



BARGE "CBC 23"

INNAGE TRIM TABLE

FORMERLY "GBL 1810 and KIRBY 10380"

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>										
1 CENTER	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 CENTER	- 00-1/4	00-1/4	- 00-5/8	00-5/8	- 00-7/8	00-7/8	- 01-1/4	01-1/4	- 01-1/2	01-1/2	- 01-7/8	01-7/8
3 CENTER	- 00-1/8	00-1/8	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-5/8	00-5/8	- 00-7/8	00-7/8	- 01-0/8	01-0/8

(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 CENTER IS - 00-1/4"
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 1 CENTER, THE TRIM CORRECTED INNAGE IS 3'-11 3/4"

LENGTH BETWEEN DRAFT MARKS: 158'-00"

November 4, 2016

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "CBC 23"

1 CENTER INNAGE TABLE

FORMERLY "GBL 1810 and KIRBY 10380"

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

GAUGE HEIGHT 16'-11"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0.63	0	204.71	0	453.24	0	701.40	0	949.86	0	1,198.40	0	1,446.94	0	1,695.48	0	1,944.03	0	2,192.57
1/4	1.34	1/4	209.89	1/4	458.42	1/4	706.57	1/4	955.04	1/4	1,203.58	1/4	1,452.12	1/4	1,700.66	1/4	1,949.21	1/4	2,197.75
1/2	2.05	1/2	215.07	1/2	463.59	1/2	711.74	1/2	960.22	1/2	1,208.76	1/2	1,457.30	1/2	1,705.84	1/2	1,954.39	1/2	2,202.93
3/4	2.76	3/4	220.24	3/4	468.77	3/4	716.90	3/4	965.39	3/4	1,213.93	3/4	1,462.47	3/4	1,711.01	3/4	1,959.56	3/4	2,208.10
1	3.47	1	225.42	1	473.94	1	722.07	1	970.57	1	1,219.11	1	1,467.65	1	1,716.19	1	1,964.74	1	2,213.28
1/4	5.44	1/4	230.60	1/4	479.12	1/4	727.24	1/4	975.75	1/4	1,224.29	1/4	1,472.83	1/4	1,721.37	1/4	1,969.92	1/4	2,218.46
1/2	7.41	1/2	235.78	1/2	484.30	1/2	732.41	1/2	980.93	1/2	1,229.47	1/2	1,478.01	1/2	1,726.55	1/2	1,975.10	1/2	2,223.64
3/4	9.38	3/4	240.95	3/4	489.47	3/4	737.57	3/4	986.10	3/4	1,234.64	3/4	1,483.18	3/4	1,731.73	3/4	1,980.27	3/4	2,228.81
2	11.35	2	246.13	2	494.65	2	742.74	2	991.28	2	1,239.82	2	1,488.36	2	1,736.91	2	1,985.45	2	2,233.99
1/4	14.71	1/4	251.31	1/4	499.83	1/4	747.92	1/4	996.46	1/4	1,245.00	1/4	1,493.54	1/4	1,742.09	1/4	1,990.63	1/4	2,239.17
1/2	18.06	1/2	256.49	1/2	505.01	1/2	753.10	1/2	1,001.64	1/2	1,250.18	1/2	1,498.72	1/2	1,747.27	1/2	1,995.81	1/2	2,244.35
3/4	21.42	3/4	261.66	3/4	510.18	3/4	758.28	3/4	1,006.82	3/4	1,255.36	3/4	1,503.89	3/4	1,752.44	3/4	2,000.99	3/4	2,249.52
3	24.77	3	266.84	3	515.36	3	763.46	3	1,012.00	3	1,260.54	3	1,509.07	3	1,757.62	3	2,006.17	3	2,254.70
1/4	29.10	1/4	272.02	1/4	520.54	1/4	768.64	1/4	1,017.18	1/4	1,265.72	1/4	1,514.25	1/4	1,762.80	1/4	2,011.35	1/4	2,259.88
1/2	33.43	1/2	277.20	1/2	525.71	1/2	773.82	1/2	1,022.36	1/2	1,270.90	1/2	1,519.43	1/2	1,767.98	1/2	2,016.53	1/2	2,265.06
3/4	37.76	3/4	282.37	3/4	530.89	3/4	778.99	3/4	1,027.53	3/4	1,276.07	3/4	1,524.60	3/4	1,773.15	3/4	2,021.70	3/4	2,270.23
4	42.09	4	287.55	4	536.06	4	784.17	4	1,032.71	4	1,281.25	4	1,529.78	4	1,778.33	4	2,026.88	4	2,275.41
1/4	46.77	1/4	292.73	1/4	541.23	1/4	789.35	1/4	1,037.89	1/4	1,286.43	1/4	1,534.96	1/4	1,783.51	1/4	2,032.06	1/4	2,280.59
1/2	51.45	1/2	297.91	1/2	546.40	1/2	794.53	1/2	1,043.07	1/2	1,291.61	1/2	1,540.14	1/2	1,788.69	1/2	2,037.24	1/2	2,285.77
3/4	56.13	3/4	303.09	3/4	551.56	3/4	799.70	3/4	1,048.24	3/4	1,296.78	3/4	1,545.32	3/4	1,793.86	3/4	2,042.41	3/4	2,290.94
5	60.81	5	308.27	5	556.73	5	804.88	5	1,053.42	5	1,301.96	5	1,550.50	5	1,799.04	5	2,047.59	5	2,296.12
1/4	65.77	1/4	313.45	1/4	561.90	1/4	810.06	1/4	1,058.60	1/4	1,307.14	1/4	1,555.68	1/4	1,804.22	1/4	2,052.77	1/4	2,301.30
1/2	70.73	1/2	318.63	1/2	567.06	1/2	815.24	1/2	1,063.78	1/2	1,312.32	1/2	1,560.86	1/2	1,809.40	1/2	2,057.95	1/2	2,306.48
3/4	75.69	3/4	323.80	3/4	572.23	3/4	820.41	3/4	1,068.95	3/4	1,317.49	3/4	1,566.03	3/4	1,814.57	3/4	2,063.12	3/4	2,311.65
6	80.65	6	328.98	6	577.39	6	825.59	6	1,074.13	6	1,322.67	6	1,571.21	6	1,819.75	6	2,068.30	6	2,316.83
1/4	85.78	1/4	334.16	1/4	582.56	1/4	830.77	1/4	1,079.31	1/4	1,327.85	1/4	1,576.39	1/4	1,824.93	1/4	2,073.48	1/4	2,322.01
1/2	90.91	1/2	339.34	1/2	587.73	1/2	835.95	1/2	1,084.49	1/2	1,333.03	1/2	1,581.57	1/2	1,830.11	1/2	2,078.66	1/2	2,327.18
3/4	96.03	3/4	344.51	3/4	592.89	3/4	841.12	3/4	1,089.66	3/4	1,338.20	3/4	1,586.74	3/4	1,835.29	3/4	2,083.84	3/4	2,332.36
7	101.16	7	349.69	7	598.06	7	846.30	7	1,094.84	7	1,343.38	7	1,591.92	7	1,840.47	7	2,089.02	7	2,337.54
1/4	106.34	1/4	354.87	1/4	603.23	1/4	851.48	1/4	1,100.02	1/4	1,348.56	1/4	1,597.10	1/4	1,845.65	1/4	2,094.20	1/4	2,342.72
1/2	111.52	1/2	360.05	1/2	608.40	1/2	856.66	1/2	1,105.20	1/2	1,353.74	1/2	1,602.28	1/2	1,850.83	1/2	2,099.38	1/2	2,347.89
3/4	116.69	3/4	365.22	3/4	613.56	3/4	861.83	3/4	1,110.37	3/4	1,358.91	3/4	1,607.45	3/4	1,856.00	3/4	2,104.55	3/4	2,353.07
8	121.87	8	370.40	8	618.73	8	867.01	8	1,115.55	8	1,364.09	8	1,612.63	8	1,861.18	8	2,109.73	8	2,358.25
1/4	127.05	1/4	375.58	1/4	623.90	1/4	872.19	1/4	1,120.73	1/4	1,369.27	1/4	1,617.81	1/4	1,866.36	1/4	2,114.91	1/4	2,363.43
1/2	132.23	1/2	380.76	1/2	629.07	1/2	877.37	1/2	1,125.91	1/2	1,374.45	1/2	1,622.99	1/2	1,871.54	1/2	2,120.09	1/2	2,368.60
3/4	137.40	3/4	385.93	3/4	634.23	3/4	882.55	3/4	1,131.09	3/4	1,379.62	3/4	1,628.16	3/4	1,876.71	3/4	2,125.26	3/4	2,373.78
9	142.58	9	391.11	9	639.40	9	887.73	9	1,136.27	9	1,384.80	9	1,633.34	9	1,881.89	9	2,130.44	9	2,378.96
1/4	147.76	1/4	396.29	1/4	644.57	1/4	892.91	1/4	1,141.45	1/4	1,389.98	1/4	1,638.52	1/4	1,887.07	1/4	2,135.62	1/4	2,384.14
1/2	152.94	1/2	401.47	1/2	649.74	1/2	898.09	1/2	1,146.63	1/2	1,395.16	1/2	1,643.70	1/2	1,892.25	1/2	2,140.80	1/2	2,389.31
3/4	158.11	3/4	406.64	3/4	654.90	3/4	903.26	3/4	1,151.80	3/4	1,400.34	3/4	1,648.88	3/4	1,897.42	3/4	2,145.97	3/4	2,394.49
10	163.29	10	411.82	10	660.07	10	908.44	10	1,156.98	10	1,405.52	10	1,654.06	10	1,902.60	10	2,151.15	10	2,399.67
1/4	168.47	1/4	417.00	1/4	665.24	1/4	913.62	1/4	1,162.16	1/4	1,410.70	1/4	1,659.24	1/4	1,907.78	1/4	2,156.34	1/4	2,404.85
1/2	173.65	1/2	422.18	1/2	670.40	1/2	918.80	1/2	1,167.34	1/2	1,415.88	1/2	1,664.42	1/2	1,912.96	1/2	2,161.52	1/2	2,410.02
3/4	178.82	3/4	427.35	3/4	675.57	3/4	923.97	3/4	1,172.51	3/4	1,421.05	3/4	1,669.59	3/4	1,918.14	3/4	2,166.71	3/4	2,415.20
11	184.00	11	432.53	11	680.73	11	929.15	11	1,177.69	11	1,426.23	11	1,674.77	11	1,923.32	11	2,171.89	11	2,420.38
1/4	189.18	1/4	437.71	1/4	685.90	1/4	934.33	1/4	1,182.87	1/4	1,431.41	1/4	1,679.95	1/4	1,928.50	1/4	2,177.06	1/4	2,425.56
1/2	194.36	1/2	442.89	1/2	691.07	1/2	939.51	1/2	1,188.05	1/2	1,436.59	1/2	1,685.13	1/2	1,933.68	1/2	2,182.23	1/2	2,430.73
3/4	199.53	3/4	448.06	3/4	696.23	3/4	944.68	3/4	1,193.22	3/4	1,441.76	3/4	1,690.30	3/4	1,938.85	3/4	2,187.40	3/4	2,435.91

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN WITH "MMC" CLOSED GAUGING DEVICE.

GAUGE POINT: (MMC) LOCATED 00'-09" OFF CENTERLINE AND 25'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.
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Pearland, Texas 77588
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BARGE "CBC 23"

1 CENTER INNAGE TABLE

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

FORMERLY "GBL 1810 and KIRBY 10380"

GAUGE HEIGHT 16'-11"

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	2,441.09	0	2,682.40	0	2,912.67	0	3,142.96	0	3,373.24	0		0		0		0		0	
1/4	2,446.27	1/4	2,687.19	1/4	2,917.47	1/4	3,147.76	1/4	3,378.04	1/4		1/4		1/4		1/4		1/4	
1/2	2,451.44	1/2	2,691.99	1/2	2,922.26	1/2	3,152.56	1/2	3,382.84	1/2		1/2		1/2		1/2		1/2	
3/4	2,456.62	3/4	2,696.78	3/4	2,927.06	3/4	3,157.35	3/4	3,387.64	3/4		3/4		3/4		3/4		3/4	
1	2,461.80	1	2,701.58	1	2,931.86	1	3,162.15	1	3,392.44	1		1		1		1		1	
1/4	2,466.98	1/4	2,706.38	1/4	2,936.66	1/4	3,166.95	1/4	3,397.24	1/4		1/4		1/4		1/4		1/4	
1/2	2,472.15	1/2	2,711.17	1/2	2,941.45	1/2	3,171.75	1/2	3,402.04	1/2		1/2		1/2		1/2		1/2	
3/4	2,477.33	3/4	2,715.97	3/4	2,946.25	3/4	3,176.54	3/4	3,406.83	3/4		3/4		3/4		3/4		3/4	
2	2,482.51	2	2,720.77	2	2,951.05	2	3,181.34	2	3,411.63	2		2		2		2		2	
1/4	2,487.69	1/4	2,725.57	1/4	2,955.85	1/4	3,186.14	1/4	3,416.39	1/4		1/4		1/4		1/4		1/4	
1/2	2,492.86	1/2	2,730.36	1/2	2,960.64	1/2	3,190.94	1/2	3,421.14	1/2		1/2		1/2		1/2		1/2	
3/4	2,498.04	3/4	2,735.16	3/4	2,965.44	3/4	3,195.73	3/4	3,425.90	3/4		3/4		3/4		3/4		3/4	
3	2,503.22	3	2,739.96	3	2,970.24	3	3,200.53	3	3,430.65	3		3		3		3		3	
1/4	2,508.40	1/4	2,744.76	1/4	2,975.04	1/4	3,205.33	1/4	3,434.92	1/4		1/4		1/4		1/4		1/4	
1/2	2,513.57	1/2	2,749.55	1/2	2,979.83	1/2	3,210.13	1/2	3,439.20	1/2		1/2		1/2		1/2		1/2	
3/4	2,518.75	3/4	2,754.35	3/4	2,984.63	3/4	3,214.92	3/4	3,443.47	3/4		3/4		3/4		3/4		3/4	
4	2,523.93	4	2,759.15	4	2,989.43	4	3,219.72	4	3,447.74	4		4		4		4		4	
1/4	2,529.11	1/4	2,763.95	1/4	2,994.23	1/4	3,224.52	1/4	3,451.41	1/4		1/4		1/4		1/4		1/4	
1/2	2,534.28	1/2	2,768.74	1/2	2,999.02	1/2	3,229.32	1/2	3,455.09	1/2		1/2		1/2		1/2		1/2	
3/4	2,539.46	3/4	2,773.54	3/4	3,003.82	3/4	3,234.11	3/4	3,458.76	3/4		3/4		3/4		3/4		3/4	
5	2,544.64	5	2,778.34	5	3,008.62	5	3,238.91	5	3,462.43	5		5		5		5		5	
1/4	2,549.82	1/4	2,783.14	1/4	3,013.42	1/4	3,243.71	1/4	3,465.51	1/4		1/4		1/4		1/4		1/4	
1/2	2,554.99	1/2	2,787.93	1/2	3,018.22	1/2	3,248.51	1/2	3,468.58	1/2		1/2		1/2		1/2		1/2	
3/4	2,560.17	3/4	2,792.73	3/4	3,023.02	3/4	3,253.30	3/4	3,471.66	3/4		3/4		3/4		3/4		3/4	
6	2,565.35	6	2,797.53	6	3,027.82	6	3,258.10	6	3,474.73	6		6		6		6		6	
1/4	2,570.53	1/4	2,802.33	1/4	3,032.62	1/4	3,262.90	1/4	3,477.20	1/4		1/4		1/4		1/4		1/4	
1/2	2,575.70	1/2	2,807.12	1/2	3,037.41	1/2	3,267.70	1/2	3,479.68	1/2		1/2		1/2		1/2		1/2	
3/4	2,580.88	3/4	2,811.92	3/4	3,042.21	3/4	3,272.49	3/4	3,482.15	3/4		3/4		3/4		3/4		3/4	
7	2,586.06	7	2,816.72	7	3,047.01	7	3,277.29	7	3,484.62	7		7		7		7		7	
1/4	2,590.95	1/4	2,821.52	1/4	3,051.81	1/4	3,282.09	1/4	3,486.50	1/4		1/4		1/4		1/4		1/4	
1/2	2,595.85	1/2	2,826.31	1/2	3,056.61	1/2	3,286.89	1/2	3,488.37	1/2		1/2		1/2		1/2		1/2	
3/4	2,600.74	3/4	2,831.11	3/4	3,061.40	3/4	3,291.68	3/4	3,490.25	3/4		3/4		3/4		3/4		3/4	
8	2,605.64	8	2,835.91	8	3,066.20	8	3,296.48	8	3,492.12	8		8		8		8		8	
1/4	2,610.44	1/4	2,840.71	1/4	3,071.00	1/4	3,301.28	1/4	3,493.39	1/4		1/4		1/4		1/4		1/4	
1/2	2,615.23	1/2	2,845.50	1/2	3,075.80	1/2	3,306.08	1/2	3,494.67	1/2		1/2		1/2		1/2		1/2	
3/4	2,620.03	3/4	2,850.30	3/4	3,080.59	3/4	3,310.87	3/4	3,495.94	3/4		3/4		3/4		3/4		3/4	
9	2,624.83	9	2,855.10	9	3,085.39	9	3,315.67	9	3,497.21	9		9		9		9		9	
1/4	2,629.63	1/4	2,859.90	1/4	3,090.19	1/4	3,320.47	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,634.42	1/2	2,864.69	1/2	3,094.99	1/2	3,325.27	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,639.22	3/4	2,869.49	3/4	3,099.78	3/4	3,330.06	3/4		3/4		3/4		3/4		3/4		3/4	
10	2,644.02	10	2,874.29	10	3,104.58	10	3,334.86	10		10		10		10		10		10	
1/4	2,648.82	1/4	2,879.09	1/4	3,109.38	1/4	3,339.66	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,653.61	1/2	2,883.88	1/2	3,114.18	1/2	3,344.46	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,658.41	3/4	2,888.68	3/4	3,118.97	3/4	3,349.25	3/4		3/4		3/4		3/4		3/4		3/4	
11	2,663.21	11	2,893.48	11	3,123.77	11	3,354.05	11		11		11		11		11		11	
1/4	2,668.01	1/4	2,898.28	1/4	3,128.57	1/4	3,358.85	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,672.80	1/2	2,903.07	1/2	3,133.37	1/2	3,363.65	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,677.60	3/4	2,907.87	3/4	3,138.16	3/4	3,368.44	3/4		3/4		3/4		3/4		3/4		3/4	

STRAPPED: ITS

REPRINTED: 11/05/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2016

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "CBC 23"

2 CENTER INNAGE TABLE

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

FORMERLY "GBL 1810 and KIRBY 10380"

GAUGE HEIGHT 17'-00 1/8"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	1.17	0	207.11	0	455.52	0	703.56	0	951.91	0	1,200.34	0	1,448.76	0	1,697.19	0	1,945.62	0	2,194.05
1/4	2.25	1/4	212.29	1/4	460.69	1/4	708.73	1/4	957.09	1/4	1,205.52	1/4	1,453.94	1/4	1,702.37	1/4	1,950.80	1/4	2,199.23
1/2	3.34	1/2	217.46	1/2	465.87	1/2	713.89	1/2	962.26	1/2	1,210.69	1/2	1,459.11	1/2	1,707.54	1/2	1,955.98	1/2	2,204.40
3/4	4.42	3/4	222.64	3/4	471.04	3/4	719.06	3/4	967.44	3/4	1,215.87	3/4	1,464.29	3/4	1,712.72	3/4	1,961.15	3/4	2,209.58
1	5.90	1	227.81	1	476.21	1	724.22	1	972.61	1	1,221.04	1	1,469.46	1	1,717.89	1	1,966.33	1	2,214.75
1/4	8.16	1/4	232.99	1/4	481.39	1/4	729.39	1/4	977.79	1/4	1,226.22	1/4	1,474.64	1/4	1,723.07	1/4	1,971.51	1/4	2,219.93
1/2	10.82	1/2	238.16	1/2	486.56	1/2	734.56	1/2	982.97	1/2	1,231.39	1/2	1,479.81	1/2	1,728.24	1/2	1,976.68	1/2	2,225.10
3/4	13.47	3/4	243.34	3/4	491.74	3/4	739.72	3/4	988.14	3/4	1,236.57	3/4	1,484.99	3/4	1,733.42	3/4	1,981.86	3/4	2,230.28
2	16.49	2	248.51	2	496.91	2	744.89	2	993.32	2	1,241.74	2	1,490.16	2	1,738.59	2	1,987.03	2	2,235.45
1/4	20.22	1/4	253.69	1/4	502.09	1/4	750.07	1/4	998.50	1/4	1,246.92	1/4	1,495.34	1/4	1,743.77	1/4	1,992.21	1/4	2,240.63
1/2	24.31	1/2	258.86	1/2	507.26	1/2	755.24	1/2	1,003.67	1/2	1,252.09	1/2	1,500.52	1/2	1,748.95	1/2	1,997.38	1/2	2,245.80
3/4	28.40	3/4	264.04	3/4	512.44	3/4	760.42	3/4	1,008.85	3/4	1,257.27	3/4	1,505.69	3/4	1,754.12	3/4	2,002.56	3/4	2,250.98
3	32.58	3	269.21	3	517.61	3	765.59	3	1,014.02	3	1,262.44	3	1,510.87	3	1,759.30	3	2,007.73	3	2,256.15
1/4	36.95	1/4	274.39	1/4	522.78	1/4	770.77	1/4	1,019.20	1/4	1,267.62	1/4	1,516.05	1/4	1,764.48	1/4	2,012.91	1/4	2,261.33
1/2	41.41	1/2	279.56	1/2	527.95	1/2	775.94	1/2	1,024.37	1/2	1,272.80	1/2	1,521.22	1/2	1,769.65	1/2	2,018.08	1/2	2,266.50
3/4	45.87	3/4	284.74	3/4	533.12	3/4	781.12	3/4	1,029.55	3/4	1,277.97	3/4	1,526.40	3/4	1,774.83	3/4	2,023.26	3/4	2,271.68
4	50.27	4	289.91	4	538.29	4	786.29	4	1,034.72	4	1,283.15	4	1,531.57	4	1,780.00	4	2,028.43	4	2,276.85
1/4	54.55	1/4	295.09	1/4	543.46	1/4	791.47	1/4	1,039.90	1/4	1,288.33	1/4	1,536.75	1/4	1,785.18	1/4	2,033.61	1/4	2,282.03
1/2	58.76	1/2	300.26	1/2	548.62	1/2	796.65	1/2	1,045.07	1/2	1,293.50	1/2	1,541.92	1/2	1,790.35	1/2	2,038.79	1/2	2,287.20
3/4	62.98	3/4	305.44	3/4	553.79	3/4	801.82	3/4	1,050.25	3/4	1,298.68	3/4	1,547.10	3/4	1,795.53	3/4	2,043.96	3/4	2,292.38
5	67.22	5	310.61	5	558.95	5	807.00	5	1,055.42	5	1,303.85	5	1,552.27	5	1,800.70	5	2,049.14	5	2,297.55
1/4	71.53	1/4	315.79	1/4	564.12	1/4	812.18	1/4	1,060.60	1/4	1,309.03	1/4	1,557.45	1/4	1,805.88	1/4	2,054.32	1/4	2,302.73
1/2	75.87	1/2	320.96	1/2	569.28	1/2	817.35	1/2	1,065.77	1/2	1,314.20	1/2	1,562.62	1/2	1,811.06	1/2	2,059.49	1/2	2,307.90
3/4	80.20	3/4	326.14	3/4	574.45	3/4	822.53	3/4	1,070.95	3/4	1,319.38	3/4	1,567.80	3/4	1,816.23	3/4	2,064.67	3/4	2,313.08
6	84.65	6	331.31	6	579.61	6	827.70	6	1,076.12	6	1,324.55	6	1,572.97	6	1,821.41	6	2,069.84	6	2,318.25
1/4	89.31	1/4	336.49	1/4	584.78	1/4	832.88	1/4	1,081.30	1/4	1,329.73	1/4	1,578.15	1/4	1,826.59	1/4	2,075.02	1/4	2,323.43
1/2	94.07	1/2	341.66	1/2	589.94	1/2	838.05	1/2	1,086.48	1/2	1,334.90	1/2	1,583.32	1/2	1,831.76	1/2	2,080.19	1/2	2,328.61
3/4	98.84	3/4	346.84	3/4	595.11	3/4	843.23	3/4	1,091.65	3/4	1,340.08	3/4	1,588.50	3/4	1,836.94	3/4	2,085.37	3/4	2,333.78
7	103.70	7	352.01	7	600.27	7	848.40	7	1,096.83	7	1,345.25	7	1,593.67	7	1,842.11	7	2,090.54	7	2,338.96
1/4	108.78	1/4	357.19	1/4	605.44	1/4	853.58	1/4	1,102.01	1/4	1,350.43	1/4	1,598.85	1/4	1,847.29	1/4	2,095.72	1/4	2,344.14
1/2	113.95	1/2	362.36	1/2	610.60	1/2	858.75	1/2	1,107.18	1/2	1,355.60	1/2	1,604.03	1/2	1,852.46	1/2	2,100.90	1/2	2,349.31
3/4	119.13	3/4	367.54	3/4	615.77	3/4	863.93	3/4	1,112.36	3/4	1,360.78	3/4	1,609.20	3/4	1,857.64	3/4	2,106.07	3/4	2,354.49
8	124.30	8	372.71	8	620.93	8	869.10	8	1,117.53	8	1,365.95	8	1,614.38	8	1,862.81	8	2,111.25	8	2,359.66
1/4	129.48	1/4	377.89	1/4	626.10	1/4	874.28	1/4	1,122.71	1/4	1,371.13	1/4	1,619.56	1/4	1,867.99	1/4	2,116.43	1/4	2,364.84
1/2	134.65	1/2	383.06	1/2	631.26	1/2	879.46	1/2	1,127.88	1/2	1,376.30	1/2	1,624.73	1/2	1,873.16	1/2	2,121.60	1/2	2,370.01
3/4	139.83	3/4	388.24	3/4	636.43	3/4	884.63	3/4	1,133.06	3/4	1,381.48	3/4	1,629.91	3/4	1,878.34	3/4	2,126.78	3/4	2,375.19
9	145.00	9	393.41	9	641.59	9	889.81	9	1,138.23	9	1,386.65	9	1,635.08	9	1,883.51	9	2,131.95	9	2,380.36
1/4	150.18	1/4	398.59	1/4	646.75	1/4	894.99	1/4	1,143.41	1/4	1,391.83	1/4	1,640.26	1/4	1,888.69	1/4	2,137.13	1/4	2,385.54
1/2	155.35	1/2	403.76	1/2	651.92	1/2	900.16	1/2	1,148.58	1/2	1,397.01	1/2	1,645.43	1/2	1,893.87	1/2	2,142.30	1/2	2,390.71
3/4	160.53	3/4	408.94	3/4	657.08	3/4	905.34	3/4	1,153.76	3/4	1,402.18	3/4	1,650.61	3/4	1,899.04	3/4	2,147.48	3/4	2,395.89
10	165.70	10	414.11	10	662.24	10	910.51	10	1,158.93	10	1,407.36	10	1,655.78	10	1,904.22	10	2,152.65	10	2,401.06
1/4	170.88	1/4	419.29	1/4	667.41	1/4	915.69	1/4	1,164.11	1/4	1,412.54	1/4	1,660.96	1/4	1,909.40	1/4	2,157.83	1/4	2,406.24
1/2	176.06	1/2	424.47	1/2	672.57	1/2	920.86	1/2	1,169.29	1/2	1,417.71	1/2	1,666.13	1/2	1,914.57	1/2	2,163.00	1/2	2,411.41
3/4	181.23	3/4	429.64	3/4	677.74	3/4	926.04	3/4	1,174.46	3/4	1,422.89	3/4	1,671.31	3/4	1,919.75	3/4	2,168.18	3/4	2,416.59
11	186.41	11	434.82	11	682.90	11	931.21	11	1,179.64	11	1,428.06	11	1,676.48	11	1,924.92	11	2,173.35	11	2,421.76
1/4	191.59	1/4	440.00	1/4	688.07	1/4	936.39	1/4	1,184.82	1/4	1,433.24	1/4	1,681.66	1/4	1,930.10	1/4	2,178.53	1/4	2,426.94
1/2	196.76	1/2	445.17	1/2	693.23	1/2	941.56	1/2	1,189.99	1/2	1,438.41	1/2	1,686.84	1/2	1,935.27	1/2	2,183.70	1/2	2,432.11
3/4	201.94	3/4	450.35	3/4	698.40	3/4	946.74	3/4	1,195.17	3/4	1,443.59	3/4	1,692.01	3/4	1,940.45	3/4	2,188.88	3/4	2,437.29

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN WITH "MMC" CLOSED GAUGING DEVICE.

GAUGE POINT: (MMC) LOCATED 00'-09" OFF CENTERLINE AND 31'-00" FORWARD OF AFT BULKHEAD.

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



BARGE "CBC 23"

2 CENTER INNAGE TABLE

FORMERLY "GBL 1810 and KIRBY 10380"

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

GAUGE HEIGHT 17'-00 1/8"

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	2,442.46	0	2,690.86	0	2,939.27	0	3,187.74	0	3,436.22	0		0		0		0		0	
1/4	2,447.64	1/4	2,696.04	1/4	2,944.45	1/4	3,192.92	1/4	3,441.40	1/4		1/4		1/4		1/4		1/4	
1/2	2,452.81	1/2	2,701.21	1/2	2,949.63	1/2	3,198.10	1/2	3,446.57	1/2		1/2		1/2		1/2		1/2	
3/4	2,457.99	3/4	2,706.39	3/4	2,954.80	3/4	3,203.27	3/4	3,451.75	3/4		3/4		3/4		3/4		3/4	
1	2,463.16	1	2,711.56	1	2,959.98	1	3,208.45	1	3,456.92	1		1		1		1		1	
1/4	2,468.34	1/4	2,716.74	1/4	2,965.16	1/4	3,213.63	1/4	3,462.10	1/4		1/4		1/4		1/4		1/4	
1/2	2,473.51	1/2	2,721.91	1/2	2,970.33	1/2	3,218.81	1/2	3,467.28	1/2		1/2		1/2		1/2		1/2	
3/4	2,478.69	3/4	2,727.09	3/4	2,975.51	3/4	3,223.98	3/4	3,472.45	3/4		3/4		3/4		3/4		3/4	
2	2,483.86	2	2,732.26	2	2,980.68	2	3,229.16	2	3,477.62	2		2		2		2		2	
1/4	2,489.04	1/4	2,737.44	1/4	2,985.86	1/4	3,234.34	1/4	3,482.76	1/4		1/4		1/4		1/4		1/4	
1/2	2,494.21	1/2	2,742.61	1/2	2,991.04	1/2	3,239.51	1/2	3,487.89	1/2		1/2		1/2		1/2		1/2	
3/4	2,499.39	3/4	2,747.79	3/4	2,996.21	3/4	3,244.69	3/4	3,493.02	3/4		3/4		3/4		3/4		3/4	
3	2,504.56	3	2,752.96	3	3,001.39	3	3,249.86	3	3,498.02	3		3		3		3		3	
1/4	2,509.74	1/4	2,758.14	1/4	3,006.57	1/4	3,255.04	1/4	3,502.76	1/4		1/4		1/4		1/4		1/4	
1/2	2,514.91	1/2	2,763.31	1/2	3,011.74	1/2	3,260.22	1/2	3,507.38	1/2		1/2		1/2		1/2		1/2	
3/4	2,520.09	3/4	2,768.49	3/4	3,016.92	3/4	3,265.39	3/4	3,511.99	3/4		3/4		3/4		3/4		3/4	
4	2,525.26	4	2,773.66	4	3,022.09	4	3,270.57	4	3,516.44	4		4		4		4		4	
1/4	2,530.44	1/4	2,778.84	1/4	3,027.27	1/4	3,275.75	1/4	3,520.56	1/4		1/4		1/4		1/4		1/4	
1/2	2,535.61	1/2	2,784.02	1/2	3,032.45	1/2	3,280.92	1/2	3,524.53	1/2		1/2		1/2		1/2		1/2	
3/4	2,540.79	3/4	2,789.19	3/4	3,037.62	3/4	3,286.10	3/4	3,528.49	3/4		3/4		3/4		3/4		3/4	
5	2,545.96	5	2,794.37	5	3,042.80	5	3,291.27	5	3,532.29	5		5		5		5		5	
1/4	2,551.14	1/4	2,799.55	1/4	3,047.98	1/4	3,296.45	1/4	3,535.77	1/4		1/4		1/4		1/4		1/4	
1/2	2,556.31	1/2	2,804.72	1/2	3,053.16	1/2	3,301.63	1/2	3,539.09	1/2		1/2		1/2		1/2		1/2	
3/4	2,561.49	3/4	2,809.90	3/4	3,058.33	3/4	3,306.80	3/4	3,542.40	3/4		3/4		3/4		3/4		3/4	
6	2,566.66	6	2,815.07	6	3,063.51	6	3,311.98	6	3,545.56	6		6		6		6		6	
1/4	2,571.84	1/4	2,820.25	1/4	3,068.69	1/4	3,317.16	1/4	3,548.39	1/4		1/4		1/4		1/4		1/4	
1/2	2,577.01	1/2	2,825.42	1/2	3,073.86	1/2	3,322.34	1/2	3,551.06	1/2		1/2		1/2		1/2		1/2	
3/4	2,582.19	3/4	2,830.60	3/4	3,079.04	3/4	3,327.51	3/4	3,553.72	3/4		3/4		3/4		3/4		3/4	
7	2,587.36	7	2,835.77	7	3,084.21	7	3,332.69	7	3,556.23	7		7		7		7		7	
1/4	2,592.54	1/4	2,840.95	1/4	3,089.39	1/4	3,337.87	1/4	3,558.41	1/4		1/4		1/4		1/4		1/4	
1/2	2,597.71	1/2	2,846.12	1/2	3,094.57	1/2	3,343.04	1/2	3,560.44	1/2		1/2		1/2		1/2		1/2	
3/4	2,602.89	3/4	2,851.30	3/4	3,099.74	3/4	3,348.22	3/4	3,562.46	3/4		3/4		3/4		3/4		3/4	
8	2,608.06	8	2,856.47	8	3,104.92	8	3,353.39	8	3,564.33	8		8		8		8		8	
1/4	2,613.24	1/4	2,861.65	1/4	3,110.10	1/4	3,358.57	1/4	3,565.90	1/4		1/4		1/4		1/4		1/4	
1/2	2,618.41	1/2	2,866.82	1/2	3,115.27	1/2	3,363.75	1/2	3,567.31	1/2		1/2		1/2		1/2		1/2	
3/4	2,623.59	3/4	2,872.00	3/4	3,120.45	3/4	3,368.92	3/4	3,568.73	3/4		3/4		3/4		3/4		3/4	
9	2,628.76	9	2,877.17	9	3,125.62	9	3,374.10	9	3,569.43	9		9		9		9		9	
1/4	2,633.94	1/4	2,882.35	1/4	3,130.80	1/4	3,379.28	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,639.11	1/2	2,887.52	1/2	3,135.98	1/2	3,384.45	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,644.29	3/4	2,892.70	3/4	3,141.15	3/4	3,389.63	3/4		3/4		3/4		3/4		3/4		3/4	
10	2,649.46	10	2,897.87	10	3,146.33	10	3,394.80	10		10		10		10		10		10	
1/4	2,654.64	1/4	2,903.05	1/4	3,151.51	1/4	3,399.98	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,659.81	1/2	2,908.22	1/2	3,156.69	1/2	3,405.16	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,664.99	3/4	2,913.40	3/4	3,161.86	3/4	3,410.33	3/4		3/4		3/4		3/4		3/4		3/4	
11	2,670.16	11	2,918.57	11	3,167.04	11	3,415.51	11		11		11		11		11		11	
1/4	2,675.34	1/4	2,923.75	1/4	3,172.22	1/4	3,420.69	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,680.51	1/2	2,928.92	1/2	3,177.39	1/2	3,425.87	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,685.69	3/4	2,934.10	3/4	3,182.57	3/4	3,431.04	3/4		3/4		3/4		3/4		3/4		3/4	

STRAPPED: ITS

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CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2016

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
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P.O. Box 2092
Pearland, Texas 77588
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BARGE "CBC 23"

3 CENTER INNAGE TABLE

FORMERLY "GBL 1810 and KIRBY 10380"

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

GAUGE HEIGHT 16'-11 3/8"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	1.10	0	206.46	0	454.82	0	702.81	0	951.11	0	1,199.49	0	1,447.86	0	1,696.24	0	1,944.62	0	2,193.00
1/4	2.05	1/4	211.64	1/4	459.99	1/4	707.98	1/4	956.29	1/4	1,204.67	1/4	1,453.04	1/4	1,701.41	1/4	1,949.79	1/4	2,198.17
1/2	3.00	1/2	216.81	1/2	465.17	1/2	713.14	1/2	961.46	1/2	1,209.84	1/2	1,458.21	1/2	1,706.59	1/2	1,954.97	1/2	2,203.35
3/4	3.94	3/4	221.99	3/4	470.34	3/4	718.31	3/4	966.64	3/4	1,215.02	3/4	1,463.39	3/4	1,711.76	3/4	1,960.14	3/4	2,208.52
1	5.32	1	227.16	1	475.51	1	723.47	1	971.81	1	1,220.19	1	1,468.56	1	1,716.94	1	1,965.32	1	2,213.70
1/4	7.55	1/4	232.33	1/4	480.68	1/4	728.64	1/4	976.99	1/4	1,225.36	1/4	1,473.74	1/4	1,722.11	1/4	1,970.49	1/4	2,218.87
1/2	10.21	1/2	237.51	1/2	485.86	1/2	733.80	1/2	982.16	1/2	1,230.54	1/2	1,478.91	1/2	1,727.29	1/2	1,975.67	1/2	2,224.05
3/4	12.86	3/4	242.68	3/4	491.03	3/4	738.97	3/4	987.34	3/4	1,235.71	3/4	1,484.09	3/4	1,732.46	3/4	1,980.84	3/4	2,229.22
2	15.88	2	247.85	2	496.20	2	744.13	2	992.51	2	1,240.88	2	1,489.26	2	1,737.64	2	1,986.02	2	2,234.39
1/4	19.61	1/4	253.03	1/4	501.38	1/4	749.31	1/4	997.69	1/4	1,246.06	1/4	1,494.43	1/4	1,742.81	1/4	1,991.19	1/4	2,239.57
1/2	23.70	1/2	258.20	1/2	506.55	1/2	754.48	1/2	1,002.86	1/2	1,251.23	1/2	1,499.61	1/2	1,747.99	1/2	1,996.37	1/2	2,244.74
3/4	27.78	3/4	263.38	3/4	511.73	3/4	759.66	3/4	1,008.04	3/4	1,256.41	3/4	1,504.78	3/4	1,753.16	3/4	2,001.54	3/4	2,249.92
3	31.96	3	268.55	3	516.90	3	764.83	3	1,013.21	3	1,261.58	3	1,509.95	3	1,758.33	3	2,006.72	3	2,255.09
1/4	36.33	1/4	273.73	1/4	522.07	1/4	770.01	1/4	1,018.39	1/4	1,266.76	1/4	1,515.13	1/4	1,763.51	1/4	2,011.89	1/4	2,260.27
1/2	40.80	1/2	278.90	1/2	527.24	1/2	775.18	1/2	1,023.56	1/2	1,271.93	1/2	1,520.30	1/2	1,768.68	1/2	2,017.07	1/2	2,265.44
3/4	45.26	3/4	284.08	3/4	532.41	3/4	780.36	3/4	1,028.74	3/4	1,277.11	3/4	1,525.48	3/4	1,773.86	3/4	2,022.24	3/4	2,270.62
4	49.66	4	289.25	4	537.58	4	785.53	4	1,033.91	4	1,282.28	4	1,530.65	4	1,779.03	4	2,027.42	4	2,275.79
1/4	53.93	1/4	294.42	1/4	542.74	1/4	790.71	1/4	1,039.08	1/4	1,287.46	1/4	1,535.83	1/4	1,784.21	1/4	2,032.59	1/4	2,280.96
1/2	58.15	1/2	299.60	1/2	547.91	1/2	795.88	1/2	1,044.26	1/2	1,292.63	1/2	1,541.00	1/2	1,789.38	1/2	2,037.77	1/2	2,286.14
3/4	62.36	3/4	304.77	3/4	553.07	3/4	801.06	3/4	1,049.43	3/4	1,297.81	3/4	1,546.18	3/4	1,794.56	3/4	2,042.94	3/4	2,291.31
5	66.60	5	309.94	5	558.23	5	806.23	5	1,054.60	5	1,302.98	5	1,551.35	5	1,799.73	5	2,048.12	5	2,296.48
1/4	70.91	1/4	315.12	1/4	563.40	1/4	811.41	1/4	1,059.78	1/4	1,308.16	1/4	1,556.53	1/4	1,804.91	1/4	2,053.29	1/4	2,301.66
1/2	75.24	1/2	320.29	1/2	568.56	1/2	816.58	1/2	1,064.95	1/2	1,313.33	1/2	1,561.70	1/2	1,810.08	1/2	2,058.47	1/2	2,306.83
3/4	79.58	3/4	325.47	3/4	573.73	3/4	821.76	3/4	1,070.13	3/4	1,318.51	3/4	1,566.88	3/4	1,815.26	3/4	2,063.64	3/4	2,312.01
6	84.02	6	330.64	6	578.89	6	826.93	6	1,075.30	6	1,323.68	6	1,572.05	6	1,820.43	6	2,068.82	6	2,317.18
1/4	88.68	1/4	335.82	1/4	584.05	1/4	832.10	1/4	1,080.48	1/4	1,328.85	1/4	1,577.23	1/4	1,825.61	1/4	2,073.99	1/4	2,322.36
1/2	93.45	1/2	340.99	1/2	589.22	1/2	837.28	1/2	1,085.65	1/2	1,334.03	1/2	1,582.40	1/2	1,830.78	1/2	2,079.17	1/2	2,327.53
3/4	98.21	3/4	346.17	3/4	594.38	3/4	842.45	3/4	1,090.83	3/4	1,339.20	3/4	1,587.58	3/4	1,835.96	3/4	2,084.34	3/4	2,332.71
7	103.08	7	351.34	7	599.54	7	847.62	7	1,096.00	7	1,344.37	7	1,592.75	7	1,841.13	7	2,089.51	7	2,337.88
1/4	108.15	1/4	356.51	1/4	604.71	1/4	852.79	1/4	1,101.18	1/4	1,349.55	1/4	1,597.92	1/4	1,846.31	1/4	2,094.69	1/4	2,343.05
1/2	113.33	1/2	361.69	1/2	609.87	1/2	857.97	1/2	1,106.35	1/2	1,354.72	1/2	1,603.10	1/2	1,851.48	1/2	2,099.86	1/2	2,348.23
3/4	118.50	3/4	366.86	3/4	615.04	3/4	863.14	3/4	1,111.53	3/4	1,359.90	3/4	1,608.27	3/4	1,856.66	3/4	2,105.04	3/4	2,353.40
8	123.67	8	372.03	8	620.20	8	868.32	8	1,116.70	8	1,365.07	8	1,613.44	8	1,861.83	8	2,110.21	8	2,358.57
1/4	128.85	1/4	377.21	1/4	625.36	1/4	873.49	1/4	1,121.88	1/4	1,370.25	1/4	1,618.61	1/4	1,867.01	1/4	2,115.39	1/4	2,363.75
1/2	134.02	1/2	382.38	1/2	630.53	1/2	878.67	1/2	1,127.05	1/2	1,375.42	1/2	1,623.79	1/2	1,872.18	1/2	2,120.56	1/2	2,368.92
3/4	139.20	3/4	387.56	3/4	635.69	3/4	883.84	3/4	1,132.23	3/4	1,380.60	3/4	1,628.96	3/4	1,877.36	3/4	2,125.74	3/4	2,374.10
9	144.37	9	392.73	9	640.85	9	889.02	9	1,137.40	9	1,385.77	9	1,634.14	9	1,882.53	9	2,130.91	9	2,379.27
1/4	149.55	1/4	397.91	1/4	646.02	1/4	894.19	1/4	1,142.57	1/4	1,390.95	1/4	1,639.31	1/4	1,887.71	1/4	2,136.09	1/4	2,384.44
1/2	154.72	1/2	403.08	1/2	651.18	1/2	899.37	1/2	1,147.75	1/2	1,396.12	1/2	1,644.49	1/2	1,892.88	1/2	2,141.26	1/2	2,389.62
3/4	159.90	3/4	408.26	3/4	656.35	3/4	904.54	3/4	1,152.92	3/4	1,401.30	3/4	1,649.66	3/4	1,898.06	3/4	2,146.44	3/4	2,394.79
10	165.07	10	413.43	10	661.51	10	909.72	10	1,158.09	10	1,406.47	10	1,654.84	10	1,903.23	10	2,151.61	10	2,399.96
1/4	170.24	1/4	418.60	1/4	666.67	1/4	914.89	1/4	1,163.27	1/4	1,411.64	1/4	1,660.01	1/4	1,908.40	1/4	2,156.79	1/4	2,405.14
1/2	175.42	1/2	423.78	1/2	671.84	1/2	920.07	1/2	1,168.44	1/2	1,416.82	1/2	1,665.19	1/2	1,913.58	1/2	2,161.96	1/2	2,410.31
3/4	180.59	3/4	428.95	3/4	677.00	3/4	925.24	3/4	1,173.62	3/4	1,421.99	3/4	1,670.36	3/4	1,918.75	3/4	2,167.14	3/4	2,415.49
11	185.76	11	434.12	11	682.16	11	930.42	11	1,178.79	11	1,427.16	11	1,675.54	11	1,923.92	11	2,172.31	11	2,420.66
1/4	190.94	1/4	439.30	1/4	687.32	1/4	935.59	1/4	1,183.97	1/4	1,432.34	1/4	1,680.71	1/4	1,929.09	1/4	2,177.48	1/4	2,425.84
1/2	196.11	1/2	444.47	1/2	692.49	1/2	940.77	1/2	1,189.14	1/2	1,437.51	1/2	1,685.89	1/2	1,934.27	1/2	2,182.66	1/2	2,431.01
3/4	201.29	3/4	449.65	3/4	697.65	3/4	945.94	3/4	1,194.32	3/4	1,442.69	3/4	1,691.06	3/4	1,939.44	3/4	2,187.83	3/4	2,436.19

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN WITH "MMC" CLOSED GAUGING DEVICE.
GAUGE POINT: (MMC) LOCATED 00'-09" OFF CENTERLINE AND 29'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
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BARGE "CBC 23"

3 CENTER INNAGE TABLE

FORMERLY "GBL 1810 and KIRBY 10380"

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

GAUGE HEIGHT 16'-11 3/8"

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	2,441.36	0	2,689.71	0	2,938.07	0	3,186.49	0	3,434.91	0		0		0		0		0	
1/4	2,446.53	1/4	2,694.89	1/4	2,943.25	1/4	3,191.67	1/4	3,440.09	1/4		1/4		1/4		1/4		1/4	
1/2	2,451.71	1/2	2,700.06	1/2	2,948.42	1/2	3,196.84	1/2	3,445.27	1/2		1/2		1/2		1/2		1/2	
3/4	2,456.88	3/4	2,705.24	3/4	2,953.60	3/4	3,202.02	3/4	3,450.44	3/4		3/4		3/4		3/4		3/4	
1	2,462.05	1	2,710.41	1	2,958.77	1	3,207.19	1	3,455.62	1		1		1		1		1	
1/4	2,467.23	1/4	2,715.58	1/4	2,963.95	1/4	3,212.37	1/4	3,460.80	1/4		1/4		1/4		1/4		1/4	
1/2	2,472.40	1/2	2,720.76	1/2	2,969.12	1/2	3,217.54	1/2	3,465.97	1/2		1/2		1/2		1/2		1/2	
3/4	2,477.58	3/4	2,725.93	3/4	2,974.30	3/4	3,222.72	3/4	3,471.15	3/4		3/4		3/4		3/4		3/4	
2	2,482.75	2	2,731.10	2	2,979.47	2	3,227.89	2	3,476.31	2		2		2		2		2	
1/4	2,487.93	1/4	2,736.28	1/4	2,984.65	1/4	3,233.07	1/4	3,481.45	1/4		1/4		1/4		1/4		1/4	
1/2	2,493.10	1/2	2,741.45	1/2	2,989.82	1/2	3,238.25	1/2	3,486.58	1/2		1/2		1/2		1/2		1/2	
3/4	2,498.28	3/4	2,746.63	3/4	2,995.00	3/4	3,243.42	3/4	3,491.71	3/4		3/4		3/4		3/4		3/4	
3	2,503.45	3	2,751.80	3	3,000.17	3	3,248.60	3	3,496.71	3		3		3		3		3	
1/4	2,508.62	1/4	2,756.98	1/4	3,005.35	1/4	3,253.78	1/4	3,501.45	1/4		1/4		1/4		1/4		1/4	
1/2	2,513.80	1/2	2,762.15	1/2	3,010.53	1/2	3,258.95	1/2	3,506.06	1/2		1/2		1/2		1/2		1/2	
3/4	2,518.97	3/4	2,767.33	3/4	3,015.70	3/4	3,264.13	3/4	3,510.67	3/4		3/4		3/4		3/4		3/4	
4	2,524.14	4	2,772.50	4	3,020.88	4	3,269.30	4	3,515.12	4		4		4		4		4	
1/4	2,529.32	1/4	2,777.67	1/4	3,026.06	1/4	3,274.48	1/4	3,519.24	1/4		1/4		1/4		1/4		1/4	
1/2	2,534.49	1/2	2,782.85	1/2	3,031.23	1/2	3,279.65	1/2	3,523.21	1/2		1/2		1/2		1/2		1/2	
3/4	2,539.67	3/4	2,788.02	3/4	3,036.41	3/4	3,284.83	3/4	3,527.17	3/4		3/4		3/4		3/4		3/4	
5	2,544.84	5	2,793.19	5	3,041.58	5	3,290.00	5	3,530.97	5		5		5		5		5	
1/4	2,550.01	1/4	2,798.37	1/4	3,046.76	1/4	3,295.18	1/4	3,534.45	1/4		1/4		1/4		1/4		1/4	
1/2	2,555.19	1/2	2,803.54	1/2	3,051.93	1/2	3,300.35	1/2	3,537.76	1/2		1/2		1/2		1/2		1/2	
3/4	2,560.36	3/4	2,808.72	3/4	3,057.11	3/4	3,305.53	3/4	3,541.08	3/4		3/4		3/4		3/4		3/4	
6	2,565.53	6	2,813.89	6	3,062.28	6	3,310.70	6	3,544.23	6		6		6		6		6	
1/4	2,570.71	1/4	2,819.06	1/4	3,067.46	1/4	3,315.88	1/4	3,547.06	1/4		1/4		1/4		1/4		1/4	
1/2	2,575.88	1/2	2,824.24	1/2	3,072.63	1/2	3,321.05	1/2	3,549.73	1/2		1/2		1/2		1/2		1/2	
3/4	2,581.06	3/4	2,829.41	3/4	3,077.81	3/4	3,326.23	3/4	3,552.39	3/4		3/4		3/4		3/4		3/4	
7	2,586.23	7	2,834.58	7	3,082.98	7	3,331.40	7	3,554.90	7		7		7		7		7	
1/4	2,591.41	1/4	2,839.76	1/4	3,088.16	1/4	3,336.58	1/4	3,557.08	1/4		1/4		1/4		1/4		1/4	
1/2	2,596.58	1/2	2,844.93	1/2	3,093.33	1/2	3,341.76	1/2	3,559.11	1/2		1/2		1/2		1/2		1/2	
3/4	2,601.76	3/4	2,850.11	3/4	3,098.51	3/4	3,346.93	3/4	3,561.13	3/4		3/4		3/4		3/4		3/4	
8	2,606.93	8	2,855.28	8	3,103.68	8	3,352.11	8	3,563.00	8		8		8		8		8	
1/4	2,612.10	1/4	2,860.46	1/4	3,108.86	1/4	3,357.29	1/4	3,564.56	1/4		1/4		1/4		1/4		1/4	
1/2	2,617.28	1/2	2,865.63	1/2	3,114.03	1/2	3,362.46	1/2	3,565.98	1/2		1/2		1/2		1/2		1/2	
3/4	2,622.45	3/4	2,870.81	3/4	3,119.21	3/4	3,367.64	3/4	3,567.39	3/4		3/4		3/4		3/4		3/4	
9	2,627.62	9	2,875.98	9	3,124.38	9	3,372.81	9	3,568.10	9		9		9		9		9	
1/4	2,632.80	1/4	2,881.15	1/4	3,129.56	1/4	3,377.99	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,637.97	1/2	2,886.33	1/2	3,134.74	1/2	3,383.16	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,643.15	3/4	2,891.50	3/4	3,139.91	3/4	3,388.34	3/4		3/4		3/4		3/4		3/4		3/4	
10	2,648.32	10	2,896.67	10	3,145.09	10	3,393.51	10		10		10		10		10		10	
1/4	2,653.49	1/4	2,901.85	1/4	3,150.27	1/4	3,398.69	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,658.67	1/2	2,907.02	1/2	3,155.44	1/2	3,403.86	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,663.84	3/4	2,912.20	3/4	3,160.62	3/4	3,409.04	3/4		3/4		3/4		3/4		3/4		3/4	
11	2,669.01	11	2,917.37	11	3,165.79	11	3,414.21	11		11		11		11		11		11	
1/4	2,674.19	1/4	2,922.55	1/4	3,170.97	1/4	3,419.39	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,679.36	1/2	2,927.72	1/2	3,176.14	1/2	3,424.56	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,684.54	3/4	2,932.90	3/4	3,181.32	3/4	3,429.74	3/4		3/4		3/4		3/4		3/4		3/4	

STRAPPED: ITS

REPRINTED: 11/05/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2016

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "CBC 23"

ULLAGE TRIM TABLE

FORMERLY "GBL 1810 & KIRBY 10380"

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>										
1 CENTER	- 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 CENTER	00-1/4	- 00-1/4	00-5/8	- 00-5/8	00-7/8	- 00-7/8	01-1/4	- 01-1/4	01-1/2	- 01-1/2	01-7/8	- 01-7/8
3 CENTER	00-1/8	- 00-1/8	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-5/8	- 00-5/8	00-7/8	- 00-7/8	01-0/8	- 01-0/8

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

LENGTH BETWEEN DRAFT MARKS: 158'-00"

July 12, 2016

**PRECISION MEASUREMENT
& ANALYSIS, INC.**

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "CBC 23"

1 CENTER ULLAGE TABLE

FORMERLY "GBL 1810 and KIRBY 10380"

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

GUAGE HEIGHT 16'-11"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	3,354.05	0	3,123.77	0	2,893.48	0	2,663.21	0	2,420.38	0	2,171.89	0	1,923.32
1/4		1/4		1/4		1/4	3,349.25	1/4	3,118.97	1/4	2,888.68	1/4	2,658.41	1/4	2,415.20	1/4	2,166.71	1/4	1,918.14
1/2		1/2		1/2		1/2	3,344.46	1/2	3,114.17	1/2	2,883.88	1/2	2,653.61	1/2	2,410.02	1/2	2,161.52	1/2	1,912.96
3/4		3/4		3/4		3/4	3,339.66	3/4	3,109.38	3/4	2,879.09	3/4	2,648.82	3/4	2,404.85	3/4	2,156.34	3/4	1,907.78
1		1		1		1	3,334.86	1	3,104.58	1	2,874.29	1	2,644.02	1	2,399.67	1	2,151.15	1	1,902.60
1/4		1/4		1/4		1/4	3,330.06	1/4	3,099.78	1/4	2,869.49	1/4	2,639.22	1/4	2,394.49	1/4	2,145.97	1/4	1,897.42
1/2		1/2		1/2		1/2	3,325.27	1/2	3,094.98	1/2	2,864.69	1/2	2,634.42	1/2	2,389.31	1/2	2,140.80	1/2	1,892.25
3/4		3/4		3/4		3/4	3,320.47	3/4	3,090.19	3/4	2,859.90	3/4	2,629.63	3/4	2,384.14	3/4	2,135.62	3/4	1,887.07
2		2		2	3,497.21	2	3,315.67	2	3,085.39	2	2,855.10	2	2,624.83	2	2,378.96	2	2,130.44	2	1,881.89
1/4		1/4		1/4		1/4	3,495.94	1/4	3,310.87	1/4	3,080.59	1/4	2,850.30	1/4	2,620.03	1/4	2,373.78	1/4	1,876.71
1/2		1/2		1/2		1/2	3,494.67	1/2	3,306.08	1/2	3,075.79	1/2	2,845.50	1/2	2,615.23	1/2	2,368.60	1/2	1,871.54
3/4		3/4		3/4		3/4	3,493.39	3/4	3,301.28	3/4	3,071.00	3/4	2,840.71	3/4	2,610.44	3/4	2,363.43	3/4	1,866.36
3		3		3	3,492.12	3	3,296.48	3	3,066.20	3	2,835.91	3	2,605.64	3	2,358.25	3	2,109.73	3	1,861.18
1/4		1/4		1/4		1/4	3,490.25	1/4	3,291.68	1/4	3,061.40	1/4	2,831.11	1/4	2,600.74	1/4	2,353.07	1/4	1,856.00
1/2		1/2		1/2		1/2	3,488.37	1/2	3,286.89	1/2	3,056.60	1/2	2,826.31	1/2	2,595.85	1/2	2,347.89	1/2	1,850.83
3/4		3/4		3/4		3/4	3,486.50	3/4	3,282.09	3/4	3,051.81	3/4	2,821.52	3/4	2,590.95	3/4	2,342.72	3/4	1,845.65
4		4		4	3,484.62	4	3,277.29	4	3,047.01	4	2,816.72	4	2,586.06	4	2,337.54	4	2,089.02	4	1,840.47
1/4		1/4		1/4		1/4	3,482.15	1/4	3,272.49	1/4	3,042.21	1/4	2,811.92	1/4	2,580.88	1/4	2,332.36	1/4	1,835.29
1/2		1/2		1/2		1/2	3,479.68	1/2	3,267.70	1/2	3,037.41	1/2	2,807.12	1/2	2,575.70	1/2	2,327.18	1/2	1,830.11
3/4		3/4		3/4		3/4	3,477.20	3/4	3,262.90	3/4	3,032.62	3/4	2,802.33	3/4	2,570.53	3/4	2,322.01	3/4	1,824.93
5		5		5	3,474.73	5	3,258.10	5	3,027.82	5	2,797.53	5	2,565.35	5	2,316.83	5	2,068.30	5	1,819.75
1/4		1/4		1/4		1/4	3,471.66	1/4	3,253.30	1/4	3,023.02	1/4	2,792.73	1/4	2,560.17	1/4	2,311.65	1/4	1,814.57
1/2		1/2		1/2		1/2	3,468.58	1/2	3,248.51	1/2	3,018.22	1/2	2,787.93	1/2	2,554.99	1/2	2,306.47	1/2	1,809.40
3/4		3/4		3/4		3/4	3,465.51	3/4	3,243.71	3/4	3,013.42	3/4	2,783.14	3/4	2,549.82	3/4	2,301.30	3/4	1,804.22
6		6		6	3,462.43	6	3,238.91	6	3,008.62	6	2,778.34	6	2,544.64	6	2,296.12	6	2,047.59	6	1,799.04
1/4		1/4		1/4		1/4	3,458.76	1/4	3,234.11	1/4	3,003.82	1/4	2,773.54	1/4	2,539.46	1/4	2,290.94	1/4	1,793.86
1/2		1/2		1/2		1/2	3,455.09	1/2	3,229.32	1/2	2,999.02	1/2	2,768.74	1/2	2,534.28	1/2	2,285.76	1/2	1,788.69
3/4		3/4		3/4		3/4	3,451.41	3/4	3,224.52	3/4	2,994.23	3/4	2,763.95	3/4	2,529.11	3/4	2,280.59	3/4	1,783.51
7		7		7	3,447.74	7	3,219.72	7	2,989.43	7	2,759.15	7	2,523.93	7	2,275.41	7	2,026.88	7	1,778.33
1/4		1/4		1/4		1/4	3,443.47	1/4	3,214.92	1/4	2,984.63	1/4	2,754.35	1/4	2,518.75	1/4	2,270.23	1/4	1,773.15
1/2		1/2		1/2		1/2	3,439.20	1/2	3,210.12	1/2	2,979.83	1/2	2,749.55	1/2	2,513.57	1/2	2,265.05	1/2	1,767.98
3/4		3/4		3/4		3/4	3,434.92	3/4	3,205.33	3/4	2,975.04	3/4	2,744.76	3/4	2,508.40	3/4	2,259.88	3/4	1,762.80
8		8		8	3,430.65	8	3,200.53	8	2,970.24	8	2,739.96	8	2,503.22	8	2,254.70	8	2,006.17	8	1,757.62
1/4		1/4		1/4		1/4	3,425.90	1/4	3,195.73	1/4	2,965.44	1/4	2,735.16	1/4	2,498.04	1/4	2,249.52	1/4	1,752.44
1/2		1/2		1/2		1/2	3,421.14	1/2	3,190.93	1/2	2,960.64	1/2	2,730.36	1/2	2,492.86	1/2	2,244.34	1/2	1,747.27
3/4		3/4		3/4		3/4	3,416.39	3/4	3,186.14	3/4	2,955.85	3/4	2,725.57	3/4	2,487.69	3/4	2,239.17	3/4	1,742.09
9		9		9	3,411.63	9	3,181.34	9	2,951.05	9	2,720.77	9	2,482.51	9	2,233.99	9	1,985.45	9	1,736.91
1/4		1/4		1/4		1/4	3,406.83	1/4	3,176.54	1/4	2,946.25	1/4	2,715.97	1/4	2,477.33	1/4	2,228.81	1/4	1,980.27
1/2		1/2		1/2		1/2	3,402.04	1/2	3,171.74	1/2	2,941.45	1/2	2,711.17	1/2	2,472.15	1/2	2,223.63	1/2	1,975.10
3/4		3/4		3/4		3/4	3,397.24	3/4	3,166.95	3/4	2,936.66	3/4	2,706.38	3/4	2,466.98	3/4	2,218.46	3/4	1,969.92
10		10		10	3,392.44	10	3,162.15	10	2,931.86	10	2,701.58	10	2,461.80	10	2,213.28	10	1,964.74	10	1,716.19
1/4		1/4		1/4		1/4	3,387.64	1/4	3,157.35	1/4	2,927.06	1/4	2,696.78	1/4	2,456.62	1/4	2,208.10	1/4	1,959.56
1/2		1/2		1/2		1/2	3,382.84	1/2	3,152.55	1/2	2,922.26	1/2	2,691.99	1/2	2,451.44	1/2	2,202.92	1/2	1,954.39
3/4		3/4		3/4		3/4	3,378.04	3/4	3,147.76	3/4	2,917.47	3/4	2,687.19	3/4	2,446.27	3/4	2,197.75	3/4	1,949.21
11		11		11	3,373.24	11	3,142.96	11	2,912.67	11	2,682.40	11	2,441.09	11	2,192.57	11	1,944.03	11	1,695.48
1/4		1/4		1/4		1/4	3,368.44	1/4	3,138.16	1/4	2,907.87	1/4	2,677.60	1/4	2,435.91	1/4	2,187.40	1/4	1,938.85
1/2		1/2		1/2		1/2	3,363.65	1/2	3,133.36	1/2	2,903.07	1/2	2,672.80	1/2	2,430.73	1/2	2,182.23	1/2	1,933.68
3/4		3/4		3/4		3/4	3,358.85	3/4	3,128.57	3/4	2,898.28	3/4	2,668.01	3/4	2,425.56	3/4	2,177.06	3/4	1,928.50

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "MMC" CLOSED GAUGING DEVICE.
GAUGE POINT: (MMC) LOCATED 00'-09" OFF CENTERLINE AND 25'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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BARGE "CBC 23"

1 CENTER ULLAGE TABLE

FORMERLY "GBL 1810 and KIRBY 10380"

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

GAUGE HEIGHT 16'-11"

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	1,674.77	0	1,426.23	0	1,177.69	0	929.15	0	680.73	0	432.53	0	184.00	0		0		0	
1/4	1,669.59	1/4	1,421.05	1/4	1,172.51	1/4	923.97	1/4	675.56	1/4	427.35	1/4	178.82	1/4		1/4		1/4	
1/2	1,664.42	1/2	1,415.88	1/2	1,167.34	1/2	918.79	1/2	670.40	1/2	422.17	1/2	173.64	1/2		1/2		1/2	
3/4	1,659.24	3/4	1,410.70	3/4	1,162.16	3/4	913.62	3/4	665.23	3/4	417.00	3/4	168.47	3/4		3/4		3/4	
1	1,654.06	1	1,405.52	1	1,156.98	1	908.44	1	660.07	1	411.82	1	163.29	1		1		1	
1/4	1,648.88	1/4	1,400.34	1/4	1,151.80	1/4	903.26	1/4	654.90	1/4	406.64	1/4	158.11	1/4		1/4		1/4	
1/2	1,643.70	1/2	1,395.16	1/2	1,146.63	1/2	898.08	1/2	649.73	1/2	401.46	1/2	152.93	1/2		1/2		1/2	
3/4	1,638.52	3/4	1,389.98	3/4	1,141.45	3/4	892.91	3/4	644.57	3/4	396.29	3/4	147.76	3/4		3/4		3/4	
2	1,633.34	2	1,384.80	2	1,136.27	2	887.73	2	639.40	2	391.11	2	142.58	2		2		2	
1/4	1,628.16	1/4	1,379.62	1/4	1,131.09	1/4	882.55	1/4	634.23	1/4	385.93	1/4	137.40	1/4		1/4		1/4	
1/2	1,622.99	1/2	1,374.45	1/2	1,125.91	1/2	877.37	1/2	629.06	1/2	380.75	1/2	132.22	1/2		1/2		1/2	
3/4	1,617.81	3/4	1,369.27	3/4	1,120.73	3/4	872.19	3/4	623.90	3/4	375.58	3/4	127.05	3/4		3/4		3/4	
3	1,612.63	3	1,364.09	3	1,115.55	3	867.01	3	618.73	3	370.40	3	121.87	3		3		3	
1/4	1,607.45	1/4	1,358.91	1/4	1,110.37	1/4	861.83	1/4	613.56	1/4	365.22	1/4	116.69	1/4		1/4		1/4	
1/2	1,602.28	1/2	1,353.74	1/2	1,105.20	1/2	856.65	1/2	608.39	1/2	360.04	1/2	111.51	1/2		1/2		1/2	
3/4	1,597.10	3/4	1,348.56	3/4	1,100.02	3/4	851.48	3/4	603.23	3/4	354.87	3/4	106.34	3/4		3/4		3/4	
4	1,591.92	4	1,343.38	4	1,094.84	4	846.30	4	598.06	4	349.69	4	101.16	4		4		4	
1/4	1,586.74	1/4	1,338.20	1/4	1,089.66	1/4	841.12	1/4	592.89	1/4	344.51	1/4	96.03	1/4		1/4		1/4	
1/2	1,581.57	1/2	1,333.03	1/2	1,084.49	1/2	835.94	1/2	587.72	1/2	339.33	1/2	90.90	1/2		1/2		1/2	
3/4	1,576.39	3/4	1,327.85	3/4	1,079.31	3/4	830.77	3/4	582.56	3/4	334.16	3/4	85.78	3/4		3/4		3/4	
5	1,571.21	5	1,322.67	5	1,074.13	5	825.59	5	577.39	5	328.98	5	80.65	5		5		5	
1/4	1,566.03	1/4	1,317.49	1/4	1,068.95	1/4	820.41	1/4	572.22	1/4	323.80	1/4	75.69	1/4		1/4		1/4	
1/2	1,560.86	1/2	1,312.32	1/2	1,063.78	1/2	815.23	1/2	567.06	1/2	318.62	1/2	70.73	1/2		1/2		1/2	
3/4	1,555.68	3/4	1,307.14	3/4	1,058.60	3/4	810.06	3/4	561.89	3/4	313.45	3/4	65.77	3/4		3/4		3/4	
6	1,550.50	6	1,301.96	6	1,053.42	6	804.88	6	556.73	6	308.27	6	60.81	6		6		6	
1/4	1,545.32	1/4	1,296.78	1/4	1,048.24	1/4	799.70	1/4	551.56	1/4	303.09	1/4	56.13	1/4		1/4		1/4	
1/2	1,540.14	1/2	1,291.61	1/2	1,043.07	1/2	794.52	1/2	546.39	1/2	297.91	1/2	51.45	1/2		1/2		1/2	
3/4	1,534.96	3/4	1,286.43	3/4	1,037.89	3/4	789.35	3/4	541.23	3/4	292.73	3/4	46.77	3/4		3/4		3/4	
7	1,529.78	7	1,281.25	7	1,032.71	7	784.17	7	536.06	7	287.55	7	42.09	7		7		7	
1/4	1,524.60	1/4	1,276.07	1/4	1,027.53	1/4	778.99	1/4	530.88	1/4	282.37	1/4	37.76	1/4		1/4		1/4	
1/2	1,519.43	1/2	1,270.90	1/2	1,022.36	1/2	773.81	1/2	525.71	1/2	277.19	1/2	33.43	1/2		1/2		1/2	
3/4	1,514.25	3/4	1,265.72	3/4	1,017.18	3/4	768.64	3/4	520.53	3/4	272.02	3/4	29.10	3/4		3/4		3/4	
8	1,509.07	8	1,260.54	8	1,012.00	8	763.46	8	515.36	8	266.84	8	24.77	8		8		8	
1/4	1,503.89	1/4	1,255.36	1/4	1,006.82	1/4	758.28	1/4	510.18	1/4	261.66	1/4	21.41	1/4		1/4		1/4	
1/2	1,498.72	1/2	1,250.18	1/2	1,001.64	1/2	753.10	1/2	505.00	1/2	256.48	1/2	18.06	1/2		1/2		1/2	
3/4	1,493.54	3/4	1,245.00	3/4	996.46	3/4	747.92	3/4	499.83	3/4	251.31	3/4	14.70	3/4		3/4		3/4	
9	1,488.36	9	1,239.82	9	991.28	9	742.74	9	494.65	9	246.13	9	11.35	9		9		9	
1/4	1,483.18	1/4	1,234.64	1/4	986.10	1/4	737.57	1/4	489.47	1/4	240.95	1/4	9.38	1/4		1/4		1/4	
1/2	1,478.01	1/2	1,229.47	1/2	980.92	1/2	732.40	1/2	484.29	1/2	235.77	1/2	7.41	1/2		1/2		1/2	
3/4	1,472.83	3/4	1,224.29	3/4	975.75	3/4	727.24	3/4	479.12	3/4	230.60	3/4	5.44	3/4		3/4		3/4	
10	1,467.65	10	1,219.11	10	970.57	10	722.07	10	473.94	10	225.42	10	3.47	10		10		10	
1/4	1,462.47	1/4	1,213.93	1/4	965.39	1/4	716.90	1/4	468.76	1/4	220.24	1/4	2.76	1/4		1/4		1/4	
1/2	1,457.30	1/2	1,208.76	1/2	960.21	1/2	711.73	1/2	463.59	1/2	215.06	1/2	2.05	1/2		1/2		1/2	
3/4	1,452.12	3/4	1,203.58	3/4	955.04	3/4	706.57	3/4	458.41	3/4	209.89	3/4	1.34	3/4		3/4		3/4	
11	1,446.94	11	1,198.40	11	949.86	11	701.40	11	453.24	11	204.71	11	0.63	11		11		11	
1/4	1,441.76	1/4	1,193.22	1/4	944.68	1/4	696.23	1/4	448.06	1/4	199.53	1/4		1/4		1/4		1/4	
1/2	1,436.59	1/2	1,188.05	1/2	939.50	1/2	691.06	1/2	442.88	1/2	194.35	1/2		1/2		1/2		1/2	
3/4	1,431.41	3/4	1,182.87	3/4	934.33	3/4	685.90	3/4	437.71	3/4	189.18	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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CANCELS AND SUPERCEDES
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BARGE "CBC 23"

2 CENTER ULLAGE TABLE

FORMERLY "GBL 1810 and KIRBY 10380"

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

GAUGE HEIGHT 17'-00 1/8"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.				
0		0		0		0	3,435.61	0	3,187.13	0	2,938.66	0	2,690.25	0	2,441.85	0	2,193.44	0	1,945.01				
1/4		1/4		1/4		1/4	3,430.43	1/4	3,181.96	1/4	2,933.48	1/4	2,685.08	1/4	2,436.68	1/4	2,188.26	1/4	1,939.84				
1/2		1/2		1/2		1/2	3,425.26	1/2	3,176.78	1/2	2,928.31	1/2	2,679.90	1/2	2,431.50	1/2	2,183.09	1/2	1,934.66				
3/4		3/4		3/4		3/4	3,420.08	3/4	3,171.61	3/4	2,923.13	3/4	2,674.73	3/4	2,426.33	3/4	2,177.91	3/4	1,929.49				
1		1		1		1	3,414.90	1	3,166.43	1	2,917.96	1	2,669.55	1	2,421.15	1	2,172.74	1	1,924.31				
1/4		1/4		1/4		1/4	3,409.72	1/4	3,161.25	1/4	2,912.78	1/4	2,664.38	1/4	2,415.98	1/4	2,167.56	1/4	1,919.14				
1/2		1/2		1/2		1/2	3,404.55	1/2	3,156.08	1/2	2,907.61	1/2	2,659.20	1/2	2,410.80	1/2	2,162.39	1/2	1,913.96				
3/4		3/4		3/4		3/4	3,399.37	3/4	3,150.90	3/4	2,902.43	3/4	2,654.03	3/4	2,405.63	3/4	2,157.21	3/4	1,908.79				
2		2		2		2	3,394.19	2	3,145.72	2	2,897.26	2	2,648.85	2	2,400.45	2	2,152.04	2	1,903.61				
1/4		1/4		1/4		1/4	3,389.02	1/4	3,140.54	1/4	2,892.08	1/4	2,643.68	1/4	2,395.28	1/4	2,146.86	1/4	1,898.43				
1/2		1/2		1/2		1/2	3,383.84	1/2	3,135.37	1/2	2,886.91	1/2	2,638.50	1/2	2,390.10	1/2	2,141.69	1/2	1,893.26				
3/4		3/4		3/4		3/4	3,378.67	3/4	3,130.19	3/4	2,881.73	3/4	2,633.33	3/4	2,384.93	3/4	2,136.51	3/4	1,888.08				
3		3		3 1/8		3	3,373.49	3	3,125.01	3	2,876.56	3	2,628.15	3	2,379.75	3	2,131.34	3	1,882.90				
1/4		1/4		1/4		1/4	3,568.82	1/4	3,368.31	1/4	3,119.84	1/4	2,871.38	1/4	2,622.98	1/4	2,374.58	1/4	2,126.16	1/4	1,877.72		
1/2		1/2		1/2		1/2	3,568.11	1/2	3,363.14	1/2	3,114.66	1/2	2,866.21	1/2	2,617.80	1/2	2,369.40	1/2	2,120.99	1/2	1,872.55		
3/4		3/4		3/4		3/4	3,566.70	3/4	3,357.96	3/4	3,109.49	3/4	2,861.03	3/4	2,612.63	3/4	2,364.23	3/4	2,115.81	3/4	1,867.37		
4		4		4		4	3,565.28	4	3,352.78	4	3,104.31	4	2,855.86	4	2,607.45	4	2,359.05	4	2,110.64	4	1,862.20		
1/4		1/4		1/4		1/4	3,563.72	1/4	3,561.85	1/4	3,347.60	1/4	3,099.13	1/4	2,850.68	1/4	2,602.28	1/4	2,353.88	1/4	2,105.46	1/4	1,857.02
1/2		1/2		1/2		1/2	3,561.85	1/2	3,559.83	1/2	3,342.43	1/2	3,093.96	1/2	2,845.51	1/2	2,597.10	1/2	2,348.70	1/2	2,100.29	1/2	1,851.85
3/4		3/4		3/4		3/4	3,557.80	3/4	3,557.80	3/4	3,337.25	3/4	3,088.78	3/4	2,840.33	3/4	2,591.93	3/4	2,343.53	3/4	2,095.11	3/4	1,846.67
5		5		5		5	3,555.62	5	3,555.62	5	3,332.08	5	3,083.60	5	2,835.16	5	2,586.75	5	2,338.35	5	2,089.93	5	1,841.50
1/4		1/4		1/4		1/4	3,553.11	1/4	3,553.11	1/4	3,326.90	1/4	3,078.42	1/4	2,829.98	1/4	2,581.58	1/4	2,333.17	1/4	2,084.76	1/4	1,836.32
1/2		1/2		1/2		1/2	3,550.45	1/2	3,550.45	1/2	3,321.73	1/2	3,073.25	1/2	2,824.81	1/2	2,576.40	1/2	2,328.00	1/2	2,079.58	1/2	1,831.15
3/4		3/4		3/4		3/4	3,547.78	3/4	3,547.78	3/4	3,316.55	3/4	3,068.07	3/4	2,819.63	3/4	2,571.23	3/4	2,322.82	3/4	2,074.41	3/4	1,825.97
6		6		6		6	3,544.95	6	3,544.95	6	3,311.37	6	3,062.90	6	2,814.46	6	2,566.05	6	2,317.64	6	2,069.23	6	1,820.80
1/4		1/4		1/4		1/4	3,541.79	1/4	3,541.79	1/4	3,306.19	1/4	3,057.72	1/4	2,809.28	1/4	2,560.88	1/4	2,312.46	1/4	2,064.06	1/4	1,815.62
1/2		1/2		1/2		1/2	3,538.48	1/2	3,538.48	1/2	3,301.02	1/2	3,052.55	1/2	2,804.11	1/2	2,555.70	1/2	2,307.29	1/2	2,058.88	1/2	1,810.45
3/4		3/4		3/4		3/4	3,535.16	3/4	3,535.16	3/4	3,295.84	3/4	3,047.37	3/4	2,798.93	3/4	2,550.53	3/4	2,302.11	3/4	2,053.71	3/4	1,805.27
7		7		7		7	3,531.68	7	3,531.68	7	3,290.66	7	3,042.19	7	2,793.76	7	2,545.35	7	2,296.94	7	2,048.53	7	1,800.09
1/4		1/4		1/4		1/4	3,527.88	1/4	3,527.88	1/4	3,285.48	1/4	3,037.01	1/4	2,788.58	1/4	2,540.18	1/4	2,291.76	1/4	2,043.35	1/4	1,794.92
1/2		1/2		1/2		1/2	3,523.92	1/2	3,523.92	1/2	3,280.31	1/2	3,031.84	1/2	2,783.41	1/2	2,535.00	1/2	2,286.59	1/2	2,038.18	1/2	1,789.74
3/4		3/4		3/4		3/4	3,519.95	3/4	3,519.95	3/4	3,275.13	3/4	3,026.66	3/4	2,778.23	3/4	2,529.83	3/4	2,281.41	3/4	2,033.00	3/4	1,784.57
8		8		8		8	3,515.83	8	3,515.83	8	3,269.96	8	3,021.48	8	2,773.05	8	2,524.65	8	2,276.24	8	2,027.82	8	1,779.39
1/4		1/4		1/4		1/4	3,511.38	1/4	3,511.38	1/4	3,264.78	1/4	3,016.30	1/4	2,767.88	1/4	2,519.48	1/4	2,271.06	1/4	2,022.64	1/4	1,774.22
1/2		1/2		1/2		1/2	3,506.77	1/2	3,506.77	1/2	3,259.61	1/2	3,011.13	1/2	2,762.70	1/2	2,514.30	1/2	2,265.89	1/2	2,017.47	1/2	1,769.04
3/4		3/4		3/4		3/4	3,502.15	3/4	3,502.15	3/4	3,254.43	3/4	3,005.95	3/4	2,757.53	3/4	2,509.13	3/4	2,260.71	3/4	2,012.29	3/4	1,763.87
9		9		9		9	3,497.41	9	3,497.41	9	3,249.25	9	3,000.78	9	2,752.35	9	2,503.95	9	2,255.54	9	2,007.12	9	1,758.69
1/4		1/4		1/4		1/4	3,492.41	1/4	3,492.41	1/4	3,244.08	1/4	2,995.60	1/4	2,747.18	1/4	2,498.78	1/4	2,250.36	1/4	2,001.94	1/4	1,753.51
1/2		1/2		1/2		1/2	3,487.28	1/2	3,487.28	1/2	3,238.90	1/2	2,990.43	1/2	2,742.00	1/2	2,493.60	1/2	2,245.19	1/2	1,996.77	1/2	1,748.34
3/4		3/4		3/4		3/4	3,482.15	3/4	3,482.15	3/4	3,233.73	3/4	2,985.25	3/4	2,736.83	3/4	2,488.43	3/4	2,240.01	3/4	1,991.59	3/4	1,743.16
10		10		10		10	3,477.01	10	3,477.01	10	3,228.55	10	2,980.07	10	2,731.65	10	2,483.25	10	2,234.84	10	1,986.42	10	1,737.98
1/4		1/4		1/4		1/4	3,471.84	1/4	3,471.84	1/4	3,223.37	1/4	2,974.90	1/4	2,726.48	1/4	2,478.08	1/4	2,229.66	1/4	1,981.24	1/4	1,732.80
1/2		1/2		1/2		1/2	3,466.67	1/2	3,466.67	1/2	3,218.20	1/2	2,969.72	1/2	2,721.30	1/2	2,472.90	1/2	2,224.49	1/2	1,976.07	1/2	1,727.63
3/4		3/4		3/4		3/4	3,461.49	3/4	3,461.49	3/4	3,213.02	3/4	2,964.55	3/4	2,716.13	3/4	2,467.73	3/4	2,219.31	3/4	1,970.89	3/4	1,722.45
11		11		11		11	3,456.31	11	3,456.31	11	3,207.84	11	2,959.37	11	2,710.95	11	2,462.55	11	2,214.14	11	1,965.72	11	1,717.28
1/4		1/4		1/4		1/4	3,451.14	1/4	3,451.14	1/4	3,202.66	1/4	2,954.19	1/4	2,705.78	1/4	2,457.38	1/4	2,208.96	1/4	1,960.54	1/4	1,712.10
1/2		1/2		1/2		1/2	3,445.96	1/2	3,445.96	1/2	3,197.49	1/2	2,949.02	1/2	2,700.60	1/2	2,452.20	1/2	2,203.79	1/2	1,955.37	1/2	1,706.93
3/4		3/4		3/4		3/4	3,440.79	3/4	3,440.79	3/4	3,192.31	3/4	2,943.84	3/4	2,695.43	3/4	2,447.03	3/4	2,198.61	3/4	1,950.19	3/4	1,701.75

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "MMC" CLOSED GAUGING DEVICE.
GAUGE POINT: (MMC) LOCATED 00'-09" OFF CENTERLINE AND 31'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "CBC 23"

2 CENTER ULLAGE TABLE

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

FORMERLY "GBL 1810 and KIRBY 10380"

GAUGE HEIGHT 17'-00 1/8"

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	1,696.58	0	1,448.15	0	1,199.73	0	951.30	0	702.95	0	454.91	0	206.50	0	0.68	0		0	
1/4	1,691.40	1/4	1,442.98	1/4	1,194.56	1/4	946.12	1/4	697.79	1/4	449.74	1/4	201.32	1/8		1/4		1/4	
1/2	1,686.23	1/2	1,437.80	1/2	1,189.38	1/2	940.95	1/2	692.62	1/2	444.56	1/2	196.15	1/2		1/2		1/2	
3/4	1,681.05	3/4	1,432.63	3/4	1,184.21	3/4	935.77	3/4	687.46	3/4	439.39	3/4	190.97	3/4		3/4		3/4	
1	1,675.87	1	1,427.45	1	1,179.03	1	930.60	1	682.29	1	434.21	1	185.80	1	1	1		1	
1/4	1,670.70	1/4	1,422.28	1/4	1,173.85	1/4	925.42	1/4	677.13	1/4	429.03	1/4	180.62	1/4		1/4		1/4	
1/2	1,665.52	1/2	1,417.10	1/2	1,168.68	1/2	920.25	1/2	671.96	1/2	423.86	1/2	175.45	1/2		1/2		1/2	
3/4	1,660.35	3/4	1,411.93	3/4	1,163.50	3/4	915.07	3/4	666.80	3/4	418.68	3/4	170.27	3/4		3/4		3/4	
2	1,655.17	2	1,406.75	2	1,158.32	2	909.90	2	661.63	2	413.50	2	165.09	2	2	2		2	
1/4	1,650.00	1/4	1,401.57	1/4	1,153.14	1/4	904.72	1/4	656.47	1/4	408.32	1/4	159.92	1/4		1/4		1/4	
1/2	1,644.82	1/2	1,396.40	1/2	1,147.97	1/2	899.55	1/2	651.31	1/2	403.15	1/2	154.74	1/2		1/2		1/2	
3/4	1,639.65	3/4	1,391.22	3/4	1,142.79	3/4	894.37	3/4	646.14	3/4	397.97	3/4	149.57	3/4		3/4		3/4	
3	1,634.47	3	1,386.04	3	1,137.62	3	889.20	3	640.98	3	392.80	3	144.39	3	3	3		3	
1/4	1,629.30	1/4	1,380.86	1/4	1,132.44	1/4	884.02	1/4	635.81	1/4	387.62	1/4	139.22	1/4		1/4		1/4	
1/2	1,624.12	1/2	1,375.69	1/2	1,127.27	1/2	878.85	1/2	630.65	1/2	382.45	1/2	134.04	1/2		1/2		1/2	
3/4	1,618.95	3/4	1,370.51	3/4	1,122.09	3/4	873.67	3/4	625.48	3/4	377.27	3/4	128.87	3/4		3/4		3/4	
4	1,613.77	4	1,365.34	4	1,116.92	4	868.49	4	620.32	4	372.10	4	123.69	4	4	4		4	
1/4	1,608.59	1/4	1,360.16	1/4	1,111.74	1/4	863.32	1/4	615.15	1/4	366.92	1/4	118.52	1/4		1/4		1/4	
1/2	1,603.42	1/2	1,354.99	1/2	1,106.57	1/2	858.14	1/2	609.99	1/2	361.75	1/2	113.34	1/2		1/2		1/2	
3/4	1,598.24	3/4	1,349.81	3/4	1,101.39	3/4	852.97	3/4	604.82	3/4	356.57	3/4	108.17	3/4		3/4		3/4	
5	1,593.06	5	1,344.64	5	1,096.22	5	847.79	5	599.66	5	351.40	5	103.09	5	5	5		5	
1/4	1,587.88	1/4	1,339.46	1/4	1,091.04	1/4	842.62	1/4	594.49	1/4	346.22	1/4	98.23	1/4		1/4		1/4	
1/2	1,582.71	1/2	1,334.29	1/2	1,085.87	1/2	837.44	1/2	589.33	1/2	341.05	1/2	93.46	1/2		1/2		1/2	
3/4	1,577.53	3/4	1,329.11	3/4	1,080.69	3/4	832.27	3/4	584.16	3/4	335.87	3/4	88.70	3/4		3/4		3/4	
6	1,572.36	6	1,323.94	6	1,075.51	6	827.09	6	579.00	6	330.70	6	84.04	6	6	6		6	
1/4	1,567.18	1/4	1,318.76	1/4	1,070.34	1/4	821.92	1/4	573.83	1/4	325.52	1/4	79.59	1/4		1/4		1/4	
1/2	1,562.01	1/2	1,313.59	1/2	1,065.16	1/2	816.74	1/2	568.67	1/2	320.35	1/2	75.26	1/2		1/2		1/2	
3/4	1,556.83	3/4	1,308.41	3/4	1,059.99	3/4	811.57	3/4	563.50	3/4	315.17	3/4	70.92	3/4		3/4		3/4	
7	1,551.66	7	1,303.24	7	1,054.81	7	806.39	7	558.34	7	310.00	7	66.61	7	7	7		7	
1/4	1,546.48	1/4	1,298.06	1/4	1,049.64	1/4	801.21	1/4	553.17	1/4	304.82	1/4	62.36	1/4		1/4		1/4	
1/2	1,541.31	1/2	1,292.89	1/2	1,044.46	1/2	796.04	1/2	548.01	1/2	299.65	1/2	58.15	1/2		1/2		1/2	
3/4	1,536.13	3/4	1,287.71	3/4	1,039.29	3/4	790.86	3/4	542.84	3/4	294.47	3/4	53.93	3/4		3/4		3/4	
8	1,530.96	8	1,282.54	8	1,034.11	8	785.68	8	537.68	8	289.30	8	49.66	8	8	8		8	
1/4	1,525.78	1/4	1,277.36	1/4	1,028.94	1/4	780.50	1/4	532.51	1/4	284.12	1/4	45.26	1/4		1/4		1/4	
1/2	1,520.61	1/2	1,272.19	1/2	1,023.76	1/2	775.33	1/2	527.34	1/2	278.95	1/2	40.80	1/2		1/2		1/2	
3/4	1,515.43	3/4	1,267.01	3/4	1,018.59	3/4	770.15	3/4	522.17	3/4	273.77	3/4	36.34	3/4		3/4		3/4	
9	1,510.26	9	1,261.83	9	1,013.41	9	764.98	9	517.00	9	268.60	9	31.97	9	9	9		9	
1/4	1,505.08	1/4	1,256.66	1/4	1,008.24	1/4	759.80	1/4	511.82	1/4	263.42	1/4	27.79	1/4		1/4		1/4	
1/2	1,499.91	1/2	1,251.48	1/2	1,003.06	1/2	754.63	1/2	506.65	1/2	258.25	1/2	23.70	1/2		1/2		1/2	
3/4	1,494.73	3/4	1,246.31	3/4	997.89	3/4	749.45	3/4	501.47	3/4	253.07	3/4	19.61	3/4		3/4		3/4	
10	1,489.55	10	1,241.13	10	992.71	10	744.28	10	496.30	10	247.90	10	15.88	10	10	10		10	
1/4	1,484.38	1/4	1,235.96	1/4	987.53	1/4	739.11	1/4	491.12	1/4	242.72	1/4	12.86	1/4		1/4		1/4	
1/2	1,479.20	1/2	1,230.78	1/2	982.36	1/2	733.95	1/2	485.95	1/2	237.55	1/2	10.21	1/2		1/2		1/2	
3/4	1,474.03	3/4	1,225.61	3/4	977.18	3/4	728.78	3/4	480.77	3/4	232.37	3/4	7.55	3/4		3/4		3/4	
11	1,468.85	11	1,220.43	11	972.00	11	723.61	11	475.60	11	227.20	11	5.28	11	11	11		11	
1/4	1,463.68	1/4	1,215.26	1/4	966.82	1/4	718.45	1/4	470.43	1/4	222.02	1/4	3.81	1/4		1/4		1/4	
1/2	1,458.50	1/2	1,210.08	1/2	961.65	1/2	713.28	1/2	465.26	1/2	216.85	1/2	2.72	1/2		1/2		1/2	
3/4	1,453.33	3/4	1,204.91	3/4	956.47	3/4	708.12	3/4	460.08	3/4	211.67	3/4	1.64	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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REPRINTED: NAME CHANGE 07/12/2016

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2016

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Pearland, Texas 77588
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BARGE "CBC 23"

3 CENTER ULLAGE TABLE

FORMERLY "GBL 1810 and KIRBY 10380"

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

GAUGE HEIGHT 16'-11 3/8"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	3,419.39	0	3,170.97	0	2,922.55	0	2,674.19	0	2,425.83	0	2,177.48	0	1,929.09
1/4		1/4		1/4	1/4	1/4	3,414.21	1/4	3,165.79	1/4	2,917.37	1/4	2,669.01	1/4	2,420.66	1/4	2,172.31	1/4	1,923.92
1/2		1/2		1/2	1/2	1/2	3,409.04	1/2	3,160.62	1/2	2,912.20	1/2	2,663.84	1/2	2,415.48	1/2	2,167.14	1/2	1,918.75
3/4		3/4		3/4	3/4	3/4	3,403.86	3/4	3,155.44	3/4	2,907.02	3/4	2,658.67	3/4	2,410.31	3/4	2,161.96	3/4	1,913.58
1		1		1		1	3,398.69	1	3,150.27	1	2,901.85	1	2,653.49	1	2,405.13	1	2,156.79	1	1,908.40
1/4		1/4		1/4	1/4	1/4	3,393.51	1/4	3,145.09	1/4	2,896.67	1/4	2,648.32	1/4	2,399.96	1/4	2,151.61	1/4	1,903.23
1/2		1/2		1/2	1/2	1/2	3,388.34	1/2	3,139.91	1/2	2,891.50	1/2	2,643.14	1/2	2,394.79	1/2	2,146.44	1/2	1,898.06
3/4		3/4		3/4	3/4	3/4	3,383.16	3/4	3,134.74	3/4	2,886.33	3/4	2,637.97	3/4	2,389.62	3/4	2,141.26	3/4	1,892.88
2		2		2		2	3,377.99	2	3,129.56	2	2,881.15	2	2,632.79	2	2,384.44	2	2,136.09	2	1,887.71
1/4		1/4		1/4	3/8	1/4	3,568.10	1/4	3,372.81	1/4	2,875.98	1/4	2,627.62	1/4	2,379.27	1/4	2,130.91	1/4	1,882.53
1/2		1/2		1/2	1/2	1/2	3,567.39	1/2	3,367.64	1/2	2,870.80	1/2	2,622.45	1/2	2,374.10	1/2	2,125.74	1/2	1,877.36
3/4		3/4		3/4	3/4	3/4	3,565.98	3/4	3,362.46	3/4	2,865.63	3/4	2,617.28	3/4	2,368.92	3/4	2,120.56	3/4	1,872.18
3		3		3		3	3,564.56	3	3,357.29	3	2,860.45	3	2,612.10	3	2,363.75	3	2,115.39	3	1,867.01
1/4		1/4		1/4	1/4	1/4	3,563.00	1/4	3,352.11	1/4	2,855.28	1/4	2,606.93	1/4	2,358.57	1/4	2,110.21	1/4	1,861.83
1/2		1/2		1/2	1/2	1/2	3,561.13	1/2	3,346.93	1/2	2,850.10	1/2	2,601.76	1/2	2,353.40	1/2	2,105.04	1/2	1,856.66
3/4		3/4		3/4	3/4	3/4	3,559.11	3/4	3,341.76	3/4	2,844.93	3/4	2,596.58	3/4	2,348.23	3/4	2,099.86	3/4	1,851.48
4		4		4		4	3,557.08	4	3,336.58	4	2,839.75	4	2,591.41	4	2,343.05	4	2,094.69	4	1,846.31
1/4		1/4		1/4	1/4	1/4	3,554.90	1/4	3,331.40	1/4	2,834.58	1/4	2,586.23	1/4	2,337.88	1/4	2,089.51	1/4	1,841.13
1/2		1/2		1/2	1/2	1/2	3,552.39	1/2	3,326.22	1/2	2,829.41	1/2	2,581.06	1/2	2,332.70	1/2	2,084.34	1/2	1,835.96
3/4		3/4		3/4	3/4	3/4	3,549.73	3/4	3,321.05	3/4	2,824.24	3/4	2,575.88	3/4	2,327.53	3/4	2,079.17	3/4	1,830.78
5		5		5		5	3,547.06	5	3,315.87	5	2,819.06	5	2,570.71	5	2,322.35	5	2,073.99	5	1,825.61
1/4		1/4		1/4	1/4	1/4	3,544.23	1/4	3,310.70	1/4	2,813.89	1/4	2,565.53	1/4	2,317.18	1/4	2,068.82	1/4	1,820.43
1/2		1/2		1/2	1/2	1/2	3,541.08	1/2	3,305.52	1/2	2,808.72	1/2	2,560.36	1/2	2,312.00	1/2	2,063.64	1/2	1,815.26
3/4		3/4		3/4	3/4	3/4	3,537.76	3/4	3,300.35	3/4	2,803.54	3/4	2,555.19	3/4	2,306.83	3/4	2,058.47	3/4	1,810.08
6		6		6		6	3,534.45	6	3,295.17	6	2,798.37	6	2,550.01	6	2,301.65	6	2,053.29	6	1,804.91
1/4		1/4		1/4	1/4	1/4	3,530.97	1/4	3,290.00	1/4	2,793.19	1/4	2,544.84	1/4	2,296.48	1/4	2,048.12	1/4	1,799.73
1/2		1/2		1/2	1/2	1/2	3,527.17	1/2	3,284.82	1/2	2,788.02	1/2	2,539.66	1/2	2,291.31	1/2	2,042.94	1/2	1,794.56
3/4		3/4		3/4	3/4	3/4	3,523.21	3/4	3,279.65	3/4	2,782.85	3/4	2,534.49	3/4	2,286.14	3/4	2,037.77	3/4	1,789.38
7		7		7		7	3,519.24	7	3,274.47	7	2,777.67	7	2,529.31	7	2,280.96	7	2,032.59	7	1,784.21
1/4		1/4		1/4	1/4	1/4	3,515.12	1/4	3,269.30	1/4	2,772.50	1/4	2,524.14	1/4	2,275.79	1/4	2,027.42	1/4	1,779.03
1/2		1/2		1/2	1/2	1/2	3,510.67	1/2	3,264.12	1/2	2,767.32	1/2	2,518.97	1/2	2,270.62	1/2	2,022.24	1/2	1,773.86
3/4		3/4		3/4	3/4	3/4	3,506.06	3/4	3,258.95	3/4	2,762.15	3/4	2,513.80	3/4	2,265.44	3/4	2,017.07	3/4	1,768.68
8		8		8		8	3,501.45	8	3,253.77	8	2,756.97	8	2,508.62	8	2,260.27	8	2,011.89	8	1,763.51
1/4		1/4		1/4	1/4	1/4	3,496.71	1/4	3,248.60	1/4	2,751.80	1/4	2,503.45	1/4	2,255.09	1/4	2,006.72	1/4	1,758.33
1/2		1/2		1/2	1/2	1/2	3,491.71	1/2	3,243.42	1/2	2,746.62	1/2	2,498.28	1/2	2,249.92	1/2	2,001.54	1/2	1,753.16
3/4		3/4		3/4	3/4	3/4	3,486.58	3/4	3,238.25	3/4	2,741.45	3/4	2,493.10	3/4	2,244.74	3/4	1,996.37	3/4	1,747.99
9		9		9		9	3,481.45	9	3,233.07	9	2,736.27	9	2,487.93	9	2,239.57	9	1,991.19	9	1,742.81
1/4		1/4		1/4	1/4	1/4	3,476.31	1/4	3,227.89	1/4	2,731.10	1/4	2,482.75	1/4	2,234.39	1/4	1,986.02	1/4	1,737.64
1/2		1/2		1/2	1/2	1/2	3,471.14	1/2	3,222.72	1/2	2,725.93	1/2	2,477.58	1/2	2,229.22	1/2	1,980.84	1/2	1,732.46
3/4		3/4		3/4	3/4	3/4	3,465.97	3/4	3,217.54	3/4	2,720.76	3/4	2,472.40	3/4	2,224.05	3/4	1,975.67	3/4	1,727.29
10		10		10		10	3,460.79	10	3,212.37	10	2,715.58	10	2,467.23	10	2,218.87	10	1,970.49	10	1,722.11
1/4		1/4		1/4	1/4	1/4	3,455.62	1/4	3,207.19	1/4	2,710.41	1/4	2,462.05	1/4	2,213.70	1/4	1,965.32	1/4	1,716.94
1/2		1/2		1/2	1/2	1/2	3,450.44	1/2	3,202.02	1/2	2,705.24	1/2	2,456.88	1/2	2,208.52	1/2	1,960.14	1/2	1,711.76
3/4		3/4		3/4	3/4	3/4	3,445.27	3/4	3,196.84	3/4	2,700.06	3/4	2,451.71	3/4	2,203.35	3/4	1,954.97	3/4	1,706.59
11		11		11		11	3,440.09	11	3,191.67	11	2,694.89	11	2,446.53	11	2,198.17	11	1,949.79	11	1,701.41
1/4		1/4		1/4	1/4	1/4	3,434.91	1/4	3,186.49	1/4	2,689.71	1/4	2,441.36	1/4	2,193.00	1/4	1,944.62	1/4	1,696.24
1/2		1/2		1/2	1/2	1/2	3,429.74	1/2	3,181.32	1/2	2,684.54	1/2	2,436.18	1/2	2,187.83	1/2	1,939.44	1/2	1,691.06
3/4		3/4		3/4	3/4	3/4	3,424.56	3/4	3,176.14	3/4	2,679.36	3/4	2,431.01	3/4	2,182.66	3/4	1,934.27	3/4	1,685.89

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "MMC" CLOSED GAUGING DEVICE.
GAUGE POINT: (MMC) LOCATED 0'-09" OFF CENTERLINE AND 29'-03" 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 "CBC 23"

3 CENTER ULLAGE TABLE

FORMERLY "GBL 1810 and KIRBY 10380"

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

GAUGE HEIGHT 16'-11 3/8"

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	1,680.71	0	1,432.33	0	1,183.97	0	935.59	0	687.32	0	439.29	0	190.93	0		0		0	
1/4	1,675.54	1/4	1,427.16	1/4	1,178.79	1/4	930.42	1/4	682.16	1/4	434.12	1/4	185.76	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,670.36	1/2	1,421.99	1/2	1,173.62	1/2	925.24	1/2	677.00	1/2	428.95	1/2	180.59	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,665.19	3/4	1,416.82	3/4	1,168.44	3/4	920.07	3/4	671.84	3/4	423.78	3/4	175.42	3/4	3/4	3/4	3/4	3/4	3/4
1	1,660.01	1	1,411.64	1	1,163.27	1	914.89	1	666.67	1	418.60	1	170.24	1	1	1	1	1	1
1/4	1,654.84	1/4	1,406.47	1/4	1,158.09	1/4	909.72	1/4	661.51	1/4	413.43	1/4	165.07	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,649.66	1/2	1,401.30	1/2	1,152.92	1/2	904.54	1/2	656.35	1/2	408.26	1/2	159.90	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,644.49	3/4	1,396.12	3/4	1,147.75	3/4	899.37	3/4	651.18	3/4	403.08	3/4	154.72	3/4	3/4	3/4	3/4	3/4	3/4
2	1,639.31	2	1,390.95	2	1,142.57	2	894.19	2	646.02	2	397.91	2	149.55	2	2	2	2	2	2
1/4	1,634.14	1/4	1,385.77	1/4	1,137.40	1/4	889.02	1/4	640.85	1/4	392.73	1/4	144.37	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,628.96	1/2	1,380.60	1/2	1,132.22	1/2	883.84	1/2	635.69	1/2	387.56	1/2	139.20	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,623.79	3/4	1,375.42	3/4	1,127.05	3/4	878.67	3/4	630.53	3/4	382.38	3/4	134.02	3/4	3/4	3/4	3/4	3/4	3/4
3	1,618.61	3	1,370.25	3	1,121.87	3	873.49	3	625.36	3	377.21	3	128.85	3	3	3	3	3	3
1/4	1,613.44	1/4	1,365.07	1/4	1,116.70	1/4	868.32	1/4	620.20	1/4	372.03	1/4	123.67	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,608.27	1/2	1,359.90	1/2	1,111.52	1/2	863.14	1/2	615.03	1/2	366.86	1/2	118.50	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,603.10	3/4	1,354.72	3/4	1,106.35	3/4	857.97	3/4	609.87	3/4	361.69	3/4	113.33	3/4	3/4	3/4	3/4	3/4	3/4
4	1,597.92	4	1,349.55	4	1,101.17	4	852.79	4	604.70	4	356.51	4	108.15	4	4	4	4	4	4
1/4	1,592.75	1/4	1,344.37	1/4	1,096.00	1/4	847.62	1/4	599.54	1/4	351.34	1/4	103.08	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,587.58	1/2	1,339.20	1/2	1,090.82	1/2	842.45	1/2	594.38	1/2	346.16	1/2	98.21	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,582.40	3/4	1,334.03	3/4	1,085.65	3/4	837.28	3/4	589.22	3/4	340.99	3/4	93.45	3/4	3/4	3/4	3/4	3/4	3/4
5	1,577.23	5	1,328.85	5	1,080.47	5	832.10	5	584.05	5	335.81	5	88.68	5	5	5	5	5	5
1/4	1,572.05	1/4	1,323.68	1/4	1,075.30	1/4	826.93	1/4	578.89	1/4	330.64	1/4	84.02	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,566.88	1/2	1,318.50	1/2	1,070.12	1/2	821.76	1/2	573.73	1/2	325.46	1/2	79.58	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,561.70	3/4	1,313.33	3/4	1,064.95	3/4	816.58	3/4	568.56	3/4	320.29	3/4	75.24	3/4	3/4	3/4	3/4	3/4	3/4
6	1,556.53	6	1,308.15	6	1,059.77	6	811.41	6	563.40	6	315.11	6	70.91	6	6	6	6	6	6
1/4	1,551.35	1/4	1,302.98	1/4	1,054.60	1/4	806.23	1/4	558.23	1/4	309.94	1/4	66.60	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,546.18	1/2	1,297.80	1/2	1,049.43	1/2	801.06	1/2	553.07	1/2	304.77	1/2	62.36	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,541.00	3/4	1,292.63	3/4	1,044.26	3/4	795.88	3/4	547.91	3/4	299.60	3/4	58.15	3/4	3/4	3/4	3/4	3/4	3/4
7	1,535.83	7	1,287.45	7	1,039.08	7	790.71	7	542.74	7	294.42	7	53.93	7	7	7	7	7	7
1/4	1,530.65	1/4	1,282.28	1/4	1,033.91	1/4	785.53	1/4	537.58	1/4	289.25	1/4	49.66	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,525.48	1/2	1,277.10	1/2	1,028.74	1/2	780.36	1/2	532.41	1/2	284.08	1/2	45.26	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,520.30	3/4	1,271.93	3/4	1,023.56	3/4	775.18	3/4	527.24	3/4	278.90	3/4	40.80	3/4	3/4	3/4	3/4	3/4	3/4
8	1,515.13	8	1,266.75	8	1,018.39	8	770.01	8	522.07	8	273.73	8	36.33	8	8	8	8	8	8
1/4	1,509.95	1/4	1,261.58	1/4	1,013.21	1/4	764.83	1/4	516.90	1/4	268.55	1/4	31.96	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,504.78	1/2	1,256.40	1/2	1,008.04	1/2	759.66	1/2	511.72	1/2	263.38	1/2	27.78	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,499.61	3/4	1,251.23	3/4	1,002.86	3/4	754.48	3/4	506.55	3/4	258.20	3/4	23.70	3/4	3/4	3/4	3/4	3/4	3/4
9	1,494.43	9	1,246.05	9	997.69	9	749.31	9	501.37	9	253.03	9	19.61	9	9	9	9	9	9
1/4	1,489.26	1/4	1,240.88	1/4	992.51	1/4	744.13	1/4	496.20	1/4	247.85	1/4	15.88	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,484.08	1/2	1,235.71	1/2	987.34	1/2	738.97	1/2	491.03	1/2	242.68	1/2	12.86	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,478.91	3/4	1,230.54	3/4	982.16	3/4	733.80	3/4	485.85	3/4	237.51	3/4	10.21	3/4	3/4	3/4	3/4	3/4	3/4
10	1,473.73	10	1,225.36	10	976.99	10	728.64	10	480.68	10	232.33	10	7.55	10	10	10	10	10	10
1/4	1,468.56	1/4	1,220.19	1/4	971.81	1/4	723.47	1/4	475.51	1/4	227.16	1/4	5.32	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,463.38	1/2	1,215.02	1/2	966.64	1/2	718.31	1/2	470.34	1/2	221.98	1/2	3.94	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,458.21	3/4	1,209.84	3/4	961.46	3/4	713.14	3/4	465.17	3/4	216.81	3/4	3.00	3/4	3/4	3/4	3/4	3/4	3/4
11	1,453.03	11	1,204.67	11	956.29	11	707.98	11	459.99	11	211.63	11	2.05	11	11	11	11	11	11
1/4	1,447.86	1/4	1,199.49	1/4	951.11	1/4	702.81	1/4	454.82	1/4	206.46	1/4	1.10	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,442.68	1/2	1,194.32	1/2	945.94	1/2	697.65	1/2	449.64	1/2	201.28	1/2	0.63	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,437.51	3/4	1,189.14	3/4	940.77	3/4	692.49	3/4	444.47	3/4	196.11	3/4		3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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