



BARGE "KIRBY 28136"

ULLAGE TRIM TABLE

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

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

LENGTH BETWEEN DRAFT MARKS: 236'-00"

December 18, 2009

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



BARGE "KIRBY 28136"

1 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		IN		IN		IN		IN		IN		IN		IN		IN		IN			
0		0		0		0	4,219.19	0	3,930.58	0	3,627.74	0	3,310.94	0	2,981.70	0	2,650.11	0	2,318.48		
1/4		1/4		1/4	1/4	1/4	4,213.30	1/4	3,924.44	1/4	3,621.29	1/4	3,304.20	1/4	2,974.80	1/4	2,643.20	1/4	2,311.57		
1/2		1/2		1/2	1/2	1/2	4,207.38	1/2	3,918.28	1/2	3,614.81	1/2	3,297.44	1/2	2,967.89	1/2	2,636.29	1/2	2,304.66		
3/4		3/4		3/4	3/4	3/4	4,201.47	3/4	3,912.12	3/4	3,608.33	3/4	3,290.68	3/4	2,960.98	3/4	2,629.38	3/4	2,297.76		
1		1		1		1	4,195.55	1	3,905.96	1	3,601.85	1	3,283.93	1	2,954.07	1	2,622.47	1	2,290.85		
1/4		1/4		1/4	1/4	1/4	4,189.64	1/4	3,899.80	1/4	3,595.37	1/4	3,277.17	1/4	2,947.16	1/4	2,615.56	1/4	2,283.94		
1/2		1/2		1/2	1/2	1/2	4,183.70	1/2	3,893.62	1/2	3,588.87	1/2	3,270.38	1/2	2,940.25	1/2	2,608.66	1/2	2,277.03		
3/4		3/4		3/4	3/4	3/4	4,177.77	3/4	3,887.43	3/4	3,582.38	3/4	3,263.59	3/4	2,933.35	3/4	2,601.75	3/4	2,270.12		
2		2		2		2	4,171.83	2	3,881.24	2	3,575.88	2	3,256.81	2	2,926.44	2	2,594.84	2	2,263.21		
1/4		1/4		1/4	1/4	1/4	4,165.89	1/4	3,875.06	1/4	3,569.38	1/4	3,250.02	1/4	2,919.53	1/4	2,587.93	1/4	2,256.30		
1/2		1/2		1/2	1/2	1/2	4,159.93	1/2	3,868.85	1/2	3,562.86	1/2	3,243.21	1/2	2,912.62	1/2	2,581.02	1/2	2,249.39		
3/4		3/4		3/4	3/4	3/4	4,153.97	3/4	3,862.64	3/4	3,556.33	3/4	3,236.41	3/4	2,905.71	3/4	2,574.11	3/4	2,242.48		
3		3		3		3	4,148.00	3	3,856.44	3	3,549.81	3	3,229.60	3	2,898.80	3	2,567.21	3	2,235.57		
1/4		1/4		1/4	1/4	1/4	4,142.04	1/4	3,850.23	1/4	3,543.29	1/4	3,222.79	1/4	2,891.90	1/4	2,560.30	1/4	2,228.66		
1/2		1/2		1/2	1/2	1/2	4,136.09	1/2	3,843.97	1/2	3,536.74	1/2	3,215.97	1/2	2,884.99	1/2	2,553.39	1/2	2,221.75		
3/4		3/4		3/4	3/4	3/4	4,130.14	3/4	3,837.70	3/4	3,530.20	3/4	3,209.14	3/4	2,878.08	3/4	2,546.48	3/4	2,214.84		
4		4		4		4	4,124.19	4	3,831.44	4	3,523.65	4	3,202.31	4	2,871.17	4	2,539.57	4	2,207.93		
1/4		1/4		1/4	1/4	1/4	4,118.24	1/4	3,825.18	1/4	3,517.10	1/4	3,195.48	1/4	2,864.26	1/4	2,532.66	1/4	2,201.02		
1/2		1/2		1/2	1/2	1/2	4,112.27	1/2	3,818.89	1/2	3,510.53	1/2	3,188.63	1/2	2,857.35	1/2	2,525.76	1/2	2,194.11		
3/4		3/4		3/4	3/4	3/4	4,106.30	3/4	3,812.60	3/4	3,503.96	3/4	3,181.77	3/4	2,850.45	3/4	2,518.85	3/4	2,187.20		
5		5		5		5	4,100.32	5	3,806.31	5	3,497.39	5	3,174.91	5	2,843.54	5	2,511.94	5	2,180.29		
1/4		1/4		1/4	1/4	1/4	4,094.35	1/4	3,800.02	1/4	3,490.82	1/4	3,168.06	1/4	2,836.63	1/4	2,505.03	1/4	2,173.38		
1/2		1/2		1/2	1/2	1/2	4,088.35	1/2	3,793.71	1/2	3,484.22	1/2	3,161.18	1/2	2,829.72	1/2	2,498.12	1/2	2,166.47		
3/4		3/4		3/4	3/4	3/4	4,082.35	3/4	3,787.40	3/4	3,477.63	3/4	3,154.31	3/4	2,822.81	3/4	2,491.21	3/4	2,159.57		
6		6		6		6	4,076.36	6	3,781.08	6	3,471.03	6	3,147.43	6	2,815.90	6	2,484.31	6	2,152.66		
1/4		1/4		1/4	1/4	1/4	4,070.36	1/4	3,774.77	1/4	3,464.43	1/4	3,140.56	1/4	2,809.00	1/4	2,477.40	1/4	2,145.75		
1/2		1/2		1/2	1/2	1/2	4,362.98	1/2	4,064.34	1/2	3,768.43	1/2	3,457.81	1/2	3,133.66	1/2	2,802.09	1/2	2,470.49	1/2	2,138.84
3/4		3/4		3/4	3/4	3/4	4,357.79	3/4	4,058.32	3/4	3,762.09	3/4	3,451.19	3/4	3,126.76	3/4	2,795.18	3/4	2,463.58	3/4	2,131.93
7		7		7		7	4,352.61	7	4,052.30	7	3,755.75	7	3,444.58	7	3,119.86	7	2,788.27	7	2,456.67	7	2,125.02
1/4		1/4		1/4	1/4	1/4	4,347.42	1/4	4,046.28	1/4	3,749.41	1/4	3,437.96	1/4	3,112.96	1/4	2,781.36	1/4	2,449.76	1/4	2,118.11
1/2		1/2		1/2	1/2	1/2	4,340.51	1/2	4,040.23	1/2	3,743.05	1/2	3,431.32	1/2	3,106.05	1/2	2,774.45	1/2	2,442.85	1/2	2,111.20
3/4		3/4		3/4	3/4	3/4	4,333.61	3/4	4,034.18	3/4	3,736.69	3/4	3,424.68	3/4	3,099.14	3/4	2,767.55	3/4	2,435.95	3/4	2,104.29
8		8		8		8	4,326.70	8	4,028.13	8	3,730.33	8	3,418.04	8	3,092.24	8	2,760.64	8	2,429.04	8	2,097.38
1/4		1/4		1/4	1/4	1/4	4,319.79	1/4	4,022.08	1/4	3,723.97	1/4	3,411.40	1/4	3,085.33	1/4	2,753.73	1/4	2,422.13	1/4	2,090.47
1/2		1/2		1/2	1/2	1/2	4,312.88	1/2	4,016.01	1/2	3,717.59	1/2	3,404.73	1/2	3,078.42	1/2	2,746.82	1/2	2,415.22	1/2	2,083.56
3/4		3/4		3/4	3/4	3/4	4,305.97	3/4	4,009.95	3/4	3,711.21	3/4	3,398.07	3/4	3,071.51	3/4	2,739.91	3/4	2,408.31	3/4	2,076.65
9		9		9		9	4,299.06	9	4,003.88	9	3,704.83	9	3,391.40	9	3,064.60	9	2,733.00	9	2,401.40	9	2,069.74
1/4		1/4		1/4	1/4	1/4	4,292.15	1/4	3,997.81	1/4	3,698.45	1/4	3,384.73	1/4	3,057.69	1/4	2,726.10	1/4	2,394.49	1/4	2,062.83
1/2		1/2		1/2	1/2	1/2	4,285.24	1/2	3,991.72	1/2	3,692.04	1/2	3,378.04	1/2	3,050.79	1/2	2,719.19	1/2	2,387.58	1/2	2,055.92
3/4		3/4		3/4	3/4	3/4	4,278.33	3/4	3,985.63	3/4	3,685.63	3/4	3,371.36	3/4	3,043.88	3/4	2,712.28	3/4	2,380.67	3/4	2,049.01
10		10		10		10	4,271.42	10	3,979.55	10	3,679.22	10	3,364.67	10	3,036.97	10	2,705.37	10	2,373.76	10	2,042.10
1/4		1/4		1/4	1/4	1/4	4,264.51	1/4	3,973.46	1/4	3,672.81	1/4	3,357.98	1/4	3,030.06	1/4	2,698.46	1/4	2,366.85	1/4	2,035.19
1/2		1/2		1/2	1/2	1/2	4,257.60	1/2	3,967.34	1/2	3,666.38	1/2	3,351.27	1/2	3,023.15	1/2	2,691.55	1/2	2,359.94	1/2	2,028.28
3/4		3/4		3/4	3/4	3/4	4,250.69	3/4	3,961.22	3/4	3,659.95	3/4	3,344.56	3/4	3,016.24	3/4	2,684.65	3/4	2,353.03	3/4	2,021.38
11		11		11		11	4,243.78	11	3,955.10	11	3,653.52	11	3,337.85	11	3,009.34	11	2,677.74	11	2,346.12	11	2,014.47
1/4		1/4		1/4	1/4	1/4	4,236.87	1/4	3,948.99	1/4	3,647.09	1/4	3,331.14	1/4	3,002.43	1/4	2,670.83	1/4	2,339.21	1/4	2,007.56
1/2		1/2		1/2	1/2	1/2	4,230.98	1/2	3,942.85	1/2	3,640.64	1/2	3,324.41	1/2	2,995.52	1/2	2,663.92	1/2	2,332.30	1/2	2,000.65
3/4		3/4		3/4	3/4	3/4	4,225.09	3/4	3,936.71	3/4	3,634.19	3/4	3,317.67	3/4	2,988.61	3/4	2,657.01	3/4	2,325.39	3/4	1,993.74

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 37'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
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BARGE "KIRBY 28136"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 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	1,986.83	0	1,655.17	0	1,323.52	0	992.15	0	675.20	0	381.34	0	111.09	0		0			
1/4	1,979.92	1/4	1,648.26	1/4	1,316.61	1/4	985.29	1/4	668.82	1/4	375.46	1/4	105.70	1/4		1/4			
1/2	1,973.01	1/2	1,641.35	1/2	1,309.70	1/2	978.46	1/2	662.48	1/2	369.61	1/2	100.35	1/2		1/2			
3/4	1,966.10	3/4	1,634.44	3/4	1,302.79	3/4	971.63	3/4	656.14	3/4	363.76	3/4	94.99	3/4		3/4			
1	1,959.19	1	1,627.53	1	1,295.88	1	964.80	1	649.81	1	357.92	1	89.64	1		1			
1/4	1,952.28	1/4	1,620.62	1/4	1,288.97	1/4	957.97	1/4	643.47	1/4	352.07	1/4	84.29	1/4		1/4			
1/2	1,945.37	1/2	1,613.71	1/2	1,282.06	1/2	951.20	1/2	637.17	1/2	346.27	1/2	78.98	1/2		1/2			
3/4	1,938.46	3/4	1,606.81	3/4	1,275.15	3/4	944.43	3/4	630.88	3/4	340.46	3/4	73.67	3/4		3/4			
2	1,931.55	2	1,599.90	2	1,268.24	2	937.66	2	624.58	2	334.66	2	68.36	2		2			
1/4	1,924.64	1/4	1,592.99	1/4	1,261.33	1/4	930.89	1/4	618.29	1/4	328.86	1/4	63.05	1/4		1/4			
1/2	1,917.73	1/2	1,586.08	1/2	1,254.42	1/2	924.15	1/2	612.03	1/2	323.09	1/2	57.78	1/2		1/2			
3/4	1,910.82	3/4	1,579.17	3/4	1,247.51	3/4	917.42	3/4	605.77	3/4	317.33	3/4	52.51	3/4		3/4			
3	1,903.91	3	1,572.26	3	1,240.60	3	910.69	3	599.52	3	311.56	3	47.24	3		3			
1/4	1,897.00	1/4	1,565.35	1/4	1,233.69	1/4	903.96	1/4	593.26	1/4	305.80	1/4	41.97	1/4		1/4			
1/2	1,890.09	1/2	1,558.44	1/2	1,226.78	1/2	897.27	1/2	587.05	1/2	300.08	1/2	37.61	1/2		1/2			
3/4	1,883.19	3/4	1,551.53	3/4	1,219.87	3/4	890.58	3/4	580.83	3/4	294.36	3/4	33.25	3/4		3/4			
4	1,876.28	4	1,544.62	4	1,212.96	4	883.89	4	574.62	4	288.64	4	28.89	4		4			
1/4	1,869.37	1/4	1,537.71	1/4	1,206.05	1/4	877.20	1/4	568.41	1/4	282.91	1/4	24.53	1/4		1/4			
1/2	1,862.46	1/2	1,530.80	1/2	1,199.14	1/2	870.55	1/2	562.23	1/2	277.23	1/2	21.93	1/2		1/2			
3/4	1,855.55	3/4	1,523.89	3/4	1,192.24	3/4	863.90	3/4	556.06	3/4	271.55	3/4	19.33	3/4		3/4			
5	1,848.64	5	1,516.98	5	1,185.33	5	857.25	5	549.89	5	265.87	5	16.74	5		5			
1/4	1,841.73	1/4	1,510.07	1/4	1,178.42	1/4	850.60	1/4	543.71	1/4	260.18	1/4	14.14	1/4		1/4			
1/2	1,834.82	1/2	1,503.16	1/2	1,171.51	1/2	843.99	1/2	537.58	1/2	254.54	1/2		1/2		1/2			
3/4	1,827.91	3/4	1,496.25	3/4	1,164.60	3/4	837.38	3/4	531.45	3/4	248.91	3/4		3/4		3/4			
6	1,821.00	6	1,489.34	6	1,157.69	6	830.78	6	525.32	6	243.27	6		6		6			
1/4	1,814.09	1/4	1,482.43	1/4	1,150.78	1/4	824.17	1/4	519.19	1/4	237.63	1/4		1/4		1/4			
1/2	1,807.18	1/2	1,475.52	1/2	1,143.87	1/2	817.60	1/2	513.09	1/2	232.03	1/2		1/2		1/2			
3/4	1,800.27	3/4	1,468.62	3/4	1,136.96	3/4	811.03	3/4	507.00	3/4	226.42	3/4		3/4		3/4			
7	1,793.36	7	1,461.71	7	1,130.05	7	804.46	7	500.91	7	220.82	7		7		7			
1/4	1,786.45	1/4	1,454.80	1/4	1,123.14	1/4	797.90	1/4	494.82	1/4	215.22	1/4		1/4		1/4			
1/2	1,779.54	1/2	1,447.89	1/2	1,116.23	1/2	791.37	1/2	488.77	1/2	209.67	1/2		1/2		1/2			
3/4	1,772.63	3/4	1,440.98	3/4	1,109.32	3/4	784.84	3/4	482.72	3/4	204.11	3/4		3/4		3/4			
8	1,765.72	8	1,434.07	8	1,102.41	8	778.32	8	476.67	8	198.55	8		8		8			
1/4	1,758.81	1/4	1,427.16	1/4	1,095.50	1/4	771.79	1/4	470.62	1/4	193.00	1/4		1/4		1/4			
1/2	1,751.90	1/2	1,420.25	1/2	1,088.59	1/2	765.31	1/2	464.61	1/2	187.48	1/2		1/2		1/2			
3/4	1,745.00	3/4	1,413.34	3/4	1,081.69	3/4	758.82	3/4	458.60	3/4	181.96	3/4		3/4		3/4			
9	1,738.09	9	1,406.43	9	1,074.78	9	752.33	9	452.59	9	176.44	9		9		9			
1/4	1,731.18	1/4	1,399.52	1/4	1,067.87	1/4	745.85	1/4	446.58	1/4	170.92	1/4		1/4		1/4			
1/2	1,724.27	1/2	1,392.61	1/2	1,060.97	1/2	739.39	1/2	440.61	1/2	165.44	1/2		1/2		1/2			
3/4	1,717.36	3/4	1,385.70	3/4	1,054.07	3/4	732.93	3/4	434.64	3/4	159.97	3/4		3/4		3/4			
10	1,710.45	10	1,378.79	10	1,047.17	10	726.47	10	428.68	10	154.49	10		10		10			
1/4	1,703.54	1/4	1,371.88	1/4	1,040.27	1/4	720.01	1/4	422.71	1/4	149.02	1/4		1/4		1/4			
1/2	1,696.63	1/2	1,364.97	1/2	1,033.38	1/2	713.59	1/2	416.78	1/2	143.58	1/2		1/2		1/2			
3/4	1,689.72	3/4	1,358.06	3/4	1,026.50	3/4	707.17	3/4	410.85	3/4	138.14	3/4		3/4		3/4			
11	1,682.81	11	1,351.15	11	1,019.61	11	700.75	11	404.92	11	132.70	11		11		11			
1/4	1,675.90	1/4	1,344.24	1/4	1,012.73	1/4	694.33	1/4	399.00	1/4	127.26	1/4		1/4		1/4			
1/2	1,668.99	1/2	1,337.33	1/2	1,005.87	1/2	687.95	1/2	393.11	1/2	121.87	1/2		1/2		1/2			
3/4	1,662.08	3/4	1,330.43	3/4	999.01	3/4	681.57	3/4	387.23	3/4	116.48	3/4		3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/18/2009 CL - SW
CALCULATED: 12/18/2009 CL
PRINTED: 12/18/2009 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2009

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



BARGE "KIRBY 28136"

1 STBD 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		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0		0		0	4,216.86	0	3,928.29	0	3,625.49	0	3,308.73	0	2,979.54	0	2,647.98	0	2,316.40
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,210.97	1/4	3,922.15	1/4	3,619.04	1/4	3,301.99	1/4	2,972.63	1/4	2,641.07	1/4	2,309.50
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,205.06	1/2	3,915.99	1/2	3,612.56	1/2	3,295.23	1/2	2,965.72	1/2	2,634.17	1/2	2,302.59
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,199.14	3/4	3,909.83	3/4	3,606.08	3/4	3,288.48	3/4	2,958.81	3/4	2,627.26	3/4	2,295.68
1		1		1		1	4,193.23	1	3,903.67	1	3,599.61	1	3,281.72	1	2,951.91	1	2,620.35	1	2,288.77
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,187.31	1/4	3,897.52	1/4	3,593.13	1/4	3,274.96	1/4	2,945.00	1/4	2,613.44	1/4	2,281.86
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,181.38	1/2	3,891.33	1/2	3,586.63	1/2	3,268.18	1/2	2,938.09	1/2	2,606.54	1/2	2,274.95
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,175.44	3/4	3,885.15	3/4	3,580.13	3/4	3,261.39	3/4	2,931.19	3/4	2,599.63	3/4	2,268.04
2		2		2		2	4,169.51	2	3,878.96	2	3,573.63	2	3,254.60	2	2,924.28	2	2,592.72	2	2,261.14
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,163.57	1/4	3,872.78	1/4	3,567.13	1/4	3,247.82	1/4	2,917.37	1/4	2,585.82	1/4	2,254.23
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,157.61	1/2	3,866.57	1/2	3,560.61	1/2	3,241.01	1/2	2,910.46	1/2	2,578.91	1/2	2,247.32
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,151.65	3/4	3,860.36	3/4	3,554.09	3/4	3,234.21	3/4	2,903.56	3/4	2,572.00	3/4	2,240.41
3		3		3		3	4,145.69	3	3,854.16	3	3,547.57	3	3,227.40	3	2,896.65	3	2,565.09	3	2,233.50
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,139.72	1/4	3,847.95	1/4	3,541.05	1/4	3,220.60	1/4	2,889.74	1/4	2,558.19	1/4	2,226.59
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,133.77	1/2	3,841.69	1/2	3,534.51	1/2	3,213.77	1/2	2,882.83	1/2	2,551.28	1/2	2,219.68
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,127.82	3/4	3,835.42	3/4	3,527.96	3/4	3,206.94	3/4	2,875.93	3/4	2,544.37	3/4	2,212.77
4		4		4		4	4,121.88	4	3,829.16	4	3,521.41	4	3,200.12	4	2,869.02	4	2,537.46	4	2,205.87
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,115.93	1/4	3,822.90	1/4	3,514.87	1/4	3,193.29	1/4	2,862.11	1/4	2,530.56	1/4	2,198.96
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,109.95	1/2	3,816.61	1/2	3,508.30	1/2	3,186.43	1/2	2,855.20	1/2	2,523.65	1/2	2,192.05
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,103.98	3/4	3,810.32	3/4	3,501.73	3/4	3,179.58	3/4	2,848.30	3/4	2,516.74	3/4	2,185.14
5		5		5		5	4,098.01	5	3,804.03	5	3,495.16	5	3,172.72	5	2,841.39	5	2,509.83	5	2,178.23
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,092.04	1/4	3,797.75	1/4	3,488.59	1/4	3,165.87	1/4	2,834.48	1/4	2,502.93	1/4	2,171.32
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,086.04	1/2	3,791.43	1/2	3,481.99	1/2	3,158.99	1/2	2,827.57	1/2	2,496.02	1/2	2,164.41
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,080.04	3/4	3,785.12	3/4	3,475.40	3/4	3,152.12	3/4	2,820.67	3/4	2,489.11	3/4	2,157.51
6		6		6		6	4,074.05	6	3,778.81	6	3,468.80	6	3,145.24	6	2,813.76	6	2,482.20	6	2,150.60
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,068.05	1/4	3,772.50	1/4	3,462.20	1/4	3,138.37	1/4	2,806.85	1/4	2,475.30	1/4	2,143.69
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,062.03	1/2	3,766.16	1/2	3,455.58	1/2	3,131.47	1/2	2,799.94	1/2	2,468.39	1/2	2,136.78
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,355.45	3/4	4,056.01	3/4	3,759.82	3/4	3,448.97	3/4	3,124.57	3/4	2,793.04	3/4	2,461.48
7		7		7		7	4,350.26	7	4,049.99	7	3,753.48	7	3,442.35	7	3,117.68	7	2,786.13	7	2,454.57
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,345.08	1/4	4,043.97	1/4	3,747.14	1/4	3,435.73	1/4	3,110.78	1/4	2,779.22	1/4	2,447.67
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,338.17	1/2	4,037.92	1/2	3,740.79	1/2	3,429.09	1/2	3,103.87	1/2	2,772.32	1/2	2,440.76
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,331.26	3/4	4,031.88	3/4	3,734.43	3/4	3,422.46	3/4	3,096.96	3/4	2,765.41	3/4	2,433.85
8		8		8		8	4,324.36	8	4,025.83	8	3,728.07	8	3,415.82	8	3,090.06	8	2,758.50	8	2,426.94
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,317.45	1/4	4,019.78	1/4	3,721.71	1/4	3,409.18	1/4	3,083.15	1/4	2,751.59	1/4	2,420.03
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,310.54	1/2	4,013.71	1/2	3,715.33	1/2	3,402.51	1/2	3,076.24	1/2	2,744.69	1/2	2,413.12
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,303.63	3/4	4,007.65	3/4	3,708.95	3/4	3,395.85	3/4	3,069.33	3/4	2,737.78	3/4	2,406.22
9		9		9		9	4,296.72	9	4,001.58	9	3,702.57	9	3,389.18	9	3,062.43	9	2,730.87	9	2,399.31
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,289.81	1/4	3,995.51	1/4	3,696.19	1/4	3,382.51	1/4	3,055.52	1/4	2,723.96	1/4	2,392.40
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,282.90	1/2	3,989.43	1/2	3,689.78	1/2	3,375.83	1/2	3,048.61	1/2	2,717.06	1/2	2,385.49
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,276.00	3/4	3,983.34	3/4	3,683.37	3/4	3,369.14	3/4	3,041.70	3/4	2,710.15	3/4	2,378.58
10		10		10		10	4,269.09	10	3,977.25	10	3,676.96	10	3,362.45	10	3,034.80	10	2,703.24	10	2,371.67
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,262.18	1/4	3,971.16	1/4	3,670.55	1/4	3,355.77	1/4	3,027.89	1/4	2,696.33	1/4	2,364.76
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,255.27	1/2	3,965.04	1/2	3,664.13	1/2	3,349.06	1/2	3,020.98	1/2	2,689.43	1/2	2,357.86
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,248.36	3/4	3,958.93	3/4	3,657.70	3/4	3,342.35	3/4	3,014.07	3/4	2,682.52	3/4	2,350.95
11		11		11		11	4,241.45	11	3,952.81	11	3,651.27	11	3,335.64	11	3,007.17	11	2,675.61	11	2,344.04
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,234.54	1/4	3,946.70	1/4	3,644.84	1/4	3,328.93	1/4	3,000.26	1/4	2,668.70	1/4	2,337.13
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,228.65	1/2	3,940.56	1/2	3,638.39	1/2	3,322.20	1/2	2,993.35	1/2	2,661.80	1/2	2,330.22
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,222.76	3/4	3,934.42	3/4	3,631.94	3/4	3,315.46	3/4	2,986.44	3/4	2,654.89	3/4	2,323.31

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 37'-06" FORWARD OF AFT BULKHEAD.

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



BARGE "KIRBY 28136"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 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	1,984.79	0	1,653.18	0	1,321.57	0	990.33	0	675.10	0	381.28	0	111.07	0		0			
1/4	1,977.88	1/4	1,646.27	1/4	1,314.66	1/4	983.50	1/4	668.72	1/4	375.40	1/4	105.68	1/4		1/4			
1/2	1,970.97	1/2	1,639.36	1/2	1,307.75	1/2	976.71	1/2	662.38	1/2	369.55	1/2	100.33	1/2		1/2			
3/4	1,964.07	3/4	1,632.45	3/4	1,300.84	3/4	969.92	3/4	656.05	3/4	363.71	3/4	94.98	3/4		3/4			
1	1,957.16	1	1,625.54	1	1,293.93	1	963.12	1	649.71	1	357.86	1	89.62	1		1			
1/4	1,950.25	1/4	1,618.64	1/4	1,287.02	1/4	956.33	1/4	643.37	1/4	352.02	1/4	84.27	1/4		1/4			
1/2	1,943.34	1/2	1,611.73	1/2	1,280.11	1/2	949.60	1/2	637.08	1/2	346.21	1/2	78.97	1/2		1/2			
3/4	1,936.43	3/4	1,604.82	3/4	1,273.21	3/4	942.87	3/4	630.78	3/4	340.41	3/4	73.66	3/4		3/4			
2	1,929.52	2	1,597.91	2	1,266.30	2	936.14	2	624.49	2	334.61	2	68.35	2		2			
1/4	1,922.61	1/4	1,591.00	1/4	1,259.39	1/4	929.40	1/4	618.19	1/4	328.81	1/4	63.04	1/4		1/4			
1/2	1,915.71	1/2	1,584.09	1/2	1,252.48	1/2	922.71	1/2	611.94	1/2	323.04	1/2	57.77	1/2		1/2			
3/4	1,908.80	3/4	1,577.18	3/4	1,245.57	3/4	916.02	3/4	605.68	3/4	317.28	3/4	52.50	3/4		3/4			
3	1,901.89	3	1,570.28	3	1,238.66	3	909.33	3	599.43	3	311.52	3	47.24	3		3			
1/4	1,894.98	1/4	1,563.37	1/4	1,231.75	1/4	902.64	1/4	593.17	1/4	305.75	1/4	41.97	1/4		1/4			
1/2	1,888.07	1/2	1,556.46	1/2	1,224.85	1/2	895.99	1/2	586.96	1/2	300.03	1/2	37.60	1/2		1/2			
3/4	1,881.16	3/4	1,549.55	3/4	1,217.94	3/4	889.34	3/4	580.75	3/4	294.31	3/4	33.24	3/4		3/4			
4	1,874.25	4	1,542.64	4	1,211.03	4	882.68	4	574.53	4	288.59	4	28.88	4		4			
1/4	1,867.34	1/4	1,535.73	1/4	1,204.12	1/4	876.03	1/4	568.32	1/4	282.87	1/4	24.52	1/4		1/4			
1/2	1,860.44	1/2	1,528.82	1/2	1,197.21	1/2	869.42	1/2	562.15	1/2	277.19	1/2	21.93	1/2		1/2			
3/4	1,853.53	3/4	1,521.91	3/4	1,190.30	3/4	862.81	3/4	555.98	3/4	271.51	3/4	19.33	3/4		3/4			
5	1,846.62	5	1,515.01	5	1,183.39	5	856.20	5	549.80	5	265.83	5	16.74	5		5			
1/4	1,839.71	1/4	1,508.10	1/4	1,176.48	1/4	849.59	1/4	543.63	1/4	260.14	1/4	14.14	1/4		1/4			
1/2	1,832.80	1/2	1,501.19	1/2	1,169.58	1/2	843.03	1/2	537.50	1/2	254.51	1/2		1/2		1/2			
3/4	1,825.89	3/4	1,494.28	3/4	1,162.67	3/4	836.46	3/4	531.37	3/4	248.87	3/4		3/4		3/4			
6	1,818.98	6	1,487.37	6	1,155.76	6	829.89	6	525.24	6	243.23	6		6		6			
1/4	1,812.08	1/4	1,480.46	1/4	1,148.85	1/4	823.32	1/4	519.11	1/4	237.59	1/4		1/4		1/4			
1/2	1,805.17	1/2	1,473.55	1/2	1,141.94	1/2	816.79	1/2	513.02	1/2	231.99	1/2		1/2		1/2			
3/4	1,798.26	3/4	1,466.65	3/4	1,135.03	3/4	810.26	3/4	506.93	3/4	226.39	3/4		3/4		3/4			
7	1,791.35	7	1,459.74	7	1,128.12	7	803.74	7	500.83	7	220.79	7		7		7			
1/4	1,784.44	1/4	1,452.83	1/4	1,121.22	1/4	797.21	1/4	494.74	1/4	215.19	1/4		1/4		1/4			
1/2	1,777.53	1/2	1,445.92	1/2	1,114.31	1/2	790.72	1/2	488.69	1/2	209.63	1/2		1/2		1/2			
3/4	1,770.62	3/4	1,439.01	3/4	1,107.40	3/4	784.23	3/4	482.65	3/4	204.08	3/4		3/4		3/4			
8	1,763.72	8	1,432.10	8	1,100.49	8	777.75	8	476.60	8	198.52	8		8		8			
1/4	1,756.81	1/4	1,425.19	1/4	1,093.58	1/4	771.26	1/4	470.55	1/4	192.97	1/4		1/4		1/4			
1/2	1,749.90	1/2	1,418.29	1/2	1,086.67	1/2	764.81	1/2	464.54	1/2	187.45	1/2		1/2		1/2			
3/4	1,742.99	3/4	1,411.38	3/4	1,079.77	3/4	758.37	3/4	458.53	3/4	181.93	3/4		3/4		3/4			
9	1,736.08	9	1,404.47	9	1,072.86	9	751.92	9	452.52	9	176.41	9		9		9			
1/4	1,729.17	1/4	1,397.56	1/4	1,065.95	1/4	745.47	1/4	446.51	1/4	170.89	1/4		1/4		1/4			
1/2	1,722.26	1/2	1,390.65	1/2	1,059.05	1/2	739.05	1/2	440.55	1/2	165.42	1/2		1/2		1/2			
3/4	1,715.36	3/4	1,383.74	3/4	1,052.15	3/4	732.63	3/4	434.58	3/4	159.94	3/4		3/4		3/4			
10	1,708.45	10	1,376.83	10	1,045.25	10	726.21	10	428.61	10	154.47	10		10		10			
1/4	1,701.54	1/4	1,369.93	1/4	1,038.35	1/4	719.78	1/4	422.65	1/4	149.00	1/4		1/4		1/4			
1/2	1,694.63	1/2	1,363.02	1/2	1,031.47	1/2	713.39	1/2	416.72	1/2	143.56	1/2		1/2		1/2			
3/4	1,687.72	3/4	1,356.11	3/4	1,024.59	3/4	707.01	3/4	410.79	3/4	138.12	3/4		3/4		3/4			
11	1,680.81	11	1,349.20	11	1,017.70	11	700.62	11	404.86	11	132.68	11		11		11			
1/4	1,673.90	1/4	1,342.29	1/4	1,010.82	1/4	694.23	1/4	398.94	1/4	127.24	1/4		1/4		1/4			
1/2	1,667.00	1/2	1,335.38	1/2	1,003.99	1/2	687.85	1/2	393.05	1/2	121.85	1/2		1/2		1/2			
3/4	1,660.09	3/4	1,328.47	3/4	997.16	3/4	681.47	3/4	387.17	3/4	116.46	3/4		3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/18/2009 CL - SW
CALCULATED: 12/18/2009 CL
PRINTED: 12/18/2009 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2009

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





BARGE "KIRBY 28136"

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 44'-04" FORWARD OF AFT BULKHEAD.

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



BARGE "KIRBY 28136"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 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	2,497.54	0	2,109.33	0	1,721.13	0	1,332.92	0	944.72	0	557.38	0	169.59	0		0			
1/4	2,489.45	1/4	2,101.25	1/4	1,713.04	1/4	1,324.84	1/4	936.63	1/4	549.30	1/4	161.51	1/4		1/4			
1/2	2,481.36	1/2	2,093.16	1/2	1,704.95	1/2	1,316.75	1/2	928.54	1/2	541.22	1/2	153.43	1/2		1/2			
3/4	2,473.28	3/4	2,085.07	3/4	1,696.87	3/4	1,308.66	3/4	920.46	3/4	533.14	3/4	145.35	3/4		3/4			
1	2,465.19	1	2,076.98	1	1,688.78	1	1,300.57	1	912.37	1	525.06	1	137.28	1		1			
1/4	2,457.10	1/4	2,068.90	1/4	1,680.69	1/4	1,292.49	1/4	904.28	1/4	516.98	1/4	129.20	1/4		1/4			
1/2	2,449.01	1/2	2,060.81	1/2	1,672.60	1/2	1,284.40	1/2	896.21	1/2	508.90	1/2	121.12	1/2		1/2			
3/4	2,440.92	3/4	2,052.72	3/4	1,664.52	3/4	1,276.31	3/4	888.13	3/4	500.83	3/4	113.04	3/4		3/4			
2	2,432.84	2	2,044.63	2	1,656.43	2	1,268.22	2	880.05	2	492.75	2	104.96	2		2			
1/4	2,424.75	1/4	2,036.54	1/4	1,648.34	1/4	1,260.14	1/4	871.98	1/4	484.67	1/4	96.88	1/4		1/4			
1/2	2,416.66	1/2	2,028.46	1/2	1,640.25	1/2	1,252.05	1/2	863.92	1/2	476.59	1/2	88.80	1/2		1/2			
3/4	2,408.57	3/4	2,020.37	3/4	1,632.16	3/4	1,243.96	3/4	855.85	3/4	468.51	3/4	80.72	3/4		3/4			
3	2,400.49	3	2,012.28	3	1,624.08	3	1,235.87	3	847.79	3	460.43	3	72.64	3		3			
1/4	2,392.40	1/4	2,004.19	1/4	1,615.99	1/4	1,227.78	1/4	839.73	1/4	452.35	1/4	64.56	1/4		1/4			
1/2	2,384.31	1/2	1,996.11	1/2	1,607.90	1/2	1,219.70	1/2	831.66	1/2	444.27	1/2	57.50	1/2		1/2			
3/4	2,376.22	3/4	1,988.02	3/4	1,599.81	3/4	1,211.61	3/4	823.60	3/4	436.19	3/4	50.43	3/4		3/4			
4	2,368.14	4	1,979.93	4	1,591.73	4	1,203.52	4	815.54	4	428.12	4	43.36	4		4			
1/4	2,360.05	1/4	1,971.84	1/4	1,583.64	1/4	1,195.43	1/4	807.47	1/4	420.04	1/4	36.29	1/4		1/4			
1/2	2,351.96	1/2	1,963.76	1/2	1,575.55	1/2	1,187.35	1/2	799.41	1/2	411.96	1/2	31.24	1/2		1/2			
3/4	2,343.87	3/4	1,955.67	3/4	1,567.46	3/4	1,179.26	3/4	791.35	3/4	403.88	3/4	26.20	3/4		3/4			
5	2,335.79	5	1,947.58	5	1,559.38	5	1,171.17	5	783.29	5	395.80	5	21.15	5		5			
1/4	2,327.70	1/4	1,939.49	1/4	1,551.29	1/4	1,163.08	1/4	775.22	1/4	387.72	1/4	16.10	1/4		1/4			
1/2	2,319.61	1/2	1,931.41	1/2	1,543.20	1/2	1,155.00	1/2	767.16	1/2	379.64	1/2		1/2		1/2			
3/4	2,311.52	3/4	1,923.32	3/4	1,535.11	3/4	1,146.91	3/4	759.10	3/4	371.56	3/4		3/4		3/4			
6	2,303.44	6	1,915.23	6	1,527.03	6	1,138.82	6	751.03	6	363.48	6		6		6			
1/4	2,295.35	1/4	1,907.14	1/4	1,518.94	1/4	1,130.73	1/4	742.97	1/4	355.41	1/4		1/4		1/4			
1/2	2,287.26	1/2	1,899.06	1/2	1,510.85	1/2	1,122.65	1/2	734.91	1/2	347.33	1/2		1/2		1/2			
3/4	2,279.17	3/4	1,890.97	3/4	1,502.76	3/4	1,114.56	3/4	726.84	3/4	339.25	3/4		3/4		3/4			
7	2,271.09	7	1,882.88	7	1,494.68	7	1,106.47	7	718.78	7	331.17	7		7		7			
1/4	2,263.00	1/4	1,874.79	1/4	1,486.59	1/4	1,098.38	1/4	710.72	1/4	323.09	1/4		1/4		1/4			
1/2	2,254.91	1/2	1,866.71	1/2	1,478.50	1/2	1,090.30	1/2	702.65	1/2	315.01	1/2		1/2		1/2			
3/4	2,246.82	3/4	1,858.62	3/4	1,470.41	3/4	1,082.21	3/4	694.59	3/4	306.93	3/4		3/4		3/4			
8	2,238.73	8	1,850.53	8	1,462.33	8	1,074.12	8	686.53	8	298.85	8		8		8			
1/4	2,230.65	1/4	1,842.44	1/4	1,454.24	1/4	1,066.03	1/4	678.46	1/4	290.77	1/4		1/4		1/4			
1/2	2,222.56	1/2	1,834.35	1/2	1,446.15	1/2	1,057.95	1/2	670.40	1/2	282.70	1/2		1/2		1/2			
3/4	2,214.47	3/4	1,826.27	3/4	1,438.06	3/4	1,049.86	3/4	662.34	3/4	274.62	3/4		3/4		3/4			
9	2,206.38	9	1,818.18	9	1,429.97	9	1,041.77	9	654.28	9	266.54	9		9		9			
1/4	2,198.30	1/4	1,810.09	1/4	1,421.89	1/4	1,033.68	1/4	646.21	1/4	258.46	1/4		1/4		1/4			
1/2	2,190.21	1/2	1,802.00	1/2	1,413.80	1/2	1,025.59	1/2	638.14	1/2	250.38	1/2		1/2		1/2			
3/4	2,182.12	3/4	1,793.92	3/4	1,405.71	3/4	1,017.51	3/4	630.07	3/4	242.30	3/4		3/4		3/4			
10	2,174.03	10	1,785.83	10	1,397.62	10	1,009.42	10	622.00	10	234.22	10		10		10			
1/4	2,165.95	1/4	1,777.74	1/4	1,389.54	1/4	1,001.33	1/4	613.93	1/4	226.14	1/4		1/4		1/4			
1/2	2,157.86	1/2	1,769.65	1/2	1,381.45	1/2	993.24	1/2	605.85	1/2	218.06	1/2		1/2		1/2			
3/4	2,149.77	3/4	1,761.57	3/4	1,373.36	3/4	985.16	3/4	597.77	3/4	209.99	3/4		3/4		3/4			
11	2,141.68	11	1,753.48	11	1,365.27	11	977.07	11	589.69	11	201.91	11		11		11			
1/4	2,133.60	1/4	1,745.39	1/4	1,357.19	1/4	968.98	1/4	581.61	1/4	193.83	1/4		1/4		1/4			
1/2	2,125.51	1/2	1,737.30	1/2	1,349.10	1/2	960.89	1/2	573.54	1/2	185.75	1/2		1/2		1/2			
3/4	2,117.42	3/4	1,729.22	3/4	1,341.01	3/4	952.81	3/4	565.46	3/4	177.67	3/4		3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/18/2009 CL - SW
CALCULATED: 12/18/2009 CL
PRINTED: 12/18/2009 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2009

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



BARGE "KIRBY 28136"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	5,089.51	0	4,752.43	0	4,397.90	0	4,026.68	0	3,641.05	0	3,252.84	0	2,864.58
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,082.58	1/4	4,745.25	1/4	4,390.32	1/4	4,018.77	1/4	3,632.97	1/4	3,244.75	1/4	2,856.49
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,075.66	1/2	4,738.07	1/2	4,382.73	1/2	4,010.86	1/2	3,624.88	1/2	3,236.66	1/2	2,848.40
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,068.73	3/4	4,730.89	3/4	4,375.15	3/4	4,002.95	3/4	3,616.79	3/4	3,228.58	3/4	2,840.31
1		1		1		1	5,061.81	1	4,723.71	1	4,367.56	1	3,995.04	1	3,608.70	1	3,220.49	1	2,832.22
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,054.86	1/4	4,716.50	1/4	4,359.96	1/4	3,987.09	1/4	3,600.61	1/4	3,212.40	1/4	2,824.13
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,047.91	1/2	4,709.29	1/2	4,352.35	1/2	3,979.15	1/2	3,592.53	1/2	3,204.31	1/2	2,816.04
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,040.96	3/4	4,702.08	3/4	4,344.74	3/4	3,971.20	3/4	3,584.44	3/4	3,196.22	3/4	2,807.95
2		2		2		2	5,034.00	2	4,694.87	2	4,337.13	2	3,963.25	2	3,576.35	2	3,188.14	2	2,799.86
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,027.02	1/4	4,687.63	1/4	4,329.49	1/4	3,955.29	1/4	3,568.26	1/4	3,180.05	1/4	2,791.77
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,020.04	1/2	4,680.40	1/2	4,321.86	1/2	3,947.32	1/2	3,560.17	1/2	3,171.96	1/2	2,783.68
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,013.06	3/4	4,673.16	3/4	4,314.22	3/4	3,939.35	3/4	3,552.09	3/4	3,163.87	3/4	2,775.59
3		3		3		3	5,006.08	3	4,665.93	3	4,306.59	3	3,931.38	3	3,544.00	3	3,155.78	3	2,767.50
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,999.14	1/4	4,658.59	1/4	4,298.93	1/4	3,923.39	1/4	3,535.91	1/4	3,147.70	1/4	2,759.41
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,992.20	1/2	4,651.26	1/2	4,291.26	1/2	3,915.40	1/2	3,527.82	1/2	3,139.61	1/2	2,751.32
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,985.27	3/4	4,643.93	3/4	4,283.59	3/4	3,907.40	3/4	3,519.74	3/4	3,131.52	3/4	2,743.23
4		4		4		4	4,978.33	4	4,636.60	4	4,275.93	4	3,899.41	4	3,511.65	4	3,123.43	4	2,735.14
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,971.37	1/4	4,629.23	1/4	4,268.24	1/4	3,891.38	1/4	3,503.56	1/4	3,115.35	1/4	2,727.05
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,964.41	1/2	4,621.87	1/2	4,260.55	1/2	3,883.36	1/2	3,495.47	1/2	3,107.26	1/2	2,718.96
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,957.45	3/4	4,614.51	3/4	4,252.86	3/4	3,875.33	3/4	3,487.38	3/4	3,099.17	3/4	2,710.87
5		5		5		5	4,950.48	5	4,607.14	5	4,245.17	5	3,867.30	5	3,479.30	5	3,091.08	5	2,702.78
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,943.49	1/4	4,599.75	1/4	4,237.44	1/4	3,859.25	1/4	3,471.21	1/4	3,082.99	1/4	2,694.69
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,936.50	1/2	4,592.37	1/2	4,229.72	1/2	3,851.20	1/2	3,463.12	1/2	3,074.91	1/2	2,686.60
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,929.51	3/4	4,584.98	3/4	4,221.99	3/4	3,843.16	3/4	3,455.03	3/4	3,066.82	3/4	2,678.51
6		6		6		6	4,922.52	6	4,577.59	6	4,214.27	6	3,835.11	6	3,446.95	6	3,058.73	6	2,670.42
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,915.50	1/4	4,570.17	1/4	4,206.52	1/4	3,827.03	1/4	3,438.86	1/4	3,050.64	1/4	2,662.33
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,258.69	1/2	4,908.48	1/2	4,562.74	1/2	4,198.77	1/2	3,818.96	1/2	3,430.77	1/2	3,042.56
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,252.62	3/4	4,901.46	3/4	4,555.32	3/4	4,191.02	3/4	3,810.88	3/4	3,422.68	3/4	3,034.47
7		7		7		7	5,246.55	7	4,894.44	7	4,547.90	7	4,183.28	7	3,802.81	7	3,414.59	7	3,026.38
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,238.47	1/4	4,887.39	1/4	4,540.45	1/4	4,175.50	1/4	3,794.72	1/4	3,406.51	1/4	3,018.29
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,230.38	1/2	4,880.34	1/2	4,533.01	1/2	4,167.73	1/2	3,786.63	1/2	3,398.42	1/2	3,010.20
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,222.29	3/4	4,873.29	3/4	4,525.56	3/4	4,159.96	3/4	3,778.55	3/4	3,390.33	3/4	3,002.11
8		8		8		8	5,214.20	8	4,866.24	8	4,518.12	8	4,152.19	8	3,770.46	8	3,382.24	8	2,994.02
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,206.11	1/4	4,859.17	1/4	4,510.65	1/4	4,144.38	1/4	3,762.37	1/4	3,374.16	1/4	2,985.93
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,198.02	1/2	4,852.10	1/2	4,503.17	1/2	4,136.57	1/2	3,754.28	1/2	3,366.07	1/2	2,977.84
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,189.93	3/4	4,845.03	3/4	4,495.70	3/4	4,128.77	3/4	3,746.19	3/4	3,357.98	3/4	2,969.75
9		9		9		9	5,181.84	9	4,837.96	9	4,488.23	9	4,120.96	9	3,738.11	9	3,349.89	9	2,961.66
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,173.75	1/4	4,830.86	1/4	4,480.73	1/4	4,113.13	1/4	3,730.02	1/4	3,341.80	1/4	2,953.57
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,165.66	1/2	4,823.76	1/2	4,473.23	1/2	4,105.30	1/2	3,721.93	1/2	3,333.72	1/2	2,945.48
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,157.57	3/4	4,816.66	3/4	4,465.72	3/4	4,097.48	3/4	3,713.84	3/4	3,325.63	3/4	2,937.39
10		10		10		10	5,149.48	10	4,809.57	10	4,458.22	10	4,089.65	10	3,705.76	10	3,317.54	10	2,929.30
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,141.39	1/4	4,802.44	1/4	4,450.69	1/4	4,081.79	1/4	3,697.67	1/4	3,309.45	1/4	2,921.21
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,133.30	1/2	4,795.31	1/2	4,443.16	1/2	4,073.94	1/2	3,689.58	1/2	3,301.37	1/2	2,913.12
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,125.21	3/4	4,788.18	3/4	4,435.64	3/4	4,066.08	3/4	3,681.49	3/4	3,293.28	3/4	2,905.03
11		11		11		11	5,117.12	11	4,781.05	11	4,428.11	11	4,058.23	11	3,673.40	11	3,285.19	11	2,896.94
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,110.21	1/4	4,773.89	1/4	4,420.56	1/4	4,050.34	1/4	3,665.32	1/4	3,277.10	1/4	2,888.85
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,103.31	1/2	4,766.74	1/2	4,413.01	1/2	4,042.46	1/2	3,657.23	1/2	3,269.01	1/2	2,880.76
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,096.41	3/4	4,759.58	3/4	4,405.45	3/4	4,034.57	3/4	3,649.14	3/4	3,260.93	3/4	2,872.67

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 44'-04" FORWARD OF AFT BULKHEAD.

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



BARGE "KIRBY 28136"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,476.27	0	2,087.95	0	1,699.64	0	1,311.32	0	923.62	0	550.37	0	162.10	0		0		0	
1/4	2,468.18	1/4	2,079.86	1/4	1,691.55	1/4	1,303.23	1/4	915.84	1/4	542.28	1/4	154.01	1/4		1/4		1/4	
1/2	2,460.09	1/2	2,071.77	1/2	1,683.46	1/2	1,295.14	1/2	908.05	1/2	534.19	1/2	145.92	1/2		1/2		1/2	
3/4	2,452.00	3/4	2,063.68	3/4	1,675.37	3/4	1,287.05	3/4	900.27	3/4	526.10	3/4	137.83	3/4		3/4		3/4	
1	2,443.91	1	2,055.59	1	1,667.28	1	1,278.96	1	892.49	1	518.01	1	129.74	1		1		1	
1/4	2,435.82	1/4	2,047.50	1/4	1,659.19	1/4	1,270.87	1/4	884.73	1/4	509.93	1/4	121.65	1/4		1/4		1/4	
1/2	2,427.73	1/2	2,039.41	1/2	1,651.10	1/2	1,262.78	1/2	876.96	1/2	501.84	1/2	113.56	1/2		1/2		1/2	
3/4	2,419.64	3/4	2,031.32	3/4	1,643.01	3/4	1,254.69	3/4	869.19	3/4	493.75	3/4	105.48	3/4		3/4		3/4	
2	2,411.55	2	2,023.23	2	1,634.92	2	1,246.60	2	861.43	2	485.66	2	97.39	2		2		2	
1/4	2,403.46	1/4	2,015.14	1/4	1,626.83	1/4	1,238.51	1/4	853.67	1/4	477.57	1/4	89.30	1/4		1/4		1/4	
1/2	2,395.37	1/2	2,007.05	1/2	1,618.74	1/2	1,230.42	1/2	845.92	1/2	469.48	1/2	81.21	1/2		1/2		1/2	
3/4	2,387.28	3/4	1,998.96	3/4	1,610.65	3/4	1,222.33	3/4	838.16	3/4	461.39	3/4	73.12	3/4		3/4		3/4	
3	2,379.19	3	1,990.87	3	1,602.56	3	1,214.24	3	830.40	3	453.30	3	65.03	3		3		3	
1/4	2,371.10	1/4	1,982.78	1/4	1,594.47	1/4	1,206.15	1/4	822.65	1/4	445.21	1/4	57.95	1/4		1/4		1/4	
1/2	2,363.01	1/2	1,974.69	1/2	1,586.38	1/2	1,198.06	1/2	814.89	1/2	437.12	1/2	50.87	1/2		1/2		1/2	
3/4	2,354.92	3/4	1,966.60	3/4	1,578.29	3/4	1,189.97	3/4	807.14	3/4	429.04	3/4	43.79	3/4		3/4		3/4	
4	2,346.83	4	1,958.51	4	1,570.20	4	1,181.88	4	799.38	4	420.95	4	36.71	4		4		4	
1/4	2,338.74	1/4	1,950.42	1/4	1,562.11	1/4	1,173.79	1/4	791.63	1/4	412.86	1/4	31.66	1/4		1/4		1/4	
1/2	2,330.65	1/2	1,942.33	1/2	1,554.02	1/2	1,165.70	1/2	783.87	1/2	404.77	1/2	26.60	1/2		1/2		1/2	
3/4	2,322.56	3/4	1,934.24	3/4	1,545.93	3/4	1,157.61	3/4	776.11	3/4	396.68	3/4	21.55	3/4		3/4		3/4	
5	2,314.47	5	1,926.15	5	1,537.84	5	1,149.52	5	768.36	5	388.59	5	16.49	5		5		5	
1/4	2,306.38	1/4	1,918.06	1/4	1,529.75	1/4	1,141.43	1/4	760.60	1/4	380.50	1/4		1/4		1/4		1/4	
1/2	2,298.29	1/2	1,909.97	1/2	1,521.66	1/2	1,133.34	1/2	752.85	1/2	372.41	1/2		1/2		1/2		1/2	
3/4	2,290.20	3/4	1,901.88	3/4	1,513.57	3/4	1,125.25	3/4	745.09	3/4	364.32	3/4		3/4		3/4		3/4	
6	2,282.11	6	1,893.79	6	1,505.48	6	1,117.16	6	737.34	6	356.23	6		6		6		6	
1/4	2,274.02	1/4	1,885.70	1/4	1,497.39	1/4	1,109.07	1/4	729.58	1/4	348.15	1/4		1/4		1/4		1/4	
1/2	2,265.93	1/2	1,877.61	1/2	1,489.30	1/2	1,100.98	1/2	721.82	1/2	340.06	1/2		1/2		1/2		1/2	
3/4	2,257.84	3/4	1,869.52	3/4	1,481.21	3/4	1,092.89	3/4	714.07	3/4	331.97	3/4		3/4		3/4		3/4	
7	2,249.75	7	1,861.43	7	1,473.12	7	1,084.80	7	706.31	7	323.88	7		7		7		7	
1/4	2,241.66	1/4	1,853.34	1/4	1,465.03	1/4	1,076.71	1/4	698.56	1/4	315.79	1/4		1/4		1/4		1/4	
1/2	2,233.57	1/2	1,845.25	1/2	1,456.94	1/2	1,068.62	1/2	690.80	1/2	307.70	1/2		1/2		1/2		1/2	
3/4	2,225.48	3/4	1,837.16	3/4	1,448.85	3/4	1,060.53	3/4	683.05	3/4	299.61	3/4		3/4		3/4		3/4	
8	2,217.39	8	1,829.07	8	1,440.76	8	1,052.44	8	675.30	8	291.52	8		8		8		8	
1/4	2,209.30	1/4	1,820.99	1/4	1,432.67	1/4	1,044.35	1/4	667.54	1/4	283.43	1/4		1/4		1/4		1/4	
1/2	2,201.21	1/2	1,812.90	1/2	1,424.58	1/2	1,036.26	1/2	659.79	1/2	275.34	1/2		1/2		1/2		1/2	
3/4	2,193.12	3/4	1,804.81	3/4	1,416.49	3/4	1,028.17	3/4	652.04	3/4	267.26	3/4		3/4		3/4		3/4	
9	2,185.03	9	1,796.72	9	1,408.40	9	1,020.08	9	644.28	9	259.17	9		9		9		9	
1/4	2,176.94	1/4	1,788.63	1/4	1,400.31	1/4	1,012.00	1/4	636.52	1/4	251.08	1/4		1/4		1/4		1/4	
1/2	2,168.85	1/2	1,780.54	1/2	1,392.22	1/2	1,003.91	1/2	628.75	1/2	242.99	1/2		1/2		1/2		1/2	
3/4	2,160.76	3/4	1,772.45	3/4	1,384.13	3/4	995.82	3/4	620.99	3/4	234.90	3/4		3/4		3/4		3/4	
10	2,152.67	10	1,764.36	10	1,376.04	10	987.73	10	613.23	10	226.81	10		10		10		10	
1/4	2,144.58	1/4	1,756.27	1/4	1,367.95	1/4	979.64	1/4	605.45	1/4	218.72	1/4		1/4		1/4		1/4	
1/2	2,136.49	1/2	1,748.18	1/2	1,359.86	1/2	971.55	1/2	597.67	1/2	210.63	1/2		1/2		1/2		1/2	
3/4	2,128.40	3/4	1,740.09	3/4	1,351.77	3/4	963.46	3/4	589.89	3/4	202.54	3/4		3/4		3/4		3/4	
11	2,120.31	11	1,732.00	11	1,343.68	11	955.37	11	581.71	11	194.45	11		11		11		11	
1/4	2,112.22	1/4	1,723.91	1/4	1,335.59	1/4	947.28	1/4	573.62	1/4	186.37	1/4		1/4		1/4		1/4	
1/2	2,104.13	1/2	1,715.82	1/2	1,327.50	1/2	939.19	1/2	565.53	1/2	178.28	1/2		1/2		1/2		1/2	
3/4	2,096.04	3/4	1,707.73	3/4	1,319.41	3/4	931.10	3/4	557.44	3/4	170.19	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/18/2009 CL - SW
CALCULATED: 12/18/2009 CL
PRINTED: 12/18/2009 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2009

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



BARGE "KIRBY 28136"

3 PORT 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	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0		0	4,511.05	0	4,255.61	0	3,987.56	0	3,706.97	0	3,414.17	0	3,061.11	0	2,700.08
1/4		1/4		1/4		1/4	4,505.82	1/4	4,250.17	1/4	3,981.84	1/4	3,700.99	1/4	3,407.62	1/4	3,053.59	1/4	2,692.56
1/2		1/2		1/2		1/2	4,500.58	1/2	4,244.73	1/2	3,976.11	1/2	3,695.01	1/2	3,401.08	1/2	3,046.06	1/2	2,685.04
3/4		3/4		3/4		3/4	4,495.35	3/4	4,239.29	3/4	3,970.39	3/4	3,689.04	3/4	3,394.53	3/4	3,038.54	3/4	2,677.52
1		1		1		1	4,490.11	1	4,233.84	1	3,964.64	1	3,683.04	1	3,387.70	1	3,031.02	1	2,670.00
1/4		1/4		1/4		1/4	4,484.86	1/4	4,228.38	1/4	3,958.89	1/4	3,677.04	1/4	3,380.88	1/4	3,023.50	1/4	2,662.47
1/2		1/2		1/2		1/2	4,479.61	1/2	4,222.92	1/2	3,953.15	1/2	3,671.05	1/2	3,374.05	1/2	3,015.98	1/2	2,654.95
3/4		3/4		3/4		3/4	4,474.36	3/4	4,217.46	3/4	3,947.40	3/4	3,665.05	3/4	3,367.23	3/4	3,008.46	3/4	2,647.43
2		2		2		2	4,469.10	2	4,211.98	2	3,941.63	2	3,659.03	2	3,360.13	2	3,000.94	2	2,639.91
1/4		1/4		1/4		1/4	4,463.83	1/4	4,206.50	1/4	3,935.86	1/4	3,653.01	1/4	3,353.02	1/4	2,993.42	1/4	2,632.38
1/2		1/2		1/2		1/2	4,458.56	1/2	4,201.02	1/2	3,930.10	1/2	3,646.98	1/2	3,345.92	1/2	2,985.90	1/2	2,624.86
3/4		3/4		3/4		3/4	4,453.29	3/4	4,195.53	3/4	3,924.33	3/4	3,640.96	3/4	3,338.81	3/4	2,978.38	3/4	2,617.34
3		3		3		3	4,448.00	3	4,190.03	3	3,918.54	3	3,634.92	3	3,331.43	3	2,970.86	3	2,609.82
1/4		1/4		1/4		1/4	4,442.71	1/4	4,184.53	1/4	3,912.76	1/4	3,628.88	1/4	3,324.05	1/4	2,963.34	1/4	2,602.30
1/2		1/2		1/2		1/2	4,437.42	1/2	4,179.03	1/2	3,906.97	1/2	3,622.84	1/2	3,316.67	1/2	2,955.82	1/2	2,594.77
3/4		3/4		3/4		3/4	4,432.13	3/4	4,173.53	3/4	3,901.18	3/4	3,616.81	3/4	3,309.29	3/4	2,948.29	3/4	2,587.25
4		4		4		4	4,426.85	4	4,167.97	4	3,895.38	4	3,610.75	4	3,301.77	4	2,940.77	4	2,579.73
1/4		1/4		1/4		1/4	4,421.58	1/4	4,162.42	1/4	3,889.57	1/4	3,604.69	1/4	3,294.25	1/4	2,933.25	1/4	2,572.21
1/2		1/2		1/2		1/2	4,416.31	1/2	4,156.86	1/2	3,883.76	1/2	3,598.63	1/2	3,286.73	1/2	2,925.73	1/2	2,564.68
3/4		3/4		3/4		3/4	4,411.04	3/4	4,151.30	3/4	3,877.95	3/4	3,592.57	3/4	3,279.21	3/4	2,918.21	3/4	2,557.16
5		5		5		5	4,405.74	5	4,145.72	5	3,872.12	5	3,586.49	5	3,271.69	5	2,910.69	5	2,549.64
1/4		1/4		1/4		1/4	4,400.45	1/4	4,140.14	1/4	3,866.29	1/4	3,580.41	1/4	3,264.17	1/4	2,903.17	1/4	2,542.12
1/2		1/2		1/2		1/2	4,395.16	1/2	4,134.56	1/2	3,860.46	1/2	3,574.32	1/2	3,256.65	1/2	2,895.65	1/2	2,534.60
3/4		3/4		3/4		3/4	4,389.87	3/4	4,128.98	3/4	3,854.63	3/4	3,568.24	3/4	3,249.13	3/4	2,888.13	3/4	2,527.07
6		6		6		6	4,384.55	6	4,123.38	6	3,848.77	6	3,562.14	6	3,241.61	6	2,880.61	6	2,519.55
1/4		1/4		1/4		1/4	4,379.23	1/4	4,117.78	1/4	3,842.92	1/4	3,556.04	1/4	3,234.08	1/4	2,873.09	1/4	2,512.03
1/2		1/2		1/2		1/2	4,373.92	1/2	4,112.18	1/2	3,837.06	1/2	3,549.93	1/2	3,226.56	1/2	2,865.57	1/2	2,504.51
3/4		3/4		3/4		3/4	4,368.60	3/4	4,106.58	3/4	3,831.21	3/4	3,543.83	3/4	3,219.04	3/4	2,858.04	3/4	2,496.98
7		7		7		7	4,363.27	7	4,100.95	7	3,825.34	7	3,537.71	7	3,211.52	7	2,850.52	7	2,489.46
1/4		1/4		1/4	4,623.57	1/4	4,357.93	1/4	4,095.33	1/4	3,819.47	1/4	3,531.59	1/4	3,204.00	1/4	2,843.00	1/4	2,481.94
1/2		1/2		1/2	4,618.97	1/2	4,352.60	1/2	4,089.70	1/2	3,813.59	1/2	3,525.47	1/2	3,196.48	1/2	2,835.48	1/2	2,474.42
3/4		3/4		3/4	4,614.37	3/4	4,347.26	3/4	4,084.07	3/4	3,807.72	3/4	3,519.35	3/4	3,188.96	3/4	2,827.96	3/4	2,466.90
8		8		8	4,608.24	8	4,341.90	8	4,078.43	8	3,801.83	8	3,513.22	8	3,181.44	8	2,820.44	8	2,459.37
1/4		1/4		1/4	4,602.11	1/4	4,336.54	1/4	4,072.79	1/4	3,795.94	1/4	3,507.09	1/4	3,173.92	1/4	2,812.92	1/4	2,451.85
1/2		1/2		1/2	4,595.98	1/2	4,331.18	1/2	4,067.15	1/2	3,790.05	1/2	3,500.96	1/2	3,166.40	1/2	2,805.40	1/2	2,444.33
3/4		3/4		3/4	4,589.85	3/4	4,325.82	3/4	4,061.50	3/4	3,784.16	3/4	3,494.83	3/4	3,158.88	3/4	2,797.87	3/4	2,436.81
9		9		9	4,583.72	9	4,320.45	9	4,055.84	9	3,778.24	9	3,488.70	9	3,151.36	9	2,790.35	9	2,429.29
1/4		1/4		1/4	4,577.59	1/4	4,315.07	1/4	4,050.18	1/4	3,772.33	1/4	3,482.57	1/4	3,143.84	1/4	2,782.83	1/4	2,421.76
1/2		1/2		1/2	4,571.46	1/2	4,309.69	1/2	4,044.52	1/2	3,766.41	1/2	3,476.44	1/2	3,136.31	1/2	2,775.31	1/2	2,414.24
3/4		3/4		3/4	4,565.32	3/4	4,304.32	3/4	4,038.85	3/4	3,760.49	3/4	3,470.31	3/4	3,128.79	3/4	2,767.78	3/4	2,406.72
10		10		10	4,559.19	10	4,298.92	10	4,033.17	10	3,754.56	10	3,464.18	10	3,121.27	10	2,760.26	10	2,399.20
1/4		1/4		1/4	4,553.06	1/4	4,293.52	1/4	4,027.48	1/4	3,748.63	1/4	3,458.05	1/4	3,113.75	1/4	2,752.74	1/4	2,391.67
1/2		1/2		1/2	4,546.93	1/2	4,288.13	1/2	4,021.79	1/2	3,742.69	1/2	3,451.92	1/2	3,106.23	1/2	2,745.22	1/2	2,384.15
3/4		3/4		3/4	4,540.80	3/4	4,282.73	3/4	4,016.11	3/4	3,736.76	3/4	3,445.79	3/4	3,098.71	3/4	2,737.70	3/4	2,376.63
11		11		11	4,534.67	11	4,277.31	11	4,010.40	11	3,730.80	11	3,439.53	11	3,091.19	11	2,730.17	11	2,369.11
1/4		1/4		1/4	4,528.54	1/4	4,271.89	1/4	4,004.70	1/4	3,724.85	1/4	3,433.26	1/4	3,083.67	1/4	2,722.65	1/4	2,361.59
1/2		1/2		1/2	4,522.41	1/2	4,266.47	1/2	3,999.99	1/2	3,718.90	1/2	3,426.99	1/2	3,076.15	1/2	2,715.13	1/2	2,354.06
3/4		3/4		3/4	4,516.28	3/4	4,261.05	3/4	3,993.29	3/4	3,712.94	3/4	3,420.72	3/4	3,068.63	3/4	2,707.61	3/4	2,346.54

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 41'-06" FORWARD OF AFT BULKHEAD.

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



BARGE "KIRBY 28136"

3 PORT 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	2,339.02	0	1,977.95	0	1,616.89	0	1,255.82	0	895.48	0	534.50	0	173.45	0		0			
1/4	2,331.57	1/4	1,970.43	1/4	1,609.37	1/4	1,248.30	1/4	887.98	1/4	526.98	1/4	165.93	1/4		1/4			
1/2	2,323.91	1/2	1,962.91	1/2	1,601.84	1/2	1,240.78	1/2	880.48	1/2	519.46	1/2	158.41	1/2		1/2			
3/4	2,316.45	3/4	1,955.39	3/4	1,594.32	3/4	1,233.26	3/4	872.99	3/4	511.94	3/4	150.88	3/4		3/4			
1	2,308.93	1	1,947.86	1	1,586.80	1	1,225.73	1	865.46	1	504.41	1	143.36	1		1			
1/4	2,301.41	1/4	1,940.34	1/4	1,579.28	1/4	1,218.21	1/4	857.94	1/4	496.89	1/4	135.84	1/4		1/4			
1/2	2,293.89	1/2	1,932.82	1/2	1,571.75	1/2	1,210.69	1/2	850.42	1/2	489.37	1/2	128.32	1/2		1/2			
3/4	2,286.36	3/4	1,925.30	3/4	1,564.23	3/4	1,203.17	3/4	842.90	3/4	481.85	3/4	120.80	3/4		3/4			
2	2,278.84	2	1,917.78	2	1,556.71	2	1,195.64	2	835.38	2	474.33	2	113.27	2		2			
1/4	2,271.32	1/4	1,910.25	1/4	1,549.19	1/4	1,188.12	1/4	827.86	1/4	466.80	1/4	105.75	1/4		1/4			
1/2	2,263.80	1/2	1,902.73	1/2	1,541.67	1/2	1,180.60	1/2	820.33	1/2	459.28	1/2	98.23	1/2		1/2			
3/4	2,256.27	3/4	1,895.21	3/4	1,534.14	3/4	1,173.08	3/4	812.81	3/4	451.76	3/4	90.71	3/4		3/4			
3	2,248.75	3	1,887.69	3	1,526.62	3	1,165.56	3	805.29	3	444.24	3	83.19	3		3			
1/4	2,241.23	1/4	1,880.16	1/4	1,519.10	1/4	1,158.03	1/4	797.77	1/4	436.72	1/4	75.67	1/4		1/4			
1/2	2,233.71	1/2	1,872.64	1/2	1,511.58	1/2	1,150.51	1/2	790.25	1/2	429.19	1/2	68.14	1/2		1/2			
3/4	2,226.19	3/4	1,865.12	3/4	1,504.05	3/4	1,142.99	3/4	782.72	3/4	421.67	3/4	60.62	3/4		3/4			
4	2,218.66	4	1,857.60	4	1,496.53	4	1,135.47	4	775.20	4	414.15	4	54.04	4		4			
1/4	2,211.14	1/4	1,850.08	1/4	1,489.01	1/4	1,127.94	1/4	767.68	1/4	406.63	1/4	47.46	1/4		1/4			
1/2	2,203.62	1/2	1,842.55	1/2	1,481.49	1/2	1,120.42	1/2	760.16	1/2	399.11	1/2	40.87	1/2		1/2			
3/4	2,196.10	3/4	1,835.03	3/4	1,473.97	3/4	1,112.90	3/4	752.64	3/4	391.58	3/4	34.29	3/4		3/4			
5	2,188.57	5	1,827.51	5	1,466.44	5	1,105.40	5	745.11	5	384.06	5	29.59	5		5			
1/4	2,181.05	1/4	1,819.99	1/4	1,458.92	1/4	1,097.91	1/4	737.59	1/4	376.54	1/4	24.89	1/4		1/4			
1/2	2,173.53	1/2	1,812.46	1/2	1,451.40	1/2	1,090.41	1/2	730.07	1/2	369.02	1/2	20.19	1/2		1/2			
3/4	2,166.01	3/4	1,804.94	3/4	1,443.88	3/4	1,082.91	3/4	722.55	3/4	361.50	3/4	15.49	3/4		3/4			
6	2,158.49	6	1,797.42	6	1,436.35	6	1,075.41	6	715.03	6	353.98	6		6		6			
1/4	2,150.96	1/4	1,789.90	1/4	1,428.83	1/4	1,067.92	1/4	707.50	1/4	346.45	1/4		1/4		1/4			
1/2	2,143.44	1/2	1,782.38	1/2	1,421.31	1/2	1,060.42	1/2	699.98	1/2	338.93	1/2		1/2		1/2			
3/4	2,135.92	3/4	1,774.85	3/4	1,413.79	3/4	1,052.92	3/4	692.46	3/4	331.41	3/4		3/4		3/4			
7	2,128.40	7	1,767.33	7	1,406.27	7	1,045.42	7	684.94	7	323.89	7		7		7			
1/4	2,120.87	1/4	1,759.81	1/4	1,398.74	1/4	1,037.93	1/4	677.42	1/4	316.37	1/4		1/4		1/4			
1/2	2,113.35	1/2	1,752.29	1/2	1,391.22	1/2	1,030.43	1/2	669.90	1/2	308.84	1/2		1/2		1/2			
3/4	2,105.83	3/4	1,744.76	3/4	1,383.70	3/4	1,022.93	3/4	662.37	3/4	301.32	3/4		3/4		3/4			
8	2,098.31	8	1,737.24	8	1,376.18	8	1,015.44	8	654.85	8	293.80	8		8		8			
1/4	2,090.79	1/4	1,729.72	1/4	1,368.65	1/4	1,007.94	1/4	647.33	1/4	286.28	1/4		1/4		1/4			
1/2	2,083.26	1/2	1,722.20	1/2	1,361.13	1/2	1,000.44	1/2	639.81	1/2	278.76	1/2		1/2		1/2			
3/4	2,075.74	3/4	1,714.68	3/4	1,353.61	3/4	992.94	3/4	632.29	3/4	271.23	3/4		3/4		3/4			
9	2,068.22	9	1,707.15	9	1,346.09	9	985.45	9	624.76	9	263.71	9		9		9			
1/4	2,060.70	1/4	1,699.63	1/4	1,338.57	1/4	977.95	1/4	617.24	1/4	256.19	1/4		1/4		1/4			
1/2	2,053.18	1/2	1,692.11	1/2	1,331.04	1/2	970.45	1/2	609.72	1/2	248.67	1/2		1/2		1/2			
3/4	2,045.65	3/4	1,684.59	3/4	1,323.52	3/4	962.95	3/4	602.20	3/4	241.15	3/4		3/4		3/4			
10	2,038.13	10	1,677.07	10	1,316.00	10	955.46	10	594.68	10	233.62	10		10		10			
1/4	2,030.61	1/4	1,669.54	1/4	1,308.48	1/4	947.96	1/4	587.15	1/4	226.10	1/4		1/4		1/4			
1/2	2,023.09	1/2	1,662.02	1/2	1,300.96	1/2	940.46	1/2	579.63	1/2	218.58	1/2		1/2		1/2			
3/4	2,015.56	3/4	1,654.50	3/4	1,293.43	3/4	932.96	3/4	572.11	3/4	211.06	3/4		3/4		3/4			
11	2,008.04	11	1,646.98	11	1,285.91	11	925.47	11	564.59	11	203.54	11		11		11			
1/4	2,000.52	1/4	1,639.45	1/4	1,278.39	1/4	917.97	1/4	557.07	1/4	196.02	1/4		1/4		1/4			
1/2	1,993.00	1/2	1,631.93	1/2	1,270.87	1/2	910.47	1/2	549.54	1/2	188.49	1/2		1/2		1/2			
3/4	1,985.48	3/4	1,624.41	3/4	1,263.34	3/4	902.98	3/4	542.02	3/4	180.97	3/4		3/4		3/4			

STRAPPED: 12/18/2009 CL - SW
CALCULATED: 12/18/2009 CL
PRINTED: 12/18/2009 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2009

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 28136"

3 STBD 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		IN		IN		IN		IN		IN		IN		IN		IN		IN			
0		0		0		0	4,478.59	0	4,222.70	0	3,954.04	0	3,672.90	0	3,378.92	0	3,024.35	0	2,663.95		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,473.36	1/4	4,217.26	1/4	3,948.32	1/4	3,666.92	1/4	3,372.37	1/4	3,016.84	1/4	2,656.44		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,468.11	1/2	4,211.80	1/2	3,942.57	1/2	3,660.93	1/2	3,365.55	1/2	3,009.33	1/2	2,648.93		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,462.86	3/4	4,206.34	3/4	3,936.82	3/4	3,654.93	3/4	3,358.72	3/4	3,001.82	3/4	2,641.42		
1		1		1		1	4,457.61	1	4,200.88	1	3,931.07	1	3,648.93	1	3,351.89	1	2,994.32	1	2,633.91		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,452.36	1/4	4,195.42	1/4	3,925.32	1/4	3,642.93	1/4	3,345.07	1/4	2,986.81	1/4	2,626.40		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,447.10	1/2	4,189.94	1/2	3,919.55	1/2	3,636.91	1/2	3,337.96	1/2	2,979.30	1/2	2,618.89		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,441.83	3/4	4,184.46	3/4	3,913.79	3/4	3,630.89	3/4	3,330.86	3/4	2,971.79	3/4	2,611.38		
2		2		2		2	4,436.56	2	4,178.98	2	3,908.02	2	3,624.86	2	3,323.75	2	2,964.28	2	2,603.87		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,431.29	1/4	4,173.49	1/4	3,902.25	1/4	3,618.84	1/4	3,316.65	1/4	2,956.78	1/4	2,596.36		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,426.00	1/2	4,167.99	1/2	3,896.46	1/2	3,612.80	1/2	3,309.27	1/2	2,949.27	1/2	2,588.86		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,420.71	3/4	4,162.49	3/4	3,890.68	3/4	3,606.76	3/4	3,301.89	3/4	2,941.76	3/4	2,581.35		
3		3		3		3	4,415.41	3	4,156.99	3	3,884.89	3	3,600.72	3	3,294.51	3	2,934.25	3	2,573.84		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,410.12	1/4	4,151.49	1/4	3,879.10	1/4	3,594.68	1/4	3,287.12	1/4	2,926.75	1/4	2,566.33		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,404.85	1/2	4,145.93	1/2	3,873.29	1/2	3,588.62	1/2	3,279.62	1/2	2,919.24	1/2	2,558.82		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,399.57	3/4	4,140.37	3/4	3,867.48	3/4	3,582.56	3/4	3,272.11	3/4	2,911.73	3/4	2,551.31		
4		4		4		4	4,394.30	4	4,134.81	4	3,861.67	4	3,576.50	4	3,264.60	4	2,904.22	4	2,543.80		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,389.03	1/4	4,129.25	1/4	3,855.86	1/4	3,570.44	1/4	3,257.09	1/4	2,896.71	1/4	2,536.29		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,383.73	1/2	4,123.67	1/2	3,850.03	1/2	3,564.36	1/2	3,249.59	1/2	2,889.21	1/2	2,528.78		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,378.44	3/4	4,118.09	3/4	3,844.20	3/4	3,558.27	3/4	3,242.08	3/4	2,881.70	3/4	2,521.27		
5		5		5		5	4,373.15	5	4,112.51	5	3,838.37	5	3,552.19	5	3,234.57	5	2,874.19	5	2,513.76		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,367.85	1/4	4,106.93	1/4	3,832.54	1/4	3,546.10	1/4	3,227.06	1/4	2,866.68	1/4	2,506.25		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,362.54	1/2	4,101.33	1/2	3,826.68	1/2	3,540.00	1/2	3,219.55	1/2	2,859.17	1/2	2,498.75		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,357.22	3/4	4,095.73	3/4	3,820.83	3/4	3,533.90	3/4	3,212.05	3/4	2,851.67	3/4	2,491.24		
6		6		6		6	4,351.91	6	4,090.13	6	3,814.97	6	3,527.80	6	3,204.54	6	2,844.16	6	2,483.73		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,346.59	1/4	4,084.53	1/4	3,809.12	1/4	3,521.70	1/4	3,197.03	1/4	2,836.65	1/4	2,476.22		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,341.25	1/2	4,078.90	1/2	3,803.24	1/2	3,515.58	1/2	3,189.52	1/2	2,829.14	1/2	2,468.71		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,601.60	3/4	4,335.92	3/4	4,073.27	3/4	3,797.37	3/4	3,509.46	3/4	3,182.01	3/4	2,821.63	3/4	2,461.21
7		7		7		7	4,597.00	7	4,330.58	7	4,067.65	7	3,791.50	7	3,503.33	7	3,174.51	7	2,814.13	7	2,453.70
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,592.39	1/4	4,325.24	1/4	4,062.02	1/4	3,785.63	1/4	3,497.21	1/4	3,167.00	1/4	2,806.62	1/4	2,446.20
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,586.26	1/2	4,319.88	1/2	4,056.37	1/2	3,779.73	1/2	3,491.08	1/2	3,159.49	1/2	2,799.11	1/2	2,438.69
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,580.13	3/4	4,314.52	3/4	4,050.73	3/4	3,773.84	3/4	3,484.95	3/4	3,151.98	3/4	2,791.60	3/4	2,431.19
8		8		8		8	4,574.00	8	4,309.16	8	4,045.09	8	3,767.95	8	3,478.82	8	3,144.47	8	2,784.09	8	2,423.68
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,567.87	1/4	4,303.80	1/4	4,039.44	1/4	3,762.06	1/4	3,472.69	1/4	3,136.97	1/4	2,776.58	1/4	2,416.17
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,561.73	1/2	4,298.42	1/2	4,033.78	1/2	3,756.14	1/2	3,466.56	1/2	3,129.46	1/2	2,769.07	1/2	2,408.67
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,555.60	3/4	4,293.05	3/4	4,028.12	3/4	3,750.22	3/4	3,460.43	3/4	3,121.95	3/4	2,761.56	3/4	2,401.16
9		9		9		9	4,549.47	9	4,287.67	9	4,022.46	9	3,744.31	9	3,454.30	9	3,114.44	9	2,754.06	9	2,393.66
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,543.34	1/4	4,282.29	1/4	4,016.79	1/4	3,738.39	1/4	3,448.17	1/4	3,106.93	1/4	2,746.55	1/4	2,386.15
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,537.21	1/2	4,276.90	1/2	4,011.10	1/2	3,732.46	1/2	3,442.04	1/2	3,099.43	1/2	2,739.04	1/2	2,378.65
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,531.07	3/4	4,271.50	3/4	4,005.42	3/4	3,726.52	3/4	3,435.91	3/4	3,091.92	3/4	2,731.53	3/4	2,371.14
10		10		10		10	4,524.94	10	4,266.10	10	3,999.73	10	3,720.59	10	3,429.78	10	3,084.41	10	2,724.02	10	2,363.64
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,518.81	1/4	4,260.71	1/4	3,994.04	1/4	3,714.65	1/4	3,423.64	1/4	3,076.90	1/4	2,716.51	1/4	2,356.13
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,512.68	1/2	4,255.28	1/2	3,988.33	1/2	3,708.70	1/2	3,417.38	1/2	3,069.40	1/2	2,709.00	1/2	2,348.62
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,506.55	3/4	4,249.86	3/4	3,982.63	3/4	3,702.74	3/4	3,411.11	3/4	3,061.89	3/4	2,701.49	3/4	2,341.12
11		11		11		11	4,500.41	11	4,244.44	11	3,976.92	11	3,696.79	11	3,404.84	11	3,054.38	11	2,693.98	11	2,333.61
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,494.28	1/4	4,239.02	1/4	3,971.22	1/4	3,690.83	1/4	3,398.57	1/4	3,046.87	1/4	2,686.47	1/4	2,326.11
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,488.05	1/2	4,233.58	1/2	3,965.49	1/2	3,684.86	1/2	3,392.02	1/2	3,039.36	1/2	2,678.96	1/2	2,318.60
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,483.82	3/4	4,228.14	3/4	3,959.77	3/4	3,678.88	3/4	3,385.47	3/4	3,031.86	3/4	2,671.46	3/4	2,311.10

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 41'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77568
<http://www.pmacorp.net>



BARGE "KIRBY 28136"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 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	2,303.59	0	1,944.37	0	1,585.79	0	1,225.31	0	871.46	0	518.62	0	158.42	0		0			
1/4	2,296.09	1/4	1,936.92	1/4	1,578.28	1/4	1,217.80	1/4	864.10	1/4	511.25	1/4	150.90	1/4		1/4			
1/2	2,288.58	1/2	1,929.48	1/2	1,570.77	1/2	1,210.43	1/2	856.72	1/2	503.80	1/2	143.37	1/2		1/2			
3/4	2,281.07	3/4	1,922.03	3/4	1,563.26	3/4	1,203.06	3/4	849.35	3/4	496.36	3/4	135.85	3/4		3/4			
1	2,273.56	1	1,914.59	1	1,555.75	1	1,195.68	1	841.98	1	488.92	1	128.33	1		1			
1/4	2,266.05	1/4	1,907.15	1/4	1,548.24	1/4	1,188.31	1/4	834.60	1/4	481.47	1/4	120.81	1/4		1/4			
1/2	2,258.54	1/2	1,899.70	1/2	1,540.73	1/2	1,180.94	1/2	827.23	1/2	473.96	1/2	113.28	1/2		1/2			
3/4	2,251.03	3/4	1,892.26	3/4	1,533.22	3/4	1,173.56	3/4	819.86	3/4	466.45	3/4	105.76	3/4		3/4			
2	2,243.52	2	1,884.81	2	1,525.71	2	1,166.19	2	812.49	2	458.94	2	98.24	2		2			
1/4	2,236.01	1/4	1,877.37	1/4	1,518.20	1/4	1,158.82	1/4	805.12	1/4	451.43	1/4	90.72	1/4		1/4			
1/2	2,228.50	1/2	1,869.92	1/2	1,510.69	1/2	1,151.44	1/2	797.77	1/2	443.92	1/2	83.19	1/2		1/2			
3/4	2,220.99	3/4	1,862.48	3/4	1,503.18	3/4	1,144.07	3/4	790.42	3/4	436.41	3/4	75.67	3/4		3/4			
3	2,213.48	3	1,855.04	3	1,495.67	3	1,136.70	3	783.06	3	428.90	3	68.15	3		3			
1/4	2,205.97	1/4	1,847.59	1/4	1,488.16	1/4	1,129.32	1/4	775.71	1/4	421.39	1/4	60.62	1/4		1/4			
1/2	2,198.46	1/2	1,840.15	1/2	1,480.65	1/2	1,121.95	1/2	768.37	1/2	413.88	1/2	54.04	1/2		1/2			
3/4	2,190.95	3/4	1,832.70	3/4	1,473.14	3/4	1,114.57	3/4	761.03	3/4	406.36	3/4	47.46	3/4		3/4			
4	2,183.44	4	1,825.26	4	1,465.63	4	1,107.20	4	753.69	4	398.85	4	40.88	4		4			
1/4	2,175.93	1/4	1,817.82	1/4	1,458.12	1/4	1,099.83	1/4	746.35	1/4	391.34	1/4	34.29	1/4		1/4			
1/2	2,168.42	1/2	1,810.37	1/2	1,450.61	1/2	1,092.46	1/2	739.01	1/2	383.83	1/2	29.59	1/2		1/2			
3/4	2,160.91	3/4	1,802.93	3/4	1,443.10	3/4	1,085.09	3/4	731.67	3/4	376.32	3/4	24.89	3/4		3/4			
5	2,153.40	5	1,795.48	5	1,435.59	5	1,077.73	5	724.33	5	368.81	5	20.19	5		5			
1/4	2,145.89	1/4	1,788.04	1/4	1,428.08	1/4	1,070.36	1/4	716.99	1/4	361.30	1/4	15.49	1/4		1/4			
1/2	2,138.38	1/2	1,780.59	1/2	1,420.57	1/2	1,062.99	1/2	709.65	1/2	353.79	1/2		1/2		1/2			
3/4	2,130.87	3/4	1,773.15	3/4	1,413.06	3/4	1,055.63	3/4	702.30	3/4	346.28	3/4		3/4		3/4			
6	2,123.36	6	1,765.71	6	1,405.55	6	1,048.26	6	694.96	6	338.77	6		6		6			
1/4	2,115.85	1/4	1,758.26	1/4	1,398.04	1/4	1,040.89	1/4	687.62	1/4	331.25	1/4		1/4		1/4			
1/2	2,108.34	1/2	1,750.82	1/2	1,390.53	1/2	1,033.53	1/2	680.28	1/2	323.74	1/2		1/2		1/2			
3/4	2,100.83	3/4	1,743.37	3/4	1,383.02	3/4	1,026.16	3/4	672.94	3/4	316.23	3/4		3/4		3/4			
7	2,093.32	7	1,735.93	7	1,375.51	7	1,018.79	7	665.59	7	308.72	7		7		7			
1/4	2,085.81	1/4	1,728.48	1/4	1,368.00	1/4	1,011.43	1/4	658.25	1/4	301.21	1/4		1/4		1/4			
1/2	2,078.30	1/2	1,720.97	1/2	1,360.49	1/2	1,004.06	1/2	650.91	1/2	293.70	1/2		1/2		1/2			
3/4	2,070.79	3/4	1,713.46	3/4	1,352.98	3/4	996.69	3/4	643.57	3/4	286.19	3/4		3/4		3/4			
8	2,063.27	8	1,705.95	8	1,345.47	8	989.33	8	636.23	8	278.68	8		8		8			
1/4	2,056.03	1/4	1,698.44	1/4	1,337.96	1/4	981.96	1/4	628.89	1/4	271.17	1/4		1/4		1/4			
1/2	2,048.59	1/2	1,690.93	1/2	1,330.45	1/2	974.60	1/2	621.54	1/2	263.66	1/2		1/2		1/2			
3/4	2,041.14	3/4	1,683.42	3/4	1,322.94	3/4	967.23	3/4	614.20	3/4	256.14	3/4		3/4		3/4			
9	2,033.70	9	1,675.91	9	1,315.43	9	959.86	9	606.86	9	248.63	9		9		9			
1/4	2,026.25	1/4	1,668.40	1/4	1,307.92	1/4	952.50	1/4	599.52	1/4	241.12	1/4		1/4		1/4			
1/2	2,018.81	1/2	1,660.89	1/2	1,300.41	1/2	945.13	1/2	592.18	1/2	233.61	1/2		1/2		1/2			
3/4	2,011.36	3/4	1,653.38	3/4	1,292.90	3/4	937.76	3/4	584.83	3/4	226.10	3/4		3/4		3/4			
10	2,003.92	10	1,645.87	10	1,285.39	10	930.40	10	577.49	10	218.59	10		10		10			
1/4	1,996.48	1/4	1,638.36	1/4	1,277.88	1/4	923.03	1/4	570.15	1/4	211.08	1/4		1/4		1/4			
1/2	1,989.03	1/2	1,630.85	1/2	1,270.37	1/2	915.66	1/2	562.80	1/2	203.56	1/2		1/2		1/2			
3/4	1,981.59	3/4	1,623.34	3/4	1,262.86	3/4	908.30	3/4	555.44	3/4	196.03	3/4		3/4		3/4			
11	1,974.14	11	1,615.83	11	1,255.35	11	900.93	11	548.09	11	188.51	11		11		11			
1/4	1,966.70	1/4	1,608.32	1/4	1,247.84	1/4	893.56	1/4	540.73	1/4	180.99	1/4		1/4		1/4			
1/2	1,959.26	1/2	1,600.81	1/2	1,240.33	1/2	886.20	1/2	533.36	1/2	173.47	1/2		1/2		1/2			
3/4	1,951.81	3/4	1,593.30	3/4	1,232.82	3/4	878.83	3/4	525.99	3/4	165.94	3/4		3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/18/2009 CL - SW
CALCULATED: 12/18/2009 CL
PRINTED: 12/18/2009 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2009

PRECISION MEASUREMENT
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