



BARGE "KIRBY 29052"

ULLAGE TRIM TABLE

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 236'-06"

January 19, 2013

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "KIRBY 29052"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4		1/4		1/4		1/4	4,189.50	1/4	3,900.32	1/4	3,596.65	1/4	3,279.19	1/4	2,949.81	1/4	2,618.70	1/4	2,287.55		
1/2		1/2		1/2		1/2	4,183.59	1/2	3,894.17	1/2	3,590.19	1/2	3,272.44	1/2	2,942.91	1/2	2,611.80	1/2	2,280.65		
3/4		3/4		3/4		3/4	4,177.66	3/4	3,888.00	3/4	3,583.70	3/4	3,265.66	3/4	2,936.01	3/4	2,604.90	3/4	2,273.75		
1	1	1	1	1	1	1	4,171.74	1	3,881.82	1	3,577.21	1	3,258.88	1	2,929.12	1	2,598.00	1	2,266.85		
1/4		1/4		1/4		1/4	4,165.81	1/4	3,875.64	1/4	3,570.72	1/4	3,252.10	1/4	2,922.22	1/4	2,591.10	1/4	2,259.95		
1/2		1/2		1/2		1/2	4,159.88	1/2	3,869.47	1/2	3,564.23	1/2	3,245.33	1/2	2,915.32	1/2	2,584.21	1/2	2,253.05		
3/4		3/4		3/4		3/4	4,153.93	3/4	3,863.27	3/4	3,557.71	3/4	3,238.53	3/4	2,908.42	3/4	2,577.31	3/4	2,246.15		
2	2	2	2	2	2	2	4,147.97	2	3,857.07	2	3,551.20	2	3,231.74	2	2,901.52	2	2,570.41	2	2,239.25		
1/4		1/4		1/4		1/4	4,142.02	1/4	3,850.87	1/4	3,544.69	1/4	3,224.94	1/4	2,894.63	1/4	2,563.51	1/4	2,232.36		
1/2		1/2		1/2		1/2	4,136.06	1/2	3,844.67	1/2	3,538.18	1/2	3,218.14	1/2	2,887.73	1/2	2,556.61	1/2	2,225.46		
3/4		3/4		3/4		3/4	4,130.12	3/4	3,838.42	3/4	3,531.64	3/4	3,211.33	3/4	2,880.83	3/4	2,549.72	3/4	2,218.56		
3	3	3	3	3	3	3	4,124.18	3	3,832.16	3	3,525.10	3	3,204.51	3	2,873.93	3	2,542.82	3	2,211.66		
1/4		1/4		1/4		1/4	4,118.24	1/4	3,825.91	1/4	3,518.56	1/4	3,197.69	1/4	2,867.03	1/4	2,535.92	1/4	2,204.76		
1/2		1/2		1/2		1/2	4,112.30	1/2	3,819.66	1/2	3,512.03	1/2	3,190.87	1/2	2,860.13	1/2	2,529.02	1/2	2,197.86		
3/4		3/4		3/4		3/4	4,106.33	3/4	3,813.38	3/4	3,505.47	3/4	3,184.03	3/4	2,853.24	3/4	2,522.12	3/4	2,190.96		
4	4	4	4	4	4	4	4,100.37	4	3,807.09	4	3,498.91	4	3,177.18	4	2,846.34	4	2,515.22	4	2,184.06		
1/4		1/4		1/4		1/4	4,094.41	1/4	3,800.81	1/4	3,492.35	1/4	3,170.33	1/4	2,839.44	1/4	2,508.33	1/4	2,177.16		
1/2		1/2		1/2		1/2	4,088.44	1/2	3,794.53	1/2	3,485.79	1/2	3,163.49	1/2	2,832.54	1/2	2,501.43	1/2	2,170.26		
3/4		3/4		3/4		3/4	4,082.45	3/4	3,788.23	3/4	3,479.20	3/4	3,156.62	3/4	2,825.64	3/4	2,494.53	3/4	2,163.36		
5	5	5	5	5	5	5	4,076.46	5	3,781.93	5	3,472.61	5	3,149.75	5	2,818.75	5	2,487.63	5	2,156.46		
1/4		1/4		1/4		1/4	4,070.47	1/4	3,775.63	1/4	3,466.02	1/4	3,142.89	1/4	2,811.85	1/4	2,480.73	1/4	2,149.56		
1/2		1/2		1/2		1/2	4,064.48	1/2	3,769.33	1/2	3,459.43	1/2	3,136.02	1/2	2,804.95	1/2	2,473.84	1/2	2,142.66		
3/4		3/4		3/4		3/4	4,356.68	3/4	4,058.47	3/4	3,762.99	3/4	3,452.82	3/4	3,129.13	3/4	2,798.05	3/4	2,466.94	3/4	2,135.76
6	6	6	6	6	6	6	4,351.50	6	4,052.46	6	3,756.66	6	3,446.21	6	3,122.25	6	2,791.15	6	2,460.04	6	2,128.86
1/4		1/4		1/4		1/4	4,346.33	1/4	4,046.45	1/4	3,750.33	1/4	3,439.61	1/4	3,115.36	1/4	2,784.25	1/4	2,453.14	1/4	2,121.96
1/2		1/2		1/2		1/2	4,341.15	1/2	4,040.44	1/2	3,744.00	1/2	3,433.00	1/2	3,108.47	1/2	2,777.36	1/2	2,446.24	1/2	2,115.06
3/4		3/4		3/4		3/4	4,334.25	3/4	4,034.40	3/4	3,737.65	3/4	3,426.37	3/4	3,101.57	3/4	2,770.46	3/4	2,439.34	3/4	2,108.16
7	7	7	7	7	7	7	4,327.35	7	4,028.36	7	3,731.30	7	3,419.74	7	3,094.67	7	2,763.56	7	2,432.44	7	2,101.26
1/4		1/4		1/4		1/4	4,320.45	1/4	4,022.32	1/4	3,724.95	1/4	3,413.11	1/4	3,087.78	1/4	2,756.66	1/4	2,425.54	1/4	2,094.36
1/2		1/2		1/2		1/2	4,313.55	1/2	4,016.28	1/2	3,718.60	1/2	3,406.48	1/2	3,080.88	1/2	2,749.76	1/2	2,418.64	1/2	2,087.46
3/4		3/4		3/4		3/4	4,306.65	3/4	4,010.22	3/4	3,712.23	3/4	3,399.82	3/4	3,073.98	3/4	2,742.87	3/4	2,411.74	3/4	2,080.56
8	8	8	8	8	8	8	4,299.75	8	4,004.16	8	3,705.85	8	3,393.16	8	3,067.08	8	2,735.97	8	2,404.85	8	2,073.66
1/4		1/4		1/4		1/4	4,292.85	1/4	3,998.10	1/4	3,699.48	1/4	3,386.50	1/4	3,060.18	1/4	2,729.07	1/4	2,397.95	1/4	2,066.76
1/2		1/2		1/2		1/2	4,285.96	1/2	3,992.04	1/2	3,693.11	1/2	3,379.85	1/2	3,053.28	1/2	2,722.17	1/2	2,391.05	1/2	2,059.87
3/4		3/4		3/4		3/4	4,279.06	3/4	3,985.96	3/4	3,686.71	3/4	3,373.17	3/4	3,046.39	3/4	2,715.27	3/4	2,384.15	3/4	2,052.97
9	9	9	9	9	9	9	4,272.16	9	3,979.88	9	3,680.31	9	3,366.49	9	3,039.49	9	2,708.37	9	2,377.25	9	2,046.07
1/4		1/4		1/4		1/4	4,265.26	1/4	3,973.80	1/4	3,673.91	1/4	3,359.81	1/4	3,032.59	1/4	2,701.48	1/4	2,370.35	1/4	2,039.17
1/2		1/2		1/2		1/2	4,258.36	1/2	3,967.72	1/2	3,667.51	1/2	3,353.14	1/2	3,025.69	1/2	2,694.58	1/2	2,363.45	1/2	2,032.27
3/4		3/4		3/4		3/4	4,251.46	3/4	3,961.61	3/4	3,661.09	3/4	3,346.44	3/4	3,018.79	3/4	2,687.68	3/4	2,356.55	3/4	2,025.37
10	10	10	10	10	10	10	4,244.56	10	3,955.51	10	3,654.67	10	3,339.74	10	3,011.90	10	2,680.78	10	2,349.65	10	2,018.47
1/4		1/4		1/4		1/4	4,237.66	1/4	3,949.40	1/4	3,648.25	1/4	3,333.04	1/4	3,005.00	1/4	2,673.88	1/4	2,342.75	1/4	2,011.57
1/2		1/2		1/2		1/2	4,230.76	1/2	3,943.29	1/2	3,641.83	1/2	3,326.34	1/2	2,998.10	1/2	2,666.99	1/2	2,335.85	1/2	2,004.67
3/4		3/4		3/4		3/4	4,224.87	3/4	3,937.16	3/4	3,635.39	3/4	3,319.61	3/4	2,991.20	3/4	2,660.09	3/4	2,328.95	3/4	1,997.77
11	11	11	11	11	11	11	4,218.99	11	3,931.03	11	3,628.94	11	3,312.88	11	2,984.30	11	2,653.19	11	2,322.05	11	1,990.87
1/4		1/4		1/4		1/4	4,213.10	1/4	3,924.90	1/4	3,622.50	1/4	3,306.16	1/4	2,977.40	1/4	2,646.29	1/4	2,315.15	1/4	1,983.97
1/2		1/2		1/2		1/2	4,207.22	1/2	3,918.77	1/2	3,616.06	1/2	3,299.43	1/2	2,970.51	1/2	2,639.39	1/2	2,308.25	1/2	1,977.07
3/4		3/4		3/4		3/4	4,201.31	3/4	3,912.62	3/4	3,609.59	3/4	3,292.68	3/4	2,963.61	3/4	2,632.49	3/4	2,301.35	3/4	1,970.17

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 37'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
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BARGE "KIRBY 29052"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 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	1,963.27	0	1,632.09	0	1,300.91	0	970.23	0	655.20	0	363.24	0	94.86	0		0		0	
1/4	1,956.37	1/4	1,625.19	1/4	1,294.01	1/4	963.41	1/4	648.87	1/4	357.40	1/4	89.51	1/4	1/4	1/4		1/4	
1/2	1,949.47	1/2	1,618.29	1/2	1,287.11	1/2	956.59	1/2	642.54	1/2	351.56	1/2	84.16	1/2	1/2	1/2		1/2	
3/4	1,942.57	3/4	1,611.39	3/4	1,280.21	3/4	949.83	3/4	636.25	3/4	345.77	3/4	78.86	3/4	3/4	3/4		3/4	
1	1,935.67	1	1,604.49	1	1,273.31	1	943.07	1	629.97	1	339.97	1	73.56	1	1	1		1	
1/4	1,928.77	1/4	1,597.59	1/4	1,266.41	1/4	936.30	1/4	623.68	1/4	334.18	1/4	68.26	1/4	1/4	1/4		1/4	
1/2	1,921.87	1/2	1,590.69	1/2	1,259.51	1/2	929.54	1/2	617.39	1/2	328.38	1/2	62.96	1/2	1/2	1/2		1/2	
3/4	1,914.97	3/4	1,583.79	3/4	1,252.61	3/4	922.82	3/4	611.15	3/4	322.63	3/4	57.70	3/4	3/4	3/4		3/4	
2	1,908.07	2	1,576.89	2	1,245.71	2	916.10	2	604.90	2	316.87	2	52.44	2	2	2		2	
1/4	1,901.17	1/4	1,569.99	1/4	1,238.81	1/4	909.38	1/4	598.65	1/4	311.11	1/4	47.17	1/4	1/4	1/4		1/4	
1/2	1,894.27	1/2	1,563.09	1/2	1,231.91	1/2	902.65	1/2	592.41	1/2	305.36	1/2	41.91	1/2	1/2	1/2		1/2	
3/4	1,887.38	3/4	1,556.19	3/4	1,225.01	3/4	895.97	3/4	586.20	3/4	299.64	3/4	37.56	3/4	3/4	3/4		3/4	
3	1,880.48	3	1,549.29	3	1,218.11	3	889.29	3	580.00	3	293.93	3	33.20	3	3	3		3	
1/4	1,873.58	1/4	1,542.40	1/4	1,211.21	1/4	882.61	1/4	573.79	1/4	288.22	1/4	28.85	1/4	1/4	1/4		1/4	
1/2	1,866.68	1/2	1,535.50	1/2	1,204.31	1/2	875.93	1/2	567.59	1/2	282.51	1/2	24.49	1/2	1/2	1/2		1/2	
3/4	1,859.78	3/4	1,528.60	3/4	1,197.42	3/4	869.29	3/4	561.42	3/4	276.83	3/4	21.90	3/4	3/4	3/4		3/4	
4	1,852.88	4	1,521.70	4	1,190.52	4	862.65	4	555.26	4	271.16	4	19.31	4	4	4		4	
1/4	1,845.98	1/4	1,514.80	1/4	1,183.62	1/4	856.01	1/4	549.09	1/4	265.48	1/4	16.71	1/4	1/4	1/4		1/4	
1/2	1,839.08	1/2	1,507.90	1/2	1,176.72	1/2	849.37	1/2	542.93	1/2	259.81	1/2	14.12	1/2	1/2	1/2		1/2	
3/4	1,832.18	3/4	1,501.00	3/4	1,169.82	3/4	842.77	3/4	536.80	3/4	254.18	3/4		3/4	3/4	3/4		3/4	
5	1,825.28	5	1,494.10	5	1,162.92	5	836.18	5	530.68	5	248.55	5		5	5	5		5	
1/4	1,818.38	1/4	1,487.20	1/4	1,156.02	1/4	829.58	1/4	524.56	1/4	242.92	1/4		1/4	1/4	1/4		1/4	
1/2	1,811.48	1/2	1,480.30	1/2	1,149.12	1/2	822.98	1/2	518.44	1/2	237.29	1/2		1/2	1/2	1/2		1/2	
3/4	1,804.58	3/4	1,473.40	3/4	1,142.22	3/4	816.42	3/4	512.35	3/4	231.69	3/4		3/4	3/4	3/4		3/4	
6	1,797.68	6	1,466.50	6	1,135.32	6	809.86	6	506.27	6	226.10	6		6	6	6		6	
1/4	1,790.78	1/4	1,459.60	1/4	1,128.42	1/4	803.30	1/4	500.19	1/4	220.50	1/4		1/4	1/4	1/4		1/4	
1/2	1,783.88	1/2	1,452.70	1/2	1,121.52	1/2	796.74	1/2	494.10	1/2	214.91	1/2		1/2	1/2	1/2		1/2	
3/4	1,776.98	3/4	1,445.80	3/4	1,114.62	3/4	790.23	3/4	488.06	3/4	209.36	3/4		3/4	3/4	3/4		3/4	
7	1,770.08	7	1,438.90	7	1,107.72	7	783.71	7	482.02	7	203.81	7		7	7	7		7	
1/4	1,763.18	1/4	1,432.00	1/4	1,100.82	1/4	777.20	1/4	475.98	1/4	198.27	1/4		1/4	1/4	1/4		1/4	
1/2	1,756.28	1/2	1,425.10	1/2	1,093.92	1/2	770.68	1/2	469.94	1/2	192.72	1/2		1/2	1/2	1/2		1/2	
3/4	1,749.38	3/4	1,418.20	3/4	1,087.02	3/4	764.20	3/4	463.94	3/4	187.21	3/4		3/4	3/4	3/4		3/4	
8	1,742.48	8	1,411.30	8	1,080.12	8	757.73	8	457.94	8	181.69	8		8	8	8		8	
1/4	1,735.58	1/4	1,404.40	1/4	1,073.23	1/4	751.25	1/4	451.94	1/4	176.18	1/4		1/4	1/4	1/4		1/4	
1/2	1,728.68	1/2	1,397.50	1/2	1,066.33	1/2	744.77	1/2	445.93	1/2	170.67	1/2		1/2	1/2	1/2		1/2	
3/4	1,721.78	3/4	1,390.60	3/4	1,059.44	3/4	738.32	3/4	439.98	3/4	165.20	3/4		3/4	3/4	3/4		3/4	
9	1,714.89	9	1,383.70	9	1,052.55	9	731.87	9	434.02	9	159.74	9		9	9	9		9	
1/4	1,707.99	1/4	1,376.80	1/4	1,045.66	1/4	725.42	1/4	428.06	1/4	154.27	1/4		1/4	1/4	1/4		1/4	
1/2	1,701.09	1/2	1,369.91	1/2	1,038.77	1/2	718.97	1/2	422.10	1/2	148.80	1/2		1/2	1/2	1/2		1/2	
3/4	1,694.19	3/4	1,363.01	3/4	1,031.89	3/4	712.56	3/4	416.18	3/4	143.37	3/4		3/4	3/4	3/4		3/4	
10	1,687.29	10	1,356.11	10	1,025.02	10	706.15	10	410.26	10	137.94	10		10	10	10		10	
1/4	1,680.39	1/4	1,349.21	1/4	1,018.14	1/4	699.74	1/4	404.34	1/4	132.51	1/4		1/4	1/4	1/4		1/4	
1/2	1,673.49	1/2	1,342.31	1/2	1,011.27	1/2	693.33	1/2	398.42	1/2	127.08	1/2		1/2	1/2	1/2		1/2	
3/4	1,666.59	3/4	1,335.41	3/4	1,004.42	3/4	686.96	3/4	392.54	3/4	121.70	3/4		3/4	3/4	3/4		3/4	
11	1,659.69	11	1,328.51	11	997.56	11	680.59	11	386.67	11	116.31	11		11	11	11		11	
1/4	1,652.79	1/4	1,321.61	1/4	990.71	1/4	674.22	1/4	380.79	1/4	110.93	1/4		1/4	1/4	1/4		1/4	
1/2	1,645.89	1/2	1,314.71	1/2	983.86	1/2	667.85	1/2	374.91	1/2	105.55	1/2		1/2	1/2	1/2		1/2	
3/4	1,638.99	3/4	1,307.81	3/4	977.04	3/4	661.53	3/4	369.08	3/4	100.20	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/18/2013 CL
CALCULATED: 01/19/2013 CL
PRINTED: 01/19/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2013

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



BARGE "KIRBY 29052"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0		0		0	4,195.14	0	3,906.75	0	3,604.04	0	3,287.46	0	2,958.74	0	2,627.97	0	2,297.17
1/4		1/4		1/4		1/4	4,189.24	1/4	3,900.61	1/4	3,597.58	1/4	3,280.72	1/4	2,951.85	1/4	2,621.08	1/4	2,290.28
1/2		1/2		1/2		1/2	4,183.34	1/2	3,894.47	1/2	3,591.12	1/2	3,273.98	1/2	2,944.96	1/2	2,614.19	1/2	2,283.39
3/4		3/4		3/4		3/4	4,177.44	3/4	3,888.32	3/4	3,584.65	3/4	3,267.24	3/4	2,938.06	3/4	2,607.30	3/4	2,276.50
1		1		1		1	4,171.52	1	3,882.15	1	3,578.17	1	3,260.47	1	2,931.17	1	2,600.41	1	2,269.60
1/4		1/4		1/4		1/4	4,165.60	1/4	3,875.98	1/4	3,571.69	1/4	3,253.70	1/4	2,924.28	1/4	2,593.51	1/4	2,262.71
1/2		1/2		1/2		1/2	4,159.67	1/2	3,869.81	1/2	3,565.20	1/2	3,246.93	1/2	2,917.39	1/2	2,586.62	1/2	2,255.82
3/4		3/4		3/4		3/4	4,153.75	3/4	3,863.64	3/4	3,558.72	3/4	3,240.16	3/4	2,910.50	3/4	2,579.73	3/4	2,248.93
2		2		2		2	4,147.80	2	3,857.45	2	3,552.22	2	3,233.37	2	2,903.61	2	2,572.84	2	2,242.03
1/4		1/4		1/4		1/4	4,141.86	1/4	3,851.26	1/4	3,545.71	1/4	3,226.58	1/4	2,896.72	1/4	2,565.95	1/4	2,235.14
1/2		1/2		1/2		1/2	4,135.91	1/2	3,845.07	1/2	3,539.21	1/2	3,219.79	1/2	2,889.83	1/2	2,559.06	1/2	2,228.25
3/4		3/4		3/4		3/4	4,129.96	3/4	3,838.87	3/4	3,532.70	3/4	3,213.00	3/4	2,882.94	3/4	2,552.17	3/4	2,221.36
3		3		3		3	4,124.02	3	3,832.63	3	3,526.17	3	3,206.19	3	2,876.05	3	2,545.28	3	2,214.46
1/4		1/4		1/4		1/4	4,118.09	1/4	3,826.38	1/4	3,519.64	1/4	3,199.38	1/4	2,869.15	1/4	2,538.39	1/4	2,207.57
1/2		1/2		1/2		1/2	4,112.15	1/2	3,820.13	1/2	3,513.11	1/2	3,192.57	1/2	2,862.26	1/2	2,531.50	1/2	2,200.68
3/4		3/4		3/4		3/4	4,106.22	3/4	3,813.88	3/4	3,506.58	3/4	3,185.76	3/4	2,855.37	3/4	2,524.60	3/4	2,193.79
4		4		4		4	4,100.26	4	3,807.61	4	3,500.02	4	3,178.92	4	2,848.48	4	2,517.71	4	2,186.89
1/4		1/4		1/4		1/4	4,094.30	1/4	3,801.34	1/4	3,493.47	1/4	3,172.08	1/4	2,841.59	1/4	2,510.82	1/4	2,180.00
1/2		1/2		1/2		1/2	4,088.35	1/2	3,795.06	1/2	3,486.92	1/2	3,165.24	1/2	2,834.70	1/2	2,503.93	1/2	2,173.11
3/4		3/4		3/4		3/4	4,082.39	3/4	3,788.79	3/4	3,480.36	3/4	3,158.40	3/4	2,827.81	3/4	2,497.04	3/4	2,166.22
5		5		5		5	4,076.40	5	3,782.49	5	3,473.78	5	3,151.54	5	2,820.92	5	2,490.15	5	2,159.32
1/4		1/4		1/4		1/4	4,070.42	1/4	3,776.20	1/4	3,467.20	1/4	3,144.68	1/4	2,814.03	1/4	2,483.26	1/4	2,152.43
1/2		1/2		1/2		1/2	4,064.44	1/2	3,769.90	1/2	3,460.62	1/2	3,137.82	1/2	2,807.14	1/2	2,476.37	1/2	2,145.54
3/4		3/4		3/4		3/4	4,058.45	3/4	3,763.61	3/4	3,454.03	3/4	3,130.97	3/4	2,800.24	3/4	2,469.48	3/4	2,138.65
6		6		6		6	4,052.45	6	3,757.28	6	3,447.43	6	3,124.09	6	2,793.35	6	2,462.59	6	2,131.75
1/4		1/4		1/4	4,345.17	1/4	4,046.44	1/4	3,750.96	1/4	3,440.83	1/4	3,117.21	1/4	2,786.46	1/4	2,455.69	1/4	2,124.86
1/2		1/2		1/2	4,340.00	1/2	4,040.44	1/2	3,744.63	1/2	3,434.23	1/2	3,110.33	1/2	2,779.57	1/2	2,448.80	1/2	2,117.97
3/4		3/4		3/4	4,334.83	3/4	4,034.43	3/4	3,738.31	3/4	3,427.63	3/4	3,103.45	3/4	2,772.68	3/4	2,441.91	3/4	2,111.08
7		7		7	4,327.94	7	4,028.40	7	3,731.96	7	3,421.01	7	3,096.56	7	2,765.79	7	2,435.02	7	2,104.19
1/4		1/4		1/4	4,321.05	1/4	4,022.37	1/4	3,725.62	1/4	3,414.38	1/4	3,089.67	1/4	2,758.90	1/4	2,428.13	1/4	2,097.29
1/2		1/2		1/2	4,314.16	1/2	4,016.33	1/2	3,719.28	1/2	3,407.76	1/2	3,082.78	1/2	2,752.01	1/2	2,421.24	1/2	2,090.40
3/4		3/4		3/4	4,307.26	3/4	4,010.30	3/4	3,712.93	3/4	3,401.14	3/4	3,075.88	3/4	2,745.12	3/4	2,414.34	3/4	2,083.51
8		8		8	4,300.37	8	4,004.25	8	3,706.57	8	3,394.49	8	3,068.99	8	2,738.23	8	2,407.45	8	2,076.62
1/4		1/4		1/4	4,293.48	1/4	3,998.19	1/4	3,700.20	1/4	3,387.84	1/4	3,062.10	1/4	2,731.33	1/4	2,400.56	1/4	2,069.72
1/2		1/2		1/2	4,286.59	1/2	3,992.14	1/2	3,693.84	1/2	3,381.19	1/2	3,055.21	1/2	2,724.44	1/2	2,393.67	1/2	2,062.83
3/4		3/4		3/4	4,279.69	3/4	3,986.09	3/4	3,687.47	3/4	3,374.53	3/4	3,048.32	3/4	2,717.55	3/4	2,386.77	3/4	2,055.94
9		9		9	4,272.80	9	3,980.02	9	3,681.08	9	3,367.86	9	3,041.43	9	2,710.66	9	2,379.88	9	2,049.05
1/4		1/4		1/4	4,265.91	1/4	3,973.94	1/4	3,674.68	1/4	3,361.19	1/4	3,034.54	1/4	2,703.77	1/4	2,372.99	1/4	2,042.15
1/2		1/2		1/2	4,259.02	1/2	3,967.87	1/2	3,668.29	1/2	3,354.52	1/2	3,027.65	1/2	2,696.88	1/2	2,366.10	1/2	2,035.26
3/4		3/4		3/4	4,252.13	3/4	3,961.79	3/4	3,661.90	3/4	3,347.85	3/4	3,020.76	3/4	2,689.99	3/4	2,359.20	3/4	2,028.37
10		10		10	4,245.23	10	3,955.69	10	3,655.48	10	3,341.16	10	3,013.87	10	2,683.10	10	2,352.31	10	2,021.48
1/4		1/4		1/4	4,238.34	1/4	3,949.59	1/4	3,649.07	1/4	3,334.47	1/4	3,006.97	1/4	2,676.21	1/4	2,345.42	1/4	2,014.58
1/2		1/2		1/2	4,231.45	1/2	3,943.49	1/2	3,642.66	1/2	3,327.77	1/2	3,000.08	1/2	2,669.32	1/2	2,338.53	1/2	2,007.69
3/4		3/4		3/4	4,224.56	3/4	3,937.39	3/4	3,636.24	3/4	3,321.08	3/4	2,993.19	3/4	2,662.42	3/4	2,331.63	3/4	2,000.80
11		11		11	4,218.68	11	3,931.26	11	3,629.81	11	3,314.36	11	2,986.30	11	2,655.53	11	2,324.74	11	1,993.91
1/4		1/4		1/4	4,212.80	1/4	3,925.14	1/4	3,623.37	1/4	3,307.64	1/4	2,979.41	1/4	2,648.64	1/4	2,317.85	1/4	1,987.01
1/2		1/2		1/2	4,206.92	1/2	3,919.02	1/2	3,616.94	1/2	3,300.92	1/2	2,972.52	1/2	2,641.75	1/2	2,310.96	1/2	1,980.12
3/4		3/4		3/4	4,201.04	3/4	3,912.90	3/4	3,610.50	3/4	3,294.20	3/4	2,965.63	3/4	2,634.86	3/4	2,304.06	3/4	1,973.23

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 37'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 29052"

1 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	1,966.34	0	1,635.50	0	1,304.67	0	974.40	0	660.82	0	368.68	0	100.09	0		0		0	
1/4	1,959.44	1/4	1,628.61	1/4	1,297.77	1/4	967.63	1/4	654.50	1/4	362.85	1/4	94.75	1/4		1/4		1/4	
1/2	1,952.55	1/2	1,621.72	1/2	1,290.88	1/2	960.85	1/2	648.18	1/2	357.02	1/2	89.41	1/2		1/2		1/2	
3/4	1,945.66	3/4	1,614.82	3/4	1,283.99	3/4	954.08	3/4	641.85	3/4	351.19	3/4	84.07	3/4		3/4		3/4	
1	1,938.77	1	1,607.93	1	1,277.10	1	947.36	1	635.57	1	345.40	1	78.78	1		1		1	
1/4	1,931.88	1/4	1,601.04	1/4	1,270.20	1/4	940.64	1/4	629.29	1/4	339.61	1/4	73.48	1/4		1/4		1/4	
1/2	1,924.98	1/2	1,594.15	1/2	1,263.31	1/2	933.93	1/2	623.01	1/2	333.82	1/2	68.19	1/2		1/2		1/2	
3/4	1,918.09	3/4	1,587.26	3/4	1,256.42	3/4	927.21	3/4	616.74	3/4	328.03	3/4	62.90	3/4		3/4		3/4	
2	1,911.20	2	1,580.36	2	1,249.53	2	920.54	2	610.49	2	322.28	2	57.64	2		2		2	
1/4	1,904.31	1/4	1,573.47	1/4	1,242.64	1/4	913.86	1/4	604.25	1/4	316.53	1/4	52.38	1/4		1/4		1/4	
1/2	1,897.41	1/2	1,566.58	1/2	1,235.74	1/2	907.18	1/2	598.01	1/2	310.78	1/2	47.12	1/2		1/2		1/2	
3/4	1,890.52	3/4	1,559.69	3/4	1,228.85	3/4	900.51	3/4	591.77	3/4	305.03	3/4	41.87	3/4		3/4		3/4	
3	1,883.63	3	1,552.79	3	1,221.96	3	893.87	3	585.58	3	299.32	3	37.52	3		3		3	
1/4	1,876.74	1/4	1,545.90	1/4	1,215.07	1/4	887.24	1/4	579.38	1/4	293.62	1/4	33.17	1/4		1/4		1/4	
1/2	1,869.84	1/2	1,539.01	1/2	1,208.17	1/2	880.60	1/2	573.18	1/2	287.91	1/2	28.81	1/2		1/2		1/2	
3/4	1,862.95	3/4	1,532.12	3/4	1,201.28	3/4	873.97	3/4	566.98	3/4	282.20	3/4	24.46	3/4		3/4		3/4	
4	1,856.06	4	1,525.22	4	1,194.39	4	867.37	4	560.82	4	276.54	4	21.87	4		4		4	
1/4	1,849.17	1/4	1,518.33	1/4	1,187.50	1/4	860.78	1/4	554.66	1/4	270.87	1/4	19.29	1/4		1/4		1/4	
1/2	1,842.27	1/2	1,511.44	1/2	1,180.60	1/2	854.18	1/2	548.51	1/2	265.20	1/2	16.70	1/2		1/2		1/2	
3/4	1,835.38	3/4	1,504.55	3/4	1,173.71	3/4	847.59	3/4	542.35	3/4	259.53	3/4	14.11	3/4		3/4		3/4	
5	1,828.49	5	1,497.65	5	1,166.82	5	841.04	5	536.23	5	253.90	5		5		5		5	
1/4	1,821.60	1/4	1,490.76	1/4	1,159.93	1/4	834.48	1/4	530.12	1/4	248.28	1/4		1/4		1/4		1/4	
1/2	1,814.70	1/2	1,483.87	1/2	1,153.03	1/2	827.93	1/2	524.00	1/2	242.66	1/2		1/2		1/2		1/2	
3/4	1,807.81	3/4	1,476.98	3/4	1,146.14	3/4	821.38	3/4	517.88	3/4	237.03	3/4		3/4		3/4		3/4	
6	1,800.92	6	1,470.08	6	1,139.25	6	814.87	6	511.81	6	231.44	6		6		6		6	
1/4	1,794.03	1/4	1,463.19	1/4	1,132.36	1/4	808.35	1/4	505.73	1/4	225.86	1/4		1/4		1/4		1/4	
1/2	1,787.13	1/2	1,456.30	1/2	1,125.46	1/2	801.84	1/2	499.65	1/2	220.27	1/2		1/2		1/2		1/2	
3/4	1,780.24	3/4	1,449.41	3/4	1,118.57	3/4	795.33	3/4	493.58	3/4	214.68	3/4		3/4		3/4		3/4	
7	1,773.35	7	1,442.51	7	1,111.68	7	788.86	7	487.54	7	209.14	7		7		7		7	
1/4	1,766.46	1/4	1,435.62	1/4	1,104.79	1/4	782.38	1/4	481.51	1/4	203.60	1/4		1/4		1/4		1/4	
1/2	1,759.57	1/2	1,428.73	1/2	1,097.89	1/2	775.91	1/2	475.47	1/2	198.05	1/2		1/2		1/2		1/2	
3/4	1,752.67	3/4	1,421.84	3/4	1,091.00	3/4	769.44	3/4	469.44	3/4	192.51	3/4		3/4		3/4		3/4	
8	1,745.78	8	1,414.95	8	1,084.11	8	763.01	8	463.44	8	187.01	8		8		8		8	
1/4	1,738.89	1/4	1,408.05	1/4	1,077.22	1/4	756.58	1/4	457.45	1/4	181.50	1/4		1/4		1/4		1/4	
1/2	1,732.00	1/2	1,401.16	1/2	1,070.33	1/2	750.15	1/2	451.45	1/2	175.99	1/2		1/2		1/2		1/2	
3/4	1,725.10	3/4	1,394.27	3/4	1,063.44	3/4	743.72	3/4	445.46	3/4	170.49	3/4		3/4		3/4		3/4	
9	1,718.21	9	1,387.38	9	1,056.55	9	737.31	9	439.51	9	165.03	9		9		9		9	
1/4	1,711.32	1/4	1,380.48	1/4	1,049.67	1/4	730.90	1/4	433.55	1/4	159.57	1/4		1/4		1/4		1/4	
1/2	1,704.43	1/2	1,373.59	1/2	1,042.79	1/2	724.49	1/2	427.60	1/2	154.11	1/2		1/2		1/2		1/2	
3/4	1,697.53	3/4	1,366.70	3/4	1,035.90	3/4	718.09	3/4	421.65	3/4	148.65	3/4		3/4		3/4		3/4	
10	1,690.64	10	1,359.81	10	1,029.04	10	711.71	10	415.74	10	143.22	10		10		10		10	
1/4	1,683.75	1/4	1,352.91	1/4	1,022.17	1/4	705.34	1/4	409.82	1/4	137.79	1/4		1/4		1/4		1/4	
1/2	1,676.86	1/2	1,346.02	1/2	1,015.30	1/2	698.96	1/2	403.91	1/2	132.37	1/2		1/2		1/2		1/2	
3/4	1,669.96	3/4	1,339.13	3/4	1,008.43	3/4	692.59	3/4	398.00	3/4	126.94	3/4		3/4		3/4		3/4	
11	1,663.07	11	1,332.24	11	1,001.62	11	686.23	11	392.12	11	121.57	11		11		11		11	
1/4	1,656.18	1/4	1,325.34	1/4	994.81	1/4	679.87	1/4	386.25	1/4	116.19	1/4		1/4		1/4		1/4	
1/2	1,649.29	1/2	1,318.45	1/2	987.99	1/2	673.50	1/2	380.38	1/2	110.81	1/2		1/2		1/2		1/2	
3/4	1,642.39	3/4	1,311.56	3/4	981.18	3/4	667.14	3/4	374.51	3/4	105.43	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/18/2013 CL
CALCULATED: 01/19/2013 CL
PRINTED: 01/19/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2013

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "KIRBY 29052"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0		0		0	5,088.00	0	4,750.53	0	4,395.31	0	4,023.55	0	3,637.69	0	3,249.61	0	2,861.48
1/4		1/4		1/4		1/4	5,081.07	1/4	4,743.35	1/4	4,387.72	1/4	4,015.64	1/4	3,629.61	1/4	3,241.53	1/4	2,853.39
1/2		1/2		1/2		1/2	5,074.15	1/2	4,736.17	1/2	4,380.14	1/2	4,007.73	1/2	3,621.52	1/2	3,233.44	1/2	2,845.30
3/4		3/4		3/4		3/4	5,067.20	3/4	4,728.96	3/4	4,372.54	3/4	3,999.79	3/4	3,613.44	3/4	3,225.36	3/4	2,837.22
1		1		1		1	5,060.25	1	4,721.76	1	4,364.93	1	3,991.85	1	3,605.35	1	3,217.28	1	2,829.13
1/4		1/4		1/4		1/4	5,053.31	1/4	4,714.55	1/4	4,357.32	1/4	3,983.90	1/4	3,597.27	1/4	3,209.19	1/4	2,821.04
1/2		1/2		1/2		1/2	5,046.36	1/2	4,707.34	1/2	4,349.72	1/2	3,975.96	1/2	3,589.18	1/2	3,201.11	1/2	2,812.95
3/4		3/4		3/4		3/4	5,039.38	3/4	4,700.11	3/4	4,342.08	3/4	3,967.99	3/4	3,581.10	3/4	3,193.02	3/4	2,804.87
2		2		2		2	5,032.40	2	4,692.87	2	4,334.45	2	3,960.03	2	3,573.01	2	3,184.94	2	2,796.78
1/4		1/4		1/4		1/4	5,025.42	1/4	4,685.64	1/4	4,326.82	1/4	3,952.06	1/4	3,564.93	1/4	3,176.85	1/4	2,788.69
1/2		1/2		1/2		1/2	5,018.44	1/2	4,678.41	1/2	4,319.19	1/2	3,944.10	1/2	3,556.84	1/2	3,168.77	1/2	2,780.60
3/4		3/4		3/4		3/4	5,011.50	3/4	4,671.08	3/4	4,311.52	3/4	3,936.11	3/4	3,548.76	3/4	3,160.68	3/4	2,772.52
3		3		3		3	5,004.57	3	4,663.75	3	4,303.86	3	3,928.12	3	3,540.67	3	3,152.60	3	2,764.43
1/4		1/4		1/4		1/4	4,997.64	1/4	4,656.42	1/4	4,296.20	1/4	3,920.13	1/4	3,532.59	1/4	3,144.51	1/4	2,756.34
1/2		1/2		1/2		1/2	4,990.70	1/2	4,649.09	1/2	4,288.54	1/2	3,912.14	1/2	3,524.50	1/2	3,136.43	1/2	2,748.25
3/4		3/4		3/4		3/4	4,983.74	3/4	4,641.73	3/4	4,280.85	3/4	3,904.11	3/4	3,516.42	3/4	3,128.34	3/4	2,740.17
4		4		4		4	4,976.79	4	4,634.36	4	4,273.16	4	3,896.09	4	3,508.33	4	3,120.26	4	2,732.08
1/4		1/4		1/4		1/4	4,969.83	1/4	4,627.00	1/4	4,265.47	1/4	3,888.06	1/4	3,500.25	1/4	3,112.17	1/4	2,723.99
1/2		1/2		1/2		1/2	4,962.87	1/2	4,619.64	1/2	4,257.78	1/2	3,880.04	1/2	3,492.16	1/2	3,104.09	1/2	2,715.90
3/4		3/4		3/4		3/4	4,955.88	3/4	4,612.26	3/4	4,250.06	3/4	3,871.99	3/4	3,484.08	3/4	3,096.00	3/4	2,707.82
5		5		5		5	4,948.89	5	4,604.87	5	4,242.34	5	3,863.94	5	3,475.99	5	3,087.92	5	2,699.73
1/4		1/4		1/4		1/4	4,941.90	1/4	4,597.48	1/4	4,234.61	1/4	3,855.90	1/4	3,467.91	1/4	3,079.83	1/4	2,691.64
1/2		1/2		1/2		1/2	4,934.91	1/2	4,590.10	1/2	4,226.89	1/2	3,847.85	1/2	3,459.82	1/2	3,071.75	1/2	2,683.55
3/4		3/4		3/4		3/4	4,927.89	3/4	4,582.68	3/4	4,219.15	3/4	3,839.78	3/4	3,451.74	3/4	3,063.66	3/4	2,675.47
6		6		6	5,270.97	6	4,920.88	6	4,575.26	6	4,211.40	6	3,831.70	6	3,443.65	6	3,055.58	6	2,667.38
1/4		1/4		1/4	5,264.91	1/4	4,913.86	1/4	4,567.84	1/4	4,203.66	1/4	3,823.63	1/4	3,435.57	1/4	3,047.49	1/4	2,659.29
1/2		1/2		1/2	5,258.84	1/2	4,906.84	1/2	4,560.42	1/2	4,195.91	1/2	3,815.56	1/2	3,427.48	1/2	3,039.41	1/2	2,651.20
3/4		3/4		3/4	5,250.75	3/4	4,899.80	3/4	4,552.97	3/4	4,188.14	3/4	3,807.47	3/4	3,419.40	3/4	3,031.32	3/4	2,643.11
7		7		7	5,242.67	7	4,892.75	7	4,545.53	7	4,180.37	7	3,799.39	7	3,411.31	7	3,023.23	7	2,635.03
1/4		1/4		1/4	5,234.58	1/4	4,885.70	1/4	4,538.09	1/4	4,172.60	1/4	3,791.30	1/4	3,403.23	1/4	3,015.14	1/4	2,626.94
1/2		1/2		1/2	5,226.49	1/2	4,878.66	1/2	4,530.64	1/2	4,164.83	1/2	3,783.22	1/2	3,395.14	1/2	3,007.06	1/2	2,618.85
3/4		3/4		3/4	5,218.40	3/4	4,871.59	3/4	4,523.18	3/4	4,157.03	3/4	3,775.13	3/4	3,387.06	3/4	2,998.97	3/4	2,610.76
8		8		8	5,210.32	8	4,864.52	8	4,515.71	8	4,149.23	8	3,767.05	8	3,378.97	8	2,990.88	8	2,602.68
1/4		1/4		1/4	5,202.23	1/4	4,857.45	1/4	4,508.24	1/4	4,141.42	1/4	3,758.96	1/4	3,370.89	1/4	2,982.79	1/4	2,594.59
1/2		1/2		1/2	5,194.14	1/2	4,850.38	1/2	4,500.77	1/2	4,133.62	1/2	3,750.88	1/2	3,362.80	1/2	2,974.71	1/2	2,586.50
3/4		3/4		3/4	5,186.05	3/4	4,843.28	3/4	4,493.27	3/4	4,125.79	3/4	3,742.79	3/4	3,354.72	3/4	2,966.62	3/4	2,578.41
9		9		9	5,177.96	9	4,836.19	9	4,485.77	9	4,117.97	9	3,734.71	9	3,346.63	9	2,958.53	9	2,570.33
1/4		1/4		1/4	5,169.88	1/4	4,829.09	1/4	4,478.27	1/4	4,110.14	1/4	3,726.62	1/4	3,338.55	1/4	2,950.44	1/4	2,562.24
1/2		1/2		1/2	5,161.79	1/2	4,822.00	1/2	4,470.77	1/2	4,102.31	1/2	3,718.54	1/2	3,330.46	1/2	2,942.36	1/2	2,554.15
3/4		3/4		3/4	5,153.70	3/4	4,814.87	3/4	4,463.24	3/4	4,094.46	3/4	3,710.45	3/4	3,322.38	3/4	2,934.27	3/4	2,546.06
10		10		10	5,145.61	10	4,807.74	10	4,455.72	10	4,086.61	10	3,702.37	10	3,314.29	10	2,926.18	10	2,537.98
1/4		1/4		1/4	5,137.53	1/4	4,800.61	1/4	4,448.19	1/4	4,078.76	1/4	3,694.28	1/4	3,306.21	1/4	2,918.09	1/4	2,529.89
1/2		1/2		1/2	5,129.44	1/2	4,793.49	1/2	4,440.67	1/2	4,070.90	1/2	3,686.20	1/2	3,298.12	1/2	2,910.01	1/2	2,521.80
3/4		3/4		3/4	5,122.54	3/4	4,786.33	3/4	4,433.12	3/4	4,063.02	3/4	3,678.11	3/4	3,290.04	3/4	2,901.92	3/4	2,513.71
11		11		11	5,115.64	11	4,779.18	11	4,425.57	11	4,055.14	11	3,670.03	11	3,281.95	11	2,893.83	11	2,505.63
1/4		1/4		1/4	5,108.74	1/4	4,772.03	1/4	4,418.02	1/4	4,047.25	1/4	3,661.94	1/4	3,273.87	1/4	2,885.74	1/4	2,497.54
1/2		1/2		1/2	5,101.84	1/2	4,764.88	1/2	4,410.47	1/2	4,039.37	1/2	3,653.86	1/2	3,265.78	1/2	2,877.66	1/2	2,489.45
3/4		3/4		3/4	5,094.92	3/4	4,757.70	3/4	4,402.89	3/4	4,031.46	3/4	3,645.77	3/4	3,257.70	3/4	2,869.57	3/4	2,481.36

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 44'-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 29052"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 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	2,473.28	0	2,085.07	0	1,696.87	0	1,308.66	0	920.46	0	533.14	0	145.35	0		0		0	
1/4	2,465.19	1/4	2,076.98	1/4	1,688.78	1/4	1,300.57	1/4	912.37	1/4	525.06	1/4	137.28	1/4		1/4		1/4	
1/2	2,457.10	1/2	2,068.90	1/2	1,680.69	1/2	1,292.49	1/2	904.28	1/2	516.98	1/2	129.20	1/2		1/2		1/2	
3/4	2,449.01	3/4	2,060.81	3/4	1,672.60	3/4	1,284.40	3/4	896.21	3/4	508.90	3/4	121.12	3/4		3/4		3/4	
1	2,440.92	1	2,052.72	1	1,664.52	1	1,276.31	1	888.13	1	500.83	1	113.04	1		1		1	
1/4	2,432.84	1/4	2,044.63	1/4	1,656.43	1/4	1,268.22	1/4	880.05	1/4	492.75	1/4	104.96	1/4		1/4		1/4	
1/2	2,424.75	1/2	2,036.54	1/2	1,648.34	1/2	1,260.14	1/2	871.98	1/2	484.67	1/2	96.88	1/2		1/2		1/2	
3/4	2,416.66	3/4	2,028.46	3/4	1,640.25	3/4	1,252.05	3/4	863.92	3/4	476.59	3/4	88.80	3/4		3/4		3/4	
2	2,408.57	2	2,020.37	2	1,632.16	2	1,243.96	2	855.85	2	468.51	2	80.72	2		2		2	
1/4	2,400.49	1/4	2,012.28	1/4	1,624.08	1/4	1,235.87	1/4	847.79	1/4	460.43	1/4	72.64	1/4		1/4		1/4	
1/2	2,392.40	1/2	2,004.19	1/2	1,615.99	1/2	1,227.78	1/2	839.73	1/2	452.35	1/2	64.56	1/2		1/2		1/2	
3/4	2,384.31	3/4	1,996.11	3/4	1,607.90	3/4	1,219.70	3/4	831.66	3/4	444.27	3/4	57.50	3/4		3/4		3/4	
3	2,376.22	3	1,988.02	3	1,599.81	3	1,211.61	3	823.60	3	436.19	3	50.43	3		3		3	
1/4	2,368.14	1/4	1,979.93	1/4	1,591.73	1/4	1,203.52	1/4	815.54	1/4	428.12	1/4	43.36	1/4		1/4		1/4	
1/2	2,360.05	1/2	1,971.84	1/2	1,583.64	1/2	1,195.43	1/2	807.47	1/2	420.04	1/2	36.29	1/2		1/2		1/2	
3/4	2,351.96	3/4	1,963.76	3/4	1,575.55	3/4	1,187.35	3/4	799.41	3/4	411.96	3/4	31.24	3/4		3/4		3/4	
4	2,343.87	4	1,955.67	4	1,567.46	4	1,179.26	4	791.35	4	403.88	4	26.20	4		4		4	
1/4	2,335.79	1/4	1,947.58	1/4	1,559.38	1/4	1,171.17	1/4	783.29	1/4	395.80	1/4	21.15	1/4		1/4		1/4	
1/2	2,327.70	1/2	1,939.49	1/2	1,551.29	1/2	1,163.08	1/2	775.22	1/2	387.72	1/2	16.10	1/2		1/2		1/2	
3/4	2,319.61	3/4	1,931.41	3/4	1,543.20	3/4	1,155.00	3/4	767.16	3/4	379.64	3/4		3/4		3/4		3/4	
5	2,311.52	5	1,923.32	5	1,535.11	5	1,146.91	5	759.10	5	371.56	5		5		5		5	
1/4	2,303.44	1/4	1,915.23	1/4	1,527.03	1/4	1,138.82	1/4	751.03	1/4	363.48	1/4		1/4		1/4		1/4	
1/2	2,295.35	1/2	1,907.14	1/2	1,518.94	1/2	1,130.73	1/2	742.97	1/2	355.41	1/2		1/2		1/2		1/2	
3/4	2,287.26	3/4	1,899.06	3/4	1,510.85	3/4	1,122.65	3/4	734.91	3/4	347.33	3/4		3/4		3/4		3/4	
6	2,279.17	6	1,890.97	6	1,502.76	6	1,114.56	6	726.84	6	339.25	6		6		6		6	
1/4	2,271.09	1/4	1,882.88	1/4	1,494.68	1/4	1,106.47	1/4	718.78	1/4	331.17	1/4		1/4		1/4		1/4	
1/2	2,263.00	1/2	1,874.79	1/2	1,486.59	1/2	1,098.38	1/2	710.72	1/2	323.09	1/2		1/2		1/2		1/2	
3/4	2,254.91	3/4	1,866.71	3/4	1,478.50	3/4	1,090.30	3/4	702.65	3/4	315.01	3/4		3/4		3/4		3/4	
7	2,246.82	7	1,858.62	7	1,470.41	7	1,082.21	7	694.59	7	306.93	7		7		7		7	
1/4	2,238.73	1/4	1,850.53	1/4	1,462.33	1/4	1,074.12	1/4	686.53	1/4	298.85	1/4		1/4		1/4		1/4	
1/2	2,230.65	1/2	1,842.44	1/2	1,454.24	1/2	1,066.03	1/2	678.46	1/2	290.77	1/2		1/2		1/2		1/2	
3/4	2,222.56	3/4	1,834.35	3/4	1,446.15	3/4	1,057.95	3/4	670.40	3/4	282.70	3/4		3/4		3/4		3/4	
8	2,214.47	8	1,826.27	8	1,438.06	8	1,049.86	8	662.34	8	274.62	8		8		8		8	
1/4	2,206.38	1/4	1,818.18	1/4	1,429.97	1/4	1,041.77	1/4	654.28	1/4	266.54	1/4		1/4		1/4		1/4	
1/2	2,198.30	1/2	1,810.09	1/2	1,421.89	1/2	1,033.68	1/2	646.21	1/2	258.46	1/2		1/2		1/2		1/2	
3/4	2,190.21	3/4	1,802.00	3/4	1,413.80	3/4	1,025.59	3/4	638.14	3/4	250.38	3/4		3/4		3/4		3/4	
9	2,182.12	9	1,793.92	9	1,405.71	9	1,017.51	9	630.07	9	242.30	9		9		9		9	
1/4	2,174.03	1/4	1,785.83	1/4	1,397.62	1/4	1,009.42	1/4	622.00	1/4	234.22	1/4		1/4		1/4		1/4	
1/2	2,165.95	1/2	1,777.74	1/2	1,389.54	1/2	1,001.33	1/2	613.93	1/2	226.14	1/2		1/2		1/2		1/2	
3/4	2,157.86	3/4	1,769.65	3/4	1,381.45	3/4	993.24	3/4	605.85	3/4	218.06	3/4		3/4		3/4		3/4	
10	2,149.77	10	1,761.57	10	1,373.36	10	985.16	10	597.77	10	209.99	10		10		10		10	
1/4	2,141.68	1/4	1,753.48	1/4	1,365.27	1/4	977.07	1/4	589.69	1/4	201.91	1/4		1/4		1/4		1/4	
1/2	2,133.60	1/2	1,745.39	1/2	1,357.19	1/2	968.98	1/2	581.61	1/2	193.83	1/2		1/2		1/2		1/2	
3/4	2,125.51	3/4	1,737.30	3/4	1,349.10	3/4	960.89	3/4	573.54	3/4	185.75	3/4		3/4		3/4		3/4	
11	2,117.42	11	1,729.22	11	1,341.01	11	952.81	11	565.46	11	177.67	11		11		11		11	
1/4	2,109.33	1/4	1,721.13	1/4	1,332.92	1/4	944.72	1/4	557.38	1/4	169.59	1/4		1/4		1/4		1/4	
1/2	2,101.25	1/2	1,713.04	1/2	1,324.84	1/2	936.63	1/2	549.30	1/2	161.51	1/2		1/2		1/2		1/2	
3/4	2,093.16	3/4	1,704.95	3/4	1,316.75	3/4	928.54	3/4	541.22	3/4	153.43	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/18/2013 CL
CALCULATED: 01/19/2013 CL
PRINTED: 01/19/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2013

PRECISION MEASUREMENT
& ANALYSIS, INC.
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<http://www.pmacorp.net>



BARGE "KIRBY 29052"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.		
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	
0		0		0		0	5,080.21	0	4,742.32	0	4,386.66	0	4,014.46	0	3,628.13	0	3,239.57	0	2,850.97	
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,073.28	1/4	4,735.13	1/4	4,379.07	1/4	4,006.54	1/4	3,620.03	1/4	3,231.48	1/4	2,842.87	
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,066.34	1/2	4,727.95	1/2	4,371.48	1/2	3,998.62	1/2	3,611.94	1/2	3,223.38	1/2	2,834.77	
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,059.39	3/4	4,720.73	3/4	4,363.86	3/4	3,990.67	3/4	3,603.84	3/4	3,215.29	3/4	2,826.67	
1		1		1		1	5,052.43	1	4,713.51	1	4,356.25	1	3,982.71	1	3,595.75	1	3,207.19	1	2,818.58	
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,045.47	1/4	4,706.29	1/4	4,348.63	1/4	3,974.76	1/4	3,587.65	1/4	3,199.10	1/4	2,810.48	
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,038.52	1/2	4,699.08	1/2	4,341.02	1/2	3,966.80	1/2	3,579.56	1/2	3,191.00	1/2	2,802.38	
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,031.53	3/4	4,691.83	3/4	4,333.37	3/4	3,958.83	3/4	3,571.46	3/4	3,182.91	3/4	2,794.29	
2		2		2		2	5,024.54	2	4,684.59	2	4,325.73	2	3,950.86	2	3,563.37	2	3,174.81	2	2,786.19	
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,017.55	1/4	4,677.35	1/4	4,318.09	1/4	3,942.88	1/4	3,555.27	1/4	3,166.72	1/4	2,778.09	
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,010.56	1/2	4,670.11	1/2	4,310.45	1/2	3,934.91	1/2	3,547.18	1/2	3,158.62	1/2	2,769.99	
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,003.62	3/4	4,662.77	3/4	4,302.78	3/4	3,926.91	3/4	3,539.08	3/4	3,150.53	3/4	2,761.90	
3		3		3		3	4,996.68	3	4,655.43	3	4,295.11	3	3,918.91	3	3,530.99	3	3,142.43	3	2,753.80	
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,989.74	1/4	4,648.09	1/4	4,287.43	1/4	3,910.91	1/4	3,522.89	1/4	3,134.34	1/4	2,745.70	
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,982.79	1/2	4,640.75	1/2	4,279.76	1/2	3,902.91	1/2	3,514.80	1/2	3,126.24	1/2	2,737.61	
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,975.82	3/4	4,633.38	3/4	4,272.06	3/4	3,894.87	3/4	3,506.70	3/4	3,118.15	3/4	2,729.51	
4		4		4		4	4,968.86	4	4,626.01	4	4,264.37	4	3,886.84	4	3,498.61	4	3,110.05	4	2,721.41	
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,961.89	1/4	4,618.64	1/4	4,256.67	1/4	3,878.80	1/4	3,490.51	1/4	3,101.96	1/4	2,713.31	
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,954.92	1/2	4,611.27	1/2	4,248.97	1/2	3,870.77	1/2	3,482.42	1/2	3,093.86	1/2	2,705.22	
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,947.92	3/4	4,603.88	3/4	4,241.24	3/4	3,862.71	3/4	3,474.32	3/4	3,085.77	3/4	2,697.12	
5		5		5		5	4,940.92	5	4,596.48	5	4,233.51	5	3,854.66	5	3,466.23	5	3,077.67	5	2,689.02	
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,933.93	1/4	4,589.09	1/4	4,225.77	1/4	3,846.60	1/4	3,458.13	1/4	3,069.58	1/4	2,680.93	
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,926.93	1/2	4,581.69	1/2	4,218.04	1/2	3,838.54	1/2	3,450.04	1/2	3,061.48	1/2	2,672.83	
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,919.90	3/4	4,574.26	3/4	4,210.29	3/4	3,830.46	3/4	3,441.94	3/4	3,053.39	3/4	2,664.73	
6		6	5,263.40	6	4,912.88	6	4,566.83	6	4,202.53	6	3,822.38	6	3,433.85	6	3,045.29	6	2,656.63			
1/4	1/4	1/4	5,257.33	1/4	4,905.85	1/4	4,559.40	1/4	4,194.78	1/4	3,814.30	1/4	3,425.75	1/4	3,037.20	1/4	2,648.54			
1/2	1/2	1/2	5,251.26	1/2	4,898.83	1/2	4,551.97	1/2	4,187.03	1/2	3,806.22	1/2	3,417.66	1/2	3,029.10	1/2	2,640.44			
3/4	3/4	3/4	5,243.16	3/4	4,891.77	3/4	4,544.52	3/4	4,179.25	3/4	3,798.12	3/4	3,409.57	3/4	3,021.01	3/4	2,632.34			
7		7	5,235.06	7	4,884.72	7	4,537.07	7	4,171.47	7	3,790.03	7	3,401.47	7	3,012.91	7	2,624.24			
1/4	1/4	1/4	5,226.97	1/4	4,877.66	1/4	4,529.62	1/4	4,163.69	1/4	3,781.93	1/4	3,393.38	1/4	3,004.81	1/4	2,616.15			
1/2	1/2	1/2	5,218.87	1/2	4,870.61	1/2	4,522.16	1/2	4,155.91	1/2	3,773.84	1/2	3,385.28	1/2	2,996.72	1/2	2,608.05			
3/4	3/4	3/4	5,210.77	3/4	4,863.53	3/4	4,514.69	3/4	4,148.09	3/4	3,765.74	3/4	3,377.19	3/4	2,988.62	3/4	2,599.95			
8		8	5,202.67	8	4,856.45	8	4,507.21	8	4,140.28	8	3,757.65	8	3,369.09	8	2,980.52	8	2,591.86			
1/4	1/4	1/4	5,194.58	1/4	4,849.37	1/4	4,499.73	1/4	4,132.47	1/4	3,749.55	1/4	3,361.00	1/4	2,972.42	1/4	2,583.76			
1/2	1/2	1/2	5,186.48	1/2	4,842.29	1/2	4,492.26	1/2	4,124.66	1/2	3,741.46	1/2	3,352.90	1/2	2,964.33	1/2	2,575.66			
3/4	3/4	3/4	5,178.38	3/4	4,835.19	3/4	4,484.75	3/4	4,116.82	3/4	3,733.36	3/4	3,344.81	3/4	2,956.23	3/4	2,567.56			
9		9	5,170.29	9	4,828.08	9	4,477.23	9	4,108.98	9	3,725.27	9	3,336.71	9	2,948.13	9	2,559.47			
1/4	1/4	1/4	5,162.19	1/4	4,820.98	1/4	4,469.72	1/4	4,101.15	1/4	3,717.17	1/4	3,328.62	1/4	2,940.04	1/4	2,551.37			
1/2	1/2	1/2	5,154.09	1/2	4,813.88	1/2	4,462.21	1/2	4,093.31	1/2	3,709.08	1/2	3,320.52	1/2	2,931.94	1/2	2,543.27			
3/4	3/4	3/4	5,145.99	3/4	4,806.74	3/4	4,454.68	3/4	4,085.45	3/4	3,700.98	3/4	3,312.43	3/4	2,923.84	3/4	2,535.18			
10		10	5,137.90	10	4,799.60	10	4,447.15	10	4,077.59	10	3,692.89	10	3,304.33	10	2,915.74	10	2,527.08			
1/4	1/4	1/4	5,129.80	1/4	4,792.47	1/4	4,439.61	1/4	4,069.73	1/4	3,684.79	1/4	3,296.24	1/4	2,907.65	1/4	2,518.98			
1/2	1/2	1/2	5,121.70	1/2	4,785.33	1/2	4,432.08	1/2	4,061.86	1/2	3,676.70	1/2	3,288.14	1/2	2,899.55	1/2	2,510.88			
3/4	3/4	3/4	5,114.79	3/4	4,778.17	3/4	4,424.52	3/4	4,053.97	3/4	3,668.60	3/4	3,280.05	3/4	2,891.45	3/4	2,502.79			
11		11	5,107.89	11	4,771.01	11	4,416.96	11	4,046.08	11	3,660.51	11	3,271.95	11	2,883.36	11	2,494.69			
1/4	1/4	1/4	5,100.98	1/4	4,763.85	1/4	4,409.40	1/4	4,038.19	1/4	3,652.41	1/4	3,263.86	1/4	2,875.26	1/4	2,486.59			
1/2	1/2	1/2	5,094.07	1/2	4,756.69	1/2	4,401.84	1/2	4,030.29	1/2	3,644.32	1/2	3,255.76	1/2	2,867.16	1/2	2,478.50			
3/4	3/4	3/4	5,087.14	3/4	4,749.50	3/4	4,394.25	3/4	4,022.37	3/4	3,636.22	3/4	3,247.67	3/4	2,859.06	3/4	2,470.40			

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 44'-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 29052"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/2"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	2,462.30	0	2,073.64	0	1,684.97	0	1,296.30	0	908.87	0	534.67	0	146.05	0		0		0	
1/4	2,454.20	1/4	2,065.54	1/4	1,676.87	1/4	1,288.21	1/4	901.08	1/4	526.58	1/4	137.96	1/4		1/4		1/4	
1/2	2,446.11	1/2	2,057.44	1/2	1,668.78	1/2	1,280.11	1/2	893.29	1/2	518.48	1/2	129.86	1/2		1/2		1/2	
3/4	2,438.01	3/4	2,049.34	3/4	1,660.68	3/4	1,272.01	3/4	885.52	3/4	510.39	3/4	121.76	3/4		3/4		3/4	
1	2,429.91	1	2,041.25	1	1,652.58	1	1,263.92	1	877.75	1	502.29	1	113.67	1		1		1	
1/4	2,421.81	1/4	2,033.15	1/4	1,644.48	1/4	1,255.82	1/4	869.97	1/4	494.19	1/4	105.57	1/4		1/4		1/4	
1/2	2,413.72	1/2	2,025.05	1/2	1,636.39	1/2	1,247.72	1/2	862.20	1/2	486.10	1/2	97.47	1/2		1/2		1/2	
3/4	2,405.62	3/4	2,016.95	3/4	1,628.29	3/4	1,239.62	3/4	854.44	3/4	478.00	3/4	89.38	3/4		3/4		3/4	
2	2,397.52	2	2,008.86	2	1,620.19	2	1,231.53	2	846.68	2	469.90	2	81.28	2		2		2	
1/4	2,389.43	1/4	2,000.76	1/4	1,612.09	1/4	1,223.43	1/4	838.91	1/4	461.81	1/4	73.19	1/4		1/4		1/4	
1/2	2,381.33	1/2	1,992.66	1/2	1,604.00	1/2	1,215.33	1/2	831.15	1/2	453.71	1/2	65.09	1/2		1/2		1/2	
3/4	2,373.23	3/4	1,984.57	3/4	1,595.90	3/4	1,207.23	3/4	823.39	3/4	445.61	3/4	58.00	3/4		3/4		3/4	
3	2,365.13	3	1,976.47	3	1,587.80	3	1,199.14	3	815.62	3	437.52	3	50.92	3		3		3	
1/4	2,357.04	1/4	1,968.37	1/4	1,579.71	1/4	1,191.04	1/4	807.86	1/4	429.42	1/4	43.83	1/4		1/4		1/4	
1/2	2,348.94	1/2	1,960.27	1/2	1,571.61	1/2	1,182.94	1/2	800.10	1/2	421.33	1/2	36.75	1/2		1/2		1/2	
3/4	2,340.84	3/4	1,952.18	3/4	1,563.51	3/4	1,174.85	3/4	792.34	3/4	413.23	3/4	31.69	3/4		3/4		3/4	
4	2,332.75	4	1,944.08	4	1,555.41	4	1,166.75	4	784.57	4	405.13	4	26.63	4		4		4	
1/4	2,324.65	1/4	1,935.98	1/4	1,547.32	1/4	1,158.65	1/4	776.81	1/4	397.04	1/4	21.56	1/4		1/4		1/4	
1/2	2,316.55	1/2	1,927.89	1/2	1,539.22	1/2	1,150.55	1/2	769.05	1/2	388.94	1/2	16.50	1/2		1/2		1/2	
3/4	2,308.45	3/4	1,919.79	3/4	1,531.12	3/4	1,142.46	3/4	761.28	3/4	380.84	3/4		3/4		3/4		3/4	
5	2,300.36	5	1,911.69	5	1,523.03	5	1,134.36	5	753.52	5	372.75	5		5		5		5	
1/4	2,292.26	1/4	1,903.59	1/4	1,514.93	1/4	1,126.26	1/4	745.76	1/4	364.65	1/4		1/4		1/4		1/4	
1/2	2,284.16	1/2	1,895.50	1/2	1,506.83	1/2	1,118.17	1/2	738.00	1/2	356.56	1/2		1/2		1/2		1/2	
3/4	2,276.07	3/4	1,887.40	3/4	1,498.73	3/4	1,110.07	3/4	730.23	3/4	348.46	3/4		3/4		3/4		3/4	
6	2,267.97	6	1,879.30	6	1,490.64	6	1,101.97	6	722.47	6	340.36	6		6		6		6	
1/4	2,259.87	1/4	1,871.21	1/4	1,482.54	1/4	1,093.87	1/4	714.71	1/4	332.27	1/4		1/4		1/4		1/4	
1/2	2,251.77	1/2	1,863.11	1/2	1,474.44	1/2	1,085.78	1/2	706.94	1/2	324.17	1/2		1/2		1/2		1/2	
3/4	2,243.68	3/4	1,855.01	3/4	1,466.35	3/4	1,077.68	3/4	699.18	3/4	316.07	3/4		3/4		3/4		3/4	
7	2,235.58	7	1,846.91	7	1,458.25	7	1,069.58	7	691.42	7	307.98	7		7		7		7	
1/4	2,227.48	1/4	1,838.82	1/4	1,450.15	1/4	1,061.49	1/4	683.66	1/4	299.88	1/4		1/4		1/4		1/4	
1/2	2,219.38	1/2	1,830.72	1/2	1,442.05	1/2	1,053.39	1/2	675.90	1/2	291.79	1/2		1/2		1/2		1/2	
3/4	2,211.29	3/4	1,822.62	3/4	1,433.96	3/4	1,045.29	3/4	668.14	3/4	283.69	3/4		3/4		3/4		3/4	
8	2,203.19	8	1,814.52	8	1,425.86	8	1,037.19	8	660.38	8	275.59	8		8		8		8	
1/4	2,195.09	1/4	1,806.43	1/4	1,417.76	1/4	1,029.10	1/4	652.62	1/4	267.50	1/4		1/4		1/4		1/4	
1/2	2,187.00	1/2	1,798.33	1/2	1,409.66	1/2	1,021.00	1/2	644.86	1/2	259.40	1/2		1/2		1/2		1/2	
3/4	2,178.90	3/4	1,790.23	3/4	1,401.57	3/4	1,012.90	3/4	637.09	3/4	251.30	3/4		3/4		3/4		3/4	
9	2,170.80	9	1,782.14	9	1,393.47	9	1,004.80	9	629.32	9	243.21	9		9		9		9	
1/4	2,162.70	1/4	1,774.04	1/4	1,385.37	1/4	996.71	1/4	621.55	1/4	235.11	1/4		1/4		1/4		1/4	
1/2	2,154.61	1/2	1,765.94	1/2	1,377.28	1/2	988.61	1/2	613.78	1/2	227.01	1/2		1/2		1/2		1/2	
3/4	2,146.51	3/4	1,757.84	3/4	1,369.18	3/4	980.51	3/4	605.99	3/4	218.92	3/4		3/4		3/4		3/4	
10	2,138.41	10	1,749.75	10	1,361.08	10	972.42	10	598.21	10	210.82	10		10		10		10	
1/4	2,130.32	1/4	1,741.65	1/4	1,352.98	1/4	964.32	1/4	590.42	1/4	202.73	1/4		1/4		1/4		1/4	
1/2	2,122.22	1/2	1,733.55	1/2	1,344.89	1/2	956.22	1/2	582.64	1/2	194.63	1/2		1/2		1/2		1/2	
3/4	2,114.12	3/4	1,725.46	3/4	1,336.79	3/4	948.28	3/4	574.69	3/4	186.53	3/4		3/4		3/4		3/4	
11	2,106.02	11	1,717.36	11	1,328.69	11	940.33	11	566.75	11	178.44	11		11		11		11	
1/4	2,097.93	1/4	1,709.26	1/4	1,320.60	1/4	932.39	1/4	558.81	1/4	170.34	1/4		1/4		1/4		1/4	
1/2	2,089.83	1/2	1,701.16	1/2	1,312.50	1/2	924.44	1/2	550.87	1/2	162.24	1/2		1/2		1/2		1/2	
3/4	2,081.73	3/4	1,693.07	3/4	1,304.40	3/4	916.66	3/4	542.77	3/4	154.15	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/18/2013 CL
CALCULATED: 01/19/2013 CL
PRINTED: 01/19/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2013

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



BARGE "KIRBY 29052"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
							4,484.20		4,227.76		3,958.31		3,676.50		3,380.38		3,023.06		2,662.08		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,478.95	1/4	4,222.30	1/4	3,952.57	1/4	3,670.51	1/4	3,373.56	1/4	3,015.54	1/4	2,654.56		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,473.71	1/2	4,216.84	1/2	3,946.82	1/2	3,664.51	1/2	3,366.73	1/2	3,008.02	1/2	2,647.04		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,468.44	3/4	4,211.36	3/4	3,941.05	3/4	3,658.49	3/4	3,359.63	3/4	3,000.50	3/4	2,639.52		
1	1	1	1	1	1	1	4,463.17	1	4,205.88	1	3,935.29	1	3,652.47	1	3,352.53	1	2,992.98	1	2,632.00		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,457.91	1/4	4,200.40	1/4	3,929.52	1/4	3,646.45	1/4	3,345.43	1/4	2,985.46	1/4	2,624.48		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,452.64	1/2	4,194.92	1/2	3,923.75	1/2	3,640.43	1/2	3,338.32	1/2	2,977.94	1/2	2,616.96		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,447.35	3/4	4,189.42	3/4	3,917.97	3/4	3,634.39	3/4	3,330.94	3/4	2,970.42	3/4	2,609.44		
2	2	2	2	2	2	2	4,442.06	2	4,183.92	2	3,912.18	2	3,628.35	2	3,323.56	2	2,962.90	2	2,601.91		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,436.77	1/4	4,178.42	1/4	3,906.40	1/4	3,622.31	1/4	3,316.18	1/4	2,955.38	1/4	2,594.39		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,431.48	1/2	4,172.92	1/2	3,900.61	1/2	3,616.27	1/2	3,308.80	1/2	2,947.86	1/2	2,586.87		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,426.20	3/4	4,167.36	3/4	3,894.80	3/4	3,610.22	3/4	3,301.28	3/4	2,940.34	3/4	2,579.35		
3	3	3	3	3	3	3	4,420.93	3	4,161.81	3	3,888.99	3	3,604.16	3	3,293.76	3	2,932.82	3	2,571.83		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,415.66	1/4	4,156.25	1/4	3,883.19	1/4	3,598.10	1/4	3,286.24	1/4	2,925.30	1/4	2,564.31		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,410.39	1/2	4,150.69	1/2	3,877.38	1/2	3,592.05	1/2	3,278.72	1/2	2,917.78	1/2	2,556.79		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,405.10	3/4	4,145.11	3/4	3,871.55	3/4	3,585.96	3/4	3,271.20	3/4	2,910.26	3/4	2,549.27		
4	4	4	4	4	4	4	4,399.80	4	4,139.53	4	3,865.72	4	3,579.88	4	3,263.68	4	2,902.74	4	2,541.75		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,394.51	1/4	4,133.95	1/4	3,859.89	1/4	3,573.80	1/4	3,256.16	1/4	2,895.22	1/4	2,534.22		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,389.22	1/2	4,128.37	1/2	3,854.06	1/2	3,567.71	1/2	3,248.65	1/2	2,887.70	1/2	2,526.70		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,383.91	3/4	4,122.77	3/4	3,848.21	3/4	3,561.61	3/4	3,241.13	3/4	2,880.18	3/4	2,519.18		
5	5	5	5	5	5	5	4,378.59	5	4,117.17	5	3,842.36	5	3,555.51	5	3,233.61	5	2,872.67	5	2,511.66		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,373.28	1/4	4,111.57	1/4	3,836.50	1/4	3,549.41	1/4	3,226.09	1/4	2,865.15	1/4	2,504.14		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,367.96	1/2	4,105.98	1/2	3,830.65	1/2	3,543.31	1/2	3,218.57	1/2	2,857.63	1/2	2,496.62		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,362.63	3/4	4,100.35	3/4	3,824.78	3/4	3,537.19	3/4	3,211.05	3/4	2,850.11	3/4	2,489.10		
6	6	6	4,622.90	6	4,357.29	6	4,094.73	6	3,818.91	6	3,531.08	6	3,203.53	6	2,842.59	6	2,481.58				
1/4	1/4	1/4	4,618.30	1/4	4,351.96	1/4	4,089.10	1/4	3,813.03	1/4	3,524.96	1/4	3,196.01	1/4	2,835.07	1/4	2,474.06				
1/2	1/2	1/2	4,613.70	1/2	4,346.62	1/2	4,083.47	1/2	3,807.16	1/2	3,518.84	1/2	3,188.49	1/2	2,827.55	1/2	2,466.53				
3/4	3/4	3/4	4,607.57	3/4	4,341.27	3/4	4,077.83	3/4	3,801.27	3/4	3,512.71	3/4	3,180.97	3/4	2,820.03	3/4	2,459.01				
7	7	7	4,601.44	7	4,335.91	7	4,072.19	7	3,795.38	7	3,506.58	7	3,173.45	7	2,812.51	7	2,451.49				
1/4	1/4	1/4	4,595.31	1/4	4,330.55	1/4	4,066.55	1/4	3,789.49	1/4	3,500.45	1/4	3,165.93	1/4	2,804.98	1/4	2,443.97				
1/2	1/2	1/2	4,589.18	1/2	4,325.19	1/2	4,060.91	1/2	3,783.60	1/2	3,494.32	1/2	3,158.41	1/2	2,797.46	1/2	2,436.45				
3/4	3/4	3/4	4,583.05	3/4	4,319.81	3/4	4,055.25	3/4	3,777.69	3/4	3,488.19	3/4	3,150.89	3/4	2,789.94	3/4	2,428.93				
8	8	8	4,576.91	8	4,314.44	8	4,049.58	8	3,771.77	8	3,482.06	8	3,143.37	8	2,782.42	8	2,421.41				
1/4	1/4	1/4	4,570.78	1/4	4,309.06	1/4	4,043.92	1/4	3,765.86	1/4	3,475.93	1/4	3,135.85	1/4	2,774.90	1/4	2,413.89				
1/2	1/2	1/2	4,564.65	1/2	4,303.68	1/2	4,038.26	1/2	3,759.94	1/2	3,469.80	1/2	3,128.33	1/2	2,767.38	1/2	2,406.37				
3/4	3/4	3/4	4,558.52	3/4	4,298.29	3/4	4,032.58	3/4	3,754.01	3/4	3,463.68	3/4	3,120.81	3/4	2,759.86	3/4	2,398.85				
9	9	9	4,552.39	9	4,292.89	9	4,026.89	9	3,748.08	9	3,457.55	9	3,113.29	9	2,752.34	9	2,391.32				
1/4	1/4	1/4	4,546.26	1/4	4,287.50	1/4	4,021.20	1/4	3,742.14	1/4	3,451.42	1/4	3,105.77	1/4	2,744.82	1/4	2,383.80				
1/2	1/2	1/2	4,540.13	1/2	4,282.10	1/2	4,015.52	1/2	3,736.21	1/2	3,445.29	1/2	3,098.25	1/2	2,737.29	1/2	2,376.28				
3/4	3/4	3/4	4,534.00	3/4	4,276.68	3/4	4,009.81	3/4	3,730.26	3/4	3,439.02	3/4	3,090.73	3/4	2,729.77	3/4	2,368.76				
10	10	10	4,527.87	10	4,271.26	10	4,004.11	10	3,724.30	10	3,432.75	10	3,083.21	10	2,722.25	10	2,361.24				
1/4	1/4	1/4	4,521.74	1/4	4,265.84	1/4	3,998.41	1/4	3,718.35	1/4	3,426.48	1/4	3,075.69	1/4	2,714.73	1/4	2,353.72				
1/2	1/2	1/2	4,515.61	1/2	4,260.42	1/2	3,992.70	1/2	3,712.40	1/2	3,420.22	1/2	3,068.17	1/2	2,707.21	1/2	2,346.20				
3/4	3/4	3/4	4,510.38	3/4	4,254.99	3/4	3,986.98	3/4	3,706.42	3/4	3,413.67	3/4	3,060.66	3/4	2,699.69	3/4	2,338.68				
11	11	11	4,505.15	11	4,249.55	11	3,981.25	11	3,700.45	11	3,407.12	11	3,053.14	11	2,692.17	11	2,331.16				
1/4	1/4	1/4	4,499.92	1/4	4,244.11	1/4	3,975.53	1/4	3,694.47	1/4	3,400.58	1/4	3,045.62	1/4	2,684.65	1/4	2,323.63				
1/2	1/2	1/2	4,494.69	1/2	4,238.67	1/2	3,969.81	1/2	3,688.49	1/2	3,394.03	1/2	3,038.10	1/2	2,677.13	1/2	2,316.11				
3/4	3/4	3/4	4,489.45	3/4	4,233.21	3/4	3,964.06	3/4	3,682.50	3/4	3,387.21	3/4	3,030.58	3/4	2,669.60	3/4	2,308.59				

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 41'-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 29052"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/2"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4	2,293.55	1/4	1,932.54	1/4	1,571.52	1/4	1,210.51	1/4	850.30	1/4	489.30	1/4	128.30	1/4		1/4		1/4	
1/2	2,286.03	1/2	1,925.02	1/2	1,564.00	1/2	1,202.99	1/2	842.78	1/2	481.78	1/2	120.78	1/2		1/2		1/2	
3/4	2,278.51	3/4	1,917.49	3/4	1,556.48	3/4	1,195.47	3/4	835.25	3/4	474.26	3/4	113.26	3/4		3/4		3/4	
1	2,270.99	1	1,909.97	1	1,548.96	1	1,187.95	1	827.73	1	466.74	1	105.74	1		1		1	
1/4	2,263.47	1/4	1,902.45	1/4	1,541.44	1/4	1,180.43	1/4	820.21	1/4	459.21	1/4	98.22	1/4		1/4		1/4	
1/2	2,255.94	1/2	1,894.93	1/2	1,533.92	1/2	1,172.91	1/2	812.69	1/2	451.69	1/2	90.70	1/2		1/2		1/2	
3/4	2,248.42	3/4	1,887.41	3/4	1,526.40	3/4	1,165.38	3/4	805.17	3/4	444.17	3/4	83.17	3/4		3/4		3/4	
2	2,240.90	2	1,879.89	2	1,518.88	2	1,157.86	2	797.65	2	436.65	2	75.65	2		2		2	
1/4	2,233.38	1/4	1,872.37	1/4	1,511.36	1/4	1,150.34	1/4	790.13	1/4	429.13	1/4	68.13	1/4		1/4		1/4	
1/2	2,225.86	1/2	1,864.85	1/2	1,503.83	1/2	1,142.82	1/2	782.61	1/2	421.61	1/2	60.61	1/2		1/2		1/2	
3/4	2,218.34	3/4	1,857.33	3/4	1,496.31	3/4	1,135.30	3/4	775.09	3/4	414.09	3/4	54.03	3/4		3/4		3/4	
3	2,210.82	3	1,849.80	3	1,488.79	3	1,127.78	3	767.57	3	406.57	3	47.45	3		3		3	
1/4	2,203.30	1/4	1,842.28	1/4	1,481.27	1/4	1,120.26	1/4	760.05	1/4	399.05	1/4	40.87	1/4		1/4		1/4	
1/2	2,195.78	1/2	1,834.76	1/2	1,473.75	1/2	1,112.74	1/2	752.53	1/2	391.53	1/2	34.29	1/2		1/2		1/2	
3/4	2,188.25	3/4	1,827.24	3/4	1,466.23	3/4	1,105.24	3/4	745.00	3/4	384.01	3/4	29.59	3/4		3/4		3/4	
4	2,180.73	4	1,819.72	4	1,458.71	4	1,097.74	4	737.48	4	376.49	4	24.89	4		4		4	
1/4	2,173.21	1/4	1,812.20	1/4	1,451.19	1/4	1,090.25	1/4	729.96	1/4	368.96	1/4	20.19	1/4		1/4		1/4	
1/2	2,165.69	1/2	1,804.68	1/2	1,443.67	1/2	1,082.75	1/2	722.44	1/2	361.44	1/2	15.49	1/2		1/2		1/2	
3/4	2,158.17	3/4	1,797.16	3/4	1,436.14	3/4	1,075.26	3/4	714.92	3/4	353.92	3/4		3/4		3/4		3/4	
5	2,150.65	5	1,789.64	5	1,428.62	5	1,067.76	5	707.40	5	346.40	5		5		5		5	
1/4	2,143.13	1/4	1,782.11	1/4	1,421.10	1/4	1,060.26	1/4	699.88	1/4	338.88	1/4		1/4		1/4		1/4	
1/2	2,135.61	1/2	1,774.59	1/2	1,413.58	1/2	1,052.77	1/2	692.36	1/2	331.36	1/2		1/2		1/2		1/2	
3/4	2,128.09	3/4	1,767.07	3/4	1,406.06	3/4	1,045.27	3/4	684.84	3/4	323.84	3/4		3/4		3/4		3/4	
6	2,120.56	6	1,759.55	6	1,398.54	6	1,037.77	6	677.32	6	316.32	6		6		6		6	
1/4	2,113.04	1/4	1,752.03	1/4	1,391.02	1/4	1,030.28	1/4	669.80	1/4	308.80	1/4		1/4		1/4		1/4	
1/2	2,105.52	1/2	1,744.51	1/2	1,383.50	1/2	1,022.78	1/2	662.28	1/2	301.28	1/2		1/2		1/2		1/2	
3/4	2,098.00	3/4	1,736.99	3/4	1,375.98	3/4	1,015.29	3/4	654.76	3/4	293.76	3/4		3/4		3/4		3/4	
7	2,090.48	7	1,729.47	7	1,368.45	7	1,007.79	7	647.23	7	286.24	7		7		7		7	
1/4	2,082.96	1/4	1,721.95	1/4	1,360.93	1/4	1,000.29	1/4	639.71	1/4	278.72	1/4		1/4		1/4		1/4	
1/2	2,075.44	1/2	1,714.42	1/2	1,353.41	1/2	992.80	1/2	632.19	1/2	271.19	1/2		1/2		1/2		1/2	
3/4	2,067.92	3/4	1,706.90	3/4	1,345.89	3/4	985.30	3/4	624.67	3/4	263.67	3/4		3/4		3/4		3/4	
8	2,060.40	8	1,699.38	8	1,338.37	8	977.81	8	617.15	8	256.15	8		8		8		8	
1/4	2,052.87	1/4	1,691.86	1/4	1,330.85	1/4	970.31	1/4	609.63	1/4	248.63	1/4		1/4		1/4		1/4	
1/2	2,045.35	1/2	1,684.34	1/2	1,323.33	1/2	962.81	1/2	602.11	1/2	241.11	1/2		1/2		1/2		1/2	
3/4	2,037.83	3/4	1,676.82	3/4	1,315.81	3/4	955.32	3/4	594.59	3/4	233.59	3/4		3/4		3/4		3/4	
9	2,030.31	9	1,669.30	9	1,308.29	9	947.82	9	587.07	9	226.07	9		9		9		9	
1/4	2,022.79	1/4	1,661.78	1/4	1,300.76	1/4	940.32	1/4	579.55	1/4	218.55	1/4		1/4		1/4		1/4	
1/2	2,015.27	1/2	1,654.26	1/2	1,293.24	1/2	932.83	1/2	572.03	1/2	211.03	1/2		1/2		1/2		1/2	
3/4	2,007.75	3/4	1,646.74	3/4	1,285.72	3/4	925.33	3/4	564.51	3/4	203.51	3/4		3/4		3/4		3/4	
10	2,000.23	10	1,639.21	10	1,278.20	10	917.84	10	556.98	10	195.99	10		10		10		10	
1/4	1,992.71	1/4	1,631.69	1/4	1,270.68	1/4	910.34	1/4	549.46	1/4	188.47	1/4		1/4		1/4		1/4	
1/2	1,985.18	1/2	1,624.17	1/2	1,263.16	1/2	902.84	1/2	541.94	1/2	180.94	1/2		1/2		1/2		1/2	
3/4	1,977.66	3/4	1,616.65	3/4	1,255.64	3/4	895.35	3/4	534.42	3/4	173.42	3/4		3/4		3/4		3/4	
11	1,970.14	11	1,609.13	11	1,248.12	11	887.85	11	526.90	11	165.90	11		11		11		11	
1/4	1,962.62	1/4	1,601.61	1/4	1,240.60	1/4	880.35	1/4	519.38	1/4	158.38	1/4		1/4		1/4		1/4	
1/2	1,955.10	1/2	1,594.09	1/2	1,233.07	1/2	872.86	1/2	511.86	1/2	150.86	1/2		1/2		1/2		1/2	
3/4	1,947.58	3/4	1,586.57	3/4	1,225.55	3/4	865.34	3/4	504.34	3/4	143.34	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/18/2013 CL
CALCULATED: 01/19/2013 CL
PRINTED: 01/19/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2013

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



BARGE "KIRBY 29052"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0		0	4,466.80	0	4,210.57	0	3,941.41	0	3,659.85	0	3,364.56	0	3,008.45	0	2,648.15
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,461.55	1/4	4,205.11	1/4	3,935.66	1/4	3,653.86	1/4	3,357.73	1/4	3,000.94	1/4	2,640.64
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,456.30	1/2	4,199.65	1/2	3,929.92	1/2	3,647.86	1/2	3,350.91	1/2	2,993.44	1/2	2,633.14
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,451.06	3/4	4,194.19	3/4	3,924.17	3/4	3,641.87	3/4	3,344.09	3/4	2,985.93	3/4	2,625.63
1		1		1		1	4,445.79	1	4,188.71	1	3,918.40	1	3,635.84	1	3,336.98	1	2,978.43	1	2,618.12
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,440.52	1/4	4,183.23	1/4	3,912.64	1/4	3,629.82	1/4	3,329.88	1/4	2,970.92	1/4	2,610.62
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,435.26	1/2	4,177.75	1/2	3,906.87	1/2	3,623.80	1/2	3,322.78	1/2	2,963.41	1/2	2,603.11
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,429.99	3/4	4,172.27	3/4	3,901.11	3/4	3,617.78	3/4	3,315.68	3/4	2,955.91	3/4	2,595.60
2		2		2		2	4,424.70	2	4,166.77	2	3,895.32	2	3,611.74	2	3,308.30	2	2,948.40	2	2,588.09
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,419.41	1/4	4,161.27	1/4	3,889.53	1/4	3,605.70	1/4	3,300.92	1/4	2,940.90	1/4	2,580.59
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,414.12	1/2	4,155.77	1/2	3,883.75	1/2	3,599.66	1/2	3,293.54	1/2	2,933.39	1/2	2,573.08
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,408.83	3/4	4,150.27	3/4	3,877.96	3/4	3,593.63	3/4	3,286.16	3/4	2,925.89	3/4	2,565.57
3		3		3		3	4,403.56	3	4,144.71	3	3,872.15	3	3,587.57	3	3,278.65	3	2,918.38	3	2,558.07
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,398.28	1/4	4,139.16	1/4	3,866.35	1/4	3,581.51	1/4	3,271.15	1/4	2,910.87	1/4	2,550.56
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,393.01	1/2	4,133.60	1/2	3,860.54	1/2	3,575.45	1/2	3,263.64	1/2	2,903.37	1/2	2,543.05
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,387.74	3/4	4,128.04	3/4	3,854.73	3/4	3,569.40	3/4	3,256.14	3/4	2,895.86	3/4	2,535.55
4		4		4		4	4,382.45	4	4,122.46	4	3,848.90	4	3,563.31	4	3,248.63	4	2,888.36	4	2,528.04
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,377.16	1/4	4,116.88	1/4	3,843.07	1/4	3,557.23	1/4	3,241.13	1/4	2,880.85	1/4	2,520.53
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,371.86	1/2	4,111.30	1/2	3,837.24	1/2	3,551.15	1/2	3,233.62	1/2	2,873.35	1/2	2,513.03
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,366.57	3/4	4,105.72	3/4	3,831.42	3/4	3,545.06	3/4	3,226.11	3/4	2,865.84	3/4	2,505.52
5		5		5		5	4,361.26	5	4,100.12	5	3,825.56	5	3,538.96	5	3,218.61	5	2,858.33	5	2,498.01
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,355.94	1/4	4,094.53	1/4	3,819.71	1/4	3,532.86	1/4	3,211.10	1/4	2,850.83	1/4	2,490.51
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,350.63	1/2	4,088.93	1/2	3,813.85	1/2	3,526.76	1/2	3,203.60	1/2	2,843.32	1/2	2,483.00
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,345.31	3/4	4,083.33	3/4	3,808.00	3/4	3,520.66	3/4	3,196.09	3/4	2,835.82	3/4	2,475.49
6		6		6		6	4,339.98	6	4,077.70	6	3,802.13	6	3,514.55	6	3,188.59	6	2,828.31	6	2,467.99
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,334.64	1/4	4,072.08	1/4	3,796.26	1/4	3,508.43	1/4	3,181.08	1/4	2,820.81	1/4	2,460.48
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,329.31	1/2	4,066.45	1/2	3,790.39	1/2	3,502.31	1/2	3,173.57	1/2	2,813.30	1/2	2,452.98
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,323.98	3/4	4,060.83	3/4	3,784.51	3/4	3,496.19	3/4	3,166.07	3/4	2,805.79	3/4	2,445.48
7		7		7		7	4,318.62	7	4,055.18	7	3,778.62	7	3,490.06	7	3,158.56	7	2,798.29	7	2,437.97
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,313.26	1/4	4,049.54	1/4	3,772.73	1/4	3,483.93	1/4	3,151.06	1/4	2,790.78	1/4	2,430.47
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,307.90	1/2	4,043.90	1/2	3,766.84	1/2	3,477.80	1/2	3,143.55	1/2	2,783.27	1/2	2,422.97
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,302.54	3/4	4,038.26	3/4	3,760.95	3/4	3,471.67	3/4	3,136.05	3/4	2,775.77	3/4	2,415.46
8		8		8		8	4,297.16	8	4,032.60	8	3,755.04	8	3,465.54	8	3,128.54	8	2,768.26	8	2,407.96
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,291.79	1/4	4,026.94	1/4	3,749.12	1/4	3,459.41	1/4	3,121.03	1/4	2,760.75	1/4	2,400.46
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,286.41	1/2	4,021.27	1/2	3,743.21	1/2	3,453.28	1/2	3,113.53	1/2	2,753.25	1/2	2,392.95
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,281.04	3/4	4,015.61	3/4	3,737.29	3/4	3,447.16	3/4	3,106.02	3/4	2,745.74	3/4	2,385.45
9		9		9		9	4,275.64	9	4,009.93	9	3,731.36	9	3,441.03	9	3,098.52	9	2,738.23	9	2,377.95
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,270.25	1/4	4,004.24	1/4	3,725.43	1/4	3,434.90	1/4	3,091.01	1/4	2,730.73	1/4	2,370.45
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,264.85	1/2	3,998.55	1/2	3,719.49	1/2	3,428.77	1/2	3,083.51	1/2	2,723.22	1/2	2,362.94
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,259.46	3/4	3,992.87	3/4	3,713.56	3/4	3,422.64	3/4	3,076.00	3/4	2,715.71	3/4	2,355.44
10		10		10		10	4,254.04	10	3,987.16	10	3,707.61	10	3,416.37	10	3,068.49	10	2,708.21	10	2,347.94
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,248.61	1/4	3,981.46	1/4	3,701.66	1/4	3,410.10	1/4	3,060.99	1/4	2,700.70	1/4	2,340.43
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,243.19	1/2	3,975.76	1/2	3,695.70	1/2	3,403.84	1/2	3,053.48	1/2	2,693.19	1/2	2,332.93
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,237.77	3/4	3,970.05	3/4	3,689.75	3/4	3,397.57	3/4	3,045.98	3/4	2,685.68	3/4	2,325.43
11		11		11		11	4,232.34	11	3,964.33	11	3,683.77	11	3,391.02	11	3,038.47	11	2,678.18	11	2,317.92
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,226.90	1/4	3,958.61	1/4	3,677.80	1/4	3,384.48	1/4	3,030.97	1/4	2,670.67	1/4	2,310.42
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,221.46	1/2	3,952.88	1/2	3,671.82	1/2	3,377.93	1/2	3,023.46	1/2	2,663.16	1/2	2,302.92
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,216.02	3/4	3,947.16	3/4	3,665.85	3/4	3,371.38	3/4	3,015.95	3/4	2,655.66	3/4	2,295.41

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 41'-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 29052"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 3/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	2,287.90	0	1,928.91	0	1,570.31	0	1,210.08	0	856.47	0	503.66	0	143.33	0		0		0	
1/4	2,280.40	1/4	1,921.47	1/4	1,562.81	1/4	1,202.70	1/4	849.10	1/4	496.21	1/4	135.81	1/4		1/4		1/4	
1/2	2,272.89	1/2	1,914.03	1/2	1,555.30	1/2	1,195.33	1/2	841.73	1/2	488.77	1/2	128.29	1/2		1/2		1/2	
3/4	2,265.38	3/4	1,906.59	3/4	1,547.79	3/4	1,187.96	3/4	834.36	3/4	481.33	3/4	120.77	3/4		3/4		3/4	
1	2,257.87	1	1,899.14	1	1,540.28	1	1,180.59	1	826.99	1	473.82	1	113.25	1		1		1	
1/4	2,250.37	1/4	1,891.70	1/4	1,532.77	1/4	1,173.22	1/4	819.62	1/4	466.32	1/4	105.73	1/4		1/4		1/4	
1/2	2,242.86	1/2	1,884.26	1/2	1,525.27	1/2	1,165.85	1/2	812.26	1/2	458.81	1/2	98.21	1/2		1/2		1/2	
3/4	2,235.35	3/4	1,876.82	3/4	1,517.76	3/4	1,158.48	3/4	804.89	3/4	451.30	3/4	90.69	3/4		3/4		3/4	
2	2,227.84	2	1,869.38	2	1,510.25	2	1,151.11	2	797.54	2	443.79	2	83.17	2		2		2	
1/4	2,220.33	1/4	1,861.93	1/4	1,502.74	1/4	1,143.73	1/4	790.19	1/4	436.28	1/4	75.65	1/4		1/4		1/4	
1/2	2,212.83	1/2	1,854.49	1/2	1,495.24	1/2	1,136.36	1/2	782.83	1/2	428.77	1/2	68.13	1/2		1/2		1/2	
3/4	2,205.32	3/4	1,847.05	3/4	1,487.73	3/4	1,128.99	3/4	775.48	3/4	421.26	3/4	60.61	3/4		3/4		3/4	
3	2,197.81	3	1,839.61	3	1,480.22	3	1,121.62	3	768.15	3	413.75	3	54.03	3		3		3	
1/4	2,190.30	1/4	1,832.17	1/4	1,472.71	1/4	1,114.25	1/4	760.81	1/4	406.25	1/4	47.44	1/4		1/4		1/4	
1/2	2,182.80	1/2	1,824.72	1/2	1,465.20	1/2	1,106.88	1/2	753.47	1/2	398.74	1/2	40.86	1/2		1/2		1/2	
3/4	2,175.29	3/4	1,817.28	3/4	1,457.70	3/4	1,099.51	3/4	746.13	3/4	391.23	3/4	34.28	3/4		3/4		3/4	
4	2,167.78	4	1,809.84	4	1,450.19	4	1,092.14	4	738.79	4	383.72	4	29.58	4		4		4	
1/4	2,160.27	1/4	1,802.40	1/4	1,442.68	1/4	1,084.78	1/4	731.46	1/4	376.21	1/4	24.88	1/4		1/4		1/4	
1/2	2,152.76	1/2	1,794.96	1/2	1,435.17	1/2	1,077.41	1/2	724.12	1/2	368.70	1/2	20.18	1/2		1/2		1/2	
3/4	2,145.26	3/4	1,787.51	3/4	1,427.67	3/4	1,070.05	3/4	716.78	3/4	361.19	3/4	15.48	3/4		3/4		3/4	
5	2,137.75	5	1,780.07	5	1,420.16	5	1,062.68	5	709.44	5	353.68	5		5		5		5	
1/4	2,130.24	1/4	1,772.63	1/4	1,412.65	1/4	1,055.32	1/4	702.10	1/4	346.18	1/4		1/4		1/4		1/4	
1/2	2,122.73	1/2	1,765.19	1/2	1,405.14	1/2	1,047.95	1/2	694.76	1/2	338.67	1/2		1/2		1/2		1/2	
3/4	2,115.22	3/4	1,757.75	3/4	1,397.63	3/4	1,040.59	3/4	687.42	3/4	331.16	3/4		3/4		3/4		3/4	
6	2,107.72	6	1,750.30	6	1,390.13	6	1,033.23	6	680.08	6	323.65	6		6		6		6	
1/4	2,100.21	1/4	1,742.86	1/4	1,382.62	1/4	1,025.86	1/4	672.74	1/4	316.14	1/4		1/4		1/4		1/4	
1/2	2,092.70	1/2	1,735.42	1/2	1,375.11	1/2	1,018.50	1/2	665.40	1/2	308.63	1/2		1/2		1/2		1/2	
3/4	2,085.19	3/4	1,727.98	3/4	1,367.60	3/4	1,011.13	3/4	658.06	3/4	301.12	3/4		3/4		3/4		3/4	
7	2,077.75	7	1,720.47	7	1,360.10	7	1,003.77	7	650.72	7	293.61	7		7		7		7	
1/4	2,070.31	1/4	1,712.96	1/4	1,352.59	1/4	996.40	1/4	643.38	1/4	286.10	1/4		1/4		1/4		1/4	
1/2	2,062.87	1/2	1,705.45	1/2	1,345.08	1/2	989.04	1/2	636.04	1/2	278.60	1/2		1/2		1/2		1/2	
3/4	2,055.43	3/4	1,697.95	3/4	1,337.57	3/4	981.67	3/4	628.70	3/4	271.09	3/4		3/4		3/4		3/4	
8	2,047.98	8	1,690.44	8	1,330.06	8	974.31	8	621.36	8	263.58	8		8		8		8	
1/4	2,040.54	1/4	1,682.93	1/4	1,322.56	1/4	966.95	1/4	614.02	1/4	256.07	1/4		1/4		1/4		1/4	
1/2	2,033.10	1/2	1,675.42	1/2	1,315.05	1/2	959.58	1/2	606.68	1/2	248.56	1/2		1/2		1/2		1/2	
3/4	2,025.66	3/4	1,667.92	3/4	1,307.54	3/4	952.22	3/4	599.34	3/4	241.05	3/4		3/4		3/4		3/4	
9	2,018.22	9	1,660.41	9	1,300.03	9	944.85	9	592.00	9	233.54	9		9		9		9	
1/4	2,010.77	1/4	1,652.90	1/4	1,292.53	1/4	937.49	1/4	584.66	1/4	226.03	1/4		1/4		1/4		1/4	
1/2	2,003.33	1/2	1,645.39	1/2	1,285.02	1/2	930.12	1/2	577.32	1/2	218.53	1/2		1/2		1/2		1/2	
3/4	1,995.89	3/4	1,637.88	3/4	1,277.51	3/4	922.76	3/4	569.98	3/4	211.02	3/4		3/4		3/4		3/4	
10	1,988.45	10	1,630.38	10	1,270.00	10	915.39	10	562.63	10	203.50	10		10		10		10	
1/4	1,981.01	1/4	1,622.87	1/4	1,262.49	1/4	908.03	1/4	555.28	1/4	195.98	1/4		1/4		1/4		1/4	
1/2	1,973.56	1/2	1,615.36	1/2	1,254.99	1/2	900.66	1/2	547.92	1/2	188.46	1/2		1/2		1/2		1/2	
3/4	1,966.12	3/4	1,607.85	3/4	1,247.48	3/4	893.30	3/4	540.57	3/4	180.93	3/4		3/4		3/4		3/4	
11	1,958.68	11	1,600.35	11	1,239.97	11	885.94	11	533.20	11	173.41	11		11		11		11	
1/4	1,951.24	1/4	1,592.84	1/4	1,232.46	1/4	878.57	1/4	525.83	1/4	165.89	1/4		1/4		1/4		1/4	
1/2	1,943.80	1/2	1,585.33	1/2	1,224.96	1/2	871.21	1/2	518.46	1/2	158.37	1/2		1/2		1/2		1/2	
3/4	1,936.35	3/4	1,577.82	3/4	1,217.45	3/4	863.84	3/4	511.10	3/4	150.85	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/18/2013 CL
CALCULATED: 01/19/2013 CL
PRINTED: 01/19/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2013

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