



BARGE "KIRBY 27702"

INNAGE TRIM TABLE

FORMERLY "HW 2710"

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
1 STBD	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
2 PORT	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4
2 STBD	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4
3 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
3 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8

(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)

September 10, 2019

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 2 PORT IS 00-1/8"
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 2 PORT, THE TRIM CORRECTED INNAGE IS 4'-00 1/8"

**PRECISION MEASUREMENT
& ANALYSIS, INC.**

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 27702"

1 PORT INNAGE TABLE

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

FORMERLY "HW 2710"

GAUGE HEIGHT 16'-07 3/4"

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	15.54	0	319.80	0	669.95	0	1,034.13	0	1,398.30	0	1,762.48	0	2,126.66	0	2,490.83	0	2,855.01	0	3,219.18
1/4	19.61	1/4	326.80	1/4	677.54	1/4	1,041.72	1/4	1,405.89	1/4	1,770.07	1/4	2,134.25	1/4	2,498.42	1/4	2,862.60	1/4	3,226.77
1/2	23.67	1/2	333.80	1/2	685.13	1/2	1,049.31	1/2	1,413.48	1/2	1,777.66	1/2	2,141.83	1/2	2,506.01	1/2	2,870.19	1/2	3,234.36
3/4	27.74	3/4	340.80	3/4	692.71	3/4	1,056.89	3/4	1,421.06	3/4	1,785.24	3/4	2,149.42	3/4	2,513.59	3/4	2,877.77	3/4	3,241.94
1	31.80	1	347.80	1	700.30	1	1,064.48	1	1,428.65	1	1,792.83	1	2,157.00	1	2,521.18	1	2,885.36	1	3,249.53
1/4	37.20	1/4	354.67	1/4	707.89	1/4	1,072.07	1/4	1,436.24	1/4	1,800.42	1/4	2,164.59	1/4	2,528.77	1/4	2,892.95	1/4	3,257.12
1/2	42.60	1/2	361.55	1/2	715.48	1/2	1,079.65	1/2	1,443.83	1/2	1,808.01	1/2	2,172.18	1/2	2,536.36	1/2	2,900.53	1/2	3,264.71
3/4	47.99	3/4	368.42	3/4	723.06	3/4	1,087.24	3/4	1,451.41	3/4	1,815.59	3/4	2,179.76	3/4	2,543.94	3/4	2,908.12	3/4	3,272.29
2	53.39	2	375.29	2	730.65	2	1,094.82	2	1,459.00	2	1,823.18	2	2,187.35	2	2,551.53	2	2,915.70	2	3,279.88
1/4	59.52	1/4	382.16	1/4	738.24	1/4	1,102.41	1/4	1,466.59	1/4	1,830.77	1/4	2,194.94	1/4	2,559.12	1/4	2,923.29	1/4	3,287.47
1/2	65.65	1/2	389.03	1/2	745.82	1/2	1,110.00	1/2	1,474.18	1/2	1,838.35	1/2	2,202.53	1/2	2,566.71	1/2	2,930.88	1/2	3,295.06
3/4	71.78	3/4	395.90	3/4	753.41	3/4	1,117.58	3/4	1,481.76	3/4	1,845.94	3/4	2,210.11	3/4	2,574.29	3/4	2,938.46	3/4	3,302.64
3	77.91	3	402.77	3	761.00	3	1,125.17	3	1,489.35	3	1,853.52	3	2,217.70	3	2,581.88	3	2,946.05	3	3,310.23
1/4	84.04	1/4	409.64	1/4	768.58	1/4	1,132.76	1/4	1,496.94	1/4	1,861.11	1/4	2,225.29	1/4	2,589.47	1/4	2,953.64	1/4	3,317.82
1/2	90.17	1/2	416.52	1/2	776.17	1/2	1,140.35	1/2	1,504.53	1/2	1,868.70	1/2	2,232.88	1/2	2,597.05	1/2	2,961.23	1/2	3,325.41
3/4	96.30	3/4	423.39	3/4	783.76	3/4	1,147.93	3/4	1,512.11	3/4	1,876.28	3/4	2,240.46	3/4	2,604.64	3/4	2,968.81	3/4	3,332.99
4	102.43	4	430.26	4	791.34	4	1,155.52	4	1,519.70	4	1,883.87	4	2,248.05	4	2,612.22	4	2,976.40	4	3,340.58
1/4	109.06	1/4	437.63	1/4	798.93	1/4	1,163.11	1/4	1,527.29	1/4	1,891.46	1/4	2,255.64	1/4	2,619.81	1/4	2,983.99	1/4	3,348.17
1/2	115.69	1/2	445.00	1/2	806.52	1/2	1,170.70	1/2	1,534.87	1/2	1,899.05	1/2	2,263.23	1/2	2,627.40	1/2	2,991.58	1/2	3,355.75
3/4	122.32	3/4	452.37	3/4	814.10	3/4	1,178.28	3/4	1,542.46	3/4	1,906.63	3/4	2,270.81	3/4	2,634.98	3/4	2,999.16	3/4	3,363.34
5	128.95	5	459.74	5	821.69	5	1,185.87	5	1,550.04	5	1,914.22	5	2,278.40	5	2,642.57	5	3,006.75	5	3,370.92
1/4	135.58	1/4	467.11	1/4	829.28	1/4	1,193.46	1/4	1,557.63	1/4	1,921.81	1/4	2,285.99	1/4	2,650.16	1/4	3,014.34	1/4	3,378.51
1/2	142.22	1/2	474.48	1/2	836.86	1/2	1,201.05	1/2	1,565.22	1/2	1,929.40	1/2	2,293.57	1/2	2,657.75	1/2	3,021.93	1/2	3,386.10
3/4	148.85	3/4	481.85	3/4	844.45	3/4	1,208.63	3/4	1,572.80	3/4	1,936.98	3/4	2,301.16	3/4	2,665.33	3/4	3,029.51	3/4	3,393.68
6	155.48	6	489.22	6	852.04	6	1,216.22	6	1,580.39	6	1,944.57	6	2,308.74	6	2,672.92	6	3,037.10	6	3,401.27
1/4	162.11	1/4	496.59	1/4	859.63	1/4	1,223.81	1/4	1,587.98	1/4	1,952.16	1/4	2,316.33	1/4	2,680.51	1/4	3,044.69	1/4	3,408.86
1/2	168.74	1/2	503.97	1/2	867.21	1/2	1,231.39	1/2	1,595.57	1/2	1,959.75	1/2	2,323.92	1/2	2,688.10	1/2	3,052.27	1/2	3,416.45
3/4	175.37	3/4	511.34	3/4	874.80	3/4	1,238.98	3/4	1,603.15	3/4	1,967.33	3/4	2,331.50	3/4	2,695.68	3/4	3,059.86	3/4	3,424.03
7	182.00	7	518.71	7	882.39	7	1,246.56	7	1,610.74	7	1,974.92	7	2,339.09	7	2,703.27	7	3,067.44	7	3,431.62
1/4	188.82	1/4	526.24	1/4	889.98	1/4	1,254.15	1/4	1,618.33	1/4	1,982.51	1/4	2,346.68	1/4	2,710.86	1/4	3,075.03	1/4	3,439.21
1/2	195.63	1/2	533.76	1/2	897.56	1/2	1,261.74	1/2	1,625.92	1/2	1,990.09	1/2	2,354.27	1/2	2,718.45	1/2	3,082.62	1/2	3,446.80
3/4	202.45	3/4	541.29	3/4	905.15	3/4	1,269.32	3/4	1,633.50	3/4	1,997.68	3/4	2,361.85	3/4	2,726.03	3/4	3,090.20	3/4	3,454.38
8	209.26	8	548.81	8	912.74	8	1,276.91	8	1,641.09	8	2,005.26	8	2,369.44	8	2,733.62	8	3,097.79	8	3,461.97
1/4	216.08	1/4	556.34	1/4	920.32	1/4	1,284.50	1/4	1,648.68	1/4	2,012.85	1/4	2,377.03	1/4	2,741.21	1/4	3,105.38	1/4	3,469.56
1/2	222.90	1/2	563.86	1/2	927.91	1/2	1,292.09	1/2	1,656.27	1/2	2,020.44	1/2	2,384.62	1/2	2,748.79	1/2	3,112.97	1/2	3,477.15
3/4	229.71	3/4	571.39	3/4	935.49	3/4	1,299.67	3/4	1,663.85	3/4	2,028.02	3/4	2,392.20	3/4	2,756.38	3/4	3,120.55	3/4	3,484.73
9	236.53	9	578.91	9	943.08	9	1,307.26	9	1,671.44	9	2,035.61	9	2,399.79	9	2,763.96	9	3,128.14	9	3,492.32
1/4	243.35	1/4	586.50	1/4	950.67	1/4	1,314.85	1/4	1,679.03	1/4	2,043.20	1/4	2,407.38	1/4	2,771.55	1/4	3,135.73	1/4	3,499.91
1/2	250.16	1/2	594.09	1/2	958.25	1/2	1,322.44	1/2	1,686.61	1/2	2,050.79	1/2	2,414.97	1/2	2,779.14	1/2	3,143.32	1/2	3,507.49
3/4	256.98	3/4	601.67	3/4	965.84	3/4	1,330.02	3/4	1,694.20	3/4	2,058.37	3/4	2,422.55	3/4	2,786.72	3/4	3,150.90	3/4	3,515.08
10	263.79	10	609.26	10	973.43	10	1,337.61	10	1,701.78	10	2,065.96	10	2,430.14	10	2,794.31	10	3,158.49	10	3,522.66
1/4	270.79	1/4	616.85	1/4	981.02	1/4	1,345.20	1/4	1,709.37	1/4	2,073.55	1/4	2,437.73	1/4	2,801.90	1/4	3,166.08	1/4	3,530.25
1/2	277.80	1/2	624.43	1/2	988.60	1/2	1,352.79	1/2	1,716.96	1/2	2,081.14	1/2	2,445.31	1/2	2,809.49	1/2	3,173.67	1/2	3,537.84
3/4	284.80	3/4	632.02	3/4	996.19	3/4	1,360.37	3/4	1,724.54	3/4	2,088.72	3/4	2,452.90	3/4	2,817.07	3/4	3,181.25	3/4	3,545.42
11	291.80	11	639.60	11	1,003.78	11	1,367.96	11	1,732.13	11	2,096.31	11	2,460.48	11	2,824.66	11	3,188.84	11	3,553.01
1/4	298.80	1/4	647.19	1/4	1,011.37	1/4	1,375.55	1/4	1,739.72	1/4	2,103.90	1/4	2,468.07	1/4	2,832.25	1/4	3,196.43	1/4	3,560.60
1/2	305.80	1/2	654.78	1/2	1,018.96	1/2	1,383.13	1/2	1,747.31	1/2	2,111.49	1/2	2,475.66	1/2	2,839.84	1/2	3,204.01	1/2	3,568.19
3/4	312.80	3/4	662.36	3/4	1,026.54	3/4	1,390.72	3/4	1,754.89	3/4	2,119.07	3/4	2,483.24	3/4	2,847.42	3/4	3,211.60	3/4	3,575.77

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API 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 INNAGE GAUGES TAKEN AT 2" DIAMETER STANDPIPE.
 GAUGE POINT: (MANUAL) LOCATED 11'-00" OFF CENTERLINE AND 44'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
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BARGE "KIRBY 27702"

1 PORT INNAGE TABLE

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

FORMERLY "HW 2710"

GAUGE HEIGHT 16'-07 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,583.36	0	3,947.54	0	4,302.39	0	4,638.57	0		0		0		0		0		0	
1/4	3,590.95	1/4	3,955.08	1/4	4,309.54	1/4	4,645.33	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,598.54	1/2	3,962.62	1/2	4,316.69	1/2	4,652.09	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,606.12	3/4	3,970.15	3/4	4,323.84	3/4	4,658.85	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,613.71	1	3,977.69	1	4,330.99	1	4,665.61	1		1		1		1		1		1	
1/4	3,621.30	1/4	3,985.23	1/4	4,338.14	1/4	4,672.37	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,628.89	1/2	3,992.77	1/2	4,345.29	1/2	4,679.14	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,636.47	3/4	4,000.30	3/4	4,352.44	3/4	4,685.90	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,644.06	2	4,007.84	2	4,359.59	2	4,692.66	2		2		2		2		2		2	
1/4	3,651.65	1/4	4,015.38	1/4	4,366.74	1/4	4,699.42	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,659.23	1/2	4,022.92	1/2	4,373.89	1/2	4,706.18	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,666.82	3/4	4,030.45	3/4	4,381.04	3/4	4,712.94	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,674.40	3	4,037.99	3	4,388.19	3	4,719.70	3		3		3		3		3		3	
1/4	3,681.99	1/4	4,045.43	1/4	4,395.24	1/4	4,726.37	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,689.58	1/2	4,052.88	1/2	4,402.30	1/2	4,733.03	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,697.16	3/4	4,060.32	3/4	4,409.35	3/4	4,739.70	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,704.75	4	4,067.76	4	4,416.40	4	4,746.36	4		4		4		4		4		4	
1/4	3,712.34	1/4	4,075.20	1/4	4,423.45	1/4	4,753.02	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,719.93	1/2	4,082.65	1/2	4,430.50	1/2	4,759.69	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,727.51	3/4	4,090.09	3/4	4,437.55	3/4	4,766.35	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,735.10	5	4,097.53	5	4,444.60	5	4,773.01	5		5		5		5		5		5	
1/4	3,742.69	1/4	4,104.97	1/4	4,451.65	1/4	4,779.68	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,750.28	1/2	4,112.42	1/2	4,458.71	1/2	4,786.34	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,757.86	3/4	4,119.86	3/4	4,465.76	3/4	4,793.01	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,765.45	6	4,127.30	6	4,472.81	6	4,799.67	6		6		6		6		6		6	
1/4	3,773.04	1/4	4,134.64	1/4	4,479.77	1/4	4,806.43	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,780.63	1/2	4,141.99	1/2	4,486.72	1/2	4,813.19	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,788.21	3/4	4,149.33	3/4	4,493.68	3/4	4,819.94	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,795.80	7	4,156.67	7	4,500.63	7	4,826.70	7		7		7		7		7		7	
1/4	3,803.39	1/4	4,164.02	1/4	4,507.59	1/4	4,831.94	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,810.97	1/2	4,171.36	1/2	4,514.54	1/2	4,837.18	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,818.56	3/4	4,178.71	3/4	4,521.50	3/4	4,842.42	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,826.14	8	4,186.05	8	4,528.45	8	4,847.66	8		8		8		8		8		8	
1/4	3,833.73	1/4	4,193.39	1/4	4,535.41	1/4	4,851.38	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,841.32	1/2	4,200.74	1/2	4,542.36	1/2	4,855.11	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,848.90	3/4	4,208.08	3/4	4,549.32	3/4	4,858.83	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,856.49	9	4,215.42	9	4,556.27	9	4,862.55	9		9		9		9		9		9	
1/4	3,864.08	1/4	4,222.67	1/4	4,563.13	1/4	4,864.75	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,871.67	1/2	4,229.92	1/2	4,569.99	1/2	4,866.96	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,879.25	3/4	4,237.16	3/4	4,576.84	3/4	4,869.16	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,886.84	10	4,244.41	10	4,583.70	10	4,871.36	10		10		10		10		10		10	
1/4	3,894.43	1/4	4,251.66	1/4	4,590.56	1/4	4,872.05	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,902.02	1/2	4,258.91	1/2	4,597.42	1/2	4,872.74	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,909.60	3/4	4,266.15	3/4	4,604.28	3/4	4,873.42	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,917.19	11	4,273.40	11	4,611.14	11	4,874.11	11		11		11		11		11		11	
1/4	3,924.78	1/4	4,280.65	1/4	4,618.00	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,932.37	1/2	4,287.90	1/2	4,624.86	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,939.95	3/4	4,295.14	3/4	4,631.71	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/10/1999 INS
RECOMPUTED: 09/10/2019 SW
REPRINTED: 09/10/2019

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2019

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "KIRBY 27702"

1 STBD INNAGE TABLE

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

FORMERLY "HW 2710"

GAUGE HEIGHT 16'-07"

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	31.80	0	347.80	0	700.30	0	1,064.48	0	1,428.65	0	1,792.83	0	2,157.00	0	2,521.18	0	2,885.36	0	3,249.53
1/4	37.20	1/4	354.67	1/4	707.89	1/4	1,072.07	1/4	1,436.24	1/4	1,800.42	1/4	2,164.59	1/4	2,528.77	1/4	2,892.95	1/4	3,257.12
1/2	42.60	1/2	361.55	1/2	715.48	1/2	1,079.65	1/2	1,443.83	1/2	1,808.01	1/2	2,172.18	1/2	2,536.36	1/2	2,900.53	1/2	3,264.71
3/4	47.99	3/4	368.42	3/4	723.06	3/4	1,087.24	3/4	1,451.41	3/4	1,815.59	3/4	2,179.76	3/4	2,543.94	3/4	2,908.12	3/4	3,272.29
1	53.39	1	375.29	1	730.65	1	1,094.82	1	1,459.00	1	1,823.18	1	2,187.35	1	2,551.53	1	2,915.70	1	3,279.88
1/4	59.52	1/4	382.16	1/4	738.24	1/4	1,102.41	1/4	1,466.59	1/4	1,830.77	1/4	2,194.94	1/4	2,559.12	1/4	2,923.29	1/4	3,287.47
1/2	65.65	1/2	389.03	1/2	745.82	1/2	1,110.00	1/2	1,474.18	1/2	1,838.35	1/2	2,202.53	1/2	2,566.71	1/2	2,930.88	1/2	3,295.06
3/4	71.78	3/4	395.90	3/4	753.41	3/4	1,117.58	3/4	1,481.76	3/4	1,845.94	3/4	2,210.11	3/4	2,574.29	3/4	2,938.46	3/4	3,302.64
2	77.91	2	402.77	2	761.00	2	1,125.17	2	1,489.35	2	1,853.52	2	2,217.70	2	2,581.88	2	2,946.05	2	3,310.23
1/4	84.04	1/4	409.64	1/4	768.58	1/4	1,132.76	1/4	1,496.94	1/4	1,861.11	1/4	2,225.29	1/4	2,589.47	1/4	2,953.64	1/4	3,317.82
1/2	90.17	1/2	416.52	1/2	776.17	1/2	1,140.35	1/2	1,504.53	1/2	1,868.70	1/2	2,232.88	1/2	2,597.05	1/2	2,961.23	1/2	3,325.41
3/4	96.30	3/4	423.39	3/4	783.76	3/4	1,147.93	3/4	1,512.11	3/4	1,876.28	3/4	2,240.46	3/4	2,604.64	3/4	2,968.81	3/4	3,332.99
3	102.43	3	430.26	3	791.34	3	1,155.52	3	1,519.70	3	1,883.87	3	2,248.05	3	2,612.22	3	2,976.40	3	3,340.58
1/4	109.06	1/4	437.63	1/4	798.93	1/4	1,163.11	1/4	1,527.29	1/4	1,891.46	1/4	2,255.64	1/4	2,619.81	1/4	2,983.99	1/4	3,348.17
1/2	115.69	1/2	445.00	1/2	806.52	1/2	1,170.70	1/2	1,534.87	1/2	1,899.05	1/2	2,263.23	1/2	2,627.40	1/2	2,991.58	1/2	3,355.75
3/4	122.32	3/4	452.37	3/4	814.10	3/4	1,178.28	3/4	1,542.46	3/4	1,906.63	3/4	2,270.81	3/4	2,634.98	3/4	2,999.16	3/4	3,363.34
4	128.95	4	459.74	4	821.69	4	1,185.87	4	1,550.04	4	1,914.22	4	2,278.40	4	2,642.57	4	3,006.75	4	3,370.92
1/4	135.58	1/4	467.11	1/4	829.28	1/4	1,193.46	1/4	1,557.63	1/4	1,921.81	1/4	2,285.99	1/4	2,650.16	1/4	3,014.34	1/4	3,378.51
1/2	142.22	1/2	474.48	1/2	836.86	1/2	1,201.05	1/2	1,565.22	1/2	1,929.40	1/2	2,293.57	1/2	2,657.75	1/2	3,021.93	1/2	3,386.10
3/4	148.85	3/4	481.85	3/4	844.45	3/4	1,208.63	3/4	1,572.80	3/4	1,936.98	3/4	2,301.16	3/4	2,665.33	3/4	3,029.51	3/4	3,393.68
5	155.48	5	489.22	5	852.04	5	1,216.22	5	1,580.39	5	1,944.57	5	2,308.74	5	2,672.92	5	3,037.10	5	3,401.27
1/4	162.11	1/4	496.59	1/4	859.63	1/4	1,223.81	1/4	1,587.98	1/4	1,952.16	1/4	2,316.33	1/4	2,680.51	1/4	3,044.69	1/4	3,408.86
1/2	168.74	1/2	503.97	1/2	867.21	1/2	1,231.39	1/2	1,595.57	1/2	1,959.75	1/2	2,323.92	1/2	2,688.10	1/2	3,052.27	1/2	3,416.45
3/4	175.37	3/4	511.34	3/4	874.80	3/4	1,238.98	3/4	1,603.15	3/4	1,967.33	3/4	2,331.50	3/4	2,695.68	3/4	3,059.86	3/4	3,424.03
6	182.00	6	518.71	6	882.39	6	1,246.56	6	1,610.74	6	1,974.92	6	2,339.09	6	2,703.27	6	3,067.44	6	3,431.62
1/4	188.82	1/4	526.24	1/4	889.98	1/4	1,254.15	1/4	1,618.33	1/4	1,982.51	1/4	2,346.68	1/4	2,710.86	1/4	3,075.03	1/4	3,439.21
1/2	195.63	1/2	533.76	1/2	897.56	1/2	1,261.74	1/2	1,625.92	1/2	1,990.09	1/2	2,354.27	1/2	2,718.45	1/2	3,082.62	1/2	3,446.80
3/4	202.45	3/4	541.29	3/4	905.15	3/4	1,269.32	3/4	1,633.50	3/4	1,997.68	3/4	2,361.85	3/4	2,726.03	3/4	3,090.20	3/4	3,454.38
7	209.26	7	548.81	7	912.74	7	1,276.91	7	1,641.09	7	2,005.26	7	2,369.44	7	2,733.62	7	3,097.79	7	3,461.97
1/4	216.08	1/4	556.34	1/4	920.32	1/4	1,284.50	1/4	1,648.68	1/4	2,012.85	1/4	2,377.03	1/4	2,741.21	1/4	3,105.38	1/4	3,469.56
1/2	222.90	1/2	563.86	1/2	927.91	1/2	1,292.09	1/2	1,656.27	1/2	2,020.44	1/2	2,384.62	1/2	2,748.79	1/2	3,112.97	1/2	3,477.15
3/4	229.71	3/4	571.39	3/4	935.49	3/4	1,299.67	3/4	1,663.85	3/4	2,028.02	3/4	2,392.20	3/4	2,756.38	3/4	3,120.55	3/4	3,484.73
8	236.53	8	578.91	8	943.08	8	1,307.26	8	1,671.44	8	2,035.61	8	2,399.79	8	2,763.96	8	3,128.14	8	3,492.32
1/4	243.35	1/4	586.50	1/4	950.67	1/4	1,314.85	1/4	1,679.03	1/4	2,043.20	1/4	2,407.38	1/4	2,771.55	1/4	3,135.73	1/4	3,499.91
1/2	250.16	1/2	594.09	1/2	958.25	1/2	1,322.44	1/2	1,686.61	1/2	2,050.79	1/2	2,414.97	1/2	2,779.14	1/2	3,143.32	1/2	3,507.49
3/4	256.98	3/4	601.67	3/4	965.84	3/4	1,330.02	3/4	1,694.20	3/4	2,058.37	3/4	2,422.55	3/4	2,786.72	3/4	3,150.90	3/4	3,515.08
9	263.79	9	609.26	9	973.43	9	1,337.61	9	1,701.78	9	2,065.96	9	2,430.14	9	2,794.31	9	3,158.49	9	3,522.66
1/4	270.79	1/4	616.85	1/4	981.02	1/4	1,345.20	1/4	1,709.37	1/4	2,073.55	1/4	2,437.73	1/4	2,801.90	1/4	3,166.08	1/4	3,530.25
1/2	277.80	1/2	624.43	1/2	988.60	1/2	1,352.79	1/2	1,716.96	1/2	2,081.14	1/2	2,445.31	1/2	2,809.49	1/2	3,173.67	1/2	3,537.84
3/4	284.80	3/4	632.02	3/4	996.19	3/4	1,360.37	3/4	1,724.54	3/4	2,088.72	3/4	2,452.90	3/4	2,817.07	3/4	3,181.25	3/4	3,545.42
10	291.80	10	639.60	10	1,003.78	10	1,367.96	10	1,732.13	10	2,096.31	10	2,460.48	10	2,824.66	10	3,188.84	10	3,553.01
1/4	298.80	1/4	647.19	1/4	1,011.37	1/4	1,375.55	1/4	1,739.72	1/4	2,103.90	1/4	2,468.07	1/4	2,832.25	1/4	3,196.43	1/4	3,560.60
1/2	305.80	1/2	654.78	1/2	1,018.96	1/2	1,383.13	1/2	1,747.31	1/2	2,111.49	1/2	2,475.66	1/2	2,839.84	1/2	3,204.01	1/2	3,568.19
3/4	312.80	3/4	662.36	3/4	1,026.54	3/4	1,390.72	3/4	1,754.89	3/4	2,119.07	3/4	2,483.24	3/4	2,847.42	3/4	3,211.60	3/4	3,575.77
11	319.80	11	669.95	11	1,034.13	11	1,398.30	11	1,762.48	11	2,126.66	11	2,490.83	11	2,855.01	11	3,219.18	11	3,583.36
1/4	326.80	1/4	677.54	1/4	1,041.72	1/4	1,405.89	1/4	1,770.07	1/4	2,134.25	1/4	2,498.42	1/4	2,862.60	1/4	3,226.77	1/4	3,590.95
1/2	333.80	1/2	685.13	1/2	1,049.31	1/2	1,413.48	1/2	1,777.66	1/2	2,141.83	1/2	2,506.01	1/2	2,870.19	1/2	3,234.36	1/2	3,598.54
3/4	340.80	3/4	692.71	3/4	1,056.89	3/4	1,421.06	3/4	1,785.24	3/4	2,149.42	3/4	2,513.59	3/4	2,877.77	3/4	3,241.94	3/4	3,606.12

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API 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 INNAGE GAUGES TAKEN AT 2" DIAMETER STANDPIPE.
 GAUGE POINT: (MANUAL) LOCATED 11'-00" OFF CENTERLINE AND 44'-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 "KIRBY 27702"

**1 STBD
INNAGE TABLE**

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

FORMERLY "HW 2710"

GAUGE HEIGHT 16'-07"

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	3,613.71	0	3,977.69	0	4,330.99	0	4,665.61	0		0		0		0		0		0	
1/4	3,621.30	1/4	3,985.23	1/4	4,338.14	1/4	4,672.37	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,628.89	1/2	3,992.77	1/2	4,345.29	1/2	4,679.14	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,636.47	3/4	4,000.30	3/4	4,352.44	3/4	4,685.90	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,644.06	1	4,007.84	1	4,359.59	1	4,692.66	1		1		1		1		1		1	
1/4	3,651.65	1/4	4,015.38	1/4	4,366.74	1/4	4,699.42	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,659.23	1/2	4,022.92	1/2	4,373.89	1/2	4,706.18	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,666.82	3/4	4,030.45	3/4	4,381.04	3/4	4,712.94	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,674.40	2	4,037.99	2	4,388.19	2	4,719.70	2		2		2		2		2		2	
1/4	3,681.99	1/4	4,045.43	1/4	4,395.24	1/4	4,726.37	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,689.58	1/2	4,052.88	1/2	4,402.30	1/2	4,733.03	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,697.16	3/4	4,060.32	3/4	4,409.35	3/4	4,739.70	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,704.75	3	4,067.76	3	4,416.40	3	4,746.36	3		3		3		3		3		3	
1/4	3,712.34	1/4	4,075.20	1/4	4,423.45	1/4	4,753.02	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,719.93	1/2	4,082.65	1/2	4,430.50	1/2	4,759.69	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,727.51	3/4	4,090.09	3/4	4,437.55	3/4	4,766.35	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,735.10	4	4,097.53	4	4,444.60	4	4,773.01	4		4		4		4		4		4	
1/4	3,742.69	1/4	4,104.97	1/4	4,451.65	1/4	4,779.68	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,750.28	1/2	4,112.42	1/2	4,458.71	1/2	4,786.34	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,757.86	3/4	4,119.86	3/4	4,465.76	3/4	4,793.01	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,765.45	5	4,127.30	5	4,472.81	5	4,799.67	5		5		5		5		5		5	
1/4	3,773.04	1/4	4,134.64	1/4	4,479.77	1/4	4,806.43	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,780.63	1/2	4,141.99	1/2	4,486.72	1/2	4,813.19	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,788.21	3/4	4,149.33	3/4	4,493.68	3/4	4,819.94	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,795.80	6	4,156.67	6	4,500.63	6	4,826.70	6		6		6		6		6		6	
1/4	3,803.39	1/4	4,164.02	1/4	4,507.59	1/4	4,831.94	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,810.97	1/2	4,171.36	1/2	4,514.54	1/2	4,837.18	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,818.56	3/4	4,178.71	3/4	4,521.50	3/4	4,842.42	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,826.14	7	4,186.05	7	4,528.45	7	4,847.66	7		7		7		7		7		7	
1/4	3,833.73	1/4	4,193.39	1/4	4,535.41	1/4	4,851.38	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,841.32	1/2	4,200.74	1/2	4,542.36	1/2	4,855.11	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,848.90	3/4	4,208.08	3/4	4,549.32	3/4	4,858.83	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,856.49	8	4,215.42	8	4,556.27	8	4,862.55	8		8		8		8		8		8	
1/4	3,864.08	1/4	4,222.67	1/4	4,563.13	1/4	4,864.75	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,871.67	1/2	4,229.92	1/2	4,569.99	1/2	4,866.96	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,879.25	3/4	4,237.16	3/4	4,576.84	3/4	4,869.16	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,886.84	9	4,244.41	9	4,583.70	9	4,871.36	9		9		9		9		9		9	
1/4	3,894.43	1/4	4,251.66	1/4	4,590.56	1/4	4,872.05	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,902.02	1/2	4,258.91	1/2	4,597.42	1/2	4,872.74	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,909.60	3/4	4,266.15	3/4	4,604.28	3/4	4,873.42	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,917.19	10	4,273.40	10	4,611.14	10	4,874.11	10		10		10		10		10		10	
1/4	3,924.78	1/4	4,280.65	1/4	4,618.00	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,932.37	1/2	4,287.90	1/2	4,624.86	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,939.95	3/4	4,295.14	3/4	4,631.71	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,947.54	11	4,302.39	11	4,638.57	11		11		11		11		11		11		11	
1/4	3,955.08	1/4	4,309.54	1/4	4,645.33	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,962.62	1/2	4,316.69	1/2	4,652.09	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,970.15	3/4	4,323.84	3/4	4,658.85	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/10/1999 INS
RECOMPUTED: 09/10/2019 SW
REPRINTED: 09/10/2019 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2019

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "KIRBY 27702"

2 PORT INNAGE TABLE

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

FORMERLY "HW 2710"

GAUGE HEIGHT 16'-08"

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	15.70	0	360.12	0	719.69	0	1,083.05	0	1,446.41	0	1,809.77	0	2,173.13	0	2,536.49	0	2,899.85	0	3,263.21
1/4	20.43	1/4	367.69	1/4	727.26	1/4	1,090.62	1/4	1,453.98	1/4	1,817.34	1/4	2,180.70	1/4	2,544.06	1/4	2,907.42	1/4	3,270.78
1/2	25.16	1/2	375.26	1/2	734.83	1/2	1,098.19	1/2	1,461.55	1/2	1,824.91	1/2	2,188.27	1/2	2,551.63	1/2	2,914.99	1/2	3,278.35
3/4	29.89	3/4	382.83	3/4	742.40	3/4	1,105.76	3/4	1,469.12	3/4	1,832.48	3/4	2,195.84	3/4	2,559.20	3/4	2,922.56	3/4	3,285.92
1	34.62	1	390.40	1	749.97	1	1,113.33	1	1,476.69	1	1,840.05	1	2,203.41	1	2,566.77	1	2,930.13	1	3,293.49
1/4	40.93	1/4	397.66	1/4	757.55	1/4	1,120.90	1/4	1,484.26	1/4	1,847.62	1/4	2,210.98	1/4	2,574.34	1/4	2,937.70	1/4	3,301.06
1/2	47.24	1/2	404.91	1/2	765.13	1/2	1,128.47	1/2	1,491.83	1/2	1,855.19	1/2	2,218.55	1/2	2,581.91	1/2	2,945.27	1/2	3,308.63
3/4	53.54	3/4	412.17	3/4	772.70	3/4	1,136.04	3/4	1,499.40	3/4	1,862.76	3/4	2,226.12	3/4	2,589.48	3/4	2,952.84	3/4	3,316.20
2	59.85	2	419.42	2	780.28	2	1,143.61	2	1,506.97	2	1,870.33	2	2,233.69	2	2,597.05	2	2,960.41	2	3,323.77
1/4	67.10	1/4	426.67	1/4	787.84	1/4	1,151.18	1/4	1,514.54	1/4	1,877.90	1/4	2,241.26	1/4	2,604.62	1/4	2,967.98	1/4	3,331.34
1/2	74.36	1/2	433.93	1/2	795.41	1/2	1,158.75	1/2	1,522.11	1/2	1,885.47	1/2	2,248.83	1/2	2,612.19	1/2	2,975.55	1/2	3,338.91
3/4	81.61	3/4	441.18	3/4	802.97	3/4	1,166.32	3/4	1,529.68	3/4	1,893.04	3/4	2,256.40	3/4	2,619.76	3/4	2,983.12	3/4	3,346.48
3	88.86	3	448.43	3	810.53	3	1,173.89	3	1,537.25	3	1,900.61	3	2,263.97	3	2,627.33	3	2,990.69	3	3,354.05
1/4	96.12	1/4	455.69	1/4	818.10	1/4	1,181.46	1/4	1,544.82	1/4	1,908.18	1/4	2,271.54	1/4	2,634.90	1/4	2,998.26	1/4	3,361.62
1/2	103.37	1/2	462.94	1/2	825.67	1/2	1,189.03	1/2	1,552.39	1/2	1,915.75	1/2	2,279.11	1/2	2,642.47	1/2	3,005.83	1/2	3,369.19
3/4	110.63	3/4	470.20	3/4	833.24	3/4	1,196.60	3/4	1,559.96	3/4	1,923.32	3/4	2,286.68	3/4	2,650.04	3/4	3,013.40	3/4	3,376.76
4	117.88	4	477.45	4	840.81	4	1,204.17	4	1,567.53	4	1,930.89	4	2,294.25	4	2,657.61	4	3,020.97	4	3,384.33
1/4	125.45	1/4	485.02	1/4	848.38	1/4	1,211.74	1/4	1,575.10	1/4	1,938.46	1/4	2,301.82	1/4	2,665.18	1/4	3,028.54	1/4	3,391.90
1/2	133.02	1/2	492.59	1/2	855.95	1/2	1,219.31	1/2	1,582.67	1/2	1,946.03	1/2	2,309.39	1/2	2,672.75	1/2	3,036.11	1/2	3,399.47
3/4	140.59	3/4	500.16	3/4	863.52	3/4	1,226.88	3/4	1,590.24	3/4	1,953.60	3/4	2,316.96	3/4	2,680.32	3/4	3,043.68	3/4	3,407.04
5	148.16	5	507.73	5	871.09	5	1,234.45	5	1,597.81	5	1,961.17	5	2,324.53	5	2,687.89	5	3,051.25	5	3,414.61
1/4	155.73	1/4	515.30	1/4	878.66	1/4	1,242.02	1/4	1,605.38	1/4	1,968.74	1/4	2,332.10	1/4	2,695.46	1/4	3,058.82	1/4	3,422.18
1/2	163.30	1/2	522.87	1/2	886.23	1/2	1,249.59	1/2	1,612.95	1/2	1,976.31	1/2	2,339.67	1/2	2,703.03	1/2	3,066.39	1/2	3,429.75
3/4	170.87	3/4	530.44	3/4	893.80	3/4	1,257.16	3/4	1,620.52	3/4	1,983.88	3/4	2,347.24	3/4	2,710.60	3/4	3,073.96	3/4	3,437.32
6	178.44	6	538.01	6	901.37	6	1,264.73	6	1,628.09	6	1,991.45	6	2,354.81	6	2,718.17	6	3,081.53	6	3,444.89
1/4	186.01	1/4	545.58	1/4	908.94	1/4	1,272.30	1/4	1,635.66	1/4	1,999.02	1/4	2,362.38	1/4	2,725.74	1/4	3,089.10	1/4	3,452.46
1/2	193.58	1/2	553.15	1/2	916.51	1/2	1,279.87	1/2	1,643.23	1/2	2,006.59	1/2	2,369.95	1/2	2,733.31	1/2	3,096.67	1/2	3,460.03
3/4	201.15	3/4	560.72	3/4	924.08	3/4	1,287.44	3/4	1,650.80	3/4	2,014.16	3/4	2,377.52	3/4	2,740.88	3/4	3,104.24	3/4	3,467.60
7	208.72	7	568.29	7	931.65	7	1,295.01	7	1,658.37	7	2,021.73	7	2,385.09	7	2,748.45	7	3,111.81	7	3,475.17
1/4	216.29	1/4	575.86	1/4	939.22	1/4	1,302.58	1/4	1,665.94	1/4	2,029.30	1/4	2,392.66	1/4	2,756.02	1/4	3,119.38	1/4	3,482.74
1/2	223.86	1/2	583.43	1/2	946.79	1/2	1,310.15	1/2	1,673.51	1/2	2,036.87	1/2	2,400.23	1/2	2,763.59	1/2	3,126.95	1/2	3,490.31
3/4	231.43	3/4	591.00	3/4	954.36	3/4	1,317.72	3/4	1,681.08	3/4	2,044.44	3/4	2,407.80	3/4	2,771.16	3/4	3,134.52	3/4	3,497.88
8	239.00	8	598.57	8	961.93	8	1,325.29	8	1,688.65	8	2,052.01	8	2,415.37	8	2,778.73	8	3,142.09	8	3,505.45
1/4	246.57	1/4	606.14	1/4	969.50	1/4	1,332.86	1/4	1,696.22	1/4	2,059.58	1/4	2,422.94	1/4	2,786.30	1/4	3,149.66	1/4	3,513.02
1/2	254.14	1/2	613.71	1/2	977.07	1/2	1,340.43	1/2	1,703.79	1/2	2,067.15	1/2	2,430.51	1/2	2,793.87	1/2	3,157.23	1/2	3,520.59
3/4	261.71	3/4	621.28	3/4	984.64	3/4	1,348.00	3/4	1,711.36	3/4	2,074.72	3/4	2,438.08	3/4	2,801.44	3/4	3,164.80	3/4	3,528.16
9	269.28	9	628.85	9	992.21	9	1,355.57	9	1,718.93	9	2,082.29	9	2,445.65	9	2,809.01	9	3,172.37	9	3,535.73
1/4	276.85	1/4	636.42	1/4	999.78	1/4	1,363.14	1/4	1,726.50	1/4	2,089.86	1/4	2,453.22	1/4	2,816.58	1/4	3,179.94	1/4	3,543.30
1/2	284.42	1/2	643.99	1/2	1,007.35	1/2	1,370.71	1/2	1,734.07	1/2	2,097.43	1/2	2,460.79	1/2	2,824.15	1/2	3,187.51	1/2	3,550.87
3/4	291.99	3/4	651.56	3/4	1,014.92	3/4	1,378.28	3/4	1,741.64	3/4	2,105.00	3/4	2,468.36	3/4	2,831.72	3/4	3,195.08	3/4	3,558.44
10	299.56	10	659.13	10	1,022.49	10	1,385.85	10	1,749.21	10	2,112.57	10	2,475.93	10	2,839.29	10	3,202.65	10	3,566.01
1/4	307.13	1/4	666.70	1/4	1,030.06	1/4	1,393.42	1/4	1,756.78	1/4	2,120.14	1/4	2,483.50	1/4	2,846.86	1/4	3,210.22	1/4	3,573.58
1/2	314.70	1/2	674.27	1/2	1,037.63	1/2	1,400.99	1/2	1,764.35	1/2	2,127.71	1/2	2,491.07	1/2	2,854.43	1/2	3,217.79	1/2	3,581.15
3/4	322.27	3/4	681.84	3/4	1,045.20	3/4	1,408.56	3/4	1,771.92	3/4	2,135.28	3/4	2,498.64	3/4	2,862.00	3/4	3,225.36	3/4	3,588.72
11	329.84	11	689.41	11	1,052.77	11	1,416.13	11	1,779.49	11	2,142.85	11	2,506.21	11	2,869.57	11	3,232.93	11	3,596.29
1/4	337.41	1/4	696.98	1/4	1,060.34	1/4	1,423.70	1/4	1,787.06	1/4	2,150.42	1/4	2,513.78	1/4	2,877.14	1/4	3,240.50	1/4	3,603.86
1/2	344.98	1/2	704.55	1/2	1,067.91	1/2	1,431.27	1/2	1,794.63	1/2	2,157.99	1/2	2,521.35	1/2	2,884.71	1/2	3,248.07	1/2	3,611.43
3/4	352.55	3/4	712.12	3/4	1,075.48	3/4	1,438.84	3/4	1,802.20	3/4	2,165.56	3/4	2,528.92	3/4	2,892.28	3/4	3,255.64	3/4	3,619.00

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API 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 INNAGE GAUGES TAKEN AT 2" DIAMETER STANDPIPE.
 GAUGE POINT: (MANUAL) LOCATED 11'-00" OFF CENTERLINE AND 44'-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 "KIRBY 27702"

2 PORT INNAGE TABLE

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

FORMERLY "HW 2710"

GAUGE HEIGHT 16'-08"

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	3,626.57	0	3,989.93	0	4,343.94	0	4,679.30	0		0		0		0		0		0	
1/4	3,634.14	1/4	3,997.45	1/4	4,351.07	1/4	4,686.05	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,641.71	1/2	4,004.97	1/2	4,358.21	1/2	4,692.79	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,649.28	3/4	4,012.49	3/4	4,365.34	3/4	4,699.54	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,656.85	1	4,020.01	1	4,372.47	1	4,706.28	1		1		1		1		1		1	
1/4	3,664.42	1/4	4,027.53	1/4	4,379.60	1/4	4,713.02	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,671.99	1/2	4,035.06	1/2	4,386.74	1/2	4,719.77	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,679.56	3/4	4,042.58	3/4	4,393.87	3/4	4,726.51	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,687.13	2	4,050.10	2	4,401.00	2	4,733.25	2		2		2		2		2		2	
1/4	3,694.70	1/4	4,057.62	1/4	4,408.14	1/4	4,739.99	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,702.27	1/2	4,065.14	1/2	4,415.27	1/2	4,746.74	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,709.84	3/4	4,072.66	3/4	4,422.41	3/4	4,753.48	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,717.41	3	4,080.18	3	4,429.54	3	4,760.22	3		3		3		3		3		3	
1/4	3,724.98	1/4	4,087.61	1/4	4,436.58	1/4	4,766.87	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,732.55	1/2	4,095.03	1/2	4,443.61	1/2	4,773.52	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,740.12	3/4	4,102.46	3/4	4,450.65	3/4	4,780.16	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,747.69	4	4,109.88	4	4,457.68	4	4,786.81	4		4		4		4		4		4	
1/4	3,755.26	1/4	4,117.30	1/4	4,464.72	1/4	4,793.46	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,762.83	1/2	4,124.73	1/2	4,471.75	1/2	4,800.11	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,770.40	3/4	4,132.15	3/4	4,478.79	3/4	4,806.75	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,777.97	5	4,139.57	5	4,485.82	5	4,813.40	5		5		5		5		5		5	
1/4	3,785.54	1/4	4,147.00	1/4	4,492.86	1/4	4,820.05	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,793.11	1/2	4,154.42	1/2	4,499.89	1/2	4,826.69	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,800.68	3/4	4,161.85	3/4	4,506.93	3/4	4,833.34	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,808.25	6	4,169.27	6	4,513.96	6	4,839.98	6		6		6		6		6		6	
1/4	3,815.82	1/4	4,176.60	1/4	4,520.90	1/4	4,846.72	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,823.39	1/2	4,183.93	1/2	4,527.84	1/2	4,853.47	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,830.96	3/4	4,191.25	3/4	4,534.77	3/4	4,860.21	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,838.53	7	4,198.58	7	4,541.71	7	4,866.95	7		7		7		7		7		7	
1/4	3,846.10	1/4	4,205.91	1/4	4,548.65	1/4	4,872.18	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,853.67	1/2	4,213.23	1/2	4,555.59	1/2	4,877.41	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,861.24	3/4	4,220.56	3/4	4,562.52	3/4	4,882.63	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,868.81	8	4,227.88	8	4,569.46	8	4,887.86	8		8		8		8		8		8	
1/4	3,876.38	1/4	4,235.21	1/4	4,576.40	1/4	4,891.58	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,883.95	1/2	4,242.54	1/2	4,583.34	1/2	4,895.29	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,891.52	3/4	4,249.86	3/4	4,590.27	3/4	4,899.01	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,899.09	9	4,257.19	9	4,597.21	9	4,902.72	9		9		9		9		9		9	
1/4	3,906.66	1/4	4,264.42	1/4	4,604.05	1/4	4,904.92	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,914.23	1/2	4,271.65	1/2	4,610.90	1/2	4,907.12	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,921.80	3/4	4,278.88	3/4	4,617.74	3/4	4,909.31	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,929.37	10	4,286.11	10	4,624.58	10	4,911.51	10		10		10		10		10		10	
1/4	3,936.94	1/4	4,293.34	1/4	4,631.42	1/4	4,912.20	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,944.51	1/2	4,300.57	1/2	4,638.26	1/2	4,912.88	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,952.08	3/4	4,307.79	3/4	4,645.10	3/4	4,913.57	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,959.65	11	4,315.02	11	4,651.94	11	4,914.25	11		11		11		11		11		11	
1/4	3,967.22	1/4	4,322.25	1/4	4,658.78	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,974.79	1/2	4,329.48	1/2	4,665.62	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,982.36	3/4	4,336.71	3/4	4,672.46	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/10/1999 INS
RECOMPUTED: 09/10/2019 SW
REPRINTED: 09/10/2019 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2019

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



BARGE "KIRBY 27702"

2 STBD INNAGE TABLE

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

FORMERLY "HW 2710"

GAUGE HEIGHT 16'-08 1/4"

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	15.70	0	360.12	0	719.69	0	1,083.05	0	1,446.41	0	1,809.77	0	2,173.13	0	2,536.49	0	2,899.85	0	3,263.21
1/4	20.43	1/4	367.69	1/4	727.26	1/4	1,090.62	1/4	1,453.98	1/4	1,817.34	1/4	2,180.70	1/4	2,544.06	1/4	2,907.42	1/4	3,270.78
1/2	25.16	1/2	375.26	1/2	734.83	1/2	1,098.19	1/2	1,461.55	1/2	1,824.91	1/2	2,188.27	1/2	2,551.63	1/2	2,914.99	1/2	3,278.35
3/4	29.89	3/4	382.83	3/4	742.40	3/4	1,105.76	3/4	1,469.12	3/4	1,832.48	3/4	2,195.84	3/4	2,559.20	3/4	2,922.56	3/4	3,285.92
1	34.62	1	390.40	1	749.97	1	1,113.33	1	1,476.69	1	1,840.05	1	2,203.41	1	2,566.77	1	2,930.13	1	3,293.49
1/4	40.93	1/4	397.66	1/4	757.55	1/4	1,120.90	1/4	1,484.26	1/4	1,847.62	1/4	2,210.98	1/4	2,574.34	1/4	2,937.70	1/4	3,301.06
1/2	47.24	1/2	404.91	1/2	765.13	1/2	1,128.47	1/2	1,491.83	1/2	1,855.19	1/2	2,218.55	1/2	2,581.91	1/2	2,945.27	1/2	3,308.63
3/4	53.54	3/4	412.17	3/4	772.70	3/4	1,136.04	3/4	1,499.40	3/4	1,862.76	3/4	2,226.12	3/4	2,589.48	3/4	2,952.84	3/4	3,316.20
2	59.85	2	419.42	2	780.28	2	1,143.61	2	1,506.97	2	1,870.33	2	2,233.69	2	2,597.05	2	2,960.41	2	3,323.77
1/4	67.10	1/4	426.67	1/4	787.84	1/4	1,151.18	1/4	1,514.54	1/4	1,877.90	1/4	2,241.26	1/4	2,604.62	1/4	2,967.98	1/4	3,331.34
1/2	74.36	1/2	433.93	1/2	795.41	1/2	1,158.75	1/2	1,522.11	1/2	1,885.47	1/2	2,248.83	1/2	2,612.19	1/2	2,975.55	1/2	3,338.91
3/4	81.61	3/4	441.18	3/4	802.97	3/4	1,166.32	3/4	1,529.68	3/4	1,893.04	3/4	2,256.40	3/4	2,619.76	3/4	2,983.12	3/4	3,346.48
3	88.86	3	448.43	3	810.53	3	1,173.89	3	1,537.25	3	1,900.61	3	2,263.97	3	2,627.33	3	2,990.69	3	3,354.05
1/4	96.12	1/4	455.69	1/4	818.10	1/4	1,181.46	1/4	1,544.82	1/4	1,908.18	1/4	2,271.54	1/4	2,634.90	1/4	2,998.26	1/4	3,361.62
1/2	103.37	1/2	462.94	1/2	825.67	1/2	1,189.03	1/2	1,552.39	1/2	1,915.75	1/2	2,279.11	1/2	2,642.47	1/2	3,005.83	1/2	3,369.19
3/4	110.63	3/4	470.20	3/4	833.24	3/4	1,196.60	3/4	1,559.96	3/4	1,923.32	3/4	2,286.68	3/4	2,650.04	3/4	3,013.40	3/4	3,376.76
4	117.88	4	477.45	4	840.81	4	1,204.17	4	1,567.53	4	1,930.89	4	2,294.25	4	2,657.61	4	3,020.97	4	3,384.33
1/4	125.45	1/4	485.02	1/4	848.38	1/4	1,211.74	1/4	1,575.10	1/4	1,938.46	1/4	2,301.82	1/4	2,665.18	1/4	3,028.54	1/4	3,391.90
1/2	133.02	1/2	492.59	1/2	855.95	1/2	1,219.31	1/2	1,582.67	1/2	1,946.03	1/2	2,309.39	1/2	2,672.75	1/2	3,036.11	1/2	3,399.47
3/4	140.59	3/4	500.16	3/4	863.52	3/4	1,226.88	3/4	1,590.24	3/4	1,953.60	3/4	2,316.96	3/4	2,680.32	3/4	3,043.68	3/4	3,407.04
5	148.16	5	507.73	5	871.09	5	1,234.45	5	1,597.81	5	1,961.17	5	2,324.53	5	2,687.89	5	3,051.25	5	3,414.61
1/4	155.73	1/4	515.30	1/4	878.66	1/4	1,242.02	1/4	1,605.38	1/4	1,968.74	1/4	2,332.10	1/4	2,695.46	1/4	3,058.82	1/4	3,422.18
1/2	163.30	1/2	522.87	1/2	886.23	1/2	1,249.59	1/2	1,612.95	1/2	1,976.31	1/2	2,339.67	1/2	2,703.03	1/2	3,066.39	1/2	3,429.75
3/4	170.87	3/4	530.44	3/4	893.80	3/4	1,257.16	3/4	1,620.52	3/4	1,983.88	3/4	2,347.24	3/4	2,710.60	3/4	3,073.96	3/4	3,437.32
6	178.44	6	538.01	6	901.37	6	1,264.73	6	1,628.09	6	1,991.45	6	2,354.81	6	2,718.17	6	3,081.53	6	3,444.89
1/4	186.01	1/4	545.58	1/4	908.94	1/4	1,272.30	1/4	1,635.66	1/4	1,999.02	1/4	2,362.38	1/4	2,725.74	1/4	3,089.10	1/4	3,452.46
1/2	193.58	1/2	553.15	1/2	916.51	1/2	1,279.87	1/2	1,643.23	1/2	2,006.59	1/2	2,369.95	1/2	2,733.31	1/2	3,096.67	1/2	3,460.03
3/4	201.15	3/4	560.72	3/4	924.08	3/4	1,287.44	3/4	1,650.80	3/4	2,014.16	3/4	2,377.52	3/4	2,740.88	3/4	3,104.24	3/4	3,467.60
7	208.72	7	568.29	7	931.65	7	1,295.01	7	1,658.37	7	2,021.73	7	2,385.09	7	2,748.45	7	3,111.81	7	3,475.17
1/4	216.29	1/4	575.86	1/4	939.22	1/4	1,302.58	1/4	1,665.94	1/4	2,029.30	1/4	2,392.66	1/4	2,756.02	1/4	3,119.38	1/4	3,482.74
1/2	223.86	1/2	583.43	1/2	946.79	1/2	1,310.15	1/2	1,673.51	1/2	2,036.87	1/2	2,400.23	1/2	2,763.59	1/2	3,126.95	1/2	3,490.31
3/4	231.43	3/4	591.00	3/4	954.36	3/4	1,317.72	3/4	1,681.08	3/4	2,044.44	3/4	2,407.80	3/4	2,771.16	3/4	3,134.52	3/4	3,497.88
8	239.00	8	598.57	8	961.93	8	1,325.29	8	1,688.65	8	2,052.01	8	2,415.37	8	2,778.73	8	3,142.09	8	3,505.45
1/4	246.57	1/4	606.14	1/4	969.50	1/4	1,332.86	1/4	1,696.22	1/4	2,059.58	1/4	2,422.94	1/4	2,786.30	1/4	3,149.66	1/4	3,513.02
1/2	254.14	1/2	613.71	1/2	977.07	1/2	1,340.43	1/2	1,703.79	1/2	2,067.15	1/2	2,430.51	1/2	2,793.87	1/2	3,157.23	1/2	3,520.59
3/4	261.71	3/4	621.28	3/4	984.64	3/4	1,348.00	3/4	1,711.36	3/4	2,074.72	3/4	2,438.08	3/4	2,801.44	3/4	3,164.80	3/4	3,528.16
9	269.28	9	628.85	9	992.21	9	1,355.57	9	1,718.93	9	2,082.29	9	2,445.65	9	2,809.01	9	3,172.37	9	3,535.73
1/4	276.85	1/4	636.42	1/4	999.78	1/4	1,363.14	1/4	1,726.50	1/4	2,089.86	1/4	2,453.22	1/4	2,816.58	1/4	3,179.94	1/4	3,543.30
1/2	284.42	1/2	643.99	1/2	1,007.35	1/2	1,370.71	1/2	1,734.07	1/2	2,097.43	1/2	2,460.79	1/2	2,824.15	1/2	3,187.51	1/2	3,550.87
3/4	291.99	3/4	651.56	3/4	1,014.92	3/4	1,378.28	3/4	1,741.64	3/4	2,105.00	3/4	2,468.36	3/4	2,831.72	3/4	3,195.08	3/4	3,558.44
10	299.56	10	659.13	10	1,022.49	10	1,385.85	10	1,749.21	10	2,112.57	10	2,475.93	10	2,839.29	10	3,202.65	10	3,566.01
1/4	307.13	1/4	666.70	1/4	1,030.06	1/4	1,393.42	1/4	1,756.78	1/4	2,120.14	1/4	2,483.50	1/4	2,846.86	1/4	3,210.22	1/4	3,573.58
1/2	314.70	1/2	674.27	1/2	1,037.63	1/2	1,400.99	1/2	1,764.35	1/2	2,127.71	1/2	2,491.07	1/2	2,854.43	1/2	3,217.79	1/2	3,581.15
3/4	322.27	3/4	681.84	3/4	1,045.20	3/4	1,408.56	3/4	1,771.92	3/4	2,135.28	3/4	2,498.64	3/4	2,862.00	3/4	3,225.36	3/4	3,588.72
11	329.84	11	689.41	11	1,052.77	11	1,416.13	11	1,779.49	11	2,142.85	11	2,506.21	11	2,869.57	11	3,232.93	11	3,596.29
1/4	337.41	1/4	696.98	1/4	1,060.34	1/4	1,423.70	1/4	1,787.06	1/4	2,150.42	1/4	2,513.78	1/4	2,877.14	1/4	3,240.50	1/4	3,603.86
1/2	344.98	1/2	704.55	1/2	1,067.91	1/2	1,431.27	1/2	1,794.63	1/2	2,157.99	1/2	2,521.35	1/2	2,884.71	1/2	3,248.07	1/2	3,611.43
3/4	352.55	3/4	712.12	3/4	1,075.48	3/4	1,438.84	3/4	1,802.20	3/4	2,165.56	3/4	2,528.92	3/4	2,892.28	3/4	3,255.64	3/4	3,619.00

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API 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 INNAGE GAUGES TAKEN AT 2" DIAMETER STANDPIPE.
 GAUGE POINT: (MANUAL) LOCATED 11'-00" OFF CENTERLINE AND 44'-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 "KIRBY 27702"

2 STBD INNAGE TABLE

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

FORMERLY "HW 2710"

GAUGE HEIGHT 16'-08 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,626.57	0	3,989.93	0	4,343.94	0	4,679.30	0		0		0		0		0		0	
1/4	3,634.14	1/4	3,997.45	1/4	4,351.07	1/4	4,686.05	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,641.71	1/2	4,004.97	1/2	4,358.21	1/2	4,692.79	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,649.28	3/4	4,012.49	3/4	4,365.34	3/4	4,699.54	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,656.85	1	4,020.01	1	4,372.47	1	4,706.28	1		1		1		1		1		1	
1/4	3,664.42	1/4	4,027.53	1/4	4,379.60	1/4	4,713.02	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,671.99	1/2	4,035.06	1/2	4,386.74	1/2	4,719.77	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,679.56	3/4	4,042.58	3/4	4,393.87	3/4	4,726.51	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,687.13	2	4,050.10	2	4,401.00	2	4,733.25	2		2		2		2		2		2	
1/4	3,694.70	1/4	4,057.62	1/4	4,408.14	1/4	4,739.99	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,702.27	1/2	4,065.14	1/2	4,415.27	1/2	4,746.74	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,709.84	3/4	4,072.66	3/4	4,422.41	3/4	4,753.48	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,717.41	3	4,080.18	3	4,429.54	3	4,760.22	3		3		3		3		3		3	
1/4	3,724.98	1/4	4,087.61	1/4	4,436.58	1/4	4,766.87	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,732.55	1/2	4,095.03	1/2	4,443.61	1/2	4,773.52	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,740.12	3/4	4,102.46	3/4	4,450.65	3/4	4,780.16	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,747.69	4	4,109.88	4	4,457.68	4	4,786.81	4		4		4		4		4		4	
1/4	3,755.26	1/4	4,117.30	1/4	4,464.72	1/4	4,793.46	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,762.83	1/2	4,124.73	1/2	4,471.75	1/2	4,800.11	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,770.40	3/4	4,132.15	3/4	4,478.79	3/4	4,806.75	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,777.97	5	4,139.57	5	4,485.82	5	4,813.40	5		5		5		5		5		5	
1/4	3,785.54	1/4	4,147.00	1/4	4,492.86	1/4	4,820.05	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,793.11	1/2	4,154.42	1/2	4,499.89	1/2	4,826.69	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,800.68	3/4	4,161.85	3/4	4,506.93	3/4	4,833.34	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,808.25	6	4,169.27	6	4,513.96	6	4,839.98	6		6		6		6		6		6	
1/4	3,815.82	1/4	4,176.60	1/4	4,520.90	1/4	4,846.72	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,823.39	1/2	4,183.93	1/2	4,527.84	1/2	4,853.47	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,830.96	3/4	4,191.25	3/4	4,534.77	3/4	4,860.21	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,838.53	7	4,198.58	7	4,541.71	7	4,866.95	7		7		7		7		7		7	
1/4	3,846.10	1/4	4,205.91	1/4	4,548.65	1/4	4,872.18	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,853.67	1/2	4,213.23	1/2	4,555.59	1/2	4,877.41	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,861.24	3/4	4,220.56	3/4	4,562.52	3/4	4,882.63	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,868.81	8	4,227.88	8	4,569.46	8	4,887.86	8		8		8		8		8		8	
1/4	3,876.38	1/4	4,235.21	1/4	4,576.40	1/4	4,891.58	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,883.95	1/2	4,242.54	1/2	4,583.34	1/2	4,895.29	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,891.52	3/4	4,249.86	3/4	4,590.27	3/4	4,899.01	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,899.09	9	4,257.19	9	4,597.21	9	4,902.72	9		9		9		9		9		9	
1/4	3,906.66	1/4	4,264.42	1/4	4,604.05	1/4	4,904.92	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,914.23	1/2	4,271.65	1/2	4,610.90	1/2	4,907.12	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,921.80	3/4	4,278.88	3/4	4,617.74	3/4	4,909.31	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,929.37	10	4,286.11	10	4,624.58	10	4,911.51	10		10		10		10		10		10	
1/4	3,936.94	1/4	4,293.34	1/4	4,631.42	1/4	4,912.20	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,944.51	1/2	4,300.57	1/2	4,638.26	1/2	4,912.88	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,952.08	3/4	4,307.79	3/4	4,645.10	3/4	4,913.57	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,959.65	11	4,315.02	11	4,651.94	11	4,914.25	11		11		11		11		11		11	
1/4	3,967.22	1/4	4,322.25	1/4	4,658.78	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,974.79	1/2	4,329.48	1/2	4,665.62	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,982.36	3/4	4,336.71	3/4	4,672.46	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/10/1999 INS
RECOMPUTED: 09/10/2019 SW
REPRINTED: 09/10/2019 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2019

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "KIRBY 27702"

3 PORT INNAGE TABLE

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

FORMERLY "HW 2710"

GAUGE HEIGHT 16'-05"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	41.12	0	399.51	0	761.06	0	1,126.10	0	1,491.14	0	1,856.18	0	2,221.22	0	2,586.26	0	2,951.30	0	3,314.93
1/4	47.70	1/4	406.80	1/4	768.67	1/4	1,133.71	1/4	1,498.75	1/4	1,863.79	1/4	2,228.83	1/4	2,593.87	1/4	2,958.91	1/4	3,321.48
1/2	54.27	1/2	414.09	1/2	776.27	1/2	1,141.31	1/2	1,506.35	1/2	1,871.39	1/2	2,236.43	1/2	2,601.47	1/2	2,966.51	1/2	3,328.03
3/4	60.85	3/4	421.37	3/4	783.88	3/4	1,148.92	3/4	1,513.96	3/4	1,879.00	3/4	2,244.04	3/4	2,609.08	3/4	2,974.12	3/4	3,334.57
1	67.42	1	428.66	1	791.48	1	1,156.52	1	1,521.56	1	1,886.60	1	2,251.64	1	2,616.68	1	2,981.72	1	3,341.12
1/4	74.71	1/4	435.95	1/4	799.09	1/4	1,164.13	1/4	1,529.17	1/4	1,894.21	1/4	2,259.25	1/4	2,624.29	1/4	2,989.33	1/4	3,346.96
1/2	82.00	1/2	443.24	1/2	806.69	1/2	1,171.73	1/2	1,536.77	1/2	1,901.81	1/2	2,266.85	1/2	2,631.89	1/2	2,996.93	1/2	3,352.81
3/4	89.29	3/4	450.52	3/4	814.30	3/4	1,179.34	3/4	1,544.38	3/4	1,909.42	3/4	2,274.46	3/4	2,639.50	3/4	3,004.54	3/4	3,358.65
2	96.58	2	457.81	2	821.90	2	1,186.94	2	1,551.98	2	1,917.02	2	2,282.06	2	2,647.10	2	3,012.14	2	3,364.49
1/4	103.95	1/4	465.18	1/4	829.51	1/4	1,194.55	1/4	1,559.59	1/4	1,924.63	1/4	2,289.67	1/4	2,654.71	1/4	3,019.75	1/4	3,369.63
1/2	111.32	1/2	472.55	1/2	837.11	1/2	1,202.15	1/2	1,567.19	1/2	1,932.23	1/2	2,297.27	1/2	2,662.31	1/2	3,027.35	1/2	3,374.76
3/4	118.68	3/4	479.91	3/4	844.72	3/4	1,209.76	3/4	1,574.80	3/4	1,939.84	3/4	2,304.88	3/4	2,669.92	3/4	3,034.96	3/4	3,379.90
3	126.05	3	487.28	3	852.32	3	1,217.36	3	1,582.40	3	1,947.44	3	2,312.48	3	2,677.52	3	3,042.56	3	3,385.03
1/4	133.66	1/4	494.89	1/4	859.93	1/4	1,224.97	1/4	1,590.01	1/4	1,955.05	1/4	2,320.09	1/4	2,685.13	1/4	3,050.17	1/4	3,389.46
1/2	141.26	1/2	502.49	1/2	867.53	1/2	1,232.57	1/2	1,597.61	1/2	1,962.65	1/2	2,327.69	1/2	2,692.73	1/2	3,057.77	1/2	3,393.90
3/4	148.87	3/4	510.10	3/4	875.14	3/4	1,240.18	3/4	1,605.22	3/4	1,970.26	3/4	2,335.30	3/4	2,700.34	3/4	3,065.38	3/4	3,398.33
4	156.47	4	517.70	4	882.74	4	1,247.78	4	1,612.82	4	1,977.86	4	2,342.90	4	2,707.94	4	3,072.98	4	3,402.76
1/4	164.08	1/4	525.31	1/4	890.35	1/4	1,255.39	1/4	1,620.43	1/4	1,985.47	1/4	2,350.51	1/4	2,715.55	1/4	3,080.59	1/4	3,406.84
1/2	171.68	1/2	532.91	1/2	897.95	1/2	1,262.99	1/2	1,628.03	1/2	1,993.07	1/2	2,358.11	1/2	2,723.15	1/2	3,088.19	1/2	3,410.92
3/4	179.29	3/4	540.52	3/4	905.56	3/4	1,270.60	3/4	1,635.64	3/4	2,000.68	3/4	2,365.72	3/4	2,730.76	3/4	3,095.80	3/4	3,414.99
5	186.89	5	548.12	5	913.16	5	1,278.20	5	1,643.24	5	2,008.28	5	2,373.32	5	2,738.36	5	3,103.40	5	3,419.07
1/4	194.50	1/4	555.73	1/4	920.77	1/4	1,285.81	1/4	1,650.85	1/4	2,015.89	1/4	2,380.93	1/4	2,745.97	1/4	3,111.01	1/4	3,423.15
1/2	202.10	1/2	563.33	1/2	928.37	1/2	1,293.41	1/2	1,658.45	1/2	2,023.49	1/2	2,388.53	1/2	2,753.57	1/2	3,118.61	1/2	3,427.23
3/4	209.71	3/4	570.94	3/4	935.98	3/4	1,301.02	3/4	1,666.06	3/4	2,031.10	3/4	2,396.14	3/4	2,761.18	3/4	3,126.22	3/4	3,431.31
6	217.31	6	578.54	6	943.58	6	1,308.62	6	1,673.66	6	2,038.70	6	2,403.74	6	2,768.78	6	3,133.82	6	3,435.39
1/4	224.92	1/4	586.15	1/4	951.19	1/4	1,316.23	1/4	1,681.27	1/4	2,046.31	1/4	2,411.35	1/4	2,776.39	1/4	3,141.43	1/4	3,439.47
1/2	232.52	1/2	593.75	1/2	958.79	1/2	1,323.83	1/2	1,688.87	1/2	2,053.91	1/2	2,418.95	1/2	2,783.99	1/2	3,149.03	1/2	3,443.55
3/4	240.13	3/4	601.36	3/4	966.40	3/4	1,331.44	3/4	1,696.48	3/4	2,061.52	3/4	2,426.56	3/4	2,791.60	3/4	3,156.64	3/4	3,447.63
7	247.73	7	608.96	7	974.00	7	1,339.04	7	1,704.08	7	2,069.12	7	2,434.16	7	2,799.20	7	3,164.24	7	3,451.71
1/4	255.34	1/4	616.57	1/4	981.61	1/4	1,346.65	1/4	1,711.69	1/4	2,076.73	1/4	2,441.77	1/4	2,806.81	1/4	3,171.85	1/4	3,455.79
1/2	262.94	1/2	624.17	1/2	989.21	1/2	1,354.25	1/2	1,719.29	1/2	2,084.33	1/2	2,449.37	1/2	2,814.41	1/2	3,179.45	1/2	3,459.87
3/4	270.55	3/4	631.78	3/4	996.82	3/4	1,361.86	3/4	1,726.90	3/4	2,091.94	3/4	2,456.98	3/4	2,822.02	3/4	3,187.06	3/4	3,463.94
8	278.15	8	639.38	8	1,004.42	8	1,369.46	8	1,734.50	8	2,099.54	8	2,464.58	8	2,829.62	8	3,194.66	8	3,468.02
1/4	285.76	1/4	646.99	1/4	1,012.03	1/4	1,377.07	1/4	1,742.11	1/4	2,107.15	1/4	2,472.19	1/4	2,837.23	1/4	3,202.27	1/4	3,472.10
1/2	293.36	1/2	654.59	1/2	1,019.63	1/2	1,384.67	1/2	1,749.71	1/2	2,114.75	1/2	2,479.79	1/2	2,844.83	1/2	3,209.87	1/2	3,476.18
3/4	300.97	3/4	662.20	3/4	1,027.24	3/4	1,392.28	3/4	1,757.32	3/4	2,122.36	3/4	2,487.40	3/4	2,852.44	3/4	3,217.48	3/4	3,480.26
9	308.57	9	669.80	9	1,034.84	9	1,399.88	9	1,764.92	9	2,129.96	9	2,495.00	9	2,860.04	9	3,225.08	9	3,484.34
1/4	316.18	1/4	677.41	1/4	1,042.45	1/4	1,407.49	1/4	1,772.53	1/4	2,137.57	1/4	2,502.61	1/4	2,867.65	1/4	3,232.69	1/4	3,488.42
1/2	323.78	1/2	685.01	1/2	1,050.05	1/2	1,415.09	1/2	1,780.13	1/2	2,145.17	1/2	2,510.21	1/2	2,875.25	1/2	3,240.29	1/2	3,492.50
3/4	331.39	3/4	692.62	3/4	1,057.66	3/4	1,422.70	3/4	1,787.74	3/4	2,152.78	3/4	2,517.82	3/4	2,882.86	3/4	3,247.90	3/4	3,496.57
10	338.99	10	700.22	10	1,065.26	10	1,430.30	10	1,795.34	10	2,160.38	10	2,525.42	10	2,890.46	10	3,255.50	10	3,500.65
1/4	346.60	1/4	707.83	1/4	1,072.87	1/4	1,437.91	1/4	1,802.95	1/4	2,167.99	1/4	2,533.03	1/4	2,898.07	1/4	3,263.11	1/4	3,504.73
1/2	354.20	1/2	715.43	1/2	1,080.47	1/2	1,445.51	1/2	1,810.55	1/2	2,175.59	1/2	2,540.63	1/2	2,905.67	1/2	3,270.71	1/2	3,508.81
3/4	361.81	3/4	723.04	3/4	1,088.08	3/4	1,453.12	3/4	1,818.16	3/4	2,183.20	3/4	2,548.24	3/4	2,913.28	3/4	3,278.32	3/4	3,512.89
11	369.41	11	730.64	11	1,095.68	11	1,460.72	11	1,825.76	11	2,190.80	11	2,555.84	11	2,920.88	11	3,285.92	11	3,516.97
1/4	376.94	1/4	738.25	1/4	1,103.29	1/4	1,468.33	1/4	1,833.37	1/4	2,198.41	1/4	2,563.45	1/4	2,928.49	1/4	3,293.17	1/4	3,521.05
1/2	384.46	1/2	745.85	1/2	1,110.89	1/2	1,475.93	1/2	1,840.97	1/2	2,206.01	1/2	2,571.05	1/2	2,936.09	1/2	3,300.43	1/2	3,525.13
3/4	391.99	3/4	753.46	3/4	1,118.50	3/4	1,483.54	3/4	1,848.58	3/4	2,213.62	3/4	2,578.66	3/4	2,943.70	3/4	3,307.68	3/4	3,529.21

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API 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 INNAGE GAUGES TAKEN AT 2" DIAMETER STANDPIPE.
 GAUGE POINT: (MANUAL) LOCATED 11'-00" OFF CENTERLINE AND 42'-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 "KIRBY 27702"

3 PORT INNAGE TABLE

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

FORMERLY "HW 2710"

GAUGE HEIGHT 16'-05"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,533.29	0	3,728.79	0	3,917.25	0	4,095.68	0		0		0		0		0		0	
1/4	3,537.37	1/4	3,732.81	1/4	3,921.05	1/4	4,099.28	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,541.45	1/2	3,736.82	1/2	3,924.86	1/2	4,102.87	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,545.52	3/4	3,740.84	3/4	3,928.66	3/4	4,106.47	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,549.60	1	3,744.85	1	3,932.46	1	4,110.06	1		1		1		1		1		1	
1/4	3,553.68	1/4	3,748.85	1/4	3,936.25	1/4	4,113.64	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,557.76	1/2	3,752.85	1/2	3,940.05	1/2	4,117.23	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,561.84	3/4	3,756.85	3/4	3,943.84	3/4	4,120.81	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,565.92	2	3,760.85	2	3,947.63	2	4,124.39	2		2		2		2		2		2	
1/4	3,570.00	1/4	3,764.85	1/4	3,951.42	1/4	4,127.97	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,574.08	1/2	3,768.86	1/2	3,955.21	1/2	4,131.55	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,578.15	3/4	3,772.86	3/4	3,959.00	3/4	4,135.13	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,582.23	3	3,776.86	3	3,962.79	3	4,138.71	3		3		3		3		3		3	
1/4	3,586.31	1/4	3,780.82	1/4	3,966.54	1/4	4,142.31	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,590.39	1/2	3,784.78	1/2	3,970.30	1/2	4,145.91	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,594.47	3/4	3,788.74	3/4	3,974.05	3/4	4,149.50	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,598.55	4	3,792.70	4	3,977.80	4	4,153.10	4		4		4		4		4		4	
1/4	3,602.63	1/4	3,796.65	1/4	3,981.54	1/4	4,156.09	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,606.71	1/2	3,800.60	1/2	3,985.28	1/2	4,159.08	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,610.79	3/4	3,804.54	3/4	3,989.01	3/4	4,162.06	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,614.87	5	3,808.49	5	3,992.75	5	4,165.05	5		5		5		5		5		5	
1/4	3,618.95	1/4	3,812.44	1/4	3,996.49	1/4	4,167.22	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,623.03	1/2	3,816.39	1/2	4,000.23	1/2	4,169.39	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,627.10	3/4	3,820.33	3/4	4,003.97	3/4	4,171.56	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,631.18	6	3,824.28	6	4,007.71	6	4,173.73	6		6		6		6		6		6	
1/4	3,635.26	1/4	3,828.19	1/4	4,011.41	1/4	4,175.09	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,639.34	1/2	3,832.10	1/2	4,015.11	1/2	4,176.44	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,643.42	3/4	3,836.01	3/4	4,018.81	3/4	4,177.80	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,647.50	7	3,839.92	7	4,022.51	7	4,179.15	7		7		7		7		7		7	
1/4	3,651.58	1/4	3,843.82	1/4	4,026.20	1/4	4,179.69	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,655.66	1/2	3,847.71	1/2	4,029.89	1/2	4,180.23	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,659.73	3/4	3,851.61	3/4	4,033.57	3/4	4,180.77	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,663.81	8	3,855.50	8	4,037.26	8	4,181.31	8		8		8		8		8		8	
1/4	3,667.89	1/4	3,859.40	1/4	4,040.95	1/4	4,181.64	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,671.97	1/2	3,863.29	1/2	4,044.64	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,676.05	3/4	3,867.19	3/4	4,048.32	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	3,680.13	9	3,871.08	9	4,052.01	9		9		9		9		9		9		9	
1/4	3,684.19	1/4	3,874.94	1/4	4,055.66	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,688.25	1/2	3,878.79	1/2	4,059.31	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,692.31	3/4	3,882.65	3/4	4,062.95	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	3,696.37	10	3,886.50	10	4,066.60	10		10		10		10		10		10		10	
1/4	3,700.42	1/4	3,890.34	1/4	4,070.24	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,704.48	1/2	3,894.19	1/2	4,073.87	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,708.53	3/4	3,898.03	3/4	4,077.51	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,712.58	11	3,901.87	11	4,081.14	11		11		11		11		11		11		11	
1/4	3,716.63	1/4	3,905.72	1/4	4,084.78	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,720.69	1/2	3,909.56	1/2	4,088.41	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,724.74	3/4	3,913.41	3/4	4,092.05	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/10/1999 INS
RECOMPUTED: 09/10/2019 SW
REPRINTED: 09/10/2019 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2019

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "KIRBY 27702"

3 STBD INNAGE TABLE

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

FORMERLY "HW 2710"

GAUGE HEIGHT 16'-04 1/2"

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	47.46	0	406.80	0	768.66	0	1,133.70	0	1,498.74	0	1,863.78	0	2,228.82	0	2,593.86	0	2,958.90	0	3,321.48
1/4	54.11	1/4	414.08	1/4	776.27	1/4	1,141.31	1/4	1,506.35	1/4	1,871.39	1/4	2,236.43	1/4	2,601.47	1/4	2,966.51	1/4	3,328.02
1/2	60.77	1/2	421.37	1/2	783.87	1/2	1,148.91	1/2	1,513.95	1/2	1,878.99	1/2	2,244.03	1/2	2,609.07	1/2	2,974.11	1/2	3,334.57
3/4	67.42	3/4	428.66	3/4	791.48	3/4	1,156.52	3/4	1,521.56	3/4	1,886.60	3/4	2,251.64	3/4	2,616.68	3/4	2,981.72	3/4	3,341.12
1	74.71	1	435.95	1	799.08	1	1,164.12	1	1,529.16	1	1,894.20	1	2,259.24	1	2,624.28	1	2,989.32	1	3,346.96
1/4	82.00	1/4	443.23	1/4	806.69	1/4	1,171.73	1/4	1,536.77	1/4	1,901.81	1/4	2,266.85	1/4	2,631.89	1/4	2,996.93	1/4	3,352.80
1/2	89.29	1/2	450.52	1/2	814.29	1/2	1,179.33	1/2	1,544.37	1/2	1,909.41	1/2	2,274.45	1/2	2,639.49	1/2	3,004.53	1/2	3,358.65
3/4	96.58	3/4	457.81	3/4	821.90	3/4	1,186.94	3/4	1,551.98	3/4	1,917.02	3/4	2,282.06	3/4	2,647.10	3/4	3,012.14	3/4	3,364.49
2	103.95	2	465.18	2	829.50	2	1,194.54	2	1,559.58	2	1,924.62	2	2,289.66	2	2,654.70	2	3,019.74	2	3,369.62
1/4	111.31	1/4	472.54	1/4	837.11	1/4	1,202.15	1/4	1,567.19	1/4	1,932.23	1/4	2,297.27	1/4	2,662.31	1/4	3,027.35	1/4	3,374.76
1/2	118.68	1/2	479.91	1/2	844.71	1/2	1,209.75	1/2	1,574.79	1/2	1,939.83	1/2	2,304.87	1/2	2,669.91	1/2	3,034.95	1/2	3,379.89
3/4	126.05	3/4	487.28	3/4	852.32	3/4	1,217.36	3/4	1,582.40	3/4	1,947.44	3/4	2,312.48	3/4	2,677.52	3/4	3,042.56	3/4	3,385.03
3	133.65	3	494.88	3	859.92	3	1,224.96	3	1,590.00	3	1,955.04	3	2,320.08	3	2,685.12	3	3,050.16	3	3,389.46
1/4	141.26	1/4	502.49	1/4	867.53	1/4	1,232.57	1/4	1,597.61	1/4	1,962.65	1/4	2,327.69	1/4	2,692.73	1/4	3,057.77	1/4	3,393.89
1/2	148.86	1/2	510.09	1/2	875.13	1/2	1,240.17	1/2	1,605.21	1/2	1,970.25	1/2	2,335.29	1/2	2,700.33	1/2	3,065.37	1/2	3,398.33
3/4	156.47	3/4	517.70	3/4	882.74	3/4	1,247.78	3/4	1,612.82	3/4	1,977.86	3/4	2,342.90	3/4	2,707.94	3/4	3,072.98	3/4	3,402.76
4	164.07	4	525.30	4	890.34	4	1,255.38	4	1,620.42	4	1,985.46	4	2,350.50	4	2,715.54	4	3,080.58	4	3,406.84
1/4	171.68	1/4	532.91	1/4	897.95	1/4	1,262.99	1/4	1,628.03	1/4	1,993.07	1/4	2,358.11	1/4	2,723.15	1/4	3,088.19	1/4	3,410.91
1/2	179.28	1/2	540.51	1/2	905.55	1/2	1,270.59	1/2	1,635.63	1/2	2,000.67	1/2	2,365.71	1/2	2,730.75	1/2	3,095.79	1/2	3,414.99
3/4	186.89	3/4	548.12	3/4	913.16	3/4	1,278.20	3/4	1,643.24	3/4	2,008.28	3/4	2,373.32	3/4	2,738.36	3/4	3,103.40	3/4	3,419.07
5	194.49	5	555.72	5	920.76	5	1,285.80	5	1,650.84	5	2,015.88	5	2,380.92	5	2,745.96	5	3,111.00	5	3,423.15
1/4	202.10	1/4	563.33	1/4	928.37	1/4	1,293.41	1/4	1,658.45	1/4	2,023.49	1/4	2,388.53	1/4	2,753.57	1/4	3,118.61	1/4	3,427.23
1/2	209.70	1/2	570.93	1/2	935.97	1/2	1,301.01	1/2	1,666.05	1/2	2,031.09	1/2	2,396.13	1/2	2,761.17	1/2	3,126.21	1/2	3,431.31
3/4	217.31	3/4	578.54	3/4	943.58	3/4	1,308.62	3/4	1,673.66	3/4	2,038.70	3/4	2,403.74	3/4	2,768.78	3/4	3,133.82	3/4	3,435.39
6	224.91	6	586.14	6	951.18	6	1,316.22	6	1,681.26	6	2,046.30	6	2,411.34	6	2,776.38	6	3,141.42	6	3,439.47
1/4	232.52	1/4	593.75	1/4	958.79	1/4	1,323.83	1/4	1,688.87	1/4	2,053.91	1/4	2,418.95	1/4	2,783.99	1/4	3,149.03	1/4	3,443.55
1/2	240.12	1/2	601.35	1/2	966.39	1/2	1,331.43	1/2	1,696.47	1/2	2,061.51	1/2	2,426.55	1/2	2,791.59	1/2	3,156.63	1/2	3,447.63
3/4	247.73	3/4	608.96	3/4	974.00	3/4	1,339.04	3/4	1,704.08	3/4	2,069.12	3/4	2,434.16	3/4	2,799.20	3/4	3,164.24	3/4	3,451.71
7	255.33	7	616.56	7	981.60	7	1,346.64	7	1,711.68	7	2,076.72	7	2,441.76	7	2,806.80	7	3,171.84	7	3,455.79
1/4	262.94	1/4	624.17	1/4	989.21	1/4	1,354.25	1/4	1,719.29	1/4	2,084.33	1/4	2,449.37	1/4	2,814.41	1/4	3,179.45	1/4	3,459.86
1/2	270.54	1/2	631.77	1/2	996.81	1/2	1,361.85	1/2	1,726.89	1/2	2,091.93	1/2	2,456.97	1/2	2,822.01	1/2	3,187.05	1/2	3,463.94
3/4	278.15	3/4	639.38	3/4	1,004.42	3/4	1,369.46	3/4	1,734.50	3/4	2,099.54	3/4	2,464.58	3/4	2,829.62	3/4	3,194.66	3/4	3,468.02
8	285.75	8	646.98	8	1,012.02	8	1,377.06	8	1,742.10	8	2,107.14	8	2,472.18	8	2,837.22	8	3,202.26	8	3,472.10
1/4	293.36	1/4	654.59	1/4	1,019.63	1/4	1,384.67	1/4	1,749.71	1/4	2,114.75	1/4	2,479.79	1/4	2,844.83	1/4	3,209.87	1/4	3,476.18
1/2	300.96	1/2	662.19	1/2	1,027.23	1/2	1,392.27	1/2	1,757.31	1/2	2,122.35	1/2	2,487.39	1/2	2,852.43	1/2	3,217.47	1/2	3,480.26
3/4	308.57	3/4	669.80	3/4	1,034.84	3/4	1,399.88	3/4	1,764.92	3/4	2,129.96	3/4	2,495.00	3/4	2,860.04	3/4	3,225.08	3/4	3,484.34
9	316.17	9	677.40	9	1,042.44	9	1,407.48	9	1,772.52	9	2,137.56	9	2,502.60	9	2,867.64	9	3,232.68	9	3,488.42
1/4	323.78	1/4	685.01	1/4	1,050.05	1/4	1,415.09	1/4	1,780.13	1/4	2,145.17	1/4	2,510.21	1/4	2,875.25	1/4	3,240.29	1/4	3,492.49
1/2	331.38	1/2	692.61	1/2	1,057.65	1/2	1,422.69	1/2	1,787.73	1/2	2,152.77	1/2	2,517.81	1/2	2,882.85	1/2	3,247.89	1/2	3,496.57
3/4	338.99	3/4	700.22	3/4	1,065.26	3/4	1,430.30	3/4	1,795.34	3/4	2,160.38	3/4	2,525.42	3/4	2,890.46	3/4	3,255.50	3/4	3,500.65
10	346.59	10	707.82	10	1,072.86	10	1,437.90	10	1,802.94	10	2,167.98	10	2,533.02	10	2,898.06	10	3,263.10	10	3,504.73
1/4	354.20	1/4	715.43	1/4	1,080.47	1/4	1,445.51	1/4	1,810.55	1/4	2,175.59	1/4	2,540.63	1/4	2,905.67	1/4	3,270.71	1/4	3,508.81
1/2	361.80	1/2	723.03	1/2	1,088.07	1/2	1,453.11	1/2	1,818.15	1/2	2,183.19	1/2	2,548.23	1/2	2,913.27	1/2	3,278.31	1/2	3,512.89
3/4	369.41	3/4	730.64	3/4	1,095.68	3/4	1,460.72	3/4	1,825.76	3/4	2,190.80	3/4	2,555.84	3/4	2,920.88	3/4	3,285.92	3/4	3,516.97
11	376.93	11	738.24	11	1,103.28	11	1,468.32	11	1,833.36	11	2,198.40	11	2,563.44	11	2,928.48	11	3,293.17	11	3,521.05
1/4	384.46	1/4	745.85	1/4	1,110.89	1/4	1,475.93	1/4	1,840.97	1/4	2,206.01	1/4	2,571.05	1/4	2,936.09	1/4	3,300.42	1/4	3,525.13
1/2	391.98	1/2	753.45	1/2	1,118.49	1/2	1,483.53	1/2	1,848.57	1/2	2,213.61	1/2	2,578.65	1/2	2,943.69	1/2	3,307.68	1/2	3,529.21
3/4	399.51	3/4	761.06	3/4	1,126.10	3/4	1,491.14	3/4	1,856.18	3/4	2,221.22	3/4	2,586.26	3/4	2,951.30	3/4	3,314.93	3/4	3,533.29

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API 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 INNAGE GAUGES TAKEN AT 2" DIAMETER STANDPIPE.
GAUGE POINT: (MANUAL) LOCATED 11'-00" OFF CENTERLINE AND 42'-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 "KIRBY 27702"

3 STBD INNAGE TABLE

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

FORMERLY "HW 2710"

GAUGE HEIGHT 16'-04 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,537.37	0	3,732.80	0	3,921.05	0	4,099.27	0		0		0		0		0		0	
1/4	3,541.44	1/4	3,736.82	1/4	3,924.85	1/4	4,102.87	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,545.52	1/2	3,740.83	1/2	3,928.66	1/2	4,106.46	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,549.60	3/4	3,744.85	3/4	3,932.46	3/4	4,110.06	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,553.68	1	3,748.85	1	3,936.25	1	4,113.64	1		1		1		1		1		1	
1/4	3,557.76	1/4	3,752.85	1/4	3,940.04	1/4	4,117.22	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,561.84	1/2	3,756.85	1/2	3,943.84	1/2	4,120.81	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,565.92	3/4	3,760.85	3/4	3,947.63	3/4	4,124.39	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,570.00	2	3,764.85	2	3,951.42	2	4,127.97	2		2		2		2		2		2	
1/4	3,574.07	1/4	3,768.85	1/4	3,955.21	1/4	4,131.55	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,578.15	1/2	3,772.86	1/2	3,959.00	1/2	4,135.13	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,582.23	3/4	3,776.86	3/4	3,962.79	3/4	4,138.71	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,586.31	3	3,780.82	3	3,966.54	3	4,142.31	3		3		3		3		3		3	
1/4	3,590.39	1/4	3,784.78	1/4	3,970.29	1/4	4,145.90	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,594.47	1/2	3,788.74	1/2	3,974.05	1/2	4,149.50	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,598.55	3/4	3,792.70	3/4	3,977.80	3/4	4,153.10	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,602.63	4	3,796.65	4	3,981.54	4	4,156.09	4		4		4		4		4		4	
1/4	3,606.71	1/4	3,800.59	1/4	3,985.27	1/4	4,159.07	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,610.79	1/2	3,804.54	1/2	3,989.01	1/2	4,162.06	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,614.87	3/4	3,808.49	3/4	3,992.75	3/4	4,165.05	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,618.95	5	3,812.44	5	3,996.49	5	4,167.22	5		5		5		5		5		5	
1/4	3,623.02	1/4	3,816.38	1/4	4,000.23	1/4	4,169.39	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,627.10	1/2	3,820.33	1/2	4,003.97	1/2	4,171.56	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,631.18	3/4	3,824.28	3/4	4,007.71	3/4	4,173.73	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,635.26	6	3,828.19	6	4,011.41	6	4,175.08	6		6		6		6		6		6	
1/4	3,639.34	1/4	3,832.10	1/4	4,015.11	1/4	4,176.44	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,643.42	1/2	3,836.01	1/2	4,018.81	1/2	4,177.79	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,647.50	3/4	3,839.92	3/4	4,022.51	3/4	4,179.15	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,651.58	7	3,843.81	7	4,026.20	7	4,179.69	7		7		7		7		7		7	
1/4	3,655.65	1/4	3,847.71	1/4	4,029.88	1/4	4,180.23	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,659.73	1/2	3,851.60	1/2	4,033.57	1/2	4,180.77	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,663.81	3/4	3,855.50	3/4	4,037.26	3/4	4,181.31	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,667.89	8	3,859.39	8	4,040.95	8	4,181.64	8		8		8		8		8		8	
1/4	3,671.97	1/4	3,863.29	1/4	4,044.63	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,676.05	1/2	3,867.18	1/2	4,048.32	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,680.13	3/4	3,871.08	3/4	4,052.01	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	3,684.19	9	3,874.93	9	4,055.66	9		9		9		9		9		9		9	
1/4	3,688.25	1/4	3,878.79	1/4	4,059.30	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,692.31	1/2	3,882.64	1/2	4,062.95	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,696.37	3/4	3,886.50	3/4	4,066.60	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	3,700.42	10	3,890.34	10	4,070.23	10		10		10		10		10		10		10	
1/4	3,704.47	1/4	3,894.18	1/4	4,073.87	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,708.53	1/2	3,898.03	1/2	4,077.50	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,712.58	3/4	3,901.87	3/4	4,081.14	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,716.63	11	3,905.71	11	4,084.77	11		11		11		11		11		11		11	
1/4	3,720.68	1/4	3,909.56	1/4	4,088.41	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,724.74	1/2	3,913.40	1/2	4,092.04	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,728.79	3/4	3,917.25	3/4	4,095.68	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/10/1999 INS
RECOMPUTED: 09/10/2019 SW
REPRINTED: 09/10/2019 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2019

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