



BARGE "KIRBY 28177"

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	00-3/8	- 00-3/8	00-5/8	- 00-5/8	01-0/8	- 01-0/8	01-3/8	- 01-3/8	01-5/8	- 01-5/8	02-0/8	- 02-0/8
1 STBD	00-3/8	- 00-3/8	00-5/8	- 00-5/8	01-0/8	- 01-0/8	01-3/8	- 01-3/8	01-5/8	- 01-5/8	02-0/8	- 02-0/8
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	00-3/8	- 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	02-1/2	- 02-1/2
3 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	02-1/2	- 02-1/2

(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 - 00-5/8"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 3'-11 3/8"

LENGTH BETWEEN DRAFT MARKS: 243'-06"

November 11, 2011

PRECISION MEASUREMENT
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 P.O. Box 2092
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<http://www.pmacorp.net>



BARGE "KIRBY 28177"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	4,952.84	0	4,618.79	0	4,279.28	0	3,923.27	0	3,551.39	0	3,174.91	0	2,796.91
1/4		1/4		1/4		1/4	4,947.46	1/4	4,611.90	1/4	4,272.04	1/4	3,915.69	1/4	3,543.55	1/4	3,167.03	1/4	2,789.03
1/2		1/2		1/2		1/2	4,940.78	1/2	4,604.98	1/2	4,264.77	1/2	3,908.08	1/2	3,535.71	1/2	3,159.16	1/2	2,781.16
3/4		3/4		3/4		3/4	4,934.11	3/4	4,598.06	3/4	4,257.51	3/4	3,900.46	3/4	3,527.87	3/4	3,151.28	3/4	2,773.28
1		1		1		1	4,927.43	1	4,591.14	1	4,250.24	1	3,892.85	1	3,520.03	1	3,143.41	1	2,765.41
1/4		1/4		1/4		1/4	4,920.75	1/4	4,584.22	1/4	4,242.98	1/4	3,885.24	1/4	3,512.19	1/4	3,135.53	1/4	2,757.53
1/2		1/2		1/2		1/2	4,913.14	1/2	4,577.27	1/2	4,235.68	1/2	3,877.60	1/2	3,504.35	1/2	3,127.66	1/2	2,749.66
3/4		3/4		3/4		3/4	4,905.53	3/4	4,570.31	3/4	4,228.39	3/4	3,869.96	3/4	3,496.51	3/4	3,119.78	3/4	2,741.78
2		2		2		2	4,897.92	2	4,563.36	2	4,221.10	2	3,862.32	2	3,488.67	2	3,111.91	2	2,733.91
1/4		1/4		1/4		1/4	4,890.31	1/4	4,556.41	1/4	4,213.80	1/4	3,854.68	1/4	3,480.83	1/4	3,104.03	1/4	2,726.03
1/2		1/2		1/2		1/2	4,882.47	1/2	4,549.44	1/2	4,206.48	1/2	3,847.02	1/2	3,472.99	1/2	3,096.16	1/2	2,718.16
3/4		3/4		3/4		3/4	4,874.63	3/4	4,542.46	3/4	4,199.16	3/4	3,839.35	3/4	3,465.15	3/4	3,088.28	3/4	2,710.28
3		3		3		3	4,866.79	3	4,535.48	3	4,191.84	3	3,831.69	3	3,457.31	3	3,080.41	3	2,702.41
1/4		1/4		1/4		1/4	4,858.95	1/4	4,528.50	1/4	4,184.51	1/4	3,824.02	1/4	3,449.47	1/4	3,072.53	1/4	2,694.53
1/2		1/2		1/2		1/2	4,851.54	1/2	4,521.49	1/2	4,177.16	1/2	3,816.33	1/2	3,441.63	1/2	3,064.66	1/2	2,686.66
3/4		3/4		3/4		3/4	4,844.14	3/4	4,514.49	3/4	4,169.81	3/4	3,808.63	3/4	3,433.79	3/4	3,056.78	3/4	2,678.78
4		4		4		4	4,836.73	4	4,507.48	4	4,162.46	4	3,800.93	4	3,425.95	4	3,048.91	4	2,670.91
1/4		1/4		1/4		1/4	4,829.32	1/4	4,500.47	1/4	4,155.11	1/4	3,793.24	1/4	3,418.11	1/4	3,041.03	1/4	2,663.03
1/2		1/2		1/2		1/2	4,822.63	1/2	4,493.43	1/2	4,147.73	1/2	3,785.52	1/2	3,410.27	1/2	3,033.16	1/2	2,655.16
3/4		3/4		3/4		3/4	4,815.94	3/4	4,486.40	3/4	4,140.35	3/4	3,777.79	3/4	3,402.43	3/4	3,025.28	3/4	2,647.28
5		5		5		5	4,809.24	5	4,479.36	5	4,132.97	5	3,770.07	5	3,394.59	5	3,017.41	5	2,639.41
1/4		1/4		1/4		1/4	4,802.55	1/4	4,472.32	1/4	4,125.59	1/4	3,762.34	1/4	3,386.75	1/4	3,009.53	1/4	2,631.53
1/2		1/2		1/2		1/2	4,795.83	1/2	4,465.26	1/2	4,118.18	1/2	3,754.59	1/2	3,378.91	1/2	3,001.66	1/2	2,623.66
3/4		3/4		3/4		3/4	4,789.11	3/4	4,458.19	3/4	4,110.77	3/4	3,746.84	3/4	3,371.07	3/4	2,993.78	3/4	2,615.78
6		6		6		6	4,782.39	6	4,451.13	6	4,103.36	6	3,739.08	6	3,363.23	6	2,985.91	6	2,607.91
1/4		1/4		1/4		1/4	4,775.66	1/4	4,444.06	1/4	4,095.95	1/4	3,731.33	1/4	3,355.39	1/4	2,978.03	1/4	2,600.03
1/2		1/2		1/2		1/2	4,768.91	1/2	4,436.97	1/2	4,088.51	1/2	3,723.55	1/2	3,347.55	1/2	2,970.16	1/2	2,592.16
3/4		3/4		3/4		3/4	4,762.16	3/4	4,429.87	3/4	4,081.07	3/4	3,715.77	3/4	3,339.71	3/4	2,962.28	3/4	2,584.28
7		7		7		7	4,755.41	7	4,422.78	7	4,073.64	7	3,707.99	7	3,331.87	7	2,954.41	7	2,576.41
1/4		1/4		1/4		1/4	4,748.66	1/4	4,415.68	1/4	4,066.20	1/4	3,700.21	1/4	3,324.03	1/4	2,946.53	1/4	2,568.53
1/2		1/2		1/2		1/2	4,741.88	1/2	4,408.56	1/2	4,058.73	1/2	3,692.39	1/2	3,316.19	1/2	2,938.66	1/2	2,560.66
3/4		3/4		3/4		3/4	4,735.10	3/4	4,401.43	3/4	4,051.26	3/4	3,684.58	3/4	3,308.35	3/4	2,930.78	3/4	2,552.78
8		8		8		8	4,728.32	8	4,394.31	8	4,043.80	8	3,676.77	8	3,300.51	8	2,922.91	8	2,544.91
1/4		1/4		1/4		1/4	4,721.54	1/4	4,387.19	1/4	4,036.33	1/4	3,668.96	1/4	3,292.67	1/4	2,915.03	1/4	2,537.03
1/2		1/2		1/2		1/2	4,714.73	1/2	4,380.03	1/2	4,028.83	1/2	3,661.13	1/2	3,284.83	1/2	2,907.16	1/2	2,529.16
3/4		3/4		3/4		3/4	4,707.92	3/4	4,372.88	3/4	4,021.34	3/4	3,653.30	3/4	3,276.99	3/4	2,899.28	3/4	2,521.28
9		9		9		9	4,701.11	9	4,365.73	9	4,013.84	9	3,645.46	9	3,269.15	9	2,891.41	9	2,513.41
1/4		1/4		1/4		1/4	4,694.29	1/4	4,358.58	1/4	4,006.34	1/4	3,637.63	1/4	3,261.31	1/4	2,883.53	1/4	2,505.53
1/2		1/2		1/2		1/2	4,687.46	1/2	4,351.39	1/2	3,998.82	1/2	3,629.79	1/2	3,253.47	1/2	2,875.66	1/2	2,497.66
3/4		3/4		3/4		3/4	4,680.62	3/4	4,344.21	3/4	3,991.29	3/4	3,621.95	3/4	3,245.63	3/4	2,867.78	3/4	2,489.78
10		10		10		10	4,673.78	10	4,337.03	10	3,983.77	10	3,614.11	10	3,237.79	10	2,859.91	10	2,481.91
1/4		1/4		1/4		1/4	4,666.94	1/4	4,329.85	1/4	3,976.24	1/4	3,606.27	1/4	3,229.95	1/4	2,852.03	1/4	2,474.03
1/2		1/2		1/2		1/2	4,660.07	1/2	4,322.63	1/2	3,968.69	1/2	3,598.43	1/2	3,222.09	1/2	2,844.16	1/2	2,466.16
3/4		3/4		3/4		3/4	4,653.20	3/4	4,315.42	3/4	3,961.13	3/4	3,590.59	3/4	3,214.24	3/4	2,836.28	3/4	2,458.28
11		11		11		11	4,646.34	11	4,308.21	11	3,953.58	11	3,582.75	11	3,206.39	11	2,828.41	11	2,450.41
1/4		1/4		1/4		1/4	4,639.47	1/4	4,301.00	1/4	3,946.02	1/4	3,574.91	1/4	3,198.53	1/4	2,820.53	1/4	2,442.53
1/2		1/2		1/2		1/2	4,632.57	1/2	4,293.76	1/2	3,938.44	1/2	3,567.07	1/2	3,190.66	1/2	2,812.66	1/2	2,434.66
3/4		3/4		3/4		3/4	4,958.22	3/4	4,625.68	3/4	4,286.52	3/4	3,930.86	3/4	3,559.23	3/4	3,182.78	3/4	2,426.78

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'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
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BARGE "KIRBY 28177"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,418.91	0	2,040.91	0	1,662.91	0	1,286.30	0	909.07	0	531.11	0	182.81	0		0		0	
1/4	2,411.03	1/4	2,033.03	1/4	1,655.03	1/4	1,278.47	1/4	901.20	1/4	523.25	1/4	176.18	1/4		1/4		1/4	
1/2	2,403.16	1/2	2,025.16	1/2	1,647.16	1/2	1,270.65	1/2	893.32	1/2	515.43	1/2	169.66	1/2		1/2		1/2	
3/4	2,395.28	3/4	2,017.28	3/4	1,639.28	3/4	1,262.82	3/4	885.45	3/4	507.62	3/4	163.15	3/4		3/4		3/4	
1	2,387.41	1	2,009.41	1	1,631.41	1	1,255.00	1	877.58	1	499.80	1	156.63	1		1		1	
1/4	2,379.53	1/4	2,001.53	1/4	1,623.53	1/4	1,247.17	1/4	869.70	1/4	491.98	1/4	150.11	1/4		1/4		1/4	
1/2	2,371.66	1/2	1,993.66	1/2	1,615.66	1/2	1,239.35	1/2	861.83	1/2	484.26	1/2	143.71	1/2		1/2		1/2	
3/4	2,363.78	3/4	1,985.78	3/4	1,607.78	3/4	1,231.52	3/4	853.95	3/4	476.53	3/4	137.30	3/4		3/4		3/4	
2	2,355.91	2	1,977.91	2	1,599.91	2	1,223.70	2	846.08	2	468.81	2	130.90	2		2		2	
1/4	2,348.03	1/4	1,970.03	1/4	1,592.03	1/4	1,215.87	1/4	838.20	1/4	461.09	1/4	124.50	1/4		1/4		1/4	
1/2	2,340.16	1/2	1,962.16	1/2	1,584.16	1/2	1,208.04	1/2	830.33	1/2	453.47	1/2	118.22	1/2		1/2		1/2	
3/4	2,332.28	3/4	1,954.28	3/4	1,576.28	3/4	1,200.22	3/4	822.45	3/4	445.86	3/4	111.94	3/4		3/4		3/4	
3	2,324.41	3	1,946.41	3	1,568.41	3	1,192.39	3	814.58	3	438.24	3	105.65	3		3		3	
1/4	2,316.53	1/4	1,938.53	1/4	1,560.53	1/4	1,184.57	1/4	806.70	1/4	430.63	1/4	99.37	1/4		1/4		1/4	
1/2	2,308.66	1/2	1,930.66	1/2	1,552.67	1/2	1,176.72	1/2	798.83	1/2	423.12	1/2	93.22	1/2		1/2		1/2	
3/4	2,300.78	3/4	1,922.78	3/4	1,544.81	3/4	1,168.88	3/4	790.95	3/4	415.62	3/4	87.07	3/4		3/4		3/4	
4	2,292.91	4	1,914.91	4	1,536.94	4	1,161.04	4	783.08	4	408.11	4	80.91	4		4		4	
1/4	2,285.03	1/4	1,907.03	1/4	1,529.08	1/4	1,153.19	1/4	775.20	1/4	400.60	1/4	74.76	1/4		1/4		1/4	
1/2	2,277.16	1/2	1,899.16	1/2	1,521.23	1/2	1,145.32	1/2	767.33	1/2	393.21	1/2	68.75	1/2		1/2		1/2	
3/4	2,269.28	3/4	1,891.28	3/4	1,513.39	3/4	1,137.44	3/4	759.45	3/4	385.81	3/4	62.74	3/4		3/4		3/4	
5	2,261.41	5	1,883.41	5	1,505.54	5	1,129.57	5	751.58	5	378.42	5	56.73	5		5		5	
1/4	2,253.53	1/4	1,875.53	1/4	1,497.70	1/4	1,121.69	1/4	743.70	1/4	371.02	1/4	50.72	1/4		1/4		1/4	
1/2	2,245.66	1/2	1,867.66	1/2	1,489.86	1/2	1,113.82	1/2	735.83	1/2	363.73	1/2	45.30	1/2		1/2		1/2	
3/4	2,237.78	3/4	1,859.78	3/4	1,482.02	3/4	1,105.94	3/4	727.95	3/4	356.45	3/4	39.88	3/4		3/4		3/4	
6	2,229.91	6	1,851.91	6	1,474.17	6	1,098.07	6	720.08	6	349.16	6	34.47	6		6		6	
1/4	2,222.03	1/4	1,844.03	1/4	1,466.33	1/4	1,090.19	1/4	712.20	1/4	341.87	1/4	29.05	1/4		1/4		1/4	
1/2	2,214.16	1/2	1,836.16	1/2	1,458.50	1/2	1,082.32	1/2	704.33	1/2	334.70	1/2	25.08	1/2		1/2		1/2	
3/4	2,206.28	3/4	1,828.28	3/4	1,450.67	3/4	1,074.45	3/4	696.45	3/4	327.52	3/4	21.12	3/4		3/4		3/4	
7	2,198.41	7	1,820.41	7	1,442.84	7	1,066.57	7	688.58	7	320.34	7	17.15	7		7		7	
1/4	2,190.53	1/4	1,812.53	1/4	1,435.00	1/4	1,058.70	1/4	680.71	1/4	313.16	1/4	13.19	1/4		1/4		1/4	
1/2	2,182.66	1/2	1,804.66	1/2	1,427.17	1/2	1,050.82	1/2	672.83	1/2	306.10	1/2		1/2		1/2		1/2	
3/4	2,174.78	3/4	1,796.78	3/4	1,419.34	3/4	1,042.95	3/4	664.96	3/4	299.03	3/4		3/4		3/4		3/4	
8	2,166.91	8	1,788.91	8	1,411.51	8	1,035.07	8	657.08	8	291.96	8		8		8		8	
1/4	2,159.03	1/4	1,781.03	1/4	1,403.68	1/4	1,027.20	1/4	649.21	1/4	284.89	1/4		1/4		1/4		1/4	
1/2	2,151.16	1/2	1,773.16	1/2	1,395.86	1/2	1,019.32	1/2	641.33	1/2	277.93	1/2		1/2		1/2		1/2	
3/4	2,143.28	3/4	1,765.28	3/4	1,388.03	3/4	1,011.45	3/4	633.46	3/4	270.98	3/4		3/4		3/4		3/4	
9	2,135.41	9	1,757.41	9	1,380.21	9	1,003.57	9	625.58	9	264.02	9		9		9		9	
1/4	2,127.53	1/4	1,749.53	1/4	1,372.38	1/4	995.70	1/4	617.71	1/4	257.06	1/4		1/4		1/4		1/4	
1/2	2,119.66	1/2	1,741.66	1/2	1,364.56	1/2	987.82	1/2	609.83	1/2	250.21	1/2		1/2		1/2		1/2	
3/4	2,111.78	3/4	1,733.78	3/4	1,356.73	3/4	979.95	3/4	601.96	3/4	243.36	3/4		3/4		3/4		3/4	
10	2,103.91	10	1,725.91	10	1,348.90	10	972.07	10	594.08	10	236.51	10		10		10		10	
1/4	2,096.03	1/4	1,718.03	1/4	1,341.08	1/4	964.20	1/4	586.21	1/4	229.66	1/4		1/4		1/4		1/4	
1/2	2,088.16	1/2	1,710.16	1/2	1,333.25	1/2	956.32	1/2	578.33	1/2	222.92	1/2		1/2		1/2		1/2	
3/4	2,080.28	3/4	1,702.28	3/4	1,325.43	3/4	948.45	3/4	570.46	3/4	216.18	3/4		3/4		3/4		3/4	
11	2,072.41	11	1,694.41	11	1,317.60	11	940.57	11	562.58	11	209.44	11		11		11		11	
1/4	2,064.53	1/4	1,686.53	1/4	1,309.78	1/4	932.70	1/4	554.71	1/4	202.70	1/4		1/4		1/4		1/4	
1/2	2,056.66	1/2	1,678.66	1/2	1,301.95	1/2	924.82	1/2	546.84	1/2	196.07	1/2		1/2		1/2		1/2	
3/4	2,048.78	3/4	1,670.78	3/4	1,294.13	3/4	916.95	3/4	538.98	3/4	189.44	3/4		3/4		3/4		3/4	

STRAPPED: 11/10/2011 CL - SW
CALCULATED: 11/11/2011 CL
PRINTED: 11/11/2011 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2011

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "KIRBY 28177"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 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	4,959.43	0	4,626.93	0	4,287.81	0	3,932.18	0	3,560.60	0	3,184.20	0	2,806.24
1/4		1/4		1/4		1/4	4,954.05	1/4	4,620.04	1/4	4,280.57	1/4	3,924.60	1/4	3,552.76	1/4	3,176.32	1/4	2,798.37
1/2		1/2		1/2		1/2	4,948.67	1/2	4,613.15	1/2	4,273.33	1/2	3,917.02	1/2	3,544.92	1/2	3,168.45	1/2	2,790.49
3/4		3/4		3/4		3/4	4,942.00	3/4	4,606.23	3/4	4,266.06	3/4	3,909.41	3/4	3,537.08	3/4	3,160.57	3/4	2,782.62
1		1		1		1	4,935.32	1	4,599.31	1	4,258.80	1	3,901.79	1	3,529.24	1	3,152.70	1	2,774.74
1/4		1/4		1/4		1/4	4,928.64	1/4	4,592.39	1/4	4,251.53	1/4	3,894.18	1/4	3,521.41	1/4	3,144.83	1/4	2,766.87
1/2		1/2		1/2		1/2	4,921.97	1/2	4,585.47	1/2	4,244.27	1/2	3,886.57	1/2	3,513.57	1/2	3,136.95	1/2	2,759.00
3/4		3/4		3/4		3/4	4,914.36	3/4	4,578.52	3/4	4,236.98	3/4	3,878.93	3/4	3,505.73	3/4	3,129.08	3/4	2,751.12
2		2		2		2	4,906.75	2	4,571.57	2	4,229.68	2	3,871.29	2	3,497.89	2	3,121.20	2	2,743.25
1/4		1/4		1/4		1/4	4,899.14	1/4	4,564.62	1/4	4,222.39	1/4	3,863.66	1/4	3,490.05	1/4	3,113.33	1/4	2,735.37
1/2		1/2		1/2		1/2	4,891.53	1/2	4,557.67	1/2	4,215.10	1/2	3,856.02	1/2	3,482.21	1/2	3,105.46	1/2	2,727.50
3/4		3/4		3/4		3/4	4,883.69	3/4	4,550.69	3/4	4,207.78	3/4	3,848.36	3/4	3,474.37	3/4	3,097.58	3/4	2,719.63
3		3		3		3	4,875.85	3	4,543.72	3	4,200.46	3	3,840.69	3	3,466.53	3	3,089.71	3	2,711.75
1/4		1/4		1/4		1/4	4,868.01	1/4	4,536.74	1/4	4,193.13	1/4	3,833.03	1/4	3,458.69	1/4	3,081.83	1/4	2,703.88
1/2		1/2		1/2		1/2	4,860.17	1/2	4,529.76	1/2	4,185.81	1/2	3,825.36	1/2	3,450.85	1/2	3,073.96	1/2	2,696.00
3/4		3/4		3/4		3/4	4,852.77	3/4	4,522.75	3/4	4,178.46	3/4	3,817.67	3/4	3,443.01	3/4	3,066.09	3/4	2,688.13
4		4		4		4	4,845.36	4	4,515.75	4	4,171.11	4	3,809.97	4	3,435.17	4	3,058.21	4	2,680.25
1/4		1/4		1/4		1/4	4,837.96	1/4	4,508.74	1/4	4,163.76	1/4	3,802.28	1/4	3,427.33	1/4	3,050.34	1/4	2,672.38
1/2		1/2		1/2		1/2	4,830.55	1/2	4,501.73	1/2	4,156.41	1/2	3,794.58	1/2	3,419.50	1/2	3,042.46	1/2	2,664.51
3/4		3/4		3/4		3/4	4,823.86	3/4	4,494.70	3/4	4,149.03	3/4	3,786.86	3/4	3,411.66	3/4	3,034.59	3/4	2,656.63
5		5		5		5	4,817.16	5	4,487.66	5	4,141.65	5	3,779.14	5	3,403.82	5	3,026.72	5	2,648.76
1/4		1/4		1/4		1/4	4,810.47	1/4	4,480.63	1/4	4,134.27	1/4	3,771.41	1/4	3,395.98	1/4	3,018.84	1/4	2,640.88
1/2		1/2		1/2		1/2	4,803.78	1/2	4,473.59	1/2	4,126.89	1/2	3,763.69	1/2	3,388.14	1/2	3,010.97	1/2	2,633.01
3/4		3/4		3/4		3/4	4,797.06	3/4	4,466.52	3/4	4,119.48	3/4	3,755.94	3/4	3,380.30	3/4	3,003.09	3/4	2,625.14
6		6		6		6	4,790.34	6	4,459.46	6	4,112.08	6	3,748.19	6	3,372.46	6	2,995.22	6	2,617.26
1/4		1/4		1/4		1/4	4,783.62	1/4	4,452.39	1/4	4,104.67	1/4	3,740.43	1/4	3,364.62	1/4	2,987.34	1/4	2,609.39
1/2		1/2		1/2		1/2	4,776.89	1/2	4,445.33	1/2	4,097.26	1/2	3,732.68	1/2	3,356.78	1/2	2,979.47	1/2	2,601.51
3/4		3/4		3/4		3/4	4,770.14	3/4	4,438.24	3/4	4,089.82	3/4	3,724.90	3/4	3,348.94	3/4	2,971.60	3/4	2,593.64
7		7		7		7	4,763.39	7	4,431.14	7	4,082.38	7	3,717.12	7	3,341.10	7	2,963.72	7	2,585.77
1/4		1/4		1/4		1/4	4,756.64	1/4	4,424.05	1/4	4,074.95	1/4	3,709.34	1/4	3,333.26	1/4	2,955.85	1/4	2,577.89
1/2		1/2		1/2		1/2	4,749.89	1/2	4,416.96	1/2	4,067.51	1/2	3,701.56	1/2	3,325.43	1/2	2,947.97	1/2	2,570.02
3/4		3/4		3/4		3/4	4,743.11	3/4	4,409.83	3/4	4,060.04	3/4	3,693.75	3/4	3,317.59	3/4	2,940.10	3/4	2,562.14
8		8		8		8	4,736.33	8	4,402.71	8	4,052.58	8	3,685.94	8	3,309.75	8	2,932.23	8	2,554.27
1/4		1/4		1/4		1/4	4,729.55	1/4	4,395.58	1/4	4,045.11	1/4	3,678.13	1/4	3,301.91	1/4	2,924.35	1/4	2,546.39
1/2		1/2		1/2		1/2	4,722.77	1/2	4,388.46	1/2	4,037.65	1/2	3,670.32	1/2	3,294.07	1/2	2,916.48	1/2	2,538.52
3/4		3/4		3/4		3/4	4,715.96	3/4	4,381.31	3/4	4,030.15	3/4	3,662.49	3/4	3,286.23	3/4	2,908.60	3/4	2,530.65
9		9		9		9	4,709.15	9	4,374.16	9	4,022.65	9	3,654.66	9	3,278.39	9	2,900.73	9	2,522.77
1/4		1/4		1/4		1/4	4,702.34	1/4	4,367.01	1/4	4,015.16	1/4	3,646.82	1/4	3,270.55	1/4	2,892.86	1/4	2,514.90
1/2		1/2		1/2		1/2	4,695.54	1/2	4,359.85	1/2	4,007.66	1/2	3,638.99	1/2	3,262.71	1/2	2,884.98	1/2	2,507.02
3/4		3/4		3/4		3/4	4,688.70	3/4	4,352.67	3/4	4,000.14	3/4	3,631.15	3/4	3,254.87	3/4	2,877.11	3/4	2,499.15
10		10		10		10	4,681.86	10	4,345.49	10	3,992.61	10	3,623.31	10	3,247.03	10	2,869.23	10	2,491.28
1/4		1/4		1/4		1/4	4,675.02	1/4	4,338.31	1/4	3,985.09	1/4	3,615.48	1/4	3,239.19	1/4	2,861.36	1/4	2,483.40
1/2		1/2		1/2		1/2	4,668.19	1/2	4,331.13	1/2	3,977.57	1/2	3,607.64	1/2	3,231.35	1/2	2,853.48	1/2	2,475.53
3/4		3/4		3/4		3/4	4,661.32	3/4	4,323.92	3/4	3,970.01	3/4	3,599.80	3/4	3,223.50	3/4	2,845.61	3/4	2,467.65
11		11		11		11	4,654.45	11	4,316.71	11	3,962.46	11	3,591.96	11	3,215.65	11	2,837.74	11	2,459.78
1/4		1/4		1/4		1/4	4,647.58	1/4	4,309.50	1/4	3,954.90	1/4	3,584.12	1/4	3,207.80	1/4	2,829.86	1/4	2,451.91
1/2		1/2		1/2		1/2	4,640.71	1/2	4,302.29	1/2	3,947.35	1/2	3,576.28	1/2	3,199.95	1/2	2,821.99	1/2	2,444.03
3/4		3/4		3/4		3/4	4,633.82	3/4	4,295.05	3/4	3,939.77	3/4	3,568.44	3/4	3,192.07	3/4	2,814.11	3/4	2,436.16

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'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 28177"

1 STBD
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 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	2,428.28	0	2,050.33	0	1,672.37	0	1,294.41	0	916.74	0	538.92	0	189.42	0		0		0	
1/4	2,420.41	1/4	2,042.45	1/4	1,664.50	1/4	1,286.54	1/4	908.88	1/4	531.05	1/4	182.79	1/4		1/4		1/4	
1/2	2,412.54	1/2	2,034.58	1/2	1,656.62	1/2	1,278.66	1/2	901.02	1/2	523.19	1/2	176.16	1/2		1/2		1/2	
3/4	2,404.66	3/4	2,026.70	3/4	1,648.75	3/4	1,270.79	3/4	893.16	3/4	515.37	3/4	169.65	3/4		3/4		3/4	
1	2,396.79	1	2,018.83	1	1,640.87	1	1,262.92	1	885.29	1	507.56	1	163.13	1		1		1	
1/4	2,388.91	1/4	2,010.96	1/4	1,633.00	1/4	1,255.04	1/4	877.43	1/4	499.74	1/4	156.61	1/4		1/4		1/4	
1/2	2,381.04	1/2	2,003.08	1/2	1,625.13	1/2	1,247.17	1/2	869.57	1/2	491.93	1/2	150.09	1/2		1/2		1/2	
3/4	2,373.16	3/4	1,995.21	3/4	1,617.25	3/4	1,239.29	3/4	861.70	3/4	484.20	3/4	143.69	3/4		3/4		3/4	
2	2,365.29	2	1,987.33	2	1,609.38	2	1,231.42	2	853.84	2	476.48	2	137.29	2		2		2	
1/4	2,357.42	1/4	1,979.46	1/4	1,601.50	1/4	1,223.55	1/4	845.97	1/4	468.76	1/4	130.89	1/4		1/4		1/4	
1/2	2,349.54	1/2	1,971.59	1/2	1,593.63	1/2	1,215.67	1/2	838.11	1/2	461.03	1/2	124.48	1/2		1/2		1/2	
3/4	2,341.67	3/4	1,963.71	3/4	1,585.75	3/4	1,207.80	3/4	830.23	3/4	453.42	3/4	118.20	3/4		3/4		3/4	
3	2,333.79	3	1,955.84	3	1,577.88	3	1,199.92	3	822.36	3	445.81	3	111.92	3		3		3	
1/4	2,325.92	1/4	1,947.96	1/4	1,570.01	1/4	1,192.05	1/4	814.48	1/4	438.19	1/4	105.64	1/4		1/4		1/4	
1/2	2,318.05	1/2	1,940.09	1/2	1,562.13	1/2	1,184.18	1/2	806.61	1/2	430.58	1/2	99.36	1/2		1/2		1/2	
3/4	2,310.17	3/4	1,932.22	3/4	1,554.26	3/4	1,176.30	3/4	798.74	3/4	423.07	3/4	93.21	3/4		3/4		3/4	
4	2,302.30	4	1,924.34	4	1,546.38	4	1,168.43	4	790.86	4	415.57	4	87.06	4		4		4	
1/4	2,294.42	1/4	1,916.47	1/4	1,538.51	1/4	1,160.55	1/4	782.99	1/4	408.06	1/4	80.91	1/4		1/4		1/4	
1/2	2,286.55	1/2	1,908.59	1/2	1,530.64	1/2	1,152.68	1/2	775.11	1/2	400.56	1/2	74.75	1/2		1/2		1/2	
3/4	2,278.68	3/4	1,900.72	3/4	1,522.76	3/4	1,144.81	3/4	767.24	3/4	393.16	3/4	68.74	3/4		3/4		3/4	
5	2,270.80	5	1,892.84	5	1,514.89	5	1,136.93	5	759.37	5	385.77	5	62.73	5		5		5	
1/4	2,262.93	1/4	1,884.97	1/4	1,507.01	1/4	1,129.06	1/4	751.49	1/4	378.37	1/4	56.72	1/4		1/4		1/4	
1/2	2,255.05	1/2	1,877.10	1/2	1,499.14	1/2	1,121.18	1/2	743.62	1/2	370.98	1/2	50.71	1/2		1/2		1/2	
3/4	2,247.18	3/4	1,869.22	3/4	1,491.27	3/4	1,113.31	3/4	735.74	3/4	363.69	3/4	45.30	3/4		3/4		3/4	
6	2,239.31	6	1,861.35	6	1,483.39	6	1,105.44	6	727.87	6	356.41	6	39.88	6		6		6	
1/4	2,231.43	1/4	1,853.47	1/4	1,475.52	1/4	1,097.58	1/4	720.00	1/4	349.12	1/4	34.46	1/4		1/4		1/4	
1/2	2,223.56	1/2	1,845.60	1/2	1,467.64	1/2	1,089.71	1/2	712.12	1/2	341.83	1/2	29.04	1/2		1/2		1/2	
3/4	2,215.68	3/4	1,837.73	3/4	1,459.77	3/4	1,081.84	3/4	704.25	3/4	334.66	3/4	25.08	3/4		3/4		3/4	
7	2,207.81	7	1,829.85	7	1,451.90	7	1,073.98	7	696.38	7	327.48	7	21.12	7		7		7	
1/4	2,199.93	1/4	1,821.98	1/4	1,444.02	1/4	1,066.12	1/4	688.50	1/4	320.30	1/4	17.15	1/4		1/4		1/4	
1/2	2,192.06	1/2	1,814.10	1/2	1,436.15	1/2	1,058.26	1/2	680.63	1/2	313.13	1/2	13.19	1/2		1/2		1/2	
3/4	2,184.19	3/4	1,806.23	3/4	1,428.27	3/4	1,050.40	3/4	672.75	3/4	306.06	3/4	13.19	3/4		3/4		3/4	
8	2,176.31	8	1,798.36	8	1,420.40	8	1,042.53	8	664.88	8	298.99	8		8		8		8	
1/4	2,168.44	1/4	1,790.48	1/4	1,412.52	1/4	1,034.67	1/4	657.01	1/4	291.93	1/4		1/4		1/4		1/4	
1/2	2,160.56	1/2	1,782.61	1/2	1,404.65	1/2	1,026.81	1/2	649.13	1/2	284.86	1/2		1/2		1/2		1/2	
3/4	2,152.69	3/4	1,774.73	3/4	1,396.78	3/4	1,018.95	3/4	641.26	3/4	277.90	3/4		3/4		3/4		3/4	
9	2,144.82	9	1,766.86	9	1,388.90	9	1,011.09	9	633.38	9	270.94	9		9		9		9	
1/4	2,136.94	1/4	1,758.98	1/4	1,381.03	1/4	1,003.22	1/4	625.51	1/4	263.99	1/4		1/4		1/4		1/4	
1/2	2,129.07	1/2	1,751.11	1/2	1,373.15	1/2	995.36	1/2	617.64	1/2	257.03	1/2		1/2		1/2		1/2	
3/4	2,121.19	3/4	1,743.24	3/4	1,365.28	3/4	987.50	3/4	609.76	3/4	250.18	3/4		3/4		3/4		3/4	
10	2,113.32	10	1,735.36	10	1,357.41	10	979.64	10	601.89	10	243.33	10		10		10		10	
1/4	2,105.45	1/4	1,727.49	1/4	1,349.53	1/4	971.78	1/4	594.01	1/4	236.48	1/4		1/4		1/4		1/4	
1/2	2,097.57	1/2	1,719.61	1/2	1,341.66	1/2	963.91	1/2	586.14	1/2	229.64	1/2		1/2		1/2		1/2	
3/4	2,089.70	3/4	1,711.74	3/4	1,333.78	3/4	956.05	3/4	578.27	3/4	222.90	3/4		3/4		3/4		3/4	
11	2,081.82	11	1,703.87	11	1,325.91	11	948.19	11	570.39	11	216.16	11		11		11		11	
1/4	2,073.95	1/4	1,695.99	1/4	1,318.04	1/4	940.33	1/4	562.52	1/4	209.42	1/4		1/4		1/4		1/4	
1/2	2,066.07	1/2	1,688.12	1/2	1,310.16	1/2	932.47	1/2	554.64	1/2	202.68	1/2		1/2		1/2		1/2	
3/4	2,058.20	3/4	1,680.24	3/4	1,302.29	3/4	924.60	3/4	546.78	3/4	196.05	3/4		3/4		3/4		3/4	

STRAPPED: 11/10/2011 CL - SW
CALCULATED: 11/11/2011 CL
PRINTED: 11/11/2011 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2011

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 28177"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 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	4,766.13	0	4,449.09	0	4,125.62	0	3,787.03	0	3,433.80	0	3,076.13	0	2,717.05
1/4		1/4		1/4		1/4	4,761.02	1/4	4,442.51	1/4	4,118.72	1/4	3,779.81	1/4	3,426.35	1/4	3,068.65	1/4	2,709.57
1/2		1/2		1/2		1/2	4,755.90	1/2	4,435.93	1/2	4,111.82	1/2	3,772.60	1/2	3,418.90	1/2	3,061.17	1/2	2,702.09
3/4		3/4		3/4		3/4	4,749.56	3/4	4,429.33	3/4	4,104.90	3/4	3,765.36	3/4	3,411.45	3/4	3,053.69	3/4	2,694.61
1		1		1		1	4,743.22	1	4,422.72	1	4,097.98	1	3,758.12	1	3,404.00	1	3,046.21	1	2,687.13
1/4		1/4		1/4		1/4	4,736.88	1/4	4,416.12	1/4	4,091.06	1/4	3,750.88	1/4	3,396.56	1/4	3,038.73	1/4	2,679.65
1/2		1/2		1/2		1/2	4,730.53	1/2	4,409.51	1/2	4,084.14	1/2	3,743.64	1/2	3,389.11	1/2	3,031.25	1/2	2,672.17
3/4		3/4		3/4		3/4	4,723.31	3/4	4,402.88	3/4	4,077.19	3/4	3,736.37	3/4	3,381.66	3/4	3,023.77	3/4	2,664.69
2		2		2		2	4,716.08	2	4,396.24	2	4,070.24	2	3,729.11	2	3,374.21	2	3,016.29	2	2,657.20
1/4		1/4		1/4		1/4	4,708.85	1/4	4,389.61	1/4	4,063.30	1/4	3,721.85	1/4	3,366.76	1/4	3,008.81	1/4	2,649.72
1/2		1/2		1/2		1/2	4,701.62	1/2	4,382.98	1/2	4,056.35	1/2	3,714.58	1/2	3,359.31	1/2	3,001.33	1/2	2,642.24
3/4		3/4		3/4		3/4	4,694.17	3/4	4,376.32	3/4	4,049.37	3/4	3,707.29	3/4	3,351.86	3/4	2,993.84	3/4	2,634.76
3		3		3		3	4,686.72	3	4,369.66	3	4,042.40	3	3,700.01	3	3,344.41	3	2,986.36	3	2,627.28
1/4		1/4		1/4		1/4	4,679.27	1/4	4,363.00	1/4	4,035.43	1/4	3,692.72	1/4	3,336.97	1/4	2,978.88	1/4	2,619.80
1/2		1/2		1/2		1/2	4,671.82	1/2	4,356.34	1/2	4,028.45	1/2	3,685.43	1/2	3,329.52	1/2	2,971.40	1/2	2,612.32
3/4		3/4		3/4		3/4	4,664.77	3/4	4,349.66	3/4	4,021.45	3/4	3,678.11	3/4	3,322.07	3/4	2,963.92	3/4	2,604.84
4		4		4		4	4,657.72	4	4,342.97	4	4,014.45	4	3,670.80	4	3,314.62	4	2,956.44	4	2,597.36
1/4		1/4		1/4		1/4	4,650.67	1/4	4,336.29	1/4	4,007.45	1/4	3,663.48	1/4	3,307.17	1/4	2,948.96	1/4	2,589.88
1/2		1/2		1/2		1/2	4,643.62	1/2	4,329.60	1/2	4,000.45	1/2	3,656.16	1/2	3,299.72	1/2	2,941.48	1/2	2,582.40
3/4		3/4		3/4		3/4	4,637.22	3/4	4,322.89	3/4	3,993.42	3/4	3,648.82	3/4	3,292.27	3/4	2,934.00	3/4	2,574.91
5		5		5		5	4,630.82	5	4,316.18	5	3,986.40	5	3,641.48	5	3,284.82	5	2,926.52	5	2,567.43
1/4		1/4		1/4		1/4	4,624.43	1/4	4,309.47	1/4	3,979.37	1/4	3,634.14	1/4	3,277.38	1/4	2,919.04	1/4	2,559.95
1/2		1/2		1/2		1/2	4,618.03	1/2	4,302.75	1/2	3,972.34	1/2	3,626.80	1/2	3,269.93	1/2	2,911.56	1/2	2,552.47
3/4		3/4		3/4		3/4	4,611.61	3/4	4,296.01	3/4	3,965.29	3/4	3,619.43	3/4	3,262.48	3/4	2,904.07	3/4	2,544.99
6		6		6		6	4,605.18	6	4,289.28	6	3,958.23	6	3,612.06	6	3,255.03	6	2,896.59	6	2,537.51
1/4		1/4		1/4		1/4	4,598.76	1/4	4,282.54	1/4	3,951.18	1/4	3,604.69	1/4	3,247.58	1/4	2,889.11	1/4	2,530.03
1/2		1/2		1/2		1/2	4,592.34	1/2	4,275.80	1/2	3,944.13	1/2	3,597.32	1/2	3,240.13	1/2	2,881.63	1/2	2,522.55
3/4		3/4		3/4		3/4	4,585.88	3/4	4,269.03	3/4	3,937.05	3/4	3,589.92	3/4	3,232.68	3/4	2,874.15	3/4	2,515.07
7		7		7		7	4,579.43	7	4,262.27	7	3,929.97	7	3,582.53	7	3,225.23	7	2,866.67	7	2,507.59
1/4		1/4		1/4		1/4	4,572.98	1/4	4,255.50	1/4	3,922.89	1/4	3,575.13	1/4	3,217.78	1/4	2,859.19	1/4	2,500.11
1/2		1/2		1/2		1/2	4,566.53	1/2	4,248.74	1/2	3,915.81	1/2	3,567.74	1/2	3,210.34	1/2	2,851.71	1/2	2,492.62
3/4		3/4		3/4		3/4	4,560.05	3/4	4,241.95	3/4	3,908.70	3/4	3,560.32	3/4	3,202.89	3/4	2,844.23	3/4	2,485.14
8		8		8		8	4,553.58	8	4,235.15	8	3,901.59	8	3,552.90	8	3,195.44	8	2,836.75	8	2,477.66
1/4		1/4		1/4		1/4	4,547.10	1/4	4,228.36	1/4	3,894.49	1/4	3,545.47	1/4	3,187.99	1/4	2,829.27	1/4	2,470.18
1/2		1/2		1/2		1/2	4,540.62	1/2	4,221.57	1/2	3,887.38	1/2	3,538.05	1/2	3,180.54	1/2	2,821.78	1/2	2,462.70
3/4		3/4		3/4		3/4	4,534.12	3/4	4,214.75	3/4	3,880.25	3/4	3,530.61	3/4	3,173.09	3/4	2,814.30	3/4	2,455.22
9		9		9		9	4,527.61	9	4,207.93	9	3,873.11	9	3,523.17	9	3,165.64	9	2,806.82	9	2,447.74
1/4		1/4		1/4		1/4	4,521.11	1/4	4,201.11	1/4	3,865.98	1/4	3,515.73	1/4	3,158.19	1/4	2,799.34	1/4	2,440.26
1/2		1/2		1/2		1/2	4,514.61	1/2	4,194.29	1/2	3,858.84	1/2	3,508.29	1/2	3,150.75	1/2	2,791.86	1/2	2,432.78
3/4		3/4		3/4		3/4	4,508.08	3/4	4,187.45	3/4	3,851.68	3/4	3,500.84	3/4	3,143.30	3/4	2,784.38	3/4	2,425.30
10		10		10		10	4,501.55	10	4,180.60	10	3,844.52	10	3,493.39	10	3,135.85	10	2,776.90	10	2,417.82
1/4		1/4		1/4		1/4	4,495.01	1/4	4,173.76	1/4	3,837.36	1/4	3,485.94	1/4	3,128.40	1/4	2,769.42	1/4	2,410.33
1/2		1/2		1/2		1/2	4,488.48	1/2	4,166.91	1/2	3,830.20	1/2	3,478.49	1/2	3,120.95	1/2	2,761.94	1/2	2,402.85
3/4		3/4		3/4		3/4	4,481.93	3/4	4,160.04	3/4	3,823.02	3/4	3,471.04	3/4	3,113.49	3/4	2,754.46	3/4	2,395.37
11		11		11		11	4,475.37	11	4,153.17	11	3,815.83	11	3,463.60	11	3,106.02	11	2,746.98	11	2,387.89
1/4		1/4		1/4		1/4	4,468.81	1/4	4,146.30	1/4	3,808.64	1/4	3,456.15	1/4	3,098.56	1/4	2,739.49	1/4	2,380.41
1/2		1/2		1/2		1/2	4,462.25	1/2	4,139.42	1/2	3,801.45	1/2	3,448.70	1/2	3,091.10	1/2	2,732.01	1/2	2,372.93
3/4		3/4		3/4		3/4	4,455.67	3/4	4,132.52	3/4	3,794.24	3/4	3,441.25	3/4	3,083.62	3/4	2,724.53	3/4	2,365.45

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 51'-09" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 28177"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 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	2,357.97	0	1,998.89	0	1,639.80	0	1,289.63	0	944.77	0	587.06	0	227.99	0		0		0	
1/4	2,350.49	1/4	1,991.40	1/4	1,632.32	1/4	1,282.43	1/4	937.60	1/4	579.58	1/4	220.51	1/4		1/4		1/4	
1/2	2,343.01	1/2	1,983.92	1/2	1,624.84	1/2	1,275.23	1/2	930.42	1/2	572.10	1/2	213.02	1/2		1/2		1/2	
3/4	2,335.53	3/4	1,976.44	3/4	1,617.36	3/4	1,268.04	3/4	923.13	3/4	564.62	3/4	205.55	3/4		3/4		3/4	
1	2,328.04	1	1,968.96	1	1,609.88	1	1,260.84	1	915.83	1	557.14	1	198.07	1		1		1	
1/4	2,320.56	1/4	1,961.48	1/4	1,602.40	1/4	1,253.64	1/4	908.54	1/4	549.66	1/4	190.59	1/4		1/4		1/4	
1/2	2,313.08	1/2	1,954.00	1/2	1,594.92	1/2	1,246.44	1/2	901.25	1/2	542.17	1/2	183.11	1/2		1/2		1/2	
3/4	2,305.60	3/4	1,946.52	3/4	1,587.44	3/4	1,239.24	3/4	893.77	3/4	534.69	3/4	175.64	3/4		3/4		3/4	
2	2,298.12	2	1,939.04	2	1,579.95	2	1,232.05	2	886.29	2	527.21	2	168.17	2		2		2	
1/4	2,290.64	1/4	1,931.56	1/4	1,572.47	1/4	1,224.85	1/4	878.81	1/4	519.73	1/4	160.69	1/4		1/4		1/4	
1/2	2,283.16	1/2	1,924.08	1/2	1,564.99	1/2	1,217.65	1/2	871.33	1/2	512.25	1/2	153.22	1/2		1/2		1/2	
3/4	2,275.68	3/4	1,916.60	3/4	1,557.51	3/4	1,210.46	3/4	863.85	3/4	504.77	3/4	145.76	3/4		3/4		3/4	
3	2,268.20	3	1,909.11	3	1,550.03	3	1,203.26	3	856.36	3	497.29	3	138.30	3		3		3	
1/4	2,260.72	1/4	1,901.63	1/4	1,542.55	1/4	1,196.07	1/4	848.88	1/4	489.81	1/4	130.84	1/4		1/4		1/4	
1/2	2,253.24	1/2	1,894.15	1/2	1,535.07	1/2	1,188.88	1/2	841.40	1/2	482.33	1/2	123.38	1/2		1/2		1/2	
3/4	2,245.75	3/4	1,886.67	3/4	1,527.69	3/4	1,181.69	3/4	833.92	3/4	474.85	3/4	115.93	3/4		3/4		3/4	
4	2,238.27	4	1,879.19	4	1,520.32	4	1,174.51	4	826.44	4	467.37	4	108.49	4		4		4	
1/4	2,230.79	1/4	1,871.71	1/4	1,512.94	1/4	1,167.32	1/4	818.96	1/4	459.89	1/4	101.05	1/4		1/4		1/4	
1/2	2,223.31	1/2	1,864.23	1/2	1,505.57	1/2	1,160.14	1/2	811.48	1/2	452.41	1/2	93.61	1/2		1/2		1/2	
3/4	2,215.83	3/4	1,856.75	3/4	1,498.37	3/4	1,152.95	3/4	804.00	3/4	444.93	3/4	86.19	3/4		3/4		3/4	
5	2,208.35	5	1,849.27	5	1,491.17	5	1,145.77	5	796.52	5	437.45	5	78.78	5		5		5	
1/4	2,200.87	1/4	1,841.79	1/4	1,483.98	1/4	1,138.59	1/4	789.04	1/4	429.96	1/4	71.37	1/4		1/4		1/4	
1/2	2,193.39	1/2	1,834.31	1/2	1,476.78	1/2	1,131.40	1/2	781.56	1/2	422.48	1/2	63.96	1/2		1/2		1/2	
3/4	2,185.91	3/4	1,826.82	3/4	1,469.58	3/4	1,124.23	3/4	774.08	3/4	415.00	3/4	57.01	3/4		3/4		3/4	
6	2,178.43	6	1,819.34	6	1,462.38	6	1,117.05	6	766.60	6	407.52	6	50.05	6		6		6	
1/4	2,170.95	1/4	1,811.86	1/4	1,455.18	1/4	1,109.87	1/4	759.12	1/4	400.04	1/4	43.10	1/4		1/4		1/4	
1/2	2,163.47	1/2	1,804.38	1/2	1,447.99	1/2	1,102.69	1/2	751.63	1/2	392.56	1/2	36.15	1/2		1/2		1/2	
3/4	2,155.98	3/4	1,796.90	3/4	1,440.79	3/4	1,095.51	3/4	744.15	3/4	385.08	3/4	30.85	3/4		3/4		3/4	
7	2,148.50	7	1,789.42	7	1,433.59	7	1,088.34	7	736.67	7	377.60	7	25.56	7		7		7	
1/4	2,141.02	1/4	1,781.94	1/4	1,426.39	1/4	1,081.16	1/4	729.19	1/4	370.12	1/4	20.26	1/4		1/4		1/4	
1/2	2,133.54	1/2	1,774.46	1/2	1,419.19	1/2	1,073.98	1/2	721.71	1/2	362.64	1/2	14.96	1/2		1/2		1/2	
3/4	2,126.06	3/4	1,766.98	3/4	1,412.00	3/4	1,066.80	3/4	714.23	3/4	355.16	3/4		3/4		3/4		3/4	
8	2,118.58	8	1,759.50	8	1,404.80	8	1,059.62	8	706.75	8	347.68	8		8		8		8	
1/4	2,111.10	1/4	1,752.02	1/4	1,397.60	1/4	1,052.45	1/4	699.27	1/4	340.20	1/4		1/4		1/4		1/4	
1/2	2,103.62	1/2	1,744.53	1/2	1,390.40	1/2	1,045.27	1/2	691.79	1/2	332.72	1/2		1/2		1/2		1/2	
3/4	2,096.14	3/4	1,737.05	3/4	1,383.20	3/4	1,038.09	3/4	684.31	3/4	325.23	3/4		3/4		3/4		3/4	
9	2,088.66	9	1,729.57	9	1,376.01	9	1,030.91	9	676.83	9	317.75	9		9		9		9	
1/4	2,081.18	1/4	1,722.09	1/4	1,368.81	1/4	1,023.73	1/4	669.35	1/4	310.27	1/4		1/4		1/4		1/4	
1/2	2,073.69	1/2	1,714.61	1/2	1,361.61	1/2	1,016.55	1/2	661.87	1/2	302.79	1/2		1/2		1/2		1/2	
3/4	2,066.21	3/4	1,707.13	3/4	1,354.41	3/4	1,009.38	3/4	654.39	3/4	295.31	3/4		3/4		3/4		3/4	
10	2,058.73	10	1,699.65	10	1,347.21	10	1,002.20	10	646.90	10	287.83	10		10		10		10	
1/4	2,051.25	1/4	1,692.17	1/4	1,340.02	1/4	995.02	1/4	639.42	1/4	280.35	1/4		1/4		1/4		1/4	
1/2	2,043.77	1/2	1,684.69	1/2	1,332.82	1/2	987.84	1/2	631.94	1/2	272.87	1/2		1/2		1/2		1/2	
3/4	2,036.29	3/4	1,677.21	3/4	1,325.62	3/4	980.66	3/4	624.46	3/4	265.39	3/4		3/4		3/4		3/4	
11	2,028.81	11	1,669.73	11	1,318.42	11	973.49	11	616.98	11	257.91	11		11		11		11	
1/4	2,021.33	1/4	1,662.24	1/4	1,311.22	1/4	966.31	1/4	609.50	1/4	250.43	1/4		1/4		1/4		1/4	
1/2	2,013.85	1/2	1,654.76	1/2	1,304.03	1/2	959.13	1/2	602.02	1/2	242.95	1/2		1/2		1/2		1/2	
3/4	2,006.37	3/4	1,647.28	3/4	1,296.83	3/4	951.95	3/4	594.54	3/4	235.47	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/10/2011 CL - SW
CALCULATED: 11/11/2011 CL
PRINTED: 11/11/2011 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2011

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



BARGE "KIRBY 28177"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 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	4,789.65	0	4,472.66	0	4,149.23	0	3,810.67	0	3,457.49	0	3,099.90	0	2,740.85
1/4		1/4		1/4		1/4	4,784.54	1/4	4,466.08	1/4	4,142.33	1/4	3,803.46	1/4	3,450.04	1/4	3,092.42	1/4	2,733.37
1/2		1/2		1/2		1/2	4,779.43	1/2	4,459.50	1/2	4,135.43	1/2	3,796.25	1/2	3,442.59	1/2	3,084.94	1/2	2,725.89
3/4		3/4		3/4		3/4	4,773.09	3/4	4,452.89	3/4	4,128.51	3/4	3,789.01	3/4	3,435.15	3/4	3,077.46	3/4	2,718.41
1		1		1		1	4,766.75	1	4,446.29	1	4,121.59	1	3,781.77	1	3,427.70	1	3,069.98	1	2,710.93
1/4		1/4		1/4		1/4	4,760.41	1/4	4,439.68	1/4	4,114.67	1/4	3,774.53	1/4	3,420.25	1/4	3,062.50	1/4	2,703.45
1/2		1/2		1/2		1/2	4,754.06	1/2	4,433.08	1/2	4,107.75	1/2	3,767.29	1/2	3,412.80	1/2	3,055.02	1/2	2,695.97
3/4		3/4		3/4		3/4	4,746.84	3/4	4,426.45	3/4	4,100.80	3/4	3,760.03	3/4	3,405.35	3/4	3,047.54	3/4	2,688.49
2		2		2		2	4,739.61	2	4,419.82	2	4,093.86	2	3,752.76	2	3,397.91	2	3,040.06	2	2,681.01
1/4		1/4		1/4		1/4	4,732.38	1/4	4,413.18	1/4	4,086.91	1/4	3,745.50	1/4	3,390.46	1/4	3,032.58	1/4	2,673.53
1/2		1/2		1/2		1/2	4,725.15	1/2	4,406.55	1/2	4,079.96	1/2	3,738.24	1/2	3,383.01	1/2	3,025.10	1/2	2,666.05
3/4		3/4		3/4		3/4	4,717.70	3/4	4,399.89	3/4	4,072.99	3/4	3,730.95	3/4	3,375.56	3/4	3,017.62	3/4	2,658.57
3		3		3		3	4,710.26	3	4,393.24	3	4,066.02	3	3,723.66	3	3,368.12	3	3,010.14	3	2,651.09
1/4		1/4		1/4		1/4	4,702.81	1/4	4,386.58	1/4	4,059.04	1/4	3,716.37	1/4	3,360.67	1/4	3,002.66	1/4	2,643.61
1/2		1/2		1/2		1/2	4,695.36	1/2	4,379.92	1/2	4,052.07	1/2	3,709.09	1/2	3,353.22	1/2	2,995.18	1/2	2,636.13
3/4		3/4		3/4		3/4	4,688.31	3/4	4,373.23	3/4	4,045.07	3/4	3,701.77	3/4	3,345.77	3/4	2,987.70	3/4	2,628.65
4		4		4		4	4,681.26	4	4,366.55	4	4,038.07	4	3,694.46	4	3,338.32	4	2,980.22	4	2,621.17
1/4		1/4		1/4		1/4	4,674.21	1/4	4,359.86	1/4	4,031.07	1/4	3,687.14	1/4	3,330.88	1/4	2,972.74	1/4	2,613.69
1/2		1/2		1/2		1/2	4,667.16	1/2	4,353.18	1/2	4,024.07	1/2	3,679.83	1/2	3,323.43	1/2	2,965.26	1/2	2,606.21
3/4		3/4		3/4		3/4	4,660.76	3/4	4,346.47	3/4	4,017.04	3/4	3,672.48	3/4	3,315.98	3/4	2,957.78	3/4	2,598.73
5		5		5		5	4,654.37	5	4,339.76	5	4,010.02	5	3,665.14	5	3,308.53	5	2,950.30	5	2,591.25
1/4		1/4		1/4		1/4	4,647.97	1/4	4,333.05	1/4	4,002.99	1/4	3,657.80	1/4	3,301.08	1/4	2,942.82	1/4	2,583.77
1/2		1/2		1/2		1/2	4,641.57	1/2	4,326.34	1/2	3,995.96	1/2	3,650.46	1/2	3,293.64	1/2	2,935.34	1/2	2,576.29
3/4		3/4		3/4		3/4	4,635.15	3/4	4,319.60	3/4	3,988.91	3/4	3,643.09	3/4	3,286.19	3/4	2,927.86	3/4	2,568.81
6		6		6		6	4,628.73	6	4,312.86	6	3,981.86	6	3,635.73	6	3,278.74	6	2,920.38	6	2,561.33
1/4		1/4		1/4		1/4	4,622.31	1/4	4,306.12	1/4	3,974.81	1/4	3,628.36	1/4	3,271.29	1/4	2,912.90	1/4	2,553.85
1/2		1/2		1/2		1/2	4,615.88	1/2	4,299.38	1/2	3,967.75	1/2	3,620.99	1/2	3,263.84	1/2	2,905.42	1/2	2,546.37
3/4		3/4		3/4		3/4	4,609.43	3/4	4,292.62	3/4	3,960.67	3/4	3,613.59	3/4	3,256.40	3/4	2,897.94	3/4	2,538.89
7		7		7		7	4,602.98	7	4,285.86	7	3,953.59	7	3,606.20	7	3,248.95	7	2,890.46	7	2,531.41
1/4		1/4		1/4		1/4	4,596.53	1/4	4,279.09	1/4	3,946.52	1/4	3,598.81	1/4	3,241.50	1/4	2,882.98	1/4	2,523.93
1/2		1/2		1/2		1/2	4,590.08	1/2	4,272.33	1/2	3,939.44	1/2	3,591.41	1/2	3,234.05	1/2	2,875.50	1/2	2,516.45
3/4		3/4		3/4		3/4	4,583.61	3/4	4,265.54	3/4	3,932.33	3/4	3,583.99	3/4	3,226.61	3/4	2,868.02	3/4	2,508.97
8		8		8		8	4,577.13	8	4,258.74	8	3,925.22	8	3,576.57	8	3,219.16	8	2,860.53	8	2,501.49
1/4		1/4		1/4		1/4	4,570.65	1/4	4,251.95	1/4	3,918.12	1/4	3,569.15	1/4	3,211.71	1/4	2,853.05	1/4	2,494.01
1/2		1/2		1/2		1/2	4,564.18	1/2	4,245.16	1/2	3,911.01	1/2	3,561.73	1/2	3,204.26	1/2	2,845.57	1/2	2,486.53
3/4		3/4		3/4		3/4	4,557.67	3/4	4,238.34	3/4	3,903.88	3/4	3,554.29	3/4	3,196.81	3/4	2,838.09	3/4	2,479.05
9		9		9		9	4,551.17	9	4,231.53	9	3,896.75	9	3,546.85	9	3,189.37	9	2,830.61	9	2,471.57
1/4		1/4		1/4		1/4	4,544.67	1/4	4,224.71	1/4	3,889.61	1/4	3,539.41	1/4	3,181.92	1/4	2,823.13	1/4	2,464.09
1/2		1/2		1/2		1/2	4,538.16	1/2	4,217.89	1/2	3,882.48	1/2	3,531.97	1/2	3,174.47	1/2	2,815.65	1/2	2,456.61
3/4		3/4		3/4		3/4	4,531.63	3/4	4,211.05	3/4	3,875.32	3/4	3,524.52	3/4	3,167.02	3/4	2,808.17	3/4	2,449.13
10		10		10		10	4,525.10	10	4,204.20	10	3,868.16	10	3,517.07	10	3,159.57	10	2,800.69	10	2,441.65
1/4		1/4		1/4		1/4	4,518.57	1/4	4,197.35	1/4	3,861.00	1/4	3,509.63	1/4	3,152.13	1/4	2,793.21	1/4	2,434.17
1/2		1/2		1/2		1/2	4,512.04	1/2	4,190.51	1/2	3,853.84	1/2	3,502.18	1/2	3,144.68	1/2	2,785.73	1/2	2,426.69
3/4		3/4		3/4		3/4	4,505.49	3/4	4,183.64	3/4	3,846.66	3/4	3,494.73	3/4	3,137.22	3/4	2,778.25	3/4	2,419.21
11		11		11		11	4,498.93	11	4,176.77	11	3,839.47	11	3,487.28	11	3,129.77	11	2,770.77	11	2,411.73
1/4		1/4		1/4		1/4	4,492.37	1/4	4,169.90	1/4	3,832.28	1/4	3,479.83	1/4	3,122.31	1/4	2,763.29	1/4	2,404.25
1/2		1/2		1/2		1/2	4,485.81	1/2	4,163.03	1/2	3,825.10	1/2	3,472.39	1/2	3,114.86	1/2	2,755.81	1/2	2,396.77
3/4		3/4		3/4		3/4	4,479.24	3/4	4,156.13	3/4	3,817.89	3/4	3,464.94	3/4	3,107.38	3/4	2,748.33	3/4	2,389.29

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 51'-09" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 28177"

2 STBD
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 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	2,381.81	0	2,022.76	0	1,663.72	0	1,304.67	0	945.92	0	586.99	0	227.96	0		0		0	
1/4	2,374.33	1/4	2,015.28	1/4	1,656.24	1/4	1,297.19	1/4	938.45	1/4	579.51	1/4	220.48	1/4		1/4		1/4	
1/2	2,366.85	1/2	2,007.80	1/2	1,648.76	1/2	1,289.71	1/2	930.98	1/2	572.03	1/2	213.00	1/2		1/2		1/2	
3/4	2,359.37	3/4	2,000.32	3/4	1,641.28	3/4	1,282.23	3/4	923.51	3/4	564.55	3/4	205.52	3/4		3/4		3/4	
1	2,351.89	1	1,992.84	1	1,633.80	1	1,274.75	1	916.05	1	557.07	1	198.04	1		1		1	
1/4	2,344.41	1/4	1,985.36	1/4	1,626.32	1/4	1,267.27	1/4	908.58	1/4	549.59	1/4	190.57	1/4		1/4		1/4	
1/2	2,336.93	1/2	1,977.88	1/2	1,618.84	1/2	1,259.79	1/2	901.11	1/2	542.11	1/2	183.09	1/2		1/2		1/2	
3/4	2,329.45	3/4	1,970.40	3/4	1,611.36	3/4	1,252.31	3/4	893.64	3/4	534.63	3/4	175.62	3/4		3/4		3/4	
2	2,321.97	2	1,962.92	2	1,603.88	2	1,244.83	2	886.16	2	527.15	2	168.15	2		2		2	
1/4	2,314.49	1/4	1,955.44	1/4	1,596.40	1/4	1,237.35	1/4	878.69	1/4	519.67	1/4	160.67	1/4		1/4		1/4	
1/2	2,307.01	1/2	1,947.96	1/2	1,588.92	1/2	1,229.87	1/2	871.22	1/2	512.19	1/2	153.20	1/2		1/2		1/2	
3/4	2,299.53	3/4	1,940.48	3/4	1,581.44	3/4	1,222.39	3/4	863.74	3/4	504.71	3/4	145.74	3/4		3/4		3/4	
3	2,292.05	3	1,933.00	3	1,573.96	3	1,214.91	3	856.26	3	497.23	3	138.28	3		3		3	
1/4	2,284.57	1/4	1,925.52	1/4	1,566.48	1/4	1,207.43	1/4	848.78	1/4	489.75	1/4	130.82	1/4		1/4		1/4	
1/2	2,277.09	1/2	1,918.04	1/2	1,559.00	1/2	1,199.95	1/2	841.30	1/2	482.27	1/2	123.36	1/2		1/2		1/2	
3/4	2,269.61	3/4	1,910.56	3/4	1,551.52	3/4	1,192.47	3/4	833.82	3/4	474.79	3/4	115.92	3/4		3/4		3/4	
4	2,262.13	4	1,903.08	4	1,544.04	4	1,184.99	4	826.34	4	467.31	4	108.48	4		4		4	
1/4	2,254.65	1/4	1,895.60	1/4	1,536.56	1/4	1,177.51	1/4	818.86	1/4	459.83	1/4	101.04	1/4		1/4		1/4	
1/2	2,247.17	1/2	1,888.12	1/2	1,529.08	1/2	1,170.03	1/2	811.38	1/2	452.35	1/2	93.59	1/2		1/2		1/2	
3/4	2,239.69	3/4	1,880.64	3/4	1,521.60	3/4	1,162.55	3/4	803.90	3/4	444.87	3/4	86.18	3/4		3/4		3/4	
5	2,232.21	5	1,873.16	5	1,514.12	5	1,155.07	5	796.42	5	437.39	5	78.77	5		5		5	
1/4	2,224.73	1/4	1,865.68	1/4	1,506.64	1/4	1,147.59	1/4	788.94	1/4	429.91	1/4	71.36	1/4		1/4		1/4	
1/2	2,217.25	1/2	1,858.20	1/2	1,499.16	1/2	1,140.11	1/2	781.46	1/2	422.43	1/2	63.95	1/2		1/2		1/2	
3/4	2,209.77	3/4	1,850.72	3/4	1,491.68	3/4	1,132.64	3/4	773.98	3/4	414.95	3/4	57.00	3/4		3/4		3/4	
6	2,202.29	6	1,843.24	6	1,484.20	6	1,125.16	6	766.50	6	407.47	6	50.05	6		6		6	
1/4	2,194.81	1/4	1,835.76	1/4	1,476.72	1/4	1,117.69	1/4	759.02	1/4	399.99	1/4	43.10	1/4		1/4		1/4	
1/2	2,187.33	1/2	1,828.28	1/2	1,469.24	1/2	1,110.21	1/2	751.54	1/2	392.51	1/2	36.14	1/2		1/2		1/2	
3/4	2,179.85	3/4	1,820.80	3/4	1,461.76	3/4	1,102.74	3/4	744.06	3/4	385.03	3/4	30.85	3/4		3/4		3/4	
7	2,172.37	7	1,813.32	7	1,454.28	7	1,095.27	7	736.58	7	377.55	7	25.55	7		7		7	
1/4	2,164.89	1/4	1,805.84	1/4	1,446.80	1/4	1,087.81	1/4	729.10	1/4	370.07	1/4	20.26	1/4		1/4		1/4	
1/2	2,157.41	1/2	1,798.36	1/2	1,439.32	1/2	1,080.34	1/2	721.62	1/2	362.59	1/2	14.96	1/2		1/2		1/2	
3/4	2,149.93	3/4	1,790.88	3/4	1,431.84	3/4	1,072.87	3/4	714.14	3/4	355.11	3/4		3/4		3/4		3/4	
8	2,142.45	8	1,783.40	8	1,424.36	8	1,065.40	8	706.66	8	347.63	8		8		8		8	
1/4	2,134.97	1/4	1,775.92	1/4	1,416.88	1/4	1,057.94	1/4	699.18	1/4	340.15	1/4		1/4		1/4		1/4	
1/2	2,127.49	1/2	1,768.44	1/2	1,409.40	1/2	1,050.47	1/2	691.70	1/2	332.67	1/2		1/2		1/2		1/2	
3/4	2,120.01	3/4	1,760.96	3/4	1,401.92	3/4	1,043.00	3/4	684.22	3/4	325.19	3/4		3/4		3/4		3/4	
9	2,112.52	9	1,753.48	9	1,394.44	9	1,035.53	9	676.75	9	317.71	9		9		9		9	
1/4	2,105.04	1/4	1,746.00	1/4	1,386.96	1/4	1,028.06	1/4	669.27	1/4	310.23	1/4		1/4		1/4		1/4	
1/2	2,097.56	1/2	1,738.52	1/2	1,379.48	1/2	1,020.60	1/2	661.79	1/2	302.76	1/2		1/2		1/2		1/2	
3/4	2,090.08	3/4	1,731.04	3/4	1,372.00	3/4	1,013.13	3/4	654.31	3/4	295.28	3/4		3/4		3/4		3/4	
10	2,082.60	10	1,723.56	10	1,364.51	10	1,005.66	10	646.83	10	287.80	10		10		10		10	
1/4	2,075.12	1/4	1,716.08	1/4	1,357.03	1/4	998.19	1/4	639.35	1/4	280.32	1/4		1/4		1/4		1/4	
1/2	2,067.64	1/2	1,708.60	1/2	1,349.55	1/2	990.72	1/2	631.87	1/2	272.84	1/2		1/2		1/2		1/2	
3/4	2,060.16	3/4	1,701.12	3/4	1,342.07	3/4	983.26	3/4	624.39	3/4	265.36	3/4		3/4		3/4		3/4	
11	2,052.68	11	1,693.64	11	1,334.59	11	975.79	11	616.91	11	257.88	11		11		11		11	
1/4	2,045.20	1/4	1,686.16	1/4	1,327.11	1/4	968.32	1/4	609.43	1/4	250.40	1/4		1/4		1/4		1/4	
1/2	2,037.72	1/2	1,678.68	1/2	1,319.63	1/2	960.85	1/2	601.95	1/2	242.92	1/2		1/2		1/2		1/2	
3/4	2,030.24	3/4	1,671.20	3/4	1,312.15	3/4	953.38	3/4	594.47	3/4	235.44	3/4		3/4		3/4		3/4	

STRAPPED: 11/10/2011 CL - SW
CALCULATED: 11/11/2011 CL
PRINTED: 11/11/2011 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2011

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 28177"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05"

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	4,349.95	0	4,108.23	0	3,861.22	0	3,602.23	0	3,331.64	0	2,975.68	0	2,619.10
1/4		1/4		1/4		1/4	4,345.80	1/4	4,103.20	1/4	3,855.94	1/4	3,596.69	1/4	3,324.20	1/4	2,968.25	1/4	2,611.67
1/2		1/2		1/2		1/2	4,341.64	1/2	4,098.17	1/2	3,850.66	1/2	3,591.16	1/2	3,316.77	1/2	2,960.82	1/2	2,604.25
3/4		3/4		3/4		3/4	4,337.49	3/4	4,093.14	3/4	3,845.37	3/4	3,585.62	3/4	3,309.34	3/4	2,953.39	3/4	2,596.82
1		1		1		1	4,333.34	1	4,088.11	1	3,840.09	1	3,580.09	1	3,301.91	1	2,945.97	1	2,589.39
1/4		1/4		1/4		1/4	4,327.98	1/4	4,083.06	1/4	3,834.79	1/4	3,574.54	1/4	3,294.48	1/4	2,938.54	1/4	2,581.96
1/2		1/2		1/2		1/2	4,322.62	1/2	4,078.01	1/2	3,829.49	1/2	3,568.98	1/2	3,287.04	1/2	2,931.11	1/2	2,574.53
3/4		3/4		3/4		3/4	4,317.26	3/4	4,072.95	3/4	3,824.19	3/4	3,563.43	3/4	3,279.61	3/4	2,923.68	3/4	2,567.10
2		2		2		2	4,311.91	2	4,067.90	2	3,818.89	2	3,557.88	2	3,272.18	2	2,916.25	2	2,559.67
1/4		1/4		1/4		1/4	4,306.20	1/4	4,062.83	1/4	3,813.57	1/4	3,552.31	1/4	3,264.75	1/4	2,908.82	1/4	2,552.24
1/2		1/2		1/2		1/2	4,300.49	1/2	4,057.76	1/2	3,808.25	1/2	3,546.74	1/2	3,257.32	1/2	2,901.39	1/2	2,544.82
3/4		3/4		3/4		3/4	4,294.79	3/4	4,052.69	3/4	3,802.92	3/4	3,541.17	3/4	3,249.89	3/4	2,893.96	3/4	2,537.39
3		3		3		3	4,289.08	3	4,047.62	3	3,797.60	3	3,535.60	3	3,242.45	3	2,886.54	3	2,529.96
1/4		1/4		1/4		1/4	4,283.37	1/4	4,042.52	1/4	3,792.26	1/4	3,530.00	1/4	3,235.02	1/4	2,879.11	1/4	2,522.53
1/2		1/2		1/2		1/2	4,277.67	1/2	4,037.43	1/2	3,786.92	1/2	3,524.41	1/2	3,227.59	1/2	2,871.68	1/2	2,515.10
3/4		3/4		3/4		3/4	4,271.96	3/4	4,032.34	3/4	3,781.57	3/4	3,518.82	3/4	3,220.16	3/4	2,864.25	3/4	2,507.67
4		4		4		4	4,266.25	4	4,027.24	4	3,776.23	4	3,513.22	4	3,212.73	4	2,856.82	4	2,500.24
1/4		1/4		1/4		1/4	4,261.39	1/4	4,022.13	1/4	3,770.87	1/4	3,507.61	1/4	3,205.32	1/4	2,849.39	1/4	2,492.81
1/2		1/2		1/2		1/2	4,256.52	1/2	4,017.02	1/2	3,765.50	1/2	3,502.00	1/2	3,197.92	1/2	2,841.96	1/2	2,485.39
3/4		3/4		3/4		3/4	4,251.66	3/4	4,011.90	3/4	3,760.14	3/4	3,496.38	3/4	3,190.51	3/4	2,834.53	3/4	2,477.96
5		5		5		5	4,246.79	5	4,006.79	5	3,754.77	5	3,490.77	5	3,183.11	5	2,827.11	5	2,470.53
1/4		1/4		1/4		1/4	4,241.91	1/4	4,001.65	1/4	3,749.39	1/4	3,485.14	1/4	3,175.70	1/4	2,819.68	1/4	2,463.10
1/2		1/2		1/2		1/2	4,237.02	1/2	3,996.52	1/2	3,744.00	1/2	3,479.50	1/2	3,168.30	1/2	2,812.25	1/2	2,455.67
3/4		3/4		3/4		3/4	4,232.14	3/4	3,991.38	3/4	3,738.62	3/4	3,473.86	3/4	3,160.89	3/4	2,804.82	3/4	2,448.24
6		6		6		6	4,227.26	6	3,986.25	6	3,733.24	6	3,468.23	6	3,153.49	6	2,797.39	6	2,440.81
1/4		1/4		1/4		1/4	4,222.35	1/4	3,981.09	1/4	3,727.83	1/4	3,462.57	1/4	3,146.08	1/4	2,789.96	1/4	2,433.39
1/2		1/2		1/2		1/2	4,217.44	1/2	3,975.94	1/2	3,722.42	1/2	3,456.92	1/2	3,138.68	1/2	2,782.53	1/2	2,425.96
3/4		3/4		3/4		3/4	4,212.53	3/4	3,970.78	3/4	3,717.02	3/4	3,451.26	3/4	3,131.27	3/4	2,775.11	3/4	2,418.53
7		7		7		7	4,207.62	7	3,965.63	7	3,711.61	7	3,445.61	7	3,123.87	7	2,767.68	7	2,411.10
1/4		1/4		1/4		1/4	4,202.70	1/4	3,960.45	1/4	3,706.18	1/4	3,439.93	1/4	3,116.47	1/4	2,760.25	1/4	2,403.67
1/2		1/2		1/2		1/2	4,197.77	1/2	3,955.27	1/2	3,700.76	1/2	3,434.25	1/2	3,109.06	1/2	2,752.82	1/2	2,396.24
3/4		3/4		3/4		3/4	4,192.84	3/4	3,950.09	3/4	3,695.33	3/4	3,428.58	3/4	3,101.66	3/4	2,745.39	3/4	2,388.81
8		8		8		8	4,187.92	8	3,944.91	8	3,689.91	8	3,422.90	8	3,094.25	8	2,737.96	8	2,381.38
1/4		1/4		1/4		1/4	4,182.97	1/4	3,939.71	1/4	3,684.46	1/4	3,417.20	1/4	3,086.85	1/4	2,730.53	1/4	2,373.95
1/2		1/2		1/2		1/2	4,178.02	1/2	3,934.51	1/2	3,679.01	1/2	3,411.50	1/2	3,079.44	1/2	2,723.10	1/2	2,366.53
3/4		3/4		3/4		3/4	4,173.07	3/4	3,929.32	3/4	3,673.56	3/4	3,405.81	3/4	3,072.04	3/4	2,715.68	3/4	2,359.10
9		9		9		9	4,168.11	9	3,924.12	9	3,668.11	9	3,400.11	9	3,064.63	9	2,708.25	9	2,351.67
1/4		1/4		1/4		1/4	4,163.15	1/4	3,918.90	1/4	3,662.64	1/4	3,394.40	1/4	3,057.23	1/4	2,700.82	1/4	2,344.24
1/2		1/2		1/2		1/2	4,158.18	1/2	3,913.68	1/2	3,657.17	1/2	3,388.70	1/2	3,049.82	1/2	2,693.39	1/2	2,336.81
3/4		3/4		3/4		3/4	4,153.21	3/4	3,908.45	3/4	3,651.70	3/4	3,382.99	3/4	3,042.42	3/4	2,685.96	3/4	2,329.38
10		10		10		10	4,148.24	10	3,903.23	10	3,646.24	10	3,377.28	10	3,035.01	10	2,678.53	10	2,321.95
1/4		1/4		1/4		1/4	4,143.25	1/4	3,897.99	1/4	3,640.74	1/4	3,371.58	1/4	3,027.61	1/4	2,671.10	1/4	2,314.52
1/2		1/2		1/2		1/2	4,138.25	1/2	3,892.75	1/2	3,635.25	1/2	3,365.87	1/2	3,020.20	1/2	2,663.67	1/2	2,307.09
3/4		3/4		3/4		3/4	4,133.26	3/4	3,887.52	3/4	3,629.76	3/4	3,360.17	3/4	3,012.80	3/4	2,656.25	3/4	2,299.66
11		11		11	4,368.50	11	4,128.27	11	3,882.28	11	3,624.27	11	3,354.46	11	3,005.39	11	2,648.82	11	2,292.23
1/4		1/4		1/4	4,363.86	1/4	4,123.26	1/4	3,877.01	1/4	3,618.76	1/4	3,348.75	1/4	2,997.97	1/4	2,641.39	1/4	2,284.80
1/2		1/2		1/2	4,359.22	1/2	4,118.25	1/2	3,871.75	1/2	3,613.25	1/2	3,343.05	1/2	2,990.54	1/2	2,633.96	1/2	2,277.37
3/4		3/4		3/4	4,354.59	3/4	4,113.24	3/4	3,866.48	3/4	3,607.74	3/4	3,337.34	3/4	2,983.11	3/4	2,626.53	3/4	2,269.94

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 51'-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 28177"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05"

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	2,262.52	0	1,905.46	0	1,549.45	0	1,193.24	0	848.36	0	491.19	0	133.85	0		0		0	
1/4	2,255.09	1/4	1,898.04	1/4	1,542.00	1/4	1,186.06	1/4	840.94	1/4	483.74	1/4	126.40	1/4		1/4		1/4	
1/2	2,247.66	1/2	1,890.63	1/2	1,534.56	1/2	1,178.89	1/2	833.51	1/2	476.30	1/2	118.96	1/2		1/2		1/2	
3/4	2,240.23	3/4	1,883.21	3/4	1,527.12	3/4	1,171.71	3/4	826.09	3/4	468.86	3/4	111.52	3/4		3/4		3/4	
1	2,232.80	1	1,875.79	1	1,519.67	1	1,164.54	1	818.67	1	461.41	1	104.07	1		1		1	
1/4	2,225.37	1/4	1,868.38	1/4	1,512.23	1/4	1,157.36	1/4	811.24	1/4	453.97	1/4	96.94	1/4		1/4		1/4	
1/2	2,217.94	1/2	1,860.96	1/2	1,504.79	1/2	1,150.19	1/2	803.82	1/2	446.52	1/2	89.81	1/2		1/2		1/2	
3/4	2,210.51	3/4	1,853.54	3/4	1,497.34	3/4	1,143.01	3/4	796.40	3/4	439.08	3/4	82.68	3/4		3/4		3/4	
2	2,203.08	2	1,846.13	2	1,489.90	2	1,135.84	2	788.97	2	431.63	2	75.56	2		2		2	
1/4	2,195.65	1/4	1,838.71	1/4	1,482.46	1/4	1,128.66	1/4	781.53	1/4	424.19	1/4	69.37	1/4		1/4		1/4	
1/2	2,188.22	1/2	1,831.29	1/2	1,475.01	1/2	1,121.49	1/2	774.08	1/2	416.74	1/2	63.18	1/2		1/2		1/2	
3/4	2,180.79	3/4	1,823.87	3/4	1,467.57	3/4	1,114.31	3/4	766.64	3/4	409.30	3/4	56.99	3/4		3/4		3/4	
3	2,173.36	3	1,816.46	3	1,460.13	3	1,107.14	3	759.19	3	401.85	3	50.80	3		3		3	
1/4	2,165.93	1/4	1,809.04	1/4	1,452.68	1/4	1,099.96	1/4	751.75	1/4	394.41	1/4	45.87	1/4		1/4		1/4	
1/2	2,158.51	1/2	1,801.62	1/2	1,445.24	1/2	1,092.79	1/2	744.31	1/2	386.96	1/2	40.94	1/2		1/2		1/2	
3/4	2,151.08	3/4	1,794.21	3/4	1,437.80	3/4	1,085.61	3/4	736.86	3/4	379.52	3/4	36.01	3/4		3/4		3/4	
4	2,143.65	4	1,786.79	4	1,430.35	4	1,078.44	4	729.42	4	372.08	4	31.08	4		4		4	
1/4	2,136.20	1/4	1,779.37	1/4	1,422.91	1/4	1,071.27	1/4	721.97	1/4	364.63	1/4	27.41	1/4		1/4		1/4	
1/2	2,128.76	1/2	1,771.96	1/2	1,415.47	1/2	1,064.11	1/2	714.53	1/2	357.19	1/2	23.74	1/2		1/2		1/2	
3/4	2,121.32	3/4	1,764.54	3/4	1,408.02	3/4	1,056.95	3/4	707.08	3/4	349.74	3/4	20.07	3/4		3/4		3/4	
5	2,113.87	5	1,757.12	5	1,400.58	5	1,049.79	5	699.64	5	342.30	5	16.41	5		5		5	
1/4	2,106.43	1/4	1,749.70	1/4	1,393.14	1/4	1,042.63	1/4	692.19	1/4	334.85	1/4		1/4		1/4		1/4	
1/2	2,098.99	1/2	1,742.29	1/2	1,385.69	1/2	1,035.47	1/2	684.75	1/2	327.41	1/2		1/2		1/2		1/2	
3/4	2,091.54	3/4	1,734.87	3/4	1,378.25	3/4	1,028.31	3/4	677.30	3/4	319.96	3/4		3/4		3/4		3/4	
6	2,084.10	6	1,727.45	6	1,370.81	6	1,021.15	6	669.86	6	312.52	6		6		6		6	
1/4	2,076.66	1/4	1,720.04	1/4	1,363.36	1/4	1,013.99	1/4	662.41	1/4	305.07	1/4		1/4		1/4		1/4	
1/2	2,069.21	1/2	1,712.62	1/2	1,355.92	1/2	1,006.83	1/2	654.97	1/2	297.63	1/2		1/2		1/2		1/2	
3/4	2,061.77	3/4	1,705.20	3/4	1,348.48	3/4	999.67	3/4	647.53	3/4	290.18	3/4		3/4		3/4		3/4	
7	2,054.33	7	1,697.79	7	1,341.03	7	992.52	7	640.08	7	282.74	7		7		7		7	
1/4	2,046.88	1/4	1,690.37	1/4	1,333.59	1/4	985.36	1/4	632.64	1/4	275.30	1/4		1/4		1/4		1/4	
1/2	2,039.44	1/2	1,682.95	1/2	1,326.15	1/2	978.21	1/2	625.19	1/2	267.85	1/2		1/2		1/2		1/2	
3/4	2,032.00	3/4	1,675.53	3/4	1,318.70	3/4	971.05	3/4	617.75	3/4	260.41	3/4		3/4		3/4		3/4	
8	2,024.55	8	1,668.12	8	1,311.26	8	963.90	8	610.30	8	252.96	8		8		8		8	
1/4	2,017.11	1/4	1,660.70	1/4	1,303.82	1/4	956.75	1/4	602.86	1/4	245.52	1/4		1/4		1/4		1/4	
1/2	2,009.67	1/2	1,653.28	1/2	1,296.37	1/2	949.59	1/2	595.41	1/2	238.07	1/2		1/2		1/2		1/2	
3/4	2,002.22	3/4	1,645.87	3/4	1,288.93	3/4	942.44	3/4	587.97	3/4	230.63	3/4		3/4		3/4		3/4	
9	1,994.78	9	1,638.45	9	1,281.49	9	935.29	9	580.52	9	223.18	9		9		9		9	
1/4	1,987.34	1/4	1,631.03	1/4	1,274.04	1/4	928.13	1/4	573.08	1/4	215.74	1/4		1/4		1/4		1/4	
1/2	1,979.89	1/2	1,623.62	1/2	1,266.60	1/2	920.98	1/2	565.64	1/2	208.29	1/2		1/2		1/2		1/2	
3/4	1,972.45	3/4	1,616.20	3/4	1,259.16	3/4	913.82	3/4	558.19	3/4	200.85	3/4		3/4		3/4		3/4	
10	1,965.01	10	1,608.78	10	1,251.71	10	906.67	10	550.75	10	193.41	10		10		10		10	
1/4	1,957.56	1/4	1,601.36	1/4	1,244.27	1/4	899.52	1/4	543.30	1/4	185.96	1/4		1/4		1/4		1/4	
1/2	1,950.12	1/2	1,593.95	1/2	1,236.83	1/2	892.36	1/2	535.86	1/2	178.52	1/2		1/2		1/2		1/2	
3/4	1,942.68	3/4	1,586.53	3/4	1,229.38	3/4	885.21	3/4	528.41	3/4	171.07	3/4		3/4		3/4		3/4	
11	1,935.23	11	1,579.11	11	1,221.94	11	878.05	11	520.97	11	163.63	11		11		11		11	
1/4	1,927.79	1/4	1,571.70	1/4	1,214.76	1/4	870.63	1/4	513.52	1/4	156.18	1/4		1/4		1/4		1/4	
1/2	1,920.35	1/2	1,564.28	1/2	1,207.59	1/2	863.21	1/2	506.08	1/2	148.74	1/2		1/2		1/2		1/2	
3/4	1,912.90	3/4	1,556.86	3/4	1,200.41	3/4	855.78	3/4	498.63	3/4	141.29	3/4		3/4		3/4		3/4	

STRAPPED: 11/10/2011 CL - SW
CALCULATED: 11/11/2011 CL
PRINTED: 11/11/2011 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2011

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "KIRBY 28177"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	4,374.74	0	4,130.92	0	3,882.44	0	3,621.96	0	3,348.19	0	2,990.20	0	2,632.20
1/4		1/4		1/4		1/4	4,370.56	1/4	4,125.87	1/4	3,877.13	1/4	3,616.40	1/4	3,340.73	1/4	2,982.74	1/4	2,624.75
1/2		1/2		1/2		1/2	4,366.38	1/2	4,120.81	1/2	3,871.82	1/2	3,610.84	1/2	3,333.27	1/2	2,975.28	1/2	2,617.29
3/4		3/4		3/4		3/4	4,362.20	3/4	4,115.76	3/4	3,866.52	3/4	3,605.27	3/4	3,325.82	3/4	2,967.82	3/4	2,609.83
1		1		1		1	4,356.82	1	4,110.68	1	3,861.19	1	3,599.70	1	3,318.36	1	2,960.36	1	2,602.37
1/4		1/4		1/4		1/4	4,351.44	1/4	4,105.60	1/4	3,855.87	1/4	3,594.12	1/4	3,310.90	1/4	2,952.91	1/4	2,594.91
1/2		1/2		1/2		1/2	4,346.05	1/2	4,100.52	1/2	3,850.54	1/2	3,588.54	1/2	3,303.44	1/2	2,945.45	1/2	2,587.45
3/4		3/4		3/4		3/4	4,340.67	3/4	4,095.45	3/4	3,845.22	3/4	3,582.96	3/4	3,295.98	3/4	2,937.99	3/4	2,580.00
2		2		2		2	4,334.94	2	4,090.35	2	3,839.87	2	3,577.37	2	3,288.53	2	2,930.53	2	2,572.54
1/4		1/4		1/4		1/4	4,329.21	1/4	4,085.25	1/4	3,834.52	1/4	3,571.77	1/4	3,281.07	1/4	2,923.07	1/4	2,565.08
1/2		1/2		1/2		1/2	4,323.47	1/2	4,080.16	1/2	3,829.17	1/2	3,566.17	1/2	3,273.61	1/2	2,915.62	1/2	2,557.62
3/4		3/4		3/4		3/4	4,317.74	3/4	4,075.06	3/4	3,823.82	3/4	3,560.58	3/4	3,266.15	3/4	2,908.16	3/4	2,550.16
3		3		3		3	4,312.01	3	4,069.94	3	3,818.45	3	3,554.96	3	3,258.69	3	2,900.70	3	2,542.71
1/4		1/4		1/4		1/4	4,306.28	1/4	4,064.82	1/4	3,813.09	1/4	3,549.34	1/4	3,251.23	1/4	2,893.24	1/4	2,535.25
1/2		1/2		1/2		1/2	4,300.54	1/2	4,059.70	1/2	3,807.72	1/2	3,543.72	1/2	3,243.78	1/2	2,885.78	1/2	2,527.79
3/4		3/4		3/4		3/4	4,294.81	3/4	4,054.58	3/4	3,802.35	3/4	3,538.10	3/4	3,236.32	3/4	2,878.32	3/4	2,520.33
4		4		4		4	4,289.92	4	4,049.44	4	3,796.96	4	3,532.46	4	3,228.86	4	2,870.87	4	2,512.87
1/4		1/4		1/4		1/4	4,285.03	1/4	4,044.31	1/4	3,791.57	1/4	3,526.82	1/4	3,221.40	1/4	2,863.41	1/4	2,505.41
1/2		1/2		1/2		1/2	4,280.14	1/2	4,039.17	1/2	3,786.18	1/2	3,521.18	1/2	3,213.94	1/2	2,855.95	1/2	2,497.96
3/4		3/4		3/4		3/4	4,275.25	3/4	4,034.03	3/4	3,780.79	3/4	3,515.54	3/4	3,206.49	3/4	2,848.49	3/4	2,490.50
5		5		5		5	4,270.34	5	4,028.87	5	3,775.38	5	3,509.88	5	3,199.03	5	2,841.03	5	2,483.04
1/4		1/4		1/4		1/4	4,265.43	1/4	4,023.71	1/4	3,769.97	1/4	3,504.22	1/4	3,191.57	1/4	2,833.58	1/4	2,475.58
1/2		1/2		1/2		1/2	4,260.52	1/2	4,018.54	1/2	3,764.56	1/2	3,498.56	1/2	3,184.11	1/2	2,826.12	1/2	2,468.12
3/4		3/4		3/4		3/4	4,255.61	3/4	4,013.38	3/4	3,759.15	3/4	3,492.90	3/4	3,176.65	3/4	2,818.66	3/4	2,460.67
6		6		6		6	4,250.68	6	4,008.20	6	3,753.72	6	3,487.21	6	3,169.19	6	2,811.20	6	2,453.21
1/4		1/4		1/4		1/4	4,245.74	1/4	4,003.02	1/4	3,748.28	1/4	3,481.53	1/4	3,161.74	1/4	2,803.74	1/4	2,445.75
1/2		1/2		1/2		1/2	4,240.81	1/2	3,997.84	1/2	3,742.85	1/2	3,475.85	1/2	3,154.28	1/2	2,796.28	1/2	2,438.29
3/4		3/4		3/4		3/4	4,235.88	3/4	3,992.66	3/4	3,737.42	3/4	3,470.17	3/4	3,146.82	3/4	2,788.83	3/4	2,430.83
7		7		7		7	4,230.93	7	3,987.46	7	3,731.97	7	3,464.47	7	3,139.36	7	2,781.37	7	2,423.37
1/4		1/4		1/4		1/4	4,225.97	1/4	3,982.25	1/4	3,726.52	1/4	3,458.76	1/4	3,131.90	1/4	2,773.91	1/4	2,415.92
1/2		1/2		1/2		1/2	4,221.02	1/2	3,977.05	1/2	3,721.06	1/2	3,453.06	1/2	3,124.45	1/2	2,766.45	1/2	2,408.46
3/4		3/4		3/4		3/4	4,216.07	3/4	3,971.84	3/4	3,715.61	3/4	3,447.36	3/4	3,116.99	3/4	2,758.99	3/4	2,401.00
8		8		8		8	4,211.10	8	3,966.62	8	3,710.14	8	3,441.63	8	3,109.53	8	2,751.54	8	2,393.54
1/4		1/4		1/4		1/4	4,206.12	1/4	3,961.40	1/4	3,704.66	1/4	3,435.91	1/4	3,102.07	1/4	2,744.08	1/4	2,386.08
1/2		1/2		1/2		1/2	4,201.14	1/2	3,956.18	1/2	3,699.19	1/2	3,430.19	1/2	3,094.61	1/2	2,736.62	1/2	2,378.63
3/4		3/4		3/4		3/4	4,196.17	3/4	3,950.95	3/4	3,693.71	3/4	3,424.46	3/4	3,087.15	3/4	2,729.16	3/4	2,371.17
9		9		9		9	4,191.17	9	3,945.71	9	3,688.22	9	3,418.73	9	3,079.70	9	2,721.70	9	2,363.71
1/4		1/4		1/4		1/4	4,186.18	1/4	3,940.46	1/4	3,682.72	1/4	3,413.00	1/4	3,072.24	1/4	2,714.24	1/4	2,356.25
1/2		1/2		1/2		1/2	4,181.19	1/2	3,935.21	1/2	3,677.23	1/2	3,407.26	1/2	3,064.78	1/2	2,706.79	1/2	2,348.79
3/4		3/4		3/4		3/4	4,176.19	3/4	3,929.96	3/4	3,671.74	3/4	3,401.53	3/4	3,057.32	3/4	2,699.33	3/4	2,341.33
10		10		10		10	4,171.17	10	3,924.70	10	3,666.22	10	3,395.79	10	3,049.86	10	2,691.87	10	2,333.88
1/4		1/4		1/4		1/4	4,166.15	1/4	3,919.43	1/4	3,660.70	1/4	3,390.06	1/4	3,042.41	1/4	2,684.41	1/4	2,326.42
1/2		1/2		1/2		1/2	4,161.13	1/2	3,914.17	1/2	3,655.18	1/2	3,384.32	1/2	3,034.95	1/2	2,676.95	1/2	2,318.96
3/4		3/4		3/4	4,397.56	3/4	4,156.12	3/4	3,908.90	3/4	3,649.66	3/4	3,378.59	3/4	3,027.49	3/4	2,669.50	3/4	2,311.50
11		11		11	4,392.90	11	4,151.08	11	3,903.61	11	3,644.13	11	3,372.85	11	3,020.03	11	2,662.04	11	2,304.04
1/4		1/4		1/4	4,388.24	1/4	4,146.04	1/4	3,898.32	1/4	3,638.59	1/4	3,367.12	1/4	3,012.57	1/4	2,654.58	1/4	2,296.59
1/2		1/2		1/2	4,383.58	1/2	4,141.01	1/2	3,893.03	1/2	3,633.05	1/2	3,361.38	1/2	3,005.11	1/2	2,647.12	1/2	2,289.13
3/4		3/4		3/4	4,378.92	3/4	4,135.97	3/4	3,887.74	3/4	3,627.52	3/4	3,355.65	3/4	2,997.66	3/4	2,639.66	3/4	2,281.67

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.

GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 51'-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 28177"

3 STBD
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,274.21	0	1,916.22	0	1,558.22	0	1,200.23	0	842.53	0	484.63	0	126.64	0		0		0	
1/4	2,266.75	1/4	1,908.76	1/4	1,550.76	1/4	1,192.77	1/4	835.08	1/4	477.17	1/4	119.19	1/4		1/4		1/4	
1/2	2,259.29	1/2	1,901.30	1/2	1,543.31	1/2	1,185.31	1/2	827.64	1/2	469.71	1/2	111.73	1/2		1/2		1/2	
3/4	2,251.84	3/4	1,893.84	3/4	1,535.85	3/4	1,177.85	3/4	820.19	3/4	462.25	3/4	104.27	3/4		3/4		3/4	
1	2,244.38	1	1,886.38	1	1,528.39	1	1,170.40	1	812.75	1	454.80	1	97.13	1		1		1	
1/4	2,236.92	1/4	1,878.93	1/4	1,520.93	1/4	1,162.94	1/4	805.30	1/4	447.34	1/4	89.99	1/4		1/4		1/4	
1/2	2,229.46	1/2	1,871.47	1/2	1,513.47	1/2	1,155.48	1/2	797.85	1/2	439.88	1/2	82.84	1/2		1/2		1/2	
3/4	2,222.00	3/4	1,864.01	3/4	1,506.02	3/4	1,148.02	3/4	790.41	3/4	432.42	3/4	75.70	3/4		3/4		3/4	
2	2,214.54	2	1,856.55	2	1,498.56	2	1,140.56	2	782.95	2	424.96	2	69.50	2		2		2	
1/4	2,207.09	1/4	1,849.09	1/4	1,491.10	1/4	1,133.11	1/4	775.49	1/4	417.51	1/4	63.30	1/4		1/4		1/4	
1/2	2,199.63	1/2	1,841.63	1/2	1,483.64	1/2	1,125.65	1/2	768.03	1/2	410.05	1/2	57.10	1/2		1/2		1/2	
3/4	2,192.17	3/4	1,834.18	3/4	1,476.18	3/4	1,118.19	3/4	760.57	3/4	402.59	3/4	50.90	3/4		3/4		3/4	
3	2,184.71	3	1,826.72	3	1,468.72	3	1,110.73	3	753.12	3	395.13	3	45.95	3		3		3	
1/4	2,177.25	1/4	1,819.26	1/4	1,461.27	1/4	1,103.27	1/4	745.66	1/4	387.67	1/4	41.01	1/4		1/4		1/4	
1/2	2,169.80	1/2	1,811.80	1/2	1,453.81	1/2	1,095.81	1/2	738.20	1/2	380.22	1/2	36.06	1/2		1/2		1/2	
3/4	2,162.34	3/4	1,804.34	3/4	1,446.35	3/4	1,088.36	3/4	730.74	3/4	372.76	3/4	31.12	3/4		3/4		3/4	
4	2,154.88	4	1,796.89	4	1,438.89	4	1,080.90	4	723.28	4	365.30	4	27.44	4		4		4	
1/4	2,147.42	1/4	1,789.43	1/4	1,431.43	1/4	1,073.44	1/4	715.83	1/4	357.84	1/4	23.76	1/4		1/4		1/4	
1/2	2,139.96	1/2	1,781.97	1/2	1,423.98	1/2	1,065.98	1/2	708.37	1/2	350.38	1/2	20.09	1/2		1/2		1/2	
3/4	2,132.50	3/4	1,774.51	3/4	1,416.52	3/4	1,058.52	3/4	700.91	3/4	342.93	3/4	16.41	3/4		3/4		3/4	
5	2,125.05	5	1,767.05	5	1,409.06	5	1,051.07	5	693.45	5	335.47	5		5		5		5	
1/4	2,117.59	1/4	1,759.59	1/4	1,401.60	1/4	1,043.61	1/4	685.99	1/4	328.01	1/4		1/4		1/4		1/4	
1/2	2,110.13	1/2	1,752.14	1/2	1,394.14	1/2	1,036.15	1/2	678.54	1/2	320.55	1/2		1/2		1/2		1/2	
3/4	2,102.67	3/4	1,744.68	3/4	1,386.68	3/4	1,028.69	3/4	671.08	3/4	313.09	3/4		3/4		3/4		3/4	
6	2,095.21	6	1,737.22	6	1,379.23	6	1,021.24	6	663.62	6	305.64	6		6		6		6	
1/4	2,087.76	1/4	1,729.76	1/4	1,371.77	1/4	1,013.80	1/4	656.16	1/4	298.18	1/4		1/4		1/4		1/4	
1/2	2,080.30	1/2	1,722.30	1/2	1,364.31	1/2	1,006.35	1/2	648.70	1/2	290.72	1/2		1/2		1/2		1/2	
3/4	2,072.84	3/4	1,714.85	3/4	1,356.85	3/4	998.91	3/4	641.25	3/4	283.26	3/4		3/4		3/4		3/4	
7	2,065.38	7	1,707.39	7	1,349.39	7	991.46	7	633.79	7	275.80	7		7		7		7	
1/4	2,057.92	1/4	1,699.93	1/4	1,341.94	1/4	984.01	1/4	626.33	1/4	268.35	1/4		1/4		1/4		1/4	
1/2	2,050.46	1/2	1,692.47	1/2	1,334.48	1/2	976.57	1/2	618.87	1/2	260.89	1/2		1/2		1/2		1/2	
3/4	2,043.01	3/4	1,685.01	3/4	1,327.02	3/4	969.12	3/4	611.41	3/4	253.43	3/4		3/4		3/4		3/4	
8	2,035.55	8	1,677.55	8	1,319.56	8	961.67	8	603.96	8	245.97	8		8		8		8	
1/4	2,028.09	1/4	1,670.10	1/4	1,312.10	1/4	954.23	1/4	596.50	1/4	238.51	1/4		1/4		1/4		1/4	
1/2	2,020.63	1/2	1,662.64	1/2	1,304.64	1/2	946.78	1/2	589.04	1/2	231.06	1/2		1/2		1/2		1/2	
3/4	2,013.17	3/4	1,655.18	3/4	1,297.19	3/4	939.33	3/4	581.58	3/4	223.60	3/4		3/4		3/4		3/4	
9	2,005.72	9	1,647.72	9	1,289.73	9	931.89	9	574.12	9	216.14	9		9		9		9	
1/4	1,998.26	1/4	1,640.26	1/4	1,282.27	1/4	924.44	1/4	566.67	1/4	208.68	1/4		1/4		1/4		1/4	
1/2	1,990.80	1/2	1,632.81	1/2	1,274.81	1/2	916.99	1/2	559.21	1/2	201.22	1/2		1/2		1/2		1/2	
3/4	1,983.34	3/4	1,625.35	3/4	1,267.35	3/4	909.55	3/4	551.75	3/4	193.77	3/4		3/4		3/4		3/4	
10	1,975.88	10	1,617.89	10	1,259.90	10	902.10	10	544.29	10	186.31	10		10		10		10	
1/4	1,968.42	1/4	1,610.43	1/4	1,252.44	1/4	894.66	1/4	536.83	1/4	178.85	1/4		1/4		1/4		1/4	
1/2	1,960.97	1/2	1,602.97	1/2	1,244.98	1/2	887.21	1/2	529.38	1/2	171.39	1/2		1/2		1/2		1/2	
3/4	1,953.51	3/4	1,595.51	3/4	1,237.52	3/4	879.76	3/4	521.92	3/4	163.93	3/4		3/4		3/4		3/4	
11	1,946.05	11	1,588.06	11	1,230.06	11	872.32	11	514.46	11	156.48	11		11		11		11	
1/4	1,938.59	1/4	1,580.60	1/4	1,222.60	1/4	864.87	1/4	507.00	1/4	149.02	1/4		1/4		1/4		1/4	
1/2	1,931.13	1/2	1,573.14	1/2	1,215.15	1/2	857.42	1/2	499.54	1/2	141.56	1/2		1/2		1/2		1/2	
3/4	1,923.68	3/4	1,565.68	3/4	1,207.69	3/4	849.98	3/4	492.09	3/4	134.10	3/4		3/4		3/4		3/4	

STRAPPED: 11/10/2011 CL - SW
CALCULATED: 11/11/2011 CL
PRINTED: 11/11/2011 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2011

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
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