



# BARGE "KIRBY 28116"

## ULLAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	00-1/2	- 00-1/2	00-7/8	- 00-7/8	01-3/8	- 01-3/8	01-3/4	- 01-3/4	02-1/4	- 02-1/4	02-3/4	- 02-3/4
1 STBD	00-1/2	- 00-1/2	00-7/8	- 00-7/8	01-3/8	- 01-3/8	01-3/4	- 01-3/4	02-1/4	- 02-1/4	02-3/4	- 02-3/4
2 PORT	00-3/8	- 00-3/8	00-7/8	- 00-7/8	01-1/4	- 01-1/4	01-3/4	- 01-3/4	02-1/8	- 02-1/8	02-5/8	- 02-5/8
2 STBD	00-3/8	- 00-3/8	00-7/8	- 00-7/8	01-1/4	- 01-1/4	01-3/4	- 01-3/4	02-1/8	- 02-1/8	02-5/8	- 02-5/8
3 PORT	00-1/2	- 00-1/2	00-7/8	- 00-7/8	01-3/8	- 01-3/8	01-3/4	- 01-3/4	02-1/4	- 02-1/4	02-3/4	- 02-3/4
3 STBD	00-1/2	- 00-1/2	00-7/8	- 00-7/8	01-3/8	- 01-3/8	01-3/4	- 01-3/4	02-1/4	- 02-1/4	02-3/4	- 02-3/4

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

LENGTH BETWEEN DRAFT MARKS: 241'-06"

August 28, 2009

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

<http://www.pmacorp.net>



# BARGE "KIRBY 28116"

## 1 PORT

### ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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

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 53'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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Portland, Texas 77588

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# BARGE "KIRBY 28116"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
0	2,359.16	0	1,992.32	0	1,625.46	0	1,259.26	0	894.57	0	528.03	0	181.78	0		0		0	
1/4	2,351.52	1/4	1,984.68	1/4	1,617.82	1/4	1,251.61	1/4	886.98	1/4	520.39	1/4	175.08	1/4		1/4		1/4	
1/2	2,343.88	1/2	1,977.04	1/2	1,610.18	1/2	1,243.97	1/2	879.40	1/2	512.74	1/2	168.37	1/2		1/2		1/2	
3/4	2,336.24	3/4	1,969.39	3/4	1,602.53	3/4	1,236.33	3/4	871.79	3/4	505.12	3/4	161.75	3/4		3/4		3/4	
1	2,328.59	1	1,961.75	1	1,594.89	1	1,228.68	1	864.19	1	497.50	1	155.12	1		1		1	
1/4	2,320.95	1/4	1,954.11	1/4	1,587.25	1/4	1,221.04	1/4	856.59	1/4	489.87	1/4	148.50	1/4		1/4		1/4	
1/2	2,313.31	1/2	1,946.47	1/2	1,579.61	1/2	1,213.40	1/2	848.99	1/2	482.25	1/2	141.88	1/2		1/2		1/2	
3/4	2,305.67	3/4	1,938.82	3/4	1,571.96	3/4	1,205.77	3/4	841.36	3/4	474.69	3/4	135.35	3/4		3/4		3/4	
2	2,298.02	2	1,931.18	2	1,564.32	2	1,198.14	2	833.73	2	467.13	2	128.82	2		2		2	
1/4	2,290.38	1/4	1,923.54	1/4	1,556.68	1/4	1,190.51	1/4	826.10	1/4	459.58	1/4	122.29	1/4		1/4		1/4	
1/2	2,282.74	1/2	1,915.89	1/2	1,549.03	1/2	1,182.88	1/2	818.48	1/2	452.02	1/2	115.77	1/2		1/2		1/2	
3/4	2,275.10	3/4	1,908.25	3/4	1,541.39	3/4	1,175.28	3/4	810.83	3/4	444.54	3/4	109.33	3/4		3/4		3/4	
3	2,267.45	3	1,900.61	3	1,533.75	3	1,167.68	3	803.19	3	437.07	3	102.90	3		3		3	
1/4	2,259.81	1/4	1,892.97	1/4	1,526.11	1/4	1,160.08	1/4	795.55	1/4	429.60	1/4	96.47	1/4		1/4		1/4	
1/2	2,252.17	1/2	1,885.32	1/2	1,518.46	1/2	1,152.48	1/2	787.90	1/2	422.12	1/2	90.04	1/2		1/2		1/2	
3/4	2,244.53	3/4	1,877.68	3/4	1,510.82	3/4	1,144.89	3/4	780.26	3/4	414.73	3/4	83.71	3/4		3/4		3/4	
4	2,236.88	4	1,870.04	4	1,503.18	4	1,137.30	4	772.62	4	407.35	4	77.38	4		4		4	
1/4	2,229.24	1/4	1,862.39	1/4	1,495.53	1/4	1,129.71	1/4	764.97	1/4	399.96	1/4	71.06	1/4		1/4		1/4	
1/2	2,221.60	1/2	1,854.75	1/2	1,487.89	1/2	1,122.13	1/2	757.33	1/2	392.57	1/2	64.73	1/2		1/2		1/2	
3/4	2,213.95	3/4	1,847.11	3/4	1,480.26	3/4	1,114.54	3/4	749.69	3/4	385.26	3/4	58.52	3/4		3/4		3/4	
5	2,206.31	5	1,839.46	5	1,472.63	5	1,106.96	5	742.04	5	377.96	5	52.31	5		5		5	
1/4	2,198.67	1/4	1,831.82	1/4	1,465.00	1/4	1,099.37	1/4	734.40	1/4	370.66	1/4	46.10	1/4		1/4		1/4	
1/2	2,191.03	1/2	1,824.18	1/2	1,457.38	1/2	1,091.79	1/2	726.76	1/2	363.35	1/2	39.89	1/2		1/2		1/2	
3/4	2,183.38	3/4	1,816.54	3/4	1,449.76	3/4	1,084.20	3/4	719.11	3/4	356.13	3/4	34.38	3/4		3/4		3/4	
6	2,175.74	6	1,808.89	6	1,442.14	6	1,076.62	6	711.47	6	348.92	6	28.87	6		6		6	
1/4	2,168.10	1/4	1,801.25	1/4	1,434.53	1/4	1,069.03	1/4	703.83	1/4	341.70	1/4	23.36	1/4		1/4		1/4	
1/2	2,160.46	1/2	1,793.61	1/2	1,426.91	1/2	1,061.45	1/2	696.18	1/2	334.48	1/2	17.85	1/2		1/2		1/2	
3/4	2,152.81	3/4	1,785.96	3/4	1,419.30	3/4	1,053.86	3/4	688.54	3/4	327.34	3/4	14.28	3/4		3/4		3/4	
7	2,145.17	7	1,778.32	7	1,411.68	7	1,046.28	7	680.90	7	320.21	7	10.72	7		7		7	
1/4	2,137.53	1/4	1,770.68	1/4	1,404.07	1/4	1,038.69	1/4	673.25	1/4	313.08	1/4	7.16	1/4		1/4		1/4	
1/2	2,129.89	1/2	1,763.04	1/2	1,396.45	1/2	1,031.11	1/2	665.61	1/2	305.94	1/2	3.59	1/2		1/2		1/2	
3/4	2,122.24	3/4	1,755.39	3/4	1,388.84	3/4	1,023.52	3/4	657.97	3/4	298.89	3/4		3/4		3/4		3/4	
8	2,114.60	8	1,747.75	8	1,381.22	8	1,015.94	8	650.33	8	291.85	8		8		8		8	
1/4	2,106.96	1/4	1,740.11	1/4	1,373.61	1/4	1,008.35	1/4	642.68	1/4	284.80	1/4		1/4		1/4		1/4	
1/2	2,099.32	1/2	1,732.46	1/2	1,365.99	1/2	1,000.77	1/2	635.04	1/2	277.75	1/2		1/2		1/2		1/2	
3/4	2,091.67	3/4	1,724.82	3/4	1,358.37	3/4	993.18	3/4	627.40	3/4	270.78	3/4		3/4		3/4		3/4	
9	2,084.03	9	1,717.18	9	1,350.76	9	985.60	9	619.75	9	263.82	9		9		9		9	
1/4	2,076.39	1/4	1,709.54	1/4	1,343.14	1/4	978.01	1/4	612.11	1/4	256.86	1/4		1/4		1/4		1/4	
1/2	2,068.75	1/2	1,701.89	1/2	1,335.53	1/2	970.42	1/2	604.46	1/2	249.89	1/2		1/2		1/2		1/2	
3/4	2,061.10	3/4	1,694.25	3/4	1,327.91	3/4	962.84	3/4	596.82	3/4	243.01	3/4		3/4		3/4		3/4	
10	2,053.46	10	1,686.61	10	1,320.30	10	955.25	10	589.18	10	236.13	10		10		10		10	
1/4	2,045.82	1/4	1,678.96	1/4	1,312.68	1/4	947.67	1/4	581.53	1/4	229.26	1/4		1/4		1/4		1/4	
1/2	2,038.17	1/2	1,671.32	1/2	1,305.06	1/2	940.08	1/2	573.89	1/2	222.38	1/2		1/2		1/2		1/2	
3/4	2,030.53	3/4	1,663.68	3/4	1,297.43	3/4	932.50	3/4	566.25	3/4	215.58	3/4		3/4		3/4		3/4	
11	2,022.89	11	1,656.04	11	1,289.80	11	924.91	11	558.60	11	208.79	11		11		11		11	
1/4	2,015.25	1/4	1,648.39	1/4	1,282.18	1/4	917.33	1/4	550.96	1/4	202.00	1/4		1/4		1/4		1/4	
1/2	2,007.60	1/2	1,640.75	1/2	1,274.55	1/2	909.74	1/2	543.32	1/2	195.20	1/2		1/2		1/2		1/2	
3/4	1,999.96	3/4	1,633.11	3/4	1,266.90	3/4	902.16	3/4	535.67	3/4	188.49	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/27/2009 CL - SW  
 CALCULATED: 08/28/2009 CL  
 PRINTED: 08/28/2009 CL  
 CANCELS AND SUPERCEDES  
 ALL PRIOR TO 08/2009

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





# BARGE "KIRBY 28116"

## 1 STBD

### ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
0	2,335.97	0	1,969.39	0	1,602.79	0	1,236.84	0	871.31	0	504.75	0	161.63	0		0		0	
1/4	2,328.33	1/4	1,961.75	1/4	1,595.15	1/4	1,229.20	1/4	863.69	1/4	497.14	1/4	155.01	1/4		1/4		1/4	
1/2	2,320.69	1/2	1,954.11	1/2	1,587.51	1/2	1,221.56	1/2	856.06	1/2	489.52	1/2	148.39	1/2		1/2		1/2	
3/4	2,313.06	3/4	1,946.47	3/4	1,579.87	3/4	1,213.92	3/4	848.44	3/4	481.90	3/4	141.78	3/4		3/4		3/4	
1	2,305.42	1	1,938.84	1	1,572.24	1	1,206.29	1	840.80	1	474.35	1	135.25	1		1		1	
1/4	2,297.78	1/4	1,931.20	1/4	1,564.60	1/4	1,198.65	1/4	833.16	1/4	466.80	1/4	128.73	1/4		1/4		1/4	
1/2	2,290.14	1/2	1,923.56	1/2	1,556.96	1/2	1,191.01	1/2	825.53	1/2	459.24	1/2	122.20	1/2		1/2		1/2	
3/4	2,282.51	3/4	1,915.92	3/4	1,549.32	3/4	1,183.37	3/4	817.89	3/4	451.69	3/4	115.68	3/4		3/4		3/4	
2	2,274.87	2	1,908.29	2	1,541.69	2	1,175.75	2	810.25	2	444.22	2	109.25	2		2		2	
1/4	2,267.23	1/4	1,900.65	1/4	1,534.05	1/4	1,168.12	1/4	802.61	1/4	436.75	1/4	102.82	1/4		1/4		1/4	
1/2	2,259.60	1/2	1,893.01	1/2	1,526.41	1/2	1,160.50	1/2	794.97	1/2	429.28	1/2	96.40	1/2		1/2		1/2	
3/4	2,251.96	3/4	1,885.37	3/4	1,518.77	3/4	1,152.87	3/4	787.34	3/4	421.82	3/4	89.97	3/4		3/4		3/4	
3	2,244.32	3	1,877.74	3	1,511.14	3	1,145.26	3	779.70	3	414.43	3	83.65	3		3		3	
1/4	2,236.68	1/4	1,870.10	1/4	1,503.50	1/4	1,137.65	1/4	772.06	1/4	407.05	1/4	77.32	1/4		1/4		1/4	
1/2	2,229.05	1/2	1,862.46	1/2	1,495.86	1/2	1,130.04	1/2	764.42	1/2	399.67	1/2	71.00	1/2		1/2		1/2	
3/4	2,221.41	3/4	1,854.82	3/4	1,488.22	3/4	1,122.43	3/4	756.78	3/4	392.28	3/4	64.68	3/4		3/4		3/4	
4	2,213.77	4	1,847.19	4	1,480.60	4	1,114.82	4	749.15	4	384.98	4	58.48	4		4		4	
1/4	2,206.13	1/4	1,839.55	1/4	1,472.98	1/4	1,107.21	1/4	741.51	1/4	377.68	1/4	52.27	1/4		1/4		1/4	
1/2	2,198.50	1/2	1,831.91	1/2	1,465.35	1/2	1,099.60	1/2	733.87	1/2	370.39	1/2	46.07	1/2		1/2		1/2	
3/4	2,190.86	3/4	1,824.27	3/4	1,457.73	3/4	1,091.99	3/4	726.23	3/4	363.09	3/4	39.86	3/4		3/4		3/4	
5	2,183.22	5	1,816.64	5	1,450.12	5	1,084.38	5	718.60	5	355.87	5	34.36	5		5		5	
1/4	2,175.59	1/4	1,809.00	1/4	1,442.51	1/4	1,076.77	1/4	710.96	1/4	348.66	1/4	28.85	1/4		1/4		1/4	
1/2	2,167.95	1/2	1,801.36	1/2	1,434.90	1/2	1,069.17	1/2	703.32	1/2	341.45	1/2	23.34	1/2		1/2		1/2	
3/4	2,160.31	3/4	1,793.72	3/4	1,427.29	3/4	1,061.56	3/4	695.68	3/4	334.23	3/4	17.83	3/4		3/4		3/4	
6	2,152.67	6	1,786.09	6	1,419.68	6	1,053.95	6	688.04	6	327.10	6	14.27	6		6		6	
1/4	2,145.04	1/4	1,778.45	1/4	1,412.07	1/4	1,046.34	1/4	680.41	1/4	319.98	1/4	10.71	1/4		1/4		1/4	
1/2	2,137.40	1/2	1,770.81	1/2	1,404.46	1/2	1,038.73	1/2	672.77	1/2	312.85	1/2	7.15	1/2		1/2		1/2	
3/4	2,129.76	3/4	1,763.17	3/4	1,396.85	3/4	1,031.12	3/4	665.13	3/4	305.72	3/4	3.59	3/4		3/4		3/4	
7	2,122.13	7	1,755.54	7	1,389.24	7	1,023.51	7	657.49	7	298.67	7		7		7		7	
1/4	2,114.49	1/4	1,747.90	1/4	1,381.63	1/4	1,015.90	1/4	649.86	1/4	291.63	1/4		1/4		1/4		1/4	
1/2	2,106.85	1/2	1,740.26	1/2	1,374.02	1/2	1,008.30	1/2	642.22	1/2	284.59	1/2		1/2		1/2		1/2	
3/4	2,099.21	3/4	1,732.62	3/4	1,366.41	3/4	1,000.69	3/4	634.58	3/4	277.54	3/4		3/4		3/4		3/4	
8	2,091.58	8	1,724.99	8	1,358.80	8	993.08	8	626.94	8	270.58	8		8		8		8	
1/4	2,083.94	1/4	1,717.35	1/4	1,351.19	1/4	985.47	1/4	619.30	1/4	263.63	1/4		1/4		1/4		1/4	
1/2	2,076.30	1/2	1,709.71	1/2	1,343.58	1/2	977.86	1/2	611.67	1/2	256.67	1/2		1/2		1/2		1/2	
3/4	2,068.67	3/4	1,702.07	3/4	1,335.97	3/4	970.25	3/4	604.03	3/4	249.71	3/4		3/4		3/4		3/4	
9	2,061.03	9	1,694.44	9	1,328.36	9	962.64	9	596.39	9	242.83	9		9		9		9	
1/4	2,053.39	1/4	1,686.80	1/4	1,320.75	1/4	955.03	1/4	588.75	1/4	235.96	1/4		1/4		1/4		1/4	
1/2	2,045.75	1/2	1,679.16	1/2	1,313.14	1/2	947.43	1/2	581.11	1/2	229.09	1/2		1/2		1/2		1/2	
3/4	2,038.12	3/4	1,671.52	3/4	1,305.53	3/4	939.82	3/4	573.48	3/4	222.21	3/4		3/4		3/4		3/4	
10	2,030.48	10	1,663.89	10	1,297.90	10	932.21	10	565.84	10	215.42	10		10		10		10	
1/4	2,022.84	1/4	1,656.25	1/4	1,290.28	1/4	924.60	1/4	558.20	1/4	208.63	1/4		1/4		1/4		1/4	
1/2	2,015.20	1/2	1,648.61	1/2	1,282.65	1/2	916.99	1/2	550.56	1/2	201.85	1/2		1/2		1/2		1/2	
3/4	2,007.57	3/4	1,640.97	3/4	1,275.03	3/4	909.38	3/4	542.92	3/4	195.06	3/4		3/4		3/4		3/4	
11	1,999.93	11	1,633.34	11	1,267.39	11	901.77	11	535.28	11	188.35	11		11		11		11	
1/4	1,992.30	1/4	1,625.70	1/4	1,259.75	1/4	894.16	1/4	527.65	1/4	181.65	1/4		1/4		1/4		1/4	
1/2	1,984.66	1/2	1,618.06	1/2	1,252.12	1/2	886.55	1/2	520.01	1/2	174.95	1/2		1/2		1/2		1/2	
3/4	1,977.02	3/4	1,610.42	3/4	1,244.48	3/4	878.94	3/4	512.37	3/4	168.24	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/27/2009 CL - SW  
CALCULATED: 08/28/2009 CL  
PRINTED: 08/28/2009 CL

CANCEL AND SUPERCEDES  
ALL PRIOR TO 08/2009

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588  
http://www.pmacorp.net



# BARGE "KIRBY 28116"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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

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'-08" OFF CENTERLINE AND 52'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 2092  
 Pearland, Texas 77588  
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CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.



# BARGE "KIRBY 28116"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
0	2,358.60	0	1,994.88	0	1,631.15	0	1,271.31	0	921.93	0	560.61	0	196.86	0		0		0	
1/4	2,351.02	1/4	1,987.30	1/4	1,623.58	1/4	1,263.73	1/4	914.66	1/4	553.03	1/4	189.28	1/4		1/4		1/4	
1/2	2,343.44	1/2	1,979.72	1/2	1,616.00	1/2	1,256.15	1/2	907.40	1/2	545.46	1/2	181.70	1/2		1/2		1/2	
3/4	2,335.87	3/4	1,972.15	3/4	1,608.42	3/4	1,248.72	3/4	900.12	3/4	537.88	3/4	174.14	3/4		3/4		3/4	
1	2,328.29	1	1,964.57	1	1,600.84	1	1,241.30	1	892.84	1	530.30	1	166.57	1		1		1	
1/4	2,320.71	1/4	1,956.99	1/4	1,593.27	1/4	1,233.87	1/4	885.57	1/4	522.72	1/4	159.00	1/4		1/4		1/4	
1/2	2,313.13	1/2	1,949.41	1/2	1,585.69	1/2	1,226.44	1/2	878.29	1/2	515.14	1/2	151.43	1/2		1/2		1/2	
3/4	2,305.56	3/4	1,941.84	3/4	1,578.11	3/4	1,219.18	3/4	870.96	3/4	507.56	3/4	143.87	3/4		3/4		3/4	
2	2,297.98	2	1,934.26	2	1,570.53	2	1,211.91	2	863.44	2	499.99	2	136.32	2		2		2	
1/4	2,290.40	1/4	1,926.68	1/4	1,562.96	1/4	1,204.65	1/4	856.01	1/4	492.41	1/4	128.76	1/4		1/4		1/4	
1/2	2,282.82	1/2	1,919.10	1/2	1,555.38	1/2	1,197.38	1/2	848.58	1/2	484.83	1/2	121.20	1/2		1/2		1/2	
3/4	2,275.25	3/4	1,911.53	3/4	1,547.88	3/4	1,190.13	3/4	841.00	3/4	477.25	3/4	113.67	3/4		3/4		3/4	
3	2,267.67	3	1,903.95	3	1,540.39	3	1,182.88	3	833.43	3	469.67	3	106.13	3		3		3	
1/4	2,260.09	1/4	1,896.37	1/4	1,532.89	1/4	1,175.63	1/4	825.85	1/4	462.09	1/4	98.59	1/4		1/4		1/4	
1/2	2,252.51	1/2	1,888.79	1/2	1,525.39	1/2	1,168.38	1/2	818.27	1/2	454.52	1/2	91.06	1/2		1/2		1/2	
3/4	2,244.94	3/4	1,881.22	3/4	1,517.98	3/4	1,161.14	3/4	810.69	3/4	446.94	3/4	83.55	3/4		3/4		3/4	
4	2,237.36	4	1,873.64	4	1,510.56	4	1,153.89	4	803.11	4	439.36	4	76.05	4		4		4	
1/4	2,229.78	1/4	1,866.06	1/4	1,503.15	1/4	1,146.64	1/4	795.54	1/4	431.78	1/4	68.54	1/4		1/4		1/4	
1/2	2,222.20	1/2	1,858.48	1/2	1,495.73	1/2	1,139.39	1/2	787.96	1/2	424.20	1/2	61.04	1/2		1/2		1/2	
3/4	2,214.63	3/4	1,850.91	3/4	1,488.31	3/4	1,132.15	3/4	780.38	3/4	416.62	3/4	54.14	3/4		3/4		3/4	
5	2,207.05	5	1,843.33	5	1,480.90	5	1,124.90	5	772.80	5	409.04	5	47.25	5		5		5	
1/4	2,199.47	1/4	1,835.75	1/4	1,473.48	1/4	1,117.65	1/4	765.22	1/4	401.47	1/4	40.35	1/4		1/4		1/4	
1/2	2,191.89	1/2	1,828.17	1/2	1,466.07	1/2	1,110.40	1/2	757.65	1/2	393.89	1/2	33.45	1/2		1/2		1/2	
3/4	2,184.32	3/4	1,820.59	3/4	1,458.65	3/4	1,103.16	3/4	750.07	3/4	386.31	3/4	28.40	3/4		3/4		3/4	
6	2,176.74	6	1,813.02	6	1,451.24	6	1,095.91	6	742.49	6	378.73	6	23.35	6		6		6	
1/4	2,169.16	1/4	1,805.44	1/4	1,443.82	1/4	1,088.66	1/4	734.91	1/4	371.15	1/4	18.30	1/4		1/4		1/4	
1/2	2,161.58	1/2	1,797.86	1/2	1,436.41	1/2	1,081.41	1/2	727.33	1/2	363.57	1/2	13.25	1/2		1/2		1/2	
3/4	2,154.01	3/4	1,790.28	3/4	1,428.99	3/4	1,074.17	3/4	719.76	3/4	356.00	3/4		3/4		3/4		3/4	
7	2,146.43	7	1,782.71	7	1,421.57	7	1,066.92	7	712.18	7	348.42	7		7		7		7	
1/4	2,138.85	1/4	1,775.13	1/4	1,414.16	1/4	1,059.67	1/4	704.60	1/4	340.84	1/4		1/4		1/4		1/4	
1/2	2,131.28	1/2	1,767.55	1/2	1,406.74	1/2	1,052.42	1/2	697.02	1/2	333.26	1/2		1/2		1/2		1/2	
3/4	2,123.70	3/4	1,759.97	3/4	1,399.33	3/4	1,045.18	3/4	689.44	3/4	325.68	3/4		3/4		3/4		3/4	
8	2,116.12	8	1,752.40	8	1,391.91	8	1,037.93	8	681.87	8	318.10	8		8		8		8	
1/4	2,108.54	1/4	1,744.82	1/4	1,384.49	1/4	1,030.68	1/4	674.29	1/4	310.53	1/4		1/4		1/4		1/4	
1/2	2,100.97	1/2	1,737.24	1/2	1,377.08	1/2	1,023.43	1/2	666.71	1/2	302.95	1/2		1/2		1/2		1/2	
3/4	2,093.39	3/4	1,729.66	3/4	1,369.58	3/4	1,016.18	3/4	659.13	3/4	295.37	3/4		3/4		3/4		3/4	
9	2,085.81	9	1,722.09	9	1,362.08	9	1,008.94	9	651.55	9	287.79	9		9		9		9	
1/4	2,078.23	1/4	1,714.51	1/4	1,354.59	1/4	1,001.69	1/4	643.98	1/4	280.21	1/4		1/4		1/4		1/4	
1/2	2,070.66	1/2	1,706.93	1/2	1,347.09	1/2	994.44	1/2	636.40	1/2	272.63	1/2		1/2		1/2		1/2	
3/4	2,063.08	3/4	1,699.35	3/4	1,339.51	3/4	987.19	3/4	628.82	3/4	265.06	3/4		3/4		3/4		3/4	
10	2,055.50	10	1,691.78	10	1,331.93	10	979.95	10	621.24	10	257.48	10		10		10		10	
1/4	2,047.92	1/4	1,684.20	1/4	1,324.35	1/4	972.70	1/4	613.66	1/4	249.90	1/4		1/4		1/4		1/4	
1/2	2,040.35	1/2	1,676.62	1/2	1,316.78	1/2	965.45	1/2	606.08	1/2	242.32	1/2		1/2		1/2		1/2	
3/4	2,032.77	3/4	1,669.04	3/4	1,309.20	3/4	958.20	3/4	598.50	3/4	234.74	3/4		3/4		3/4		3/4	
11	2,025.19	11	1,661.47	11	1,301.62	11	950.95	11	590.93	11	227.16	11		11		11		11	
1/4	2,017.61	1/4	1,653.89	1/4	1,294.04	1/4	943.70	1/4	583.35	1/4	219.59	1/4		1/4		1/4		1/4	
1/2	2,010.03	1/2	1,646.31	1/2	1,286.46	1/2	936.45	1/2	575.77	1/2	212.01	1/2		1/2		1/2		1/2	
3/4	2,002.46	3/4	1,638.73	3/4	1,278.89	3/4	929.19	3/4	568.19	3/4	204.43	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/27/2009 CL - SW  
 CALCULATED: 08/28/2009 CL  
 PRINTED: 08/28/2009 CL  
 CANCEL AND SUPERCEDES  
 ALL PRIOR TO 08/2009

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



# BARGE "KIRBY 28116"

# 2 STBD

# ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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

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'-08" OFF CENTERLINE AND 52'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.





# BARGE "KIRBY 28116"

## 2 STBD

### ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
0	2,404.87	0	2,041.11	0	1,677.34	0	1,317.45	0	954.68	0	591.00	0	227.19	0	0	0	0	0	0
1/4	2,397.29	1/4	2,033.53	1/4	1,669.76	1/4	1,309.87	1/4	947.13	1/4	583.42	1/4	219.81	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,389.71	1/2	2,025.95	1/2	1,662.18	1/2	1,302.29	1/2	939.58	1/2	575.84	1/2	212.03	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,382.13	3/4	2,018.37	3/4	1,654.60	3/4	1,294.71	3/4	932.01	3/4	568.26	3/4	204.46	3/4	3/4	3/4	3/4	3/4	3/4
1	2,374.55	1	2,010.79	1	1,647.03	1	1,287.13	1	924.45	1	560.68	1	196.88	1	1	1	1	1	1
1/4	2,366.98	1/4	2,003.21	1/4	1,639.45	1/4	1,279.56	1/4	916.88	1/4	553.10	1/4	189.30	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,359.40	1/2	1,995.64	1/2	1,631.87	1/2	1,271.98	1/2	909.31	1/2	545.52	1/2	181.73	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,351.82	3/4	1,988.06	3/4	1,624.29	3/4	1,264.40	3/4	901.73	3/4	537.94	3/4	174.16	3/4	3/4	3/4	3/4	3/4	3/4
2	2,344.24	2	1,980.48	2	1,616.71	2	1,256.82	2	894.15	2	530.36	2	166.59	2	2	2	2	2	2
1/4	2,336.66	1/4	1,972.90	1/4	1,609.13	1/4	1,249.24	1/4	886.58	1/4	522.78	1/4	159.02	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,329.08	1/2	1,965.32	1/2	1,601.55	1/2	1,241.66	1/2	879.00	1/2	515.20	1/2	151.45	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,321.51	3/4	1,957.74	3/4	1,593.98	3/4	1,234.09	3/4	871.42	3/4	507.62	3/4	143.89	3/4	3/4	3/4	3/4	3/4	3/4
3	2,313.93	3	1,950.17	3	1,586.40	3	1,226.53	3	863.84	3	500.05	3	136.33	3	3	3	3	3	3
1/4	2,306.35	1/4	1,942.59	1/4	1,578.82	1/4	1,218.96	1/4	856.26	1/4	492.47	1/4	128.78	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,298.77	1/2	1,935.01	1/2	1,571.24	1/2	1,211.39	1/2	848.68	1/2	484.89	1/2	121.22	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,291.19	3/4	1,927.43	3/4	1,563.74	3/4	1,203.84	3/4	841.10	3/4	477.31	3/4	113.68	3/4	3/4	3/4	3/4	3/4	3/4
4	2,283.61	4	1,919.85	4	1,556.25	4	1,196.29	4	833.52	4	469.73	4	106.14	4	4	4	4	4	4
1/4	2,276.04	1/4	1,912.27	1/4	1,548.75	1/4	1,188.74	1/4	825.95	1/4	462.15	1/4	98.60	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,268.46	1/2	1,904.69	1/2	1,541.25	1/2	1,181.19	1/2	818.37	1/2	454.57	1/2	91.07	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,260.88	3/4	1,897.12	3/4	1,533.83	3/4	1,173.64	3/4	810.79	3/4	446.99	3/4	83.56	3/4	3/4	3/4	3/4	3/4	3/4
5	2,253.30	5	1,889.54	5	1,526.42	5	1,166.09	5	803.21	5	439.41	5	76.06	5	5	5	5	5	5
1/4	2,245.72	1/4	1,881.96	1/4	1,519.00	1/4	1,158.54	1/4	795.63	1/4	431.83	1/4	68.55	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,238.14	1/2	1,874.38	1/2	1,511.58	1/2	1,150.99	1/2	788.05	1/2	424.25	1/2	61.05	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,230.57	3/4	1,866.80	3/4	1,504.17	3/4	1,143.44	3/4	780.47	3/4	416.67	3/4	54.15	3/4	3/4	3/4	3/4	3/4	3/4
6	2,222.99	6	1,859.22	6	1,496.75	6	1,135.89	6	772.89	6	409.09	6	47.25	6	6	6	6	6	6
1/4	2,215.41	1/4	1,851.64	1/4	1,489.34	1/4	1,128.34	1/4	765.32	1/4	401.51	1/4	40.36	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,207.83	1/2	1,844.07	1/2	1,481.92	1/2	1,120.79	1/2	757.74	1/2	393.93	1/2	33.46	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,200.25	3/4	1,836.49	3/4	1,474.50	3/4	1,113.24	3/4	750.16	3/4	386.36	3/4	28.41	3/4	3/4	3/4	3/4	3/4	3/4
7	2,192.67	7	1,828.91	7	1,467.09	7	1,105.69	7	742.58	7	378.78	7	23.36	7	7	7	7	7	7
1/4	2,185.10	1/4	1,821.33	1/4	1,459.67	1/4	1,098.14	1/4	735.00	1/4	371.20	1/4	18.31	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,177.52	1/2	1,813.75	1/2	1,452.25	1/2	1,090.59	1/2	727.42	1/2	363.62	1/2	13.26	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,169.94	3/4	1,806.17	3/4	1,444.84	3/4	1,083.04	3/4	719.84	3/4	356.04	3/4	8.88	3/4	3/4	3/4	3/4	3/4	3/4
8	2,162.36	8	1,798.60	8	1,437.42	8	1,075.49	8	712.26	8	348.46	8	4.44	8	8	8	8	8	8
1/4	2,154.78	1/4	1,791.02	1/4	1,430.00	1/4	1,067.94	1/4	704.68	1/4	340.88	1/4	0.00	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,147.20	1/2	1,783.44	1/2	1,422.59	1/2	1,060.39	1/2	697.11	1/2	333.30	1/2	0.00	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,139.63	3/4	1,775.86	3/4	1,415.17	3/4	1,052.84	3/4	689.53	3/4	325.72	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4
9	2,132.05	9	1,768.28	9	1,407.75	9	1,045.29	9	681.95	9	318.14	9	0.00	9	9	9	9	9	9
1/4	2,124.47	1/4	1,760.70	1/4	1,400.34	1/4	1,037.74	1/4	674.37	1/4	310.56	1/4	0.00	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,116.89	1/2	1,753.12	1/2	1,392.92	1/2	1,030.19	1/2	666.79	1/2	302.98	1/2	0.00	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,109.31	3/4	1,745.55	3/4	1,385.42	3/4	1,022.64	3/4	659.21	3/4	295.40	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4
10	2,101.74	10	1,737.97	10	1,377.92	10	1,015.09	10	651.63	10	287.82	10	0.00	10	10	10	10	10	10
1/4	2,094.16	1/4	1,730.39	1/4	1,370.42	1/4	1,007.54	1/4	644.05	1/4	280.25	1/4	0.00	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,086.58	1/2	1,722.81	1/2	1,362.93	1/2	1,000.00	1/2	636.47	1/2	272.67	1/2	0.00	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,079.00	3/4	1,715.23	3/4	1,355.35	3/4	992.44	3/4	628.89	3/4	265.09	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4
11	2,071.42	11	1,707.65	11	1,347.77	11	984.89	11	621.31	11	257.51	11	0.00	11	11	11	11	11	11
1/4	2,063.84	1/4	1,700.07	1/4	1,340.19	1/4	977.34	1/4	613.73	1/4	249.93	1/4	0.00	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,056.27	1/2	1,692.50	1/2	1,332.61	1/2	969.79	1/2	606.16	1/2	242.35	1/2	0.00	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,048.69	3/4	1,684.92	3/4	1,325.03	3/4	962.23	3/4	598.58	3/4	234.77	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/27/2009 CL - SW  
 CALCULATED: 08/28/2009 CL  
 PRINTED: 08/28/2009 CL  
 CANCELS AND SUPERCEDES  
 ALL PRIOR TO 08/2009

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



# BARGE "KIRBY 28116"

## 3 PORT

### ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH 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 52'-09" FORWARD OF AFT BULKHEAD.

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



BARGE "KIRBY 28116"

3 PORT  
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

Table with columns for GAUGE HEIGHT 16'-05 1/4" and 19 FT., and rows for various capacity measurements (IN 10 FT. to IN 19 FT.).

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/27/2009 CL - SW  
CALCULATED: 08/28/2009 CL  
PRINTED: 08/28/2009 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2009

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

Signature





# BARGE "KIRBY 28116"

3 STBD

ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
0	2,297.32	0	1,932.61	0	1,567.88	0	1,207.04	0	843.38	0	478.66	0	116.44	0		0		0	
1/4	2,289.73	1/4	1,925.01	1/4	1,560.28	1/4	1,199.44	1/4	835.79	1/4	471.06	1/4	110.11	1/4		1/4		1/4	
1/2	2,282.13	1/2	1,917.41	1/2	1,552.69	1/2	1,191.84	1/2	828.20	1/2	463.47	1/2	103.77	1/2		1/2		1/2	
3/4	2,274.53	3/4	1,909.81	3/4	1,545.09	3/4	1,184.24	3/4	820.62	3/4	455.87	3/4	97.44	3/4		3/4		3/4	
1	2,266.93	1	1,902.21	1	1,537.49	1	1,176.64	1	813.02	1	448.27	1	92.38	1		1		1	
1/4	2,259.33	1/4	1,894.61	1/4	1,529.89	1/4	1,169.04	1/4	805.42	1/4	440.67	1/4	87.32	1/4		1/4		1/4	
1/2	2,251.74	1/2	1,887.02	1/2	1,522.29	1/2	1,161.44	1/2	797.82	1/2	433.07	1/2	82.26	1/2		1/2		1/2	
3/4	2,244.14	3/4	1,879.42	3/4	1,514.69	3/4	1,153.84	3/4	790.22	3/4	425.47	3/4	77.20	3/4		3/4		3/4	
2	2,236.54	2	1,871.82	2	1,507.10	2	1,146.26	2	782.62	2	417.87	2	73.42	2		2		2	
1/4	2,228.94	1/4	1,864.22	1/4	1,499.50	1/4	1,138.67	1/4	775.03	1/4	410.27	1/4	69.64	1/4		1/4		1/4	
1/2	2,221.34	1/2	1,856.62	1/2	1,491.90	1/2	1,131.08	1/2	767.43	1/2	402.67	1/2	65.86	1/2		1/2		1/2	
3/4	2,213.74	3/4	1,849.02	3/4	1,484.30	3/4	1,123.50	3/4	759.83	3/4	395.07	3/4	62.08	3/4		3/4		3/4	
3	2,206.15	3	1,841.43	3	1,476.78	3	1,115.92	3	752.23	3	387.47	3	59.58	3		3		3	
1/4	2,198.55	1/4	1,833.83	1/4	1,469.27	1/4	1,108.35	1/4	744.63	1/4	379.87	1/4	57.08	1/4		1/4		1/4	
1/2	2,190.95	1/2	1,826.23	1/2	1,461.75	1/2	1,100.78	1/2	737.03	1/2	372.28	1/2	54.58	1/2		1/2		1/2	
3/4	2,183.35	3/4	1,818.63	3/4	1,454.23	3/4	1,093.21	3/4	729.43	3/4	364.68	3/4	52.09	3/4		3/4		3/4	
4	2,175.75	4	1,811.03	4	1,446.79	4	1,085.64	4	721.83	4	357.08	4	50.89	4		4		4	
1/4	2,168.16	1/4	1,803.43	1/4	1,439.36	1/4	1,078.07	1/4	714.24	1/4	349.48	1/4	49.69	1/4		1/4		1/4	
1/2	2,160.56	1/2	1,795.83	1/2	1,431.92	1/2	1,070.50	1/2	706.64	1/2	341.88	1/2	48.49	1/2		1/2		1/2	
3/4	2,152.96	3/4	1,788.24	3/4	1,424.49	3/4	1,062.93	3/4	699.04	3/4	334.28	3/4	47.29	3/4		3/4		3/4	
5	2,145.36	5	1,780.64	5	1,417.05	5	1,055.36	5	691.44	5	326.68	5		5		5		5	
1/4	2,137.76	1/4	1,773.04	1/4	1,409.61	1/4	1,047.79	1/4	683.84	1/4	319.08	1/4		1/4		1/4		1/4	
1/2	2,130.16	1/2	1,765.44	1/2	1,402.18	1/2	1,040.22	1/2	676.24	1/2	311.48	1/2		1/2		1/2		1/2	
3/4	2,122.57	3/4	1,757.84	3/4	1,394.74	3/4	1,032.65	3/4	668.64	3/4	303.88	3/4		3/4		3/4		3/4	
6	2,114.97	6	1,750.24	6	1,387.30	6	1,025.08	6	661.04	6	296.28	6		6		6		6	
1/4	2,107.37	1/4	1,742.65	1/4	1,379.87	1/4	1,017.51	1/4	653.45	1/4	288.68	1/4		1/4		1/4		1/4	
1/2	2,099.77	1/2	1,735.05	1/2	1,372.43	1/2	1,009.94	1/2	645.85	1/2	281.08	1/2		1/2		1/2		1/2	
3/4	2,092.17	3/4	1,727.45	3/4	1,364.99	3/4	1,002.37	3/4	638.25	3/4	273.49	3/4		3/4		3/4		3/4	
7	2,084.58	7	1,719.85	7	1,357.56	7	994.80	7	630.65	7	265.89	7		7		7		7	
1/4	2,076.98	1/4	1,712.25	1/4	1,350.12	1/4	987.23	1/4	623.05	1/4	258.29	1/4		1/4		1/4		1/4	
1/2	2,069.38	1/2	1,704.65	1/2	1,342.68	1/2	979.66	1/2	615.45	1/2	250.69	1/2		1/2		1/2		1/2	
3/4	2,061.78	3/4	1,697.06	3/4	1,335.25	3/4	972.09	3/4	607.85	3/4	243.09	3/4		3/4		3/4		3/4	
8	2,054.18	8	1,689.46	8	1,327.81	8	964.52	8	600.25	8	235.49	8		8		8		8	
1/4	2,046.58	1/4	1,681.86	1/4	1,320.37	1/4	956.95	1/4	592.65	1/4	227.89	1/4		1/4		1/4		1/4	
1/2	2,038.99	1/2	1,674.26	1/2	1,312.94	1/2	949.38	1/2	585.05	1/2	220.29	1/2		1/2		1/2		1/2	
3/4	2,031.39	3/4	1,666.66	3/4	1,305.50	3/4	941.81	3/4	577.45	3/4	212.69	3/4		3/4		3/4		3/4	
9	2,023.79	9	1,659.06	9	1,297.98	9	934.24	9	569.85	9	205.09	9		9		9		9	
1/4	2,016.19	1/4	1,651.47	1/4	1,290.46	1/4	926.67	1/4	562.26	1/4	197.49	1/4		1/4		1/4		1/4	
1/2	2,008.59	1/2	1,643.87	1/2	1,282.95	1/2	919.10	1/2	554.66	1/2	189.89	1/2		1/2		1/2		1/2	
3/4	2,001.00	3/4	1,636.27	3/4	1,275.43	3/4	911.53	3/4	547.06	3/4	182.30	3/4		3/4		3/4		3/4	
10	1,993.40	10	1,628.67	10	1,267.83	10	903.96	10	539.46	10	174.70	10		10		10		10	
1/4	1,985.80	1/4	1,621.07	1/4	1,260.23	1/4	896.39	1/4	531.86	1/4	167.10	1/4		1/4		1/4		1/4	
1/2	1,978.20	1/2	1,613.47	1/2	1,252.63	1/2	888.82	1/2	524.26	1/2	159.50	1/2		1/2		1/2		1/2	
3/4	1,970.60	3/4	1,605.87	3/4	1,245.03	3/4	881.25	3/4	516.66	3/4	151.90	3/4		3/4		3/4		3/4	
11	1,963.00	11	1,598.28	11	1,237.43	11	873.68	11	509.06	11	144.62	11		11		11		11	
1/4	1,955.40	1/4	1,590.68	1/4	1,229.83	1/4	866.11	1/4	501.46	1/4	137.33	1/4		1/4		1/4		1/4	
1/2	1,947.80	1/2	1,583.08	1/2	1,222.23	1/2	858.54	1/2	493.86	1/2	130.05	1/2		1/2		1/2		1/2	
3/4	1,940.20	3/4	1,575.48	3/4	1,214.63	3/4	850.96	3/4	486.26	3/4	122.77	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/27/2009 CL - SW  
 CALCULATED: 08/28/2009 CL  
 PRINTED: 08/28/2009 CL

CANCELS AND SUPERCEDES  
 ALL PRIOR TO 08/2009

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