BARGE "KIRBY 29112"

ULLAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	BOW	**STERN**	**BOW**	**STERN**	**BOW**	**STERN**	**BOW**	**STERN**	**BOW**	**STERN**	**BOW**	**STERN**
1 PORT	00-1/4	- 00-1/4	00-5/8	- 00-5/8	00-7/8	- 00-7/8	01-1/4	- 01-1/4	01-1/2	- 01-1/2	01-3/4	- 01-3/4
1 STBD	00-1/4	- 00-1/4	00-5/8	- 00-5/8	00-7/8	- 00-7/8	01-1/4	- 01-1/4	01-1/2	- 01-1/2	01-3/4	- 01-3/4
2 PORT	00-3/8	- 00-3/8	00-3/4	- 00-3/4	01-1/4	- 01-1/4	01-5/8	- 01-5/8	02-0/8	- 02-0/8	02-3/8	- 02-3/8
2 STBD	00-3/8	- 00-3/8	00-3/4	- 00-3/4	01-1/4	- 01-1/4	01-5/8	- 01-5/8	02-0/8	- 02-0/8	02-3/8	- 02-3/8
3 PORT	00-3/8	- 00-3/8	00-3/4	- 00-3/4	01-1/8	- 01-1/8	01-1/2	- 01-1/2	01-7/8	- 01-7/8	02-3/8	- 02-3/8
3 STBD	00-3/8	- 00-3/8	00-3/4	- 00-3/4	01-1/8	- 01-1/8	01-1/2	- 01-1/2	01-7/8	- 01-7/8	02-3/8	- 02-3/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT	=	2'-00"	
AFT DRAFT	=	4'-00"	
DIFF.	=	2'-00"	(DOWN BY STERN)

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 1 PORT IS - 00-5/8"
FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 3'-11 3/8"

LENGTH BETWEEN DRAFT MARKS: 261'-00"

March 27, 2013

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

http://www.pmacorp.net

BARGE "KIRBY 29112"

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	4,953.42	0	4,619.33	0	4,279.78	0	3,923.73	0	3,551.81	0	3,175.28	0	2,797.23
1/4		1/4		1/4		1/4	4,948.04	1/4	4,612.44	1/4	4,272.54	1/4	3,916.15	1/4	3,543.97	1/4	3,167.40	1/4	2,789.36
1/2		1/2		1/2		1/2	4,941.36	1/2	4,605.52	1/2	4,265.27	1/2	3,908.53	1/2	3,536.13	1/2	3,159.53	1/2	2,781.48
3/4		3/4		3/4		3/4	4,934.69	3/4	4,598.60	3/4	4,258.01	3/4	3,900.92	3/4	3,528.28	3/4	3,151.65	3/4	2,773.61
1		1		1		1	4,928.01	1	4,591.67	1	4,250.74	1	3,893.31	1	3,520.44	1	3,143.77	1	2,765.73
1/4		1/4		1/4		1/4	4,921.33	1/4	4,584.75	1/4	4,243.48	1/4	3,885.69	1/4	3,512.60	1/4	3,135.90	1/4	2,757.85
1/2		1/2		1/2		1/2	4,913.72	1/2	4,577.80	1/2	4,236.18	1/2	3,878.05	1/2	3,504.76	1/2	3,128.02	1/2	2,749.98
3/4		3/4		3/4		3/4	4,906.11	3/4	4,570.85	3/4	4,228.89	3/4	3,870.41	3/4	3,496.92	3/4	3,120.15	3/4	2,742.10
2		2		2		2	4,898.50	2	4,563.90	2	4,221.59	2	3,862.77	2	3,489.08	2	3,112.27	2	2,734.23
1/4		1/4		1/4		1/4	4,890.89	1/4	4,556.95	1/4	4,214.30	1/4	3,855.14	1/4	3,481.24	1/4	3,104.39	1/4	2,726.35
1/2		1/2		1/2		1/2	4,883.04	1/2	4,549.97	1/2	4,206.98	1/2	3,847.47	1/2	3,473.40	1/2	3,096.52	1/2	2,718.47
3/4		3/4		3/4		3/4	4,875.20	3/4	4,542.99	3/4	4,199.65	3/4	3,839.80	3/4	3,465.56	3/4	3,088.64	3/4	2,710.60
3		3		3		3	4,867.36	3	4,536.01	3	4,192.33	3	3,832.14	3	3,457.72	3	3,080.77	3	2,702.72
1/4		1/4		1/4		1/4	4,859.52	1/4	4,529.03	1/4	4,185.00	1/4	3,824.47	1/4	3,449.87	1/4	3,072.89	1/4	2,694.85
1/2		1/2		1/2		1/2	4,852.11	1/2	4,522.02	1/2	4,177.65	1/2	3,816.77	1/2	3,442.03	1/2	3,065.01	1/2	2,686.97
3/4		3/4		3/4		3/4	4,844.71	3/4	4,515.02	3/4	4,170.30	3/4	3,809.08	3/4	3,434.19	3/4	3,057.14	3/4	2,679.10
4		4		4		4	4,837.30	4	4,508.01	4	4,162.95	4	3,801.38	4	3,426.35	4	3,049.26	4	2,671.22
1/4		1/4		1/4		1/4	4,829.89	1/4	4,501.00	1/4	4,155.60	1/4	3,793.68	1/4	3,418.51	1/4	3,041.39	1/4	2,663.34
1/2		1/2		1/2		1/2	4,823.20	1/2	4,493.96	1/2	4,148.22	1/2	3,785.96	1/2	3,410.67	1/2	3,033.51	1/2	2,655.47
3/4		3/4		3/4		3/4	4,816.50	3/4	4,486.92	3/4	4,140.83	3/4	3,778.24	3/4	3,402.83	3/4	3,025.63	3/4	2,647.59
5		5		5		5	4,809.81	5	4,479.89	5	4,133.45	5	3,770.51	5	3,394.99	5	3,017.76	5	2,639.72
1/4		1/4		1/4		1/4	4,803.11	1/4	4,472.85	1/4	4,126.07	1/4	3,762.79	1/4	3,387.15	1/4	3,009.88	1/4	2,631.84
1/2		1/2		1/2		1/2	4,796.39	1/2	4,465.78	1/2	4,118.66	1/2	3,755.03	1/2	3,379.31	1/2	3,002.01	1/2	2,623.96
3/4		3/4		3/4		3/4	4,789.67	3/4	4,458.72	3/4	4,111.25	3/4	3,747.28	3/4	3,371.46	3/4	2,994.13	3/4	2,616.09
6		6		6		6	4,782.95	6	4,451.65	6	4,103.84	6	3,739.52	6	3,363.62	6	2,986.26	6	2,608.21
1/4		1/4		1/4		1/4	4,776.22	1/4	4,444.58	1/4	4,096.43	1/4	3,731.77	1/4	3,355.78	1/4	2,978.38	1/4	2,600.34
1/2		1/2		1/2		1/2	4,769.47	1/2	4,437.49	1/2	4,088.99	1/2	3,723.99	1/2	3,347.94	1/2	2,970.50	1/2	2,592.46
3/4		3/4		3/4		3/4	4,762.72	3/4	4,430.39	3/4	4,081.55	3/4	3,716.20	3/4	3,340.10	3/4	2,962.63	3/4	2,584.58
7		7		7		7	4,755.97	7	4,423.30	7	4,074.11	7	3,708.42	7	3,332.26	7	2,954.75	7	2,576.71
1/4		1/4		1/4		1/4	4,749.21	1/4	4,416.20	1/4	4,066.68	1/4	3,700.64	1/4	3,324.42	1/4	2,946.88	1/4	2,568.83
1/2		1/2		1/2		1/2	4,742.43	1/2	4,409.08	1/2	4,059.21	1/2	3,692.83	1/2	3,316.58	1/2	2,939.00	1/2	2,560.96
3/4		3/4		3/4		3/4	4,735.65	3/4	4,401.95	3/4	4,051.74	3/4	3,685.02	3/4	3,308.74	3/4	2,931.12	3/4	2,553.08
8		8		8		8	4,728.87	8	4,394.83	8	4,044.27	8	3,677.20	8	3,300.90	8	2,923.25	8	2,545.21
1/4		1/4		1/4		1/4	4,722.09	1/4	4,387.70	1/4	4,036.80	1/4	3,669.39	1/4	3,293.05	1/4	2,915.37	1/4	2,537.33
1/2		1/2		1/2		1/2	4,715.28	1/2	4,380.55	1/2	4,029.31	1/2	3,661.56	1/2	3,285.21	1/2	2,907.50	1/2	2,529.45
3/4		3/4		3/4		3/4	4,708.47	3/4	4,373.39	3/4	4,021.81	3/4	3,653.73	3/4	3,277.37	3/4	2,899.62	3/4	2,521.58
9		9		9		9	4,701.66	9	4,366.24	9	4,014.31	9	3,645.89	9	3,269.53	9	2,891.74	9	2,513.70
1/4		1/4		1/4		1/4	4,694.85	1/4	4,359.09	1/4	4,006.81	1/4	3,638.06	1/4	3,261.69	1/4	2,883.87	1/4	2,505.83
1/2		1/2		1/2		1/2	4,688.01	1/2	4,351.90	1/2	3,999.29	1/2	3,630.22	1/2	3,253.85	1/2	2,875.99	1/2	2,497.95
3/4		3/4		3/4		3/4	4,681.17	3/4	4,344.72	3/4	3,991.76	3/4	3,622.38	3/4	3,246.01	3/4	2,868.12	3/4	2,490.07
10		10		10		10	4,674.33	10	4,337.54	10	3,984.24	10	3,614.54	10	3,238.17	10	2,860.24	10	2,482.20
1/4		1/4		1/4		1/4	4,667.49	1/4	4,330.35	1/4	3,976.71	1/4	3,606.69	1/4	3,230.33	1/4	2,852.37	1/4	2,474.32
1/2		1/2		1/2		1/2	4,660.62	1/2	4,323.14	1/2	3,969.15	1/2	3,598.85	1/2	3,222.47	1/2	2,844.49	1/2	2,466.45
3/4		3/4		3/4		3/4	4,653.75	3/4	4,315.93	3/4	3,961.60	3/4	3,591.01	3/4	3,214.62	3/4	2,836.61	3/4	2,458.57
11		11		11		11	4,646.88	11	4,308.72	11	3,954.04	11	3,583.17	11	3,206.76	11	2,828.74	11	2,450.69
1/4		1/4		1/4		1/4	4,640.01	1/4	4,301.51	1/4	3,946.49	1/4	3,575.33	1/4	3,198.90	1/4	2,820.86	1/4	2,442.82
1/2		1/2		1/2		1/2	4,633.12	1/2	4,294.26	1/2	3,938.90	1/2	3,567.49	1/2	3,191.03	1/2	2,812.99	1/2	2,434.94
3/4		3/4		3/4	4,958.80	3/4	4,626.23	3/4	4,287.02	3/4	3,931.32	3/4	3,559.65	3/4	3,183.15	3/4	2,805.11	3/4	2,427.07

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 51'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "KIRBY 29112"

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	2,419.19	0	2,041.15	0	1,663.10	0	1,286.45	0	909.18	0	531.18	0	182.83	0		0		0	
1/4	2,411.31	1/4	2,033.27	1/4	1,655.23	1/4	1,278.62	1/4	901.30	1/4	523.31	1/4	176.20	1/4		1/4		1/4	
1/2	2,403.44	1/2	2,025.40	1/2	1,647.35	1/2	1,270.80	1/2	893.43	1/2	515.49	1/2	169.68	1/2		1/2		1/2	
3/4	2,395.56	3/4	2,017.52	3/4	1,639.48	3/4	1,262.97	3/4	885.55	3/4	507.68	3/4	163.17	3/4		3/4		3/4	
1	2,387.69	1	2,009.64	1	1,631.60	1	1,255.14	1	877.68	1	499.86	1	156.65	1		1		1	
1/4	2,379.81	1/4	2,001.77	1/4	1,623.72	1/4	1,247.32	1/4	869.80	1/4	492.04	1/4	150.13	1/4		1/4		1/4	
1/2	2,371.94	1/2	1,993.89	1/2	1,615.85	1/2	1,239.49	1/2	861.93	1/2	484.32	1/2	143.72	1/2		1/2		1/2	
3/4	2,364.06	3/4	1,986.02	3/4	1,607.97	3/4	1,231.67	3/4	854.05	3/4	476.59	3/4	137.32	3/4		3/4		3/4	
2	2,356.18	2	1,978.14	2	1,600.10	2	1,223.84	2	846.17	2	468.87	2	130.92	2		2		2	
1/4	2,348.31	1/4	1,970.26	1/4	1,592.22	1/4	1,216.01	1/4	838.30	1/4	461.14	1/4	124.51	1/4		1/4		1/4	
1/2	2,340.43	1/2	1,962.39	1/2	1,584.35	1/2	1,208.19	1/2	830.42	1/2	453.52	1/2	118.23	1/2		1/2		1/2	
3/4	2,332.56	3/4	1,954.51	3/4	1,576.47	3/4	1,200.36	3/4	822.55	3/4	445.91	3/4	111.95	3/4		3/4		3/4	
3	2,324.68	3	1,946.64	3	1,568.59	3	1,192.53	3	814.67	3	438.29	3	105.67	3		3		3	
1/4	2,316.80	1/4	1,938.76	1/4	1,560.72	1/4	1,184.71	1/4	806.80	1/4	430.68	1/4	99.38	1/4		1/4		1/4	
1/2	2,308.93	1/2	1,930.88	1/2	1,552.85	1/2	1,176.86	1/2	798.92	1/2	423.17	1/2	93.23	1/2		1/2		1/2	
3/4	2,301.05	3/4	1,923.01	3/4	1,544.99	3/4	1,169.02	3/4	791.04	3/4	415.66	3/4	87.08	3/4		3/4		3/4	
4	2,293.18	4	1,915.13	4	1,537.12	4	1,161.17	4	783.17	4	408.16	4	80.92	4		4		4	
1/4	2,285.30	1/4	1,907.26	1/4	1,529.26	1/4	1,153.33	1/4	775.29	1/4	400.65	1/4	74.77	1/4		1/4		1/4	
1/2	2,277.42	1/2	1,899.38	1/2	1,521.41	1/2	1,145.45	1/2	767.42	1/2	393.25	1/2	68.76	1/2		1/2		1/2	
3/4	2,269.55	3/4	1,891.51	3/4	1,513.57	3/4	1,137.58	3/4	759.54	3/4	385.86	3/4	62.75	3/4		3/4		3/4	
5	2,261.67	5	1,883.63	5	1,505.72	5	1,129.70	5	751.67	5	378.46	5	56.74	5		5		5	
1/4	2,253.80	1/4	1,875.75	1/4	1,497.87	1/4	1,121.82	1/4	743.79	1/4	371.06	1/4	50.72	1/4		1/4		1/4	
1/2	2,245.92	1/2	1,867.88	1/2	1,490.03	1/2	1,113.95	1/2	735.91	1/2	363.78	1/2	45.31	1/2		1/2		1/2	
3/4	2,238.04	3/4	1,860.00	3/4	1,482.19	3/4	1,106.07	3/4	728.04	3/4	356.49	3/4	39.89	3/4		3/4		3/4	
6	2,230.17	6	1,852.13	6	1,474.35	6	1,098.20	6	720.16	6	349.20	6	34.47	6		6		6	
1/4	2,222.29	1/4	1,844.25	1/4	1,466.51	1/4	1,090.32	1/4	712.29	1/4	341.91	1/4	29.05	1/4		1/4		1/4	
1/2	2,214.42	1/2	1,836.37	1/2	1,458.67	1/2	1,082.45	1/2	704.41	1/2	334.73	1/2	25.09	1/2		1/2		1/2	
3/4	2,206.54	3/4	1,828.50	3/4	1,450.84	3/4	1,074.57	3/4	696.54	3/4	327.56	3/4	21.12	3/4		3/4		3/4	
7	2,198.67	7	1,820.62	7	1,443.01	7	1,066.69	7	688.66	7	320.38	7	17.16	7		7		7	
1/4	2,190.79	1/4	1,812.75	1/4	1,435.17	1/4	1,058.82	1/4	680.78	1/4	313.20	1/4	13.19	1/4		1/4		1/4	
1/2	2,182.91	1/2	1,804.87	1/2	1,427.34	1/2	1,050.94	1/2	672.91	1/2	306.13	1/2		1/2		1/2		1/2	
3/4	2,175.04	3/4	1,796.99	3/4	1,419.51	3/4	1,043.07	3/4	665.03	3/4	299.06	3/4		3/4		3/4		3/4	
8	2,167.16	8	1,789.12	8	1,411.68	8	1,035.19	8	657.16	8	291.99	8		8		8		8	
1/4	2,159.29	1/4	1,781.24	1/4	1,403.85	1/4	1,027.32	1/4	649.28	1/4	284.93	1/4		1/4		1/4		1/4	
1/2	2,151.41	1/2	1,773.37	1/2	1,396.02	1/2	1,019.44	1/2	641.41	1/2	277.97	1/2		1/2		1/2		1/2	
3/4	2,143.53	3/4	1,765.49	3/4	1,388.20	3/4	1,011.56	3/4	633.53	3/4	271.01	3/4		3/4		3/4		3/4	
9	2,135.66	9	1,757.62	9	1,380.37	9	1,003.69	9	625.65	9	264.05	9		9		9		9	
1/4	2,127.78	1/4	1,749.74	1/4	1,372.54	1/4	995.81	1/4	617.78	1/4	257.09	1/4		1/4		1/4		1/4	
1/2	2,119.91	1/2	1,741.86	1/2	1,364.72	1/2	987.94	1/2	609.90	1/2	250.24	1/2		1/2		1/2		1/2	
3/4	2,112.03	3/4	1,733.99	3/4	1,356.89	3/4	980.06	3/4	602.03	3/4	243.39	3/4		3/4		3/4		3/4	
10	2,104.15	10	1,726.11	10	1,349.06	10	972.19	10	594.15	10	236.54	10		10		10		10	
1/4	2,096.28	1/4	1,718.24	1/4	1,341.24	1/4	964.31	1/4	586.28	1/4	229.69	1/4		1/4		1/4		1/4	
1/2	2,088.40	1/2	1,710.36	1/2	1,333.41	1/2	956.43	1/2	578.40	1/2	222.95	1/2		1/2		1/2		1/2	
3/4	2,080.53	3/4	1,702.48	3/4	1,325.58	3/4	948.56	3/4	570.52	3/4	216.21	3/4		3/4		3/4		3/4	
11	2,072.65	11	1,694.61	11	1,317.76	11	940.68	11	562.65	11	209.47	11		11		11		11	
1/4	2,064.78	1/4	1,686.73	1/4	1,309.93	1/4	932.81	1/4	554.77	1/4	202.73	1/4		1/4		1/4		1/4	
1/2	2,056.90	1/2	1,678.86	1/2	1,302.10	1/2	924.93	1/2	546.91	1/2	196.10	1/2		1/2		1/2		1/2	
3/4	2,049.02	3/4	1,670.98	3/4	1,294.28	3/4	917.06	3/4	539.04	3/4	189.47	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/27/2013 CL - SW
CALCULATED: 03/27/2013 CL
PRINTED: 03/27/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2013

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

BARGE "KIRBY 29112"

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	4,958.30	0	4,625.87	0	4,286.83	0	3,931.28	0	3,559.79	0	3,183.47	0	2,805.60
1/4		1/4		1/4		1/4	4,952.92	1/4	4,618.98	1/4	4,279.59	1/4	3,923.70	1/4	3,551.95	1/4	3,175.60	1/4	2,797.73
1/2		1/2		1/2		1/2	4,947.54	1/2	4,612.09	1/2	4,272.35	1/2	3,916.12	1/2	3,544.11	1/2	3,167.72	1/2	2,789.85
3/4		3/4		3/4		3/4	4,940.87	3/4	4,605.17	3/4	4,265.09	3/4	3,908.51	3/4	3,536.27	3/4	3,159.85	3/4	2,781.98
1		1		1		1	4,934.19	1	4,598.26	1	4,257.82	1	3,900.90	1	3,528.44	1	3,151.98	1	2,774.11
1/4		1/4		1/4		1/4	4,927.52	1/4	4,591.34	1/4	4,250.56	1/4	3,893.29	1/4	3,520.60	1/4	3,144.11	1/4	2,766.24
1/2		1/2		1/2		1/2	4,920.84	1/2	4,584.42	1/2	4,243.30	1/2	3,885.68	1/2	3,512.76	1/2	3,136.24	1/2	2,758.37
3/4		3/4		3/4		3/4	4,913.23	3/4	4,577.47	3/4	4,236.01	3/4	3,878.04	3/4	3,504.92	3/4	3,128.36	3/4	2,750.49
2		2		2		2	4,905.63	2	4,570.52	2	4,228.72	2	3,870.41	2	3,497.09	2	3,120.49	2	2,742.62
1/4		1/4		1/4		1/4	4,898.02	1/4	4,563.58	1/4	4,221.43	1/4	3,862.77	1/4	3,489.25	1/4	3,112.62	1/4	2,734.75
1/2		1/2		1/2		1/2	4,890.41	1/2	4,556.63	1/2	4,214.14	1/2	3,855.14	1/2	3,481.41	1/2	3,104.75	1/2	2,726.88
3/4		3/4		3/4		3/4	4,882.57	3/4	4,549.65	3/4	4,206.82	3/4	3,847.48	3/4	3,473.58	3/4	3,096.87	3/4	2,719.00
3		3		3		3	4,874.74	3	4,542.68	3	4,199.50	3	3,839.81	3	3,465.74	3	3,089.00	3	2,711.13
1/4		1/4		1/4		1/4	4,866.90	1/4	4,535.70	1/4	4,192.17	1/4	3,832.15	1/4	3,457.90	1/4	3,081.13	1/4	2,703.26
1/2		1/2		1/2		1/2	4,859.06	1/2	4,528.72	1/2	4,184.85	1/2	3,824.49	1/2	3,450.06	1/2	3,073.26	1/2	2,695.39
3/4		3/4		3/4		3/4	4,851.66	3/4	4,521.72	3/4	4,177.51	3/4	3,816.79	3/4	3,442.23	3/4	3,065.38	3/4	2,687.51
4		4		4		4	4,844.25	4	4,514.71	4	4,170.16	4	3,809.10	4	3,434.39	4	3,057.51	4	2,679.64
1/4		1/4		1/4		1/4	4,836.85	1/4	4,507.71	1/4	4,162.81	1/4	3,801.41	1/4	3,426.55	1/4	3,049.64	1/4	2,671.77
1/2		1/2		1/2		1/2	4,829.45	1/2	4,500.70	1/2	4,155.46	1/2	3,793.71	1/2	3,418.71	1/2	3,041.77	1/2	2,663.90
3/4		3/4		3/4		3/4	4,822.75	3/4	4,493.67	3/4	4,148.08	3/4	3,785.99	3/4	3,410.88	3/4	3,033.90	3/4	2,656.03
5		5		5		5	4,816.06	5	4,486.63	5	4,140.70	5	3,778.27	5	3,403.04	5	3,026.02	5	2,648.15
1/4		1/4		1/4		1/4	4,809.37	1/4	4,479.60	1/4	4,133.33	1/4	3,770.55	1/4	3,395.20	1/4	3,018.15	1/4	2,640.28
1/2		1/2		1/2		1/2	4,802.68	1/2	4,472.57	1/2	4,125.95	1/2	3,762.83	1/2	3,387.36	1/2	3,010.28	1/2	2,632.41
3/4		3/4		3/4		3/4	4,795.96	3/4	4,465.50	3/4	4,118.54	3/4	3,755.08	3/4	3,379.53	3/4	3,002.41	3/4	2,624.54
6		6		6		6	4,789.24	6	4,458.44	6	4,111.14	6	3,747.33	6	3,371.69	6	2,994.53	6	2,616.66
1/4		1/4		1/4		1/4	4,782.52	1/4	4,451.38	1/4	4,103.73	1/4	3,739.58	1/4	3,363.85	1/4	2,986.66	1/4	2,608.79
1/2		1/2		1/2		1/2	4,775.80	1/2	4,444.31	1/2	4,096.32	1/2	3,731.83	1/2	3,356.01	1/2	2,978.79	1/2	2,600.92
3/4		3/4		3/4		3/4	4,769.05	3/4	4,437.22	3/4	4,088.89	3/4	3,724.05	3/4	3,348.18	3/4	2,970.92	3/4	2,593.05
7		7		7		7	4,762.30	7	4,430.13	7	4,081.45	7	3,716.27	7	3,340.34	7	2,963.04	7	2,585.17
1/4		1/4		1/4		1/4	4,755.55	1/4	4,423.04	1/4	4,074.02	1/4	3,708.49	1/4	3,332.50	1/4	2,955.17	1/4	2,577.30
1/2		1/2		1/2		1/2	4,748.80	1/2	4,415.95	1/2	4,066.58	1/2	3,700.71	1/2	3,324.66	1/2	2,947.30	1/2	2,569.43
3/4		3/4		3/4		3/4	4,742.03	3/4	4,408.82	3/4	4,059.12	3/4	3,692.91	3/4	3,316.83	3/4	2,939.43	3/4	2,561.56
8		8		8		8	4,735.25	8	4,401.70	8	4,051.65	8	3,685.10	8	3,308.99	8	2,931.56	8	2,553.69
1/4		1/4		1/4		1/4	4,728.47	1/4	4,394.58	1/4	4,044.19	1/4	3,677.29	1/4	3,301.15	1/4	2,923.68	1/4	2,545.81
1/2		1/2		1/2		1/2	4,721.69	1/2	4,387.46	1/2	4,036.72	1/2	3,669.48	1/2	3,293.32	1/2	2,915.81	1/2	2,537.94
3/4		3/4		3/4		3/4	4,714.89	3/4	4,380.31	3/4	4,029.23	3/4	3,661.65	3/4	3,285.48	3/4	2,907.94	3/4	2,530.07
9		9		9		9	4,708.08	9	4,373.16	9	4,021.73	9	3,653.82	9	3,277.64	9	2,900.07	9	2,522.20
1/4		1/4		1/4		1/4	4,701.27	1/4	4,366.01	1/4	4,014.24	1/4	3,645.99	1/4	3,269.80	1/4	2,892.19	1/4	2,514.32
1/2		1/2		1/2		1/2	4,694.46	1/2	4,358.86	1/2	4,006.75	1/2	3,638.16	1/2	3,261.97	1/2	2,884.32	1/2	2,506.45
3/4		3/4		3/4		3/4	4,687.63	3/4	4,351.68	3/4	3,999.22	3/4	3,630.32	3/4	3,254.13	3/4	2,876.45	3/4	2,498.58
10		10		10		10	4,680.79	10	4,344.50	10	3,991.70	10	3,622.49	10	3,246.29	10	2,868.58	10	2,490.71
1/4		1/4		1/4		1/4	4,673.95	1/4	4,337.32	1/4	3,984.18	1/4	3,614.65	1/4	3,238.45	1/4	2,860.70	1/4	2,482.83
1/2		1/2		1/2		1/2	4,667.12	1/2	4,330.14	1/2	3,976.66	1/2	3,606.81	1/2	3,230.62	1/2	2,852.83	1/2	2,474.96
3/4		3/4		3/4		3/4	4,660.25	3/4	4,322.93	3/4	3,969.10	3/4	3,598.97	3/4	3,222.77	3/4	2,844.96	3/4	2,467.09
11		11		11		11	4,653.39	11	4,315.72	11	3,961.55	11	3,591.14	11	3,214.91	11	2,837.09	11	2,459.22
1/4		1/4		1/4		1/4	4,646.52	1/4	4,308.51	1/4	3,954.00	1/4	3,583.30	1/4	3,207.06	1/4	2,829.22	1/4	2,451.35
1/2		1/2		1/2		1/2	4,639.65	1/2	4,301.30	1/2	3,946.45	1/2	3,575.46	1/2	3,199.21	1/2	2,821.34	1/2	2,443.47
3/4		3/4		3/4		3/4	4,632.76	3/4	4,294.06	3/4	3,938.86	3/4	3,567.62	3/4	3,191.34	3/4	2,813.47	3/4	2,435.60

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 51'-09" FORWARD OF AFT BULKHEAD.

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

BARGE "KIRBY 29112"

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	2,427.73	0	2,049.86	0	1,671.99	0	1,294.12	0	916.53	0	538.79	0	189.38	0		0		0	
1/4	2,419.86	1/4	2,041.99	1/4	1,664.12	1/4	1,286.24	1/4	908.67	1/4	530.93	1/4	182.75	1/4		1/4		1/4	
1/2	2,411.98	1/2	2,034.11	1/2	1,656.24	1/2	1,278.37	1/2	900.81	1/2	523.07	1/2	176.12	1/2		1/2		1/2	
3/4	2,404.11	3/4	2,026.24	3/4	1,648.37	3/4	1,270.50	3/4	892.95	3/4	515.26	3/4	169.61	3/4		3/4		3/4	
1	2,396.24	1	2,018.37	1	1,640.50	1	1,262.63	1	885.09	1	507.44	1	163.09	1		1		1	
1/4	2,388.37	1/4	2,010.50	1/4	1,632.63	1/4	1,254.76	1/4	877.23	1/4	499.63	1/4	156.57	1/4		1/4		1/4	
1/2	2,380.49	1/2	2,002.62	1/2	1,624.75	1/2	1,246.88	1/2	869.37	1/2	491.82	1/2	150.06	1/2		1/2		1/2	
3/4	2,372.62	3/4	1,994.75	3/4	1,616.88	3/4	1,239.01	3/4	861.51	3/4	484.09	3/4	143.66	3/4		3/4		3/4	
2	2,364.75	2	1,986.88	2	1,609.01	2	1,231.14	2	853.64	2	476.37	2	137.26	2		2		2	
1/4	2,356.88	1/4	1,979.01	1/4	1,601.14	1/4	1,223.27	1/4	845.78	1/4	468.65	1/4	130.86	1/4		1/4		1/4	
1/2	2,349.01	1/2	1,971.14	1/2	1,593.26	1/2	1,215.39	1/2	837.91	1/2	460.93	1/2	124.46	1/2		1/2		1/2	
3/4	2,341.13	3/4	1,963.26	3/4	1,585.39	3/4	1,207.52	3/4	830.04	3/4	453.32	3/4	118.18	3/4		3/4		3/4	
3	2,333.26	3	1,955.39	3	1,577.52	3	1,199.65	3	822.17	3	445.70	3	111.90	3		3		3	
1/4	2,325.39	1/4	1,947.52	1/4	1,569.65	1/4	1,191.78	1/4	814.30	1/4	438.09	1/4	105.62	1/4		1/4		1/4	
1/2	2,317.52	1/2	1,939.65	1/2	1,561.78	1/2	1,183.91	1/2	806.43	1/2	430.48	1/2	99.34	1/2		1/2		1/2	
3/4	2,309.64	3/4	1,931.77	3/4	1,553.90	3/4	1,176.03	3/4	798.55	3/4	422.98	3/4	93.19	3/4		3/4		3/4	
4	2,301.77	4	1,923.90	4	1,546.03	4	1,168.16	4	790.68	4	415.47	4	87.04	4		4		4	
1/4	2,293.90	1/4	1,916.03	1/4	1,538.16	1/4	1,160.29	1/4	782.81	1/4	407.97	1/4	80.89	1/4		1/4		1/4	
1/2	2,286.03	1/2	1,908.16	1/2	1,530.29	1/2	1,152.42	1/2	774.94	1/2	400.47	1/2	74.74	1/2		1/2		1/2	
3/4	2,278.15	3/4	1,900.28	3/4	1,522.41	3/4	1,144.54	3/4	767.06	3/4	393.07	3/4	68.73	3/4		3/4		3/4	
5	2,270.28	5	1,892.41	5	1,514.54	5	1,136.67	5	759.19	5	385.68	5	62.72	5		5		5	
1/4	2,262.41	1/4	1,884.54	1/4	1,506.67	1/4	1,128.80	1/4	751.32	1/4	378.29	1/4	56.71	1/4		1/4		1/4	
1/2	2,254.54	1/2	1,876.67	1/2	1,498.80	1/2	1,120.93	1/2	743.45	1/2	370.89	1/2	50.70	1/2		1/2		1/2	
3/4	2,246.67	3/4	1,868.80	3/4	1,490.92	3/4	1,113.06	3/4	735.58	3/4	363.61	3/4	45.29	3/4		3/4		3/4	
6	2,238.79	6	1,860.92	6	1,483.05	6	1,105.19	6	727.70	6	356.32	6	39.87	6		6		6	
1/4	2,230.92	1/4	1,853.05	1/4	1,475.18	1/4	1,097.32	1/4	719.83	1/4	349.04	1/4	34.45	1/4		1/4		1/4	
1/2	2,223.05	1/2	1,845.18	1/2	1,467.31	1/2	1,089.46	1/2	711.96	1/2	341.76	1/2	29.04	1/2		1/2		1/2	
3/4	2,215.18	3/4	1,837.31	3/4	1,459.44	3/4	1,081.60	3/4	704.09	3/4	334.58	3/4	25.07	3/4		3/4		3/4	
7	2,207.30	7	1,829.43	7	1,451.56	7	1,073.74	7	696.22	7	327.41	7	21.11	7		7		7	
1/4	2,199.43	1/4	1,821.56	1/4	1,443.69	1/4	1,065.88	1/4	688.34	1/4	320.23	1/4	17.15	1/4		1/4		1/4	
1/2	2,191.56	1/2	1,813.69	1/2	1,435.82	1/2	1,058.02	1/2	680.47	1/2	313.06	1/2	13.18	1/2		1/2		1/2	
3/4	2,183.69	3/4	1,805.82	3/4	1,427.95	3/4	1,050.16	3/4	672.60	3/4	305.99	3/4		3/4		3/4		3/4	
8	2,175.81	8	1,797.94	8	1,420.07	8	1,042.30	8	664.73	8	298.93	8		8		8		8	
1/4	2,167.94	1/4	1,790.07	1/4	1,412.20	1/4	1,034.44	1/4	656.86	1/4	291.86	1/4		1/4		1/4		1/4	
1/2	2,160.07	1/2	1,782.20	1/2	1,404.33	1/2	1,026.58	1/2	648.98	1/2	284.80	1/2		1/2		1/2		1/2	
3/4	2,152.20	3/4	1,774.33	3/4	1,396.46	3/4	1,018.71	3/4	641.11	3/4	277.84	3/4		3/4		3/4		3/4	
9	2,144.33	9	1,766.46	9	1,388.58	9	1,010.85	9	633.24	9	270.88	9		9		9		9	
1/4	2,136.45	1/4	1,758.58	1/4	1,380.71	1/4	1,002.99	1/4	625.37	1/4	263.93	1/4		1/4		1/4		1/4	
1/2	2,128.58	1/2	1,750.71	1/2	1,372.84	1/2	995.13	1/2	617.50	1/2	256.97	1/2		1/2		1/2		1/2	
3/4	2,120.71	3/4	1,742.84	3/4	1,364.97	3/4	987.27	3/4	609.62	3/4	250.12	3/4		3/4		3/4		3/4	
10	2,112.84	10	1,734.97	10	1,357.10	10	979.41	10	601.75	10	243.28	10		10		10		10	
1/4	2,104.96	1/4	1,727.09	1/4	1,349.22	1/4	971.55	1/4	593.88	1/4	236.43	1/4		1/4		1/4		1/4	
1/2	2,097.09	1/2	1,719.22	1/2	1,341.35	1/2	963.69	1/2	586.01	1/2	229.58	1/2		1/2		1/2		1/2	
3/4	2,089.22	3/4	1,711.35	3/4	1,333.48	3/4	955.83	3/4	578.13	3/4	222.85	3/4		3/4		3/4		3/4	
11	2,081.35	11	1,703.48	11	1,325.61	11	947.97	11	570.26	11	216.11	11		11		11		11	
1/4	2,073.47	1/4	1,695.60	1/4	1,317.73	1/4	940.11	1/4	562.39	1/4	209.37	1/4		1/4		1/4		1/4	
1/2	2,065.60	1/2	1,687.73	1/2	1,309.86	1/2	932.25	1/2	554.52	1/2	202.63	1/2		1/2		1/2		1/2	
3/4	2,057.73	3/4	1,679.86	3/4	1,301.99	3/4	924.39	3/4	546.66	3/4	196.01	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/27/2013 CL - SW
CALCULATED: 03/27/2013 CL
PRINTED: 03/27/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2013

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

BARGE "KIRBY 29112"

2 PORT

ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 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		0	4,456.74	0	4,133.52	0	3,795.15	0	3,442.08	0	3,084.36	0	2,725.19
1/4		1/4		1/4		1/4	4,767.27	1/4	4,450.16	1/4	4,126.62	1/4	3,787.94	1/4	3,434.63	1/4	3,076.88	1/4	2,717.71
1/2		1/2		1/2		1/2	4,762.16	1/2	4,443.58	1/2	4,119.72	1/2	3,780.72	1/2	3,427.18	1/2	3,069.39	1/2	2,710.22
3/4		3/4		3/4		3/4	4,757.05	3/4	4,437.00	3/4	4,112.81	3/4	3,773.51	3/4	3,419.73	3/4	3,061.91	3/4	2,702.74
1		1		1		1	4,750.70	1	4,430.39	1	4,105.89	1	3,766.27	1	3,412.27	1	3,054.43	1	2,695.26
1/4		1/4		1/4		1/4	4,744.36	1/4	4,423.79	1/4	4,098.97	1/4	3,759.02	1/4	3,404.82	1/4	3,046.94	1/4	2,687.77
1/2		1/2		1/2		1/2	4,738.02	1/2	4,417.18	1/2	4,092.04	1/2	3,751.78	1/2	3,397.37	1/2	3,039.46	1/2	2,680.29
3/4		3/4		3/4		3/4	4,731.67	3/4	4,410.57	3/4	4,085.12	3/4	3,744.54	3/4	3,389.92	3/4	3,031.98	3/4	2,672.81
2		2		2		2	4,724.44	2	4,403.94	2	4,078.17	2	3,737.27	2	3,382.47	2	3,024.50	2	2,665.33
1/4		1/4		1/4		1/4	4,717.21	1/4	4,397.30	1/4	4,071.22	1/4	3,730.01	1/4	3,375.02	1/4	3,017.01	1/4	2,657.84
1/2		1/2		1/2		1/2	4,709.98	1/2	4,390.67	1/2	4,064.27	1/2	3,722.74	1/2	3,367.57	1/2	3,009.53	1/2	2,650.36
3/4		3/4		3/4		3/4	4,702.75	3/4	4,384.03	3/4	4,057.33	3/4	3,715.48	3/4	3,360.12	3/4	3,002.05	3/4	2,642.88
3		3		3		3	4,695.30	3	4,377.37	3	4,050.35	3	3,708.19	3	3,352.67	3	2,994.57	3	2,635.40
1/4		1/4		1/4		1/4	4,687.85	1/4	4,370.71	1/4	4,043.37	1/4	3,700.90	1/4	3,345.22	1/4	2,987.08	1/4	2,627.91
1/2		1/2		1/2		1/2	4,680.40	1/2	4,364.05	1/2	4,036.40	1/2	3,693.61	1/2	3,337.77	1/2	2,979.60	1/2	2,620.43
3/4		3/4		3/4		3/4	4,672.95	3/4	4,357.39	3/4	4,029.42	3/4	3,686.31	3/4	3,330.32	3/4	2,972.12	3/4	2,612.95
4		4		4		4	4,665.90	4	4,350.71	4	4,022.42	4	3,679.00	4	3,322.87	4	2,964.63	4	2,605.47
1/4		1/4		1/4		1/4	4,658.84	1/4	4,344.02	1/4	4,015.42	1/4	3,671.68	1/4	3,315.42	1/4	2,957.15	1/4	2,597.98
1/2		1/2		1/2		1/2	4,651.79	1/2	4,337.33	1/2	4,008.41	1/2	3,664.36	1/2	3,307.97	1/2	2,949.67	1/2	2,590.50
3/4		3/4		3/4		3/4	4,644.74	3/4	4,330.64	3/4	4,001.41	3/4	3,657.04	3/4	3,300.52	3/4	2,942.19	3/4	2,583.02
5		5		5		5	4,638.34	5	4,323.93	5	3,994.38	5	3,649.70	5	3,293.07	5	2,934.70	5	2,575.53
1/4		1/4		1/4		1/4	4,631.94	1/4	4,317.22	1/4	3,987.35	1/4	3,642.36	1/4	3,285.61	1/4	2,927.22	1/4	2,568.05
1/2		1/2		1/2		1/2	4,625.54	1/2	4,310.50	1/2	3,980.33	1/2	3,635.01	1/2	3,278.16	1/2	2,919.74	1/2	2,560.57
3/4		3/4		3/4		3/4	4,619.14	3/4	4,303.79	3/4	3,973.30	3/4	3,627.67	3/4	3,270.71	3/4	2,912.26	3/4	2,553.09
6		6		6		6	4,612.72	6	4,297.05	6	3,966.24	6	3,620.30	6	3,263.26	6	2,904.77	6	2,545.60
1/4		1/4		1/4		1/4	4,606.29	1/4	4,290.31	1/4	3,959.19	1/4	3,612.93	1/4	3,255.81	1/4	2,897.29	1/4	2,538.12
1/2		1/2		1/2		1/2	4,599.87	1/2	4,283.57	1/2	3,952.13	1/2	3,605.56	1/2	3,248.36	1/2	2,889.81	1/2	2,530.64
3/4		3/4		3/4		3/4	4,593.44	3/4	4,276.83	3/4	3,945.08	3/4	3,598.18	3/4	3,240.91	3/4	2,882.32	3/4	2,523.16
7		7		7		7	4,586.99	7	4,270.06	7	3,937.99	7	3,590.79	7	3,233.46	7	2,874.84	7	2,515.67
1/4		1/4		1/4		1/4	4,580.54	1/4	4,263.29	1/4	3,930.91	1/4	3,583.39	1/4	3,226.01	1/4	2,867.36	1/4	2,508.19
1/2		1/2		1/2		1/2	4,574.08	1/2	4,256.53	1/2	3,923.83	1/2	3,575.99	1/2	3,218.56	1/2	2,859.88	1/2	2,500.71
3/4		3/4		3/4		3/4	4,567.63	3/4	4,249.76	3/4	3,916.75	3/4	3,568.60	3/4	3,211.11	3/4	2,852.39	3/4	2,493.22
8		8		8		8	4,561.15	8	4,242.97	8	3,909.64	8	3,561.17	8	3,203.66	8	2,844.91	8	2,485.74
1/4		1/4		1/4		1/4	4,554.67	1/4	4,236.17	1/4	3,902.53	1/4	3,553.75	1/4	3,196.21	1/4	2,837.43	1/4	2,478.26
1/2		1/2		1/2		1/2	4,548.20	1/2	4,229.38	1/2	3,895.42	1/2	3,546.33	1/2	3,188.76	1/2	2,829.95	1/2	2,470.78
3/4		3/4		3/4		3/4	4,541.72	3/4	4,222.58	3/4	3,888.31	3/4	3,538.90	3/4	3,181.31	3/4	2,822.46	3/4	2,463.29
9		9		9		9	4,535.21	9	4,215.76	9	3,881.18	9	3,531.46	9	3,173.86	9	2,814.98	9	2,455.81
1/4		1/4		1/4		1/4	4,528.70	1/4	4,208.94	1/4	3,874.04	1/4	3,524.02	1/4	3,166.40	1/4	2,807.50	1/4	2,448.33
1/2		1/2		1/2		1/2	4,522.20	1/2	4,202.12	1/2	3,866.91	1/2	3,516.57	1/2	3,158.95	1/2	2,800.02	1/2	2,440.85
3/4		3/4		3/4		3/4	4,515.69	3/4	4,195.30	3/4	3,859.77	3/4	3,509.13	3/4	3,151.50	3/4	2,792.53	3/4	2,433.36
10		10		10		10	4,509.16	10	4,188.46	10	3,852.61	10	3,501.68	10	3,144.05	10	2,785.05	10	2,425.88
1/4		1/4		1/4		1/4	4,502.63	1/4	4,181.61	1/4	3,845.45	1/4	3,494.23	1/4	3,136.60	1/4	2,777.57	1/4	2,418.40
1/2		1/2		1/2		1/2	4,496.10	1/2	4,174.76	1/2	3,838.29	1/2	3,486.78	1/2	3,129.15	1/2	2,770.08	1/2	2,410.91
3/4		3/4		3/4		3/4	4,489.57	3/4	4,167.91	3/4	3,831.13	3/4	3,479.33	3/4	3,121.70	3/4	2,762.60	3/4	2,403.43
11		11		11		11	4,483.01	11	4,161.04	11	3,823.94	11	3,471.88	11	3,114.24	11	2,755.12	11	2,395.95
1/4		1/4		1/4		1/4	4,476.45	1/4	4,154.17	1/4	3,816.75	1/4	3,464.43	1/4	3,106.77	1/4	2,747.64	1/4	2,388.47
1/2		1/2		1/2		1/2	4,469.89	1/2	4,147.29	1/2	3,809.56	1/2	3,456.98	1/2	3,099.31	1/2	2,740.15	1/2	2,380.98
3/4		3/4		3/4		3/4	4,463.33	3/4	4,140.42	3/4	3,802.37	3/4	3,449.53	3/4	3,091.84	3/4	2,732.67	3/4	2,373.50

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 51'-09" FORWARD OF AFT BULKHEAD.

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

BARGE "KIRBY 29112"

2 PORT

ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 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	2,366.02	0	2,006.85	0	1,647.68	0	1,297.14	0	952.18	0	594.68	0	235.52	0		0		0	
1/4	2,358.54	1/4	1,999.37	1/4	1,640.20	1/4	1,289.94	1/4	945.00	1/4	587.20	1/4	228.04	1/4		1/4		1/4	
1/2	2,351.05	1/2	1,991.88	1/2	1,632.71	1/2	1,282.74	1/2	937.82	1/2	579.72	1/2	220.56	1/2		1/2		1/2	
3/4	2,343.57	3/4	1,984.40	3/4	1,625.23	3/4	1,275.54	3/4	930.64	3/4	572.24	3/4	213.08	3/4		3/4		3/4	
1	2,336.09	1	1,976.92	1	1,617.75	1	1,268.34	1	923.35	1	564.75	1	205.60	1		1		1	
1/4	2,328.61	1/4	1,969.44	1/4	1,610.27	1/4	1,261.14	1/4	916.05	1/4	557.27	1/4	198.12	1/4		1/4		1/4	
1/2	2,321.12	1/2	1,961.95	1/2	1,602.78	1/2	1,253.94	1/2	908.76	1/2	549.79	1/2	190.64	1/2		1/2		1/2	
3/4	2,313.64	3/4	1,954.47	3/4	1,595.30	3/4	1,246.74	3/4	901.47	3/4	542.31	3/4	183.15	3/4		3/4		3/4	
2	2,306.16	2	1,946.99	2	1,587.82	2	1,239.54	2	893.98	2	534.82	2	175.68	2		2		2	
1/4	2,298.67	1/4	1,939.50	1/4	1,580.34	1/4	1,232.34	1/4	886.50	1/4	527.34	1/4	168.21	1/4		1/4		1/4	
1/2	2,291.19	1/2	1,932.02	1/2	1,572.85	1/2	1,225.14	1/2	879.02	1/2	519.86	1/2	160.73	1/2		1/2		1/2	
3/4	2,283.71	3/4	1,924.54	3/4	1,565.37	3/4	1,217.94	3/4	871.54	3/4	512.38	3/4	153.26	3/4		3/4		3/4	
3	2,276.23	3	1,917.06	3	1,557.89	3	1,210.75	3	864.05	3	504.89	3	145.80	3		3		3	
1/4	2,268.74	1/4	1,909.57	1/4	1,550.40	1/4	1,203.55	1/4	856.57	1/4	497.41	1/4	138.33	1/4		1/4		1/4	
1/2	2,261.26	1/2	1,902.09	1/2	1,542.92	1/2	1,196.36	1/2	849.09	1/2	489.93	1/2	130.87	1/2		1/2		1/2	
3/4	2,253.78	3/4	1,894.61	3/4	1,535.44	3/4	1,189.16	3/4	841.61	3/4	482.45	3/4	123.41	3/4		3/4		3/4	
4	2,246.30	4	1,887.13	4	1,528.06	4	1,181.98	4	834.12	4	474.96	4	115.96	4		4		4	
1/4	2,238.81	1/4	1,879.64	1/4	1,520.68	1/4	1,174.79	1/4	826.64	1/4	467.48	1/4	108.52	1/4		1/4		1/4	
1/2	2,231.33	1/2	1,872.16	1/2	1,513.31	1/2	1,167.60	1/2	819.16	1/2	460.00	1/2	101.07	1/2		1/2		1/2	
3/4	2,223.85	3/4	1,864.68	3/4	1,505.93	3/4	1,160.41	3/4	811.68	3/4	452.52	3/4	93.63	3/4		3/4		3/4	
5	2,216.36	5	1,857.20	5	1,498.73	5	1,153.23	5	804.19	5	445.03	5	86.21	5		5		5	
1/4	2,208.88	1/4	1,849.71	1/4	1,491.53	1/4	1,146.05	1/4	796.71	1/4	437.55	1/4	78.80	1/4		1/4		1/4	
1/2	2,201.40	1/2	1,842.23	1/2	1,484.33	1/2	1,138.86	1/2	789.23	1/2	430.07	1/2	71.39	1/2		1/2		1/2	
3/4	2,193.92	3/4	1,834.75	3/4	1,477.13	3/4	1,131.68	3/4	781.75	3/4	422.59	3/4	63.97	3/4		3/4		3/4	
6	2,186.43	6	1,827.26	6	1,469.93	6	1,124.50	6	774.26	6	415.10	6	57.02	6		6		6	
1/4	2,178.95	1/4	1,819.78	1/4	1,462.73	1/4	1,117.32	1/4	766.78	1/4	407.62	1/4	50.07	1/4		1/4		1/4	
1/2	2,171.47	1/2	1,812.30	1/2	1,455.53	1/2	1,110.14	1/2	759.30	1/2	400.14	1/2	43.11	1/2		1/2		1/2	
3/4	2,163.99	3/4	1,804.82	3/4	1,448.33	3/4	1,102.96	3/4	751.82	3/4	392.66	3/4	36.16	3/4		3/4		3/4	
7	2,156.50	7	1,797.33	7	1,441.13	7	1,095.78	7	744.33	7	385.17	7	30.86	7		7		7	
1/4	2,149.02	1/4	1,789.85	1/4	1,433.93	1/4	1,088.60	1/4	736.85	1/4	377.69	1/4	25.56	1/4		1/4		1/4	
1/2	2,141.54	1/2	1,782.37	1/2	1,426.73	1/2	1,081.42	1/2	729.37	1/2	370.21	1/2	20.26	1/2		1/2		1/2	
3/4	2,134.05	3/4	1,774.89	3/4	1,419.53	3/4	1,074.24	3/4	721.89	3/4	362.73	3/4	14.97	3/4		3/4		3/4	
8	2,126.57	8	1,767.40	8	1,412.33	8	1,067.06	8	714.40	8	355.24	8		8		8		8	
1/4	2,119.09	1/4	1,759.92	1/4	1,405.14	1/4	1,059.88	1/4	706.92	1/4	347.76	1/4		1/4		1/4		1/4	
1/2	2,111.61	1/2	1,752.44	1/2	1,397.94	1/2	1,052.70	1/2	699.44	1/2	340.28	1/2		1/2		1/2		1/2	
3/4	2,104.12	3/4	1,744.95	3/4	1,390.74	3/4	1,045.52	3/4	691.96	3/4	332.80	3/4		3/4		3/4		3/4	
9	2,096.64	9	1,737.47	9	1,383.54	9	1,038.34	9	684.47	9	325.31	9		9		9		9	
1/4	2,089.16	1/4	1,729.99	1/4	1,376.34	1/4	1,031.16	1/4	676.99	1/4	317.83	1/4		1/4		1/4		1/4	
1/2	2,081.68	1/2	1,722.51	1/2	1,369.14	1/2	1,023.98	1/2	669.51	1/2	310.35	1/2		1/2		1/2		1/2	
3/4	2,074.19	3/4	1,715.02	3/4	1,361.94	3/4	1,016.80	3/4	662.03	3/4	302.87	3/4		3/4		3/4		3/4	
10	2,066.71	10	1,707.54	10	1,354.74	10	1,009.62	10	654.54	10	295.38	10		10		10		10	
1/4	2,059.23	1/4	1,700.06	1/4	1,347.54	1/4	1,002.44	1/4	647.06	1/4	287.90	1/4		1/4		1/4		1/4	
1/2	2,051.75	1/2	1,692.58	1/2	1,340.34	1/2	995.26	1/2	639.58	1/2	280.42	1/2		1/2		1/2		1/2	
3/4	2,044.26	3/4	1,685.09	3/4	1,333.14	3/4	988.08	3/4	632.10	3/4	272.94	3/4		3/4		3/4		3/4	
11	2,036.78	11	1,677.61	11	1,325.94	11	980.90	11	624.61	11	265.45	11		11		11		11	
1/4	2,029.30	1/4	1,670.13	1/4	1,318.74	1/4	973.72	1/4	617.13	1/4	257.97	1/4		1/4		1/4		1/4	
1/2	2,021.81	1/2	1,662.64	1/2	1,311.54	1/2	966.54	1/2	609.65	1/2	250.49	1/2		1/2		1/2		1/2	
3/4	2,014.33	3/4	1,655.16	3/4	1,304.34	3/4	959.36	3/4	602.17	3/4	243.01	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/27/2013 CL - SW
CALCULATED: 03/27/2013 CL
PRINTED: 03/27/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2013

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

BARGE "KIRBY 29112"

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	4,793.72	0	4,476.45	0	4,152.75	0	3,813.91	0	3,460.42	0	3,102.52	0	2,743.17
1/4		1/4		1/4		1/4	4,788.60	1/4	4,469.87	1/4	4,145.85	1/4	3,806.69	1/4	3,452.97	1/4	3,095.03	1/4	2,735.68
1/2		1/2		1/2		1/2	4,783.49	1/2	4,463.28	1/2	4,138.94	1/2	3,799.47	1/2	3,445.52	1/2	3,087.54	1/2	2,728.20
3/4		3/4		3/4		3/4	4,777.14	3/4	4,456.67	3/4	4,132.01	3/4	3,792.22	3/4	3,438.06	3/4	3,080.06	3/4	2,720.71
1		1		1		1	4,770.79	1	4,450.06	1	4,125.09	1	3,784.98	1	3,430.61	1	3,072.57	1	2,713.22
1/4		1/4		1/4		1/4	4,764.45	1/4	4,443.45	1/4	4,118.16	1/4	3,777.73	1/4	3,423.15	1/4	3,065.08	1/4	2,705.74
1/2		1/2		1/2		1/2	4,758.10	1/2	4,436.84	1/2	4,111.23	1/2	3,770.49	1/2	3,415.70	1/2	3,057.60	1/2	2,698.25
3/4		3/4		3/4		3/4	4,750.87	3/4	4,430.20	3/4	4,104.28	3/4	3,763.22	3/4	3,408.24	3/4	3,050.11	3/4	2,690.76
2		2		2		2	4,743.63	2	4,423.57	2	4,097.33	2	3,755.95	2	3,400.79	2	3,042.63	2	2,683.28
1/4		1/4		1/4		1/4	4,736.40	1/4	4,416.93	1/4	4,090.38	1/4	3,748.68	1/4	3,393.34	1/4	3,035.14	1/4	2,675.79
1/2		1/2		1/2		1/2	4,729.16	1/2	4,410.29	1/2	4,083.43	1/2	3,741.41	1/2	3,385.88	1/2	3,027.65	1/2	2,668.31
3/4		3/4		3/4		3/4	4,721.71	3/4	4,403.63	3/4	4,076.45	3/4	3,734.12	3/4	3,378.43	3/4	3,020.17	3/4	2,660.82
3		3		3		3	4,714.26	3	4,396.96	3	4,069.47	3	3,726.82	3	3,370.97	3	3,012.68	3	2,653.33
1/4		1/4		1/4		1/4	4,706.80	1/4	4,390.30	1/4	4,062.49	1/4	3,719.53	1/4	3,363.52	1/4	3,005.19	1/4	2,645.85
1/2		1/2		1/2		1/2	4,699.35	1/2	4,383.64	1/2	4,055.51	1/2	3,712.24	1/2	3,356.07	1/2	2,997.71	1/2	2,638.36
3/4		3/4		3/4		3/4	4,692.29	3/4	4,376.95	3/4	4,048.50	3/4	3,704.91	3/4	3,348.61	3/4	2,990.22	3/4	2,630.87
4		4		4		4	4,685.23	4	4,370.26	4	4,041.50	4	3,697.59	4	3,341.16	4	2,982.73	4	2,623.39
1/4		1/4		1/4		1/4	4,678.18	1/4	4,363.57	1/4	4,034.49	1/4	3,690.27	1/4	3,333.70	1/4	2,975.25	1/4	2,615.90
1/2		1/2		1/2		1/2	4,671.12	1/2	4,356.87	1/2	4,027.49	1/2	3,682.95	1/2	3,326.25	1/2	2,967.76	1/2	2,608.41
3/4		3/4		3/4		3/4	4,664.72	3/4	4,350.16	3/4	4,020.45	3/4	3,675.60	3/4	3,318.79	3/4	2,960.28	3/4	2,600.93
5		5		5		5	4,658.32	5	4,343.44	5	4,013.42	5	3,668.25	5	3,311.34	5	2,952.79	5	2,593.44
1/4		1/4		1/4		1/4	4,651.92	1/4	4,336.73	1/4	4,006.39	1/4	3,660.91	1/4	3,303.89	1/4	2,945.30	1/4	2,585.96
1/2		1/2		1/2		1/2	4,645.51	1/2	4,330.01	1/2	3,999.36	1/2	3,653.56	1/2	3,296.43	1/2	2,937.82	1/2	2,578.47
3/4		3/4		3/4		3/4	4,639.09	3/4	4,323.26	3/4	3,992.30	3/4	3,646.19	3/4	3,288.98	3/4	2,930.33	3/4	2,570.98
6		6		6		6	4,632.66	6	4,316.52	6	3,985.24	6	3,638.81	6	3,281.52	6	2,922.84	6	2,563.50
1/4		1/4		1/4		1/4	4,626.23	1/4	4,309.78	1/4	3,978.18	1/4	3,631.44	1/4	3,274.07	1/4	2,915.36	1/4	2,556.01
1/2		1/2		1/2		1/2	4,619.80	1/2	4,303.03	1/2	3,971.12	1/2	3,624.06	1/2	3,266.62	1/2	2,907.87	1/2	2,548.52
3/4		3/4		3/4		3/4	4,613.34	3/4	4,296.26	3/4	3,964.04	3/4	3,616.66	3/4	3,259.16	3/4	2,900.38	3/4	2,541.04
7		7		7		7	4,606.89	7	4,289.49	7	3,956.95	7	3,609.26	7	3,251.71	7	2,892.90	7	2,533.55
1/4		1/4		1/4		1/4	4,600.43	1/4	4,282.72	1/4	3,949.87	1/4	3,601.86	1/4	3,244.25	1/4	2,885.41	1/4	2,526.06
1/2		1/2		1/2		1/2	4,593.98	1/2	4,275.95	1/2	3,942.78	1/2	3,594.46	1/2	3,236.80	1/2	2,877.92	1/2	2,518.58
3/4		3/4		3/4		3/4	4,587.50	3/4	4,269.16	3/4	3,935.67	3/4	3,587.03	3/4	3,229.34	3/4	2,870.44	3/4	2,511.09
8		8		8		8	4,581.01	8	4,262.36	8	3,928.56	8	3,579.61	8	3,221.89	8	2,862.95	8	2,503.60
1/4		1/4		1/4		1/4	4,574.53	1/4	4,255.56	1/4	3,921.44	1/4	3,572.18	1/4	3,214.44	1/4	2,855.47	1/4	2,496.12
1/2		1/2		1/2		1/2	4,568.05	1/2	4,248.76	1/2	3,914.33	1/2	3,564.75	1/2	3,206.98	1/2	2,847.98	1/2	2,488.63
3/4		3/4		3/4		3/4	4,561.54	3/4	4,241.94	3/4	3,907.19	3/4	3,557.30	3/4	3,199.53	3/4	2,840.49	3/4	2,481.15
9		9		9		9	4,555.03	9	4,235.12	9	3,900.05	9	3,549.86	9	3,192.07	9	2,833.01	9	2,473.66
1/4		1/4		1/4		1/4	4,548.52	1/4	4,228.29	1/4	3,892.92	1/4	3,542.41	1/4	3,184.62	1/4	2,825.52	1/4	2,466.17
1/2		1/2		1/2		1/2	4,542.01	1/2	4,221.47	1/2	3,885.78	1/2	3,534.97	1/2	3,177.16	1/2	2,818.03	1/2	2,458.69
3/4		3/4		3/4		3/4	4,535.48	3/4	4,214.62	3/4	3,878.61	3/4	3,527.51	3/4	3,169.71	3/4	2,810.55	3/4	2,451.20
10		10		10		10	4,528.94	10	4,207.77	10	3,871.45	10	3,520.06	10	3,162.26	10	2,803.06	10	2,443.71
1/4		1/4		1/4		1/4	4,522.41	1/4	4,200.92	1/4	3,864.28	1/4	3,512.60	1/4	3,154.80	1/4	2,795.57	1/4	2,436.23
1/2		1/2		1/2		1/2	4,515.87	1/2	4,194.07	1/2	3,857.12	1/2	3,505.15	1/2	3,147.35	1/2	2,788.09	1/2	2,428.74
3/4		3/4		3/4		3/4	4,509.31	3/4	4,187.19	3/4	3,849.92	3/4	3,497.70	3/4	3,139.88	3/4	2,780.60	3/4	2,421.25
11		11		11		11	4,502.75	11	4,180.31	11	3,842.73	11	3,490.24	11	3,132.42	11	2,773.12	11	2,413.77
1/4		1/4		1/4		1/4	4,496.19	1/4	4,173.44	1/4	3,835.54	1/4	3,482.79	1/4	3,124.95	1/4	2,765.63	1/4	2,406.28
1/2		1/2		1/2		1/2	4,489.62	1/2	4,166.56	1/2	3,828.34	1/2	3,475.33	1/2	3,117.49	1/2	2,758.14	1/2	2,398.80
3/4		3/4		3/4		3/4	4,483.04	3/4	4,159.66	3/4	3,821.13	3/4	3,467.88	3/4	3,110.00	3/4	2,750.66	3/4	2,391.31

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 51'-09" FORWARD OF AFT BULKHEAD.

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

BARGE "KIRBY 29112"

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	2,383.82	0	2,024.48	0	1,665.13	0	1,305.78	0	946.72	0	587.48	0	228.15	0		0		0	
1/4	2,376.34	1/4	2,016.99	1/4	1,657.64	1/4	1,298.29	1/4	939.25	1/4	580.00	1/4	220.67	1/4		1/4		1/4	
1/2	2,368.85	1/2	2,009.50	1/2	1,650.16	1/2	1,290.81	1/2	931.77	1/2	572.51	1/2	213.18	1/2		1/2		1/2	
3/4	2,361.36	3/4	2,002.02	3/4	1,642.67	3/4	1,283.32	3/4	924.30	3/4	565.03	3/4	205.70	3/4		3/4		3/4	
1	2,353.88	1	1,994.53	1	1,635.18	1	1,275.84	1	916.82	1	557.54	1	198.21	1		1		1	
1/4	2,346.39	1/4	1,987.04	1/4	1,627.70	1/4	1,268.35	1/4	909.35	1/4	550.05	1/4	190.73	1/4		1/4		1/4	
1/2	2,338.90	1/2	1,979.56	1/2	1,620.21	1/2	1,260.86	1/2	901.87	1/2	542.57	1/2	183.24	1/2		1/2		1/2	
3/4	2,331.42	3/4	1,972.07	3/4	1,612.72	3/4	1,253.38	3/4	894.39	3/4	535.08	3/4	175.77	3/4		3/4		3/4	
2	2,323.93	2	1,964.58	2	1,605.24	2	1,245.89	2	886.92	2	527.59	2	168.29	2		2		2	
1/4	2,316.44	1/4	1,957.10	1/4	1,597.75	1/4	1,238.40	1/4	879.44	1/4	520.11	1/4	160.81	1/4		1/4		1/4	
1/2	2,308.96	1/2	1,949.61	1/2	1,590.26	1/2	1,230.92	1/2	871.96	1/2	512.62	1/2	153.33	1/2		1/2		1/2	
3/4	2,301.47	3/4	1,942.12	3/4	1,582.78	3/4	1,223.43	3/4	864.47	3/4	505.14	3/4	145.87	3/4		3/4		3/4	
3	2,293.99	3	1,934.64	3	1,575.29	3	1,215.94	3	856.98	3	497.65	3	138.40	3		3		3	
1/4	2,286.50	1/4	1,927.15	1/4	1,567.80	1/4	1,208.46	1/4	849.50	1/4	490.16	1/4	130.93	1/4		1/4		1/4	
1/2	2,279.01	1/2	1,919.67	1/2	1,560.32	1/2	1,200.97	1/2	842.01	1/2	482.68	1/2	123.47	1/2		1/2		1/2	
3/4	2,271.53	3/4	1,912.18	3/4	1,552.83	3/4	1,193.48	3/4	834.53	3/4	475.19	3/4	116.02	3/4		3/4		3/4	
4	2,264.04	4	1,904.69	4	1,545.35	4	1,186.00	4	827.04	4	467.71	4	108.57	4		4		4	
1/4	2,256.55	1/4	1,897.21	1/4	1,537.86	1/4	1,178.51	1/4	819.55	1/4	460.22	1/4	101.12	1/4		1/4		1/4	
1/2	2,249.07	1/2	1,889.72	1/2	1,530.37	1/2	1,171.03	1/2	812.07	1/2	452.73	1/2	93.67	1/2		1/2		1/2	
3/4	2,241.58	3/4	1,882.23	3/4	1,522.89	3/4	1,163.54	3/4	804.58	3/4	445.25	3/4	86.26	3/4		3/4		3/4	
5	2,234.09	5	1,874.75	5	1,515.40	5	1,156.05	5	797.09	5	437.76	5	78.84	5		5		5	
1/4	2,226.61	1/4	1,867.26	1/4	1,507.91	1/4	1,148.57	1/4	789.61	1/4	430.28	1/4	71.42	1/4		1/4		1/4	
1/2	2,219.12	1/2	1,859.77	1/2	1,500.43	1/2	1,141.08	1/2	782.12	1/2	422.79	1/2	64.00	1/2		1/2		1/2	
3/4	2,211.64	3/4	1,852.29	3/4	1,492.94	3/4	1,133.60	3/4	774.64	3/4	415.30	3/4	57.05	3/4		3/4		3/4	
6	2,204.15	6	1,844.80	6	1,485.45	6	1,126.12	6	767.15	6	407.82	6	50.09	6		6		6	
1/4	2,196.66	1/4	1,837.32	1/4	1,477.97	1/4	1,118.63	1/4	759.66	1/4	400.33	1/4	43.13	1/4		1/4		1/4	
1/2	2,189.18	1/2	1,829.83	1/2	1,470.48	1/2	1,111.15	1/2	752.18	1/2	392.85	1/2	36.17	1/2		1/2		1/2	
3/4	2,181.69	3/4	1,822.34	3/4	1,463.00	3/4	1,103.68	3/4	744.69	3/4	385.36	3/4	30.87	3/4		3/4		3/4	
7	2,174.20	7	1,814.86	7	1,455.51	7	1,096.20	7	737.21	7	377.87	7	25.57	7		7		7	
1/4	2,166.72	1/4	1,807.37	1/4	1,448.02	1/4	1,088.73	1/4	729.72	1/4	370.39	1/4	20.27	1/4		1/4		1/4	
1/2	2,159.23	1/2	1,799.88	1/2	1,440.54	1/2	1,081.26	1/2	722.23	1/2	362.90	1/2	14.97	1/2		1/2		1/2	
3/4	2,151.74	3/4	1,792.40	3/4	1,433.05	3/4	1,073.78	3/4	714.75	3/4	355.41	3/4		3/4		3/4		3/4	
8	2,144.26	8	1,784.91	8	1,425.56	8	1,066.31	8	707.26	8	347.93	8		8		8		8	
1/4	2,136.77	1/4	1,777.42	1/4	1,418.08	1/4	1,058.83	1/4	699.78	1/4	340.44	1/4		1/4		1/4		1/4	
1/2	2,129.28	1/2	1,769.94	1/2	1,410.59	1/2	1,051.36	1/2	692.29	1/2	332.96	1/2		1/2		1/2		1/2	
3/4	2,121.80	3/4	1,762.45	3/4	1,403.10	3/4	1,043.88	3/4	684.80	3/4	325.47	3/4		3/4		3/4		3/4	
9	2,114.31	9	1,754.96	9	1,395.62	9	1,036.41	9	677.32	9	317.98	9		9		9		9	
1/4	2,106.83	1/4	1,747.48	1/4	1,388.13	1/4	1,028.94	1/4	669.83	1/4	310.50	1/4		1/4		1/4		1/4	
1/2	2,099.34	1/2	1,739.99	1/2	1,380.64	1/2	1,021.46	1/2	662.34	1/2	303.01	1/2		1/2		1/2		1/2	
3/4	2,091.85	3/4	1,732.51	3/4	1,373.16	3/4	1,013.99	3/4	654.86	3/4	295.53	3/4		3/4		3/4		3/4	
10	2,084.37	10	1,725.02	10	1,365.67	10	1,006.51	10	647.37	10	288.04	10		10		10		10	
1/4	2,076.88	1/4	1,717.53	1/4	1,358.19	1/4	999.04	1/4	639.89	1/4	280.55	1/4		1/4		1/4		1/4	
1/2	2,069.39	1/2	1,710.05	1/2	1,350.70	1/2	991.57	1/2	632.40	1/2	273.07	1/2		1/2		1/2		1/2	
3/4	2,061.91	3/4	1,702.56	3/4	1,343.21	3/4	984.09	3/4	624.91	3/4	265.58	3/4		3/4		3/4		3/4	
11	2,054.42	11	1,695.07	11	1,335.73	11	976.62	11	617.43	11	258.10	11		11		11		11	
1/4	2,046.93	1/4	1,687.59	1/4	1,328.24	1/4	969.14	1/4	609.94	1/4	250.61	1/4		1/4		1/4		1/4	
1/2	2,039.45	1/2	1,680.10	1/2	1,320.75	1/2	961.67	1/2	602.46	1/2	243.12	1/2		1/2		1/2		1/2	
3/4	2,031.96	3/4	1,672.61	3/4	1,313.27	3/4	954.19	3/4	594.97	3/4	235.64	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/27/2013 CL - SW
CALCULATED: 03/27/2013 CL
PRINTED: 03/27/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2013

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

BARGE "KIRBY 29112"

3 PORT

ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	4,358.17	0	4,117.25	0	3,870.81	0	3,612.38	0	3,342.24	0	2,989.81	0	2,633.32
1/4		1/4		1/4		1/4	4,353.54	1/4	4,112.24	1/4	3,865.55	1/4	3,606.87	1/4	3,336.54	1/4	2,982.39	1/4	2,625.90
1/2		1/2		1/2		1/2	4,348.90	1/2	4,107.23	1/2	3,860.29	1/2	3,601.36	1/2	3,330.83	1/2	2,974.96	1/2	2,618.47
3/4		3/4		3/4		3/4	4,344.75	3/4	4,102.21	3/4	3,855.01	3/4	3,595.82	3/4	3,323.40	3/4	2,967.53	3/4	2,611.04
1		1		1		1	4,340.60	1	4,097.18	1	3,849.73	1	3,590.29	1	3,315.97	1	2,960.11	1	2,603.62
1/4		1/4		1/4		1/4	4,336.44	1/4	4,092.15	1/4	3,844.45	1/4	3,584.76	1/4	3,308.54	1/4	2,952.68	1/4	2,596.19
1/2		1/2		1/2		1/2	4,332.29	1/2	4,087.12	1/2	3,839.17	1/2	3,579.22	1/2	3,301.11	1/2	2,945.25	1/2	2,588.76
3/4		3/4		3/4		3/4	4,326.93	3/4	4,082.07	3/4	3,833.87	3/4	3,573.67	3/4	3,293.68	3/4	2,937.83	3/4	2,581.33
2		2		2		2	4,321.58	2	4,077.02	2	3,828.57	2	3,568.12	2	3,286.25	2	2,930.40	2	2,573.91
1/4		1/4		1/4		1/4	4,316.22	1/4	4,071.97	1/4	3,823.27	1/4	3,562.57	1/4	3,278.82	1/4	2,922.97	1/4	2,566.48
1/2		1/2		1/2		1/2	4,310.86	1/2	4,066.92	1/2	3,817.97	1/2	3,557.02	1/2	3,271.39	1/2	2,915.55	1/2	2,559.05
3/4		3/4		3/4		3/4	4,305.16	3/4	4,061.85	3/4	3,812.65	3/4	3,551.45	3/4	3,263.96	3/4	2,908.12	3/4	2,551.63
3		3		3		3	4,299.45	3	4,056.78	3	3,807.33	3	3,545.88	3	3,256.53	3	2,900.69	3	2,544.20
1/4		1/4		1/4		1/4	4,293.75	1/4	4,051.71	1/4	3,802.01	1/4	3,540.31	1/4	3,249.10	1/4	2,893.26	1/4	2,536.77
1/2		1/2		1/2		1/2	4,288.04	1/2	4,046.64	1/2	3,796.68	1/2	3,534.74	1/2	3,241.67	1/2	2,885.84	1/2	2,529.35
3/4		3/4		3/4		3/4	4,282.34	3/4	4,041.55	3/4	3,791.34	3/4	3,529.15	3/4	3,234.24	3/4	2,878.41	3/4	2,521.92
4		4		4		4	4,276.63	4	4,036.46	4	3,786.00	4	3,523.56	4	3,226.81	4	2,870.98	4	2,514.49
1/4		1/4		1/4		1/4	4,270.93	1/4	4,031.36	1/4	3,780.66	1/4	3,517.97	1/4	3,219.38	1/4	2,863.56	1/4	2,507.07
1/2		1/2		1/2		1/2	4,265.22	1/2	4,026.27	1/2	3,775.32	1/2	3,512.37	1/2	3,211.95	1/2	2,856.13	1/2	2,499.64
3/4		3/4		3/4		3/4	4,260.36	3/4	4,021.16	3/4	3,769.96	3/4	3,506.76	3/4	3,204.55	3/4	2,848.70	3/4	2,492.21
5		5		5		5	4,255.49	5	4,016.05	5	3,764.59	5	3,501.15	5	3,197.14	5	2,841.28	5	2,484.79
1/4		1/4		1/4		1/4	4,250.63	1/4	4,010.94	1/4	3,759.23	1/4	3,495.54	1/4	3,189.74	1/4	2,833.85	1/4	2,477.36
1/2		1/2		1/2		1/2	4,245.77	1/2	4,005.82	1/2	3,753.86	1/2	3,489.93	1/2	3,182.34	1/2	2,826.42	1/2	2,469.93
3/4		3/4		3/4		3/4	4,240.88	3/4	4,000.69	3/4	3,748.48	3/4	3,484.29	3/4	3,174.93	3/4	2,819.00	3/4	2,462.50
6		6		6		6	4,236.00	6	3,995.55	6	3,743.10	6	3,478.66	6	3,167.53	6	2,811.57	6	2,455.08
1/4		1/4		1/4		1/4	4,231.12	1/4	3,990.42	1/4	3,737.72	1/4	3,473.02	1/4	3,160.13	1/4	2,804.14	1/4	2,447.65
1/2		1/2		1/2		1/2	4,226.23	1/2	3,985.28	1/2	3,732.33	1/2	3,467.39	1/2	3,152.73	1/2	2,796.72	1/2	2,440.22
3/4		3/4		3/4		3/4	4,221.33	3/4	3,980.13	3/4	3,726.93	3/4	3,461.74	3/4	3,145.32	3/4	2,789.29	3/4	2,432.80
7		7		7		7	4,216.42	7	3,974.98	7	3,721.52	7	3,456.08	7	3,137.92	7	2,781.86	7	2,425.37
1/4		1/4		1/4		1/4	4,211.51	1/4	3,969.82	1/4	3,716.12	1/4	3,450.43	1/4	3,130.52	1/4	2,774.43	1/4	2,417.94
1/2		1/2		1/2		1/2	4,206.61	1/2	3,964.67	1/2	3,710.71	1/2	3,444.78	1/2	3,123.11	1/2	2,767.01	1/2	2,410.52
3/4		3/4		3/4		3/4	4,201.68	3/4	3,959.49	3/4	3,705.29	3/4	3,439.10	3/4	3,115.71	3/4	2,759.58	3/4	2,403.09
8		8		8		8	4,196.76	8	3,954.31	8	3,699.86	8	3,433.42	8	3,108.31	8	2,752.15	8	2,395.66
1/4		1/4		1/4		1/4	4,191.83	1/4	3,949.13	1/4	3,694.44	1/4	3,427.75	1/4	3,100.91	1/4	2,744.73	1/4	2,388.24
1/2		1/2		1/2		1/2	4,186.91	1/2	3,943.96	1/2	3,689.02	1/2	3,422.07	1/2	3,093.50	1/2	2,737.30	1/2	2,380.81
3/4		3/4		3/4		3/4	4,181.96	3/4	3,938.76	3/4	3,683.57	3/4	3,416.38	3/4	3,086.10	3/4	2,729.87	3/4	2,373.38
9		9		9		9	4,177.01	9	3,933.56	9	3,678.12	9	3,410.68	9	3,078.70	9	2,722.45	9	2,365.95
1/4		1/4		1/4		1/4	4,172.06	1/4	3,928.37	1/4	3,672.67	1/4	3,404.99	1/4	3,071.29	1/4	2,715.02	1/4	2,358.53
1/2		1/2		1/2		1/2	4,167.11	1/2	3,923.17	1/2	3,667.22	1/2	3,399.29	1/2	3,063.89	1/2	2,707.59	1/2	2,351.10
3/4		3/4		3/4		3/4	4,162.14	3/4	3,917.95	3/4	3,661.76	3/4	3,393.58	3/4	3,056.49	3/4	2,700.17	3/4	2,343.67
10		10		10		10	4,157.17	10	3,912.73	10	3,656.29	10	3,387.88	10	3,049.09	10	2,692.74	10	2,336.24
1/4		1/4		1/4		1/4	4,152.21	1/4	3,907.51	1/4	3,650.82	1/4	3,382.18	1/4	3,041.68	1/4	2,685.31	1/4	2,328.82
1/2		1/2		1/2		1/2	4,147.24	1/2	3,902.29	1/2	3,645.36	1/2	3,376.47	1/2	3,034.28	1/2	2,677.88	1/2	2,321.39
3/4		3/4		3/4		3/4	4,142.25	3/4	3,897.05	3/4	3,639.87	3/4	3,370.77	3/4	3,026.88	3/4	2,670.46	3/4	2,313.96
11		11		11		11	4,137.26	11	3,891.81	11	3,634.37	11	3,365.06	11	3,019.47	11	2,663.03	11	2,306.53
1/4		1/4		1/4		1/4	4,132.26	1/4	3,886.58	1/4	3,628.88	1/4	3,359.36	1/4	3,012.07	1/4	2,655.60	1/4	2,299.11
1/2		1/2		1/2	4,367.44	1/2	4,127.27	1/2	3,881.34	1/2	3,623.39	1/2	3,353.65	1/2	3,004.67	1/2	2,648.18	1/2	2,291.68
3/4		3/4		3/4	4,362.81	3/4	4,122.26	3/4	3,876.08	3/4	3,617.88	3/4	3,347.95	3/4	2,997.24	3/4	2,640.75	3/4	2,284.25

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 51'-03" FORWARD OF AFT BULKHEAD.

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

BARGE "KIRBY 29112"

3 PORT

ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 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	2,276.83	0	1,919.88	0	1,563.90	0	1,207.30	0	863.00	0	505.96	0	148.70	0		0		0	
1/4	2,269.40	1/4	1,912.44	1/4	1,556.49	1/4	1,200.12	1/4	855.58	1/4	498.51	1/4	141.26	1/4		1/4		1/4	
1/2	2,261.97	1/2	1,905.00	1/2	1,549.07	1/2	1,192.95	1/2	848.16	1/2	491.07	1/2	133.82	1/2		1/2		1/2	
3/4	2,254.54	3/4	1,897.59	3/4	1,541.63	3/4	1,185.78	3/4	840.73	3/4	483.63	3/4	126.37	3/4		3/4		3/4	
1	2,247.12	1	1,890.17	1	1,534.19	1	1,178.60	1	833.31	1	476.18	1	118.93	1		1		1	
1/4	2,239.69	1/4	1,882.76	1/4	1,526.75	1/4	1,171.43	1/4	825.89	1/4	468.74	1/4	111.49	1/4		1/4		1/4	
1/2	2,232.26	1/2	1,875.34	1/2	1,519.31	1/2	1,164.26	1/2	818.47	1/2	461.30	1/2	104.05	1/2		1/2		1/2	
3/4	2,224.83	3/4	1,867.92	3/4	1,511.86	3/4	1,157.08	3/4	811.05	3/4	453.86	3/4	96.92	3/4		3/4		3/4	
2	2,217.41	2	1,860.51	2	1,504.42	2	1,149.91	2	803.63	2	446.41	2	89.79	2		2		2	
1/4	2,209.98	1/4	1,853.09	1/4	1,496.98	1/4	1,142.74	1/4	796.20	1/4	438.97	1/4	82.66	1/4		1/4		1/4	
1/2	2,202.55	1/2	1,845.68	1/2	1,489.54	1/2	1,135.56	1/2	788.78	1/2	431.53	1/2	75.54	1/2		1/2		1/2	
3/4	2,195.12	3/4	1,838.26	3/4	1,482.10	3/4	1,128.39	3/4	781.34	3/4	424.09	3/4	69.35	3/4		3/4		3/4	
3	2,187.70	3	1,830.85	3	1,474.66	3	1,121.22	3	773.90	3	416.64	3	63.16	3		3		3	
1/4	2,180.27	1/4	1,823.43	1/4	1,467.21	1/4	1,114.04	1/4	766.45	1/4	409.20	1/4	56.98	1/4		1/4		1/4	
1/2	2,172.84	1/2	1,816.02	1/2	1,459.77	1/2	1,106.87	1/2	759.01	1/2	401.76	1/2	50.79	1/2		1/2		1/2	
3/4	2,165.41	3/4	1,808.60	3/4	1,452.33	3/4	1,099.70	3/4	751.57	3/4	394.31	3/4	45.86	3/4		3/4		3/4	
4	2,157.99	4	1,801.19	4	1,444.89	4	1,092.52	4	744.13	4	386.87	4	40.93	4		4		4	
1/4	2,150.56	1/4	1,793.77	1/4	1,437.45	1/4	1,085.35	1/4	736.68	1/4	379.43	1/4	36.00	1/4		1/4		1/4	
1/2	2,143.13	1/2	1,786.36	1/2	1,430.01	1/2	1,078.18	1/2	729.24	1/2	371.99	1/2	31.07	1/2		1/2		1/2	
3/4	2,135.69	3/4	1,778.94	3/4	1,422.57	3/4	1,071.02	3/4	721.80	3/4	364.54	3/4	27.40	3/4		3/4		3/4	
5	2,128.25	5	1,771.53	5	1,415.12	5	1,063.86	5	714.35	5	357.10	5	23.74	5		5		5	
1/4	2,120.81	1/4	1,764.11	1/4	1,407.68	1/4	1,056.70	1/4	706.91	1/4	349.66	1/4	20.07	1/4		1/4		1/4	
1/2	2,113.37	1/2	1,756.70	1/2	1,400.24	1/2	1,049.54	1/2	699.47	1/2	342.21	1/2	16.40	1/2		1/2		1/2	
3/4	2,105.92	3/4	1,749.28	3/4	1,392.80	3/4	1,042.38	3/4	692.03	3/4	334.77	3/4		3/4		3/4		3/4	
6	2,098.48	6	1,741.87	6	1,385.36	6	1,035.22	6	684.58	6	327.33	6		6		6		6	
1/4	2,091.04	1/4	1,734.45	1/4	1,377.92	1/4	1,028.06	1/4	677.14	1/4	319.89	1/4		1/4		1/4		1/4	
1/2	2,083.60	1/2	1,727.04	1/2	1,370.48	1/2	1,020.90	1/2	669.70	1/2	312.44	1/2		1/2		1/2		1/2	
3/4	2,076.16	3/4	1,719.62	3/4	1,363.03	3/4	1,013.74	3/4	662.25	3/4	305.00	3/4		3/4		3/4		3/4	
7	2,068.72	7	1,712.21	7	1,355.59	7	1,006.59	7	654.81	7	297.56	7		7		7		7	
1/4	2,061.27	1/4	1,704.79	1/4	1,348.15	1/4	999.43	1/4	647.37	1/4	290.11	1/4		1/4		1/4		1/4	
1/2	2,053.83	1/2	1,697.38	1/2	1,340.71	1/2	992.28	1/2	639.93	1/2	282.67	1/2		1/2		1/2		1/2	
3/4	2,046.39	3/4	1,689.96	3/4	1,333.27	3/4	985.12	3/4	632.48	3/4	275.23	3/4		3/4		3/4		3/4	
8	2,038.95	8	1,682.54	8	1,325.83	8	977.97	8	625.04	8	267.79	8		8		8		8	
1/4	2,031.51	1/4	1,675.13	1/4	1,318.38	1/4	970.82	1/4	617.60	1/4	260.34	1/4		1/4		1/4		1/4	
1/2	2,024.07	1/2	1,667.71	1/2	1,310.94	1/2	963.67	1/2	610.16	1/2	252.90	1/2		1/2		1/2		1/2	
3/4	2,016.62	3/4	1,660.30	3/4	1,303.50	3/4	956.52	3/4	602.71	3/4	245.46	3/4		3/4		3/4		3/4	
9	2,009.18	9	1,652.88	9	1,296.06	9	949.36	9	595.27	9	238.02	9		9		9		9	
1/4	2,001.74	1/4	1,645.47	1/4	1,288.62	1/4	942.21	1/4	587.83	1/4	230.57	1/4		1/4		1/4		1/4	
1/2	1,994.30	1/2	1,638.05	1/2	1,281.18	1/2	935.06	1/2	580.38	1/2	223.13	1/2		1/2		1/2		1/2	
3/4	1,986.86	3/4	1,630.64	3/4	1,273.74	3/4	927.91	3/4	572.94	3/4	215.69	3/4		3/4		3/4		3/4	
10	1,979.42	10	1,623.22	10	1,266.29	10	920.76	10	565.50	10	208.24	10		10		10		10	
1/4	1,971.98	1/4	1,615.81	1/4	1,258.85	1/4	913.60	1/4	558.06	1/4	200.80	1/4		1/4		1/4		1/4	
1/2	1,964.53	1/2	1,608.39	1/2	1,251.41	1/2	906.45	1/2	550.61	1/2	193.36	1/2		1/2		1/2		1/2	
3/4	1,957.09	3/4	1,600.98	3/4	1,243.97	3/4	899.30	3/4	543.17	3/4	185.92	3/4		3/4		3/4		3/4	
11	1,949.65	11	1,593.56	11	1,236.53	11	892.15	11	535.73	11	178.47	11		11		11		11	
1/4	1,942.21	1/4	1,586.15	1/4	1,229.09	1/4	884.99	1/4	528.28	1/4	171.03	1/4		1/4		1/4		1/4	
1/2	1,934.77	1/2	1,578.73	1/2	1,221.65	1/2	877.84	1/2	520.84	1/2	163.59	1/2		1/2		1/2		1/2	
3/4	1,927.33	3/4	1,571.32	3/4	1,214.47	3/4	870.42	3/4	513.40	3/4	156.14	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/27/2013 CL - SW
CALCULATED: 03/27/2013 CL
PRINTED: 03/27/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2013

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

BARGE "KIRBY 29112"

3 STBD

ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 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	4,386.11	0	4,144.03	0	3,896.43	0	3,636.82	0	3,365.49	0	3,011.11	0	2,653.29
1/4		1/4		1/4		1/4	4,381.45	1/4	4,139.00	1/4	3,891.14	1/4	3,631.29	1/4	3,359.76	1/4	3,003.66	1/4	2,645.84
1/2		1/2		1/2		1/2	4,376.79	1/2	4,133.96	1/2	3,885.85	1/2	3,625.76	1/2	3,354.03	1/2	2,996.20	1/2	2,638.38
3/4		3/4		3/4		3/4	4,372.61	3/4	4,128.91	3/4	3,880.55	3/4	3,620.20	3/4	3,346.57	3/4	2,988.75	3/4	2,630.93
1		1		1		1	4,368.44	1	4,123.86	1	3,875.25	1	3,614.64	1	3,339.12	1	2,981.30	1	2,623.47
1/4		1/4		1/4		1/4	4,364.26	1/4	4,118.81	1/4	3,869.94	1/4	3,609.08	1/4	3,331.66	1/4	2,973.84	1/4	2,616.02
1/2		1/2		1/2		1/2	4,360.08	1/2	4,113.76	1/2	3,864.64	1/2	3,603.52	1/2	3,324.21	1/2	2,966.39	1/2	2,608.57
3/4		3/4		3/4		3/4	4,354.70	3/4	4,108.68	3/4	3,859.32	3/4	3,597.95	3/4	3,316.75	3/4	2,958.93	3/4	2,601.11
2		2		2		2	4,349.32	2	4,103.61	2	3,853.99	2	3,592.37	2	3,309.30	2	2,951.48	2	2,593.66
1/4		1/4		1/4		1/4	4,343.94	1/4	4,098.53	1/4	3,848.67	1/4	3,586.80	1/4	3,301.84	1/4	2,944.02	1/4	2,586.20
1/2		1/2		1/2		1/2	4,338.56	1/2	4,093.46	1/2	3,843.35	1/2	3,581.22	1/2	3,294.39	1/2	2,936.57	1/2	2,578.75
3/4		3/4		3/4		3/4	4,332.83	3/4	4,088.36	3/4	3,838.00	3/4	3,575.63	3/4	3,286.93	3/4	2,929.11	3/4	2,571.29
3		3		3		3	4,327.10	3	4,083.27	3	3,832.65	3	3,570.03	3	3,279.48	3	2,921.66	3	2,563.84
1/4		1/4		1/4		1/4	4,321.37	1/4	4,078.17	1/4	3,827.31	1/4	3,564.44	1/4	3,272.03	1/4	2,914.20	1/4	2,556.38
1/2		1/2		1/2		1/2	4,315.64	1/2	4,073.08	1/2	3,821.96	1/2	3,558.85	1/2	3,264.57	1/2	2,906.75	1/2	2,548.93
3/4		3/4		3/4		3/4	4,309.91	3/4	4,067.96	3/4	3,816.60	3/4	3,553.23	3/4	3,257.12	3/4	2,899.30	3/4	2,541.47
4		4		4		4	4,304.18	4	4,062.85	4	3,811.23	4	3,547.61	4	3,249.66	4	2,891.84	4	2,534.02
1/4		1/4		1/4		1/4	4,298.45	1/4	4,057.73	1/4	3,805.87	1/4	3,541.99	1/4	3,242.21	1/4	2,884.39	1/4	2,526.57
1/2		1/2		1/2		1/2	4,292.72	1/2	4,052.61	1/2	3,800.50	1/2	3,536.38	1/2	3,234.75	1/2	2,876.93	1/2	2,519.11
3/4		3/4		3/4		3/4	4,287.84	3/4	4,047.48	3/4	3,795.11	3/4	3,530.74	3/4	3,227.30	3/4	2,869.48	3/4	2,511.66
5		5		5		5	4,282.95	5	4,042.34	5	3,789.73	5	3,525.11	5	3,219.84	5	2,862.02	5	2,504.20
1/4		1/4		1/4		1/4	4,278.06	1/4	4,037.20	1/4	3,784.34	1/4	3,519.47	1/4	3,212.39	1/4	2,854.57	1/4	2,496.75
1/2		1/2		1/2		1/2	4,273.17	1/2	4,032.07	1/2	3,778.95	1/2	3,513.83	1/2	3,204.93	1/2	2,847.11	1/2	2,489.29
3/4		3/4		3/4		3/4	4,268.26	3/4	4,026.91	3/4	3,773.54	3/4	3,508.17	3/4	3,197.48	3/4	2,839.66	3/4	2,481.84
6		6		6		6	4,263.36	6	4,021.75	6	3,768.14	6	3,502.52	6	3,190.02	6	2,832.20	6	2,474.38
1/4		1/4		1/4		1/4	4,258.45	1/4	4,016.59	1/4	3,762.73	1/4	3,496.86	1/4	3,182.57	1/4	2,824.75	1/4	2,466.93
1/2		1/2		1/2		1/2	4,253.54	1/2	4,011.43	1/2	3,757.32	1/2	3,491.20	1/2	3,175.12	1/2	2,817.29	1/2	2,459.47
3/4		3/4		3/4		3/4	4,248.61	3/4	4,006.25	3/4	3,751.89	3/4	3,485.52	3/4	3,167.66	3/4	2,809.84	3/4	2,452.02
7		7		7		7	4,243.68	7	4,001.08	7	3,746.46	7	3,479.84	7	3,160.21	7	2,802.39	7	2,444.56
1/4		1/4		1/4		1/4	4,238.75	1/4	3,995.90	1/4	3,741.03	1/4	3,474.16	1/4	3,152.75	1/4	2,794.93	1/4	2,437.11
1/2		1/2		1/2		1/2	4,233.82	1/2	3,990.72	1/2	3,735.60	1/2	3,468.49	1/2	3,145.30	1/2	2,787.48	1/2	2,429.66
3/4		3/4		3/4		3/4	4,228.87	3/4	3,985.52	3/4	3,730.15	3/4	3,462.78	3/4	3,137.84	3/4	2,780.02	3/4	2,422.20
8		8		8		8	4,223.92	8	3,980.32	8	3,724.70	8	3,457.08	8	3,130.39	8	2,772.57	8	2,414.75
1/4		1/4		1/4		1/4	4,218.97	1/4	3,975.11	1/4	3,719.26	1/4	3,451.38	1/4	3,122.93	1/4	2,765.11	1/4	2,407.29
1/2		1/2		1/2		1/2	4,214.02	1/2	3,969.91	1/2	3,713.81	1/2	3,445.68	1/2	3,115.48	1/2	2,757.66	1/2	2,399.84
3/4		3/4		3/4		3/4	4,209.05	3/4	3,964.69	3/4	3,708.33	3/4	3,439.96	3/4	3,108.02	3/4	2,750.20	3/4	2,392.38
9		9		9		9	4,204.07	9	3,959.47	9	3,702.86	9	3,434.24	9	3,100.57	9	2,742.75	9	2,384.93
1/4		1/4		1/4		1/4	4,199.10	1/4	3,954.25	1/4	3,697.39	1/4	3,428.52	1/4	3,093.11	1/4	2,735.29	1/4	2,377.47
1/2		1/2		1/2		1/2	4,194.13	1/2	3,949.03	1/2	3,691.91	1/2	3,422.80	1/2	3,085.66	1/2	2,727.84	1/2	2,370.02
3/4		3/4		3/4		3/4	4,189.14	3/4	3,943.79	3/4	3,686.42	3/4	3,417.07	3/4	3,078.21	3/4	2,720.38	3/4	2,362.56
10		10		10		10	4,184.14	10	3,938.54	10	3,680.93	10	3,411.34	10	3,070.75	10	2,712.93	10	2,355.11
1/4		1/4		1/4		1/4	4,179.15	1/4	3,933.30	1/4	3,675.44	1/4	3,405.61	1/4	3,063.30	1/4	2,705.48	1/4	2,347.65
1/2		1/2		1/2		1/2	4,174.16	1/2	3,928.05	1/2	3,669.95	1/2	3,399.88	1/2	3,055.84	1/2	2,698.02	1/2	2,340.20
3/4		3/4		3/4		3/4	4,169.15	3/4	3,922.79	3/4	3,664.44	3/4	3,394.14	3/4	3,048.39	3/4	2,690.57	3/4	2,332.75
11		11		11		11	4,164.13	11	3,917.53	11	3,658.92	11	3,388.41	11	3,040.93	11	2,683.11	11	2,325.29
1/4		1/4		1/4		1/4	4,159.11	1/4	3,912.27	1/4	3,653.40	1/4	3,382.68	1/4	3,033.48	1/4	2,675.66	1/4	2,317.84
1/2		1/2		1/2	4,395.43	1/2	4,154.10	1/2	3,907.00	1/2	3,647.89	1/2	3,376.95	1/2	3,026.02	1/2	2,668.20	1/2	2,310.38
3/4		3/4		3/4	4,390.77	3/4	4,149.06	3/4	3,901.72	3/4	3,642.36	3/4	3,371.22	3/4	3,018.57	3/4	2,660.75	3/4	2,302.93

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 51'-03" FORWARD OF AFT BULKHEAD.

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

BARGE "KIRBY 29112"

3 STBD

ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 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	2,295.47	0	1,937.65	0	1,579.83	0	1,222.01	0	864.45	0	506.76	0	148.95	0		0		0	
1/4	2,288.02	1/4	1,930.20	1/4	1,572.38	1/4	1,214.56	1/4	857.01	1/4	499.30	1/4	141.49	1/4		1/4		1/4	
1/2	2,280.56	1/2	1,922.74	1/2	1,564.92	1/2	1,207.10	1/2	849.57	1/2	491.85	1/2	134.04	1/2		1/2		1/2	
3/4	2,273.11	3/4	1,915.29	3/4	1,557.47	3/4	1,199.65	3/4	842.12	3/4	484.39	3/4	126.58	3/4		3/4		3/4	
1	2,265.65	1	1,907.83	1	1,550.01	1	1,192.19	1	834.68	1	476.94	1	119.13	1		1		1	
1/4	2,258.20	1/4	1,900.38	1/4	1,542.56	1/4	1,184.74	1/4	827.24	1/4	469.48	1/4	111.68	1/4		1/4		1/4	
1/2	2,250.74	1/2	1,892.92	1/2	1,535.10	1/2	1,177.28	1/2	819.79	1/2	462.03	1/2	104.22	1/2		1/2		1/2	
3/4	2,243.29	3/4	1,885.47	3/4	1,527.65	3/4	1,169.83	3/4	812.35	3/4	454.58	3/4	97.08	3/4		3/4		3/4	
2	2,235.84	2	1,878.01	2	1,520.19	2	1,162.37	2	804.91	2	447.12	2	89.94	2		2		2	
1/4	2,228.38	1/4	1,870.56	1/4	1,512.74	1/4	1,154.92	1/4	797.47	1/4	439.67	1/4	82.80	1/4		1/4		1/4	
1/2	2,220.93	1/2	1,863.11	1/2	1,505.28	1/2	1,147.46	1/2	790.02	1/2	432.21	1/2	75.66	1/2		1/2		1/2	
3/4	2,213.47	3/4	1,855.65	3/4	1,497.83	3/4	1,140.01	3/4	782.57	3/4	424.76	3/4	69.47	3/4		3/4		3/4	
3	2,206.02	3	1,848.20	3	1,490.38	3	1,132.55	3	775.12	3	417.30	3	63.27	3		3		3	
1/4	2,198.56	1/4	1,840.74	1/4	1,482.92	1/4	1,125.10	1/4	767.66	1/4	409.85	1/4	57.07	1/4		1/4		1/4	
1/2	2,191.11	1/2	1,833.29	1/2	1,475.47	1/2	1,117.65	1/2	760.21	1/2	402.40	1/2	50.87	1/2		1/2		1/2	
3/4	2,183.65	3/4	1,825.83	3/4	1,468.01	3/4	1,110.19	3/4	752.75	3/4	394.94	3/4	45.93	3/4		3/4		3/4	
4	2,176.20	4	1,818.38	4	1,460.56	4	1,102.74	4	745.30	4	387.49	4	40.99	4		4		4	
1/4	2,168.74	1/4	1,810.92	1/4	1,453.10	1/4	1,095.28	1/4	737.84	1/4	380.03	1/4	36.05	1/4		1/4		1/4	
1/2	2,161.29	1/2	1,803.47	1/2	1,445.65	1/2	1,087.83	1/2	730.39	1/2	372.58	1/2	31.10	1/2		1/2		1/2	
3/4	2,153.84	3/4	1,796.01	3/4	1,438.19	3/4	1,080.37	3/4	722.93	3/4	365.12	3/4	27.43	3/4		3/4		3/4	
5	2,146.38	5	1,788.56	5	1,430.74	5	1,072.92	5	715.48	5	357.67	5	23.75	5		5		5	
1/4	2,138.93	1/4	1,781.11	1/4	1,423.28	1/4	1,065.46	1/4	708.03	1/4	350.21	1/4	20.08	1/4		1/4		1/4	
1/2	2,131.47	1/2	1,773.65	1/2	1,415.83	1/2	1,058.01	1/2	700.57	1/2	342.76	1/2	16.40	1/2		1/2		1/2	
3/4	2,124.02	3/4	1,766.20	3/4	1,408.38	3/4	1,050.55	3/4	693.12	3/4	335.31	3/4		3/4		3/4		3/4	
6	2,116.56	6	1,758.74	6	1,400.92	6	1,043.10	6	685.66	6	327.85	6		6		6		6	
1/4	2,109.11	1/4	1,751.29	1/4	1,393.47	1/4	1,035.65	1/4	678.21	1/4	320.40	1/4		1/4		1/4		1/4	
1/2	2,101.65	1/2	1,743.83	1/2	1,386.01	1/2	1,028.19	1/2	670.75	1/2	312.94	1/2		1/2		1/2		1/2	
3/4	2,094.20	3/4	1,736.38	3/4	1,378.56	3/4	1,020.75	3/4	663.30	3/4	305.49	3/4		3/4		3/4		3/4	
7	2,086.74	7	1,728.92	7	1,371.10	7	1,013.31	7	655.84	7	298.03	7		7		7		7	
1/4	2,079.29	1/4	1,721.47	1/4	1,363.65	1/4	1,005.86	1/4	648.39	1/4	290.58	1/4		1/4		1/4		1/4	
1/2	2,071.83	1/2	1,714.01	1/2	1,356.19	1/2	998.42	1/2	640.94	1/2	283.12	1/2		1/2		1/2		1/2	
3/4	2,064.38	3/4	1,706.56	3/4	1,348.74	3/4	990.98	3/4	633.48	3/4	275.67	3/4		3/4		3/4		3/4	
8	2,056.93	8	1,699.10	8	1,341.28	8	983.53	8	626.03	8	268.22	8		8		8		8	
1/4	2,049.47	1/4	1,691.65	1/4	1,333.83	1/4	976.09	1/4	618.57	1/4	260.76	1/4		1/4		1/4		1/4	
1/2	2,042.02	1/2	1,684.20	1/2	1,326.37	1/2	968.65	1/2	611.12	1/2	253.31	1/2		1/2		1/2		1/2	
3/4	2,034.56	3/4	1,676.74	3/4	1,318.92	3/4	961.21	3/4	603.66	3/4	245.85	3/4		3/4		3/4		3/4	
9	2,027.11	9	1,669.29	9	1,311.47	9	953.76	9	596.21	9	238.40	9		9		9		9	
1/4	2,019.65	1/4	1,661.83	1/4	1,304.01	1/4	946.32	1/4	588.76	1/4	230.94	1/4		1/4		1/4		1/4	
1/2	2,012.20	1/2	1,654.38	1/2	1,296.56	1/2	938.88	1/2	581.30	1/2	223.49	1/2		1/2		1/2		1/2	
3/4	2,004.74	3/4	1,646.92	3/4	1,289.10	3/4	931.44	3/4	573.85	3/4	216.04	3/4		3/4		3/4		3/4	
10	1,997.29	10	1,639.47	10	1,281.65	10	923.99	10	566.39	10	208.58	10		10		10		10	
1/4	1,989.83	1/4	1,632.01	1/4	1,274.19	1/4	916.55	1/4	558.94	1/4	201.13	1/4		1/4		1/4		1/4	
1/2	1,982.38	1/2	1,624.56	1/2	1,266.74	1/2	909.11	1/2	551.48	1/2	193.67	1/2		1/2		1/2		1/2	
3/4	1,974.92	3/4	1,617.10	3/4	1,259.28	3/4	901.66	3/4	544.03	3/4	186.22	3/4		3/4		3/4		3/4	
11	1,967.47	11	1,609.65	11	1,251.83	11	894.22	11	536.57	11	178.76	11		11		11		11	
1/4	1,960.02	1/4	1,602.19	1/4	1,244.37	1/4	886.78	1/4	529.12	1/4	171.31	1/4		1/4		1/4		1/4	
1/2	1,952.56	1/2	1,594.74	1/2	1,236.92	1/2	879.34	1/2	521.67	1/2	163.85	1/2		1/2		1/2		1/2	
3/4	1,945.11	3/4	1,587.29	3/4	1,229.46	3/4	871.89	3/4	514.21	3/4	156.40	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/27/2013 CL - SW
CALCULATED: 03/27/2013 CL
PRINTED: 03/27/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2013

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