	2,205.64	1/2	1,847.32	1/2	1,487.94	1/2	1,129.15	1/2	775.60	1/2	421.33	1/2	60.62	1/2		1/2		1/2	
3/4	2,198.13	3/4	1,839.88	3/4	1,480.44	3/4	1,121.78	3/4	768.26	3/4	413.82	3/4	54.03	3/4		3/4		3/4	
9	2,190.62	9	1,832.43	9	1,472.93	9	1,114.41	9	760.92	9	406.31	9	47.45	9		9		9	
1/4	2,183.11	1/4	1,824.99	1/4	1,465.42	1/4	1,107.04	1/4	753.58	1/4	398.80	1/4	40.87	1/4		1/4		1/4	
1/2	2,175.60	1/2	1,817.55	1/2	1,457.91	1/2	1,099.66	1/2	746.24	1/2	391.29	1/2	34.29	1/2		1/2		1/2	
3/4	2,168.09	3/4	1,810.10	3/4	1,450.40	3/4	1,092.30	3/4	738.90	3/4	383.78	3/4	29.59	3/4		3/4		3/4	
10	2,160.59	10	1,802.66	10	1,442.89	10	1,084.93	10	731.56	10	376.27	10	24.89	10		10		10	
1/4	2,153.08	1/4	1,795.22	1/4	1,435.38	1/4	1,077.57	1/4	724.22	1/4	368.76	1/4	20.19	1/4		1/4		1/4	
1/2	2,145.57	1/2	1,787.77	1/2	1,427.87	1/2	1,070.20	1/2	716.88	1/2	361.25	1/2	15.49	1/2		1/2		1/2	
3/4	2,138.06	3/4	1,780.33	3/4	1,420.36	3/4	1,062.84	3/4	709.54	3/4	353.74	3/4		3/4		3/4		3/4	
11	2,130.55	11	1,772.89	11	1,412.86	11	1,055.47	11	702.20	11	346.23	11		11		11		11	
1/4	2,123.04	1/4	1,765.44	1/4	1,405.35	1/4	1,048.11	1/4	694.86	1/4	338.72	1/4		1/4		1/4		1/4	
1/2	2,115.53	1/2	1,758.00	1/2	1,397.84	1/2	1,040.74	1/2	687.52	1/2	331.21	1/2		1/2		1/2		1/2	
3/4	2,108.02	3/4	1,750.56	3/4	1,390.33	3/4	1,033.37	3/4	680.18	3/4	323.70	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/01/2002 CL - SW
CALCULATED: 07/02/2002 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2002

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