



BARGE "KIRBY 10230"

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 CENTER	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-5/8	- 00-5/8	00-3/4	- 00-3/4
2 CENTER	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-1/2	- 00-1/2
3 CENTER	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 CENTER IS - 00-1/4"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 CENTER, THE TRIM CORRECTED ULLAGE IS 3'-11 3/4"

LENGTH BETWEEN DRAFT MARKS: 163'-06"

May 23, 2012

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

<http://www.pmacorp.net>



BARGE "KIRBY 10230"

1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 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	IN	OUT
0		0		0		0	3,769.30	0	3,539.57	0	3,286.20	0	3,032.83	0	2,770.23	0	2,474.02	0	2,177.18		
1/4		1/4		1/4		1/4	3,768.26	1/4	3,534.29	1/4	3,280.92	1/4	3,027.55	1/4	2,764.06	1/4	2,467.84	1/4	2,171.00		
1/2		1/2		1/2		1/2	3,767.23	1/2	3,529.01	1/2	3,275.64	1/2	3,022.27	1/2	2,757.90	1/2	2,461.66	1/2	2,164.81		
3/4		3/4		3/4		3/4	3,764.12	3/4	3,523.73	3/4	3,270.36	3/4	3,017.00	3/4	2,751.73	3/4	2,455.47	3/4	2,158.63		
1		1		1		1	3,761.02	1	3,518.45	1	3,265.09	1	3,011.72	1	2,745.57	1	2,449.29	1	2,152.45		
1/4		1/4		1/4		1/4	3,757.91	1/4	3,513.18	1/4	3,259.81	1/4	3,006.44	1/4	2,739.40	1/4	2,443.10	1/4	2,146.26		
1/2		1/2		1/2		1/2	3,754.81	1/2	3,507.90	1/2	3,254.53	1/2	3,001.16	1/2	2,733.24	1/2	2,436.92	1/2	2,140.08		
3/4		3/4		3/4		3/4	3,750.65	3/4	3,502.62	3/4	3,249.25	3/4	2,995.88	3/4	2,727.07	3/4	2,430.73	3/4	2,133.89		
2		2		2		2	3,746.50	2	3,497.34	2	3,243.97	2	2,990.60	2	2,720.91	2	2,424.55	2	2,127.71		
1/4		1/4		1/4		1/4	3,742.34	1/4	3,492.06	1/4	3,238.69	1/4	2,985.33	1/4	2,714.74	1/4	2,418.37	1/4	2,121.52		
1/2		1/2		1/2		1/2	3,738.18	1/2	3,486.78	1/2	3,233.41	1/2	2,980.05	1/2	2,708.57	1/2	2,412.18	1/2	2,115.34		
3/4		3/4		3/4		3/4	3,733.04	3/4	3,481.50	3/4	3,228.14	3/4	2,974.77	3/4	2,702.41	3/4	2,406.00	3/4	2,109.16		
3		3		3		3	3,727.89	3	3,476.23	3	3,222.86	3	2,969.49	3	2,696.24	3	2,399.81	3	2,102.97		
1/4		1/4		1/4		1/4	3,722.75	1/4	3,470.95	1/4	3,217.58	1/4	2,964.21	1/4	2,690.08	1/4	2,393.63	1/4	2,096.79		
1/2		1/2		1/2		1/2	3,717.61	1/2	3,465.67	1/2	3,212.30	1/2	2,958.93	1/2	2,683.91	1/2	2,387.44	1/2	2,090.60		
3/4		3/4		3/4		3/4	3,712.43	3/4	3,460.39	3/4	3,207.02	3/4	2,953.65	3/4	2,677.75	3/4	2,381.26	3/4	2,084.42		
4		4		4		4	3,707.25	4	3,455.11	4	3,201.74	4	2,948.38	4	2,671.58	4	2,375.08	4	2,078.23		
1/4		1/4		1/4		1/4	3,702.07	1/4	3,449.83	1/4	3,196.47	1/4	2,943.10	1/4	2,665.42	1/4	2,368.89	1/4	2,072.05		
1/2		1/2		1/2		1/2	3,696.89	1/2	3,444.55	1/2	3,191.19	1/2	2,937.82	1/2	2,659.25	1/2	2,362.71	1/2	2,065.87		
3/4		3/4		3/4		3/4	3,691.69	3/4	3,439.28	3/4	3,185.91	3/4	2,932.54	3/4	2,653.08	3/4	2,356.52	3/4	2,059.68		
5		5		5		5	3,686.50	5	3,434.00	5	3,180.63	5	2,927.26	5	2,646.92	5	2,350.34	5	2,053.50		
1/4		1/4		1/4		1/4	3,681.31	1/4	3,428.72	1/4	3,175.35	1/4	2,921.98	1/4	2,640.75	1/4	2,344.16	1/4	2,047.31		
1/2		1/2		1/2		1/2	3,676.11	1/2	3,423.44	1/2	3,170.07	1/2	2,916.70	1/2	2,634.59	1/2	2,337.97	1/2	2,041.13		
3/4		3/4		3/4		3/4	3,670.92	3/4	3,418.16	3/4	3,164.79	3/4	2,911.43	3/4	2,628.42	3/4	2,331.79	3/4	2,034.95		
6		6		6		6	3,665.73	6	3,412.88	6	3,159.52	6	2,906.15	6	2,622.26	6	2,325.60	6	2,028.76		
1/4		1/4		1/4		1/4	3,660.54	1/4	3,407.61	1/4	3,154.24	1/4	2,900.87	1/4	2,616.09	1/4	2,319.42	1/4	2,022.58		
1/2		1/2		1/2		1/2	3,655.35	1/2	3,402.33	1/2	3,148.96	1/2	2,895.59	1/2	2,609.93	1/2	2,313.23	1/2	2,016.39		
3/4		3/4		3/4		3/4	3,650.15	3/4	3,397.05	3/4	3,143.68	3/4	2,890.31	3/4	2,603.76	3/4	2,307.05	3/4	2,010.21		
7		7		7		7	3,644.96	7	3,391.77	7	3,138.40	7	2,885.03	7	2,597.60	7	2,300.87	7	2,004.02		
1/4		1/4		1/4		1/4	3,639.77	1/4	3,386.49	1/4	3,133.12	1/4	2,879.76	1/4	2,591.43	1/4	2,294.68	1/4	1,997.84		
1/2		1/2		1/2		1/2	3,634.58	1/2	3,381.21	1/2	3,127.84	1/2	2,874.48	1/2	2,585.26	1/2	2,288.50	1/2	1,991.66		
3/4		3/4		3/4		3/4	3,629.30	3/4	3,375.93	3/4	3,122.57	3/4	2,869.17	3/4	2,579.10	3/4	2,282.31	3/4	1,985.47		
8		8		8		8	3,624.02	8	3,370.66	8	3,117.29	8	2,863.87	8	2,572.93	8	2,276.13	8	1,979.29		
1/4		1/4		1/4		1/4	3,618.75	1/4	3,365.38	1/4	3,112.01	1/4	2,858.57	1/4	2,566.77	1/4	2,269.94	1/4	1,973.10		
1/2		1/2		1/2		1/2	3,613.47	1/2	3,360.10	1/2	3,106.73	1/2	2,853.26	1/2	2,560.60	1/2	2,263.76	1/2	1,966.92		
3/4		3/4		3/4		3/4	3,608.19	3/4	3,354.82	3/4	3,101.45	3/4	2,847.96	3/4	2,554.42	3/4	2,257.58	3/4	1,960.73		
9		9		9		9	3,602.91	9	3,349.54	9	3,096.17	9	2,842.66	9	2,548.23	9	2,251.39	9	1,954.55		
1/4		1/4		1/4		1/4	3,597.63	1/4	3,344.26	1/4	3,090.90	1/4	2,837.35	1/4	2,542.05	1/4	2,245.21	1/4	1,948.37		
1/2		1/2		1/2		1/2	3,592.35	1/2	3,338.98	1/2	3,085.62	1/2	2,832.05	1/2	2,535.87	1/2	2,239.02	1/2	1,942.18		
3/4		3/4		3/4		3/4	3,587.07	3/4	3,333.71	3/4	3,080.34	3/4	2,825.84	3/4	2,529.68	3/4	2,232.84	3/4	1,936.00		
10		10		10		10	3,581.80	10	3,328.43	10	3,075.06	10	2,819.64	10	2,523.50	10	2,226.66	10	1,929.81		
1/4		1/4		1/4		1/4	3,576.52	1/4	3,323.15	1/4	3,069.78	1/4	2,813.43	1/4	2,517.31	1/4	2,220.47	1/4	1,923.63		
1/2		1/2		1/2		1/2	3,571.24	1/2	3,317.87	1/2	3,064.50	1/2	2,807.22	1/2	2,511.13	1/2	2,214.29	1/2	1,917.45		
3/4		3/4		3/4		3/4	3,565.96	3/4	3,312.59	3/4	3,059.22	3/4	2,801.06	3/4	2,504.94	3/4	2,208.10	3/4	1,911.26		
11		11		11		11	3,560.68	11	3,307.31	11	3,053.95	11	2,794.89	11	2,498.76	11	2,201.92	11	1,905.08		
1/4		1/4		1/4		1/4	3,555.40	1/4	3,302.04	1/4	3,048.67	1/4	2,788.73	1/4	2,492.58	1/4	2,195.73	1/4	1,898.89		
1/2		1/2		1/2		1/2	3,771.37	1/2	3,550.12	1/2	3,296.76	1/2	3,043.39	1/2	2,782.56	1/2	2,486.39	1/2	2,189.55	1/2	1,892.71
3/4		3/4		3/4		3/4	3,770.33	3/4	3,544.85	3/4	3,291.48	3/4	3,038.11	3/4	2,776.39	3/4	2,480.21	3/4	2,183.37	3/4	1,886.52

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 ON CENTERLINE AND 31'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 10230"

1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 1/2"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
0	1,880.34	0	1,583.25	0	1,285.99	0	988.74	0	697.55	0	400.14	0	102.74	0		0		0	
1/4	1,874.16	1/4	1,577.06	1/4	1,279.80	1/4	982.55	1/4	691.38	1/4	393.94	1/4	96.57	1/4	1/4	1/4		1/4	
1/2	1,867.97	1/2	1,570.86	1/2	1,273.61	1/2	976.35	1/2	685.20	1/2	387.74	1/2	90.40	1/2	1/2	1/2		1/2	
3/4	1,861.79	3/4	1,564.67	3/4	1,267.42	3/4	970.22	3/4	679.00	3/4	381.55	3/4	84.27	3/4	3/4	3/4		3/4	
1	1,855.60	1	1,558.48	1	1,261.22	1	964.09	1	672.80	1	375.35	1	78.13	1	1	1		1	
1/4	1,849.42	1/4	1,552.28	1/4	1,255.03	1/4	957.96	1/4	666.61	1/4	369.15	1/4	71.99	1/4	1/4	1/4		1/4	
1/2	1,843.24	1/2	1,546.09	1/2	1,248.84	1/2	951.84	1/2	660.41	1/2	362.95	1/2	65.85	1/2	1/2	1/2		1/2	
3/4	1,837.05	3/4	1,539.90	3/4	1,242.64	3/4	945.77	3/4	654.22	3/4	356.76	3/4	59.77	3/4	3/4	3/4		3/4	
2	1,830.87	2	1,533.71	2	1,236.45	2	939.70	2	648.02	2	350.56	2	53.69	2	2	2		2	
1/4	1,824.68	1/4	1,527.51	1/4	1,230.26	1/4	933.63	1/4	641.82	1/4	344.36	1/4	47.61	1/4	1/4	1/4		1/4	
1/2	1,818.50	1/2	1,521.32	1/2	1,224.07	1/2	927.57	1/2	635.63	1/2	338.17	1/2	41.53	1/2	1/2	1/2		1/2	
3/4	1,812.31	3/4	1,515.13	3/4	1,217.87	3/4	921.50	3/4	629.43	3/4	331.97	3/4	36.37	3/4	3/4	3/4		3/4	
3	1,806.11	3	1,508.94	3	1,211.68	3	915.44	3	623.23	3	325.77	3	31.20	3	3	3		3	
1/4	1,799.92	1/4	1,502.74	1/4	1,205.49	1/4	909.37	1/4	617.04	1/4	319.57	1/4	26.04	1/4	1/4	1/4		1/4	
1/2	1,793.73	1/2	1,496.55	1/2	1,199.30	1/2	903.30	1/2	610.84	1/2	313.38	1/2	20.87	1/2	1/2	1/2		1/2	
3/4	1,787.54	3/4	1,490.36	3/4	1,193.10	3/4	897.25	3/4	604.64	3/4	307.18	3/4	17.77	3/4	3/4	3/4		3/4	
4	1,781.34	4	1,484.16	4	1,186.91	4	891.20	4	598.44	4	300.98	4	14.66	4	4	4		4	
1/4	1,775.15	1/4	1,477.97	1/4	1,180.72	1/4	885.15	1/4	592.25	1/4	294.79	1/4	11.56	1/4	1/4	1/4		1/4	
1/2	1,768.96	1/2	1,471.78	1/2	1,174.52	1/2	879.11	1/2	586.05	1/2	288.59	1/2	8.46	1/2	1/2	1/2		1/2	
3/4	1,762.76	3/4	1,465.59	3/4	1,168.33	3/4	873.07	3/4	579.85	3/4	282.39	3/4	7.42	3/4	3/4	3/4		3/4	
5	1,756.57	5	1,459.39	5	1,162.14	5	867.04	5	573.66	5	276.19	5	6.39	5	5	5		5	
1/4	1,750.38	1/4	1,453.20	1/4	1,155.95	1/4	861.00	1/4	567.46	1/4	270.00	1/4	5.35	1/4	1/4	1/4		1/4	
1/2	1,744.19	1/2	1,447.01	1/2	1,149.75	1/2	854.97	1/2	561.26	1/2	263.80	1/2	4.32	1/2	1/2	1/2		1/2	
3/4	1,738.00	3/4	1,440.81	3/4	1,143.56	3/4	848.94	3/4	555.06	3/4	257.60	3/4		3/4	3/4	3/4		3/4	
6	1,731.80	6	1,434.62	6	1,137.37	6	842.90	6	548.87	6	251.41	6		6	6	6		6	
1/4	1,725.61	1/4	1,428.43	1/4	1,131.17	1/4	836.87	1/4	542.67	1/4	245.21	1/4		1/4	1/4	1/4		1/4	
1/2	1,719.42	1/2	1,422.24	1/2	1,124.98	1/2	830.84	1/2	536.47	1/2	239.01	1/2		1/2	1/2	1/2		1/2	
3/4	1,713.23	3/4	1,416.04	3/4	1,118.79	3/4	824.80	3/4	530.28	3/4	232.82	3/4		3/4	3/4	3/4		3/4	
7	1,707.04	7	1,409.85	7	1,112.60	7	818.77	7	524.08	7	226.62	7		7	7	7		7	
1/4	1,700.85	1/4	1,403.66	1/4	1,106.40	1/4	812.74	1/4	517.88	1/4	220.42	1/4		1/4	1/4	1/4		1/4	
1/2	1,694.66	1/2	1,397.46	1/2	1,100.21	1/2	806.70	1/2	511.68	1/2	214.22	1/2		1/2	1/2	1/2		1/2	
3/4	1,688.48	3/4	1,391.27	3/4	1,094.02	3/4	800.67	3/4	505.49	3/4	208.03	3/4		3/4	3/4	3/4		3/4	
8	1,682.29	8	1,385.08	8	1,087.82	8	794.64	8	499.29	8	201.83	8		8	8	8		8	
1/4	1,676.10	1/4	1,378.89	1/4	1,081.63	1/4	788.60	1/4	493.09	1/4	195.63	1/4		1/4	1/4	1/4		1/4	
1/2	1,669.91	1/2	1,372.69	1/2	1,075.44	1/2	782.57	1/2	486.90	1/2	189.44	1/2		1/2	1/2	1/2		1/2	
3/4	1,663.72	3/4	1,366.50	3/4	1,069.25	3/4	776.54	3/4	480.70	3/4	183.24	3/4		3/4	3/4	3/4		3/4	
9	1,657.53	9	1,360.31	9	1,063.05	9	770.50	9	474.50	9	177.04	9		9	9	9		9	
1/4	1,651.34	1/4	1,354.12	1/4	1,056.86	1/4	764.47	1/4	468.30	1/4	170.85	1/4		1/4	1/4	1/4		1/4	
1/2	1,645.15	1/2	1,347.92	1/2	1,050.67	1/2	758.44	1/2	462.11	1/2	164.65	1/2		1/2	1/2	1/2		1/2	
3/4	1,638.96	3/4	1,341.73	3/4	1,044.48	3/4	752.40	3/4	455.91	3/4	158.45	3/4		3/4	3/4	3/4		3/4	
10	1,632.77	10	1,335.54	10	1,038.28	10	746.37	10	449.71	10	152.25	10		10	10	10		10	
1/4	1,626.58	1/4	1,329.34	1/4	1,032.09	1/4	740.33	1/4	443.52	1/4	146.04	1/4		1/4	1/4	1/4		1/4	
1/2	1,620.39	1/2	1,323.15	1/2	1,025.90	1/2	734.30	1/2	437.32	1/2	139.84	1/2		1/2	1/2	1/2		1/2	
3/4	1,614.20	3/4	1,316.96	3/4	1,019.70	3/4	728.20	3/4	431.12	3/4	133.65	3/4		3/4	3/4	3/4		3/4	
11	1,608.01	11	1,310.77	11	1,013.51	11	722.11	11	424.93	11	127.46	11		11	11	11		11	
1/4	1,601.82	1/4	1,304.57	1/4	1,007.32	1/4	716.01	1/4	418.73	1/4	121.27	1/4		1/4	1/4	1/4		1/4	
1/2	1,595.63	1/2	1,298.38	1/2	1,001.13	1/2	709.91	1/2	412.53	1/2	115.08	1/2		1/2	1/2	1/2		1/2	
3/4	1,589.44	3/4	1,292.19	3/4	994.93	3/4	703.73	3/4	406.33	3/4	108.91	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/23/2012 CL - SW
CALCULATED: 05/23/2012 CL
PRINTED: 05/23/2012 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2012

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



BARGE "KIRBY 10230"

2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT		
0		0		0		0	3,473.57	0	3,233.25	0	2,971.32	0	2,709.38	0	2,446.90	0	2,183.57	0	1,920.23		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,472.66	1/4	3,227.79	1/4	2,965.86	1/4	2,703.93	1/4	2,441.41	1/4	2,178.08	1/4	1,914.75		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,469.91	1/2	3,222.33	1/2	2,960.40	1/2	2,698.47	1/2	2,435.93	1/2	2,172.59	1/2	1,909.26		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,467.17	3/4	3,216.88	3/4	2,954.94	3/4	2,693.01	3/4	2,430.44	3/4	2,167.11	3/4	1,903.77		
1		1		1		1	3,464.42	1	3,211.42	1	2,949.49	1	2,687.56	1	2,424.95	1	2,161.62	1	1,898.29		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,461.68	1/4	3,205.96	1/4	2,944.03	1/4	2,682.10	1/4	2,419.47	1/4	2,156.14	1/4	1,892.80		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,457.23	1/2	3,200.51	1/2	2,938.57	1/2	2,676.64	1/2	2,413.98	1/2	2,150.65	1/2	1,887.32		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,452.79	3/4	3,195.05	3/4	2,933.12	3/4	2,671.19	3/4	2,408.50	3/4	2,145.16	3/4	1,881.83		
2		2		2		2	3,448.34	2	3,189.59	2	2,927.66	2	2,665.73	2	2,403.01	2	2,139.68	2	1,876.34		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,443.90	1/4	3,184.13	1/4	2,922.20	1/4	2,660.27	1/4	2,397.52	1/4	2,134.19	1/4	1,870.86		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,438.58	1/2	3,178.68	1/2	2,916.75	1/2	2,654.82	1/2	2,392.04	1/2	2,128.70	1/2	1,865.37		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,433.26	3/4	3,173.22	3/4	2,911.29	3/4	2,649.36	3/4	2,386.55	3/4	2,123.22	3/4	1,859.89		
3		3		3		3	3,427.95	3	3,167.76	3	2,905.83	3	2,643.90	3	2,381.07	3	2,117.73	3	1,854.40		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,422.63	1/4	3,162.31	1/4	2,900.38	1/4	2,638.44	1/4	2,375.58	1/4	2,112.25	1/4	1,848.91		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,417.28	1/2	3,156.85	1/2	2,894.92	1/2	2,632.99	1/2	2,370.09	1/2	2,106.76	1/2	1,843.43		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,411.93	3/4	3,151.39	3/4	2,889.46	3/4	2,627.53	3/4	2,364.61	3/4	2,101.27	3/4	1,837.94		
4		4		4		4	3,406.58	4	3,145.94	4	2,884.01	4	2,622.07	4	2,359.12	4	2,095.79	4	1,832.46		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,401.23	1/4	3,140.48	1/4	2,878.55	1/4	2,616.62	1/4	2,353.63	1/4	2,090.30	1/4	1,826.97		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,395.87	1/2	3,135.02	1/2	2,873.09	1/2	2,611.16	1/2	2,348.15	1/2	2,084.82	1/2	1,821.48		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,390.51	3/4	3,129.57	3/4	2,867.63	3/4	2,605.70	3/4	2,342.66	3/4	2,079.33	3/4	1,816.00		
5		5		5		5	3,385.15	5	3,124.11	5	2,862.18	5	2,600.25	5	2,337.18	5	2,073.84	5	1,810.51		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,379.79	1/4	3,118.65	1/4	2,856.72	1/4	2,594.79	1/4	2,331.69	1/4	2,068.36	1/4	1,805.02		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,374.43	1/2	3,113.20	1/2	2,851.26	1/2	2,589.33	1/2	2,326.20	1/2	2,062.87	1/2	1,799.54		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,369.07	3/4	3,107.74	3/4	2,845.81	3/4	2,583.88	3/4	2,320.72	3/4	2,057.39	3/4	1,794.05		
6		6		6		6	3,363.72	6	3,102.28	6	2,840.35	6	2,578.42	6	2,315.23	6	2,051.90	6	1,788.57		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,358.36	1/4	3,096.82	1/4	2,834.89	1/4	2,572.96	1/4	2,309.75	1/4	2,046.41	1/4	1,783.08		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,353.00	1/2	3,091.37	1/2	2,829.44	1/2	2,567.51	1/2	2,304.26	1/2	2,040.93	1/2	1,777.59		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,347.64	3/4	3,085.91	3/4	2,823.98	3/4	2,562.05	3/4	2,298.77	3/4	2,035.44	3/4	1,772.11		
7		7		7		7	3,342.29	7	3,080.45	7	2,818.52	7	2,556.59	7	2,293.29	7	2,029.95	7	1,766.62		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,336.93	1/4	3,075.00	1/4	2,813.07	1/4	2,551.13	1/4	2,287.80	1/4	2,024.47	1/4	1,761.14		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,331.47	1/2	3,069.54	1/2	2,807.61	1/2	2,545.65	1/2	2,282.32	1/2	2,018.98	1/2	1,755.65		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,326.01	3/4	3,064.08	3/4	2,802.15	3/4	2,540.16	3/4	2,276.83	3/4	2,013.50	3/4	1,750.16		
8		8		8		8	3,320.56	8	3,058.63	8	2,796.69	8	2,534.68	8	2,271.34	8	2,008.01	8	1,744.68		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,315.10	1/4	3,053.17	1/4	2,791.24	1/4	2,529.19	1/4	2,265.86	1/4	2,002.52	1/4	1,739.19		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,309.64	1/2	3,047.71	1/2	2,785.78	1/2	2,523.70	1/2	2,260.37	1/2	1,997.04	1/2	1,733.71		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,304.19	3/4	3,042.26	3/4	2,780.32	3/4	2,518.22	3/4	2,254.88	3/4	1,991.55	3/4	1,728.22		
9		9		9		9	3,298.73	9	3,036.80	9	2,774.87	9	2,512.73	9	2,249.40	9	1,986.07	9	1,722.73		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,293.27	1/4	3,031.34	1/4	2,769.41	1/4	2,507.25	1/4	2,243.91	1/4	1,980.58	1/4	1,717.25		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,287.82	1/2	3,025.88	1/2	2,763.95	1/2	2,501.76	1/2	2,238.43	1/2	1,975.09	1/2	1,711.76		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,282.36	3/4	3,020.43	3/4	2,758.50	3/4	2,496.27	3/4	2,232.94	3/4	1,969.61	3/4	1,706.27		
10		10		10		10	3,276.90	10	3,014.97	10	2,753.04	10	2,490.79	10	2,227.45	10	1,964.12	10	1,700.79		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,271.45	1/4	3,009.51	1/4	2,747.58	1/4	2,485.30	1/4	2,221.97	1/4	1,958.64	1/4	1,695.30		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,265.99	1/2	3,004.06	1/2	2,742.13	1/2	2,479.82	1/2	2,216.48	1/2	1,953.15	1/2	1,689.82		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,260.53	3/4	2,998.60	3/4	2,736.67	3/4	2,474.33	3/4	2,211.00	3/4	1,947.66	3/4	1,684.33		
11		11		11		11	3,255.07	11	2,993.14	11	2,731.21	11	2,468.84	11	2,205.51	11	1,942.18	11	1,678.84		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,476.32	1/4	3,249.62	1/4	2,987.69	1/4	2,725.76	1/4	2,463.36	1/4	2,200.02	1/4	1,936.69	1/4	1,673.36
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,475.40	1/2	3,244.16	1/2	2,982.23	1/2	2,720.30	1/2	2,457.87	1/2	2,194.54	1/2	1,931.21	1/2	1,667.87
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,474.49	3/4	3,238.70	3/4	2,976.77	3/4	2,714.84	3/4	2,452.38	3/4	2,189.05	3/4	1,925.72	3/4	1,662.39

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 ON CENTERLINE AND 27'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "KIRBY 10230"

2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 1/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
0	1,656.90	0	1,393.56	0	1,130.06	0	868.68	0	609.01	0	345.53	0	82.24	0		0		0	
1/4	1,651.41	1/4	1,388.07	1/4	1,124.57	1/4	863.27	1/4	603.52	1/4	340.04	1/4	76.79	1/4	1/4	1/4		1/4	
1/2	1,645.93	1/2	1,382.58	1/2	1,119.08	1/2	857.87	1/2	598.03	1/2	334.55	1/2	71.36	1/2	1/2	1/2		1/2	
3/4	1,640.44	3/4	1,377.09	3/4	1,113.59	3/4	852.46	3/4	592.54	3/4	329.06	3/4	65.93	3/4	3/4	3/4		3/4	
1	1,634.96	1	1,371.60	1	1,108.10	1	847.06	1	587.05	1	323.57	1	60.51	1	1	1		1	
1/4	1,629.47	1/4	1,366.11	1/4	1,102.61	1/4	841.65	1/4	581.56	1/4	318.08	1/4	55.08	1/4	1/4	1/4		1/4	
1/2	1,623.98	1/2	1,360.62	1/2	1,097.12	1/2	836.25	1/2	576.07	1/2	312.59	1/2	49.71	1/2	1/2	1/2		1/2	
3/4	1,618.50	3/4	1,355.13	3/4	1,091.63	3/4	830.84	3/4	570.58	3/4	307.10	3/4	44.33	3/4	3/4	3/4		3/4	
2	1,613.01	2	1,349.64	2	1,086.14	2	825.44	2	565.09	2	301.61	2	38.96	2	2	2		2	
1/4	1,607.53	1/4	1,344.15	1/4	1,080.65	1/4	820.03	1/4	559.61	1/4	296.12	1/4	33.58	1/4	1/4	1/4		1/4	
1/2	1,602.04	1/2	1,338.66	1/2	1,075.16	1/2	814.63	1/2	554.12	1/2	290.63	1/2	29.01	1/2	1/2	1/2		1/2	
3/4	1,596.55	3/4	1,333.17	3/4	1,069.67	3/4	809.23	3/4	548.63	3/4	285.15	3/4	24.45	3/4	3/4	3/4		3/4	
3	1,591.07	3	1,327.68	3	1,064.18	3	803.84	3	543.14	3	279.66	3	19.88	3	3	3		3	
1/4	1,585.58	1/4	1,322.19	1/4	1,058.69	1/4	798.44	1/4	537.65	1/4	274.17	1/4	15.31	1/4	1/4	1/4		1/4	
1/2	1,580.09	1/2	1,316.70	1/2	1,053.20	1/2	793.04	1/2	532.16	1/2	268.68	1/2	12.57	1/2	1/2	1/2		1/2	
3/4	1,574.61	3/4	1,311.21	3/4	1,047.71	3/4	787.64	3/4	526.67	3/4	263.19	3/4	9.83	3/4	3/4	3/4		3/4	
4	1,569.12	4	1,305.72	4	1,042.22	4	782.24	4	521.18	4	257.70	4	7.08	4	4	4		4	
1/4	1,563.64	1/4	1,300.23	1/4	1,036.73	1/4	776.84	1/4	515.69	1/4	252.21	1/4	4.34	1/4	1/4	1/4		1/4	
1/2	1,558.15	1/2	1,294.74	1/2	1,031.24	1/2	771.44	1/2	510.20	1/2	246.72	1/2	3.42	1/2	1/2	1/2		1/2	
3/4	1,552.66	3/4	1,289.25	3/4	1,025.75	3/4	766.04	3/4	504.71	3/4	241.23	3/4	2.51	3/4	3/4	3/4		3/4	
5	1,547.18	5	1,283.76	5	1,020.26	5	760.64	5	499.22	5	235.74	5	1.59	5	5	5		5	
1/4	1,541.69	1/4	1,278.28	1/4	1,014.77	1/4	755.24	1/4	493.74	1/4	230.25	1/4	0.68	1/4	1/4	1/4		1/4	
1/2	1,536.21	1/2	1,272.79	1/2	1,009.33	1/2	749.84	1/2	488.25	1/2	224.76	1/2		1/2	1/2	1/2		1/2	
3/4	1,530.72	3/4	1,267.30	3/4	1,003.88	3/4	744.44	3/4	482.76	3/4	219.28	3/4		3/4	3/4	3/4		3/4	
6	1,525.23	6	1,261.81	6	998.43	6	739.04	6	477.27	6	213.79	6		6	6	6		6	
1/4	1,519.75	1/4	1,256.32	1/4	992.98	1/4	733.64	1/4	471.78	1/4	208.30	1/4		1/4	1/4	1/4		1/4	
1/2	1,514.26	1/2	1,250.83	1/2	987.58	1/2	728.24	1/2	466.29	1/2	202.81	1/2		1/2	1/2	1/2		1/2	
3/4	1,508.78	3/4	1,245.34	3/4	982.17	3/4	722.84	3/4	460.80	3/4	197.32	3/4		3/4	3/4	3/4		3/4	
7	1,503.29	7	1,239.85	7	976.77	7	717.44	7	455.31	7	191.83	7		7	7	7		7	
1/4	1,497.80	1/4	1,234.36	1/4	971.37	1/4	712.05	1/4	449.82	1/4	186.34	1/4		1/4	1/4	1/4		1/4	
1/2	1,492.32	1/2	1,228.87	1/2	965.96	1/2	706.65	1/2	444.33	1/2	180.85	1/2		1/2	1/2	1/2		1/2	
3/4	1,486.83	3/4	1,223.38	3/4	960.56	3/4	701.25	3/4	438.84	3/4	175.36	3/4		3/4	3/4	3/4		3/4	
8	1,481.34	8	1,217.89	8	955.15	8	695.85	8	433.35	8	169.87	8		8	8	8		8	
1/4	1,475.86	1/4	1,212.40	1/4	949.75	1/4	690.45	1/4	427.86	1/4	164.38	1/4		1/4	1/4	1/4		1/4	
1/2	1,470.37	1/2	1,206.91	1/2	944.34	1/2	685.05	1/2	422.38	1/2	158.89	1/2		1/2	1/2	1/2		1/2	
3/4	1,464.89	3/4	1,201.42	3/4	938.94	3/4	679.65	3/4	416.89	3/4	153.41	3/4		3/4	3/4	3/4		3/4	
9	1,459.40	9	1,195.93	9	933.53	9	674.25	9	411.40	9	147.92	9		9	9	9		9	
1/4	1,453.91	1/4	1,190.44	1/4	928.13	1/4	668.85	1/4	405.91	1/4	142.43	1/4		1/4	1/4	1/4		1/4	
1/2	1,448.43	1/2	1,184.95	1/2	922.72	1/2	663.45	1/2	400.42	1/2	136.95	1/2		1/2	1/2	1/2		1/2	
3/4	1,442.94	3/4	1,179.46	3/4	917.32	3/4	658.05	3/4	394.93	3/4	131.46	3/4		3/4	3/4	3/4		3/4	
10	1,437.46	10	1,173.97	10	911.91	10	652.66	10	389.44	10	125.98	10		10	10	10		10	
1/4	1,431.97	1/4	1,168.48	1/4	906.51	1/4	647.26	1/4	383.95	1/4	120.49	1/4		1/4	1/4	1/4		1/4	
1/2	1,426.48	1/2	1,162.99	1/2	901.10	1/2	641.81	1/2	378.46	1/2	115.02	1/2		1/2	1/2	1/2		1/2	
3/4	1,421.00	3/4	1,157.50	3/4	895.70	3/4	636.36	3/4	372.97	3/4	109.55	3/4		3/4	3/4	3/4		3/4	
11	1,415.51	11	1,152.01	11	890.29	11	630.92	11	367.48	11	104.08	11		11	11	11		11	
1/4	1,410.03	1/4	1,146.52	1/4	884.89	1/4	625.47	1/4	361.99	1/4	98.60	1/4		1/4	1/4	1/4		1/4	
1/2	1,404.54	1/2	1,141.04	1/2	879.49	1/2	619.98	1/2	356.51	1/2	93.15	1/2		1/2	1/2	1/2		1/2	
3/4	1,399.05	3/4	1,135.55	3/4	874.08	3/4	614.50	3/4	351.02	3/4	87.70	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/23/2012 CL - SW
CALCULATED: 05/23/2012 CL
PRINTED: 05/23/2012 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2012

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



BARGE "KIRBY 10230"

3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05"

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
							3,455.01		3,211.70		2,951.43		2,691.16		2,430.30		2,168.63		1,906.96
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,452.28	1/4	3,206.27	1/4	2,946.00	1/4	2,685.73	1/4	2,424.85	1/4	2,163.18	1/4	1,901.51
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,449.55	1/2	3,200.85	1/2	2,940.58	1/2	2,680.31	1/2	2,419.40	1/2	2,157.73	1/2	1,896.05
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,446.82	3/4	3,195.43	3/4	2,935.16	3/4	2,674.89	3/4	2,413.95	3/4	2,152.27	3/4	1,890.60
1	1	1	1	1	1	1	3,444.10	1	3,190.01	1	2,929.74	1	2,669.47	1	2,408.49	1	2,146.82	1	1,885.15
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,439.68	1/4	3,184.58	1/4	2,924.31	1/4	2,664.04	1/4	2,403.04	1/4	2,141.37	1/4	1,879.70
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,435.26	1/2	3,179.16	1/2	2,918.89	1/2	2,658.62	1/2	2,397.59	1/2	2,135.92	1/2	1,874.25
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,430.85	3/4	3,173.74	3/4	2,913.47	3/4	2,653.20	3/4	2,392.14	3/4	2,130.47	3/4	1,868.80
2	2	2	2	2	2	2	3,426.43	2	3,168.32	2	2,908.05	2	2,647.78	2	2,386.69	2	2,125.02	2	1,863.34
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,421.15	1/4	3,162.90	1/4	2,902.62	1/4	2,642.35	1/4	2,381.24	1/4	2,119.57	1/4	1,857.89
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,415.87	1/2	3,157.47	1/2	2,897.20	1/2	2,636.93	1/2	2,375.79	1/2	2,114.11	1/2	1,852.44
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,410.58	3/4	3,152.05	3/4	2,891.78	3/4	2,631.51	3/4	2,370.33	3/4	2,108.66	3/4	1,846.99
3	3	3	3	3	3	3	3,405.30	3	3,146.63	3	2,886.36	3	2,626.09	3	2,364.88	3	2,103.21	3	1,841.54
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,399.98	1/4	3,141.21	1/4	2,880.94	1/4	2,620.67	1/4	2,359.43	1/4	2,097.76	1/4	1,836.09
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,394.67	1/2	3,135.78	1/2	2,875.51	1/2	2,615.24	1/2	2,353.98	1/2	2,092.31	1/2	1,830.64
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,389.36	3/4	3,130.36	3/4	2,870.09	3/4	2,609.82	3/4	2,348.53	3/4	2,086.86	3/4	1,825.18
4	4	4	4	4	4	4	3,384.04	4	3,124.94	4	2,864.67	4	2,604.40	4	2,343.08	4	2,081.40	4	1,819.73
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,378.71	1/4	3,119.52	1/4	2,859.25	1/4	2,598.98	1/4	2,337.63	1/4	2,075.95	1/4	1,814.28
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,373.38	1/2	3,114.09	1/2	2,853.82	1/2	2,593.55	1/2	2,332.17	1/2	2,070.50	1/2	1,808.83
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,368.06	3/4	3,108.67	3/4	2,848.40	3/4	2,588.13	3/4	2,326.72	3/4	2,065.05	3/4	1,803.38
5	5	5	5	5	5	5	3,362.73	5	3,103.25	5	2,842.98	5	2,582.71	5	2,321.27	5	2,059.60	5	1,797.93
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,357.40	1/4	3,097.83	1/4	2,837.56	1/4	2,577.29	1/4	2,315.82	1/4	2,054.15	1/4	1,792.48
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,352.08	1/2	3,092.41	1/2	2,832.13	1/2	2,571.86	1/2	2,310.37	1/2	2,048.70	1/2	1,787.02
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,346.76	3/4	3,086.98	3/4	2,826.71	3/4	2,566.44	3/4	2,304.92	3/4	2,043.24	3/4	1,781.57
6	6	6	6	6	6	6	3,341.43	6	3,081.56	6	2,821.29	6	2,561.02	6	2,299.46	6	2,037.79	6	1,776.12
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,336.11	1/4	3,076.14	1/4	2,815.87	1/4	2,555.60	1/4	2,294.01	1/4	2,032.34	1/4	1,770.67
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,330.79	1/2	3,070.72	1/2	2,810.45	1/2	2,550.18	1/2	2,288.56	1/2	2,026.89	1/2	1,765.22
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,325.47	3/4	3,065.29	3/4	2,805.02	3/4	2,544.75	3/4	2,283.11	3/4	2,021.44	3/4	1,759.77
7	7	7	7	7	7	7	3,320.14	7	3,059.87	7	2,799.60	7	2,539.33	7	2,277.66	7	2,015.99	7	1,754.31
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,314.72	1/4	3,054.45	1/4	2,794.18	1/4	2,533.88	1/4	2,272.21	1/4	2,010.54	1/4	1,748.86
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,309.30	1/2	3,049.03	1/2	2,788.76	1/2	2,528.43	1/2	2,266.76	1/2	2,005.08	1/2	1,743.41
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,303.88	3/4	3,043.60	3/4	2,783.33	3/4	2,522.98	3/4	2,261.30	3/4	1,999.63	3/4	1,737.96
8	8	8	8	8	8	8	3,298.45	8	3,038.18	8	2,777.91	8	2,517.52	8	2,255.85	8	1,994.18	8	1,732.51
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,293.03	1/4	3,032.76	1/4	2,772.49	1/4	2,512.07	1/4	2,250.40	1/4	1,988.73	1/4	1,727.06
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,287.61	1/2	3,027.34	1/2	2,767.07	1/2	2,506.62	1/2	2,244.95	1/2	1,983.28	1/2	1,721.61
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,282.19	3/4	3,021.92	3/4	2,761.65	3/4	2,501.17	3/4	2,239.50	3/4	1,977.83	3/4	1,716.15
9	9	9	9	9	9	9	3,276.76	9	3,016.49	9	2,756.22	9	2,495.72	9	2,234.05	9	1,972.37	9	1,710.70
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,271.34	1/4	3,011.07	1/4	2,750.80	1/4	2,490.27	1/4	2,228.60	1/4	1,966.92	1/4	1,705.25
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,265.92	1/2	3,005.65	1/2	2,745.38	1/2	2,484.82	1/2	2,223.14	1/2	1,961.47	1/2	1,699.80
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,260.50	3/4	3,000.23	3/4	2,739.96	3/4	2,479.36	3/4	2,217.69	3/4	1,956.02	3/4	1,694.35
10	10	10	10	10	10	10	3,255.07	10	2,994.80	10	2,734.53	10	2,473.91	10	2,212.24	10	1,950.57	10	1,688.90
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,249.65	1/4	2,989.38	1/4	2,729.11	1/4	2,468.46	1/4	2,206.79	1/4	1,945.12	1/4	1,683.45
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,244.23	1/2	2,983.96	1/2	2,723.69	1/2	2,463.01	1/2	2,201.34	1/2	1,939.67	1/2	1,677.99
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,238.81	3/4	2,978.54	3/4	2,718.27	3/4	2,457.56	3/4	2,195.89	3/4	1,934.21	3/4	1,672.54
11	11	11	3,458.64	11	3,233.39	11	2,973.11	11	2,712.84	11	2,452.11	11	2,190.43	11	1,928.76	11	1,667.09		
1/4	1/4	1/4	3,457.73	1/4	3,227.96	1/4	2,967.69	1/4	2,707.42	1/4	2,446.66	1/4	2,184.98	1/4	1,923.31	1/4	1,661.64		
1/2	1/2	1/2	3,456.82	1/2	3,222.54	1/2	2,962.27	1/2	2,702.00	1/2	2,441.20	1/2	2,179.53	1/2	1,917.86	1/2	1,656.19		
3/4	3/4	3/4	3,455.92	3/4	3,217.12	3/4	2,956.85	3/4	2,696.58	3/4	2,435.75	3/4	2,174.08	3/4	1,912.41	3/4	1,650.74		

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 ON CENTERLINE AND 27'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "KIRBY 10230"

3 CENTER 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	1,645.28	0	1,383.60	0	1,121.76	0	860.94	0	599.72	0	337.90	0	76.31	0		0		0	
1/4	1,639.83	1/4	1,378.14	1/4	1,116.30	1/4	855.52	1/4	594.27	1/4	332.44	1/4	70.92	1/4	1/4	1/4		1/4	
1/2	1,634.38	1/2	1,372.69	1/2	1,110.85	1/2	850.10	1/2	588.81	1/2	326.99	1/2	65.52	1/2	1/2	1/2		1/2	
3/4	1,628.93	3/4	1,367.23	3/4	1,105.39	3/4	844.68	3/4	583.36	3/4	321.54	3/4	60.13	3/4	3/4	3/4		3/4	
1	1,623.48	1	1,361.78	1	1,099.94	1	839.26	1	577.90	1	316.08	1	54.74	1	1	1		1	
1/4	1,618.03	1/4	1,356.32	1/4	1,094.48	1/4	833.84	1/4	572.45	1/4	310.63	1/4	49.40	1/4	1/4	1/4		1/4	
1/2	1,612.58	1/2	1,350.87	1/2	1,089.03	1/2	828.43	1/2	566.99	1/2	305.17	1/2	44.06	1/2	1/2	1/2		1/2	
3/4	1,607.12	3/4	1,345.41	3/4	1,083.57	3/4	823.01	3/4	561.54	3/4	299.72	3/4	38.71	3/4	3/4	3/4		3/4	
2	1,601.67	2	1,339.96	2	1,078.12	2	817.59	2	556.08	2	294.26	2	33.37	2	2	2		2	
1/4	1,596.22	1/4	1,334.50	1/4	1,072.66	1/4	812.18	1/4	550.63	1/4	288.81	1/4	28.84	1/4	1/4	1/4		1/4	
1/2	1,590.77	1/2	1,329.05	1/2	1,067.21	1/2	806.76	1/2	545.17	1/2	283.35	1/2	24.30	1/2	1/2	1/2		1/2	
3/4	1,585.32	3/4	1,323.59	3/4	1,061.75	3/4	801.35	3/4	539.72	3/4	277.90	3/4	19.76	3/4	3/4	3/4		3/4	
3	1,579.87	3	1,318.14	3	1,056.30	3	795.94	3	534.27	3	272.44	3	15.22	3	3	3		3	
1/4	1,574.42	1/4	1,312.68	1/4	1,050.84	1/4	790.49	1/4	528.81	1/4	266.99	1/4	12.50	1/4	1/4	1/4		1/4	
1/2	1,568.96	1/2	1,307.23	1/2	1,045.39	1/2	785.04	1/2	523.36	1/2	261.54	1/2	9.77	1/2	1/2	1/2		1/2	
3/4	1,563.51	3/4	1,301.77	3/4	1,039.93	3/4	779.59	3/4	517.90	3/4	256.08	3/4	7.04	3/4	3/4	3/4		3/4	
4	1,558.06	4	1,296.32	4	1,034.48	4	774.14	4	512.45	4	250.63	4	4.31	4	4	4		4	
1/4	1,552.61	1/4	1,290.86	1/4	1,029.02	1/4	768.69	1/4	506.99	1/4	245.17	1/4	3.41	1/4	1/4	1/4		1/4	
1/2	1,547.16	1/2	1,285.41	1/2	1,023.57	1/2	763.24	1/2	501.54	1/2	239.72	1/2	2.50	1/2	1/2	1/2		1/2	
3/4	1,541.71	3/4	1,279.95	3/4	1,018.11	3/4	757.79	3/4	496.08	3/4	234.26	3/4	1.59	3/4	3/4	3/4		3/4	
5	1,536.25	5	1,274.50	5	1,012.66	5	752.34	5	490.63	5	228.81	5	0.68	5	5	5		5	
1/4	1,530.80	1/4	1,269.04	1/4	1,007.24	1/4	746.89	1/4	485.17	1/4	223.35	1/4		1/4	1/4	1/4		1/4	
1/2	1,525.35	1/2	1,263.59	1/2	1,001.82	1/2	741.44	1/2	479.72	1/2	217.90	1/2		1/2	1/2	1/2		1/2	
3/4	1,519.90	3/4	1,258.13	3/4	996.40	3/4	735.99	3/4	474.26	3/4	212.44	3/4		3/4	3/4	3/4		3/4	
6	1,514.45	6	1,252.68	6	990.98	6	730.54	6	468.81	6	206.99	6		6	6	6		6	
1/4	1,509.00	1/4	1,247.22	1/4	985.57	1/4	725.09	1/4	463.36	1/4	201.53	1/4		1/4	1/4	1/4		1/4	
1/2	1,503.55	1/2	1,241.77	1/2	980.15	1/2	719.64	1/2	457.90	1/2	196.08	1/2		1/2	1/2	1/2		1/2	
3/4	1,498.09	3/4	1,236.31	3/4	974.73	3/4	714.19	3/4	452.45	3/4	190.63	3/4		3/4	3/4	3/4		3/4	
7	1,492.64	7	1,230.86	7	969.31	7	708.74	7	446.99	7	185.17	7		7	7	7		7	
1/4	1,487.19	1/4	1,225.40	1/4	963.89	1/4	703.29	1/4	441.54	1/4	179.72	1/4		1/4	1/4	1/4		1/4	
1/2	1,481.74	1/2	1,219.95	1/2	958.47	1/2	697.84	1/2	436.08	1/2	174.26	1/2		1/2	1/2	1/2		1/2	
3/4	1,476.29	3/4	1,214.49	3/4	953.05	3/4	692.39	3/4	430.63	3/4	168.81	3/4		3/4	3/4	3/4		3/4	
8	1,470.84	8	1,209.04	8	947.64	8	686.94	8	425.17	8	163.35	8		8	8	8		8	
1/4	1,465.39	1/4	1,203.58	1/4	942.22	1/4	681.49	1/4	419.72	1/4	157.90	1/4		1/4	1/4	1/4		1/4	
1/2	1,459.93	1/2	1,198.13	1/2	936.80	1/2	676.04	1/2	414.26	1/2	152.44	1/2		1/2	1/2	1/2		1/2	
3/4	1,454.48	3/4	1,192.67	3/4	931.38	3/4	670.59	3/4	408.81	3/4	146.99	3/4		3/4	3/4	3/4		3/4	
9	1,449.03	9	1,187.22	9	925.96	9	665.15	9	403.35	9	141.54	9		9	9	9		9	
1/4	1,443.58	1/4	1,181.76	1/4	920.54	1/4	659.70	1/4	397.90	1/4	136.09	1/4		1/4	1/4	1/4		1/4	
1/2	1,438.13	1/2	1,176.31	1/2	915.12	1/2	654.25	1/2	392.45	1/2	130.64	1/2		1/2	1/2	1/2		1/2	
3/4	1,432.68	3/4	1,170.85	3/4	909.71	3/4	648.80	3/4	386.99	3/4	125.19	3/4		3/4	3/4	3/4		3/4	
10	1,427.22	10	1,165.40	10	904.29	10	643.35	10	381.54	10	119.74	10		10	10	10		10	
1/4	1,421.77	1/4	1,159.94	1/4	898.87	1/4	637.90	1/4	376.08	1/4	114.30	1/4		1/4	1/4	1/4		1/4	
1/2	1,416.32	1/2	1,154.49	1/2	893.45	1/2	632.44	1/2	370.63	1/2	108.86	1/2		1/2	1/2	1/2		1/2	
3/4	1,410.87	3/4	1,149.03	3/4	888.03	3/4	626.99	3/4	365.17	3/4	103.43	3/4		3/4	3/4	3/4		3/4	
11	1,405.42	11	1,143.58	11	882.61	11	621.54	11	359.72	11	97.99	11		11	11	11		11	
1/4	1,399.96	1/4	1,138.12	1/4	877.19	1/4	616.08	1/4	354.26	1/4	92.57	1/4		1/4	1/4	1/4		1/4	
1/2	1,394.51	1/2	1,132.67	1/2	871.78	1/2	610.63	1/2	348.81	1/2	87.15	1/2		1/2	1/2	1/2		1/2	
3/4	1,389.05	3/4	1,127.21	3/4	866.36	3/4	605.17	3/4	343.35	3/4	81.73	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/23/2012 CL - SW
CALCULATED: 05/23/2012 CL
PRINTED: 05/23/2012 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2012

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