



BARGE "KIRBY 29114"

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	00-1/4	- 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	01-7/8	- 01-7/8
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	01-7/8	- 01-7/8
2 PORT	00-3/8	- 00-3/8	00-7/8	- 00-7/8	01-1/4	- 01-1/4	01-3/4	- 01-3/4	02-1/8	- 02-1/8	02-1/2	- 02-1/2
2 STBD	00-3/8	- 00-3/8	00-7/8	- 00-7/8	01-1/4	- 01-1/4	01-3/4	- 01-3/4	02-1/8	- 02-1/8	02-1/2	- 02-1/2
3 PORT	00-3/8	- 00-3/8	00-3/4	- 00-3/4	01-1/8	- 01-1/8	01-5/8	- 01-5/8	02-0/8	- 02-0/8	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	01-5/8	- 01-5/8	02-0/8	- 02-0/8	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"

April 3, 2013

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 29114"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 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		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 52'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,427.62	0	2,049.49	0	1,671.36	0	1,294.57	0	917.27	0	539.17	0	189.51	0		0		0	
1/4	2,419.74	1/4	2,041.61	1/4	1,663.48	1/4	1,286.74	1/4	909.39	1/4	531.30	1/4	182.88	1/4	1/4	1/4		1/4	
1/2	2,411.87	1/2	2,033.74	1/2	1,655.61	1/2	1,278.92	1/2	901.51	1/2	523.43	1/2	176.24	1/2	1/2	1/2		1/2	
3/4	2,403.99	3/4	2,025.86	3/4	1,647.73	3/4	1,271.09	3/4	893.63	3/4	515.61	3/4	169.72	3/4	3/4	3/4		3/4	
1	2,396.11	1	2,017.98	1	1,639.85	1	1,263.26	1	885.76	1	507.79	1	163.20	1	1	1		1	
1/4	2,388.23	1/4	2,010.10	1/4	1,631.97	1/4	1,255.43	1/4	877.88	1/4	499.97	1/4	156.68	1/4	1/4	1/4		1/4	
1/2	2,380.36	1/2	2,002.23	1/2	1,624.10	1/2	1,247.60	1/2	870.00	1/2	492.15	1/2	150.16	1/2	1/2	1/2		1/2	
3/4	2,372.48	3/4	1,994.35	3/4	1,616.22	3/4	1,239.78	3/4	862.12	3/4	484.43	3/4	143.76	3/4	3/4	3/4		3/4	
2	2,364.60	2	1,986.47	2	1,608.34	2	1,231.95	2	854.25	2	476.70	2	137.35	2	2	2		2	
1/4	2,356.72	1/4	1,978.59	1/4	1,600.46	1/4	1,224.12	1/4	846.37	1/4	468.97	1/4	130.95	1/4	1/4	1/4		1/4	
1/2	2,348.84	1/2	1,970.71	1/2	1,592.59	1/2	1,216.29	1/2	838.49	1/2	461.25	1/2	124.54	1/2	1/2	1/2		1/2	
3/4	2,340.97	3/4	1,962.84	3/4	1,584.71	3/4	1,208.46	3/4	830.61	3/4	453.63	3/4	118.26	3/4	3/4	3/4		3/4	
3	2,333.09	3	1,954.96	3	1,576.83	3	1,200.63	3	822.74	3	446.01	3	111.97	3	3	3		3	
1/4	2,325.21	1/4	1,947.08	1/4	1,568.95	1/4	1,192.81	1/4	814.86	1/4	438.39	1/4	105.69	1/4	1/4	1/4		1/4	
1/2	2,317.33	1/2	1,939.20	1/2	1,561.07	1/2	1,184.98	1/2	806.98	1/2	430.78	1/2	99.41	1/2	1/2	1/2		1/2	
3/4	2,309.46	3/4	1,931.33	3/4	1,553.21	3/4	1,177.13	3/4	799.10	3/4	423.27	3/4	93.25	3/4	3/4	3/4		3/4	
4	2,301.58	4	1,923.45	4	1,545.34	4	1,169.28	4	791.23	4	415.76	4	87.10	4	4	4		4	
1/4	2,293.70	1/4	1,915.57	1/4	1,537.47	1/4	1,161.44	1/4	783.35	1/4	408.25	1/4	80.94	1/4	1/4	1/4		1/4	
1/2	2,285.82	1/2	1,907.69	1/2	1,529.61	1/2	1,153.59	1/2	775.47	1/2	400.74	1/2	74.79	1/2	1/2	1/2		1/2	
3/4	2,277.95	3/4	1,899.82	3/4	1,521.76	3/4	1,145.71	3/4	767.59	3/4	393.34	3/4	68.78	3/4	3/4	3/4		3/4	
5	2,270.07	5	1,891.94	5	1,513.91	5	1,137.84	5	759.72	5	385.95	5	62.76	5	5	5		5	
1/4	2,262.19	1/4	1,884.06	1/4	1,506.06	1/4	1,129.96	1/4	751.84	1/4	378.55	1/4	56.75	1/4	1/4	1/4		1/4	
1/2	2,254.31	1/2	1,876.18	1/2	1,498.21	1/2	1,122.08	1/2	743.96	1/2	371.15	1/2	50.74	1/2	1/2	1/2		1/2	
3/4	2,246.43	3/4	1,868.30	3/4	1,490.37	3/4	1,114.20	3/4	736.08	3/4	363.86	3/4	45.32	3/4	3/4	3/4		3/4	
6	2,238.56	6	1,860.43	6	1,482.53	6	1,106.33	6	728.21	6	356.57	6	39.90	6	6	6		6	
1/4	2,230.68	1/4	1,852.55	1/4	1,474.68	1/4	1,098.45	1/4	720.33	1/4	349.28	1/4	34.48	1/4	1/4	1/4		1/4	
1/2	2,222.80	1/2	1,844.67	1/2	1,466.84	1/2	1,090.57	1/2	712.45	1/2	341.99	1/2	29.06	1/2	1/2	1/2		1/2	
3/4	2,214.92	3/4	1,836.79	3/4	1,459.01	3/4	1,082.69	3/4	704.57	3/4	334.81	3/4	25.09	3/4	3/4	3/4		3/4	
7	2,207.05	7	1,828.92	7	1,451.17	7	1,074.82	7	696.70	7	327.63	7	21.13	7	7	7		7	
1/4	2,199.17	1/4	1,821.04	1/4	1,443.33	1/4	1,066.94	1/4	688.82	1/4	320.45	1/4	17.16	1/4	1/4	1/4		1/4	
1/2	2,191.29	1/2	1,813.16	1/2	1,435.50	1/2	1,059.06	1/2	680.94	1/2	313.27	1/2	13.19	1/2	1/2	1/2		1/2	
3/4	2,183.41	3/4	1,805.28	3/4	1,427.67	3/4	1,051.18	3/4	673.06	3/4	306.20	3/4		3/4	3/4	3/4		3/4	
8	2,175.54	8	1,797.41	8	1,419.83	8	1,043.31	8	665.19	8	299.13	8		8	8	8		8	
1/4	2,167.66	1/4	1,789.53	1/4	1,412.00	1/4	1,035.43	1/4	657.31	1/4	292.06	1/4		1/4	1/4	1/4		1/4	
1/2	2,159.78	1/2	1,781.65	1/2	1,404.17	1/2	1,027.55	1/2	649.43	1/2	284.99	1/2		1/2	1/2	1/2		1/2	
3/4	2,151.90	3/4	1,773.77	3/4	1,396.34	3/4	1,019.67	3/4	641.55	3/4	278.03	3/4		3/4	3/4	3/4		3/4	
9	2,144.02	9	1,765.89	9	1,388.51	9	1,011.80	9	633.68	9	271.07	9		9	9	9		9	
1/4	2,136.15	1/4	1,758.02	1/4	1,380.68	1/4	1,003.92	1/4	625.80	1/4	264.11	1/4		1/4	1/4	1/4		1/4	
1/2	2,128.27	1/2	1,750.14	1/2	1,372.86	1/2	996.04	1/2	617.92	1/2	257.15	1/2		1/2	1/2	1/2		1/2	
3/4	2,120.39	3/4	1,742.26	3/4	1,365.03	3/4	988.16	3/4	610.04	3/4	250.30	3/4		3/4	3/4	3/4		3/4	
10	2,112.51	10	1,734.38	10	1,357.20	10	980.29	10	602.17	10	243.44	10		10	10	10		10	
1/4	2,104.64	1/4	1,726.51	1/4	1,349.37	1/4	972.41	1/4	594.29	1/4	236.59	1/4		1/4	1/4	1/4		1/4	
1/2	2,096.76	1/2	1,718.63	1/2	1,341.54	1/2	964.53	1/2	586.41	1/2	229.74	1/2		1/2	1/2	1/2		1/2	
3/4	2,088.88	3/4	1,710.75	3/4	1,333.71	3/4	956.65	3/4	578.53	3/4	223.00	3/4		3/4	3/4	3/4		3/4	
11	2,081.00	11	1,702.87	11	1,325.89	11	948.78	11	570.66	11	216.26	11		11	11	11		11	
1/4	2,073.13	1/4	1,695.00	1/4	1,318.06	1/4	940.90	1/4	562.78	1/4	209.52	1/4		1/4	1/4	1/4		1/4	
1/2	2,065.25	1/2	1,687.12	1/2	1,310.23	1/2	933.02	1/2	554.90	1/2	202.77	1/2		1/2	1/2	1/2		1/2	
3/4	2,057.37	3/4	1,679.24	3/4	1,302.40	3/4	925.14	3/4	547.03	3/4	196.14	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/03/2013 CL
CALCULATED: 04/03/2013 CL
PRINTED: 04/03/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2013

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "KIRBY 29114"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 3/4"

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	4,962.85	1/4	4,630.12	1/4	4,290.76	1/4	3,934.89	1/4	3,563.05	1/4	3,186.38	1/4	2,808.17		
1/2		1/2		1/2		1/2	4,957.47	1/2	4,623.22	1/2	4,283.52	1/2	3,927.31	1/2	3,555.21	1/2	3,178.51	1/2	2,800.29		
3/4		3/4		3/4		3/4	4,952.08	3/4	4,616.33	3/4	4,276.27	3/4	3,919.72	3/4	3,547.37	3/4	3,170.63	3/4	2,792.41		
1	1	1	1	1	1	1	4,945.40	1	4,609.40	1	4,269.00	1	3,912.10	1	3,539.52	1	3,162.75	1	2,784.53		
1/4		1/4		1/4		1/4	4,938.72	1/4	4,602.48	1/4	4,261.73	1/4	3,904.48	1/4	3,531.68	1/4	3,154.87	1/4	2,776.65		
1/2		1/2		1/2		1/2	4,932.04	1/2	4,595.55	1/2	4,254.46	1/2	3,896.86	1/2	3,523.83	1/2	3,146.99	1/2	2,768.77		
3/4		3/4		3/4		3/4	4,925.36	3/4	4,588.63	3/4	4,247.19	3/4	3,889.25	3/4	3,515.99	3/4	3,139.11	3/4	2,760.89		
2	2	2	2	2	2	2	4,917.74	2	4,581.67	2	4,239.90	2	3,881.60	2	3,508.14	2	3,131.23	2	2,753.01		
1/4		1/4		1/4		1/4	4,910.13	1/4	4,574.72	1/4	4,232.60	1/4	3,873.96	1/4	3,500.30	1/4	3,123.35	1/4	2,745.13		
1/2		1/2		1/2		1/2	4,902.51	1/2	4,567.77	1/2	4,225.30	1/2	3,866.32	1/2	3,492.45	1/2	3,115.47	1/2	2,737.25		
3/4		3/4		3/4		3/4	4,894.90	3/4	4,560.81	3/4	4,218.00	3/4	3,858.68	3/4	3,484.61	3/4	3,107.59	3/4	2,729.37		
3	3	3	3	3	3	3	4,887.06	3	4,553.83	3	4,210.68	3	3,851.01	3	3,476.76	3	3,099.71	3	2,721.49		
1/4		1/4		1/4		1/4	4,879.21	1/4	4,546.85	1/4	4,203.35	1/4	3,843.34	1/4	3,468.92	1/4	3,091.83	1/4	2,713.61		
1/2		1/2		1/2		1/2	4,871.37	1/2	4,539.86	1/2	4,196.02	1/2	3,835.67	1/2	3,461.07	1/2	3,083.95	1/2	2,705.74		
3/4		3/4		3/4		3/4	4,863.52	3/4	4,532.88	3/4	4,188.70	3/4	3,828.00	3/4	3,453.23	3/4	3,076.07	3/4	2,697.86		
4	4	4	4	4	4	4	4,856.11	4	4,525.87	4	4,181.34	4	3,820.30	4	3,445.39	4	3,068.19	4	2,689.98		
1/4		1/4		1/4		1/4	4,848.70	1/4	4,518.86	1/4	4,173.99	1/4	3,812.60	1/4	3,437.54	1/4	3,060.31	1/4	2,682.10		
1/2		1/2		1/2		1/2	4,841.29	1/2	4,511.85	1/2	4,166.63	1/2	3,804.90	1/2	3,429.70	1/2	3,052.43	1/2	2,674.22		
3/4		3/4		3/4		3/4	4,833.88	3/4	4,504.83	3/4	4,159.28	3/4	3,797.20	3/4	3,421.85	3/4	3,044.55	3/4	2,666.34		
5	5	5	5	5	5	5	4,827.18	5	4,497.79	5	4,151.89	5	3,789.47	5	3,414.01	5	3,036.67	5	2,658.46		
1/4		1/4		1/4		1/4	4,820.48	1/4	4,490.75	1/4	4,144.51	1/4	3,781.74	1/4	3,406.16	1/4	3,028.79	1/4	2,650.58		
1/2		1/2		1/2		1/2	4,813.79	1/2	4,483.71	1/2	4,137.12	1/2	3,774.01	1/2	3,398.32	1/2	3,020.92	1/2	2,642.70		
3/4		3/4		3/4		3/4	4,807.09	3/4	4,476.67	3/4	4,129.74	3/4	3,766.28	3/4	3,390.47	3/4	3,013.04	3/4	2,634.82		
6	6	6	6	6	6	6	4,800.36	6	4,469.60	6	4,122.32	6	3,758.53	6	3,382.63	6	3,005.16	6	2,626.94		
1/4		1/4		1/4		1/4	4,793.64	1/4	4,462.53	1/4	4,114.91	1/4	3,750.77	1/4	3,374.78	1/4	2,997.28	1/4	2,619.06		
1/2		1/2		1/2		1/2	4,786.91	1/2	4,455.46	1/2	4,107.50	1/2	3,743.01	1/2	3,366.94	1/2	2,989.40	1/2	2,611.18		
3/4		3/4		3/4		3/4	4,780.19	3/4	4,448.39	3/4	4,100.08	3/4	3,735.25	3/4	3,359.09	3/4	2,981.52	3/4	2,603.30		
7	7	7	7	7	7	7	4,773.43	7	4,441.29	7	4,092.64	7	3,727.47	7	3,351.25	7	2,973.64	7	2,595.42		
1/4		1/4		1/4		1/4	4,766.67	1/4	4,434.20	1/4	4,085.20	1/4	3,719.68	1/4	3,343.41	1/4	2,965.76	1/4	2,587.54		
1/2		1/2		1/2		1/2	4,759.92	1/2	4,427.10	1/2	4,077.76	1/2	3,711.90	1/2	3,335.56	1/2	2,957.88	1/2	2,579.66		
3/4		3/4		3/4		3/4	4,753.16	3/4	4,420.00	3/4	4,070.31	3/4	3,704.11	3/4	3,327.72	3/4	2,950.00	3/4	2,571.78		
8	8	8	8	8	8	8	4,746.38	8	4,412.87	8	4,062.84	8	3,696.29	8	3,319.87	8	2,942.12	8	2,563.90		
1/4		1/4		1/4		1/4	4,739.59	1/4	4,405.74	1/4	4,055.37	1/4	3,688.48	1/4	3,312.03	1/4	2,934.24	1/4	2,556.02		
1/2		1/2		1/2		1/2	4,732.81	1/2	4,398.61	1/2	4,047.90	1/2	3,680.66	1/2	3,304.18	1/2	2,926.36	1/2	2,548.15		
3/4		3/4		3/4		3/4	4,726.03	3/4	4,391.49	3/4	4,040.43	3/4	3,672.85	3/4	3,296.34	3/4	2,918.48	3/4	2,540.27		
9	9	9	9	9	9	9	4,719.21	9	4,384.33	9	4,032.93	9	3,665.01	9	3,288.49	9	2,910.60	9	2,532.39		
1/4		1/4		1/4		1/4	4,712.40	1/4	4,377.17	1/4	4,025.43	1/4	3,657.17	1/4	3,280.65	1/4	2,902.72	1/4	2,524.51		
1/2		1/2		1/2		1/2	4,705.58	1/2	4,370.02	1/2	4,017.92	1/2	3,649.34	1/2	3,272.80	1/2	2,894.84	1/2	2,516.63		
3/4		3/4		3/4		3/4	4,698.77	3/4	4,362.86	3/4	4,010.42	3/4	3,641.50	3/4	3,264.96	3/4	2,886.96	3/4	2,508.75		
10	10	10	10	10	10	10	4,691.93	10	4,355.67	10	4,002.89	10	3,633.66	10	3,257.11	10	2,879.08	10	2,500.87		
1/4		1/4		1/4		1/4	4,685.09	1/4	4,348.48	1/4	3,995.36	1/4	3,625.81	1/4	3,249.27	1/4	2,871.20	1/4	2,492.99		
1/2		1/2		1/2		1/2	4,678.24	1/2	4,341.30	1/2	3,987.84	1/2	3,617.97	1/2	3,241.43	1/2	2,863.33	1/2	2,485.11		
3/4		3/4		3/4		3/4	4,671.40	3/4	4,334.11	3/4	3,980.31	3/4	3,610.12	3/4	3,233.58	3/4	2,855.45	3/4	2,477.23		
11	11	11	11	11	11	11	4,664.53	11	4,326.90	11	3,972.75	11	3,602.28	11	3,225.72	11	2,847.57	11	2,469.35		
1/4		1/4		1/4		1/4	4,657.66	1/4	4,319.68	1/4	3,965.19	1/4	3,594.43	1/4	3,217.86	1/4	2,839.69	1/4	2,461.47		
1/2		1/2		1/2		1/2	4,650.78	1/2	4,312.47	1/2	3,957.63	1/2	3,586.59	1/2	3,210.00	1/2	2,831.81	1/2	2,453.59		
3/4		3/4		3/4		3/4	4,643.91	3/4	4,305.25	3/4	3,950.07	3/4	3,578.74	3/4	3,202.14	3/4	2,823.93	3/4	2,445.71		

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 52'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 29114"

1 STBD 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	2,437.83	0	2,059.62	0	1,681.40	0	1,303.18	0	925.24	0	547.16	0	196.19	0		0		0	
1/4	2,429.95	1/4	2,051.74	1/4	1,673.52	1/4	1,295.30	1/4	917.37	1/4	539.29	1/4	189.55	1/4	1/4		1/4		1/4
1/2	2,422.07	1/2	2,043.86	1/2	1,665.64	1/2	1,287.43	1/2	909.51	1/2	531.42	1/2	182.92	1/2	1/2		1/2		1/2
3/4	2,414.19	3/4	2,035.98	3/4	1,657.76	3/4	1,279.55	3/4	901.64	3/4	523.55	3/4	176.28	3/4	3/4		3/4		3/4
1	2,406.31	1	2,028.10	1	1,649.88	1	1,271.67	1	893.77	1	515.73	1	169.76	1	1		1		1
1/4	2,398.43	1/4	2,020.22	1/4	1,642.00	1/4	1,263.79	1/4	885.90	1/4	507.91	1/4	163.24	1/4	1/4		1/4		1/4
1/2	2,390.56	1/2	2,012.34	1/2	1,634.12	1/2	1,255.91	1/2	878.04	1/2	500.09	1/2	156.72	1/2	1/2		1/2		1/2
3/4	2,382.68	3/4	2,004.46	3/4	1,626.24	3/4	1,248.03	3/4	870.17	3/4	492.27	3/4	150.20	3/4	3/4		3/4		3/4
2	2,374.80	2	1,996.58	2	1,618.36	2	1,240.15	2	862.30	2	484.54	2	143.79	2	2		2		2
1/4	2,366.92	1/4	1,988.70	1/4	1,610.48	1/4	1,232.27	1/4	854.43	1/4	476.81	1/4	137.38	1/4	1/4		1/4		1/4
1/2	2,359.04	1/2	1,980.82	1/2	1,602.61	1/2	1,224.39	1/2	846.55	1/2	469.08	1/2	130.98	1/2	1/2		1/2		1/2
3/4	2,351.16	3/4	1,972.94	3/4	1,594.73	3/4	1,216.51	3/4	838.68	3/4	461.35	3/4	124.57	3/4	3/4		3/4		3/4
3	2,343.28	3	1,965.06	3	1,586.85	3	1,208.63	3	830.80	3	453.73	3	118.28	3	3		3		3
1/4	2,335.40	1/4	1,957.18	1/4	1,578.97	1/4	1,200.75	1/4	822.92	1/4	446.11	1/4	112.00	1/4	1/4		1/4		1/4
1/2	2,327.52	1/2	1,949.30	1/2	1,571.09	1/2	1,192.87	1/2	815.04	1/2	438.49	1/2	105.71	1/2	1/2		1/2		1/2
3/4	2,319.64	3/4	1,941.42	3/4	1,563.21	3/4	1,184.99	3/4	807.16	3/4	430.87	3/4	99.43	3/4	3/4		3/4		3/4
4	2,311.76	4	1,933.54	4	1,555.33	4	1,177.11	4	799.29	4	423.36	4	93.27	4	4		4		4
1/4	2,303.88	1/4	1,925.66	1/4	1,547.45	1/4	1,169.23	1/4	791.41	1/4	415.85	1/4	87.12	1/4	1/4		1/4		1/4
1/2	2,296.00	1/2	1,917.79	1/2	1,539.57	1/2	1,161.35	1/2	783.53	1/2	408.34	1/2	80.96	1/2	1/2		1/2		1/2
3/4	2,288.12	3/4	1,909.91	3/4	1,531.69	3/4	1,153.47	3/4	775.65	3/4	400.83	3/4	74.81	3/4	3/4		3/4		3/4
5	2,280.24	5	1,902.03	5	1,523.81	5	1,145.59	5	767.77	5	393.43	5	68.79	5	5		5		5
1/4	2,272.36	1/4	1,894.15	1/4	1,515.93	1/4	1,137.71	1/4	759.89	1/4	386.03	1/4	62.78	1/4	1/4		1/4		1/4
1/2	2,264.48	1/2	1,886.27	1/2	1,508.05	1/2	1,129.84	1/2	752.01	1/2	378.63	1/2	56.76	1/2	1/2		1/2		1/2
3/4	2,256.60	3/4	1,878.39	3/4	1,500.17	3/4	1,121.96	3/4	744.13	3/4	371.23	3/4	50.75	3/4	3/4		3/4		3/4
6	2,248.72	6	1,870.51	6	1,492.29	6	1,114.08	6	736.25	6	363.94	6	45.33	6	6		6		6
1/4	2,240.84	1/4	1,862.63	1/4	1,484.41	1/4	1,106.21	1/4	728.37	1/4	356.65	1/4	39.91	1/4	1/4		1/4		1/4
1/2	2,232.97	1/2	1,854.75	1/2	1,476.53	1/2	1,098.33	1/2	720.49	1/2	349.36	1/2	34.49	1/2	1/2		1/2		1/2
3/4	2,225.09	3/4	1,846.87	3/4	1,468.65	3/4	1,090.46	3/4	712.61	3/4	342.07	3/4	29.06	3/4	3/4		3/4		3/4
7	2,217.21	7	1,838.99	7	1,460.77	7	1,082.59	7	704.73	7	334.89	7	25.10	7	7		7		7
1/4	2,209.33	1/4	1,831.11	1/4	1,452.89	1/4	1,074.72	1/4	696.85	1/4	327.71	1/4	21.13	1/4	1/4		1/4		1/4
1/2	2,201.45	1/2	1,823.23	1/2	1,445.02	1/2	1,066.85	1/2	688.98	1/2	320.53	1/2	17.16	1/2	1/2		1/2		1/2
3/4	2,193.57	3/4	1,815.35	3/4	1,437.14	3/4	1,058.99	3/4	681.10	3/4	313.34	3/4	13.20	3/4	3/4		3/4		3/4
8	2,185.69	8	1,807.47	8	1,429.26	8	1,051.12	8	673.22	8	306.27	8		8	8		8		8
1/4	2,177.81	1/4	1,799.59	1/4	1,421.38	1/4	1,043.25	1/4	665.34	1/4	299.20	1/4		1/4	1/4		1/4		1/4
1/2	2,169.93	1/2	1,791.71	1/2	1,413.50	1/2	1,035.38	1/2	657.46	1/2	292.13	1/2		1/2	1/2		1/2		1/2
3/4	2,162.05	3/4	1,783.83	3/4	1,405.62	3/4	1,027.52	3/4	649.58	3/4	285.06	3/4		3/4	3/4		3/4		3/4
9	2,154.17	9	1,775.95	9	1,397.74	9	1,019.65	9	641.70	9	278.09	9		9	9		9		9
1/4	2,146.29	1/4	1,768.07	1/4	1,389.86	1/4	1,011.78	1/4	633.82	1/4	271.13	1/4		1/4	1/4		1/4		1/4
1/2	2,138.41	1/2	1,760.20	1/2	1,381.98	1/2	1,003.91	1/2	625.94	1/2	264.17	1/2		1/2	1/2		1/2		1/2
3/4	2,130.53	3/4	1,752.32	3/4	1,374.10	3/4	996.05	3/4	618.06	3/4	257.21	3/4		3/4	3/4		3/4		3/4
10	2,122.65	10	1,744.44	10	1,366.22	10	988.18	10	610.18	10	250.35	10		10	10		10		10
1/4	2,114.77	1/4	1,736.56	1/4	1,358.34	1/4	980.31	1/4	602.30	1/4	243.50	1/4		1/4	1/4		1/4		1/4
1/2	2,106.89	1/2	1,728.68	1/2	1,350.46	1/2	972.45	1/2	594.42	1/2	236.65	1/2		1/2	1/2		1/2		1/2
3/4	2,099.01	3/4	1,720.80	3/4	1,342.58	3/4	964.58	3/4	586.54	3/4	229.79	3/4		3/4	3/4		3/4		3/4
11	2,091.13	11	1,712.92	11	1,334.70	11	956.71	11	578.67	11	223.05	11		11	11		11		11
1/4	2,083.25	1/4	1,705.04	1/4	1,326.82	1/4	948.84	1/4	570.79	1/4	216.31	1/4		1/4	1/4		1/4		1/4
1/2	2,075.38	1/2	1,697.16	1/2	1,318.94	1/2	940.98	1/2	562.91	1/2	209.56	1/2		1/2	1/2		1/2		1/2
3/4	2,067.50	3/4	1,689.28	3/4	1,311.06	3/4	933.11	3/4	555.03	3/4	202.82	3/4		3/4	3/4		3/4		3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/03/2013 CL
CALCULATED: 04/03/2013 CL
PRINTED: 04/03/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2013

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "KIRBY 29114"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08"

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		
									4,462.25		4,139.42		3,801.45		3,448.70		3,091.10		2,732.01		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,455.67	1/4	4,132.52	1/4	3,794.24	1/4	3,441.25	1/4	3,083.62	1/4	2,724.53		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,766.13	1/2	4,449.09	1/2	4,125.62	1/2	3,787.03	1/2	3,433.80	1/2	3,076.13	1/2	2,717.05
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,761.02	3/4	4,442.51	3/4	4,118.72	3/4	3,779.81	3/4	3,426.35	3/4	3,068.65	3/4	2,709.57
1	1	1	1	1	1	1	1	1	4,435.90	1	4,111.82	1	3,772.60	1	3,418.90	1	3,061.17	1	2,702.09		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,749.56	1/4	4,429.33	1/4	4,104.90	1/4	3,765.36	1/4	3,411.45	1/4	3,053.69	1/4	2,694.61
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,743.22	1/2	4,422.72	1/2	4,097.98	1/2	3,758.12	1/2	3,404.00	1/2	3,046.21	1/2	2,687.13
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,736.88	3/4	4,416.12	3/4	4,091.06	3/4	3,750.88	3/4	3,396.56	3/4	3,038.73	3/4	2,679.65
2	2	2	2	2	2	2	2	2	4,730.53	2	4,409.51	2	4,084.14	2	3,743.64	2	3,389.11	2	3,031.25	2	2,672.17
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,723.31	1/4	4,402.88	1/4	4,077.19	1/4	3,736.37	1/4	3,381.66	1/4	3,023.77	1/4	2,664.69
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,716.08	1/2	4,396.24	1/2	4,070.24	1/2	3,729.11	1/2	3,374.21	1/2	3,016.29	1/2	2,657.20
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,708.85	3/4	4,389.61	3/4	4,063.30	3/4	3,721.85	3/4	3,366.76	3/4	3,008.81	3/4	2,649.72
3	3	3	3	3	3	3	3	3	4,701.62	3	4,382.98	3	4,056.35	3	3,714.58	3	3,359.31	3	3,001.33	3	2,642.24
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,694.17	1/4	4,376.32	1/4	4,049.37	1/4	3,707.29	1/4	3,351.86	1/4	2,993.84	1/4	2,634.76
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,686.72	1/2	4,369.66	1/2	4,042.40	1/2	3,700.01	1/2	3,344.41	1/2	2,986.36	1/2	2,627.28
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,679.27	3/4	4,363.00	3/4	4,035.43	3/4	3,692.72	3/4	3,336.97	3/4	2,978.88	3/4	2,619.80
4	4	4	4	4	4	4	4	4	4,671.82	4	4,356.34	4	4,028.45	4	3,685.43	4	3,329.52	4	2,971.40	4	2,612.32
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,664.77	1/4	4,349.66	1/4	4,021.45	1/4	3,678.11	1/4	3,322.07	1/4	2,963.92	1/4	2,604.84
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,657.72	1/2	4,342.97	1/2	4,014.45	1/2	3,670.80	1/2	3,314.62	1/2	2,956.44	1/2	2,597.36
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,650.67	3/4	4,336.29	3/4	4,007.45	3/4	3,663.48	3/4	3,307.17	3/4	2,948.96	3/4	2,589.88
5	5	5	5	5	5	5	5	5	4,643.62	5	4,329.60	5	4,000.45	5	3,656.16	5	3,299.72	5	2,941.48	5	2,582.40
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,637.22	1/4	4,322.89	1/4	3,993.42	1/4	3,648.82	1/4	3,292.27	1/4	2,934.00	1/4	2,574.91
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,630.82	1/2	4,316.18	1/2	3,986.40	1/2	3,641.48	1/2	3,284.82	1/2	2,926.52	1/2	2,567.43
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,624.43	3/4	4,309.47	3/4	3,979.37	3/4	3,634.14	3/4	3,277.38	3/4	2,919.04	3/4	2,559.95
6	6	6	6	6	6	6	6	6	4,618.03	6	4,302.75	6	3,972.34	6	3,626.80	6	3,269.93	6	2,911.56	6	2,552.47
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,611.61	1/4	4,296.01	1/4	3,965.29	1/4	3,619.43	1/4	3,262.48	1/4	2,904.07	1/4	2,544.99
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,605.18	1/2	4,289.28	1/2	3,958.23	1/2	3,612.06	1/2	3,255.03	1/2	2,896.59	1/2	2,537.51
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,598.76	3/4	4,282.54	3/4	3,951.18	3/4	3,604.69	3/4	3,247.58	3/4	2,889.11	3/4	2,530.03
7	7	7	7	7	7	7	7	7	4,592.34	7	4,275.80	7	3,944.13	7	3,597.32	7	3,240.13	7	2,881.63	7	2,522.55
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,585.88	1/4	4,269.03	1/4	3,937.05	1/4	3,589.92	1/4	3,232.68	1/4	2,874.15	1/4	2,515.07
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,579.43	1/2	4,262.27	1/2	3,929.97	1/2	3,582.53	1/2	3,225.23	1/2	2,866.67	1/2	2,507.59
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,572.98	3/4	4,255.50	3/4	3,922.89	3/4	3,575.13	3/4	3,217.78	3/4	2,859.19	3/4	2,500.11
8	8	8	8	8	8	8	8	8	4,566.53	8	4,248.74	8	3,915.81	8	3,567.74	8	3,210.34	8	2,851.71	8	2,492.62
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,560.05	1/4	4,241.95	1/4	3,908.70	1/4	3,560.32	1/4	3,202.89	1/4	2,844.23	1/4	2,485.14
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,553.58	1/2	4,235.15	1/2	3,901.59	1/2	3,552.90	1/2	3,195.44	1/2	2,836.75	1/2	2,477.66
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,547.10	3/4	4,228.36	3/4	3,894.49	3/4	3,545.47	3/4	3,187.99	3/4	2,829.27	3/4	2,470.18
9	9	9	9	9	9	9	9	9	4,540.62	9	4,221.57	9	3,887.38	9	3,538.05	9	3,180.54	9	2,821.78	9	2,462.70
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,534.12	1/4	4,214.75	1/4	3,880.25	1/4	3,530.61	1/4	3,173.09	1/4	2,814.30	1/4	2,455.22
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,527.61	1/2	4,207.93	1/2	3,873.11	1/2	3,523.17	1/2	3,165.64	1/2	2,806.82	1/2	2,447.74
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,521.11	3/4	4,201.11	3/4	3,865.98	3/4	3,515.73	3/4	3,158.19	3/4	2,799.34	3/4	2,440.26
10	10	10	10	10	10	10	10	10	4,514.61	10	4,194.29	10	3,858.84	10	3,508.29	10	3,150.75	10	2,791.86	10	2,432.78
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,508.08	1/4	4,187.45	1/4	3,851.68	1/4	3,500.84	1/4	3,143.30	1/4	2,784.38	1/4	2,425.30
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,501.55	1/2	4,180.60	1/2	3,844.52	1/2	3,493.39	1/2	3,135.85	1/2	2,776.90	1/2	2,417.82
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,495.01	3/4	4,173.76	3/4	3,837.36	3/4	3,485.94	3/4	3,128.40	3/4	2,769.42	3/4	2,410.33
11	11	11	11	11	11	11	11	11	4,488.48	11	4,166.91	11	3,830.20	11	3,478.49	11	3,120.95	11	2,761.94	11	2,402.85
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,481.93	1/4	4,160.04	1/4	3,823.02	1/4	3,471.04	1/4	3,113.49	1/4	2,754.46	1/4	2,395.37
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,475.37	1/2	4,153.17	1/2	3,815.83	1/2	3,463.60	1/2	3,106.02	1/2	2,746.98	1/2	2,387.89
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,468.81	3/4	4,146.30	3/4	3,808.64	3/4	3,456.15	3/4	3,098.56	3/4	2,739.49	3/4	2,380.41

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 52'-03" 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 29114"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08"

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	2,372.93	0	2,013.85	0	1,654.76	0	1,304.03	0	959.13	0	602.02	0	242.95	0		0		0	
1/4	2,365.45	1/4	2,006.37	1/4	1,647.28	1/4	1,296.83	1/4	951.95	1/4	594.54	1/4	235.47	1/4	1/4	1/4		1/4	1/4
1/2	2,357.97	1/2	1,998.89	1/2	1,639.80	1/2	1,289.63	1/2	944.77	1/2	587.06	1/2	227.99	1/2	1/2	1/2		1/2	1/2
3/4	2,350.49	3/4	1,991.40	3/4	1,632.32	3/4	1,282.43	3/4	937.60	3/4	579.58	3/4	220.51	3/4	3/4	3/4		3/4	3/4
1	2,343.01	1	1,983.92	1	1,624.84	1	1,275.23	1	930.42	1	572.10	1	213.02	1	1	1		1	1
1/4	2,335.53	1/4	1,976.44	1/4	1,617.36	1/4	1,268.04	1/4	923.13	1/4	564.62	1/4	205.55	1/4	1/4	1/4		1/4	1/4
1/2	2,328.04	1/2	1,968.96	1/2	1,609.88	1/2	1,260.84	1/2	915.83	1/2	557.14	1/2	198.07	1/2	1/2	1/2		1/2	1/2
3/4	2,320.56	3/4	1,961.48	3/4	1,602.40	3/4	1,253.64	3/4	908.54	3/4	549.66	3/4	190.59	3/4	3/4	3/4		3/4	3/4
2	2,313.08	2	1,954.00	2	1,594.92	2	1,246.44	2	901.25	2	542.17	2	183.11	2	2	2		2	2
1/4	2,305.60	1/4	1,946.52	1/4	1,587.44	1/4	1,239.24	1/4	893.77	1/4	534.69	1/4	175.64	1/4	1/4	1/4		1/4	1/4
1/2	2,298.12	1/2	1,939.04	1/2	1,579.95	1/2	1,232.05	1/2	886.29	1/2	527.21	1/2	168.17	1/2	1/2	1/2		1/2	1/2
3/4	2,290.64	3/4	1,931.56	3/4	1,572.47	3/4	1,224.85	3/4	878.81	3/4	519.73	3/4	160.69	3/4	3/4	3/4		3/4	3/4
3	2,283.16	3	1,924.08	3	1,564.99	3	1,217.65	3	871.33	3	512.25	3	153.22	3	3	3		3	3
1/4	2,275.68	1/4	1,916.60	1/4	1,557.51	1/4	1,210.46	1/4	863.85	1/4	504.77	1/4	145.76	1/4	1/4	1/4		1/4	1/4
1/2	2,268.20	1/2	1,909.11	1/2	1,550.03	1/2	1,203.26	1/2	856.36	1/2	497.29	1/2	138.30	1/2	1/2	1/2		1/2	1/2
3/4	2,260.72	3/4	1,901.63	3/4	1,542.55	3/4	1,196.07	3/4	848.88	3/4	489.81	3/4	130.84	3/4	3/4	3/4		3/4	3/4
4	2,253.24	4	1,894.15	4	1,535.07	4	1,188.88	4	841.40	4	482.33	4	123.38	4	4	4		4	4
1/4	2,245.75	1/4	1,886.67	1/4	1,527.69	1/4	1,181.69	1/4	833.92	1/4	474.85	1/4	115.93	1/4	1/4	1/4		1/4	1/4
1/2	2,238.27	1/2	1,879.19	1/2	1,520.32	1/2	1,174.51	1/2	826.44	1/2	467.37	1/2	108.49	1/2	1/2	1/2		1/2	1/2
3/4	2,230.79	3/4	1,871.71	3/4	1,512.94	3/4	1,167.32	3/4	818.96	3/4	459.89	3/4	101.05	3/4	3/4	3/4		3/4	3/4
5	2,223.31	5	1,864.23	5	1,505.57	5	1,160.14	5	811.48	5	452.41	5	93.61	5	5	5		5	5
1/4	2,215.83	1/4	1,856.75	1/4	1,498.37	1/4	1,152.95	1/4	804.00	1/4	444.93	1/4	86.19	1/4	1/4	1/4		1/4	1/4
1/2	2,208.35	1/2	1,849.27	1/2	1,491.17	1/2	1,145.77	1/2	796.52	1/2	437.45	1/2	78.78	1/2	1/2	1/2		1/2	1/2
3/4	2,200.87	3/4	1,841.79	3/4	1,483.98	3/4	1,138.59	3/4	789.04	3/4	429.96	3/4	71.37	3/4	3/4	3/4		3/4	3/4
6	2,193.39	6	1,834.31	6	1,476.78	6	1,131.40	6	781.56	6	422.48	6	63.96	6	6	6		6	6
1/4	2,185.91	1/4	1,826.82	1/4	1,469.58	1/4	1,124.23	1/4	774.08	1/4	415.00	1/4	57.01	1/4	1/4	1/4		1/4	1/4
1/2	2,178.43	1/2	1,819.34	1/2	1,462.38	1/2	1,117.05	1/2	766.60	1/2	407.52	1/2	50.05	1/2	1/2	1/2		1/2	1/2
3/4	2,170.95	3/4	1,811.86	3/4	1,455.18	3/4	1,109.87	3/4	759.12	3/4	400.04	3/4	43.10	3/4	3/4	3/4		3/4	3/4
7	2,163.47	7	1,804.38	7	1,447.99	7	1,102.69	7	751.63	7	392.56	7	36.15	7	7	7		7	7
1/4	2,155.98	1/4	1,796.90	1/4	1,440.79	1/4	1,095.51	1/4	744.15	1/4	385.08	1/4	30.85	1/4	1/4	1/4		1/4	1/4
1/2	2,148.50	1/2	1,789.42	1/2	1,433.59	1/2	1,088.34	1/2	736.67	1/2	377.60	1/2	25.56	1/2	1/2	1/2		1/2	1/2
3/4	2,141.02	3/4	1,781.94	3/4	1,426.39	3/4	1,081.16	3/4	729.19	3/4	370.12	3/4	20.26	3/4	3/4	3/4		3/4	3/4
8	2,133.54	8	1,774.46	8	1,419.19	8	1,073.98	8	721.71	8	362.64	8	14.96	8	8	8		8	8
1/4	2,126.06	1/4	1,766.98	1/4	1,412.00	1/4	1,066.80	1/4	714.23	1/4	355.16	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,118.58	1/2	1,759.50	1/2	1,404.80	1/2	1,059.62	1/2	706.75	1/2	347.68	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,111.10	3/4	1,752.02	3/4	1,397.60	3/4	1,052.45	3/4	699.27	3/4	340.20	3/4		3/4	3/4	3/4		3/4	3/4
9	2,103.62	9	1,744.53	9	1,390.40	9	1,045.27	9	691.79	9	332.72	9		9	9	9		9	9
1/4	2,096.14	1/4	1,737.05	1/4	1,383.20	1/4	1,038.09	1/4	684.31	1/4	325.23	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,088.66	1/2	1,729.57	1/2	1,376.01	1/2	1,030.91	1/2	676.83	1/2	317.75	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,081.18	3/4	1,722.09	3/4	1,368.81	3/4	1,023.73	3/4	669.35	3/4	310.27	3/4		3/4	3/4	3/4		3/4	3/4
10	2,073.69	10	1,714.61	10	1,361.61	10	1,016.55	10	661.87	10	302.79	10		10	10	10		10	10
1/4	2,066.21	1/4	1,707.13	1/4	1,354.41	1/4	1,009.38	1/4	654.39	1/4	295.31	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,058.73	1/2	1,699.65	1/2	1,347.21	1/2	1,002.20	1/2	646.90	1/2	287.83	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,051.25	3/4	1,692.17	3/4	1,340.02	3/4	995.02	3/4	639.42	3/4	280.35	3/4		3/4	3/4	3/4		3/4	3/4
11	2,043.77	11	1,684.69	11	1,332.82	11	987.84	11	631.94	11	272.87	11		11	11	11		11	11
1/4	2,036.29	1/4	1,677.21	1/4	1,325.62	1/4	980.66	1/4	624.46	1/4	265.39	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,028.81	1/2	1,669.73	1/2	1,318.42	1/2	973.49	1/2	616.98	1/2	257.91	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,021.33	3/4	1,662.24	3/4	1,311.22	3/4	966.31	3/4	609.50	3/4	250.43	3/4		3/4	3/4	3/4		3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/03/2013 CL
CALCULATED: 04/03/2013 CL
PRINTED: 04/03/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2013

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



BARGE "KIRBY 29114"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08 1/4"

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
									4,491.83		4,169.40		3,831.82		3,479.42		3,121.94		2,762.96
1/4		1/4		1/4		1/4		1/4	4,485.28	1/4	4,162.53	1/4	3,824.64	1/4	3,471.97	1/4	3,114.48	1/4	2,755.48
1/2		1/2		1/2		1/2		1/2	4,478.70	1/2	4,155.63	1/2	3,817.43	1/2	3,464.52	1/2	3,107.00	1/2	2,748.00
3/4		3/4		3/4		3/4		3/4	4,789.08	3/4	4,472.12	3/4	4,148.73	3/4	3,810.21	3/4	3,457.07	3/4	3,099.53
1	1	1	1	1	1	1	1	1	4,465.54	1	4,141.83	1	3,803.00	1	3,449.63	1	3,092.05	1	2,733.04
1/4		1/4		1/4		1/4		1/4	4,778.86	1/4	4,458.96	1/4	4,134.93	1/4	3,795.79	1/4	3,442.18	1/4	3,084.57
1/2		1/2		1/2		1/2		1/2	4,772.51	1/2	4,452.36	1/2	4,128.01	1/2	3,788.55	1/2	3,434.73	1/2	3,077.09
3/4		3/4		3/4		3/4		3/4	4,766.17	3/4	4,445.75	3/4	4,121.09	3/4	3,781.31	3/4	3,427.29	3/4	3,069.61
2	2	2	2	2	2	2	2	2	4,759.83	2	4,439.15	2	4,114.17	2	3,774.07	2	3,419.84	2	3,062.13
1/4		1/4		1/4		1/4		1/4	4,753.49	1/4	4,432.55	1/4	4,107.25	1/4	3,766.83	1/4	3,412.39	1/4	3,054.65
1/2		1/2		1/2		1/2		1/2	4,746.26	1/2	4,425.91	1/2	4,100.31	1/2	3,759.57	1/2	3,404.95	1/2	3,047.17
3/4		3/4		3/4		3/4		3/4	4,739.04	3/4	4,419.28	3/4	4,093.36	3/4	3,752.31	3/4	3,397.50	3/4	3,039.69
3	3	3	3	3	3	3	3	3	4,731.81	3	4,412.65	3	4,086.42	3	3,745.05	3	3,390.05	3	3,032.21
1/4		1/4		1/4		1/4		1/4	4,724.58	1/4	4,406.02	1/4	4,079.47	1/4	3,737.79	1/4	3,382.60	1/4	3,024.73
1/2		1/2		1/2		1/2		1/2	4,717.14	1/2	4,399.36	1/2	4,072.50	1/2	3,730.50	1/2	3,375.16	1/2	3,017.25
3/4		3/4		3/4		3/4		3/4	4,709.69	3/4	4,392.71	3/4	4,065.53	3/4	3,723.21	3/4	3,367.71	3/4	3,009.77
4	4	4	4	4	4	4	4	4	4,702.24	4	4,386.05	4	4,058.55	4	3,715.93	4	3,360.26	4	3,002.30
1/4		1/4		1/4		1/4		1/4	4,694.80	1/4	4,379.39	1/4	4,051.58	1/4	3,708.64	1/4	3,352.82	1/4	2,994.82
1/2		1/2		1/2		1/2		1/2	4,687.75	1/2	4,372.71	1/2	4,044.58	1/2	3,701.33	1/2	3,345.37	1/2	2,987.34
3/4		3/4		3/4		3/4		3/4	4,680.70	3/4	4,366.02	3/4	4,037.58	3/4	3,694.01	3/4	3,337.92	3/4	2,979.86
5	5	5	5	5	5	5	5	5	4,673.65	5	4,359.34	5	4,030.58	5	3,686.70	5	3,330.48	5	2,972.38
1/4		1/4		1/4		1/4		1/4	4,666.60	1/4	4,352.66	1/4	4,023.59	1/4	3,679.38	1/4	3,323.03	1/4	2,964.90
1/2		1/2		1/2		1/2		1/2	4,660.20	1/2	4,345.95	1/2	4,016.56	1/2	3,672.04	1/2	3,315.58	1/2	2,957.42
3/4		3/4		3/4		3/4		3/4	4,653.81	3/4	4,339.24	3/4	4,009.53	3/4	3,664.70	3/4	3,308.13	3/4	2,949.94
6	6	6	6	6	6	6	6	6	4,647.41	6	4,332.53	6	4,002.51	6	3,657.36	6	3,300.69	6	2,942.46
1/4		1/4		1/4		1/4		1/4	4,641.01	1/4	4,325.82	1/4	3,995.48	1/4	3,650.02	1/4	3,293.24	1/4	2,934.98
1/2		1/2		1/2		1/2		1/2	4,634.59	1/2	4,319.08	1/2	3,988.43	1/2	3,642.65	1/2	3,285.79	1/2	2,927.50
3/4		3/4		3/4		3/4		3/4	4,628.17	3/4	4,312.34	3/4	3,981.38	3/4	3,635.29	3/4	3,278.35	3/4	2,920.02
7	7	7	7	7	7	7	7	7	4,621.75	7	4,305.60	7	3,974.33	7	3,627.92	7	3,270.90	7	2,912.55
1/4		1/4		1/4		1/4		1/4	4,615.33	1/4	4,298.87	1/4	3,967.28	1/4	3,620.55	1/4	3,263.45	1/4	2,905.07
1/2		1/2		1/2		1/2		1/2	4,608.88	1/2	4,292.10	1/2	3,960.20	1/2	3,613.16	1/2	3,256.01	1/2	2,897.59
3/4		3/4		3/4		3/4		3/4	4,602.43	3/4	4,285.34	3/4	3,953.12	3/4	3,605.77	3/4	3,248.56	3/4	2,890.11
8	8	8	8	8	8	8	8	8	4,595.98	8	4,278.58	8	3,946.04	8	3,598.37	8	3,241.11	8	2,882.63
1/4		1/4		1/4		1/4		1/4	4,589.53	1/4	4,271.81	1/4	3,938.96	1/4	3,590.98	1/4	3,233.66	1/4	2,875.15
1/2		1/2		1/2		1/2		1/2	4,583.05	1/2	4,265.02	1/2	3,931.86	1/2	3,583.56	1/2	3,226.22	1/2	2,867.67
3/4		3/4		3/4		3/4		3/4	4,576.58	3/4	4,258.23	3/4	3,924.75	3/4	3,576.14	3/4	3,218.77	3/4	2,860.19
9	9	9	9	9	9	9	9	9	4,570.10	9	4,251.44	9	3,917.65	9	3,568.72	9	3,211.32	9	2,852.71
1/4		1/4		1/4		1/4		1/4	4,563.63	1/4	4,244.65	1/4	3,910.54	1/4	3,561.30	1/4	3,203.88	1/4	2,845.23
1/2		1/2		1/2		1/2		1/2	4,557.12	1/2	4,237.83	1/2	3,903.41	1/2	3,553.86	1/2	3,196.43	1/2	2,837.75
3/4		3/4		3/4		3/4		3/4	4,550.62	3/4	4,231.02	3/4	3,896.28	3/4	3,546.42	3/4	3,188.98	3/4	2,830.27
10	10	10	10	10	10	10	10	10	4,544.12	10	4,224.20	10	3,889.15	10	3,538.98	10	3,181.54	10	2,822.79
1/4		1/4		1/4		1/4		1/4	4,537.62	1/4	4,217.38	1/4	3,882.01	1/4	3,531.54	1/4	3,174.09	1/4	2,815.32
1/2		1/2		1/2		1/2		1/2	4,531.09	1/2	4,210.54	1/2	3,874.85	1/2	3,524.10	1/2	3,166.64	1/2	2,807.84
3/4		3/4		3/4		3/4		3/4	4,524.56	3/4	4,203.69	3/4	3,867.70	3/4	3,516.65	3/4	3,159.19	3/4	2,800.36
11	11	11	11	11	11	11	11	11	4,518.03	11	4,196.85	11	3,860.54	11	3,509.20	11	3,151.75	11	2,792.88
1/4		1/4		1/4		1/4		1/4	4,511.50	1/4	4,190.01	1/4	3,853.38	1/4	3,501.76	1/4	3,144.30	1/4	2,785.40
1/2		1/2		1/2		1/2		1/2	4,504.94	1/2	4,183.14	1/2	3,846.19	1/2	3,494.31	1/2	3,136.85	1/2	2,777.92
3/4		3/4		3/4		3/4		3/4	4,498.39	3/4	4,176.27	3/4	3,839.01	3/4	3,486.86	3/4	3,129.39	3/4	2,770.44

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 52'-03" 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 29114"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08 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	2,403.96	0	2,044.96	0	1,685.96	0	1,326.95	0	968.20	0	609.35	0	250.37	0		0		0	
1/4	2,396.48	1/4	2,037.48	1/4	1,678.48	1/4	1,319.48	1/4	960.74	1/4	601.87	1/4	242.89	1/4	1/4		1/4		1/4
1/2	2,389.00	1/2	2,030.00	1/2	1,671.00	1/2	1,312.00	1/2	953.27	1/2	594.40	1/2	235.41	1/2	1/2		1/2		1/2
3/4	2,381.52	3/4	2,022.52	3/4	1,663.52	3/4	1,304.52	3/4	945.80	3/4	586.92	3/4	227.93	3/4	3/4		3/4		3/4
1	2,374.04	1	2,015.04	1	1,656.04	1	1,297.04	1	938.34	1	579.44	1	220.45	1	1		1		1
1/4	2,366.56	1/4	2,007.56	1/4	1,648.56	1/4	1,289.56	1/4	930.87	1/4	571.96	1/4	212.97	1/4	1/4		1/4		1/4
1/2	2,359.08	1/2	2,000.08	1/2	1,641.08	1/2	1,282.08	1/2	923.40	1/2	564.48	1/2	205.50	1/2	1/2		1/2		1/2
3/4	2,351.61	3/4	1,992.60	3/4	1,633.60	3/4	1,274.60	3/4	915.94	3/4	557.00	3/4	198.02	3/4	3/4		3/4		3/4
2	2,344.13	2	1,985.12	2	1,626.12	2	1,267.12	2	908.47	2	549.52	2	190.54	2	2		2		2
1/4	2,336.65	1/4	1,977.65	1/4	1,618.64	1/4	1,259.64	1/4	901.00	1/4	542.04	1/4	183.07	1/4	1/4		1/4		1/4
1/2	2,329.17	1/2	1,970.17	1/2	1,611.16	1/2	1,252.16	1/2	893.53	1/2	534.56	1/2	175.60	1/2	1/2		1/2		1/2
3/4	2,321.69	3/4	1,962.69	3/4	1,603.69	3/4	1,244.68	3/4	886.06	3/4	527.09	3/4	168.13	3/4	3/4		3/4		3/4
3	2,314.21	3	1,955.21	3	1,596.21	3	1,237.20	3	878.59	3	519.61	3	160.65	3	3		3		3
1/4	2,306.73	1/4	1,947.73	1/4	1,588.73	1/4	1,229.73	1/4	871.12	1/4	512.13	1/4	153.18	1/4	1/4		1/4		1/4
1/2	2,299.25	1/2	1,940.25	1/2	1,581.25	1/2	1,222.25	1/2	863.64	1/2	504.65	1/2	145.72	1/2	1/2		1/2		1/2
3/4	2,291.77	3/4	1,932.77	3/4	1,573.77	3/4	1,214.77	3/4	856.16	3/4	497.17	3/4	138.27	3/4	3/4		3/4		3/4
4	2,284.29	4	1,925.29	4	1,566.29	4	1,207.29	4	848.68	4	489.69	4	130.81	4	4		4		4
1/4	2,276.81	1/4	1,917.81	1/4	1,558.81	1/4	1,199.81	1/4	841.20	1/4	482.21	1/4	123.35	1/4	1/4		1/4		1/4
1/2	2,269.33	1/2	1,910.33	1/2	1,551.33	1/2	1,192.33	1/2	833.72	1/2	474.73	1/2	115.91	1/2	1/2		1/2		1/2
3/4	2,261.85	3/4	1,902.85	3/4	1,543.85	3/4	1,184.85	3/4	826.24	3/4	467.25	3/4	108.47	3/4	3/4		3/4		3/4
5	2,254.38	5	1,895.37	5	1,536.37	5	1,177.37	5	818.76	5	459.78	5	101.02	5	5		5		5
1/4	2,246.90	1/4	1,887.89	1/4	1,528.89	1/4	1,169.89	1/4	811.28	1/4	452.30	1/4	93.58	1/4	1/4		1/4		1/4
1/2	2,239.42	1/2	1,880.42	1/2	1,521.41	1/2	1,162.41	1/2	803.81	1/2	444.82	1/2	86.17	1/2	1/2		1/2		1/2
3/4	2,231.94	3/4	1,872.94	3/4	1,513.93	3/4	1,154.93	3/4	796.33	3/4	437.34	3/4	78.76	3/4	3/4		3/4		3/4
6	2,224.46	6	1,865.46	6	1,506.46	6	1,147.45	6	788.85	6	429.86	6	71.35	6	6		6		6
1/4	2,216.98	1/4	1,857.98	1/4	1,498.98	1/4	1,139.97	1/4	781.37	1/4	422.38	1/4	63.94	1/4	1/4		1/4		1/4
1/2	2,209.50	1/2	1,850.50	1/2	1,491.50	1/2	1,132.50	1/2	773.89	1/2	414.90	1/2	56.99	1/2	1/2		1/2		1/2
3/4	2,202.02	3/4	1,843.02	3/4	1,484.02	3/4	1,125.03	3/4	766.41	3/4	407.42	3/4	50.04	3/4	3/4		3/4		3/4
7	2,194.54	7	1,835.54	7	1,476.54	7	1,117.55	7	758.93	7	399.94	7	43.09	7	7		7		7
1/4	2,187.06	1/4	1,828.06	1/4	1,469.06	1/4	1,110.08	1/4	751.45	1/4	392.47	1/4	36.14	1/4	1/4		1/4		1/4
1/2	2,179.58	1/2	1,820.58	1/2	1,461.58	1/2	1,102.61	1/2	743.97	1/2	384.99	1/2	30.84	1/2	1/2		1/2		1/2
3/4	2,172.10	3/4	1,813.10	3/4	1,454.10	3/4	1,095.14	3/4	736.50	3/4	377.51	3/4	25.55	3/4	3/4		3/4		3/4
8	2,164.63	8	1,805.62	8	1,446.62	8	1,087.68	8	729.02	8	370.03	8	20.26	8	8		8		8
1/4	2,157.15	1/4	1,798.14	1/4	1,439.14	1/4	1,080.21	1/4	721.54	1/4	362.55	1/4	14.96	1/4	1/4		1/4		1/4
1/2	2,149.67	1/2	1,790.67	1/2	1,431.66	1/2	1,072.74	1/2	714.06	1/2	355.07	1/2		1/2	1/2		1/2		1/2
3/4	2,142.19	3/4	1,783.19	3/4	1,424.18	3/4	1,065.28	3/4	706.58	3/4	347.59	3/4		3/4	3/4		3/4		3/4
9	2,134.71	9	1,775.71	9	1,416.71	9	1,057.81	9	699.10	9	340.11	9		9	9		9		9
1/4	2,127.23	1/4	1,768.23	1/4	1,409.23	1/4	1,050.34	1/4	691.62	1/4	332.63	1/4		1/4	1/4		1/4		1/4
1/2	2,119.75	1/2	1,760.75	1/2	1,401.75	1/2	1,042.87	1/2	684.14	1/2	325.16	1/2		1/2	1/2		1/2		1/2
3/4	2,112.27	3/4	1,753.27	3/4	1,394.27	3/4	1,035.41	3/4	676.66	3/4	317.68	3/4		3/4	3/4		3/4		3/4
10	2,104.79	10	1,745.79	10	1,386.79	10	1,027.94	10	669.19	10	310.20	10		10	10		10		10
1/4	2,097.31	1/4	1,738.31	1/4	1,379.31	1/4	1,020.47	1/4	661.71	1/4	302.72	1/4		1/4	1/4		1/4		1/4
1/2	2,089.83	1/2	1,730.83	1/2	1,371.83	1/2	1,013.01	1/2	654.23	1/2	295.24	1/2		1/2	1/2		1/2		1/2
3/4	2,082.35	3/4	1,723.35	3/4	1,364.35	3/4	1,005.54	3/4	646.75	3/4	287.76	3/4		3/4	3/4		3/4		3/4
11	2,074.87	11	1,715.87	11	1,356.87	11	998.07	11	639.27	11	280.28	11		11	11		11		11
1/4	2,067.40	1/4	1,708.39	1/4	1,349.39	1/4	990.61	1/4	631.79	1/4	272.80	1/4		1/4	1/4		1/4		1/4
1/2	2,059.92	1/2	1,700.91	1/2	1,341.91	1/2	983.14	1/2	624.31	1/2	265.32	1/2		1/2	1/2		1/2		1/2
3/4	2,052.44	3/4	1,693.44	3/4	1,334.43	3/4	975.67	3/4	616.83	3/4	257.85	3/4		3/4	3/4		3/4		3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/03/2013 CL
CALCULATED: 04/03/2013 CL
PRINTED: 04/03/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2013

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



BARGE "KIRBY 29114"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 1/4"

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	4,351.94	0	4,110.74	0	3,864.14	0	3,605.55	0	3,335.32	0	2,981.30	0	2,624.93
1/4		1/4		1/4		1/4	4,347.31	1/4	4,105.73	1/4	3,858.87	1/4	3,600.04	1/4	3,329.61	1/4	2,973.87	1/4	2,617.51
1/2		1/2		1/2		1/2	4,343.16	1/2	4,100.71	1/2	3,853.60	1/2	3,594.51	1/2	3,322.19	1/2	2,966.45	1/2	2,610.09
3/4		3/4		3/4		3/4	4,339.01	3/4	4,095.68	3/4	3,848.32	3/4	3,588.98	3/4	3,314.76	3/4	2,959.02	3/4	2,602.66
1		1		1		1	4,334.86	1	4,090.66	1	3,843.04	1	3,583.45	1	3,307.33	1	2,951.60	1	2,595.24
1/4		1/4		1/4		1/4	4,330.71	1/4	4,085.63	1/4	3,837.76	1/4	3,577.92	1/4	3,299.90	1/4	2,944.18	1/4	2,587.81
1/2		1/2		1/2		1/2	4,325.35	1/2	4,080.58	1/2	3,832.47	1/2	3,572.37	1/2	3,292.48	1/2	2,936.75	1/2	2,580.39
3/4		3/4		3/4		3/4	4,320.00	3/4	4,075.53	3/4	3,827.17	3/4	3,566.82	3/4	3,285.05	3/4	2,929.33	3/4	2,572.97
2		2		2		2	4,314.64	2	4,070.48	2	3,821.87	2	3,561.27	2	3,277.62	2	2,921.90	2	2,565.54
1/4		1/4		1/4		1/4	4,309.29	1/4	4,065.43	1/4	3,816.58	1/4	3,555.72	1/4	3,270.20	1/4	2,914.48	1/4	2,558.12
1/2		1/2		1/2		1/2	4,303.59	1/2	4,060.37	1/2	3,811.26	1/2	3,550.15	1/2	3,262.77	1/2	2,907.05	1/2	2,550.69
3/4		3/4		3/4		3/4	4,297.88	3/4	4,055.30	3/4	3,805.94	3/4	3,544.59	3/4	3,255.34	3/4	2,899.63	3/4	2,543.27
3		3		3		3	4,292.18	3	4,050.23	3	3,800.62	3	3,539.02	3	3,247.91	3	2,892.21	3	2,535.84
1/4		1/4		1/4		1/4	4,286.48	1/4	4,045.16	1/4	3,795.30	1/4	3,533.45	1/4	3,240.49	1/4	2,884.78	1/4	2,528.42
1/2		1/2		1/2		1/2	4,280.77	1/2	4,040.07	1/2	3,789.96	1/2	3,527.86	1/2	3,233.06	1/2	2,877.36	1/2	2,521.00
3/4		3/4		3/4		3/4	4,275.07	3/4	4,034.98	3/4	3,784.62	3/4	3,522.27	3/4	3,225.63	3/4	2,869.93	3/4	2,513.57
4		4		4		4	4,269.37	4	4,029.89	4	3,779.28	4	3,516.68	4	3,218.20	4	2,862.51	4	2,506.15
1/4		1/4		1/4		1/4	4,263.66	1/4	4,024.80	1/4	3,773.94	1/4	3,511.09	1/4	3,210.78	1/4	2,855.09	1/4	2,498.72
1/2		1/2		1/2		1/2	4,258.80	1/2	4,019.69	1/2	3,768.58	1/2	3,505.48	1/2	3,203.38	1/2	2,847.66	1/2	2,491.30
3/4		3/4		3/4		3/4	4,253.94	3/4	4,014.58	3/4	3,763.22	3/4	3,499.87	3/4	3,195.98	3/4	2,840.24	3/4	2,483.88
5		5		5		5	4,249.08	5	4,009.47	5	3,757.85	5	3,494.26	5	3,188.58	5	2,832.81	5	2,476.45
1/4		1/4		1/4		1/4	4,244.21	1/4	4,004.36	1/4	3,752.49	1/4	3,488.65	1/4	3,181.18	1/4	2,825.39	1/4	2,469.03
1/2		1/2		1/2		1/2	4,239.33	1/2	3,999.23	1/2	3,747.11	1/2	3,483.02	1/2	3,173.78	1/2	2,817.96	1/2	2,461.60
3/4		3/4		3/4		3/4	4,234.45	3/4	3,994.09	3/4	3,741.73	3/4	3,477.39	3/4	3,166.38	3/4	2,810.54	3/4	2,454.18
6		6		6		6	4,229.57	6	3,988.96	6	3,736.35	6	3,471.76	6	3,158.98	6	2,803.12	6	2,446.75
1/4		1/4		1/4		1/4	4,224.69	1/4	3,983.83	1/4	3,730.97	1/4	3,466.12	1/4	3,151.58	1/4	2,795.69	1/4	2,439.33
1/2		1/2		1/2		1/2	4,219.78	1/2	3,978.67	1/2	3,725.57	1/2	3,460.47	1/2	3,144.17	1/2	2,788.27	1/2	2,431.91
3/4		3/4		3/4		3/4	4,214.88	3/4	3,973.52	3/4	3,720.16	3/4	3,454.82	3/4	3,136.77	3/4	2,780.84	3/4	2,424.48
7		7		7		7	4,209.97	7	3,968.37	7	3,714.76	7	3,449.17	7	3,129.37	7	2,773.42	7	2,417.06
1/4		1/4		1/4		1/4	4,205.07	1/4	3,963.22	1/4	3,709.36	1/4	3,443.52	1/4	3,121.97	1/4	2,765.99	1/4	2,409.63
1/2		1/2		1/2		1/2	4,200.15	1/2	3,958.04	1/2	3,703.93	1/2	3,437.84	1/2	3,114.57	1/2	2,758.57	1/2	2,402.21
3/4		3/4		3/4		3/4	4,195.22	3/4	3,952.87	3/4	3,698.51	3/4	3,432.17	3/4	3,107.17	3/4	2,751.15	3/4	2,394.78
8		8		8		8	4,190.30	8	3,947.69	8	3,693.09	8	3,426.49	8	3,099.77	8	2,743.72	8	2,387.36
1/4		1/4		1/4		1/4	4,185.38	1/4	3,942.51	1/4	3,687.67	1/4	3,420.82	1/4	3,092.37	1/4	2,736.30	1/4	2,379.94
1/2		1/2		1/2		1/2	4,180.43	1/2	3,937.32	1/2	3,682.22	1/2	3,415.13	1/2	3,084.97	1/2	2,728.87	1/2	2,372.51
3/4		3/4		3/4		3/4	4,175.48	3/4	3,932.13	3/4	3,676.77	3/4	3,409.43	3/4	3,077.57	3/4	2,721.45	3/4	2,365.09
9		9		9		9	4,170.53	9	3,926.93	9	3,671.33	9	3,403.74	9	3,070.17	9	2,714.03	9	2,357.66
1/4		1/4		1/4		1/4	4,165.59	1/4	3,921.74	1/4	3,665.88	1/4	3,398.05	1/4	3,062.77	1/4	2,706.60	1/4	2,350.24
1/2		1/2		1/2		1/2	4,160.62	1/2	3,916.52	1/2	3,660.42	1/2	3,392.34	1/2	3,055.37	1/2	2,699.18	1/2	2,342.81
3/4		3/4		3/4		3/4	4,155.66	3/4	3,911.30	3/4	3,654.95	3/4	3,386.64	3/4	3,047.97	3/4	2,691.75	3/4	2,335.39
10		10		10		10	4,150.69	10	3,906.08	10	3,649.49	10	3,380.94	10	3,040.57	10	2,684.33	10	2,327.96
1/4		1/4		1/4		1/4	4,145.73	1/4	3,900.86	1/4	3,644.02	1/4	3,375.24	1/4	3,033.17	1/4	2,676.90	1/4	2,320.54
1/2		1/2		1/2		1/2	4,140.73	1/2	3,895.63	1/2	3,638.53	1/2	3,369.53	1/2	3,025.77	1/2	2,669.48	1/2	2,313.11
3/4		3/4		3/4		3/4	4,135.74	3/4	3,890.39	3/4	3,633.05	3/4	3,363.83	3/4	3,018.37	3/4	2,662.06	3/4	2,305.69
11		11		11		11	4,130.75	11	3,885.16	11	3,627.56	11	3,358.13	11	3,010.97	11	2,654.63	11	2,298.26
1/4		1/4		1/4	4,365.84	1/4	4,125.76	1/4	3,879.92	1/4	3,622.07	1/4	3,352.42	1/4	3,003.57	1/4	2,647.21	1/4	2,290.84
1/2		1/2		1/2	4,361.21	1/2	4,120.75	1/2	3,874.66	1/2	3,616.56	1/2	3,346.72	1/2	2,996.14	1/2	2,639.78	1/2	2,283.42
3/4		3/4		3/4	4,356.58	3/4	4,115.75	3/4	3,869.40	3/4	3,611.06	3/4	3,341.02	3/4	2,988.72	3/4	2,632.36	3/4	2,275.99

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.

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 29114"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 1/4"

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	2,268.57	0	1,911.74	0	1,555.92	0	1,199.68	0	855.27	0	498.33	0	141.21	0		0		0	
1/4	2,261.14	1/4	1,904.30	1/4	1,548.50	1/4	1,192.51	1/4	847.85	1/4	490.89	1/4	133.77	1/4		1/4		1/4	
1/2	2,253.72	1/2	1,896.89	1/2	1,541.07	1/2	1,185.34	1/2	840.43	1/2	483.45	1/2	126.33	1/2		1/2		1/2	
3/4	2,246.29	3/4	1,889.48	3/4	1,533.63	3/4	1,178.17	3/4	833.01	3/4	476.01	3/4	118.89	3/4		3/4		3/4	
1	2,238.87	1	1,882.07	1	1,526.19	1	1,171.00	1	825.59	1	468.57	1	111.45	1		1		1	
1/4	2,231.44	1/4	1,874.65	1/4	1,518.75	1/4	1,163.83	1/4	818.17	1/4	461.13	1/4	104.01	1/4		1/4		1/4	
1/2	2,224.02	1/2	1,867.24	1/2	1,511.31	1/2	1,156.66	1/2	810.75	1/2	453.69	1/2	96.88	1/2		1/2		1/2	
3/4	2,216.59	3/4	1,859.83	3/4	1,503.87	3/4	1,149.49	3/4	803.33	3/4	446.25	3/4	89.76	3/4		3/4		3/4	
2	2,209.17	2	1,852.42	2	1,496.43	2	1,142.32	2	795.91	2	438.81	2	82.63	2		2		2	
1/4	2,201.74	1/4	1,845.00	1/4	1,488.99	1/4	1,135.15	1/4	788.50	1/4	431.37	1/4	75.51	1/4		1/4		1/4	
1/2	2,194.32	1/2	1,837.59	1/2	1,481.56	1/2	1,127.98	1/2	781.06	1/2	423.93	1/2	69.32	1/2		1/2		1/2	
3/4	2,186.89	3/4	1,830.18	3/4	1,474.12	3/4	1,120.81	3/4	773.62	3/4	416.49	3/4	63.14	3/4		3/4		3/4	
3	2,179.47	3	1,822.77	3	1,466.68	3	1,113.64	3	766.18	3	409.05	3	56.96	3		3		3	
1/4	2,172.04	1/4	1,815.35	1/4	1,459.24	1/4	1,106.46	1/4	758.74	1/4	401.61	1/4	50.77	1/4		1/4		1/4	
1/2	2,164.62	1/2	1,807.94	1/2	1,451.80	1/2	1,099.29	1/2	751.30	1/2	394.17	1/2	45.84	1/2		1/2		1/2	
3/4	2,157.20	3/4	1,800.53	3/4	1,444.36	3/4	1,092.12	3/4	743.86	3/4	386.73	3/4	40.92	3/4		3/4		3/4	
4	2,149.77	4	1,793.12	4	1,436.92	4	1,084.95	4	736.42	4	379.29	4	35.99	4		4		4	
1/4	2,142.35	1/4	1,785.70	1/4	1,429.48	1/4	1,077.78	1/4	728.98	1/4	371.85	1/4	31.06	1/4		1/4		1/4	
1/2	2,134.91	1/2	1,778.29	1/2	1,422.04	1/2	1,070.62	1/2	721.53	1/2	364.41	1/2	27.39	1/2		1/2		1/2	
3/4	2,127.47	3/4	1,770.88	3/4	1,414.61	3/4	1,063.47	3/4	714.09	3/4	356.97	3/4	23.73	3/4		3/4		3/4	
5	2,120.03	5	1,763.47	5	1,407.17	5	1,056.31	5	706.65	5	349.53	5	20.06	5		5		5	
1/4	2,112.59	1/4	1,756.05	1/4	1,399.73	1/4	1,049.15	1/4	699.21	1/4	342.09	1/4	16.40	1/4		1/4		1/4	
1/2	2,105.15	1/2	1,748.64	1/2	1,392.29	1/2	1,042.00	1/2	691.77	1/2	334.65	1/2		1/2		1/2		1/2	
3/4	2,097.71	3/4	1,741.23	3/4	1,384.85	3/4	1,034.84	3/4	684.33	3/4	327.21	3/4		3/4		3/4		3/4	
6	2,090.27	6	1,733.82	6	1,377.41	6	1,027.68	6	676.89	6	319.77	6		6		6		6	
1/4	2,082.84	1/4	1,726.40	1/4	1,369.97	1/4	1,020.53	1/4	669.45	1/4	312.33	1/4		1/4		1/4		1/4	
1/2	2,075.40	1/2	1,718.99	1/2	1,362.53	1/2	1,013.37	1/2	662.01	1/2	304.89	1/2		1/2		1/2		1/2	
3/4	2,067.96	3/4	1,711.58	3/4	1,355.10	3/4	1,006.22	3/4	654.57	3/4	297.45	3/4		3/4		3/4		3/4	
7	2,060.52	7	1,704.17	7	1,347.66	7	999.07	7	647.13	7	290.01	7		7		7		7	
1/4	2,053.08	1/4	1,696.75	1/4	1,340.22	1/4	991.91	1/4	639.69	1/4	282.57	1/4		1/4		1/4		1/4	
1/2	2,045.64	1/2	1,689.34	1/2	1,332.78	1/2	984.76	1/2	632.25	1/2	275.13	1/2		1/2		1/2		1/2	
3/4	2,038.20	3/4	1,681.93	3/4	1,325.34	3/4	977.61	3/4	624.81	3/4	267.69	3/4		3/4		3/4		3/4	
8	2,030.76	8	1,674.52	8	1,317.90	8	970.46	8	617.37	8	260.25	8		8		8		8	
1/4	2,023.33	1/4	1,667.10	1/4	1,310.46	1/4	963.32	1/4	609.93	1/4	252.81	1/4		1/4		1/4		1/4	
1/2	2,015.89	1/2	1,659.69	1/2	1,303.02	1/2	956.17	1/2	602.49	1/2	245.37	1/2		1/2		1/2		1/2	
3/4	2,008.45	3/4	1,652.28	3/4	1,295.59	3/4	949.02	3/4	595.05	3/4	237.93	3/4		3/4		3/4		3/4	
9	2,001.01	9	1,644.87	9	1,288.15	9	941.87	9	587.61	9	230.49	9		9		9		9	
1/4	1,993.57	1/4	1,637.45	1/4	1,280.71	1/4	934.72	1/4	580.17	1/4	223.05	1/4		1/4		1/4		1/4	
1/2	1,986.13	1/2	1,630.04	1/2	1,273.27	1/2	927.57	1/2	572.73	1/2	215.61	1/2		1/2		1/2		1/2	
3/4	1,978.69	3/4	1,622.63	3/4	1,265.83	3/4	920.42	3/4	565.29	3/4	208.17	3/4		3/4		3/4		3/4	
10	1,971.25	10	1,615.22	10	1,258.39	10	913.27	10	557.85	10	200.73	10		10		10		10	
1/4	1,963.81	1/4	1,607.80	1/4	1,250.95	1/4	906.12	1/4	550.41	1/4	193.29	1/4		1/4		1/4		1/4	
1/2	1,956.38	1/2	1,600.39	1/2	1,243.51	1/2	898.97	1/2	542.97	1/2	185.85	1/2		1/2		1/2		1/2	
3/4	1,948.94	3/4	1,592.98	3/4	1,236.07	3/4	891.82	3/4	535.53	3/4	178.41	3/4		3/4		3/4		3/4	
11	1,941.50	11	1,585.57	11	1,228.64	11	884.67	11	528.09	11	170.97	11		11		11		11	
1/4	1,934.06	1/4	1,578.15	1/4	1,221.20	1/4	877.52	1/4	520.65	1/4	163.53	1/4		1/4		1/4		1/4	
1/2	1,926.62	1/2	1,570.74	1/2	1,214.03	1/2	870.10	1/2	513.21	1/2	156.09	1/2		1/2		1/2		1/2	
3/4	1,919.18	3/4	1,563.33	3/4	1,206.86	3/4	862.68	3/4	505.77	3/4	148.65	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/03/2013 CL
CALCULATED: 04/03/2013 CL
PRINTED: 04/03/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2013

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



BARGE "KIRBY 29114"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 3/4"

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
							4,389.16		4,147.55		3,900.29		3,641.02		3,369.99		3,017.47		2,659.78		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,384.50	1/4	4,142.52	1/4	3,895.01	1/4	3,635.49	1/4	3,364.26	1/4	3,010.02	1/4	2,652.33		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,379.85	1/2	4,137.48	1/2	3,889.72	1/2	3,629.96	1/2	3,358.54	1/2	3,002.57	1/2	2,644.88		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,375.19	3/4	4,132.45	3/4	3,884.43	3/4	3,624.43	3/4	3,352.81	3/4	2,995.12	3/4	2,637.43		
1	1	1	1	1	1	1	4,371.02	1	4,127.40	1	3,879.13	1	3,618.87	1	3,345.36	1	2,987.66	1	2,629.97		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,366.84	1/4	4,122.35	1/4	3,873.83	1/4	3,613.32	1/4	3,337.90	1/4	2,980.21	1/4	2,622.52		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,362.67	1/2	4,117.30	1/2	3,868.53	1/2	3,607.76	1/2	3,330.45	1/2	2,972.76	1/2	2,615.07		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,358.49	3/4	4,112.25	3/4	3,863.23	3/4	3,602.21	3/4	3,323.00	3/4	2,965.31	3/4	2,607.62		
2	2	2	2	2	2	2	4,353.11	2	4,107.18	2	3,857.91	2	3,596.63	2	3,315.55	2	2,957.86	2	2,600.17		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,347.73	1/4	4,102.11	1/4	3,852.58	1/4	3,591.06	1/4	3,308.10	1/4	2,950.40	1/4	2,592.71		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,342.35	1/2	4,097.03	1/2	3,847.26	1/2	3,585.49	1/2	3,300.64	1/2	2,942.95	1/2	2,585.26		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,336.97	3/4	4,091.96	3/4	3,841.94	3/4	3,579.91	3/4	3,293.19	3/4	2,935.50	3/4	2,577.81		
3	3	3	3	3	3	3	4,331.25	3	4,086.87	3	3,836.60	3	3,574.32	3	3,285.74	3	2,928.05	3	2,570.36		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,325.52	1/4	4,081.78	1/4	3,831.25	1/4	3,568.73	1/4	3,278.29	1/4	2,920.60	1/4	2,562.91		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,319.79	1/2	4,076.68	1/2	3,825.91	1/2	3,563.14	1/2	3,270.84	1/2	2,913.15	1/2	2,555.45		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,314.07	3/4	4,071.59	3/4	3,820.57	3/4	3,557.55	3/4	3,263.38	3/4	2,905.69	3/4	2,548.00		
4	4	4	4	4	4	4	4,308.34	4	4,066.48	4	3,815.20	4	3,551.93	4	3,255.93	4	2,898.24	4	2,540.55		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,302.61	1/4	4,061.36	1/4	3,809.84	1/4	3,546.32	1/4	3,248.48	1/4	2,890.79	1/4	2,533.10		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,296.88	1/2	4,056.25	1/2	3,804.48	1/2	3,540.70	1/2	3,241.03	1/2	2,883.34	1/2	2,525.65		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,291.16	3/4	4,051.13	3/4	3,799.11	3/4	3,535.09	3/4	3,233.58	3/4	2,875.89	3/4	2,518.19		
5	5	5	5	5	5	5	4,286.27	5	4,046.00	5	3,793.73	5	3,529.45	5	3,226.13	5	2,868.43	5	2,510.74		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,281.38	1/4	4,040.86	1/4	3,788.34	1/4	3,523.82	1/4	3,218.67	1/4	2,860.98	1/4	2,503.29		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,276.50	1/2	4,035.73	1/2	3,782.96	1/2	3,518.18	1/2	3,211.22	1/2	2,853.53	1/2	2,495.84		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,271.61	3/4	4,030.60	3/4	3,777.57	3/4	3,512.55	3/4	3,203.77	3/4	2,846.08	3/4	2,488.39		
6	6	6	6	6	6	6	4,266.70	6	4,025.44	6	3,772.16	6	3,506.89	6	3,196.32	6	2,838.63	6	2,480.94		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,261.80	1/4	4,020.28	1/4	3,766.76	1/4	3,501.24	1/4	3,188.87	1/4	2,831.17	1/4	2,473.48		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,256.89	1/2	4,015.12	1/2	3,761.35	1/2	3,495.58	1/2	3,181.41	1/2	2,823.72	1/2	2,466.03		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,251.99	3/4	4,009.97	3/4	3,755.95	3/4	3,489.92	3/4	3,173.96	3/4	2,816.27	3/4	2,458.58		
7	7	7	7	7	7	7	4,247.06	7	4,004.79	7	3,750.52	7	3,484.25	7	3,166.51	7	2,808.82	7	2,451.13		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,242.13	1/4	3,999.61	1/4	3,745.09	1/4	3,478.57	1/4	3,159.06	1/4	2,801.37	1/4	2,443.68		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,237.20	1/2	3,994.44	1/2	3,739.66	1/2	3,472.89	1/2	3,151.61	1/2	2,793.91	1/2	2,436.22		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,232.27	3/4	3,989.26	3/4	3,734.24	3/4	3,467.22	3/4	3,144.15	3/4	2,786.46	3/4	2,428.77		
8	8	8	8	8	8	8	4,227.32	8	3,984.06	8	3,728.79	8	3,461.52	8	3,136.70	8	2,779.01	8	2,421.32		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,222.38	1/4	3,978.86	1/4	3,723.34	1/4	3,455.82	1/4	3,129.25	1/4	2,771.56	1/4	2,413.87		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,217.43	1/2	3,973.66	1/2	3,717.90	1/2	3,450.12	1/2	3,121.80	1/2	2,764.11	1/2	2,406.42		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,212.48	3/4	3,968.46	3/4	3,712.45	3/4	3,444.42	3/4	3,114.35	3/4	2,756.66	3/4	2,398.96		
9	9	9	9	9	9	9	4,207.51	9	3,963.24	9	3,706.98	9	3,438.70	9	3,106.89	9	2,749.20	9	2,391.51		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,202.54	1/4	3,958.03	1/4	3,701.51	1/4	3,432.99	1/4	3,099.44	1/4	2,741.75	1/4	2,384.06		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,197.57	1/2	3,952.81	1/2	3,696.04	1/2	3,427.27	1/2	3,091.99	1/2	2,734.30	1/2	2,376.61		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,192.59	3/4	3,947.59	3/4	3,690.57	3/4	3,421.55	3/4	3,084.54	3/4	2,726.85	3/4	2,369.16		
10	10	10	10	10	10	10	4,187.60	10	3,942.35	10	3,685.08	10	3,415.82	10	3,077.09	10	2,719.40	10	2,361.70		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,182.62	1/4	3,937.10	1/4	3,679.59	1/4	3,410.09	1/4	3,069.64	1/4	2,711.94	1/4	2,354.25		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,177.63	1/2	3,931.86	1/2	3,674.10	1/2	3,404.36	1/2	3,062.18	1/2	2,704.49	1/2	2,346.80		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,172.64	3/4	3,926.62	3/4	3,668.61	3/4	3,398.64	3/4	3,054.73	3/4	2,697.04	3/4	2,339.35		
11	11	11	11	11	11	11	4,167.62	11	3,921.36	11	3,663.10	11	3,392.91	11	3,047.28	11	2,689.59	11	2,331.90		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,162.61	1/4	3,916.10	1/4	3,657.58	1/4	3,387.18	1/4	3,039.83	1/4	2,682.14	1/4	2,324.45		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,157.59	1/2	3,910.84	1/2	3,652.07	1/2	3,381.45	1/2	3,032.38	1/2	2,674.68	1/2	2,316.99		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,152.58	3/4	3,905.58	3/4	3,646.56	3/4	3,375.72	3/4	3,024.92	3/4	2,667.23	3/4	2,309.54		

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.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

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BARGE "KIRBY 29114"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 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	2,302.09	0	1,944.40	0	1,586.71	0	1,229.02	0	871.58	0	514.02	0	156.34	0		0		0	
1/4	2,294.64	1/4	1,936.95	1/4	1,579.26	1/4	1,221.56	1/4	864.14	1/4	506.57	1/4	148.89	1/4	1/4	1/4		1/4	
1/2	2,287.19	1/2	1,929.49	1/2	1,571.80	1/2	1,214.11	1/2	856.70	1/2	499.12	1/2	141.44	1/2	1/2	1/2		1/2	
3/4	2,279.73	3/4	1,922.04	3/4	1,564.35	3/4	1,206.66	3/4	849.26	3/4	491.67	3/4	133.99	3/4	3/4	3/4		3/4	
1	2,272.28	1	1,914.59	1	1,556.90	1	1,199.21	1	841.82	1	484.22	1	126.54	1	1	1		1	
1/4	2,264.83	1/4	1,907.14	1/4	1,549.45	1/4	1,191.76	1/4	834.38	1/4	476.77	1/4	119.09	1/4	1/4	1/4		1/4	
1/2	2,257.38	1/2	1,899.69	1/2	1,542.00	1/2	1,184.30	1/2	826.94	1/2	469.31	1/2	111.63	1/2	1/2	1/2		1/2	
3/4	2,249.93	3/4	1,892.24	3/4	1,534.54	3/4	1,176.85	3/4	819.50	3/4	461.86	3/4	104.18	3/4	3/4	3/4		3/4	
2	2,242.47	2	1,884.78	2	1,527.09	2	1,169.40	2	812.06	2	454.41	2	97.05	2	2	2		2	
1/4	2,235.02	1/4	1,877.33	1/4	1,519.64	1/4	1,161.95	1/4	804.62	1/4	446.96	1/4	89.91	1/4	1/4	1/4		1/4	
1/2	2,227.57	1/2	1,869.88	1/2	1,512.19	1/2	1,154.50	1/2	797.18	1/2	439.51	1/2	82.77	1/2	1/2	1/2		1/2	
3/4	2,220.12	3/4	1,862.43	3/4	1,504.74	3/4	1,147.04	3/4	789.74	3/4	432.06	3/4	75.64	3/4	3/4	3/4		3/4	
3	2,212.67	3	1,854.98	3	1,497.28	3	1,139.59	3	782.29	3	424.60	3	69.44	3	3	3		3	
1/4	2,205.21	1/4	1,847.52	1/4	1,489.83	1/4	1,132.14	1/4	774.83	1/4	417.15	1/4	63.24	1/4	1/4	1/4		1/4	
1/2	2,197.76	1/2	1,840.07	1/2	1,482.38	1/2	1,124.69	1/2	767.38	1/2	409.70	1/2	57.05	1/2	1/2	1/2		1/2	
3/4	2,190.31	3/4	1,832.62	3/4	1,474.93	3/4	1,117.24	3/4	759.93	3/4	402.25	3/4	50.85	3/4	3/4	3/4		3/4	
4	2,182.86	4	1,825.17	4	1,467.48	4	1,109.79	4	752.48	4	394.80	4	45.91	4	4	4		4	
1/4	2,175.41	1/4	1,817.72	1/4	1,460.02	1/4	1,102.33	1/4	745.03	1/4	387.35	1/4	40.97	1/4	1/4	1/4		1/4	
1/2	2,167.96	1/2	1,810.26	1/2	1,452.57	1/2	1,094.88	1/2	737.58	1/2	379.89	1/2	36.03	1/2	1/2	1/2		1/2	
3/4	2,160.50	3/4	1,802.81	3/4	1,445.12	3/4	1,087.43	3/4	730.12	3/4	372.44	3/4	31.09	3/4	3/4	3/4		3/4	
5	2,153.05	5	1,795.36	5	1,437.67	5	1,079.98	5	722.67	5	364.99	5	27.42	5	5	5		5	
1/4	2,145.60	1/4	1,787.91	1/4	1,430.22	1/4	1,072.53	1/4	715.22	1/4	357.54	1/4	23.74	1/4	1/4	1/4		1/4	
1/2	2,138.15	1/2	1,780.46	1/2	1,422.77	1/2	1,065.07	1/2	707.77	1/2	350.09	1/2	20.07	1/2	1/2	1/2		1/2	
3/4	2,130.70	3/4	1,773.00	3/4	1,415.31	3/4	1,057.62	3/4	700.32	3/4	342.64	3/4	16.40	3/4	3/4	3/4		3/4	
6	2,123.24	6	1,765.55	6	1,407.86	6	1,050.17	6	692.87	6	335.18	6		6	6	6		6	
1/4	2,115.79	1/4	1,758.10	1/4	1,400.41	1/4	1,042.72	1/4	685.41	1/4	327.73	1/4		1/4	1/4	1/4		1/4	
1/2	2,108.34	1/2	1,750.65	1/2	1,392.96	1/2	1,035.27	1/2	677.96	1/2	320.28	1/2		1/2	1/2	1/2		1/2	
3/4	2,100.89	3/4	1,743.20	3/4	1,385.51	3/4	1,027.81	3/4	670.51	3/4	312.83	3/4		3/4	3/4	3/4		3/4	
7	2,093.44	7	1,735.75	7	1,378.05	7	1,020.37	7	663.06	7	305.38	7		7	7	7		7	
1/4	2,085.98	1/4	1,728.29	1/4	1,370.60	1/4	1,012.93	1/4	655.61	1/4	297.93	1/4		1/4	1/4	1/4		1/4	
1/2	2,078.53	1/2	1,720.84	1/2	1,363.15	1/2	1,005.49	1/2	648.16	1/2	290.47	1/2		1/2	1/2	1/2		1/2	
3/4	2,071.08	3/4	1,713.39	3/4	1,355.70	3/4	998.05	3/4	640.70	3/4	283.02	3/4		3/4	3/4	3/4		3/4	
8	2,063.63	8	1,705.94	8	1,348.25	8	990.62	8	633.25	8	275.57	8		8	8	8		8	
1/4	2,056.18	1/4	1,698.49	1/4	1,340.79	1/4	983.18	1/4	625.80	1/4	268.12	1/4		1/4	1/4	1/4		1/4	
1/2	2,048.72	1/2	1,691.03	1/2	1,333.34	1/2	975.74	1/2	618.35	1/2	260.67	1/2		1/2	1/2	1/2		1/2	
3/4	2,041.27	3/4	1,683.58	3/4	1,325.89	3/4	968.30	3/4	610.90	3/4	253.22	3/4		3/4	3/4	3/4		3/4	
9	2,033.82	9	1,676.13	9	1,318.44	9	960.86	9	603.45	9	245.76	9		9	9	9		9	
1/4	2,026.37	1/4	1,668.68	1/4	1,310.99	1/4	953.42	1/4	595.99	1/4	238.31	1/4		1/4	1/4	1/4		1/4	
1/2	2,018.92	1/2	1,661.23	1/2	1,303.53	1/2	945.98	1/2	588.54	1/2	230.86	1/2		1/2	1/2	1/2		1/2	
3/4	2,011.47	3/4	1,653.77	3/4	1,296.08	3/4	938.54	3/4	581.09	3/4	223.41	3/4		3/4	3/4	3/4		3/4	
10	2,004.01	10	1,646.32	10	1,288.63	10	931.10	10	573.64	10	215.96	10		10	10	10		10	
1/4	1,996.56	1/4	1,638.87	1/4	1,281.18	1/4	923.66	1/4	566.19	1/4	208.51	1/4		1/4	1/4	1/4		1/4	
1/2	1,989.11	1/2	1,631.42	1/2	1,273.73	1/2	916.22	1/2	558.74	1/2	201.05	1/2		1/2	1/2	1/2		1/2	
3/4	1,981.66	3/4	1,623.97	3/4	1,266.28	3/4	908.78	3/4	551.28	3/4	193.60	3/4		3/4	3/4	3/4		3/4	
11	1,974.21	11	1,616.51	11	1,258.82	11	901.34	11	543.83	11	186.15	11		11	11	11		11	
1/4	1,966.75	1/4	1,609.06	1/4	1,251.37	1/4	893.90	1/4	536.38	1/4	178.70	1/4		1/4	1/4	1/4		1/4	
1/2	1,959.30	1/2	1,601.61	1/2	1,243.92	1/2	886.46	1/2	528.93	1/2	171.25	1/2		1/2	1/2	1/2		1/2	
3/4	1,951.85	3/4	1,594.16	3/4	1,236.47	3/4	879.02	3/4	521.48	3/4	163.79	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/03/2013 CL
CALCULATED: 04/03/2013 CL
PRINTED: 04/03/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2013

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