



KIRBY 10204



Barge Strapping Tables





BARGE "KIRBY 10204"

ULLAGE TRIM TABLE

FORMERLY "HFL 208S"

	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	- 00-0/8	00-0/8	- 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
2 CENTER	00-5/8	- 00-5/8	01-3/8	- 01-3/8	02-0/8	- 02-0/8	02-5/8	- 02-5/8	03-1/4	- 03-1/4	04-0/8	- 04-0/8
3 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

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

LENGTH BETWEEN DRAFT MARKS: 161'-00"

December 15, 2008

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

<http://www.pmacorp.net>



BARGE "KIRBY 10204"

1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "HFL 208S"

GAUGE HEIGHT 15'-06 7/8"

IN	0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
0	0	3,426.30	0	3,214.03	0	3,000.09	0	2,786.15	0	2,572.14	0	2,325.44	0	2,078.75	0	1,832.08	0	1,585.71		
1/4	1/4	3,423.72	1/4	3,209.57	1/4	2,995.63	1/4	2,781.70	1/4	2,567.00	1/4	2,320.31	1/4	2,073.61	1/4	1,826.94	1/4	1,580.57		
1/2	1/2	3,421.15	1/2	3,205.11	1/2	2,991.18	1/2	2,777.24	1/2	2,561.86	1/2	2,315.17	1/2	2,068.47	1/2	1,821.81	1/2	1,575.43		
3/4	3/4	3,418.57	3/4	3,200.66	3/4	2,986.72	3/4	2,772.78	3/4	2,556.72	3/4	2,310.03	3/4	2,063.33	3/4	1,816.68	3/4	1,570.30		
1	1	3,415.14	1	3,196.20	1	2,982.26	1	2,768.33	1	2,551.58	1	2,304.89	1	2,058.19	1	1,811.55	1	1,565.16		
1 1/4	1 1/4	3,410.84	1 1/4	3,191.74	1 1/4	2,977.81	1 1/4	2,763.87	1 1/4	2,546.44	1 1/4	2,299.75	1 1/4	2,053.05	1 1/4	1,806.42	1 1/4	1,560.02		
1 1/2	1 1/2	3,406.55	1 1/2	3,187.28	1 1/2	2,973.35	1 1/2	2,759.41	1 1/2	2,541.30	1 1/2	2,294.61	1 1/2	2,047.91	1 1/2	1,801.29	1 1/2	1,554.89		
3/2	3/2	3,402.25	3/2	3,182.83	3/2	2,968.89	3/2	2,754.96	3/2	2,536.16	3/2	2,289.47	3/2	2,042.77	3/2	1,796.15	3/2	1,549.75		
2	2	3,397.53	2	3,178.37	2	2,964.43	2	2,750.50	2	2,531.02	2	2,284.33	2	2,037.63	2	1,791.02	2	1,544.61		
2 1/4	2 1/4	3,392.38	2 1/4	3,173.91	2 1/4	2,959.98	2 1/4	2,746.04	2 1/4	2,525.89	2 1/4	2,279.19	2 1/4	2,032.49	2 1/4	1,785.89	2 1/4	1,539.47		
1 1/2	1 1/2	3,387.23	1 1/2	3,169.46	1 1/2	2,955.52	1 1/2	2,741.58	1 1/2	2,520.75	1 1/2	2,274.05	1 1/2	2,027.35	1 1/2	1,780.76	1 1/2	1,534.34		
3 1/4	3 1/4	3,382.07	3 1/4	3,165.00	3 1/4	2,951.06	3 1/4	2,737.13	3 1/4	2,516.61	3 1/4	2,268.91	3 1/4	2,022.21	3 1/4	1,775.63	3 1/4	1,529.20		
3	3	3,376.92	3	3,160.54	3	2,946.61	3	2,732.67	3	2,510.47	3	2,263.77	3	2,017.07	3	1,770.50	3	1,524.06		
1 1/4	1 1/4	3,371.77	1 1/4	3,156.09	1 1/4	2,942.15	1 1/4	2,728.21	1 1/4	2,505.33	1 1/4	2,258.63	1 1/4	2,011.94	1 1/4	1,765.36	1 1/4	1,518.93		
1 1/2	1 1/2	3,366.61	1 1/2	3,151.63	1 1/2	2,937.69	1 1/2	2,723.76	1 1/2	2,500.19	1 1/2	2,253.49	1 1/2	2,006.80	1 1/2	1,760.23	1 1/2	1,513.79		
3 3/4	3 3/4	3,361.46	3 3/4	3,147.17	3 3/4	2,933.24	3 3/4	2,719.30	3 3/4	2,495.05	3 3/4	2,248.35	3 3/4	2,001.66	3 3/4	1,755.10	3 3/4	1,508.55		
4	4	3,356.65	4	3,142.71	4	2,928.78	4	2,714.84	4	2,489.91	4	2,243.21	4	1,996.52	4	1,749.97	4	1,503.51		
1 1/4	1 1/4	3,352.19	1 1/4	3,138.26	1 1/4	2,924.32	1 1/4	2,710.39	1 1/4	2,484.77	1 1/4	2,238.07	1 1/4	1,991.38	1 1/4	1,744.84	1 1/4	1,498.38		
1 1/2	1 1/2	3,347.74	1 1/2	3,133.80	1 1/2	2,919.86	1 1/2	2,705.93	1 1/2	2,479.63	1 1/2	2,232.93	1 1/2	1,986.24	1 1/2	1,739.71	1 1/2	1,493.24		
3 1/4	3 1/4	3,343.28	3 1/4	3,129.34	3 1/4	2,915.41	3 1/4	2,701.47	3 1/4	2,474.49	3 1/4	2,227.79	3 1/4	1,981.10	3 1/4	1,734.58	3 1/4	1,488.10		
5	5	3,338.82	5	3,124.89	5	2,910.95	5	2,697.01	5	2,469.35	5	2,222.65	5	1,975.96	5	1,729.44	5	1,482.97		
1 1/4	1 1/4	3,334.37	1 1/4	3,120.43	1 1/4	2,906.49	1 1/4	2,692.56	1 1/4	2,464.21	1 1/4	2,217.52	1 1/4	1,972.82	1 1/4	1,724.31	1 1/4	1,477.83		
1 1/2	1 1/2	3,329.91	1 1/2	3,115.97	1 1/2	2,902.04	1 1/2	2,688.10	1 1/2	2,459.07	1 1/2	2,212.38	1 1/2	1,965.68	1 1/2	1,719.18	1 1/2	1,472.69		
3 3/4	3 3/4	3,325.45	3 3/4	3,111.52	3 3/4	2,897.58	3 3/4	2,683.64	3 3/4	2,453.93	3 3/4	2,207.24	3 3/4	1,960.54	3 3/4	1,714.05	3 3/4	1,467.55		
6	6	3,320.99	6	3,107.06	6	2,893.12	6	2,679.19	6	2,448.79	6	2,202.10	6	1,955.40	6	1,708.92	6	1,462.42		
1 1/4	1 1/4	3,316.54	1 1/4	3,102.60	1 1/4	2,888.67	1 1/4	2,674.73	1 1/4	2,443.65	1 1/4	2,196.96	1 1/4	1,950.26	1 1/4	1,703.79	1 1/4	1,457.28		
1 1/2	1 1/2	3,312.08	1 1/2	3,098.14	1 1/2	2,884.21	1 1/2	2,670.27	1 1/2	2,438.51	1 1/2	2,191.82	1 1/2	1,945.12	1 1/2	1,698.65	1 1/2	1,452.14		
3 3/4	3 3/4	3,307.62	3 3/4	3,093.69	3 3/4	2,879.75	3 3/4	2,665.82	3 3/4	2,433.37	3 3/4	2,186.68	3 3/4	1,939.98	3 3/4	1,693.52	3 3/4	1,447.00		
7	7	3,303.17	7	3,089.23	7	2,875.29	7	2,661.36	7	2,428.23	7	2,181.54	7	1,934.84	7	1,688.39	7	1,441.87		
1 1/4	1 1/4	3,298.71	1 1/4	3,084.77	1 1/4	2,870.84	1 1/4	2,656.92	1 1/4	2,423.10	1 1/4	2,176.40	1 1/4	1,929.70	1 1/4	1,683.26	1 1/4	1,436.73		
1 1/2	1 1/2	3,294.25	1 1/2	3,080.32	1 1/2	2,866.38	1 1/2	2,652.48	1 1/2	2,417.96	1 1/2	2,171.26	1 1/2	1,924.56	1 1/2	1,678.13	1 1/2	1,431.59		
3 3/4	3 3/4	3,289.80	3 3/4	3,075.86	3 3/4	2,861.92	3 3/4	2,648.03	3 3/4	2,412.82	3 3/4	2,166.12	3 3/4	1,919.42	3 3/4	1,673.00	3 3/4	1,426.46		
8	8	3,285.34	8	3,071.40	8	2,857.47	8	2,643.59	8	2,407.68	8	2,160.98	8	1,914.28	8	1,667.86	8	1,421.32		
1 1/4	1 1/4	3,280.88	1 1/4	3,066.95	1 1/4	2,853.01	1 1/4	2,639.15	1 1/4	2,402.54	1 1/4	2,155.84	1 1/4	1,909.15	1 1/4	1,662.73	1 1/4	1,416.18		
1 1/2	1 1/2	3,276.42	1 1/2	3,062.49	1 1/2	2,848.55	1 1/2	2,634.70	1 1/2	2,397.40	1 1/2	2,150.70	1 1/2	1,904.01	1 1/2	1,657.60	1 1/2	1,411.04		
3 3/4	3 3/4	3,271.97	3 3/4	3,058.03	3 3/4	2,844.10	3 3/4	2,630.26	3 3/4	2,392.26	3 3/4	2,145.56	3 3/4	1,898.87	3 3/4	1,652.47	3 3/4	1,405.91		
9	9	3,267.51	9	3,053.57	9	2,839.64	9	2,625.81	9	2,387.12	9	2,140.42	9	1,893.73	9	1,647.34	9	1,400.77		
1 1/4	1 1/4	3,263.05	1 1/4	3,049.12	1 1/4	2,835.18	1 1/4	2,621.37	1 1/4	2,381.98	1 1/4	2,135.28	1 1/4	1,888.59	1 1/4	1,642.21	1 1/4	1,395.63		
1 1/2	1 1/2	3,258.60	1 1/2	3,044.66	1 1/2	2,830.72	1 1/2	2,616.93	1 1/2	2,376.84	1 1/2	2,130.14	1 1/2	1,883.45	1 1/2	1,637.07	1 1/2	1,390.50		
3 3/4	3 3/4	3,254.14	3 3/4	3,040.20	3 3/4	2,826.27	3 3/4	2,612.48	3 3/4	2,371.70	3 3/4	2,125.00	3 3/4	1,878.31	3 3/4	1,631.94	3 3/4	1,385.36		
10	10	3,249.68	10	3,035.75	10	2,821.81	10	2,608.04	10	2,366.56	10	2,119.86	10	1,873.17	10	1,626.81	10	1,380.22		
1 1/4	1 1/4	3,245.23	1 1/4	3,031.29	1 1/4	2,817.35	1 1/4	2,603.59	1 1/4	2,361.42	1 1/4	2,114.73	1 1/4	1,868.03	1 1/4	1,621.67	1 1/4	1,375.08		
1 1/2	1 1/2	3,240.77	1 1/2	3,026.83	1 1/2	2,812.90	1 1/2	2,599.15	1 1/2	2,356.28	1 1/2	2,109.59	1 1/2	1,862.89	1 1/2	1,616.53	1 1/2	1,369.95		
3 3/4	3 3/4	3,236.31	3 3/4	3,022.38	3 3/4	2,808.44	3 3/4	2,594.71	3 3/4	2,351.14	3 3/4	2,104.45	3 3/4	1,857.75	3 3/4	1,611.40	3 3/4	1,364.81		
11	11	3,231.85	11	3,017.92	11	2,803.98	11	2,590.26	11	2,346.00	11	2,099.31	11	1,852.61	11	1,606.26	11	1,359.67		
1 1/4	1 1/4	3,227.40	1 1/4	3,013.46	1 1/4	2,799.53	1 1/4	2,585.82	1 1/4	2,340.86	1 1/4	2,094.17	1 1/4	1,847.48	1 1/4	1,601.12	1 1/4	1,354.54		
1 1/2	1 1/2	3,222.94	1 1/2	3,009.00	1 1/2	2,795.07	1 1/2	2,581.38	1 1/2	2,335.72	1 1/2	2,089.03	1 1/2	1,842.34	1 1/2	1,595.98	1 1/2	1,349.40		
3 3/4	3 3/4	3,218.48	3 3/4	3,004.55	3 3/4	2,790.61	3 3/4	2,576.93	3 3/4	2,330.58	3 3/4	2,083.89	3 3/4	1,837.21	3 3/4	1,590.85	3 3/4	1,344.26		

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.



BARGE "KIRBY 10204"

1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "HFL 208S"

GAUGE HEIGHT 15'-06 7/8"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
0	1,339.12	0	1,092.54	0	845.95	0	599.07	0	359.65	0	111.36	0	0	0	0	0	0	0	0
1/4	1,331.99	1/4	1,087.40	1/4	840.82	1/4	594.07	1/4	353.50	1/4	106.21	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,328.85	1/2	1,082.26	1/2	835.68	1/2	589.07	1/2	348.35	1/2	101.06	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,323.71	3/4	1,077.13	3/4	830.54	3/4	584.08	3/4	343.21	3/4	95.90	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1,318.57	1	1,071.99	1	825.40	1	579.09	1	338.06	1	90.75	1	1	1	1	1	1	1	1
1 1/4	1,313.44	1 1/4	1,066.85	1 1/4	820.27	1 1/4	574.12	1 1/4	332.91	1 1/4	85.60	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	1,308.30	1 1/2	1,061.71	1 1/2	815.13	1 1/2	569.14	1 1/2	327.75	1 1/2	80.45	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	1,303.16	3/4	1,056.58	3/4	809.99	3/4	564.17	3/4	322.60	3/4	75.30	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,298.03	2	1,051.44	2	804.85	2	559.19	2	317.45	2	70.16	2	2	2	2	2	2	2	2
1 1/4	1,292.89	1 1/4	1,046.30	1 1/4	799.72	1 1/4	554.22	1 1/4	312.30	1 1/4	65.02	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	1,287.75	1 1/2	1,041.17	1 1/2	794.58	1 1/2	549.24	1 1/2	307.14	1 1/2	59.88	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	1,282.61	3/4	1,036.03	3/4	789.44	3/4	544.27	3/4	301.99	3/4	54.74	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,277.48	3	1,030.89	3	784.31	3	539.29	3	296.84	3	49.52	3	3	3	3	3	3	3	3
1 1/4	1,272.34	1 1/4	1,025.75	1 1/4	779.17	1 1/4	534.32	1 1/4	291.69	1 1/4	44.22	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 1/2	1,267.20	1 1/2	1,020.62	1 1/2	774.03	1 1/2	529.34	1 1/2	286.53	1 1/2	39.12	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	1,262.07	3/4	1,015.48	3/4	768.89	3/4	524.37	3/4	281.38	3/4	34.20	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,256.93	4	1,010.34	4	763.75	4	519.39	4	276.23	4	29.59	4	4	4	4	4	4	4	4
1 1/4	1,251.79	1 1/4	1,005.21	1 1/4	758.60	1 1/4	514.42	1 1/4	271.08	1 1/4	25.30	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	1,246.65	1 1/2	1,000.07	1 1/2	753.45	1 1/2	509.45	1 1/2	265.92	1 1/2	21.01	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	1,241.52	3/4	994.93	3/4	748.31	3/4	504.47	3/4	260.77	3/4	16.72	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,236.38	5	989.79	5	743.16	5	499.50	5	255.62	5	13.28	5	5	5	5	5	5	5	5
1 1/4	1,231.24	1 1/4	984.66	1 1/4	738.01	1 1/4	494.52	1 1/4	250.47	1 1/4	10.71	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	1,226.11	1 1/2	979.52	1 1/2	732.86	1 1/2	489.55	1 1/2	245.31	1 1/2	8.13	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	1,220.97	3/4	974.38	3/4	727.71	3/4	484.57	3/4	240.16	3/4	5.55	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,215.83	6	969.25	6	722.56	6	479.60	6	235.01	6	3.84	6	6	6	6	6	6	6	6
1 1/4	1,210.69	1 1/4	964.11	1 1/4	717.41	1 1/4	474.62	1 1/4	229.86	1 1/4	2.98	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	1,205.56	1 1/2	958.97	1 1/2	712.26	1 1/2	469.65	1 1/2	224.70	1 1/2	2.12	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	1,200.42	3/4	953.83	3/4	707.12	3/4	464.67	3/4	219.55	3/4	1.26	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,195.28	7	948.70	7	701.97	7	459.70	7	214.40	7	0.83	7	7	7	7	7	7	7	7
1 1/4	1,190.14	1 1/4	943.56	1 1/4	696.82	1 1/4	454.73	1 1/4	209.25	1 1/4	0.00	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	1,185.01	1 1/2	938.42	1 1/2	691.67	1 1/2	449.75	1 1/2	204.10	1 1/2	0.00	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	1,179.87	3/4	933.28	3/4	686.52	3/4	444.78	3/4	198.95	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,174.73	8	928.15	8	681.37	8	439.80	8	193.79	8	0.00	8	8	8	8	8	8	8	8
1 1/4	1,169.60	1 1/4	923.01	1 1/4	676.22	1 1/4	434.83	1 1/4	188.64	1 1/4	0.00	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	1,164.46	1 1/2	917.87	1 1/2	671.08	1 1/2	429.85	1 1/2	183.49	1 1/2	0.00	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	1,159.32	3/4	912.74	3/4	665.93	3/4	424.88	3/4	178.34	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,154.18	9	907.60	9	660.78	9	419.89	9	173.19	9	0.00	9	9	9	9	9	9	9	9
1 1/4	1,149.05	1 1/4	902.46	1 1/4	655.63	1 1/4	414.89	1 1/4	168.04	1 1/4	0.00	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	1,143.91	1 1/2	897.32	1 1/2	650.48	1 1/2	409.89	1 1/2	162.89	1 1/2	0.00	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	1,138.77	3/4	892.19	3/4	645.33	3/4	404.89	3/4	157.73	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,133.64	10	887.05	10	640.18	10	399.82	10	152.58	10	0.00	10	10	10	10	10	10	10	10
1 1/4	1,128.50	1 1/4	881.91	1 1/4	635.03	1 1/4	394.66	1 1/4	147.43	1 1/4	0.00	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	1,123.36	1 1/2	876.78	1 1/2	629.89	1 1/2	389.51	1 1/2	142.28	1 1/2	0.00	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	1,118.22	3/4	871.64	3/4	624.74	3/4	384.36	3/4	137.12	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,113.09	11	866.50	11	619.59	11	379.21	11	131.97	11	0.00	11	11	11	11	11	11	11	11
1 1/4	1,107.95	1 1/4	861.36	1 1/4	614.44	1 1/4	374.07	1 1/4	126.82	1 1/4	0.00	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	1,102.81	1 1/2	856.23	1 1/2	609.29	1 1/2	368.93	1 1/2	121.67	1 1/2	0.00	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	1,097.68	3/4	851.09	3/4	604.14	3/4	363.79	3/4	116.51	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/18/2008 CL - SW
 CALCULATED: 12/15/2008 CL
 PRINTED: 12/15/2008 CL
 CANCELS AND SUPERCEDES
 ALL PRIOR TO 12/2008

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77569
 http://www.pmaCorp.net



BARGE "KIRBY 10204"

2 CENTER ULLAGE TABLE

FORMERLY "HFL 208S"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
N	IN	N	IN	N	IN	N	IN	N	IN	N	IN	N	IN	N	IN	N	IN	N	IN
0	0	3,970.76	0	3,706.92	0	3,430.56	0	3,154.19	0	2,877.83	0	2,601.47	0	2,325.10	0	2,048.74	0	1,772.37	0
1/4	1/4	3,967.88	1/4	3,704.04	1/4	3,427.68	1/4	3,150.31	1/4	2,874.95	1/4	2,598.59	1/4	2,322.22	1/4	2,045.86	1/4	1,769.49	1/4
1/2	1/2	3,965.00	1/2	3,698.16	1/2	3,420.80	1/2	3,146.43	1/2	2,870.58	1/2	2,594.22	1/2	2,317.85	1/2	2,042.98	1/2	1,766.61	1/2
3/4	3/4	3,962.12	3/4	3,693.28	3/4	3,415.94	3/4	3,141.57	3/4	2,866.21	3/4	2,589.85	3/4	2,313.98	3/4	2,039.01	3/4	1,763.74	3/4
1	1	3,957.34	1	3,688.50	1	3,411.10	1	3,137.20	1	2,861.80	1	2,584.44	1	2,309.01	1	2,034.14	1	1,758.87	1
1 1/4	1 1/4	3,952.56	1 1/4	3,683.72	1 1/4	3,406.62	1 1/4	3,132.71	1 1/4	2,857.31	1 1/4	2,579.97	1 1/4	2,304.12	1 1/4	2,029.25	1 1/4	1,754.00	1 1/4
1 1/2	1 1/2	3,947.77	1 1/2	3,678.94	1 1/2	3,402.14	1 1/2	3,128.22	1 1/2	2,852.82	1 1/2	2,575.48	1 1/2	2,299.19	1 1/2	2,024.38	1 1/2	1,749.13	1 1/2
3/4	3/4	3,942.99	3/4	3,674.16	3/4	3,400.26	3/4	3,126.34	3/4	2,850.94	3/4	2,573.60	3/4	2,297.27	3/4	2,022.50	3/4	1,747.25	3/4
2	2	3,937.23	2	3,669.40	2	3,395.50	2	3,121.85	2	2,846.45	2	2,569.11	2	2,292.34	2	2,017.63	2	1,742.38	2
2 1/4	2 1/4	3,931.47	2 1/4	3,664.62	2 1/4	3,390.72	2 1/4	3,117.36	2 1/4	2,841.96	2 1/4	2,564.62	2 1/4	2,287.41	2 1/4	2,012.75	2 1/4	1,737.51	2 1/4
1 1/2	1 1/2	3,925.71	1 1/2	3,659.84	1 1/2	3,385.94	1 1/2	3,112.87	1 1/2	2,837.50	1 1/2	2,560.16	1 1/2	2,282.46	1 1/2	2,007.79	1 1/2	1,732.64	1 1/2
3/4	3/4	3,919.96	3/4	3,655.06	3/4	3,381.16	3/4	3,108.38	3/4	2,832.58	3/4	2,555.32	3/4	2,277.51	3/4	2,002.91	3/4	1,727.77	3/4
3	3	3,914.20	3	3,650.28	3	3,376.38	3	3,103.50	3	2,827.60	3	2,550.44	3	2,272.54	3	1,998.03	3	1,722.90	3
3 1/4	3 1/4	3,908.44	3 1/4	3,645.50	3 1/4	3,371.58	3 1/4	3,100.00	3 1/4	2,822.62	3 1/4	2,545.58	3 1/4	2,267.57	3 1/4	1,993.15	3 1/4	1,718.03	3 1/4
1 1/2	1 1/2	3,902.68	1 1/2	3,640.72	1 1/2	3,366.66	1 1/2	3,095.50	1 1/2	2,817.64	1 1/2	2,540.62	1 1/2	2,262.60	1 1/2	1,988.22	1 1/2	1,713.16	1 1/2
3/4	3/4	3,896.93	3/4	3,635.94	3/4	3,356.74	3/4	3,090.62	3/4	2,812.66	3/4	2,535.64	3/4	2,257.63	3/4	1,983.29	3/4	1,708.29	3/4
4	4	3,891.17	4	3,631.16	4	3,351.82	4	3,085.70	4	2,807.68	4	2,530.66	4	2,252.66	4	1,978.36	4	1,703.42	4
4 1/4	4 1/4	3,885.41	4 1/4	3,626.38	4 1/4	3,346.89	4 1/4	3,080.72	4 1/4	2,802.70	4 1/4	2,525.68	4 1/4	2,247.69	4 1/4	1,973.43	4 1/4	1,698.55	4 1/4
1 1/2	1 1/2	3,879.65	1 1/2	3,621.60	1 1/2	3,341.91	1 1/2	3,075.76	1 1/2	2,797.72	1 1/2	2,520.64	1 1/2	2,242.72	1 1/2	1,968.50	1 1/2	1,693.68	1 1/2
3/4	3/4	3,873.89	3/4	3,616.82	3/4	3,337.00	3/4	3,070.80	3/4	2,792.74	3/4	2,515.52	3/4	2,237.75	3/4	1,963.57	3/4	1,688.75	3/4
5	5	3,868.14	5	3,612.04	5	3,332.08	5	3,065.84	5	2,787.76	5	2,510.54	5	2,232.76	5	1,958.64	5	1,683.82	5
5 1/4	5 1/4	3,862.38	5 1/4	3,607.26	5 1/4	3,327.16	5 1/4	3,060.88	5 1/4	2,782.78	5 1/4	2,505.56	5 1/4	2,227.77	5 1/4	1,953.71	5 1/4	1,678.89	5 1/4
1 1/2	1 1/2	3,856.62	1 1/2	3,602.48	1 1/2	3,322.24	1 1/2	3,055.92	1 1/2	2,777.80	1 1/2	2,500.60	1 1/2	2,222.78	1 1/2	1,948.78	1 1/2	1,674.00	1 1/2
3/4	3/4	3,850.86	3/4	3,597.70	3/4	3,317.32	3/4	3,050.96	3/4	2,772.82	3/4	2,495.68	3/4	2,217.79	3/4	1,943.85	3/4	1,669.07	3/4
6	6	3,845.11	6	3,592.92	6	3,312.40	6	3,046.00	6	2,767.84	6	2,490.76	6	2,212.79	6	1,938.92	6	1,664.14	6
6 1/4	6 1/4	3,839.35	6 1/4	3,588.14	6 1/4	3,307.48	6 1/4	3,041.04	6 1/4	2,762.86	6 1/4	2,485.78	6 1/4	2,207.80	6 1/4	1,934.00	6 1/4	1,659.21	6 1/4
1 1/2	1 1/2	3,833.59	1 1/2	3,583.36	1 1/2	3,302.56	1 1/2	3,036.08	1 1/2	2,757.88	1 1/2	2,480.80	1 1/2	2,202.80	1 1/2	1,929.07	1 1/2	1,654.28	1 1/2
3/4	3/4	3,827.83	3/4	3,578.60	3/4	3,297.64	3/4	3,031.12	3/4	2,752.90	3/4	2,475.82	3/4	2,197.81	3/4	1,924.14	3/4	1,649.35	3/4
7	7	3,822.08	7	3,573.82	7	3,292.72	7	3,026.16	7	2,747.92	7	2,470.84	7	2,192.82	7	1,919.21	7	1,644.42	7
7 1/4	7 1/4	3,816.32	7 1/4	3,569.04	7 1/4	3,287.80	7 1/4	3,021.20	7 1/4	2,742.94	7 1/4	2,465.86	7 1/4	2,187.83	7 1/4	1,914.28	7 1/4	1,639.49	7 1/4
1 1/2	1 1/2	3,810.56	1 1/2	3,564.26	1 1/2	3,282.88	1 1/2	3,016.24	1 1/2	2,737.96	1 1/2	2,460.88	1 1/2	2,182.82	1 1/2	1,909.35	1 1/2	1,634.56	1 1/2
3/4	3/4	3,804.80	3/4	3,559.48	3/4	3,277.96	3/4	3,011.28	3/4	2,732.98	3/4	2,455.90	3/4	2,177.81	3/4	1,904.42	3/4	1,629.63	3/4
8	8	3,799.05	8	3,554.70	8	3,273.04	8	3,006.32	8	2,728.00	8	2,450.92	8	2,172.80	8	1,900.00	8	1,624.70	8
8 1/4	8 1/4	3,793.29	8 1/4	3,549.92	8 1/4	3,268.12	8 1/4	3,001.36	8 1/4	2,723.02	8 1/4	2,445.94	8 1/4	2,167.79	8 1/4	1,895.07	8 1/4	1,619.77	8 1/4
1 1/2	1 1/2	3,787.53	1 1/2	3,545.14	1 1/2	3,263.20	1 1/2	2,996.40	1 1/2	2,718.04	1 1/2	2,440.96	1 1/2	2,162.76	1 1/2	1,890.14	1 1/2	1,614.84	1 1/2
3/4	3/4	3,781.77	3/4	3,540.36	3/4	3,258.28	3/4	2,991.44	3/4	2,713.06	3/4	2,435.98	3/4	2,157.69	3/4	1,885.21	3/4	1,609.91	3/4
9	9	3,776.02	9	3,535.58	9	3,253.32	9	2,986.48	9	2,708.08	9	2,430.99	9	2,152.61	9	1,880.28	9	1,605.00	9
9 1/4	9 1/4	3,770.26	9 1/4	3,530.80	9 1/4	3,248.40	9 1/4	2,981.52	9 1/4	2,703.10	9 1/4	2,426.01	9 1/4	2,147.53	9 1/4	1,875.35	9 1/4	1,600.07	9 1/4
1 1/2	1 1/2	3,764.50	1 1/2	3,526.02	1 1/2	3,243.44	1 1/2	2,976.56	1 1/2	2,698.12	1 1/2	2,421.02	1 1/2	2,142.55	1 1/2	1,870.42	1 1/2	1,595.14	1 1/2
3/4	3/4	3,758.74	3/4	3,521.24	3/4	3,238.48	3/4	2,971.60	3/4	2,693.14	3/4	2,416.04	3/4	2,137.57	3/4	1,865.49	3/4	1,590.21	3/4
10	10	3,752.99	10	3,516.46	10	3,233.52	10	2,966.64	10	2,688.16	10	2,411.06	10	2,132.59	10	1,860.56	10	1,585.28	10
10 1/4	10 1/4	3,747.23	10 1/4	3,511.68	10 1/4	3,228.56	10 1/4	2,961.68	10 1/4	2,683.18	10 1/4	2,406.08	10 1/4	2,127.61	10 1/4	1,855.63	10 1/4	1,580.35	10 1/4
1 1/2	1 1/2	3,741.47	1 1/2	3,511.17	1 1/2	3,223.60	1 1/2	2,956.72	1 1/2	2,678.20	1 1/2	2,401.10	1 1/2	2,122.63	1 1/2	1,850.70	1 1/2	1,575.42	1 1/2
3/4	3/4	3,735.71	3/4	3,506.41	3/4	3,218.64	3/4	2,951.76	3/4	2,673.22	3/4	2,396.12	3/4	2,117.65	3/4	1,845.77	3/4	1,570.49	3/4
11	11	3,729.95	11	3,501.64	11	3,213.68	11	2,946.80	11	2,668.24	11	2,391.14	11	2,112.67	11	1,840.84	11	1,565.56	11
11 1/4	11 1/4	3,724.20	11 1/4	3,496.86	11 1/4	3,208.72	11 1/4	2,941.84	11 1/4	2,663.26	11 1/4	2,386.16	11 1/4	2,107.70	11 1/4	1,835.91	11 1/4	1,560.63	11 1/4
1 1/2	1 1/2	3,718.44	1 1/2	3,491.88	1 1/2	3,203.76	1 1/2	2,936.88	1 1/2	2,658.28	1 1/2	2,381.18	1 1/2	2,102.73	1 1/2	1,831.00	1 1/2	1,555.70	1 1/2
3/4	3/4	3,712.68	3/4	3,487.10	3/4	3,198.80	3/4	2,931.92	3/4	2,653.30	3/4	2,376.20	3/4	2,097.76	3/4	1,826.07	3/4	1,550.77	3/4
12	12	3,706.92	12	3,482.32	12	3,193.84	12	2,927.00	12	2,648.32	12	2,371.22	12	2,092.79	12	1,821.14	12	1,545.84	12
12 1/4	12 1/4	3,701.16	12 1/4	3,477.54	12 1/4	3,188.88	12 1/4	2,922.04	12 1/4	2,643.34	12 1/4	2,366.24	12 1/4	2,087.81	12 1/4	1,816.21	12 1/4	1,540.91	12 1/4
1 1/2	1 1/2	3,695.40	1 1/2	3,472.76	1 1/2	3,183.92	1 1/2	2,917.08	1 1/2	2,638.36	1 1/2	2,361.16	1 1/2	2,082.83	1 1/2	1,811.28	1 1/2	1,536.00	1 1/2
3/4	3/4	3,689.64	3/4	3,467.98	3/4	3,179.00	3/4	2,912.12	3/4	2,633.38	3/4	2,356.04	3/4	2,077.86	3/4	1,806.35	3/4	1,531.07	3/4
13	13	3,683.88	13	3,463.20	13	3,174.04	13	2,907.16	13	2,628.40	13	2,350.96	13	2,072.89	13	1,801.42	13	1,526.14	13
13 1/4	13 1/4	3,678.12	13 1/4	3,458.42	13 1/4	3,169.08	13 1/4	2,902.20	13 1/4	2,623.42	13 1/4	2,345.88	13 1/4	2,067.91	13 1/4	1,796.49	13 1/4	1,521.21	13 1/4
1 1/2	1 1/2	3,672.36	1 1/2	3,453.64	1 1/2	3,164.12	1 1/2	2,897.24	1 1/2	2,618.44	1 1/2	2,340.80	1 1/2	2,062.93	1 1/2	1,791.56	1 1/2	1,516.28	1 1/2
3/4																			



BARGE "KIRBY 10204"

2 CENTER ULLAGE TABLE

FORMERLY "HFL 208S"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS		10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
N		N	IN	N	IN	N	IN	N	IN	N	IN	N	IN	N	IN	N	IN	N	IN	N	IN
0	1,496.01	0	1,219.64	0	943.28	0	667.09	0	397.82	0	121.46	0		0		0		0		0	
1/4	1,490.25	1/4	1,213.88	1/4	937.52	1/4	661.50	1/4	392.07	1/4	115.70	1/4		1/4		1/4		1/4		1/4	
1/2	1,484.49	1/2	1,208.13	1/2	931.76	1/2	655.92	1/2	386.30	1/2	109.95	1/2		1/2		1/2		1/2		1/2	
3/4	1,478.73	3/4	1,202.37	3/4	926.00	3/4	650.34	3/4	380.54	3/4	104.19	3/4		3/4		3/4		3/4		3/4	
1	1,472.98	1	1,196.61	1	920.25	1	644.76	1	374.78	1	98.43	1		1		1		1		1	
1 1/4	1,467.22	1 1/4	1,190.85	1 1/4	914.49	1 1/4	639.19	1 1/4	369.02	1 1/4	92.68	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,461.46	1 1/2	1,185.10	1 1/2	908.73	1 1/2	633.61	1 1/2	363.27	1 1/2	86.92	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,455.70	3/4	1,179.34	3/4	902.97	3/4	628.04	3/4	357.51	3/4	81.17	3/4		3/4		3/4		3/4		3/4	
2	1,449.95	2	1,173.58	2	897.22	2	622.46	2	351.75	2	75.42	2		2		2		2		2	
1 1/4	1,444.19	1 1/4	1,167.82	1 1/4	891.46	1 1/4	616.89	1 1/4	345.99	1 1/4	69.68	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,438.43	1 1/2	1,162.07	1 1/2	885.70	1 1/2	611.32	1 1/2	340.24	1 1/2	63.94	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,432.67	3/4	1,156.31	3/4	879.94	3/4	605.74	3/4	334.48	3/4	58.20	3/4		3/4		3/4		3/4		3/4	
3	1,426.91	3	1,150.55	3	874.19	3	600.17	3	328.72	3	52.28	3		3		3		3		3	
1 1/4	1,421.16	1 1/4	1,144.79	1 1/4	868.43	1 1/4	594.59	1 1/4	322.96	1 1/4	46.36	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,415.40	1 1/2	1,139.03	1 1/2	862.67	1 1/2	589.02	1 1/2	317.21	1 1/2	40.85	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,409.64	3/4	1,133.28	3/4	856.91	3/4	583.45	3/4	311.45	3/4	35.37	3/4		3/4		3/4		3/4		3/4	
4	1,403.88	4	1,127.52	4	851.15	4	577.87	4	305.69	4	30.57	4		4		4		4		4	
1 1/4	1,398.13	1 1/4	1,121.76	1 1/4	845.40	1 1/4	572.30	1 1/4	299.93	1 1/4	26.78	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,392.37	1 1/2	1,116.00	1 1/2	839.64	1 1/2	566.72	1 1/2	294.18	1 1/2	20.98	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,386.61	3/4	1,110.25	3/4	833.88	3/4	561.15	3/4	288.42	3/4	16.19	3/4		3/4		3/4		3/4		3/4	
5	1,380.85	5	1,104.49	5	828.12	5	555.57	5	282.66	5	13.31	5		5		5		5		5	
1 1/4	1,375.10	1 1/4	1,098.73	1 1/4	822.37	1 1/4	550.00	1 1/4	276.91	1 1/4	10.43	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,369.34	1 1/2	1,092.97	1 1/2	816.61	1 1/2	544.43	1 1/2	271.15	1 1/2	7.55	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,363.58	3/4	1,087.22	3/4	810.85	3/4	538.85	3/4	265.39	3/4	4.67	3/4		3/4		3/4		3/4		3/4	
6	1,357.82	6	1,081.46	6	805.09	6	533.28	6	259.63	6	3.71	6		6		6		6		6	
1 1/4	1,352.07	1 1/4	1,075.70	1 1/4	799.34	1 1/4	527.70	1 1/4	253.88	1 1/4	2.75	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,346.31	1 1/2	1,069.94	1 1/2	793.58	1 1/2	522.13	1 1/2	248.12	1 1/2	1.79	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,340.55	3/4	1,064.19	3/4	787.82	3/4	516.56	3/4	242.36	3/4	0.83	3/4		3/4		3/4		3/4		3/4	
7	1,334.79	7	1,058.43	7	782.06	7	510.98	7	236.61	7		7		7		7		7		7	
1 1/4	1,329.04	1 1/4	1,052.67	1 1/4	776.31	1 1/4	505.41	1 1/4	230.85	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,323.28	1 1/2	1,046.91	1 1/2	770.55	1 1/2	499.83	1 1/2	225.09	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,317.52	3/4	1,041.16	3/4	764.79	3/4	494.26	3/4	219.33	3/4		3/4		3/4		3/4		3/4		3/4	
8	1,311.76	8	1,035.40	8	759.03	8	488.68	8	213.58	8		8		8		8		8		8	
1 1/4	1,306.01	1 1/4	1,029.64	1 1/4	753.28	1 1/4	483.11	1 1/4	207.82	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,300.25	1 1/2	1,023.88	1 1/2	747.52	1 1/2	477.54	1 1/2	202.06	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,294.49	3/4	1,018.13	3/4	741.76	3/4	471.96	3/4	196.31	3/4		3/4		3/4		3/4		3/4		3/4	
9	1,288.73	9	1,012.37	9	736.00	9	466.38	9	190.55	9		9		9		9		9		9	
1 1/4	1,282.97	1 1/4	1,006.61	1 1/4	730.25	1 1/4	460.79	1 1/4	184.79	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,277.22	1 1/2	1,000.85	1 1/2	724.49	1 1/2	455.21	1 1/2	179.03	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,271.46	3/4	995.09	3/4	718.73	3/4	449.63	3/4	173.28	3/4		3/4		3/4		3/4		3/4		3/4	
10	1,265.70	10	989.34	10	712.97	10	443.87	10	167.52	10		10		10		10		10		10	
1 1/4	1,259.94	1 1/4	983.58	1 1/4	707.21	1 1/4	438.11	1 1/4	161.76	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,254.19	1 1/2	977.82	1 1/2	701.46	1 1/2	432.36	1 1/2	156.00	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,248.43	3/4	972.06	3/4	695.70	3/4	426.60	3/4	150.25	3/4		3/4		3/4		3/4		3/4		3/4	
11	1,242.67	11	966.31	11	689.94	11	420.84	11	144.49	11		11		11		11		11		11	
1 1/4	1,236.91	1 1/4	960.55	1 1/4	684.18	1 1/4	415.08	1 1/4	138.73	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,231.16	1 1/2	954.79	1 1/2	678.43	1 1/2	409.33	1 1/2	132.98	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,225.40	3/4	949.03	3/4	672.67	3/4	403.57	3/4	127.22	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/15/2008 CL - SW
 CALCULATED: 12/15/2008 CL
 PRINTED: 12/15/2008 CL
 CANCEL AND SUPERCEDES
 ALL PRIOR TO 12/2008

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



BARGE "KIRBY 10204"

3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "HFL 2085"

GAUGE HEIGHT 15'-07 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	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	
0	0	3,529.26	0	3,302.12	0	3,057.15	0	2,812.18	0	2,567.22	0	2,322.25	0	2,077.28	0	1,832.31	0	1,587.34		
1/4	1/4	3,528.41	1/4	3,297.02	1/4	3,052.05	1/4	2,807.08	1/4	2,562.11	1/4	2,317.14	1/4	2,072.17	1/4	1,827.20	1/4	1,582.24		
1/2	1/2	3,525.85	1/2	3,291.91	1/2	3,046.94	1/2	2,801.98	1/2	2,557.01	1/2	2,312.04	1/2	2,067.07	1/2	1,822.10	1/2	1,577.14		
3/4	3/4	3,523.30	3/4	3,286.81	3/4	3,041.84	3/4	2,796.87	3/4	2,551.90	3/4	2,306.94	3/4	2,061.97	3/4	1,817.00	3/4	1,572.03		
1	1	3,520.75	1	3,281.71	1	3,036.74	1	2,791.77	1	2,546.80	1	2,301.83	1	2,056.87	1	1,811.90	1	1,566.93		
1/4	1/4	3,518.20	1/4	3,276.60	1/4	3,031.63	1/4	2,786.67	1/4	2,541.70	1/4	2,296.73	1/4	2,051.76	1/4	1,806.79	1/4	1,561.83		
1/2	1/2	3,513.94	1/2	3,271.50	1/2	3,026.53	1/2	2,781.56	1/2	2,536.59	1/2	2,291.63	1/2	2,046.66	1/2	1,801.69	1/2	1,556.72		
3/4	3/4	3,509.68	3/4	3,266.39	3/4	3,021.43	3/4	2,776.46	3/4	2,531.49	3/4	2,286.52	3/4	2,041.55	3/4	1,796.59	3/4	1,551.62		
2	2	3,505.42	2	3,261.29	2	3,016.32	2	2,771.36	2	2,526.39	2	2,281.42	2	2,036.45	2	1,791.48	2	1,546.52		
1/4	1/4	3,501.16	1/4	3,256.19	1/4	3,011.22	1/4	2,766.25	1/4	2,521.28	1/4	2,276.32	1/4	2,031.35	1/4	1,786.38	1/4	1,541.41		
1/2	1/2	3,496.05	1/2	3,251.08	1/2	3,006.12	1/2	2,761.15	1/2	2,516.18	1/2	2,271.21	1/2	2,026.24	1/2	1,781.28	1/2	1,536.31		
3/4	3/4	3,490.95	3/4	3,245.98	3/4	3,001.01	3/4	2,756.04	3/4	2,511.08	3/4	2,266.11	3/4	2,021.14	3/4	1,776.17	3/4	1,531.20		
3	3	3,485.85	3	3,240.88	3	2,995.91	3	2,750.94	3	2,505.97	3	2,261.01	3	2,016.04	3	1,771.07	3	1,526.10		
1/4	1/4	3,480.74	1/4	3,235.77	1/4	2,990.81	1/4	2,745.84	1/4	2,500.87	1/4	2,255.90	1/4	2,010.93	1/4	1,765.97	1/4	1,521.00		
1/2	1/2	3,475.64	1/2	3,230.67	1/2	2,985.70	1/2	2,740.73	1/2	2,495.77	1/2	2,250.80	1/2	2,005.83	1/2	1,760.86	1/2	1,515.89		
3/4	3/4	3,470.53	3/4	3,225.57	3/4	2,980.60	3/4	2,735.63	3/4	2,490.66	3/4	2,245.69	3/4	2,000.73	3/4	1,755.76	3/4	1,510.79		
4	4	3,465.43	4	3,220.46	4	2,975.50	4	2,730.53	4	2,485.56	4	2,240.59	4	2,000.62	4	1,755.65	4	1,505.69		
1/4	1/4	3,460.33	1/4	3,215.36	1/4	2,970.39	1/4	2,725.42	1/4	2,480.46	1/4	2,235.49	1/4	1,990.52	1/4	1,745.55	1/4	1,500.58		
1/2	1/2	3,455.22	1/2	3,210.26	1/2	2,965.29	1/2	2,720.32	1/2	2,475.35	1/2	2,230.38	1/2	1,985.42	1/2	1,740.45	1/2	1,495.48		
3/4	3/4	3,450.12	3/4	3,205.15	3/4	2,960.18	3/4	2,715.22	3/4	2,470.25	3/4	2,225.28	3/4	1,980.31	3/4	1,735.34	3/4	1,490.38		
5	5	3,445.02	5	3,200.05	5	2,955.08	5	2,710.11	5	2,465.15	5	2,220.18	5	1,975.21	5	1,730.24	5	1,485.27		
1/4	1/4	3,439.91	1/4	3,194.95	1/4	2,949.98	1/4	2,705.01	1/4	2,460.04	1/4	2,215.07	1/4	1,970.11	1/4	1,725.14	1/4	1,480.17		
1/2	1/2	3,434.81	1/2	3,189.84	1/2	2,944.87	1/2	2,699.91	1/2	2,454.94	1/2	2,209.97	1/2	1,965.00	1/2	1,720.03	1/2	1,475.07		
3/4	3/4	3,429.71	3/4	3,184.74	3/4	2,939.77	3/4	2,694.80	3/4	2,449.83	3/4	2,204.87	3/4	1,959.90	3/4	1,714.93	3/4	1,470.96		
6	6	3,424.60	6	3,179.64	6	2,934.67	6	2,689.70	6	2,444.73	6	2,199.76	6	1,954.80	6	1,709.83	6	1,465.86		
1/4	1/4	3,419.50	1/4	3,174.53	1/4	2,929.56	1/4	2,684.60	1/4	2,439.63	1/4	2,194.66	1/4	1,949.69	1/4	1,704.72	1/4	1,459.76		
1/2	1/2	3,414.40	1/2	3,169.43	1/2	2,924.46	1/2	2,679.49	1/2	2,434.52	1/2	2,189.56	1/2	1,944.59	1/2	1,699.62	1/2	1,454.65		
3/4	3/4	3,409.29	3/4	3,164.32	3/4	2,919.36	3/4	2,674.39	3/4	2,429.42	3/4	2,184.45	3/4	1,939.48	3/4	1,694.52	3/4	1,449.55		
7	7	3,404.19	7	3,159.22	7	2,914.25	7	2,669.29	7	2,424.32	7	2,179.35	7	1,934.38	7	1,689.41	7	1,444.45		
1/4	1/4	3,399.09	1/4	3,154.12	1/4	2,909.15	1/4	2,664.18	1/4	2,419.21	1/4	2,174.25	1/4	1,929.28	1/4	1,684.31	1/4	1,439.34		
1/2	1/2	3,393.98	1/2	3,149.01	1/2	2,904.05	1/2	2,659.08	1/2	2,414.11	1/2	2,169.14	1/2	1,924.17	1/2	1,679.21	1/2	1,434.24		
3/4	3/4	3,388.88	3/4	3,143.91	3/4	2,898.94	3/4	2,653.97	3/4	2,409.01	3/4	2,164.04	3/4	1,919.07	3/4	1,674.10	3/4	1,429.13		
8	8	3,383.78	8	3,138.81	8	2,893.84	8	2,648.87	8	2,403.90	8	2,159.04	8	1,913.97	8	1,669.00	8	1,424.03		
1/4	1/4	3,378.67	1/4	3,133.70	1/4	2,888.74	1/4	2,643.77	1/4	2,398.80	1/4	2,153.83	1/4	1,908.86	1/4	1,663.90	1/4	1,418.93		
1/2	1/2	3,373.57	1/2	3,128.60	1/2	2,883.63	1/2	2,638.66	1/2	2,393.70	1/2	2,148.73	1/2	1,903.76	1/2	1,658.79	1/2	1,413.82		
3/4	3/4	3,368.46	3/4	3,123.50	3/4	2,878.53	3/4	2,633.56	3/4	2,388.59	3/4	2,143.62	3/4	1,898.66	3/4	1,653.69	3/4	1,408.72		
9	9	3,363.36	9	3,118.39	9	2,873.43	9	2,628.46	9	2,383.49	9	2,138.52	9	1,893.56	9	1,648.59	9	1,403.62		
1/4	1/4	3,358.26	1/4	3,113.29	1/4	2,868.32	1/4	2,623.35	1/4	2,378.39	1/4	2,133.42	1/4	1,888.45	1/4	1,643.48	1/4	1,398.51		
1/2	1/2	3,353.15	1/2	3,108.19	1/2	2,863.22	1/2	2,618.25	1/2	2,373.28	1/2	2,128.31	1/2	1,883.38	1/2	1,638.38	1/2	1,393.41		
3/4	3/4	3,348.05	3/4	3,103.08	3/4	2,858.11	3/4	2,613.15	3/4	2,368.18	3/4	2,123.21	3/4	1,878.24	3/4	1,633.27	3/4	1,388.31		
10	10	3,342.95	10	3,097.98	10	2,853.01	10	2,608.04	10	2,363.08	10	2,118.11	10	1,873.14	10	1,628.17	10	1,383.20		
1/4	1/4	3,337.84	1/4	3,092.88	1/4	2,847.91	1/4	2,602.94	1/4	2,357.97	1/4	2,113.00	1/4	1,868.04	1/4	1,623.07	1/4	1,378.10		
1/2	1/2	3,332.74	1/2	3,087.77	1/2	2,842.80	1/2	2,597.84	1/2	2,352.87	1/2	2,107.90	1/2	1,862.93	1/2	1,617.96	1/2	1,373.00		
3/4	3/4	3,327.64	3/4	3,082.67	3/4	2,837.70	3/4	2,592.73	3/4	2,347.76	3/4	2,102.80	3/4	1,857.83	3/4	1,612.86	3/4	1,367.89		
11	11	3,322.53	11	3,077.57	11	2,832.60	11	2,587.63	11	2,342.66	11	2,097.69	11	1,852.73	11	1,607.76	11	1,362.79		
1/4	1/4	3,317.43	1/4	3,072.46	1/4	2,827.49	1/4	2,582.53	1/4	2,337.56	1/4	2,092.59	1/4	1,847.62	1/4	1,602.65	1/4	1,357.69		
1/2	1/2	3,312.33	1/2	3,067.36	1/2	2,822.39	1/2	2,577.42	1/2	2,332.45	1/2	2,087.49	1/2	1,842.52	1/2	1,597.55	1/2	1,352.58		
3/4	3/4	3,307.22	3/4	3,062.25	3/4	2,817.29	3/4	2,572.32	3/4	2,327.35	3/4	2,082.38	3/4	1,837.41	3/4	1,592.45	3/4	1,347.48		

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 TO THE THREADS ON "MMC" STANDPIPE.

GAUGE POINT: (MMC) LOCATED ON CENTERLINE AND 25'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77668
<http://www.pmacorp.net>



BARGE "KIRBY 10204"

3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "HFL 208S"

GAUGE HEIGHT 15'-07 1/4"

	10 FT.	11 FT.	12 FT.	13 FT.	14 FT.	15 FT.	16 FT.	17 FT.	18 FT.	19 FT.
0	1,342.38	0	1,097.41	0	852.44	0	607.47	0	362.92	0
1/4	1,337.27	1/4	1,092.30	1/4	847.34	1/4	602.37	1/4	357.82	1/4
1/2	1,332.17	1/2	1,087.20	1/2	842.23	1/2	597.27	1/2	352.72	1/2
3/4	1,327.06	3/4	1,082.10	3/4	837.13	3/4	592.18	3/4	347.61	3/4
1	1,321.96	1	1,076.99	1	832.03	1	587.08	1	342.51	1
1 1/4	1,316.86	1 1/4	1,071.89	1 1/4	826.92	1 1/4	581.98	1 1/4	337.41	1 1/4
1 1/2	1,311.75	1 1/2	1,066.79	1 1/2	821.82	1 1/2	576.89	1 1/2	332.30	1 1/2
3/4	1,306.65	3/4	1,061.68	3/4	816.71	3/4	571.80	3/4	327.20	3/4
2	1,301.55	2	1,056.58	2	811.61	2	566.71	2	322.10	2
1 1/4	1,296.44	1 1/4	1,051.48	1 1/4	806.51	1 1/4	561.61	1 1/4	317.04	1 1/4
1 1/2	1,291.34	1 1/2	1,046.37	1 1/2	801.40	1 1/2	556.52	1 1/2	311.99	1 1/2
3/4	1,286.24	3/4	1,041.27	3/4	796.30	3/4	551.43	3/4	306.93	3/4
3	1,281.13	3	1,036.17	3	791.20	3	546.34	3	301.88	3
1 1/4	1,276.03	1 1/4	1,031.06	1 1/4	786.09	1 1/4	541.25	1 1/4	296.88	1 1/4
1 1/2	1,270.93	1 1/2	1,025.96	1 1/2	780.99	1 1/2	536.15	1 1/2	291.88	1 1/2
3/4	1,265.82	3/4	1,020.85	3/4	775.89	3/4	531.06	3/4	286.87	3/4
4	1,260.72	4	1,015.75	4	770.78	4	525.97	4	281.87	4
1 1/4	1,255.62	1 1/4	1,010.65	1 1/4	765.68	1 1/4	520.88	1 1/4	276.87	1 1/4
1 1/2	1,250.51	1 1/2	1,005.54	1 1/2	760.58	1 1/2	515.78	1 1/2	271.86	1 1/2
3/4	1,245.41	3/4	1,000.44	3/4	755.47	3/4	510.69	3/4	266.86	3/4
5	1,240.31	5	995.34	5	750.37	5	505.60	5	261.86	5
1 1/4	1,235.20	1 1/4	990.23	1 1/4	745.27	1 1/4	500.51	1 1/4	256.86	1 1/4
1 1/2	1,230.10	1 1/2	985.13	1 1/2	740.16	1 1/2	495.42	1 1/2	251.86	1 1/2
3/4	1,224.99	3/4	980.03	3/4	735.06	3/4	490.32	3/4	246.86	3/4
6	1,219.89	6	974.92	6	729.96	6	485.23	6	241.86	6
1 1/4	1,214.79	1 1/4	969.82	1 1/4	724.85	1 1/4	480.14	1 1/4	236.86	1 1/4
1 1/2	1,209.68	1 1/2	964.72	1 1/2	719.75	1 1/2	475.05	1 1/2	231.86	1 1/2
3/4	1,204.58	3/4	959.61	3/4	714.64	3/4	469.95	3/4	226.86	3/4
7	1,199.48	7	954.51	7	709.54	7	464.86	7	221.86	7
1 1/4	1,194.37	1 1/4	949.41	1 1/4	704.44	1 1/4	459.77	1 1/4	216.86	1 1/4
1 1/2	1,189.27	1 1/2	944.30	1 1/2	699.33	1 1/2	454.68	1 1/2	211.86	1 1/2
3/4	1,184.17	3/4	939.20	3/4	694.23	3/4	449.59	3/4	206.86	3/4
8	1,179.06	8	934.10	8	689.13	8	444.49	8	201.86	8
1 1/4	1,173.96	1 1/4	928.99	1 1/4	684.02	1 1/4	439.40	1 1/4	196.86	1 1/4
1 1/2	1,168.86	1 1/2	923.89	1 1/2	678.92	1 1/2	434.31	1 1/2	191.86	1 1/2
3/4	1,163.75	3/4	918.78	3/4	673.82	3/4	429.22	3/4	186.86	3/4
9	1,158.65	9	913.68	9	668.71	9	424.12	9	181.86	9
1 1/4	1,153.55	1 1/4	908.58	1 1/4	663.61	1 1/4	419.03	1 1/4	176.86	1 1/4
1 1/2	1,148.44	1 1/2	903.47	1 1/2	658.51	1 1/2	413.94	1 1/2	171.86	1 1/2
3/4	1,143.34	3/4	898.37	3/4	653.40	3/4	408.84	3/4	166.86	3/4
10	1,138.24	10	893.27	10	648.30	10	403.74	10	161.86	10
1 1/4	1,133.13	1 1/4	888.16	1 1/4	643.20	1 1/4	398.65	1 1/4	156.86	1 1/4
1 1/2	1,128.03	1 1/2	883.06	1 1/2	638.09	1 1/2	393.54	1 1/2	151.86	1 1/2
3/4	1,122.92	3/4	877.96	3/4	632.99	3/4	388.44	3/4	146.86	3/4
11	1,117.82	11	872.85	11	627.89	11	383.34	11	141.86	11
1 1/4	1,112.72	1 1/4	867.75	1 1/4	622.78	1 1/4	378.23	1 1/4	136.86	1 1/4
1 1/2	1,107.61	1 1/2	862.65	1 1/2	617.68	1 1/2	373.13	1 1/2	131.86	1 1/2
3/4	1,102.51	3/4	857.54	3/4	612.57	3/4	368.03	3/4	126.86	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/18/2008 CL - SHW
CALCULATED: 12/15/2008 CL
PRINTED: 12/15/2008 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2008

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77668
http://www.pmacorp.net