



BARGE "KIRBY 28115"

ULLAGE TRIM TABLE

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 1 PORT IS - 00-7/8"
FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 3'-11 1/8"

LENGTH BETWEEN DRAFT MARKS: 241'-09"

August 20, 2009

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

<http://www.pmacorp.net>



1 PORT

ULLAGE TABLE

[illegible]

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.
GAUGE POINT: (HERMETIC) LOCATED 12'-08" OFF CENTERLINE AND 53'-00" FORWARD OF AFT BULKHEAD.

SHEET NO. 1 OF 12

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



BARGE "KIRBY 28115"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0	2,340.54	0	1,974.22	0	1,607.89	0	1,242.20	0	878.14	0	512.01	0	168.13	0		0		0	
1/4	2,332.91	1/4	1,966.59	1/4	1,600.25	1/4	1,234.57	1/4	870.55	1/4	504.40	1/4	161.52	1/4		1/4		1/4	
1/2	2,325.28	1/2	1,958.96	1/2	1,592.62	1/2	1,226.94	1/2	862.96	1/2	496.79	1/2	154.90	1/2		1/2		1/2	
3/4	2,317.65	3/4	1,951.33	3/4	1,584.99	3/4	1,219.30	3/4	855.37	3/4	489.18	3/4	148.29	3/4		3/4		3/4	
1	2,310.02	1	1,943.69	1	1,577.36	1	1,211.67	1	847.78	1	481.57	1	141.68	1		1		1	
1/4	2,302.38	1/4	1,936.06	1/4	1,569.73	1/4	1,204.05	1/4	840.16	1/4	474.02	1/4	135.16	1/4		1/4		1/4	
1/2	2,294.75	1/2	1,928.43	1/2	1,562.09	1/2	1,196.44	1/2	832.55	1/2	466.47	1/2	128.64	1/2		1/2		1/2	
3/4	2,287.12	3/4	1,920.80	3/4	1,554.46	3/4	1,188.82	3/4	824.93	3/4	458.92	3/4	122.12	3/4		3/4		3/4	
2	2,279.49	2	1,913.17	2	1,546.83	2	1,181.20	2	817.31	2	451.37	2	115.60	2		2		2	
1/4	2,271.86	1/4	1,905.53	1/4	1,539.20	1/4	1,173.61	1/4	809.68	1/4	443.91	1/4	109.18	1/4		1/4		1/4	
1/2	2,264.23	1/2	1,897.90	1/2	1,531.57	1/2	1,166.02	1/2	802.05	1/2	436.45	1/2	102.76	1/2		1/2		1/2	
3/4	2,256.59	3/4	1,890.27	3/4	1,523.93	3/4	1,158.43	3/4	794.41	3/4	428.99	3/4	96.33	3/4		3/4		3/4	
3	2,248.96	3	1,882.64	3	1,516.30	3	1,150.84	3	786.78	3	421.52	3	89.91	3		3		3	
1/4	2,241.33	1/4	1,875.01	1/4	1,508.67	1/4	1,143.26	1/4	779.15	1/4	414.14	1/4	83.59	1/4		1/4		1/4	
1/2	2,233.70	1/2	1,867.37	1/2	1,501.04	1/2	1,135.68	1/2	771.52	1/2	406.77	1/2	77.27	1/2		1/2		1/2	
3/4	2,226.07	3/4	1,859.74	3/4	1,493.41	3/4	1,128.11	3/4	763.88	3/4	399.39	3/4	70.95	3/4		3/4		3/4	
4	2,218.44	4	1,852.11	4	1,485.77	4	1,120.53	4	756.25	4	392.01	4	64.64	4		4		4	
1/4	2,210.80	1/4	1,844.48	1/4	1,478.16	1/4	1,112.96	1/4	748.62	1/4	384.72	1/4	58.44	1/4		1/4		1/4	
1/2	2,203.17	1/2	1,836.85	1/2	1,470.54	1/2	1,105.38	1/2	740.99	1/2	377.42	1/2	52.24	1/2		1/2		1/2	
3/4	2,195.54	3/4	1,829.21	3/4	1,462.92	3/4	1,097.81	3/4	733.36	3/4	370.13	3/4	46.04	3/4		3/4		3/4	
5	2,187.91	5	1,821.58	5	1,455.30	5	1,090.23	5	725.72	5	362.84	5	39.84	5		5		5	
1/4	2,180.28	1/4	1,813.95	1/4	1,447.70	1/4	1,082.66	1/4	718.09	1/4	355.63	1/4	34.33	1/4		1/4		1/4	
1/2	2,172.65	1/2	1,806.32	1/2	1,440.09	1/2	1,075.08	1/2	710.46	1/2	348.42	1/2	28.83	1/2		1/2		1/2	
3/4	2,165.01	3/4	1,798.69	3/4	1,432.49	3/4	1,067.51	3/4	702.83	3/4	341.21	3/4	23.33	3/4		3/4		3/4	
6	2,157.38	6	1,791.05	6	1,424.88	6	1,059.94	6	695.19	6	334.00	6	17.82	6		6		6	
1/4	2,149.75	1/4	1,783.42	1/4	1,417.28	1/4	1,052.36	1/4	687.56	1/4	326.88	1/4	14.26	1/4		1/4		1/4	
1/2	2,142.12	1/2	1,775.79	1/2	1,409.68	1/2	1,044.79	1/2	679.93	1/2	319.76	1/2	10.70	1/2		1/2		1/2	
3/4	2,134.49	3/4	1,768.16	3/4	1,402.07	3/4	1,037.21	3/4	672.30	3/4	312.63	3/4	7.15	3/4		3/4		3/4	
7	2,126.86	7	1,760.53	7	1,394.47	7	1,029.64	7	664.67	7	305.51	7	3.59	7		7		7	
1/4	2,119.22	1/4	1,752.89	1/4	1,386.86	1/4	1,022.06	1/4	657.03	1/4	298.47	1/4		1/4		1/4		1/4	
1/2	2,111.59	1/2	1,745.26	1/2	1,379.26	1/2	1,014.49	1/2	649.40	1/2	291.43	1/2		1/2		1/2		1/2	
3/4	2,103.96	3/4	1,737.63	3/4	1,371.65	3/4	1,006.92	3/4	641.77	3/4	284.39	3/4		3/4		3/4		3/4	
8	2,096.33	8	1,730.00	8	1,364.05	8	999.34	8	634.14	8	277.35	8		8		8		8	
1/4	2,088.70	1/4	1,722.37	1/4	1,356.44	1/4	991.77	1/4	626.50	1/4	270.40	1/4		1/4		1/4		1/4	
1/2	2,081.07	1/2	1,714.73	1/2	1,348.84	1/2	984.19	1/2	618.87	1/2	263.45	1/2		1/2		1/2		1/2	
3/4	2,073.43	3/4	1,707.10	3/4	1,341.23	3/4	976.62	3/4	611.24	3/4	256.49	3/4		3/4		3/4		3/4	
9	2,065.80	9	1,699.47	9	1,333.63	9	969.04	9	603.61	9	249.54	9		9		9		9	
1/4	2,058.17	1/4	1,691.84	1/4	1,326.02	1/4	961.47	1/4	595.97	1/4	242.67	1/4		1/4		1/4		1/4	
1/2	2,050.54	1/2	1,684.21	1/2	1,318.42	1/2	953.90	1/2	588.34	1/2	235.80	1/2		1/2		1/2		1/2	
3/4	2,042.91	3/4	1,676.57	3/4	1,310.81	3/4	946.32	3/4	580.71	3/4	228.93	3/4		3/4		3/4		3/4	
10	2,035.28	10	1,668.94	10	1,303.21	10	938.75	10	573.07	10	222.06	10		10		10		10	
1/4	2,027.64	1/4	1,661.31	1/4	1,295.59	1/4	931.17	1/4	565.44	1/4	215.28	1/4		1/4		1/4		1/4	
1/2	2,020.01	1/2	1,653.68	1/2	1,287.97	1/2	923.60	1/2	557.81	1/2	208.49	1/2		1/2		1/2		1/2	
3/4	2,012.38	3/4	1,646.05	3/4	1,280.35	3/4	916.02	3/4	550.18	3/4	201.71	3/4		3/4		3/4		3/4	
11	2,004.75	11	1,638.41	11	1,272.73	11	908.45	11	542.54	11	194.92	11		11		11		11	
1/4	1,997.12	1/4	1,630.78	1/4	1,265.10	1/4	900.87	1/4	534.91	1/4	188.22	1/4		1/4		1/4		1/4	
1/2	1,989.49	1/2	1,623.15	1/2	1,257.47	1/2	893.30	1/2	527.28	1/2	181.53	1/2		1/2		1/2		1/2	
3/4	1,981.85	3/4	1,615.52	3/4	1,249.83	3/4	885.72	3/4	519.65	3/4	174.83	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/20/2009 CL - SW
CALCULATED: 08/20/2009 CL
PRINTED: 08/20/2009 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/20/2009

PRECISION MEASUREMENT
& ANALYSIS, INC.

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

BARGE "KIRBY 28115"

1STBD

ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

[illegible]**BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.**

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

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

Gauge Point: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 53'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY

**PRECISION MEASUREMENT
& ANALYSIS, INC.**

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Featuring, Texas 77366
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1



BARGE "KIRBY 28115"

1 STBD
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0	2,349.29	0	1,983.01	0	1,616.71	0	1,251.07	0	885.81	0	519.58	0	174.80	0		0		0	
1/4	2,341.65	1/4	1,975.38	1/4	1,609.08	1/4	1,243.44	1/4	878.21	1/4	511.94	1/4	168.10	1/4		1/4		1/4	
1/2	2,334.02	1/2	1,967.75	1/2	1,601.45	1/2	1,235.81	1/2	870.59	1/2	504.33	1/2	161.49	1/2		1/2		1/2	
3/4	2,326.39	3/4	1,959.82	3/4	1,593.82	3/4	1,228.18	3/4	862.97	3/4	496.72	3/4	154.88	3/4		3/4		3/4	
1	2,318.76	1	1,952.48	1	1,586.19	1	1,220.55	1	855.35	1	489.11	1	148.27	1		1		1	
1/4	2,311.13	1/4	1,944.85	1/4	1,578.56	1/4	1,212.92	1/4	847.73	1/4	481.50	1/4	141.66	1/4		1/4		1/4	
1/2	2,303.50	1/2	1,937.22	1/2	1,570.93	1/2	1,205.28	1/2	840.10	1/2	473.95	1/2	135.14	1/2		1/2		1/2	
3/4	2,295.87	3/4	1,929.59	3/4	1,563.30	3/4	1,197.65	3/4	832.47	3/4	466.41	3/4	128.62	3/4		3/4		3/4	
2	2,288.24	2	1,921.96	2	1,555.67	2	1,190.02	2	824.84	2	458.86	2	122.10	2		2		2	
1/4	2,280.61	1/4	1,914.33	1/4	1,548.03	1/4	1,182.39	1/4	817.21	1/4	451.31	1/4	115.58	1/4		1/4		1/4	
1/2	2,272.98	1/2	1,906.70	1/2	1,540.40	1/2	1,174.77	1/2	809.58	1/2	443.85	1/2	109.16	1/2		1/2		1/2	
3/4	2,265.35	3/4	1,899.07	3/4	1,532.77	3/4	1,167.15	3/4	801.94	3/4	436.39	3/4	102.74	3/4		3/4		3/4	
3	2,257.72	3	1,891.43	3	1,525.14	3	1,159.53	3	794.31	3	428.93	3	96.32	3		3		3	
1/4	2,250.08	1/4	1,883.80	1/4	1,517.51	1/4	1,151.91	1/4	786.68	1/4	421.46	1/4	89.89	1/4		1/4		1/4	
1/2	2,242.45	1/2	1,876.17	1/2	1,509.88	1/2	1,144.31	1/2	779.05	1/2	414.09	1/2	83.58	1/2		1/2		1/2	
3/4	2,234.82	3/4	1,868.54	3/4	1,502.25	3/4	1,136.70	3/4	771.42	3/4	406.71	3/4	77.26	3/4		3/4		3/4	
4	2,227.19	4	1,860.91	4	1,494.62	4	1,129.10	4	763.79	4	399.33	4	70.94	4		4		4	
1/4	2,219.56	1/4	1,853.28	1/4	1,486.99	1/4	1,121.50	1/4	756.16	1/4	391.96	1/4	64.63	1/4		1/4		1/4	
1/2	2,211.93	1/2	1,845.65	1/2	1,479.37	1/2	1,113.89	1/2	748.52	1/2	384.66	1/2	58.43	1/2		1/2		1/2	
3/4	2,204.30	3/4	1,838.02	3/4	1,471.75	3/4	1,106.29	3/4	740.89	3/4	377.37	3/4	52.23	3/4		3/4		3/4	
5	2,196.67	5	1,830.39	5	1,464.13	5	1,098.69	5	733.26	5	370.08	5	46.03	5		5		5	
1/4	2,189.04	1/4	1,822.75	1/4	1,456.52	1/4	1,091.09	1/4	725.63	1/4	362.79	1/4	39.83	1/4		1/4		1/4	
1/2	2,181.41	1/2	1,815.12	1/2	1,448.91	1/2	1,083.48	1/2	718.00	1/2	355.58	1/2	34.33	1/2		1/2		1/2	
3/4	2,173.78	3/4	1,807.49	3/4	1,441.31	3/4	1,075.88	3/4	710.37	3/4	348.37	3/4	28.82	3/4		3/4		3/4	
6	2,166.15	6	1,799.86	6	1,433.71	6	1,068.28	6	702.74	6	341.16	6	23.32	6		6		6	
1/4	2,158.52	1/4	1,792.23	1/4	1,426.10	1/4	1,060.68	1/4	695.10	1/4	333.96	1/4	17.82	1/4		1/4		1/4	
1/2	2,150.88	1/2	1,784.60	1/2	1,418.50	1/2	1,053.07	1/2	687.47	1/2	326.83	1/2	14.26	1/2		1/2		1/2	
3/4	2,143.25	3/4	1,776.97	3/4	1,410.90	3/4	1,045.47	3/4	679.84	3/4	319.71	3/4	10.70	3/4		3/4		3/4	
7	2,135.62	7	1,769.34	7	1,403.29	7	1,037.87	7	672.21	7	312.59	7	7.14	7		7		7	
1/4	2,127.99	1/4	1,761.71	1/4	1,395.69	1/4	1,030.27	1/4	664.58	1/4	305.46	1/4	3.59	1/4		1/4		1/4	
1/2	2,120.36	1/2	1,754.07	1/2	1,388.09	1/2	1,022.66	1/2	656.95	1/2	298.43	1/2		1/2		1/2		1/2	
3/4	2,112.73	3/4	1,746.44	3/4	1,380.48	3/4	1,015.06	3/4	649.32	3/4	291.39	3/4		3/4		3/4		3/4	
8	2,105.10	8	1,738.81	8	1,372.88	8	1,007.46	8	641.68	8	284.35	8		8		8		8	
1/4	2,097.47	1/4	1,731.18	1/4	1,365.27	1/4	999.86	1/4	634.05	1/4	277.31	1/4		1/4		1/4		1/4	
1/2	2,089.84	1/2	1,723.55	1/2	1,357.67	1/2	992.25	1/2	626.42	1/2	270.36	1/2		1/2		1/2		1/2	
3/4	2,082.21	3/4	1,715.92	3/4	1,350.07	3/4	984.65	3/4	618.79	3/4	263.41	3/4		3/4		3/4		3/4	
9	2,074.58	9	1,708.29	9	1,342.46	9	977.05	9	611.16	9	256.45	9		9		9		9	
1/4	2,066.95	1/4	1,700.66	1/4	1,334.86	1/4	969.45	1/4	603.53	1/4	249.50	1/4		1/4		1/4		1/4	
1/2	2,059.31	1/2	1,693.03	1/2	1,327.25	1/2	961.84	1/2	595.89	1/2	242.63	1/2		1/2		1/2		1/2	
3/4	2,051.68	3/4	1,685.39	3/4	1,319.65	3/4	954.24	3/4	588.26	3/4	235.76	3/4		3/4		3/4		3/4	
10	2,044.05	10	1,677.76	10	1,312.04	10	946.64	10	580.63	10	228.90	10		10		10		10	
1/4	2,036.42	1/4	1,670.13	1/4	1,304.44	1/4	939.04	1/4	573.00	1/4	222.03	1/4		1/4		1/4		1/4	
1/2	2,028.79	1/2	1,662.50	1/2	1,296.82	1/2	931.43	1/2	565.37	1/2	215.24	1/2		1/2		1/2		1/2	
3/4	2,021.16	3/4	1,654.87	3/4	1,289.21	3/4	923.83	3/4	557.73	3/4	208.46	3/4		3/4		3/4		3/4	
11	2,013.53	11	1,647.24	11	1,281.59	11	916.23	11	550.10	11	201.68	11		11		11		11	
1/4	2,005.90	1/4	1,639.61	1/4	1,273.97	1/4	908.63	1/4	542.47	1/4	194.89	1/4		1/4		1/4		1/4	
1/2	1,998.27	1/2	1,631.98	1/2	1,266.34	1/2	901.02	1/2	534.84	1/2	188.20	1/2		1/2		1/2		1/2	
3/4	1,990.64	3/4	1,624.35	3/4	1,258.71	3/4	893.42	3/4	527.21	3/4	181.50	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/20/2009 CL - SW
CALCULATED: 08/20/2009 CL
PRINTED: 08/20/2009 CL
CANCELS AND SUPERCEDES
ALL PRIOR TO 08/20/2009

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2082
Pearland, Texas 77588
http://www.pmacorp.net

Paul J. Mac



BARGE "KIRBY 28115"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

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

GAUGE POINT: (HERMETIC) LOCATED 12'-08" OFF CENTERLINE AND 52'-08" 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 28115"

2 PORT
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
0	2,353.55	0	1,989.44	0	1,625.32	0	1,265.09	0	915.64	0	553.63	0	189.48	0					
1/4	2,345.96	1/4	1,981.85	1/4	1,617.74	1/4	1,257.50	1/4	908.37	1/4	546.04	1/4	181.90	1/4				1/4	
1/2	2,338.38	1/2	1,974.27	1/2	1,610.15	1/2	1,250.07	1/2	901.09	1/2	538.45	1/2	174.32	1/2				1/2	
3/4	2,330.79	3/4	1,966.68	3/4	1,602.57	3/4	1,242.63	3/4	893.80	3/4	530.87	3/4	166.75	3/4				3/4	
1	2,323.20	1	1,959.09	1	1,594.98	1	1,235.19	1	886.52	1	523.28	1	159.17	1				1	
1/4	2,315.62	1/4	1,951.51	1/4	1,587.39	1/4	1,227.76	1/4	879.24	1/4	515.69	1/4	151.59	1/4				1/4	
1/2	2,308.03	1/2	1,943.92	1/2	1,579.81	1/2	1,220.49	1/2	871.80	1/2	508.11	1/2	144.03	1/2				1/2	
3/4	2,300.45	3/4	1,936.34	3/4	1,572.22	3/4	1,213.22	3/4	864.37	3/4	500.52	3/4	136.46	3/4				3/4	
2	2,292.86	2	1,928.75	2	1,564.64	2	1,205.94	2	856.93	2	492.94	2	128.90	2				2	
1/4	2,285.28	1/4	1,921.17	1/4	1,557.05	1/4	1,198.67	1/4	849.50	1/4	485.35	1/4	121.33	1/4				1/4	
1/2	2,277.69	1/2	1,913.58	1/2	1,549.55	1/2	1,191.41	1/2	841.91	1/2	477.76	1/2	113.79	1/2				1/2	
3/4	2,270.11	3/4	1,905.99	3/4	1,542.04	3/4	1,184.16	3/4	834.32	3/4	470.18	3/4	106.24	3/4				3/4	
3	2,262.52	3	1,898.41	3	1,534.54	3	1,176.90	3	826.74	3	462.59	3	98.70	3				3	
1/4	2,254.93	1/4	1,890.82	1/4	1,527.03	1/4	1,169.64	1/4	819.15	1/4	455.00	1/4	91.15	1/4				1/4	
1/2	2,247.35	1/2	1,883.24	1/2	1,519.61	1/2	1,162.39	1/2	811.57	1/2	447.42	1/2	83.64	1/2				1/2	
3/4	2,239.76	3/4	1,875.65	3/4	1,512.19	3/4	1,155.13	3/4	803.98	3/4	439.83	3/4	76.13	3/4				3/4	
4	2,232.18	4	1,868.07	4	1,504.76	4	1,147.88	4	796.39	4	432.24	4	68.62	4				4	
1/4	2,224.59	1/4	1,860.48	1/4	1,497.34	1/4	1,140.62	1/4	788.81	1/4	424.66	1/4	61.11	1/4				1/4	
1/2	2,217.01	1/2	1,852.89	1/2	1,489.92	1/2	1,133.36	1/2	781.22	1/2	417.07	1/2	54.20	1/2				1/2	
3/4	2,209.42	3/4	1,845.31	3/4	1,482.49	3/4	1,126.11	3/4	773.63	3/4	409.48	3/4	47.30	3/4				3/4	
5	2,201.84	5	1,837.72	5	1,475.07	5	1,118.85	5	766.05	5	401.90	5	40.39	5				5	
1/4	2,194.25	1/4	1,830.14	1/4	1,467.64	1/4	1,111.60	1/4	758.46	1/4	394.31	1/4	33.49	1/4				1/4	
1/2	2,186.67	1/2	1,822.55	1/2	1,460.22	1/2	1,104.34	1/2	750.88	1/2	386.72	1/2	28.43	1/2				1/2	
3/4	2,179.08	3/4	1,814.97	3/4	1,452.80	3/4	1,097.09	3/4	743.29	3/4	379.14	3/4	23.38	3/4				3/4	
6	2,171.49	6	1,807.38	6	1,445.37	6	1,089.83	6	735.70	6	371.55	6	18.32	6				6	
1/4	2,163.91	1/4	1,799.79	1/4	1,437.95	1/4	1,082.58	1/4	728.12	1/4	363.96	1/4	13.27	1/4				1/4	
1/2	2,156.32	1/2	1,792.21	1/2	1,430.53	1/2	1,075.32	1/2	720.53	1/2	356.38	1/2		1/2				1/2	
3/4	2,148.74	3/4	1,784.62	3/4	1,423.10	3/4	1,068.07	3/4	712.94	3/4	348.79	3/4		3/4				3/4	
7	2,141.15	7	1,777.04	7	1,415.68	7	1,060.81	7	705.36	7	341.21	7		7				7	
1/4	2,133.57	1/4	1,769.45	1/4	1,408.26	1/4	1,053.55	1/4	697.77	1/4	333.62	1/4		1/4				1/4	
1/2	2,125.98	1/2	1,761.87	1/2	1,400.83	1/2	1,046.30	1/2	690.19	1/2	326.03	1/2		1/2				1/2	
3/4	2,118.40	3/4	1,754.28	3/4	1,393.41	3/4	1,039.04	3/4	682.60	3/4	318.45	3/4		3/4				3/4	
8	2,110.81	8	1,746.69	8	1,385.98	8	1,031.79	8	675.01	8	310.86	8		8				8	
1/4	2,103.22	1/4	1,739.11	1/4	1,378.56	1/4	1,024.53	1/4	667.42	1/4	303.27	1/4		1/4				1/4	
1/2	2,095.64	1/2	1,731.52	1/2	1,371.05	1/2	1,017.28	1/2	659.84	1/2	295.69	1/2		1/2				1/2	
3/4	2,088.05	3/4	1,723.94	3/4	1,363.55	3/4	1,010.02	3/4	652.25	3/4	288.10	3/4		3/4				3/4	
9	2,080.47	9	1,716.35	9	1,356.04	9	1,002.77	9	644.67	9	280.51	9		9				9	
1/4	2,072.88	1/4	1,708.77	1/4	1,348.54	1/4	995.51	1/4	637.08	1/4	272.93	1/4		1/4				1/4	
1/2	2,065.30	1/2	1,701.18	1/2	1,340.95	1/2	988.26	1/2	629.49	1/2	265.34	1/2		1/2				1/2	
3/4	2,057.71	3/4	1,693.59	3/4	1,333.37	3/4	981.00	3/4	621.91	3/4	257.75	3/4		3/4				3/4	
10	2,050.13	10	1,686.01	10	1,325.78	10	973.75	10	614.32	10	250.17	10		10				10	
1/4	2,042.54	1/4	1,678.42	1/4	1,318.19	1/4	966.49	1/4	606.73	1/4	242.58	1/4		1/4				1/4	
1/2	2,034.95	1/2	1,670.84	1/2	1,310.61	1/2	959.23	1/2	599.15	1/2	234.99	1/2		1/2				1/2	
3/4	2,027.37	3/4	1,663.25	3/4	1,303.02	3/4	951.98	3/4	591.56	3/4	227.41	3/4		3/4				3/4	
11	2,019.78	11	1,655.67	11	1,295.43	11	944.72	11	583.97	11	219.82	11		11				11	
1/4	2,012.19	1/4	1,648.08	1/4	1,287.85	1/4	937.46	1/4	576.39	1/4	212.24	1/4		1/4				1/4	
1/2	2,004.61	1/2	1,640.49	1/2	1,280.26	1/2	930.19	1/2	568.80	1/2	204.65	1/2		1/2				1/2	
3/4	1,997.02	3/4	1,632.91	3/4	1,272.67	3/4	922.92	3/4	561.21	3/4	197.07	3/4		3/4				3/4	

STRAPPED: 08/20/2009 CL - SW
CALCULATED: 08/20/2009 CL
PRINTED: 08/20/2009 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2009

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

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

P. J. Jarama



BARGE "KIRBY 28115"

2 STBD

ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

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

GAUGE POINT: (HERMETIC) LOCATED 12'-08" OFF CENTERLINE AND 52'-48" 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>

Signature



BARGE "KIRBY 28115"

2 STBD
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
0	2,368.39	0	2,004.42	0	1,640.43	0	1,280.32	0	917.43	0	553.43	0	189.42	0	0	0	0	0	0
1/4	2,360.81	1/4	1,996.84	1/4	1,632.85	1/4	1,272.74	1/4	909.86	1/4	545.85	1/4	181.84	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,353.23	1/2	1,989.25	1/2	1,625.26	1/2	1,265.16	1/2	902.27	1/2	538.26	1/2	174.26	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,345.65	3/4	1,981.67	3/4	1,617.68	3/4	1,257.57	3/4	894.69	3/4	530.68	3/4	166.69	3/4	3/4	3/4	3/4	3/4	3/4
1	2,338.06	1	1,974.09	1	1,610.10	1	1,249.99	1	887.11	1	523.10	1	159.11	1	1	1	1	1	1
1/4	2,330.48	1/4	1,966.50	1/4	1,602.52	1/4	1,242.40	1/4	879.52	1/4	515.51	1/4	151.54	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,322.90	1/2	1,958.92	1/2	1,594.93	1/2	1,234.83	1/2	871.94	1/2	507.93	1/2	143.98	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,315.31	3/4	1,951.34	3/4	1,587.35	3/4	1,227.26	3/4	864.36	3/4	500.34	3/4	136.41	3/4	3/4	3/4	3/4	3/4	3/4
2	2,307.73	2	1,943.76	2	1,579.77	2	1,219.69	2	856.77	2	492.76	2	128.85	2	2	2	2	2	2
1/4	2,300.15	1/4	1,936.17	1/4	1,572.18	1/4	1,212.12	1/4	849.19	1/4	485.18	1/4	121.29	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,292.57	1/2	1,928.59	1/2	1,564.68	1/2	1,204.56	1/2	841.61	1/2	477.59	1/2	113.75	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,284.98	3/4	1,921.01	3/4	1,557.18	3/4	1,197.01	3/4	834.02	3/4	470.01	3/4	106.21	3/4	3/4	3/4	3/4	3/4	3/4
3	2,277.40	3	1,913.42	3	1,549.68	3	1,189.45	3	826.44	3	462.42	3	98.66	3	3	3	3	3	3
1/4	2,269.82	1/4	1,905.84	1/4	1,542.17	1/4	1,181.89	1/4	818.86	1/4	454.84	1/4	91.12	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,262.23	1/2	1,898.26	1/2	1,534.75	1/2	1,174.34	1/2	811.27	1/2	447.26	1/2	83.61	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,254.65	3/4	1,890.67	3/4	1,527.33	3/4	1,166.79	3/4	803.69	3/4	439.67	3/4	76.10	3/4	3/4	3/4	3/4	3/4	3/4
4	2,247.07	4	1,883.09	4	1,519.91	4	1,159.23	4	796.11	4	432.09	4	68.59	4	4	4	4	4	4
1/4	2,239.49	1/4	1,875.51	1/4	1,512.49	1/4	1,151.68	1/4	788.52	1/4	424.51	1/4	61.09	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,231.90	1/2	1,867.92	1/2	1,505.07	1/2	1,144.12	1/2	780.94	1/2	416.92	1/2	54.18	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,224.32	3/4	1,860.34	3/4	1,497.65	3/4	1,136.57	3/4	773.36	3/4	409.34	3/4	47.28	3/4	3/4	3/4	3/4	3/4	3/4
5	2,216.74	5	1,852.76	5	1,490.23	5	1,129.01	5	765.77	5	401.75	5	40.38	5	5	5	5	5	5
1/4	2,209.16	1/4	1,845.17	1/4	1,482.81	1/4	1,121.46	1/4	758.19	1/4	394.17	1/4	33.48	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,201.57	1/2	1,837.59	1/2	1,475.39	1/2	1,113.90	1/2	750.61	1/2	386.59	1/2	28.42	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,193.99	3/4	1,830.01	3/4	1,467.97	3/4	1,106.35	3/4	743.02	3/4	379.00	3/4	23.37	3/4	3/4	3/4	3/4	3/4	3/4
6	2,186.41	6	1,822.43	6	1,460.55	6	1,099.20	6	735.44	6	371.44	6	18.32	6	6	6	6	6	6
1/4	2,178.82	1/4	1,814.84	1/4	1,453.12	1/4	1,091.24	1/4	727.86	1/4	363.84	1/4	13.26	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,171.24	1/2	1,807.26	1/2	1,445.70	1/2	1,083.69	1/2	720.27	1/2	356.25	1/2	11.11	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,163.66	3/4	1,799.68	3/4	1,438.28	3/4	1,076.13	3/4	712.69	3/4	348.67	3/4	11.11	3/4	3/4	3/4	3/4	3/4	3/4
7	2,156.08	7	1,792.09	7	1,430.86	7	1,068.58	7	705.11	7	341.08	7	11.11	7	7	7	7	7	7
1/4	2,148.49	1/4	1,784.51	1/4	1,423.44	1/4	1,061.02	1/4	697.52	1/4	333.50	1/4	11.11	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,140.91	1/2	1,776.93	1/2	1,416.02	1/2	1,053.47	1/2	689.94	1/2	325.92	1/2	11.11	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,133.33	3/4	1,769.34	3/4	1,408.60	3/4	1,045.91	3/4	682.36	3/4	318.33	3/4	11.11	3/4	3/4	3/4	3/4	3/4	3/4
8	2,125.74	8	1,761.76	8	1,401.18	8	1,038.36	8	674.77	8	310.75	8	11.11	8	8	8	8	8	8
1/4	2,118.16	1/4	1,754.18	1/4	1,393.75	1/4	1,030.80	1/4	667.19	1/4	303.16	1/4	11.11	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,110.58	1/2	1,746.59	1/2	1,386.25	1/2	1,023.25	1/2	659.60	1/2	295.58	1/2	11.11	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,103.00	3/4	1,739.01	3/4	1,378.75	3/4	1,015.70	3/4	652.02	3/4	288.00	3/4	11.11	3/4	3/4	3/4	3/4	3/4	3/4
9	2,095.41	9	1,731.43	9	1,371.25	9	1,008.14	9	644.44	9	280.41	9	11.11	9	9	9	9	9	9
1/4	2,087.83	1/4	1,723.85	1/4	1,363.74	1/4	1,000.59	1/4	636.85	1/4	272.83	1/4	11.11	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,080.25	1/2	1,716.26	1/2	1,356.16	1/2	993.03	1/2	629.27	1/2	265.25	1/2	11.11	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,072.66	3/4	1,708.68	3/4	1,348.58	3/4	985.48	3/4	621.68	3/4	257.66	3/4	11.11	3/4	3/4	3/4	3/4	3/4	3/4
10	2,065.08	10	1,701.10	10	1,340.99	10	977.92	10	614.10	10	250.08	10	11.11	10	10	10	10	10	10
1/4	2,057.50	1/4	1,693.51	1/4	1,333.41	1/4	970.37	1/4	606.52	1/4	242.49	1/4	11.11	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,049.92	1/2	1,685.93	1/2	1,325.83	1/2	962.81	1/2	598.93	1/2	234.91	1/2	11.11	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,042.33	3/4	1,678.35	3/4	1,318.24	3/4	955.26	3/4	591.35	3/4	227.33	3/4	11.11	3/4	3/4	3/4	3/4	3/4	3/4
11	2,034.75	11	1,670.76	11	1,310.66	11	947.70	11	583.77	11	219.74	11	11.11	11	11	11	11	11	11
1/4	2,027.17	1/4	1,663.18	1/4	1,303.07	1/4	940.14	1/4	576.18	1/4	212.16	1/4	11.11	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,019.59	1/2	1,655.60	1/2	1,295.49	1/2	932.57	1/2	568.60	1/2	204.58	1/2	11.11	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,012.00	3/4	1,648.01	3/4	1,287.91	3/4	925.00	3/4	561.01	3/4	197.00	3/4	11.11	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/20/2009 CL - SW
CALCULATED: 08/20/2009 CL
PRINTED: 08/20/2009 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2009

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

Joe J. J. J.



ULLAGE TABLE

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH IPMMS 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.

Chen



BARGE "KIRBY 28115"

3 PORT
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0	2,266.88	0	1,903.52	0	1,540.33	0	1,181.45	0	828.17	0	470.56	0	109.99	0	0	0	0	0	0
1/4	2,259.31	1/4	1,895.95	1/4	1,532.78	1/4	1,173.89	1/4	820.80	1/4	462.97	1/4	103.66	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,251.74	1/2	1,888.38	1/2	1,525.24	1/2	1,166.34	1/2	813.43	1/2	455.38	1/2	97.34	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,244.17	3/4	1,880.81	3/4	1,517.69	3/4	1,158.89	3/4	806.05	3/4	447.79	3/4	92.28	3/4	3/4	3/4	3/4	3/4	3/4
1	2,236.60	1	1,873.24	1	1,510.14	1	1,151.44	1	798.67	1	440.20	1	87.23	1	1	1	1	1	1
1/4	2,229.03	1/4	1,865.67	1/4	1,502.60	1/4	1,143.99	1/4	791.29	1/4	432.61	1/4	82.18	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,221.46	1/2	1,858.10	1/2	1,495.05	1/2	1,136.54	1/2	783.91	1/2	425.01	1/2	77.12	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,213.89	3/4	1,850.53	3/4	1,487.50	3/4	1,129.20	3/4	776.53	3/4	417.42	3/4	73.34	3/4	3/4	3/4	3/4	3/4	3/4
2	2,206.32	2	1,842.96	2	1,479.96	2	1,121.86	2	769.15	2	409.83	2	69.57	2	2	2	2	2	2
1/4	2,198.75	1/4	1,835.39	1/4	1,472.41	1/4	1,114.52	1/4	761.77	1/4	402.24	1/4	65.79	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,191.18	1/2	1,827.81	1/2	1,464.86	1/2	1,107.17	1/2	754.39	1/2	394.65	1/2	62.01	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,183.61	3/4	1,820.24	3/4	1,457.40	3/4	1,099.84	3/4	747.01	3/4	387.06	3/4	59.51	3/4	3/4	3/4	3/4	3/4	3/4
3	2,176.04	3	1,812.67	3	1,449.93	3	1,092.50	3	739.63	3	379.47	3	57.02	3	3	3	3	3	3
1/4	2,168.47	1/4	1,805.10	1/4	1,442.47	1/4	1,085.17	1/4	732.25	1/4	371.88	1/4	54.53	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,160.90	1/2	1,797.53	1/2	1,435.00	1/2	1,077.83	1/2	724.87	1/2	364.29	1/2	52.03	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,153.33	3/4	1,789.96	3/4	1,427.60	3/4	1,070.50	3/4	717.49	3/4	356.69	3/4	50.83	3/4	3/4	3/4	3/4	3/4	3/4
4	2,145.76	4	1,782.39	4	1,420.21	4	1,063.17	4	710.11	4	349.10	4	49.64	4	4	4	4	4	4
1/4	2,138.19	1/4	1,774.82	1/4	1,412.81	1/4	1,055.83	1/4	702.72	1/4	341.51	1/4	48.44	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,130.62	1/2	1,767.25	1/2	1,405.41	1/2	1,048.50	1/2	695.34	1/2	333.92	1/2	47.24	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,123.05	3/4	1,759.68	3/4	1,398.00	3/4	1,041.17	3/4	687.96	3/4	326.33	3/4	46.04	3/4	3/4	3/4	3/4	3/4	3/4
5	2,115.48	5	1,752.11	5	1,390.59	5	1,033.83	5	680.58	5	318.74	5	44.84	5	5	5	5	5	5
1/4	2,107.91	1/4	1,744.54	1/4	1,383.18	1/4	1,026.50	1/4	673.20	1/4	311.15	1/4	43.64	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,100.34	1/2	1,736.97	1/2	1,375.77	1/2	1,019.17	1/2	665.82	1/2	303.56	1/2	42.44	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,092.77	3/4	1,729.40	3/4	1,368.37	3/4	1,011.83	3/4	658.44	3/4	295.97	3/4	41.24	3/4	3/4	3/4	3/4	3/4	3/4
6	2,085.20	6	1,721.83	6	1,360.96	6	1,004.50	6	651.06	6	288.37	6	40.04	6	6	6	6	6	6
1/4	2,077.63	1/4	1,714.26	1/4	1,353.55	1/4	997.17	1/4	643.68	1/4	280.78	1/4	38.84	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,070.06	1/2	1,706.69	1/2	1,346.14	1/2	989.83	1/2	636.30	1/2	273.19	1/2	37.64	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,062.49	3/4	1,699.12	3/4	1,338.73	3/4	982.50	3/4	628.92	3/4	265.60	3/4	36.44	3/4	3/4	3/4	3/4	3/4	3/4
7	2,054.92	7	1,691.55	7	1,331.32	7	975.17	7	621.54	7	258.01	7	35.24	7	7	7	7	7	7
1/4	2,047.35	1/4	1,683.98	1/4	1,323.91	1/4	967.83	1/4	614.16	1/4	250.42	1/4	34.04	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,039.78	1/2	1,676.41	1/2	1,316.50	1/2	960.50	1/2	606.78	1/2	242.83	1/2	32.84	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,032.21	3/4	1,668.84	3/4	1,309.10	3/4	953.16	3/4	599.29	3/4	235.24	3/4	31.64	3/4	3/4	3/4	3/4	3/4	3/4
8	2,024.64	8	1,661.27	8	1,301.70	8	945.81	8	591.81	8	227.65	8	30.44	8	8	8	8	8	8
1/4	2,017.07	1/4	1,653.70	1/4	1,294.30	1/4	938.47	1/4	584.32	1/4	220.05	1/4	29.24	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,009.50	1/2	1,646.13	1/2	1,286.89	1/2	931.13	1/2	576.84	1/2	212.46	1/2	28.04	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,001.93	3/4	1,638.56	3/4	1,279.42	3/4	923.78	3/4	569.25	3/4	204.87	3/4	26.84	3/4	3/4	3/4	3/4	3/4	3/4
9	1,994.36	9	1,630.99	9	1,271.95	9	916.43	9	561.65	9	197.28	9	25.64	9	9	9	9	9	9
1/4	1,986.79	1/4	1,623.42	1/4	1,264.47	1/4	909.07	1/4	554.06	1/4	189.69	1/4	24.44	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,979.22	1/2	1,615.85	1/2	1,257.00	1/2	901.72	1/2	546.47	1/2	182.10	1/2	23.24	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,971.65	3/4	1,608.29	3/4	1,249.44	3/4	894.37	3/4	538.88	3/4	174.51	3/4	22.04	3/4	3/4	3/4	3/4	3/4	3/4
10	1,964.08	10	1,600.73	10	1,241.89	10	887.02	10	531.29	10	166.92	10	20.84	10	10	10	10	10	10
1/4	1,956.51	1/4	1,593.17	1/4	1,234.33	1/4	879.67	1/4	523.70	1/4	159.33	1/4	19.64	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,948.94	1/2	1,585.61	1/2	1,226.78	1/2	872.32	1/2	516.11	1/2	151.73	1/2	18.44	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,941.37	3/4	1,578.07	3/4	1,219.22	3/4	864.96	3/4	508.52	3/4	144.46	3/4	17.24	3/4	3/4	3/4	3/4	3/4	3/4
11	1,933.80	11	1,570.52	11	1,211.67	11	857.61	11	500.93	11	137.19	11	16.04	11	11	11	11	11	11
1/4	1,926.23	1/4	1,562.97	1/4	1,204.11	1/4	850.26	1/4	493.33	1/4	129.91	1/4	14.84	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,918.66	1/2	1,555.42	1/2	1,196.56	1/2	842.90	1/2	485.74	1/2	122.64	1/2	13.64	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,911.09	3/4	1,547.88	3/4	1,189.00	3/4	835.53	3/4	478.15	3/4	116.31	3/4	12.44	3/4	3/4	3/4	3/4	3/4	3/4

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Pearland, Texas 77588
<http://www.pmacorp.net>

Paul J. Mac

3 STBD

ULLAGE TABLE

[illegible]

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.**

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9



BARGE "KIRBY 28115"

3 STBD
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
0	2,280.76	0	1,916.26	0	1,551.76	0	1,191.12	0	827.71	0	483.19	0	103.71	0	0	0	0	0	0
1/4	2,273.17	1/4	1,908.67	1/4	1,544.16	1/4	1,183.53	1/4	820.13	1/4	455.59	1/4	97.38	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,265.58	1/2	1,901.08	1/2	1,536.57	1/2	1,175.93	1/2	812.53	1/2	448.00	1/2	92.33	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,257.98	3/4	1,893.48	3/4	1,528.97	3/4	1,168.34	3/4	804.94	3/4	440.41	3/4	87.27	3/4	3/4	3/4	3/4	3/4	3/4
1	2,250.39	1	1,885.89	1	1,521.38	1	1,160.75	1	797.35	1	432.81	1	82.21	1	1	1	1	1	1
1/4	2,242.80	1/4	1,878.29	1/4	1,513.79	1/4	1,153.15	1/4	789.75	1/4	425.22	1/4	77.16	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,235.20	1/2	1,870.70	1/2	1,506.19	1/2	1,145.57	1/2	782.16	1/2	417.62	1/2	73.38	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,227.61	3/4	1,863.11	3/4	1,498.60	3/4	1,137.99	3/4	774.56	3/4	410.03	3/4	69.60	3/4	3/4	3/4	3/4	3/4	3/4
2	2,220.01	2	1,855.51	2	1,491.01	2	1,130.41	2	766.97	2	402.43	2	65.82	2	2	2	2	2	2
1/4	2,212.42	1/4	1,847.92	1/4	1,483.41	1/4	1,122.82	1/4	759.37	1/4	394.84	1/4	62.04	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,204.83	1/2	1,840.32	1/2	1,475.90	1/2	1,115.26	1/2	751.78	1/2	387.24	1/2	59.54	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,197.23	3/4	1,832.73	3/4	1,468.39	3/4	1,107.69	3/4	744.19	3/4	379.65	3/4	57.05	3/4	3/4	3/4	3/4	3/4	3/4
3	2,189.64	3	1,825.14	3	1,460.87	3	1,100.12	3	736.59	3	372.05	3	54.55	3	3	3	3	3	3
1/4	2,182.05	1/4	1,817.54	1/4	1,453.36	1/4	1,092.56	1/4	729.00	1/4	364.46	1/4	52.05	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,174.45	1/2	1,809.95	1/2	1,445.93	1/2	1,084.99	1/2	721.40	1/2	356.86	1/2	50.86	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,166.86	3/4	1,802.36	3/4	1,438.50	3/4	1,077.42	3/4	713.81	3/4	349.27	3/4	49.68	3/4	3/4	3/4	3/4	3/4	3/4
4	2,159.26	4	1,794.76	4	1,431.06	4	1,069.86	4	706.21	4	341.67	4	48.46	4	4	4	4	4	4
1/4	2,151.67	1/4	1,787.17	1/4	1,423.63	1/4	1,062.29	1/4	698.62	1/4	334.08	1/4	47.26	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,144.08	1/2	1,779.57	1/2	1,416.20	1/2	1,054.73	1/2	691.03	1/2	326.48	1/2	46.06	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,136.48	3/4	1,771.98	3/4	1,408.77	3/4	1,047.16	3/4	683.43	3/4	318.89	3/4	44.86	3/4	3/4	3/4	3/4	3/4	3/4
5	2,128.89	5	1,764.39	5	1,401.34	5	1,039.60	5	675.84	5	311.30	5	43.66	5	5	5	5	5	5
1/4	2,121.30	1/4	1,756.79	1/4	1,393.90	1/4	1,032.03	1/4	668.24	1/4	303.70	1/4	42.46	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,113.70	1/2	1,749.20	1/2	1,386.47	1/2	1,024.47	1/2	660.65	1/2	296.11	1/2	41.26	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,106.11	3/4	1,741.60	3/4	1,379.04	3/4	1,016.90	3/4	653.05	3/4	288.51	3/4	40.06	3/4	3/4	3/4	3/4	3/4	3/4
6	2,098.52	6	1,734.01	6	1,371.61	6	1,009.34	6	645.46	6	280.92	6	38.86	6	6	6	6	6	6
1/4	2,090.92	1/4	1,726.42	1/4	1,364.18	1/4	1,001.77	1/4	637.87	1/4	273.32	1/4	37.66	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,083.33	1/2	1,718.82	1/2	1,356.74	1/2	994.20	1/2	630.27	1/2	265.73	1/2	36.46	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,075.73	3/4	1,711.23	3/4	1,349.31	3/4	986.64	3/4	622.68	3/4	258.13	3/4	35.26	3/4	3/4	3/4	3/4	3/4	3/4
7	2,068.14	7	1,703.63	7	1,341.88	7	979.07	7	615.08	7	250.54	7	34.06	7	7	7	7	7	7
1/4	2,060.55	1/4	1,696.04	1/4	1,334.45	1/4	971.51	1/4	607.49	1/4	242.94	1/4	32.86	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,052.95	1/2	1,688.45	1/2	1,327.02	1/2	963.94	1/2	599.89	1/2	235.35	1/2	31.66	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,045.36	3/4	1,680.85	3/4	1,319.58	3/4	956.38	3/4	592.30	3/4	227.75	3/4	30.46	3/4	3/4	3/4	3/4	3/4	3/4
8	2,037.77	8	1,673.26	8	1,312.15	8	948.81	8	584.70	8	220.16	8	29.26	8	8	8	8	8	8
1/4	2,030.17	1/4	1,665.67	1/4	1,304.72	1/4	941.25	1/4	577.11	1/4	212.56	1/4	28.06	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,022.58	1/2	1,658.07	1/2	1,297.20	1/2	933.68	1/2	569.52	1/2	204.97	1/2	26.86	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,014.98	3/4	1,650.48	3/4	1,289.69	3/4	926.12	3/4	561.92	3/4	197.37	3/4	25.66	3/4	3/4	3/4	3/4	3/4	3/4
9	2,007.39	9	1,642.88	9	1,282.18	9	918.55	9	554.33	9	189.78	9	24.46	9	9	9	9	9	9
1/4	1,999.80	1/4	1,635.29	1/4	1,274.66	1/4	910.99	1/4	546.73	1/4	182.19	1/4	23.26	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,992.20	1/2	1,627.70	1/2	1,267.07	1/2	903.42	1/2	539.14	1/2	174.59	1/2	22.06	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,984.61	3/4	1,620.10	3/4	1,259.48	3/4	895.85	3/4	531.54	3/4	167.00	3/4	20.86	3/4	3/4	3/4	3/4	3/4	3/4
10	1,977.02	10	1,612.51	10	1,251.88	10	888.29	10	523.95	10	159.40	10	19.66	10	10	10	10	10	10
1/4	1,969.42	1/4	1,604.91	1/4	1,244.29	1/4	880.72	1/4	516.35	1/4	151.81	1/4	18.46	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,961.83	1/2	1,597.32	1/2	1,236.69	1/2	873.16	1/2	508.76	1/2	144.53	1/2	17.26	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,954.23	3/4	1,589.73	3/4	1,229.10	3/4	865.59	3/4	501.16	3/4	137.25	3/4	16.06	3/4	3/4	3/4	3/4	3/4	3/4
11	1,946.64	11	1,582.13	11	1,221.50	11	858.02	11	493.57	11	129.97	11	14.86	11	11	11	11	11	11
1/4	1,939.05	1/4	1,574.54	1/4	1,213.91	1/4	850.45	1/4	485.97	1/4	122.69	1/4	13.66	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,931.45	1/2	1,566.94	1/2	1,206.31	1/2	842.87	1/2	478.38	1/2	116.37	1/2	12.46	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,923.86	3/4	1,559.35	3/4	1,198.72	3/4	835.29	3/4	470.78	3/4	110.04	3/4	11.26	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/20/2009 CL - SW
CALCULATED: 08/20/2009 CL
PRINTED: 08/20/2009 CL
CANCELS AND SUPERCEDES
ALL PRIOR TO 08/20/2009

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