



KIRBY 28040



Barge Strapping Tables





BARGE "KIRBY 28040"

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	- 00-1/2	00-1/2	- 00-5/8	00-5/8	- 00-3/4	00-3/4	- 00-7/8	00-7/8
1 STBD	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/2	00-1/2	- 00-5/8	00-5/8	- 00-3/4	00-3/4	- 00-7/8	00-7/8
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	- 00-2/4	00-2/4	- 00-6/8	00-6/8
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	- 00-3/4	00-3/4	- 00-6/8	00-6/8
3 PORT	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-5/8	00-5/8	- 00-3/4	00-3/4	- 00-7/8	00-7/8
3 STBD	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-5/8	00-5/8	- 00-3/4	00-3/4	- 00-7/8	00-7/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 237'-00"

June 24, 2005

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

<http://www.pmacorp.net>

VULNERABILITY TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS										GAUGE HEIGHT 16" 10' 1/2"									
0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0	0	0	0	0	0	4,061.71	0	3,765.24	0	3,454.08	0	3,129.38	0	2,797.52	0	2,465.65			
1/4	1/4	1/4	1/4	1/4	1/4	4,055.69	1/4	3,758.89	1/4	3,447.46	1/4	3,122.47	1/4	2,790.61	1/4	2,458.73			
1/2	1/2	1/2	1/2	1/2	1/2	4,049.66	1/2	3,752.55	1/2	3,440.83	1/2	3,115.57	1/2	2,783.69	1/2	2,451.82			
3/4	3/4	3/4	3/4	3/4	3/4	4,043.61	3/4	3,746.18	3/4	3,434.19	3/4	3,108.66	3/4	2,776.78	3/4	2,444.90			
1	1	1	1	1	1	4,037.23	1	3,739.82	1	3,427.54	1	3,101.74	1	2,769.87	1	2,437.99			
1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	4,031.50	1 1/4	3,733.45	1 1/4	3,420.90	1 1/4	3,094.83	1 1/4	2,762.95	1 1/4	2,431.07			
1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	4,025.45	1 1/2	3,727.09	1 1/2	3,414.25	1 1/2	3,087.91	1 1/2	2,756.04	1 1/2	2,424.16			
3/4	3/4	3/4	3/4	3/4	3/4	4,019.37	3/4	3,720.70	3/4	3,407.58	3/4	3,081.00	3/4	2,749.12	3/4	2,417.24			
2	2	2	2	2	2	4,013.30	2	3,714.31	2	3,400.91	2	3,074.09	2	2,742.21	2	2,410.33			
2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	4,007.23	2 1/4	3,707.93	2 1/4	3,394.24	2 1/4	3,067.17	2 1/4	2,735.30	2 1/4	2,403.41			
2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	4,001.16	2 1/2	3,701.54	2 1/2	3,387.56	2 1/2	3,060.26	2 1/2	2,728.38	2 1/2	2,396.49			
3/4	3/4	3/4	3/4	3/4	3/4	3,995.06	3/4	3,695.13	3/4	3,380.87	3/4	3,053.34	3/4	2,721.47	3/4	2,389.58			
3	3	3	3	3	3	3,988.97	3	3,688.71	3	3,374.18	3	3,046.43	3	2,714.55	3	2,382.66			
3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3,982.87	3 1/4	3,682.30	3 1/4	3,367.48	3 1/4	3,039.52	3 1/4	2,707.64	3 1/4	2,375.75			
3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3,976.78	3 1/2	3,675.88	3 1/2	3,360.79	3 1/2	3,032.60	3 1/2	2,700.72	3 1/2	2,368.83			
3/4	3/4	3/4	3/4	3/4	3/4	3,970.66	3/4	3,669.45	3/4	3,354.07	3/4	3,025.69	3/4	2,693.81	3/4	2,361.92			
4	4	4	4	4	4	3,964.53	4	3,663.01	4	3,347.36	4	3,018.77	4	2,686.90	4	2,355.00			
4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	3,958.41	4 1/4	3,656.58	4 1/4	3,340.64	4 1/4	3,011.86	4 1/4	2,679.98	4 1/4	2,348.09			
4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	3,952.29	4 1/2	3,650.14	4 1/2	3,333.93	4 1/2	3,004.95	4 1/2	2,673.07	4 1/2	2,341.17			
3/4	3/4	3/4	3/4	3/4	3/4	3,946.15	3/4	3,643.69	3/4	3,327.19	3/4	2,998.03	3/4	2,666.15	3/4	2,334.26			
5	5	5	5	5	5	3,940.01	5	3,637.23	5	3,320.45	5	2,991.12	5	2,659.24	5	2,327.34			
5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	3,933.86	5 1/4	3,630.77	5 1/4	3,313.70	5 1/4	2,984.20	5 1/4	2,652.33	5 1/4	2,320.43			
5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	3,927.72	5 1/2	3,624.32	5 1/2	3,306.96	5 1/2	2,977.29	5 1/2	2,645.41	5 1/2	2,313.51			
3/4	3/4	3/4	3/4	3/4	3/4	3,921.56	3/4	3,617.83	3/4	3,300.20	3/4	2,970.37	3/4	2,638.50	3/4	2,306.60			
6	6	6	6	6	6	3,915.39	6	3,611.35	6	3,293.44	6	2,963.46	6	2,631.58	6	2,299.68			
6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	3,909.23	6 1/4	3,604.86	6 1/4	3,286.67	6 1/4	2,956.55	6 1/4	2,624.67	6 1/4	2,292.77			
6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	3,903.06	6 1/2	3,598.38	6 1/2	3,279.91	6 1/2	2,949.63	6 1/2	2,617.76	6 1/2	2,285.85			
3/4	3/4	3/4	3/4	3/4	3/4	3,896.87	3/4	3,591.88	3/4	3,273.12	3/4	2,942.72	3/4	2,610.84	3/4	2,278.93			
7	7	7	7	7	7	3,890.68	7	3,585.37	7	3,266.32	7	2,935.80	7	2,603.93	7	2,272.02			
7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	3,884.49	7 1/4	3,578.87	7 1/4	3,259.53	7 1/4	2,928.89	7 1/4	2,597.01	7 1/4	2,265.10			
7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	3,878.30	7 1/2	3,572.36	7 1/2	3,252.74	7 1/2	2,921.98	7 1/2	2,590.10	7 1/2	2,258.19			
3/4	3/4	3/4	3/4	3/4	3/4	3,872.09	3/4	3,565.84	3/4	3,245.92	3/4	2,915.06	3/4	2,583.19	3/4	2,251.27			
8	8	8	8	8	8	3,865.87	8	3,559.31	8	3,239.11	8	2,908.15	8	2,576.27	8	2,244.36			
8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	3,859.66	8 1/4	3,552.78	8 1/4	3,232.30	8 1/4	2,901.23	8 1/4	2,569.36	8 1/4	2,237.44			
8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	3,853.45	8 1/2	3,546.26	8 1/2	3,225.49	8 1/2	2,894.32	8 1/2	2,562.44	8 1/2	2,230.53			
3/4	3/4	3/4	3/4	3/4	3/4	3,847.18	3/4	3,539.70	3/4	3,218.66	3/4	2,887.41	3/4	2,555.53	3/4	2,223.61			
9	9	9	9	9	9	3,840.91	9	3,533.15	9	3,211.82	9	2,880.49	9	2,548.61	9	2,216.70			
9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	3,834.64	9 1/4	3,526.60	9 1/4	3,204.99	9 1/4	2,873.58	9 1/4	2,541.70	9 1/4	2,209.78			
9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	3,828.38	9 1/2	3,520.04	9 1/2	3,198.16	9 1/2	2,866.66	9 1/2	2,534.79	9 1/2	2,202.87			
3/4	3/4	3/4	3/4	3/4	3/4	3,822.08	3/4	3,513.47	3/4	3,191.29	3/4	2,859.75	3/4	2,527.87	3/4	2,195.95			
10	10	10	10	10	10	3,815.79	10	3,506.89	10	3,184.43	10	2,852.84	10	2,520.96	10	2,189.04			
10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	3,809.49	10 1/4	3,500.32	10 1/4	3,177.57	10 1/4	2,845.92	10 1/4	2,514.04	10 1/4	2,182.12			
10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	3,803.20	10 1/2	3,493.74	10 1/2	3,170.71	10 1/2	2,839.01	10 1/2	2,507.13	10 1/2	2,175.21			
3/4	3/4	3/4	3/4	3/4	3/4	3,796.88	3/4	3,487.14	3/4	3,163.83	3/4	2,832.09	3/4	2,500.22	3/4	2,168.29			
11	11	11	11	11	11	3,790.56	11	3,480.53	11	3,156.94	11	2,825.18	11	2,493.30	11	2,161.37			
11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	3,784.25	11 1/4	3,473.93	11 1/4	3,150.06	11 1/4	2,818.26	11 1/4	2,486.39	11 1/4	2,154.46			
11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	3,777.93	11 1/2	3,467.33	11 1/2	3,143.18	11 1/2	2,814.35	11 1/2	2,479.47	11 1/2	2,147.54			
3/4	3/4	3/4	3/4	3/4	3/4	3,771.58	3/4	3,460.70	3/4	3,136.28	3/4	2,801.44	3/4	2,472.56	3/4	2,140.63			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

PRECISION MEASUREMENT
& ANALYSIS, INC.

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[Signature]



BARGE "KIRBY 28040"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-10 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,133.71	0	1,801.78	0	1,469.84	0	1,137.91	0	811.71	0	507.43	0	226.61	0		0			
1/4	2,126.80	1/4	1,794.86	1/4	1,462.93	1/4	1,131.00	1/4	805.14	1/4	501.33	1/4	221.01	1/4		1/4			
1/2	2,119.88	1/2	1,787.95	1/2	1,456.01	1/2	1,124.08	1/2	798.56	1/2	495.23	1/2	215.40	1/2		1/2			
3/4	2,112.97	3/4	1,781.03	3/4	1,449.10	3/4	1,117.16	3/4	792.03	3/4	489.18	3/4	209.84	3/4		3/4			
1	2,106.05	1	1,774.12	1	1,442.18	1	1,110.23	1	785.50	1	483.12	1	204.28	1		1			
1/4	2,099.14	1/4	1,767.20	1/4	1,435.27	1/4	1,103.33	1/4	778.97	1/4	477.07	1/4	198.72	1/4		1/4			
1/2	2,092.22	1/2	1,760.29	1/2	1,428.35	1/2	1,096.42	1/2	772.44	1/2	471.01	1/2	193.16	1/2		1/2			
3/4	2,085.31	3/4	1,753.37	3/4	1,421.44	3/4	1,089.50	3/4	765.95	3/4	465.00	3/4	187.63	3/4		3/4			
1	2,078.39	1	1,746.46	1	1,414.52	1	1,082.59	1	759.46	1	458.98	1	182.11	1		1			
1/4	2,071.48	1/4	1,739.54	1/4	1,407.61	1/4	1,075.68	1/4	752.96	1/4	452.97	1/4	176.58	1/4		1/4			
1/2	2,064.56	1/2	1,732.63	1/2	1,400.69	1/2	1,068.76	1/2	746.47	1/2	446.95	1/2	171.06	1/2		1/2			
3/4	2,057.65	3/4	1,725.71	3/4	1,393.78	3/4	1,061.86	3/4	740.01	3/4	440.98	3/4	165.58	3/4		3/4			
1	2,050.73	1	1,718.80	1	1,386.86	1	1,054.95	1	733.54	1	435.01	1	160.10	1		1			
1/4	2,043.81	1/4	1,711.88	1/4	1,379.95	1/4	1,048.04	1/4	727.08	1/4	429.04	1/4	154.62	1/4		1/4			
1/2	2,036.90	1/2	1,704.96	1/2	1,373.03	1/2	1,041.14	1/2	720.61	1/2	423.06	1/2	149.14	1/2		1/2			
3/4	2,029.98	3/4	1,698.05	3/4	1,366.12	3/4	1,034.25	3/4	714.19	3/4	417.13	3/4	143.70	3/4		3/4			
1	2,023.07	1	1,691.13	1	1,359.20	1	1,027.36	1	707.76	1	411.20	1	138.26	1		1			
1/4	2,016.15	1/4	1,684.22	1/4	1,352.28	1/4	1,020.47	1/4	701.34	1/4	405.26	1/4	132.81	1/4		1/4			
1/2	2,009.24	1/2	1,677.30	1/2	1,345.37	1/2	1,013.57	1/2	694.91	1/2	399.33	1/2	127.37	1/2		1/2			
3/4	2,002.32	3/4	1,670.39	3/4	1,338.45	3/4	1,006.71	3/4	688.53	3/4	393.44	3/4	121.97	3/4		3/4			
1	1,995.41	1	1,663.47	1	1,331.54	1	999.84	1	682.14	1	387.55	1	116.58	1		1			
1/4	1,988.49	1/4	1,656.56	1/4	1,324.62	1/4	992.98	1/4	675.76	1/4	381.66	1/4	111.18	1/4		1/4			
1/2	1,981.58	1/2	1,649.64	1/2	1,317.71	1/2	986.11	1/2	669.38	1/2	375.77	1/2	105.79	1/2		1/2			
3/4	1,974.66	3/4	1,642.73	3/4	1,310.79	3/4	979.28	3/4	663.04	3/4	369.92	3/4	100.43	3/4		3/4			
1	1,967.75	1	1,635.81	1	1,303.88	1	972.44	1	656.69	1	364.07	1	95.07	1		1			
1/4	1,960.83	1/4	1,628.90	1/4	1,296.96	1/4	965.61	1/4	650.35	1/4	358.22	1/4	89.71	1/4		1/4			
1/2	1,953.92	1/2	1,622.98	1/2	1,290.05	1/2	958.77	1/2	644.01	1/2	352.36	1/2	84.36	1/2		1/2			
3/4	1,947.00	3/4	1,616.07	3/4	1,283.13	3/4	952.00	3/4	637.70	3/4	346.56	3/4	79.04	3/4		3/4			
1	1,940.09	1	1,609.15	1	1,276.22	1	945.22	1	631.40	1	340.75	1	73.73	1		1			
1/4	1,933.17	1/4	1,602.24	1/4	1,269.30	1/4	938.44	1/4	625.10	1/4	334.94	1/4	68.42	1/4		1/4			
1/2	1,926.25	1/2	1,595.32	1/2	1,262.39	1/2	931.66	1/2	618.80	1/2	329.13	1/2	63.11	1/2		1/2			
3/4	1,919.34	3/4	1,588.40	3/4	1,255.47	3/4	924.93	3/4	612.54	3/4	323.36	3/4	57.83	3/4		3/4			
1	1,912.42	1	1,581.49	1	1,248.56	1	918.19	1	606.28	1	317.59	1	52.56	1		1			
1/4	1,905.51	1/4	1,574.57	1/4	1,241.64	1/4	911.45	1/4	600.02	1/4	311.82	1/4	47.28	1/4		1/4			
1/2	1,898.59	1/2	1,567.66	1/2	1,234.72	1/2	904.71	1/2	593.76	1/2	306.05	1/2	42.01	1/2		1/2			
3/4	1,891.68	3/4	1,560.74	3/4	1,227.81	3/4	898.02	3/4	587.54	3/4	300.33	3/4	37.64	3/4		3/4			
1	1,884.76	1	1,553.83	1	1,220.89	1	891.32	1	581.32	1	294.60	1	33.28	1		1			
1/4	1,877.85	1/4	1,546.91	1/4	1,213.98	1/4	884.63	1/4	575.10	1/4	288.88	1/4	28.91	1/4		1/4			
1/2	1,870.93	1/2	1,540.00	1/2	1,207.06	1/2	877.93	1/2	568.88	1/2	283.15	1/2	24.55	1/2		1/2			
3/4	1,864.02	3/4	1,533.08	3/4	1,200.15	3/4	871.28	3/4	562.70	3/4	277.46	3/4	21.95	3/4		3/4			
1	1,857.10	1	1,526.17	1	1,193.23	1	864.62	1	556.52	1	271.78	1	19.35	1		1			
1/4	1,850.19	1/4	1,519.25	1/4	1,186.32	1/4	857.97	1/4	550.35	1/4	266.09	1/4	16.75	1/4		1/4			
1/2	1,843.27	1/2	1,512.34	1/2	1,179.40	1/2	851.31	1/2	544.17	1/2	260.40	1/2	14.15	1/2		1/2			
3/4	1,836.36	3/4	1,505.42	3/4	1,172.49	3/4	844.70	3/4	538.03	3/4	254.76	3/4		3/4		3/4			
1	1,829.44	1	1,498.51	1	1,165.57	1	838.08	1	531.89	1	249.11	1		1		1			
1/4	1,822.52	1/4	1,491.59	1/4	1,158.66	1/4	831.47	1/4	525.76	1/4	243.47	1/4		1/4		1/4			
1/2	1,815.61	1/2	1,484.68	1/2	1,151.74	1/2	824.86	1/2	519.62	1/2	237.83	1/2		1/2		1/2			
3/4	1,808.69	3/4	1,477.76	3/4	1,144.83	3/4	818.28	3/4	513.52	3/4	232.22	3/4		3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/24/2005 CL - SW
CALCULATED: 06/24/2005 CL
PRINTED: 06/24/2005 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2005

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

Tom J. Pearson

1STBD

ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE 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 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 36"-10" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

**PRECISION MEASUREMENT
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BARGE "KIRBY 28040"

1 STBD

ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-10 3/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
N	IN	N	IN	N	IN	N	IN	N	IN	N	IN	N	IN	N	IN	N	IN	N	IN
0	2,136.61	0	1,805.03	0	1,473.44	0	1,141.85	0	816.73	0	512.97	0	231.97	0	0	0	0	0	0
1/4	2,129.71	1/4	1,798.12	1/4	1,466.53	1/4	1,134.94	1/4	810.20	1/4	506.88	1/4	226.37	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,122.80	1/2	1,791.21	1/2	1,459.62	1/2	1,128.03	1/2	803.67	1/2	500.79	1/2	220.77	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,115.89	3/4	1,784.30	3/4	1,452.71	3/4	1,121.12	3/4	797.14	3/4	494.70	3/4	215.17	3/4	3/4	3/4	3/4	3/4	3/4
1	2,108.98	1	1,777.39	1	1,445.80	1	1,114.22	1	790.66	1	488.65	1	209.62	1	1	1	1	1	1
1/4	2,102.07	1/4	1,770.49	1/4	1,438.90	1/4	1,107.31	1/4	784.17	1/4	482.61	1/4	204.06	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,095.17	1/2	1,763.58	1/2	1,431.99	1/2	1,100.40	1/2	777.68	1/2	476.56	1/2	198.51	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,088.26	3/4	1,756.67	3/4	1,425.08	3/4	1,093.49	3/4	771.20	3/4	470.51	3/4	192.95	3/4	3/4	3/4	3/4	3/4	3/4
2	2,081.35	2	1,749.76	2	1,418.17	2	1,086.58	2	764.75	2	464.50	2	187.43	2	2	2	2	2	2
1/4	2,074.44	1/4	1,742.85	1/4	1,411.26	1/4	1,079.68	1/4	758.31	1/4	458.49	1/4	181.91	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,067.53	1/2	1,735.94	1/2	1,404.36	1/2	1,072.77	1/2	751.86	1/2	452.48	1/2	176.40	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,060.63	3/4	1,729.04	3/4	1,397.45	3/4	1,065.86	3/4	745.41	3/4	446.47	3/4	170.88	3/4	3/4	3/4	3/4	3/4	3/4
3	2,053.72	3	1,722.13	3	1,390.54	3	1,058.97	3	738.99	3	440.51	3	165.40	3	3	3	3	3	3
1/4	2,046.81	1/4	1,715.22	1/4	1,383.63	1/4	1,052.07	1/4	732.57	1/4	434.54	1/4	159.93	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,039.90	1/2	1,708.31	1/2	1,376.72	1/2	1,045.17	1/2	726.15	1/2	428.58	1/2	154.46	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,032.99	3/4	1,701.40	3/4	1,369.82	3/4	1,038.27	3/4	719.72	3/4	422.61	3/4	148.98	3/4	3/4	3/4	3/4	3/4	3/4
4	2,026.09	4	1,694.50	4	1,362.91	4	1,031.38	4	713.34	4	416.68	4	143.55	4	4	4	4	4	4
1/4	2,019.18	1/4	1,687.59	1/4	1,356.00	1/4	1,024.50	1/4	706.95	1/4	410.76	1/4	138.11	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,012.27	1/2	1,680.68	1/2	1,349.09	1/2	1,017.62	1/2	700.56	1/2	404.83	1/2	132.67	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,005.36	3/4	1,673.77	3/4	1,342.18	3/4	1,010.73	3/4	694.17	3/4	398.90	3/4	127.23	3/4	3/4	3/4	3/4	3/4	3/4
5	1,998.45	5	1,666.86	5	1,335.28	5	1,003.91	5	687.79	5	393.02	5	121.84	5	5	5	5	5	5
1/4	1,991.54	1/4	1,659.96	1/4	1,328.37	1/4	997.08	1/4	681.42	1/4	387.14	1/4	116.45	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,984.64	1/2	1,653.05	1/2	1,321.46	1/2	990.25	1/2	675.04	1/2	381.26	1/2	111.06	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,977.73	3/4	1,646.14	3/4	1,314.55	3/4	983.42	3/4	668.67	3/4	375.37	3/4	105.67	3/4	3/4	3/4	3/4	3/4	3/4
6	1,970.82	6	1,639.23	6	1,307.64	6	976.63	6	662.33	6	369.52	6	100.32	6	6	6	6	6	6
1/4	1,963.91	1/4	1,632.32	1/4	1,300.73	1/4	969.84	1/4	655.99	1/4	363.68	1/4	94.97	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,957.00	1/2	1,625.42	1/2	1,293.83	1/2	963.05	1/2	649.66	1/2	357.83	1/2	89.62	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,950.10	3/4	1,618.51	3/4	1,286.92	3/4	956.25	3/4	643.32	3/4	351.99	3/4	84.27	3/4	3/4	3/4	3/4	3/4	3/4
7	1,943.19	7	1,611.60	7	1,280.01	7	949.52	7	637.02	7	346.19	7	78.96	7	7	7	7	7	7
1/4	1,936.28	1/4	1,604.69	1/4	1,273.10	1/4	942.79	1/4	630.73	1/4	340.38	1/4	73.65	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,929.37	1/2	1,597.78	1/2	1,266.19	1/2	936.06	1/2	624.44	1/2	334.58	1/2	68.35	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,922.46	3/4	1,590.87	3/4	1,259.29	3/4	929.33	3/4	618.14	3/4	328.78	3/4	63.04	3/4	3/4	3/4	3/4	3/4	3/4
8	1,915.56	8	1,583.97	8	1,252.38	8	922.64	8	611.89	8	323.02	8	57.77	8	8	8	8	8	8
1/4	1,908.65	1/4	1,577.06	1/4	1,245.47	1/4	915.94	1/4	605.63	1/4	317.25	1/4	52.50	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,901.74	1/2	1,570.15	1/2	1,238.56	1/2	909.25	1/2	599.38	1/2	311.49	1/2	47.23	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,894.83	3/4	1,563.24	3/4	1,231.65	3/4	902.56	3/4	593.12	3/4	305.73	3/4	41.96	3/4	3/4	3/4	3/4	3/4	3/4
9	1,887.92	9	1,556.33	9	1,224.75	9	895.91	9	586.91	9	300.01	9	37.60	9	9	9	9	9	9
1/4	1,881.02	1/4	1,549.43	1/4	1,217.84	1/4	889.26	1/4	580.70	1/4	294.29	1/4	33.24	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,874.11	1/2	1,542.52	1/2	1,210.93	1/2	882.61	1/2	574.49	1/2	288.57	1/2	28.88	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,867.20	3/4	1,535.61	3/4	1,204.02	3/4	875.96	3/4	568.28	3/4	282.85	3/4	24.52	3/4	3/4	3/4	3/4	3/4	3/4
10	1,860.29	10	1,528.70	10	1,197.11	10	869.35	10	562.10	10	277.17	10	21.92	10	10	10	10	10	10
1/4	1,853.38	1/4	1,521.79	1/4	1,190.21	1/4	862.74	1/4	555.93	1/4	271.48	1/4	19.33	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,846.47	1/2	1,514.89	1/2	1,183.30	1/2	856.13	1/2	549.76	1/2	265.80	1/2	16.73	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,839.57	3/4	1,507.98	3/4	1,176.39	3/4	849.52	3/4	543.59	3/4	260.12	3/4	14.14	3/4	3/4	3/4	3/4	3/4	3/4
11	1,832.66	11	1,501.07	11	1,169.48	11	842.96	11	537.46	11	254.48	11	11	11	11	11	11	11	11
1/4	1,825.75	1/4	1,494.16	1/4	1,162.57	1/4	836.39	1/4	531.33	1/4	248.85	1/4	8	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,818.84	1/2	1,487.25	1/2	1,155.66	1/2	829.82	1/2	525.20	1/2	243.21	1/2	5	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,811.93	3/4	1,480.35	3/4	1,148.76	3/4	823.25	3/4	519.07	3/4	237.57	3/4	3	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/24/2005 CL - SW
CALCULATED: 06/24/2005 CL
PRINTED: 06/24/2005 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2005

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2052
Pearland, Texas 77588
<http://www.pmacorp.net>

Paul Johnson



GAUGE HEIGHT 16'-10 1/4"

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

**PRECISION MEASUREMENT
& ANALYSIS, INC.**

P.O. Box 2092
Pearland, Texas 77588
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For



BARGE "KIRBY 28040"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-10 1/4"

IN	10 FT.	11 FT.	12 FT.	13 FT.	14 FT.	15 FT.	16 FT.	17 FT.	18 FT.	19 FT.
0	2,659.86	2,271.57	1,883.29	1,495.00	1,106.71	718.94	331.24	0	0	0
1/4	2,651.77	2,263.48	1,875.20	1,486.91	1,098.62	710.88	323.16	1/4	1/4	1/4
1/2	2,643.68	2,255.39	1,867.11	1,478.82	1,090.54	702.81	315.08	1/2	1/2	1/2
3/4	2,635.59	2,247.31	1,859.02	1,470.73	1,082.45	694.75	307.00	3/4	3/4	3/4
1	2,627.50	2,239.22	1,850.93	1,462.64	1,074.36	686.68	298.92	1	1	1
1/4	2,619.41	2,231.13	1,842.84	1,454.55	1,066.27	678.62	290.84	1/4	1/4	1/4
1/2	2,611.32	2,223.04	1,834.75	1,446.46	1,058.18	670.55	282.76	1/2	1/2	1/2
3/4	2,603.23	2,214.95	1,826.66	1,438.37	1,050.09	662.47	274.67	3/4	3/4	3/4
2	2,595.14	2,206.86	1,818.57	1,430.29	1,042.00	654.42	266.59	2	2	2
1/4	2,587.06	2,198.77	1,810.48	1,422.20	1,033.91	646.36	258.51	1/4	1/4	1/4
1/2	2,578.97	2,190.68	1,802.39	1,414.11	1,025.82	638.28	250.43	1/2	1/2	1/2
3/4	2,570.88	2,182.59	1,794.30	1,406.02	1,017.73	630.21	242.35	3/4	3/4	3/4
3	2,562.79	2,174.50	1,786.21	1,397.93	1,009.64	622.13	234.27	3	3	3
1/4	2,554.70	2,166.41	1,778.13	1,389.84	1,001.55	614.06	226.19	1/4	1/4	1/4
1/2	2,546.61	2,158.32	1,770.04	1,381.75	993.46	605.98	218.11	1/2	1/2	1/2
3/4	2,538.52	2,150.23	1,761.95	1,373.66	985.37	597.90	210.03	3/4	3/4	3/4
4	2,530.43	2,142.14	1,753.86	1,365.57	977.28	589.82	201.95	4	4	4
1/4	2,522.34	2,134.05	1,745.77	1,357.48	969.20	581.74	193.87	1/4	1/4	1/4
1/2	2,514.25	2,125.97	1,737.68	1,349.39	961.11	573.66	185.79	1/2	1/2	1/2
3/4	2,506.16	2,117.88	1,729.59	1,341.30	953.02	565.58	177.71	3/4	3/4	3/4
5	2,498.07	2,109.79	1,721.50	1,333.21	944.93	557.50	169.63	5	5	5
1/4	2,489.98	2,101.70	1,713.41	1,325.12	936.84	549.42	161.55	1/4	1/4	1/4
1/2	2,481.89	2,093.61	1,705.32	1,317.04	928.75	541.33	153.47	1/2	1/2	1/2
3/4	2,473.81	2,085.52	1,697.23	1,308.95	920.66	533.25	145.39	3/4	3/4	3/4
6	2,465.72	2,077.43	1,689.14	1,300.86	912.57	525.17	137.30	6	6	6
1/4	2,457.63	2,069.34	1,681.05	1,292.77	904.48	517.09	129.22	1/4	1/4	1/4
1/2	2,449.54	2,061.25	1,672.96	1,284.68	896.40	509.01	121.14	1/2	1/2	1/2
3/4	2,441.45	2,053.16	1,664.88	1,276.59	888.33	500.93	113.06	3/4	3/4	3/4
7	2,433.36	2,045.07	1,656.79	1,268.50	880.25	492.85	104.98	7	7	7
1/4	2,425.27	2,036.98	1,648.70	1,260.41	872.17	484.77	96.90	1/4	1/4	1/4
1/2	2,417.18	2,028.89	1,640.61	1,252.32	864.11	476.69	88.82	1/2	1/2	1/2
3/4	2,409.09	2,020.80	1,632.52	1,244.23	856.04	468.61	80.74	3/4	3/4	3/4
8	2,401.00	2,012.72	1,624.43	1,236.14	847.98	460.53	72.66	8	8	8
1/4	2,392.91	2,004.63	1,616.34	1,228.05	839.91	452.45	64.58	1/4	1/4	1/4
1/2	2,384.82	1,996.54	1,608.25	1,219.96	831.85	444.37	56.51	1/2	1/2	1/2
3/4	2,376.73	1,988.45	1,600.16	1,211.87	823.78	436.29	48.44	3/4	3/4	3/4
9	2,368.64	1,980.36	1,592.07	1,203.79	815.72	428.21	40.37	9	9	9
1/4	2,360.56	1,972.27	1,583.98	1,195.70	807.65	420.13	32.30	1/4	1/4	1/4
1/2	2,352.47	1,964.18	1,575.89	1,187.61	799.59	412.04	24.25	1/2	1/2	1/2
3/4	2,344.38	1,956.09	1,567.80	1,179.52	791.52	403.96	16.11	3/4	3/4	3/4
10	2,336.29	1,948.00	1,559.71	1,171.43	783.46	395.88	8.00	10	10	10
1/4	2,328.20	1,939.91	1,551.63	1,163.34	775.39	387.80	0.00	1/4	1/4	1/4
1/2	2,320.11	1,931.82	1,543.54	1,155.25	767.33	379.72	-8.11	1/2	1/2	1/2
3/4	2,312.02	1,923.73	1,535.45	1,147.16	759.26	371.64	-16.22	3/4	3/4	3/4
11	2,303.93	1,915.64	1,527.36	1,139.07	751.20	363.56	-24.33	11	11	11
1/4	2,295.84	1,907.55	1,519.27	1,130.98	743.13	355.48	-32.44	1/4	1/4	1/4
1/2	2,287.75	1,899.47	1,511.18	1,122.89	735.07	347.40	-40.55	1/2	1/2	1/2
3/4	2,279.66	1,891.38	1,503.09	1,114.80	727.00	339.32	-48.66	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

Paul J. ...

BARGE "KIRBY 28040"

2 STBD

ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-10 1/2"

CAPACITIES GIVEN IN WHOLE BARRELS OR 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	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
0	0	1/4	1/2	3/4	1	1/4	1/2	3/4	1	1/4	1/2	3/4	1	1/4	1/2	3/4	1	1/4	1/2
1/4	5,259.86	5,253.79	4,902.55	4,563.75	4,231.01	3,900.27	3,571.53	3,244.79	2,918.05	2,594.31	2,271.57	1,948.83	1,625.09	1,301.35	977.61	653.87	330.13	0	0
1/2	5,253.79	4,902.55	4,563.75	4,231.01	3,900.27	3,571.53	3,244.79	2,918.05	2,594.31	2,271.57	1,948.83	1,625.09	1,301.35	977.61	653.87	330.13	0	1/4	1/2
3/4	4,902.55	4,563.75	4,231.01	3,900.27	3,571.53	3,244.79	2,918.05	2,594.31	2,271.57	1,948.83	1,625.09	1,301.35	977.61	653.87	330.13	0	1/4	1/2	3/4
1	4,563.75	4,231.01	3,900.27	3,571.53	3,244.79	2,918.05	2,594.31	2,271.57	1,948.83	1,625.09	1,301.35	977.61	653.87	330.13	0	1/4	1/2	3/4	1
1/4	4,231.01	3,900.27	3,571.53	3,244.79	2,918.05	2,594.31	2,271.57	1,948.83	1,625.09	1,301.35	977.61	653.87	330.13	0	1/4	1/2	3/4	1	1/4
1/2	3,900.27	3,571.53	3,244.79	2,918.05	2,594.31	2,271.57	1,948.83	1,625.09	1,301.35	977.61	653.87	330.13	0	1/4	1/2	3/4	1	1/4	1/2
3/4	3,571.53	3,244.79	2,918.05	2,594.31	2,271.57	1,948.83	1,625.09	1,301.35	977.61	653.87	330.13	0	1/4	1/2	3/4	1	1/4	1/2	3/4
1	3,244.79	2,918.05	2,594.31	2,271.57	1,948.83	1,625.09	1,301.35	977.61	653.87	330.13	0	1/4	1/2	3/4	1	1/4	1/2	3/4	1
1/4	2,918.05	2,594.31	2,271.57	1,948.83	1,625.09	1,301.35	977.61	653.87	330.13	0	1/4	1/2	3/4	1	1/4	1/2	3/4	1	1/4
1/2	2,594.31	2,271.57	1,948.83	1,625.09	1,301.35	977.61	653.87	330.13	0	1/4	1/2	3/4	1	1/4	1/2	3/4	1	1/4	1/2
3/4	2,271.57	1,948.83	1,625.09	1,301.35	977.61	653.87	330.13	0	1/4	1/2	3/4	1	1/4	1/2	3/4	1	1/4	1/2	3/4
1	1,948.83	1,625.09	1,301.35	977.61	653.87	330.13	0	1/4	1/2	3/4	1	1/4	1/2	3/4	1	1/4	1/2	3/4	1
1/4	1,625.09	1,301.35	977.61	653.87	330.13	0	1/4	1/2	3/4	1	1/4	1/2	3/4	1	1/4	1/2	3/4	1	1/4
1/2	1,301.35	977.61	653.87	330.13	0	1/4	1/2	3/4	1	1/4	1/2	3/4	1	1/4	1/2	3/4	1	1/4	1/2
3/4	977.61	653.87	330.13	0	1/4	1/2	3/4	1	1/4	1/2	3/4	1	1/4	1/2	3/4	1	1/4	1/2	3/4
1	653.87	330.13	0	1/4	1/2	3/4	1	1/4	1/2	3/4	1	1/4	1/2	3/4	1	1/4	1/2	3/4	1
1/4	330.13	0	1/4	1/2	3/4	1	1/4	1/2	3/4	1	1/4	1/2	3/4	1	1/4	1/2	3/4	1	1/4
1/2	0	1/4	1/2	3/4	1	1/4	1/2	3/4	1	1/4	1/2	3/4	1	1/4	1/2	3/4	1	1/4	1/2
3/4	0	1/4																	

CERTIFIED CHARTER 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 ONE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF 70 FT.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH HERMETIC CLOSED GAUGING DEVICES. GAUGES MUST BE IMMEDIATELY LOCATED 20" OFF CENTERLINE AND 14' 00" FORWARD OF AFT BULKHEAD.

**PRECISION MEASUREMENT
& ANALYSIS, INC.**

P.O. Box 2092

land, Texas 77588

<http://www.pmacorp.net>

1-800-441-2222



BARGE "KIRBY 28040"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-10 1/2"

N	10 FT.	11 FT.	12 FT.	13 FT.	14 FT.	15 FT.	16 FT.	17 FT.	18 FT.	19 FT.
0	2,654.83	0	1,878.03	0	1,101.23	0	340.13	0	0	0
1/4	2,648.74	1/4	1,869.94	1/4	1,093.14	1/4	332.04	1/4	1/4	1/4
1/2	2,638.65	1/2	1,861.85	1/2	1,085.04	1/2	323.95	1/2	1/2	1/2
3/4	2,630.56	3/4	1,853.76	3/4	1,076.95	3/4	315.86	3/4	3/4	3/4
1	2,622.47	1	1,845.66	1	1,068.86	1	307.77	1	1	1
1/4	2,614.38	1/4	1,837.57	1/4	1,060.77	1/4	299.68	1/4	1/4	1/4
1/2	2,606.28	1/2	1,829.48	1/2	1,052.68	1/2	291.59	1/2	1/2	1/2
3/4	2,598.19	3/4	1,821.39	3/4	1,044.59	3/4	283.50	3/4	3/4	3/4
2	2,590.10	2	1,813.30	2	1,036.49	2	275.41	2	2	2
1/4	2,582.01	1/4	1,805.21	1/4	1,028.40	1/4	267.31	1/4	1/4	1/4
1/2	2,573.92	1/2	1,797.11	1/2	1,020.31	1/2	259.22	1/2	1/2	1/2
3/4	2,565.83	3/4	1,789.02	3/4	1,012.22	3/4	251.13	3/4	3/4	3/4
3	2,557.73	3	1,780.93	3	1,004.13	3	243.04	3	3	3
1/4	2,549.64	1/4	1,772.84	1/4	996.04	1/4	234.95	1/4	1/4	1/4
1/2	2,541.55	1/2	1,764.75	1/2	987.94	1/2	226.86	1/2	1/2	1/2
3/4	2,533.46	3/4	1,756.66	3/4	979.85	3/4	218.77	3/4	3/4	3/4
4	2,525.37	4	1,748.56	4	971.76	4	210.68	4	4	4
1/4	2,517.28	1/4	1,740.47	1/4	963.67	1/4	202.59	1/4	1/4	1/4
1/2	2,509.18	1/2	1,732.38	1/2	955.58	1/2	194.50	1/2	1/2	1/2
3/4	2,501.09	3/4	1,724.29	3/4	947.49	3/4	186.41	3/4	3/4	3/4
5	2,493.00	5	1,716.20	5	939.40	5	178.32	5	5	5
1/4	2,484.91	1/4	1,708.11	1/4	931.31	1/4	170.23	1/4	1/4	1/4
1/2	2,476.82	1/2	1,700.01	1/2	923.22	1/2	162.13	1/2	1/2	1/2
3/4	2,468.73	3/4	1,691.92	3/4	915.13	3/4	154.04	3/4	3/4	3/4
6	2,460.63	6	1,683.83	6	907.04	6	145.95	6	6	6
1/4	2,452.54	1/4	1,675.74	1/4	900.07	1/4	137.86	1/4	1/4	1/4
1/2	2,444.45	1/2	1,667.65	1/2	892.08	1/2	129.77	1/2	1/2	1/2
3/4	2,436.36	3/4	1,659.56	3/4	884.09	3/4	121.68	3/4	3/4	3/4
7	2,428.27	7	1,651.46	7	876.00	7	113.59	7	7	7
1/4	2,420.18	1/4	1,643.37	1/4	868.09	1/4	105.50	1/4	1/4	1/4
1/2	2,412.08	1/2	1,635.28	1/2	860.00	1/2	97.41	1/2	1/2	1/2
3/4	2,403.99	3/4	1,627.19	3/4	852.06	3/4	89.32	3/4	3/4	3/4
8	2,395.90	8	1,619.10	8	844.07	8	81.23	8	8	8
1/4	2,387.81	1/4	1,611.01	1/4	836.08	1/4	73.14	1/4	1/4	1/4
1/2	2,379.72	1/2	1,602.91	1/2	828.09	1/2	65.04	1/2	1/2	1/2
3/4	2,371.62	3/4	1,594.82	3/4	820.00	3/4	56.95	3/4	3/4	3/4
9	2,363.53	9	1,586.73	9	812.01	9	48.86	9	9	9
1/4	2,355.44	1/4	1,578.64	1/4	804.02	1/4	40.77	1/4	1/4	1/4
1/2	2,347.35	1/2	1,570.55	1/2	796.03	1/2	32.68	1/2	1/2	1/2
3/4	2,339.26	3/4	1,562.45	3/4	788.04	3/4	24.59	3/4	3/4	3/4
10	2,331.17	10	1,554.36	10	780.05	10	16.50	10	10	10
1/4	2,323.07	1/4	1,546.27	1/4	772.06	1/4	8.41	1/4	1/4	1/4
1/2	2,314.98	1/2	1,538.18	1/2	764.07	1/2	0.32	1/2	1/2	1/2
3/4	2,306.89	3/4	1,530.09	3/4	756.08	3/4		3/4	3/4	3/4
11	2,298.80	11	1,522.00	11	748.09	11		11	11	11
1/4	2,290.71	1/4	1,513.91	1/4	740.10	1/4		1/4	1/4	1/4
1/2	2,282.62	1/2	1,505.81	1/2	732.11	1/2		1/2	1/2	1/2
3/4	2,274.52	3/4	1,497.72	3/4	724.12	3/4		3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/24/2005 CL - SW
CALCULATED: 06/24/2005 CL
PRINTED: 06/24/2005 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2005

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

Paul J. Pearson



BARGE "KIRBY 28040"

3 PORT

ULLAGE TABLE

GAUGE HEIGHT 16'-10 1/4"

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS											
0 FT.			1 FT.			2 FT.			3 FT.		
IN	N	1/4	IN	N	1/4	IN	N	1/4	IN	N	1/4
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
1/2	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
1	1	1	1	1	1	1	1	1	1	1	1
1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 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
2	2	2	2	2	2	2	2	2	2	2	2
1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 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	3	3	3	3	3	3	3	3	3	3	3
1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 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
4	4	4	4	4	4	4	4	4	4	4	4
1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 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
5	5	5	5	5	5	5	5	5	5	5	5
1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 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
6	6	6	6	6	6	6	6	6	6	6	6
1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 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
7	7	7	7	7	7	7	7	7	7	7	7
1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 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
8	8	8	8	8	8	8	8	8	8	8	8
1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 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
9	9	9	9	9	9	9	9	9	9	9	9
1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 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
10	10	10	10	10	10	10	10	10	10	10	10
1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 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
11	11	11	11	11	11	11	11	11	11	11	11
1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 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
12	12	12	12	12	12	12	12	12	12	12	12
1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 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
13	13	13	13	13	13	13	13	13	13	13	13
1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 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
14	14	14	14	14	14	14	14	14	14	14	14
1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 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
15	15	15	15	15	15	15	15	15	15	15	15
1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 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
16	16	16	16	16	16	16	16	16	16	16	16
1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 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
17	17	17	17	17	17	17	17	17	17	17	17
1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 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
18	18	18	18	18	18	18	18	18	18	18	18
1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 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
19	19	19	19	19	19	19	19	19	19	19	19
1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 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
20	20	20	20	20	20	20	20	20	20	20	20
1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 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
21	21	21	21	21	21	21	21	21	21	21	21
1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 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
22	22	22	22	22	22	22	22	22	22	22	22
1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 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
23	23	23	23	23	23	23	23	23	23	23	23
1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2					



BARGE "KIRBY 28040"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE 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	N	10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
		0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
0	0	2,478.43	0	2,116.78	0	1,755.13	0	1,393.48	0	1,032.10	0	670.98	0	309.34	0	0	0	0	0	0	0
1/4	1/4	2,470.90	1/4	2,109.25	1/4	1,747.60	1/4	1,385.94	1/4	1,024.59	1/4	663.45	1/4	301.81	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	2,463.36	1/2	2,101.71	1/2	1,740.06	1/2	1,378.41	1/2	1,017.08	1/2	655.91	1/2	294.28	1/2	3/4	3/4	3/4	3/4	3/4	3/4
3/4	3/4	2,455.83	3/4	2,094.18	3/4	1,732.53	3/4	1,370.88	3/4	1,009.57	3/4	648.38	3/4	286.74	3/4	1	1	1	1	1	1
1	1	2,448.30	1	2,086.64	1	1,724.99	1	1,363.34	1	1,002.06	1	640.85	1	279.21	1	1	1	1	1	1	1
1/4	1/4	2,440.76	1/4	2,079.11	1/4	1,717.46	1/4	1,355.81	1/4	994.55	1/4	633.31	1/4	271.67	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	2,433.23	1/2	2,071.58	1/2	1,709.92	1/2	1,348.27	1/2	987.04	1/2	625.78	1/2	264.14	1/2	2	2	2	2	2	2
3/4	3/4	2,425.69	3/4	2,064.04	3/4	1,702.39	3/4	1,340.74	3/4	979.50	3/4	618.24	3/4	256.61	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	2	2,418.16	2	2,056.51	2	1,694.86	2	1,333.20	2	972.03	2	610.71	2	249.07	2	4	4	4	4	4	4
1/4	1/4	2,410.62	1/4	2,048.97	1/4	1,687.32	1/4	1,325.67	1/4	964.52	1/4	603.17	1/4	241.54	1/4	5	5	5	5	5	5
1/2	1/2	2,403.09	1/2	2,041.44	1/2	1,679.79	1/2	1,318.14	1/2	957.01	1/2	595.64	1/2	234.00	1/2	6	6	6	6	6	6
3/4	3/4	2,395.55	3/4	2,033.90	3/4	1,672.25	3/4	1,310.60	3/4	949.50	3/4	588.11	3/4	226.47	3/4	7	7	7	7	7	7
3	3	2,388.02	3	2,026.37	3	1,664.72	3	1,303.07	3	941.99	3	580.57	3	218.94	3	8	8	8	8	8	8
1/4	1/4	2,380.49	1/4	2,018.83	1/4	1,657.18	1/4	1,295.53	1/4	934.48	1/4	573.04	1/4	211.40	1/4	9	9	9	9	9	9
1/2	1/2	2,372.95	1/2	2,011.30	1/2	1,649.65	1/2	1,288.00	1/2	926.97	1/2	565.50	1/2	203.87	1/2	10	10	10	10	10	10
3/4	3/4	2,365.42	3/4	2,003.77	3/4	1,642.11	3/4	1,280.46	3/4	919.46	3/4	557.97	3/4	196.33	3/4	11	11	11	11	11	11
4	4	2,357.88	4	1,996.23	4	1,634.58	4	1,272.93	4	911.95	4	550.44	4	188.80	4	12	12	12	12	12	12
1/4	1/4	2,350.35	1/4	1,988.70	1/4	1,627.05	1/4	1,265.39	1/4	904.44	1/4	542.90	1/4	181.27	1/4	13	13	13	13	13	13
1/2	1/2	2,342.81	1/2	1,981.16	1/2	1,619.51	1/2	1,257.86	1/2	896.93	1/2	535.37	1/2	173.73	1/2	14	14	14	14	14	14
3/4	3/4	2,335.28	3/4	1,973.63	3/4	1,611.98	3/4	1,250.33	3/4	889.42	3/4	527.83	3/4	166.20	3/4	15	15	15	15	15	15
5	5	2,327.74	5	1,966.09	5	1,604.44	5	1,242.79	5	881.91	5	520.30	5	158.66	5	16	16	16	16	16	16
1/4	1/4	2,320.21	1/4	1,958.56	1/4	1,596.91	1/4	1,235.26	1/4	874.40	1/4	512.77	1/4	151.13	1/4	17	17	17	17	17	17
1/2	1/2	2,312.68	1/2	1,951.02	1/2	1,589.37	1/2	1,227.72	1/2	866.87	1/2	505.23	1/2	143.59	1/2	18	18	18	18	18	18
3/4	3/4	2,305.14	3/4	1,943.49	3/4	1,581.84	3/4	1,220.19	3/4	859.33	3/4	497.70	3/4	136.06	3/4	19	19	19	19	19	19
6	6	2,297.61	6	1,935.96	6	1,574.30	6	1,212.65	6	851.80	6	490.16	6	128.53	6	20	20	20	20	20	20
1/4	1/4	2,290.07	1/4	1,928.42	1/4	1,566.77	1/4	1,205.12	1/4	844.27	1/4	482.63	1/4	120.99	1/4	21	21	21	21	21	21
1/2	1/2	2,282.54	1/2	1,920.89	1/2	1,559.24	1/2	1,197.58	1/2	836.73	1/2	475.09	1/2	113.46	1/2	22	22	22	22	22	22
3/4	3/4	2,275.00	3/4	1,913.35	3/4	1,551.70	3/4	1,190.05	3/4	829.20	3/4	467.56	3/4	105.92	3/4	23	23	23	23	23	23
7	7	2,267.47	7	1,905.82	7	1,544.17	7	1,182.52	7	821.66	7	460.03	7	98.39	7	24	24	24	24	24	24
1/4	1/4	2,259.94	1/4	1,898.28	1/4	1,536.63	1/4	1,174.98	1/4	814.13	1/4	452.49	1/4	90.86	1/4	25	25	25	25	25	25
1/2	1/2	2,252.40	1/2	1,890.75	1/2	1,529.10	1/2	1,167.45	1/2	806.60	1/2	444.96	1/2	83.32	1/2	26	26	26	26	26	26
3/4	3/4	2,244.87	3/4	1,883.22	3/4	1,521.56	3/4	1,159.91	3/4	799.06	3/4	437.42	3/4	75.79	3/4	27	27	27	27	27	27
8	8	2,237.33	8	1,875.68	8	1,514.03	8	1,152.38	8	791.53	8	429.89	8	68.26	8	28	28	28	28	28	28
1/4	1/4	2,229.80	1/4	1,868.15	1/4	1,506.50	1/4	1,144.84	1/4	783.99	1/4	422.36	1/4	60.72	1/4	29	29	29	29	29	29
1/2	1/2	2,222.26	1/2	1,860.61	1/2	1,498.96	1/2	1,137.31	1/2	776.46	1/2	414.82	1/2	54.13	1/2	30	30	30	30	30	30
3/4	3/4	2,214.73	3/4	1,853.08	3/4	1,491.43	3/4	1,129.78	3/4	768.92	3/4	407.29	3/4	47.53	3/4	31	31	31	31	31	31
9	9	2,207.19	9	1,845.54	9	1,483.89	9	1,122.24	9	761.39	9	399.75	9	40.94	9	32	32	32	32	32	32
1/4	1/4	2,199.66	1/4	1,838.01	1/4	1,476.36	1/4	1,114.71	1/4	753.86	1/4	392.22	1/4	34.35	1/4	33	33	33	33	33	33
1/2	1/2	2,192.13	1/2	1,830.47	1/2	1,468.82	1/2	1,107.20	1/2	746.32	1/2	384.69	1/2	29.64	1/2	34	34	34	34	34	34
3/4	3/4	2,184.59	3/4	1,822.94	3/4	1,461.29	3/4	1,099.69	3/4	738.79	3/4	377.15	3/4	24.93	3/4	35	35	35	35	35	35
10	10	2,177.06	10	1,815.41	10	1,453.75	10	1,092.18	10	731.25	10	369.62	10	20.22	10	36	36	36	36	36	36
1/4	1/4	2,169.52	1/4	1,807.87	1/4	1,446.22	1/4	1,084.67	1/4	723.72	1/4	362.08	1/4	15.51	1/4	37	37	37	37	37	37
1/2	1/2	2,161.99	1/2	1,800.34	1/2	1,438.69	1/2	1,077.16	1/2	716.19	1/2	354.55	1/2	10.00	1/2	38	38	38	38	38	38
3/4	3/4	2,154.45	3/4	1,792.80	3/4	1,431.15	3/4	1,069.65	3/4	708.65	3/4	347.02	3/4	5.00	3/4	39	39	39	39	39	39
11	11	2,146.92	11	1,785.27	11	1,423.62	11	1,062.14	11	701.12	11	339.48	11	0.00	11	40	40	40	40	40	40
1/4	1/4	2,139.38	1/4	1,777.73	1/4	1,416.08	1/4	1,054.63	1/4	693.58	1/4	331.95	1/4	0.00	1/4	41	41	41	41	41	41
1/2	1/2	2,131.85	1/2	1,770.20	1/2	1,408.55	1/2	1,047.12	1/2	686.05	1/2	324.41	1/2	0.00	1/2	42	42	42	42	42	42
3/4	3/4	2,124.32	3/4	1,762.66	3/4	1,401.01	3/4	1,039.61	3/4	678.52	3/4	316.88	3/4	0.00	3/4	43	43	43	43	43	43

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/24/2005 CL - SW
CALCULATED: 06/24/2005 CL
PRINTED: 06/24/2005 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2005

PRECISION MEASUREMENT
& ANALYSIS, INC.

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

Paul J. Mac

3 STBD

ULLAGE TABLE

GAUGE HEIGHT 16'-10 1/2"

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

[illegible]

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY:

LARGE 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 III I AGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.

CAPACITY TABLE ONLY APPLIES TO VEHICLE GAGES TAKEN WITH THERMISTOR GAGES SAVING TIME AND
CANCEL POINT. THERMISTOR LOCATED 12" OR 18" OFF CENTERLINE AND 10'-06" FORWARD OF AFT BULKHEAD.

**PRECISION MEASUREMENT
& ANALYSIS, INC.**

P.O. Box 2092

Standard Texas 77588
7202 YNB :011

<http://www.maccos.net>
 Fax: 1-800-233-1111

1011:21 1022:11 1033:11 1044:11 1055:11 1066:11 1077:11 1088:11 1099:11 1110:11 1121:11 1132:11 1143:11 1154:11 1165:11 1176:11 1187:11 1198:11 1209:11 1220:11 1231:11 1242:11 1253:11 1264:11 1275:11 1286:11 1297:11 1308:11 1319:11 1330:11 1341:11 1352:11 1363:11 1374:11 1385:11 1396:11 1407:11 1418:11 1429:11 1440:11 1451:11 1462:11 1473:11 1484:11 1495:11 1506:11 1517:11 1528:11 1539:11 1550:11 1561:11 1572:11 1583:11 1594:11 1605:11 1616:11 1627:11 1638:11 1649:11 1660:11 1671:11 1682:11 1693:11 1704:11 1715:11 1726:11 1737:11 1748:11 1759:11 1770:11 1781:11 1792:11 1803:11 1814:11 1825:11 1836:11 1847:11 1858:11 1869:11 1880:11 1891:11 1902:11 1913:11 1924:11 1935:11 1946:11 1957:11 1968:11 1979:11 1990:11 2001:11 2012:11 2023:11 2034:11 2045:11 2056:11 2067:11 2078:11 2089:11 2100:11 2111:11 2122:11 2133:11 2144:11 2155:11 2166:11 2177:11 2188:11 2199:11 2210:11 2221:11 2232:11 2243:11 2254:11 2265:11 2276:11 2287:11 2298:11 2309:11 2320:11 2331:11 2342:11 2353:11 2364:11 2375:11 2386:11 2397:11 2408:11 2419:11 2430:11 2441:11 2452:11 2463:11 2474:11 2485:11 2496:11 2507:11 2518:11 2529:11 2540:11 2551:11 2562:11 2573:11 2584:11 2595:11 2606:11 2617:11 2628:11 2639:11 2650:11 2661:11 2672:11 2683:11 2694:11 2705:11 2716:11 2727:11 2738:11 2749:11 2760:11 2771:11 2782:11 2793:11 2804:11 2815:11 2826:11 2837:11 2848:11 2859:11 2870:11 2881:11 2892:11 2903:11 2914:11 2925:11 2936:11 2947:11 2958:11 2969:11 2980:11 2991:11 3002:11 3013:11 3024:11 3035:11 3046:11 3057:11 3068:11 3079:11 3090:11 3101:11 3112:11 3123:11 3134:11 3145:11 3156:11 3167:11 3178:11 3189:11 3200:11 3211:11 3222:11 3233:11 3244:11 3255:11 3266:11 3277:11 3288:11 3299:11 3310:11 3321:11 3332:11 3343:11 3354:11 3365:11 3376:11 3387:11 3398:11 3409:11 3420:11 3431:11 3442:11 3453:11 3464:11 3475:11 3486:11 3497:11 3508:11 3519:11 3530:11 3541:11 3552:11 3563:11 3574:11 3585:11 3596:11 3607:11 3618:11 3629:11 3640:11 3651:11 3662:11 3673:11 3684:11 3695:11 3706:11 3717:11 3728:11 3739:11 3750:11 3761:11 3772:11 3783:11 3794:11 3805:11 3816:11 3827:11 3838:11 3849:11 3860:11 3871:11 3882:11 3893:11 3904:11 3915:11 3926:11 3937:11 3948:11 3959:11 3970:11 3981:11 3992:11 4003:11 4014:11 4025:11 4036:11 4047:11 4058:11 4069:11 4080:11 4091:11 4102:11 4113:11 4124:11 4135:11 4146:11 4157:11 4168:11 4179:11 4190:11 4201:11 4212:11 4223:11 4234:11 4245:11 4256:11 4267:11 4278:11 4289:11 4300:11 4311:11 4322:11 4333:11 4344:11 4355:11 4366:11 4377:11 4388:11 4399:11 4410:11 4421:11 4432:11 4443:11 4454:11 4465:11 4476:11 4487:11 4498:11 4509:11 4520:11 4531:11 4542:11 4553:11 4564:11 4575:11 4586:11 4597:11 4608:11 4619:11 4630:11 4641:11 4652:11 4663:11 4674:11 4685:11 4696:11 4707:11 4718:11 4729:11 4740:11 4751:11 4762:11 4773:11 4784:11 4795:11 4806:11 4817:11 4828:11 4839:11 4850:11 4861:11 4872:11 4883:11 4894:11 4905:11 4916:11 4927:11 4938:11 4949:11 4960:11 4971:11 4982:11 4993:11 5004:11 5015:11 5026:11 5037:11 5048:11 5059:11 5070:11 5081:11 5092:11 5103:11 5114:11 5125:11 5136:11 5147:11 5158:11 5169:11 5180:11 5191:11 5202:11 5213:11 5224:11 5235:11 5246:11 5257:11 5268:11 5279:11 5290:11 5301:11 5312:11 5323:11 5334:11 5345:11 5356:11 5367:11 5378:11 5389:11 5400:11 5411:11 5422:11 5433:11 5444:11 5455:11 5466:11 5477:11 5488:11 5499:11 5510:11 5521:11 5532:11 5543:11 5554:11 5565:11 5576:11 5587:11 5598:11 5609:11 5620:11 5631:11 5642:11 5653:11 5664:11 5675:11 5686:11 5697:11 5708:11 5719:11 5730:11 5741:11 5752:11 5763:11 5774:11 5785:11 5796:11 5807:11 5818:11 5829:11 5840:11 5851:11 5862:11 5873:11 5884:11 5895:11 5906:11 5917:11 5928:11 5939:11 5950:11 5961:11 5972:11 5983:11 5994:11 6005:11 6016:11 6027:11 6038:11 6049:11 6060:11 6071:11 6082:11 6093:11 6104:11 6115:11 6126:11 6137:11 6148:11 6159:11 6170:11 6181:11 6192:11 6203:11 6214:11 6225:11 6236:11 6247:11 6258:11 6269:11 6280:11 6291:11 6302:11 6313:11 6324:11 6335:11 6346:11 6357:11 6368:11 6379:11 6390:11 6401:11 6412:11 6423:11 6434:11 6445:11 6456:11 6467:11 6478:11 6489:11 6500:11 6511:11 6522:11 6533:11 6544:11 6555:11 6566:11 6577:11 6588:11 6599:11 6610:11 6621:11 6632:1



BARGE "KIRBY 28040"

3 STBD

ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS																		GAUGE HEIGHT 16'-10 1/2"			
IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.		
0	2,467.75	0	2,108.41	0	1,748.01	0	1,386.70	0	1,028.89	0	674.73	0	317.07	0		0		0			
1/4	2,460.23	1/4	2,098.88	1/4	1,740.55	1/4	1,379.17	1/4	1,021.50	1/4	667.36	1/4	309.54	1/4		1/4		1/4			
1/2	2,452.70	1/2	2,091.35	1/2	1,733.08	1/2	1,371.64	1/2	1,014.12	1/2	660.00	1/2	302.01	1/2		1/2		1/2			
3/4	2,445.18	3/4	2,083.89	3/4	1,725.55	3/4	1,364.11	3/4	1,006.73	3/4	652.64	3/4	294.48	3/4		3/4		3/4			
1	2,437.65	1	2,076.43	1	1,718.02	1	1,356.58	1	999.35	1	645.28	1	286.95	1		1		1			
1 1/4	2,430.12	1 1/4	2,068.96	1 1/4	1,710.49	1 1/4	1,349.05	1 1/4	991.96	1 1/4	637.92	1 1/4	279.42	1 1/4		1 1/4		1 1/4			
1 1/2	2,422.60	1 1/2	2,061.50	1 1/2	1,702.96	1 1/2	1,341.52	1 1/2	984.57	1 1/2	630.56	1 1/2	271.89	1 1/2		1 1/2		1 1/2			
3/2	2,415.07	3/2	2,054.03	3/2	1,695.43	3/2	1,333.99	3/2	977.19	3/2	623.20	3/2	264.36	3/2		3/2		3/2			
2	2,407.55	2	2,046.57	2	1,687.90	2	1,326.46	2	969.80	2	615.83	2	256.83	2		2		2			
2 1/4	2,400.02	2 1/4	2,039.11	2 1/4	1,680.37	2 1/4	1,318.93	2 1/4	962.41	2 1/4	608.47	2 1/4	249.30	2 1/4		2 1/4		2 1/4			
2 1/2	2,392.50	2 1/2	2,031.64	2 1/2	1,672.84	2 1/2	1,311.40	2 1/2	955.03	2 1/2	601.11	2 1/2	241.76	2 1/2		2 1/2		2 1/2			
3/2	2,384.97	3/2	2,024.18	3/2	1,665.31	3/2	1,303.87	3/2	947.64	3/2	593.75	3/2	234.23	3/2		3/2		3/2			
3	2,377.45	3	2,016.71	3	1,657.78	3	1,296.34	3	940.26	3	586.39	3	226.70	3		3		3			
3 1/4	2,369.92	3 1/4	2,009.25	3 1/4	1,650.25	3 1/4	1,288.81	3 1/4	932.87	3 1/4	579.03	3 1/4	219.17	3 1/4		3 1/4		3 1/4			
3 1/2	2,362.39	3 1/2	2,001.79	3 1/2	1,642.72	3 1/2	1,281.28	3 1/2	925.48	3 1/2	571.67	3 1/2	211.64	3 1/2		3 1/2		3 1/2			
3/2	2,354.87	3/2	1,994.32	3/2	1,635.19	3/2	1,273.75	3/2	918.10	3/2	564.29	3/2	204.10	3/2		3/2		3/2			
4	2,347.34	4	1,986.86	4	1,627.66	4	1,266.22	4	910.71	4	556.92	4	196.55	4		4		4			
4 1/4	2,339.82	4 1/4	1,979.39	4 1/4	1,620.13	4 1/4	1,258.69	4 1/4	903.32	4 1/4	549.54	4 1/4	189.01	4 1/4		4 1/4		4 1/4			
4 1/2	2,332.29	4 1/2	1,971.93	4 1/2	1,612.60	4 1/2	1,251.16	4 1/2	895.94	4 1/2	542.17	4 1/2	181.47	4 1/2		4 1/2		4 1/2			
3/2	2,324.77	3/2	1,964.47	3/2	1,605.07	3/2	1,243.63	3/2	888.55	3/2	534.78	3/2	173.93	3/2		3/2		3/2			
5	2,317.24	5	1,957.00	5	1,597.54	5	1,236.10	5	881.17	5	527.39	5	166.38	5		5		5			
5 1/4	2,309.72	5 1/4	1,949.54	5 1/4	1,590.01	5 1/4	1,228.57	5 1/4	873.78	5 1/4	520.00	5 1/4	158.84	5 1/4		5 1/4		5 1/4			
5 1/2	2,302.19	5 1/2	1,942.07	5 1/2	1,582.48	5 1/2	1,221.04	5 1/2	866.39	5 1/2	512.61	5 1/2	151.30	5 1/2		5 1/2		5 1/2			
3/2	2,294.66	3/2	1,934.61	3/2	1,574.95	3/2	1,213.55	3/2	859.00	3/2	505.14	3/2	143.76	3/2		3/2		3/2			
6	2,287.13	6	1,927.15	6	1,567.42	6	1,206.26	6	851.61	6	497.68	6	136.21	6		6		6			
6 1/4	2,279.60	6 1/4	1,919.68	6 1/4	1,559.89	6 1/4	1,198.86	6 1/4	844.22	6 1/4	490.22	6 1/4	128.67	6 1/4		6 1/4		6 1/4			
6 1/2	2,272.07	6 1/2	1,912.22	6 1/2	1,552.36	6 1/2	1,191.47	6 1/2	836.82	6 1/2	482.76	6 1/2	121.13	6 1/2		6 1/2		6 1/2			
3/2	2,264.54	3/2	1,904.75	3/2	1,544.83	3/2	1,184.08	3/2	829.43	3/2	475.23	3/2	113.59	3/2		3/2		3/2			
7	2,257.01	7	1,897.29	7	1,537.30	7	1,176.68	7	822.04	7	467.69	7	106.04	7		7		7			
7 1/4	2,249.48	7 1/4	1,889.83	7 1/4	1,529.77	7 1/4	1,169.29	7 1/4	814.66	7 1/4	460.16	7 1/4	98.50	7 1/4		7 1/4		7 1/4			
7 1/2	2,241.95	7 1/2	1,882.36	7 1/2	1,522.24	7 1/2	1,161.90	7 1/2	807.27	7 1/2	452.63	7 1/2	90.96	7 1/2		7 1/2		7 1/2			
3/2	2,234.42	3/2	1,874.90	3/2	1,514.71	3/2	1,154.50	3/2	799.89	3/2	445.10	3/2	83.41	3/2		3/2		3/2			
8	2,226.89	8	1,867.43	8	1,507.18	8	1,147.11	8	792.52	8	437.57	8	75.87	8		8		8			
8 1/4	2,219.36	8 1/4	1,859.97	8 1/4	1,499.65	8 1/4	1,139.72	8 1/4	785.15	8 1/4	430.04	8 1/4	68.33	8 1/4		8 1/4		8 1/4			
8 1/2	2,211.83	8 1/2	1,852.51	8 1/2	1,492.12	8 1/2	1,132.32	8 1/2	777.77	8 1/2	422.51	8 1/2	60.79	8 1/2		8 1/2		8 1/2			
3/2	2,204.30	3/2	1,845.04	3/2	1,484.59	3/2	1,124.93	3/2	770.41	3/2	414.98	3/2	54.19	3/2		3/2		3/2			
9	2,196.77	9	1,837.58	9	1,477.06	9	1,117.54	9	763.05	9	407.45	9	47.58	9		9		9			
9 1/4	2,189.24	9 1/4	1,830.11	9 1/4	1,469.53	9 1/4	1,110.15	9 1/4	755.69	9 1/4	399.92	9 1/4	40.98	9 1/4		9 1/4		9 1/4			
9 1/2	2,181.71	9 1/2	1,822.65	9 1/2	1,462.00	9 1/2	1,102.75	9 1/2	748.33	9 1/2	392.38	9 1/2	34.38	9 1/2		9 1/2		9 1/2			
3/2	2,174.18	3/2	1,815.19	3/2	1,454.47	3/2	1,095.37	3/2	740.97	3/2	384.85	3/2	29.67	3/2		3/2		3/2			
10	2,166.65	10	1,807.72	10	1,446.94	10	1,087.98	10	733.61	10	377.32	10	24.96	10		10		10			
10 1/4	2,159.12	10 1/4	1,800.26	10 1/4	1,439.41	10 1/4	1,080.59	10 1/4	726.25	10 1/4	369.79	10 1/4	20.24	10 1/4		10 1/4		10 1/4			
10 1/2	2,151.59	10 1/2	1,792.79	10 1/2	1,431.88	10 1/2	1,073.21	10 1/2	718.89	10 1/2	362.26	10 1/2	15.53	10 1/2		10 1/2		10 1/2			
3/2	2,144.06	3/2	1,785.33	3/2	1,424.35	3/2	1,065.82	3/2	711.53	3/2	354.73	3/2	11	3/2		3/2		3/2			
11	2,136.53	11	1,777.87	11	1,416.82	11	1,058.43	11	704.17	11	347.20	11	11	11		11		11			
11 1/4	2,129.00	11 1/4	1,770.40	11 1/4	1,409.29	11 1/4	1,051.05	11 1/4	696.81	11 1/4	339.67	11 1/4	11	11 1/4		11 1/4		11 1/4			
11 1/2	2,121.47	11 1/2	1,762.94	11 1/2	1,401.76	11 1/2	1,043.66	11 1/2	689.45	11 1/2	332.14	11 1/2	12	11 1/2		11 1/2		11 1/2			
3/2	2,113.94	3/2	1,755.47	3/2	1,394.23	3/2	1,036.28	3/2	682.09	3/2	324.61	3/2	12	3/2		3/2		3/2			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/24/2005 CL - SW
CALCULATED: 06/24/2005 CL
PRINTED: 06/24/2005 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2005

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