



BARGE "HBC 304"

INNAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	00-0/8	- 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
1 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
2 PORT	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-1/4
2 STBD	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-1/4
3 PORT	- 00-5/8	00-5/8	- 01-1/8	01-1/8	- 01-3/4	01-3/4	- 02-1/4	02-1/4	- 02-7/8	02-7/8	- 03-3/8	03-3/8
3 STBD	- 00-1/2	00-1/2	- 01-1/8	01-1/8	- 01-5/8	01-5/8	- 02-1/4	02-1/4	- 02-3/4	02-3/4	- 03-3/8	03-3/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 1 PORT IS - 00-1/8"
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED INNAGE IS 3'-11 7/8"

LENGTH BETWEEN DRAFT MARKS: 253'-09"

April 25, 2013

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HBC 304"

1 PORT

INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-07 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	22.97	0	362.87	0	725.65	0	1,088.19	0	1,450.74	0	1,813.54	0	2,176.33	0	2,539.12	0	2,901.82	0	3,264.49
1/4	27.38	1/4	370.43	1/4	733.21	1/4	1,095.74	1/4	1,458.30	1/4	1,821.10	1/4	2,183.89	1/4	2,546.68	1/4	2,909.38	1/4	3,272.04
1/2	31.79	1/2	377.99	1/2	740.77	1/2	1,103.29	1/2	1,465.86	1/2	1,828.65	1/2	2,191.45	1/2	2,554.24	1/2	2,916.93	1/2	3,279.60
3/4	36.20	3/4	385.55	3/4	748.33	3/4	1,110.83	3/4	1,473.42	3/4	1,836.21	3/4	2,199.01	3/4	2,561.80	3/4	2,924.49	3/4	3,287.15
1	40.60	1	393.11	1	755.88	1	1,118.38	1	1,480.98	1	1,843.77	1	2,206.56	1	2,569.36	1	2,932.04	1	3,294.71
1/4	46.27	1/4	400.66	1/4	763.44	1/4	1,125.92	1/4	1,488.53	1/4	1,851.33	1/4	2,214.12	1/4	2,576.92	1/4	2,939.60	1/4	3,302.26
1/2	51.94	1/2	408.22	1/2	771.00	1/2	1,133.47	1/2	1,496.09	1/2	1,858.89	1/2	2,221.68	1/2	2,584.47	1/2	2,947.15	1/2	3,309.82
3/4	57.61	3/4	415.78	3/4	778.56	3/4	1,141.02	3/4	1,503.65	3/4	1,866.44	3/4	2,229.24	3/4	2,592.03	3/4	2,954.71	3/4	3,317.37
2	63.27	2	423.34	2	786.12	2	1,148.56	2	1,511.21	2	1,874.00	2	2,236.80	2	2,599.59	2	2,962.27	2	3,324.93
1/4	70.20	1/4	430.90	1/4	793.67	1/4	1,156.11	1/4	1,518.77	1/4	1,881.56	1/4	2,244.35	1/4	2,607.15	1/4	2,969.82	1/4	3,332.48
1/2	77.13	1/2	438.45	1/2	801.23	1/2	1,163.65	1/2	1,526.33	1/2	1,889.12	1/2	2,251.91	1/2	2,614.71	1/2	2,977.38	1/2	3,340.04
3/4	84.05	3/4	446.01	3/4	808.79	3/4	1,171.20	3/4	1,533.88	3/4	1,896.68	3/4	2,259.47	3/4	2,622.26	3/4	2,984.93	3/4	3,347.60
3	90.98	3	453.57	3	816.35	3	1,178.75	3	1,541.44	3	1,904.24	3	2,267.03	3	2,629.82	3	2,992.49	3	3,355.15
1/4	98.50	1/4	461.13	1/4	823.91	1/4	1,186.29	1/4	1,549.00	1/4	1,911.79	1/4	2,274.59	1/4	2,637.38	1/4	3,000.04	1/4	3,362.71
1/2	106.02	1/2	468.68	1/2	831.46	1/2	1,193.84	1/2	1,556.56	1/2	1,919.35	1/2	2,282.15	1/2	2,644.93	1/2	3,007.60	1/2	3,370.26
3/4	113.55	3/4	476.24	3/4	839.02	3/4	1,201.38	3/4	1,564.12	3/4	1,926.91	3/4	2,289.70	3/4	2,652.49	3/4	3,015.15	3/4	3,377.82
4	121.07	4	483.80	4	846.58	4	1,208.93	4	1,571.68	4	1,934.47	4	2,297.26	4	2,660.05	4	3,022.71	4	3,385.37
1/4	128.61	1/4	491.36	1/4	854.14	1/4	1,216.48	1/4	1,579.23	1/4	1,942.03	1/4	2,304.82	1/4	2,667.60	1/4	3,030.26	1/4	3,392.93
1/2	136.16	1/2	498.92	1/2	861.70	1/2	1,224.02	1/2	1,586.79	1/2	1,949.59	1/2	2,312.38	1/2	2,675.16	1/2	3,037.82	1/2	3,400.48
3/4	143.71	3/4	506.47	3/4	869.25	3/4	1,231.57	3/4	1,594.35	3/4	1,957.14	3/4	2,319.94	3/4	2,682.71	3/4	3,045.38	3/4	3,408.04
5	151.26	5	514.03	5	876.81	5	1,239.11	5	1,601.91	5	1,964.70	5	2,327.50	5	2,690.27	5	3,052.93	5	3,415.60
1/4	158.81	1/4	521.59	1/4	884.37	1/4	1,246.67	1/4	1,609.47	1/4	1,972.26	1/4	2,335.05	1/4	2,697.82	1/4	3,060.49	1/4	3,423.15
1/2	166.37	1/2	529.15	1/2	891.93	1/2	1,254.23	1/2	1,617.02	1/2	1,979.82	1/2	2,342.61	1/2	2,705.38	1/2	3,068.04	1/2	3,430.71
3/4	173.93	3/4	536.71	3/4	899.48	3/4	1,261.79	3/4	1,624.58	3/4	1,987.38	3/4	2,350.17	3/4	2,712.93	3/4	3,075.60	3/4	3,438.26
6	181.48	6	544.26	6	907.04	6	1,269.35	6	1,632.14	6	1,994.93	6	2,357.73	6	2,720.49	6	3,083.15	6	3,445.82
1/4	189.04	1/4	551.82	1/4	914.60	1/4	1,276.91	1/4	1,639.70	1/4	2,002.49	1/4	2,365.29	1/4	2,728.04	1/4	3,090.71	1/4	3,453.37
1/2	196.60	1/2	559.38	1/2	922.16	1/2	1,284.46	1/2	1,647.26	1/2	2,010.05	1/2	2,372.84	1/2	2,735.60	1/2	3,098.26	1/2	3,460.93
3/4	204.16	3/4	566.94	3/4	929.72	3/4	1,292.02	3/4	1,654.82	3/4	2,017.61	3/4	2,380.40	3/4	2,743.16	3/4	3,105.82	3/4	3,468.48
7	211.72	7	574.50	7	937.27	7	1,299.58	7	1,662.37	7	2,025.17	7	2,387.96	7	2,750.71	7	3,113.38	7	3,476.04
1/4	219.27	1/4	582.05	1/4	944.82	1/4	1,307.14	1/4	1,669.93	1/4	2,032.73	1/4	2,395.52	1/4	2,758.27	1/4	3,120.93	1/4	3,483.59
1/2	226.83	1/2	589.61	1/2	952.37	1/2	1,314.70	1/2	1,677.49	1/2	2,040.28	1/2	2,403.08	1/2	2,765.82	1/2	3,128.49	1/2	3,491.15
3/4	234.39	3/4	597.17	3/4	959.91	3/4	1,322.25	3/4	1,685.05	3/4	2,047.84	3/4	2,410.64	3/4	2,773.38	3/4	3,136.04	3/4	3,498.71
8	241.95	8	604.73	8	967.46	8	1,329.81	8	1,692.61	8	2,055.40	8	2,418.19	8	2,780.93	8	3,143.60	8	3,506.26
1/4	249.51	1/4	612.28	1/4	975.00	1/4	1,337.37	1/4	1,700.16	1/4	2,062.96	1/4	2,425.75	1/4	2,788.49	1/4	3,151.15	1/4	3,513.82
1/2	257.06	1/2	619.84	1/2	982.55	1/2	1,344.93	1/2	1,707.72	1/2	2,070.52	1/2	2,433.31	1/2	2,796.04	1/2	3,158.71	1/2	3,521.37
3/4	264.62	3/4	627.40	3/4	990.10	3/4	1,352.49	3/4	1,715.28	3/4	2,078.07	3/4	2,440.87	3/4	2,803.60	3/4	3,166.26	3/4	3,528.93
9	272.18	9	634.96	9	997.64	9	1,360.05	9	1,722.84	9	2,085.63	9	2,448.43	9	2,811.16	9	3,173.82	9	3,536.48
1/4	279.74	1/4	642.52	1/4	1,005.19	1/4	1,367.60	1/4	1,730.40	1/4	2,093.19	1/4	2,455.98	1/4	2,818.71	1/4	3,181.37	1/4	3,544.04
1/2	287.29	1/2	650.07	1/2	1,012.73	1/2	1,375.16	1/2	1,737.96	1/2	2,100.75	1/2	2,463.54	1/2	2,826.27	1/2	3,188.93	1/2	3,551.59
3/4	294.85	3/4	657.63	3/4	1,020.28	3/4	1,382.72	3/4	1,745.51	3/4	2,108.31	3/4	2,471.10	3/4	2,833.82	3/4	3,196.49	3/4	3,559.15
10	302.41	10	665.19	10	1,027.83	10	1,390.28	10	1,753.07	10	2,115.87	10	2,478.66	10	2,841.38	10	3,204.04	10	3,566.71
1/4	309.97	1/4	672.75	1/4	1,035.37	1/4	1,397.84	1/4	1,760.63	1/4	2,123.42	1/4	2,486.22	1/4	2,848.93	1/4	3,211.60	1/4	3,574.26
1/2	317.53	1/2	680.31	1/2	1,042.92	1/2	1,405.39	1/2	1,768.19	1/2	2,130.98	1/2	2,493.78	1/2	2,856.49	1/2	3,219.15	1/2	3,581.82
3/4	325.08	3/4	687.86	3/4	1,050.46	3/4	1,412.95	3/4	1,775.75	3/4	2,138.54	3/4	2,501.33	3/4	2,864.04	3/4	3,226.71	3/4	3,589.37
11	332.64	11	695.42	11	1,058.01	11	1,420.51	11	1,783.30	11	2,146.10	11	2,508.89	11	2,871.60	11	3,234.26	11	3,596.93
1/4	340.20	1/4	702.98	1/4	1,065.56	1/4	1,428.07	1/4	1,790.86	1/4	2,153.66	1/4	2,516.45	1/4	2,879.15	1/4	3,241.82	1/4	3,604.48
1/2	347.76	1/2	710.54	1/2	1,073.10	1/2	1,435.63	1/2	1,798.42	1/2	2,161.21	1/2	2,524.01	1/2	2,886.71	1/2	3,249.37	1/2	3,612.04
3/4	355.32	3/4	718.10	3/4	1,080.65	3/4	1,443.19	3/4	1,805.98	3/4	2,168.77	3/4	2,531.57	3/4	2,894.27	3/4	3,256.93	3/4	3,619.59

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" HERMETIC CLOSED GAUGING VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-06" 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 "HBC 304"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-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	3,627.15	0	3,989.81	0	4,352.48	0	4,710.30	0	5,049.92	0		0		0		0		0	
1/4	3,634.70	1/4	3,997.37	1/4	4,360.03	1/4	4,717.57	1/4	5,056.73	1/4		1/4		1/4		1/4		1/4	
1/2	3,642.26	1/2	4,004.92	1/2	4,367.59	1/2	4,724.84	1/2	5,063.55	1/2		1/2		1/2		1/2		1/2	
3/4	3,649.82	3/4	4,012.48	3/4	4,375.14	3/4	4,732.11	3/4	5,070.36	3/4		3/4		3/4		3/4		3/4	
1	3,657.37	1	4,020.04	1	4,382.70	1	4,739.38	1	5,077.18	1		1		1		1		1	
1/4	3,664.93	1/4	4,027.59	1/4	4,390.25	1/4	4,746.60	1/4	5,083.96	1/4		1/4		1/4		1/4		1/4	
1/2	3,672.48	1/2	4,035.15	1/2	4,397.81	1/2	4,753.81	1/2	5,090.75	1/2		1/2		1/2		1/2		1/2	
3/4	3,680.04	3/4	4,042.70	3/4	4,405.37	3/4	4,761.02	3/4	5,097.53	3/4		3/4		3/4		3/4		3/4	
2	3,687.59	2	4,050.26	2	4,412.92	2	4,768.23	2	5,104.32	2		2		2		2		2	
1/4	3,695.15	1/4	4,057.81	1/4	4,420.48	1/4	4,775.42	1/4	5,111.07	1/4		1/4		1/4		1/4		1/4	
1/2	3,702.70	1/2	4,065.37	1/2	4,428.03	1/2	4,782.60	1/2	5,117.83	1/2		1/2		1/2		1/2		1/2	
3/4	3,710.26	3/4	4,072.92	3/4	4,435.59	3/4	4,789.78	3/4	5,124.58	3/4		3/4		3/4		3/4		3/4	
3	3,717.82	3	4,080.48	3	4,443.14	3	4,796.97	3	5,131.33	3		3		3		3		3	
1/4	3,725.37	1/4	4,088.03	1/4	4,450.68	1/4	4,804.12	1/4	5,138.05	1/4		1/4		1/4		1/4		1/4	
1/2	3,732.93	1/2	4,095.59	1/2	4,458.22	1/2	4,811.27	1/2	5,144.76	1/2		1/2		1/2		1/2		1/2	
3/4	3,740.48	3/4	4,103.15	3/4	4,465.76	3/4	4,818.43	3/4	5,151.48	3/4		3/4		3/4		3/4		3/4	
4	3,748.04	4	4,110.70	4	4,473.30	4	4,825.58	4	5,158.19	4		4		4		4		4	
1/4	3,755.59	1/4	4,118.26	1/4	4,480.81	1/4	4,832.70	1/4	5,164.85	1/4		1/4		1/4		1/4		1/4	
1/2	3,763.15	1/2	4,125.81	1/2	4,488.32	1/2	4,839.82	1/2	5,171.51	1/2		1/2		1/2		1/2		1/2	
3/4	3,770.70	3/4	4,133.37	3/4	4,495.83	3/4	4,846.95	3/4	5,178.17	3/4		3/4		3/4		3/4		3/4	
5	3,778.26	5	4,140.92	5	4,503.34	5	4,854.07	5	5,184.83	5		5		5		5		5	
1/4	3,785.81	1/4	4,148.48	1/4	4,510.82	1/4	4,861.16	1/4	5,190.87	1/4		1/4		1/4		1/4		1/4	
1/2	3,793.37	1/2	4,156.03	1/2	4,518.30	1/2	4,868.26	1/2	5,196.90	1/2		1/2		1/2		1/2		1/2	
3/4	3,800.93	3/4	4,163.59	3/4	4,525.79	3/4	4,875.35	3/4	5,202.93	3/4		3/4		3/4		3/4		3/4	
6	3,808.48	6	4,171.15	6	4,533.27	6	4,882.44	6	5,208.97	6		6		6		6		6	
1/4	3,816.04	1/4	4,178.70	1/4	4,540.72	1/4	4,889.51	1/4	5,214.54	1/4		1/4		1/4		1/4		1/4	
1/2	3,823.59	1/2	4,186.26	1/2	4,548.17	1/2	4,896.57	1/2	5,220.10	1/2		1/2		1/2		1/2		1/2	
3/4	3,831.15	3/4	4,193.81	3/4	4,555.62	3/4	4,903.63	3/4	5,225.67	3/4		3/4		3/4		3/4		3/4	
7	3,838.70	7	4,201.37	7	4,563.07	7	4,910.70	7	5,231.24	7		7		7		7		7	
1/4	3,846.26	1/4	4,208.92	1/4	4,570.49	1/4	4,917.73	1/4	5,235.57	1/4		1/4		1/4		1/4		1/4	
1/2	3,853.81	1/2	4,216.48	1/2	4,577.91	1/2	4,924.77	1/2	5,239.91	1/2		1/2		1/2		1/2		1/2	
3/4	3,861.37	3/4	4,224.03	3/4	4,585.33	3/4	4,931.80	3/4	5,244.24	3/4		3/4		3/4		3/4		3/4	
8	3,868.93	8	4,231.59	8	4,592.75	8	4,938.83	8	5,248.58	8		8		8		8		8	
1/4	3,876.48	1/4	4,239.14	1/4	4,600.15	1/4	4,945.84	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,884.04	1/2	4,246.70	1/2	4,607.54	1/2	4,952.84	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,891.59	3/4	4,254.26	3/4	4,614.93	3/4	4,959.84	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,899.15	9	4,261.81	9	4,622.32	9	4,966.85	9		9		9		9		9		9	
1/4	3,906.70	1/4	4,269.37	1/4	4,629.68	1/4	4,973.82	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,914.26	1/2	4,276.92	1/2	4,637.04	1/2	4,980.80	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,921.81	3/4	4,284.48	3/4	4,644.40	3/4	4,987.78	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,929.37	10	4,292.03	10	4,651.76	10	4,994.75	10		10		10		10		10		10	
1/4	3,936.92	1/4	4,299.59	1/4	4,659.10	1/4	5,001.70	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,944.48	1/2	4,307.14	1/2	4,666.43	1/2	5,008.65	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,952.04	3/4	4,314.70	3/4	4,673.76	3/4	5,015.59	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,959.59	11	4,322.26	11	4,681.09	11	5,022.54	11		11		11		11		11		11	
1/4	3,967.15	1/4	4,329.81	1/4	4,688.39	1/4	5,029.38	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,974.70	1/2	4,337.37	1/2	4,695.69	1/2	5,036.23	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,982.26	3/4	4,344.92	3/4	4,702.99	3/4	5,043.07	3/4		3/4		3/4		3/4		3/4		3/4	

STRAPPED: 04/25/2013 CL - SW
CALCULATED: 04/25/2013 CL
PRINTED: 04/25/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2013

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 "HBC 304"

1 STBD

INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/2"

	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	5 FT.	6 FT.	7 FT.	8 FT.	9 FT.									
0	22.97	0	362.74	0	725.39	0	1,086.86	0	1,448.33	0	1,810.99	0	2,173.65	0	2,536.32	0	2,898.88	0	3,261.41
1/4	27.37	1/4	370.30	1/4	732.95	1/4	1,094.36	1/4	1,455.88	1/4	1,818.55	1/4	2,181.21	1/4	2,543.87	1/4	2,906.43	1/4	3,268.96
1/2	31.78	1/2	377.85	1/2	740.50	1/2	1,101.86	1/2	1,463.44	1/2	1,826.10	1/2	2,188.76	1/2	2,551.43	1/2	2,913.99	1/2	3,276.52
3/4	36.18	3/4	385.41	3/4	748.06	3/4	1,109.37	3/4	1,470.99	3/4	1,833.66	3/4	2,196.32	3/4	2,558.98	3/4	2,921.54	3/4	3,284.07
1	40.59	1	392.96	1	755.61	1	1,116.87	1	1,478.55	1	1,841.21	1	2,203.88	1	2,566.54	1	2,929.09	1	3,291.62
1/4	46.26	1/4	400.52	1/4	763.17	1/4	1,124.37	1/4	1,486.10	1/4	1,848.77	1/4	2,211.43	1/4	2,574.09	1/4	2,936.64	1/4	3,299.17
1/2	51.92	1/2	408.08	1/2	770.72	1/2	1,131.88	1/2	1,493.66	1/2	1,856.32	1/2	2,218.99	1/2	2,581.65	1/2	2,944.20	1/2	3,306.73
3/4	57.59	3/4	415.63	3/4	778.28	3/4	1,139.38	3/4	1,501.21	3/4	1,863.88	3/4	2,226.54	3/4	2,589.21	3/4	2,951.75	3/4	3,314.28
2	63.25	2	423.19	2	785.84	2	1,146.89	2	1,508.77	2	1,871.43	2	2,234.10	2	2,596.76	2	2,959.30	2	3,321.83
1/4	70.18	1/4	430.74	1/4	793.39	1/4	1,154.39	1/4	1,516.33	1/4	1,878.99	1/4	2,241.65	1/4	2,604.32	1/4	2,966.86	1/4	3,329.38
1/2	77.10	1/2	438.30	1/2	800.95	1/2	1,161.89	1/2	1,523.88	1/2	1,886.54	1/2	2,249.21	1/2	2,611.87	1/2	2,974.41	1/2	3,336.94
3/4	84.02	3/4	445.85	3/4	808.50	3/4	1,169.40	3/4	1,531.44	3/4	1,894.10	3/4	2,256.76	3/4	2,619.43	3/4	2,981.96	3/4	3,344.49
3	90.95	3	453.41	3	816.06	3	1,176.90	3	1,538.99	3	1,901.66	3	2,264.32	3	2,626.98	3	2,989.51	3	3,352.04
1/4	98.47	1/4	460.96	1/4	823.61	1/4	1,184.40	1/4	1,546.55	1/4	1,909.21	1/4	2,271.87	1/4	2,634.54	1/4	2,997.07	1/4	3,359.60
1/2	105.99	1/2	468.52	1/2	831.17	1/2	1,191.91	1/2	1,554.10	1/2	1,916.77	1/2	2,279.43	1/2	2,642.09	1/2	3,004.62	1/2	3,367.15
3/4	113.50	3/4	476.07	3/4	838.72	3/4	1,199.41	3/4	1,561.66	3/4	1,924.32	3/4	2,286.99	3/4	2,649.64	3/4	3,012.17	3/4	3,374.70
4	121.02	4	483.63	4	846.28	4	1,206.92	4	1,569.21	4	1,931.88	4	2,294.54	4	2,657.19	4	3,019.72	4	3,382.25
1/4	128.57	1/4	491.18	1/4	853.83	1/4	1,214.42	1/4	1,576.77	1/4	1,939.43	1/4	2,302.10	1/4	2,664.75	1/4	3,027.28	1/4	3,389.81
1/2	136.11	1/2	498.74	1/2	861.39	1/2	1,221.92	1/2	1,584.32	1/2	1,946.99	1/2	2,309.65	1/2	2,672.30	1/2	3,034.83	1/2	3,397.36
3/4	143.66	3/4	506.29	3/4	868.94	3/4	1,229.43	3/4	1,591.88	3/4	1,954.54	3/4	2,317.21	3/4	2,679.85	3/4	3,042.38	3/4	3,404.91
5	151.20	5	513.85	5	876.50	5	1,236.93	5	1,599.44	5	1,962.10	5	2,324.76	5	2,687.41	5	3,049.93	5	3,412.46
1/4	158.76	1/4	521.40	1/4	884.05	1/4	1,244.45	1/4	1,606.99	1/4	1,969.65	1/4	2,332.32	1/4	2,694.96	1/4	3,057.49	1/4	3,420.02
1/2	166.31	1/2	528.96	1/2	891.61	1/2	1,251.96	1/2	1,614.55	1/2	1,977.21	1/2	2,339.87	1/2	2,702.51	1/2	3,065.04	1/2	3,427.57
3/4	173.87	3/4	536.51	3/4	899.16	3/4	1,259.48	3/4	1,622.10	3/4	1,984.77	3/4	2,347.43	3/4	2,710.06	3/4	3,072.59	3/4	3,435.12
6	181.42	6	544.07	6	906.72	6	1,266.99	6	1,629.66	6	1,992.32	6	2,354.99	6	2,717.62	6	3,080.15	6	3,442.68
1/4	188.97	1/4	551.62	1/4	914.23	1/4	1,274.55	1/4	1,637.21	1/4	1,999.88	1/4	2,362.54	1/4	2,725.17	1/4	3,087.70	1/4	3,450.23
1/2	196.53	1/2	559.18	1/2	921.75	1/2	1,282.10	1/2	1,644.77	1/2	2,007.43	1/2	2,370.10	1/2	2,732.72	1/2	3,095.25	1/2	3,457.78
3/4	204.08	3/4	566.73	3/4	929.27	3/4	1,289.66	3/4	1,652.32	3/4	2,014.99	3/4	2,377.65	3/4	2,740.27	3/4	3,102.80	3/4	3,465.33
7	211.64	7	574.29	7	936.78	7	1,297.22	7	1,659.88	7	2,022.54	7	2,385.21	7	2,747.83	7	3,110.36	7	3,472.89
1/4	219.20	1/4	581.84	1/4	944.29	1/4	1,304.77	1/4	1,667.44	1/4	2,030.10	1/4	2,392.76	1/4	2,755.38	1/4	3,117.91	1/4	3,480.44
1/2	226.75	1/2	589.40	1/2	951.79	1/2	1,312.33	1/2	1,674.99	1/2	2,037.65	1/2	2,400.32	1/2	2,762.93	1/2	3,125.46	1/2	3,487.99
3/4	234.31	3/4	596.96	3/4	959.29	3/4	1,319.88	3/4	1,682.55	3/4	2,045.21	3/4	2,407.87	3/4	2,770.48	3/4	3,133.01	3/4	3,495.54
8	241.86	8	604.51	8	966.80	8	1,327.44	8	1,690.10	8	2,052.77	8	2,415.43	8	2,778.04	8	3,140.57	8	3,503.10
1/4	249.42	1/4	612.07	1/4	974.30	1/4	1,334.99	1/4	1,697.66	1/4	2,060.32	1/4	2,422.98	1/4	2,785.59	1/4	3,148.12	1/4	3,510.65
1/2	256.97	1/2	619.62	1/2	981.80	1/2	1,342.55	1/2	1,705.21	1/2	2,067.88	1/2	2,430.54	1/2	2,793.14	1/2	3,155.67	1/2	3,518.20
3/4	264.53	3/4	627.18	3/4	989.31	3/4	1,350.10	3/4	1,712.77	3/4	2,075.43	3/4	2,438.10	3/4	2,800.70	3/4	3,163.23	3/4	3,525.75
9	272.08	9	634.73	9	996.81	9	1,357.66	9	1,720.32	9	2,082.99	9	2,445.65	9	2,808.25	9	3,170.78	9	3,533.31
1/4	279.64	1/4	642.29	1/4	1,004.32	1/4	1,365.22	1/4	1,727.88	1/4	2,090.54	1/4	2,453.21	1/4	2,815.80	1/4	3,178.33	1/4	3,540.86
1/2	287.19	1/2	649.84	1/2	1,011.82	1/2	1,372.77	1/2	1,735.43	1/2	2,098.10	1/2	2,460.76	1/2	2,823.35	1/2	3,185.88	1/2	3,548.41
3/4	294.75	3/4	657.40	3/4	1,019.32	3/4	1,380.33	3/4	1,742.99	3/4	2,105.65	3/4	2,468.32	3/4	2,830.91	3/4	3,193.44	3/4	3,555.97
10	302.30	10	664.95	10	1,026.83	10	1,387.88	10	1,750.55	10	2,113.21	10	2,475.87	10	2,838.46	10	3,200.99	10	3,563.52
1/4	309.86	1/4	672.51	1/4	1,034.33	1/4	1,395.44	1/4	1,758.10	1/4	2,120.76	1/4	2,483.43	1/4	2,846.01	1/4	3,208.54	1/4	3,571.07
1/2	317.41	1/2	680.06	1/2	1,041.83	1/2	1,402.99	1/2	1,765.66	1/2	2,128.32	1/2	2,490.98	1/2	2,853.56	1/2	3,216.09	1/2	3,578.62
3/4	324.97	3/4	687.62	3/4	1,049.34	3/4	1,410.55	3/4	1,773.21	3/4	2,135.88	3/4	2,498.54	3/4	2,861.12	3/4	3,223.65	3/4	3,586.18
11	332.52	11	695.17	11	1,056.84	11	1,418.10	11	1,780.77	11	2,143.43	11	2,506.10	11	2,868.67	11	3,231.20	11	3,593.73
1/4	340.08	1/4	702.73	1/4	1,064.35	1/4	1,425.66	1/4	1,788.32	1/4	2,150.99	1/4	2,513.65	1/4	2,876.22	1/4	3,238.75	1/4	3,601.28
1/2	347.63	1/2	710.28	1/2	1,071.85	1/2	1,433.21	1/2	1,795.88	1/2	2,158.54	1/2	2,521.21	1/2	2,883.78	1/2	3,246.30	1/2	3,608.83
3/4	355.19	3/4	717.84	3/4	1,079.35	3/4	1,440.77	3/4	1,803.43	3/4	2,166.10	3/4	2,528.76	3/4	2,891.33	3/4	3,253.86	3/4	3,616.39

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" HERMETIC CLOSED GAUGING VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
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BARGE "HBC 304"

**1 STBD
INNAGE TABLE**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/2"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
0	3,623.94	0	3,986.47	0	4,349.00	0	4,706.70	0	5,046.19	0		0		0		0		0	
1/4	3,631.49	1/4	3,994.02	1/4	4,356.55	1/4	4,713.97	1/4	5,053.00	1/4		1/4		1/4		1/4		1/4	
1/2	3,639.05	1/2	4,001.57	1/2	4,364.10	1/2	4,721.24	1/2	5,059.82	1/2		1/2		1/2		1/2		1/2	
3/4	3,646.60	3/4	4,009.13	3/4	4,371.66	3/4	4,728.51	3/4	5,066.63	3/4		3/4		3/4		3/4		3/4	
1	3,654.15	1	4,016.68	1	4,379.21	1	4,735.78	1	5,073.44	1		1		1		1		1	
1/4	3,661.70	1/4	4,024.23	1/4	4,386.76	1/4	4,742.99	1/4	5,080.22	1/4		1/4		1/4		1/4		1/4	
1/2	3,669.26	1/2	4,031.79	1/2	4,394.32	1/2	4,750.20	1/2	5,087.01	1/2		1/2		1/2		1/2		1/2	
3/4	3,676.81	3/4	4,039.34	3/4	4,401.87	3/4	4,757.41	3/4	5,093.79	3/4		3/4		3/4		3/4		3/4	
2	3,684.36	2	4,046.89	2	4,409.42	2	4,764.62	2	5,100.57	2		2		2		2		2	
1/4	3,691.91	1/4	4,054.44	1/4	4,416.97	1/4	4,771.80	1/4	5,107.32	1/4		1/4		1/4		1/4		1/4	
1/2	3,699.47	1/2	4,062.00	1/2	4,424.53	1/2	4,778.98	1/2	5,114.07	1/2		1/2		1/2		1/2		1/2	
3/4	3,707.02	3/4	4,069.55	3/4	4,432.08	3/4	4,786.16	3/4	5,120.83	3/4		3/4		3/4		3/4		3/4	
3	3,714.57	3	4,077.10	3	4,439.63	3	4,793.34	3	5,127.58	3		3		3		3		3	
1/4	3,722.13	1/4	4,084.65	1/4	4,447.17	1/4	4,800.49	1/4	5,134.29	1/4		1/4		1/4		1/4		1/4	
1/2	3,729.68	1/2	4,092.21	1/2	4,454.71	1/2	4,807.64	1/2	5,141.00	1/2		1/2		1/2		1/2		1/2	
3/4	3,737.23	3/4	4,099.76	3/4	4,462.25	3/4	4,814.79	3/4	5,147.71	3/4		3/4		3/4		3/4		3/4	
4	3,744.78	4	4,107.31	4	4,469.79	4	4,821.94	4	5,154.43	4		4		4		4		4	
1/4	3,752.34	1/4	4,114.87	1/4	4,477.30	1/4	4,829.06	1/4	5,161.08	1/4		1/4		1/4		1/4		1/4	
1/2	3,759.89	1/2	4,122.42	1/2	4,484.81	1/2	4,836.18	1/2	5,167.74	1/2		1/2		1/2		1/2		1/2	
3/4	3,767.44	3/4	4,129.97	3/4	4,492.32	3/4	4,843.30	3/4	5,174.40	3/4		3/4		3/4		3/4		3/4	
5	3,774.99	5	4,137.52	5	4,499.82	5	4,850.42	5	5,181.05	5		5		5		5		5	
1/4	3,782.55	1/4	4,145.08	1/4	4,507.30	1/4	4,857.51	1/4	5,187.08	1/4		1/4		1/4		1/4		1/4	
1/2	3,790.10	1/2	4,152.63	1/2	4,514.78	1/2	4,864.60	1/2	5,193.12	1/2		1/2		1/2		1/2		1/2	
3/4	3,797.65	3/4	4,160.18	3/4	4,522.26	3/4	4,871.69	3/4	5,199.15	3/4		3/4		3/4		3/4		3/4	
6	3,805.20	6	4,167.73	6	4,529.74	6	4,878.78	6	5,205.18	6		6		6		6		6	
1/4	3,812.76	1/4	4,175.29	1/4	4,537.19	1/4	4,885.85	1/4	5,210.74	1/4		1/4		1/4		1/4		1/4	
1/2	3,820.31	1/2	4,182.84	1/2	4,544.63	1/2	4,892.91	1/2	5,216.31	1/2		1/2		1/2		1/2		1/2	
3/4	3,827.86	3/4	4,190.39	3/4	4,552.08	3/4	4,899.97	3/4	5,221.87	3/4		3/4		3/4		3/4		3/4	
7	3,835.42	7	4,197.95	7	4,559.53	7	4,907.03	7	5,227.44	7		7		7		7		7	
1/4	3,842.97	1/4	4,205.50	1/4	4,566.95	1/4	4,914.06	1/4	5,231.77	1/4		1/4		1/4		1/4		1/4	
1/2	3,850.52	1/2	4,213.05	1/2	4,574.37	1/2	4,921.09	1/2	5,236.11	1/2		1/2		1/2		1/2		1/2	
3/4	3,858.07	3/4	4,220.60	3/4	4,581.78	3/4	4,928.12	3/4	5,240.44	3/4		3/4		3/4		3/4		3/4	
8	3,865.63	8	4,228.16	8	4,589.20	8	4,935.15	8	5,244.77	8		8		8		8		8	
1/4	3,873.18	1/4	4,235.71	1/4	4,596.59	1/4	4,942.15	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,880.73	1/2	4,243.26	1/2	4,603.98	1/2	4,949.15	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,888.28	3/4	4,250.81	3/4	4,611.37	3/4	4,956.15	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,895.84	9	4,258.37	9	4,618.76	9	4,963.16	9		9		9		9		9		9	
1/4	3,903.39	1/4	4,265.92	1/4	4,626.12	1/4	4,970.13	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,910.94	1/2	4,273.47	1/2	4,633.47	1/2	4,977.10	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,918.50	3/4	4,281.02	3/4	4,640.83	3/4	4,984.08	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,926.05	10	4,288.58	10	4,648.19	10	4,991.05	10		10		10		10		10		10	
1/4	3,933.60	1/4	4,296.13	1/4	4,655.52	1/4	4,997.99	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,941.15	1/2	4,303.68	1/2	4,662.85	1/2	5,004.94	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,948.71	3/4	4,311.24	3/4	4,670.18	3/4	5,011.88	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,956.26	11	4,318.79	11	4,677.51	11	5,018.82	11		11		11		11		11		11	
1/4	3,963.81	1/4	4,326.34	1/4	4,684.81	1/4	5,025.67	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,971.36	1/2	4,333.89	1/2	4,692.10	1/2	5,032.51	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,978.92	3/4	4,341.45	3/4	4,699.40	3/4	5,039.35	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/25/2013 CL - SW
CALCULATED: 04/25/2013 CL
PRINTED: 04/25/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2013

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "HBC 304"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
0	22.89	0	361.53	0	722.96	0	1,084.16	0	1,445.36	0	1,806.80	0	2,168.25	0	2,529.69	0	2,891.04	0	3,252.35
1/4	27.28	1/4	369.06	1/4	730.49	1/4	1,091.67	1/4	1,452.89	1/4	1,814.33	1/4	2,175.78	1/4	2,537.22	1/4	2,898.56	1/4	3,259.88
1/2	31.67	1/2	376.59	1/2	738.02	1/2	1,099.19	1/2	1,460.42	1/2	1,821.86	1/2	2,183.31	1/2	2,544.75	1/2	2,906.09	1/2	3,267.41
3/4	36.06	3/4	384.12	3/4	745.55	3/4	1,106.71	3/4	1,467.95	3/4	1,829.39	3/4	2,190.84	3/4	2,552.28	3/4	2,913.62	3/4	3,274.93
1	40.45	1	391.65	1	753.08	1	1,114.23	1	1,475.48	1	1,836.92	1	2,198.37	1	2,559.81	1	2,921.15	1	3,282.46
1/4	46.10	1/4	399.18	1/4	760.61	1/4	1,121.75	1/4	1,483.01	1/4	1,844.45	1/4	2,205.90	1/4	2,567.34	1/4	2,928.67	1/4	3,289.99
1/2	51.75	1/2	406.71	1/2	768.14	1/2	1,129.26	1/2	1,490.54	1/2	1,851.98	1/2	2,213.43	1/2	2,574.87	1/2	2,936.20	1/2	3,297.52
3/4	57.39	3/4	414.24	3/4	775.67	3/4	1,136.78	3/4	1,498.07	3/4	1,859.51	3/4	2,220.96	3/4	2,582.40	3/4	2,943.73	3/4	3,305.04
2	63.04	2	421.77	2	783.20	2	1,144.30	2	1,505.60	2	1,867.04	2	2,228.49	2	2,589.93	2	2,951.26	2	3,312.57
1/4	69.94	1/4	429.30	1/4	790.73	1/4	1,151.82	1/4	1,513.13	1/4	1,874.57	1/4	2,236.02	1/4	2,597.46	1/4	2,958.78	1/4	3,320.10
1/2	76.84	1/2	436.83	1/2	798.26	1/2	1,159.33	1/2	1,520.66	1/2	1,882.10	1/2	2,243.55	1/2	2,604.99	1/2	2,966.31	1/2	3,327.63
3/4	83.74	3/4	444.36	3/4	805.79	3/4	1,166.85	3/4	1,528.19	3/4	1,889.63	3/4	2,251.08	3/4	2,612.52	3/4	2,973.84	3/4	3,335.15
3	90.64	3	451.89	3	813.32	3	1,174.37	3	1,535.72	3	1,897.16	3	2,258.61	3	2,620.05	3	2,981.37	3	3,342.68
1/4	98.14	1/4	459.42	1/4	820.85	1/4	1,181.89	1/4	1,543.25	1/4	1,904.69	1/4	2,266.14	1/4	2,627.58	1/4	2,988.89	1/4	3,350.21
1/2	105.63	1/2	466.95	1/2	828.38	1/2	1,189.41	1/2	1,550.78	1/2	1,912.22	1/2	2,273.67	1/2	2,635.11	1/2	2,996.42	1/2	3,357.74
3/4	113.12	3/4	474.48	3/4	835.91	3/4	1,196.92	3/4	1,558.31	3/4	1,919.75	3/4	2,281.20	3/4	2,642.63	3/4	3,003.95	3/4	3,365.26
4	120.62	4	482.01	4	843.44	4	1,204.44	4	1,565.84	4	1,927.28	4	2,288.73	4	2,650.16	4	3,011.48	4	3,372.79
1/4	128.14	1/4	489.54	1/4	850.97	1/4	1,211.96	1/4	1,573.37	1/4	1,934.81	1/4	2,296.26	1/4	2,657.69	1/4	3,019.00	1/4	3,380.32
1/2	135.66	1/2	497.07	1/2	858.50	1/2	1,219.48	1/2	1,580.90	1/2	1,942.34	1/2	2,303.79	1/2	2,665.22	1/2	3,026.53	1/2	3,387.85
3/4	143.18	3/4	504.60	3/4	866.03	3/4	1,226.99	3/4	1,588.43	3/4	1,949.87	3/4	2,311.32	3/4	2,672.74	3/4	3,034.06	3/4	3,395.37
5	150.70	5	512.13	5	873.56	5	1,234.51	5	1,595.96	5	1,957.40	5	2,318.85	5	2,680.27	5	3,041.59	5	3,402.90
1/4	158.22	1/4	519.66	1/4	881.09	1/4	1,242.04	1/4	1,603.49	1/4	1,964.93	1/4	2,326.38	1/4	2,687.80	1/4	3,049.11	1/4	3,410.43
1/2	165.75	1/2	527.19	1/2	888.62	1/2	1,249.57	1/2	1,611.02	1/2	1,972.46	1/2	2,333.91	1/2	2,695.32	1/2	3,056.64	1/2	3,417.96
3/4	173.28	3/4	534.72	3/4	896.15	3/4	1,257.10	3/4	1,618.55	3/4	1,979.99	3/4	2,341.44	3/4	2,702.85	3/4	3,064.17	3/4	3,425.48
6	180.81	6	542.25	6	903.68	6	1,264.63	6	1,626.08	6	1,987.52	6	2,348.97	6	2,710.38	6	3,071.69	6	3,433.01
1/4	188.34	1/4	549.78	1/4	911.21	1/4	1,272.16	1/4	1,633.61	1/4	1,995.05	1/4	2,356.50	1/4	2,717.91	1/4	3,079.22	1/4	3,440.54
1/2	195.87	1/2	557.31	1/2	918.74	1/2	1,279.69	1/2	1,641.14	1/2	2,002.58	1/2	2,364.03	1/2	2,725.43	1/2	3,086.75	1/2	3,448.06
3/4	203.40	3/4	564.84	3/4	926.27	3/4	1,287.22	3/4	1,648.67	3/4	2,010.11	3/4	2,371.56	3/4	2,732.96	3/4	3,094.28	3/4	3,455.59
7	210.93	7	572.37	7	933.80	7	1,294.75	7	1,656.20	7	2,017.64	7	2,379.09	7	2,740.49	7	3,101.80	7	3,463.12
1/4	218.46	1/4	579.90	1/4	941.32	1/4	1,302.28	1/4	1,663.73	1/4	2,025.17	1/4	2,386.62	1/4	2,748.02	1/4	3,109.33	1/4	3,470.65
1/2	225.99	1/2	587.43	1/2	948.84	1/2	1,309.81	1/2	1,671.26	1/2	2,032.70	1/2	2,394.15	1/2	2,755.54	1/2	3,116.86	1/2	3,478.17
3/4	233.52	3/4	594.96	3/4	956.35	3/4	1,317.34	3/4	1,678.79	3/4	2,040.23	3/4	2,401.68	3/4	2,763.07	3/4	3,124.39	3/4	3,485.70
8	241.05	8	602.49	8	963.87	8	1,324.87	8	1,686.32	8	2,047.76	8	2,409.21	8	2,770.60	8	3,131.91	8	3,493.23
1/4	248.58	1/4	610.01	1/4	971.39	1/4	1,332.40	1/4	1,693.85	1/4	2,055.29	1/4	2,416.74	1/4	2,778.13	1/4	3,139.44	1/4	3,500.76
1/2	256.11	1/2	617.54	1/2	978.91	1/2	1,339.93	1/2	1,701.38	1/2	2,062.82	1/2	2,424.27	1/2	2,785.65	1/2	3,146.97	1/2	3,508.28
3/4	263.64	3/4	625.07	3/4	986.43	3/4	1,347.46	3/4	1,708.91	3/4	2,070.35	3/4	2,431.80	3/4	2,793.18	3/4	3,154.50	3/4	3,515.81
9	271.17	9	632.60	9	993.94	9	1,354.99	9	1,716.44	9	2,077.88	9	2,439.33	9	2,800.71	9	3,162.02	9	3,523.34
1/4	278.70	1/4	640.13	1/4	1,001.46	1/4	1,362.52	1/4	1,723.97	1/4	2,085.41	1/4	2,446.86	1/4	2,808.24	1/4	3,169.55	1/4	3,530.87
1/2	286.23	1/2	647.66	1/2	1,008.98	1/2	1,370.05	1/2	1,731.50	1/2	2,092.94	1/2	2,454.39	1/2	2,815.76	1/2	3,177.08	1/2	3,538.39
3/4	293.76	3/4	655.19	3/4	1,016.50	3/4	1,377.58	3/4	1,739.03	3/4	2,100.47	3/4	2,461.92	3/4	2,823.29	3/4	3,184.61	3/4	3,545.92
10	301.29	10	662.72	10	1,024.01	10	1,385.11	10	1,746.56	10	2,108.00	10	2,469.45	10	2,830.82	10	3,192.13	10	3,553.45
1/4	308.82	1/4	670.25	1/4	1,031.53	1/4	1,392.64	1/4	1,754.09	1/4	2,115.53	1/4	2,476.98	1/4	2,838.35	1/4	3,199.66	1/4	3,560.98
1/2	316.35	1/2	677.78	1/2	1,039.05	1/2	1,400.17	1/2	1,761.62	1/2	2,123.06	1/2	2,484.51	1/2	2,845.87	1/2	3,207.19	1/2	3,568.50
3/4	323.88	3/4	685.31	3/4	1,046.57	3/4	1,407.70	3/4	1,769.15	3/4	2,130.59	3/4	2,492.04	3/4	2,853.40	3/4	3,214.72	3/4	3,576.03
11	331.41	11	692.84	11	1,054.09	11	1,415.24	11	1,776.68	11	2,138.12	11	2,499.57	11	2,860.93	11	3,222.24	11	3,583.56
1/4	338.94	1/4	700.37	1/4	1,061.60	1/4	1,422.77	1/4	1,784.21	1/4	2,145.65	1/4	2,507.10	1/4	2,868.46	1/4	3,229.77	1/4	3,591.09
1/2	346.47	1/2	707.90	1/2	1,069.12	1/2	1,430.30	1/2	1,791.74	1/2	2,153.18	1/2	2,514.63	1/2	2,875.98	1/2	3,237.30	1/2	3,598.61
3/4	354.00	3/4	715.43	3/4	1,076.64	3/4	1,437.83	3/4	1,799.27	3/4	2,160.71	3/4	2,522.16	3/4	2,883.51	3/4	3,244.83	3/4	3,606.14

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" HERMETIC CLOSED GAUGING VALVE.
GAUGE POINT: (HERMETIC) LOCATED 10'-06" 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 "HBC 304"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
0	3,613.67	0	3,974.98	0	4,336.30	0	4,692.80	0	5,031.15	0		0		0		0		0	
1/4	3,621.20	1/4	3,982.51	1/4	4,343.83	1/4	4,700.04	1/4	5,037.94	1/4		1/4		1/4		1/4		1/4	
1/2	3,628.72	1/2	3,990.04	1/2	4,351.35	1/2	4,707.28	1/2	5,044.73	1/2		1/2		1/2		1/2		1/2	
3/4	3,636.25	3/4	3,997.57	3/4	4,358.88	3/4	4,714.53	3/4	5,051.52	3/4		3/4		3/4		3/4		3/4	
1	3,643.78	1	4,005.09	1	4,366.41	1	4,721.77	1	5,058.31	1		1		1		1		1	
1/4	3,651.30	1/4	4,012.62	1/4	4,373.94	1/4	4,728.96	1/4	5,065.07	1/4		1/4		1/4		1/4		1/4	
1/2	3,658.83	1/2	4,020.15	1/2	4,381.46	1/2	4,736.15	1/2	5,071.83	1/2		1/2		1/2		1/2		1/2	
3/4	3,666.36	3/4	4,027.67	3/4	4,388.99	3/4	4,743.33	3/4	5,078.59	3/4		3/4		3/4		3/4		3/4	
2	3,673.89	2	4,035.20	2	4,396.52	2	4,750.52	2	5,085.35	2		2		2		2		2	
1/4	3,681.41	1/4	4,042.73	1/4	4,404.04	1/4	4,757.67	1/4	5,092.08	1/4		1/4		1/4		1/4		1/4	
1/2	3,688.94	1/2	4,050.26	1/2	4,411.57	1/2	4,764.83	1/2	5,098.81	1/2		1/2		1/2		1/2		1/2	
3/4	3,696.47	3/4	4,057.78	3/4	4,419.10	3/4	4,771.99	3/4	5,105.54	3/4		3/4		3/4		3/4		3/4	
3	3,704.00	3	4,065.31	3	4,426.63	3	4,779.14	3	5,112.26	3		3		3		3		3	
1/4	3,711.52	1/4	4,072.84	1/4	4,434.14	1/4	4,786.27	1/4	5,118.95	1/4		1/4		1/4		1/4		1/4	
1/2	3,719.05	1/2	4,080.37	1/2	4,441.65	1/2	4,793.40	1/2	5,125.64	1/2		1/2		1/2		1/2		1/2	
3/4	3,726.58	3/4	4,087.89	3/4	4,449.17	3/4	4,800.52	3/4	5,132.33	3/4		3/4		3/4		3/4		3/4	
4	3,734.11	4	4,095.42	4	4,456.68	4	4,807.65	4	5,139.02	4		4		4		4		4	
1/4	3,741.63	1/4	4,102.95	1/4	4,464.16	1/4	4,814.74	1/4	5,145.66	1/4		1/4		1/4		1/4		1/4	
1/2	3,749.16	1/2	4,110.48	1/2	4,471.64	1/2	4,821.84	1/2	5,152.29	1/2		1/2		1/2		1/2		1/2	
3/4	3,756.69	3/4	4,118.00	3/4	4,479.13	3/4	4,828.94	3/4	5,158.93	3/4		3/4		3/4		3/4		3/4	
5	3,764.22	5	4,125.53	5	4,486.61	5	4,836.03	5	5,165.56	5		5		5		5		5	
1/4	3,771.74	1/4	4,133.06	1/4	4,494.06	1/4	4,843.10	1/4	5,171.57	1/4		1/4		1/4		1/4		1/4	
1/2	3,779.27	1/2	4,140.59	1/2	4,501.52	1/2	4,850.17	1/2	5,177.59	1/2		1/2		1/2		1/2		1/2	
3/4	3,786.80	3/4	4,148.11	3/4	4,508.97	3/4	4,857.24	3/4	5,183.60	3/4		3/4		3/4		3/4		3/4	
6	3,794.33	6	4,155.64	6	4,516.42	6	4,864.30	6	5,189.61	6		6		6		6		6	
1/4	3,801.85	1/4	4,163.17	1/4	4,523.85	1/4	4,871.34	1/4	5,195.15	1/4		1/4		1/4		1/4		1/4	
1/2	3,809.38	1/2	4,170.70	1/2	4,531.27	1/2	4,878.38	1/2	5,200.70	1/2		1/2		1/2		1/2		1/2	
3/4	3,816.91	3/4	4,178.22	3/4	4,538.69	3/4	4,885.41	3/4	5,206.25	3/4		3/4		3/4		3/4		3/4	
7	3,824.43	7	4,185.75	7	4,546.11	7	4,892.45	7	5,211.79	7		7		7		7		7	
1/4	3,831.96	1/4	4,193.28	1/4	4,553.51	1/4	4,899.46	1/4	5,216.11	1/4		1/4		1/4		1/4		1/4	
1/2	3,839.49	1/2	4,200.80	1/2	4,560.90	1/2	4,906.47	1/2	5,220.43	1/2		1/2		1/2		1/2		1/2	
3/4	3,847.02	3/4	4,208.33	3/4	4,568.30	3/4	4,913.47	3/4	5,224.75	3/4		3/4		3/4		3/4		3/4	
8	3,854.54	8	4,215.86	8	4,575.69	8	4,920.48	8	5,229.07	8		8		8		8		8	
1/4	3,862.07	1/4	4,223.39	1/4	4,583.05	1/4	4,927.46	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,869.60	1/2	4,230.91	1/2	4,590.42	1/2	4,934.44	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,877.13	3/4	4,238.44	3/4	4,597.78	3/4	4,941.41	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,884.65	9	4,245.97	9	4,605.14	9	4,948.39	9		9		9		9		9		9	
1/4	3,892.18	1/4	4,253.50	1/4	4,612.48	1/4	4,955.34	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,899.71	1/2	4,261.02	1/2	4,619.81	1/2	4,962.29	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,907.24	3/4	4,268.55	3/4	4,627.15	3/4	4,969.24	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,914.76	10	4,276.08	10	4,634.48	10	4,976.19	10		10		10		10		10		10	
1/4	3,922.29	1/4	4,283.61	1/4	4,641.78	1/4	4,983.11	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,929.82	1/2	4,291.13	1/2	4,649.09	1/2	4,990.03	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,937.35	3/4	4,298.66	3/4	4,656.39	3/4	4,996.96	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,944.87	11	4,306.19	11	4,663.70	11	5,003.88	11		11		11		11		11		11	
1/4	3,952.40	1/4	4,313.72	1/4	4,670.97	1/4	5,010.69	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,959.93	1/2	4,321.24	1/2	4,678.25	1/2	5,017.51	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,967.46	3/4	4,328.77	3/4	4,685.52	3/4	5,024.33	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/25/2013 CL - SW
CALCULATED: 04/25/2013 CL
PRINTED: 04/25/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2013

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



BARGE "HBC 304"

2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 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	22.89	0	361.53	0	722.96	0	1,076.21	0	1,429.47	0	1,790.92	0	2,152.37	0	2,513.82	0	2,875.16	0	3,236.47
1/4	27.28	1/4	369.06	1/4	730.49	1/4	1,083.40	1/4	1,437.00	1/4	1,798.45	1/4	2,159.90	1/4	2,521.35	1/4	2,882.69	1/4	3,244.00
1/2	31.67	1/2	376.59	1/2	738.02	1/2	1,090.58	1/2	1,444.53	1/2	1,805.98	1/2	2,167.43	1/2	2,528.88	1/2	2,890.22	1/2	3,251.53
3/4	36.06	3/4	384.12	3/4	745.55	3/4	1,097.77	3/4	1,452.06	3/4	1,813.51	3/4	2,174.96	3/4	2,536.41	3/4	2,897.74	3/4	3,259.05
1	40.45	1	391.65	1	753.08	1	1,104.96	1	1,459.59	1	1,821.04	1	2,182.49	1	2,543.94	1	2,905.27	1	3,266.58
1/4	46.10	1/4	399.18	1/4	760.61	1/4	1,112.14	1/4	1,467.12	1/4	1,828.57	1/4	2,190.02	1/4	2,551.47	1/4	2,912.80	1/4	3,274.11
1/2	51.75	1/2	406.71	1/2	768.14	1/2	1,119.33	1/2	1,474.65	1/2	1,836.10	1/2	2,197.55	1/2	2,559.00	1/2	2,920.33	1/2	3,281.64
3/4	57.39	3/4	414.24	3/4	775.67	3/4	1,126.52	3/4	1,482.18	3/4	1,843.63	3/4	2,205.08	3/4	2,566.53	3/4	2,927.85	3/4	3,289.16
2	63.04	2	421.77	2	783.20	2	1,133.70	2	1,489.71	2	1,851.16	2	2,212.61	2	2,574.06	2	2,935.38	2	3,296.69
1/4	69.94	1/4	429.30	1/4	790.73	1/4	1,140.89	1/4	1,497.24	1/4	1,858.69	1/4	2,220.14	1/4	2,581.59	1/4	2,942.91	1/4	3,304.22
1/2	76.84	1/2	436.83	1/2	798.26	1/2	1,148.08	1/2	1,504.77	1/2	1,866.22	1/2	2,227.67	1/2	2,589.12	1/2	2,950.44	1/2	3,311.75
3/4	83.74	3/4	444.36	3/4	805.79	3/4	1,155.27	3/4	1,512.30	3/4	1,873.75	3/4	2,235.20	3/4	2,596.65	3/4	2,957.96	3/4	3,319.27
3	90.64	3	451.89	3	813.32	3	1,162.45	3	1,519.83	3	1,881.28	3	2,242.73	3	2,604.18	3	2,965.49	3	3,326.80
1/4	98.14	1/4	459.42	1/4	820.85	1/4	1,169.64	1/4	1,527.36	1/4	1,888.81	1/4	2,250.26	1/4	2,611.71	1/4	2,973.02	1/4	3,334.33
1/2	105.63	1/2	466.95	1/2	828.38	1/2	1,176.83	1/2	1,534.89	1/2	1,896.34	1/2	2,257.79	1/2	2,619.23	1/2	2,980.54	1/2	3,341.86
3/4	113.12	3/4	474.48	3/4	835.91	3/4	1,184.01	3/4	1,542.42	3/4	1,903.87	3/4	2,265.32	3/4	2,626.76	3/4	2,988.07	3/4	3,349.38
4	120.62	4	482.01	4	843.44	4	1,191.20	4	1,549.95	4	1,911.40	4	2,272.85	4	2,634.29	4	2,995.60	4	3,356.91
1/4	128.14	1/4	489.54	1/4	850.97	1/4	1,198.39	1/4	1,557.48	1/4	1,918.93	1/4	2,280.38	1/4	2,641.82	1/4	3,003.13	1/4	3,364.44
1/2	135.66	1/2	497.07	1/2	858.50	1/2	1,205.57	1/2	1,565.01	1/2	1,926.46	1/2	2,287.91	1/2	2,649.34	1/2	3,010.65	1/2	3,371.96
3/4	143.18	3/4	504.60	3/4	866.03	3/4	1,212.76	3/4	1,572.54	3/4	1,933.99	3/4	2,295.44	3/4	2,656.87	3/4	3,018.18	3/4	3,379.49
5	150.70	5	512.13	5	873.56	5	1,219.95	5	1,580.07	5	1,941.52	5	2,302.97	5	2,664.40	5	3,025.71	5	3,387.02
1/4	158.22	1/4	519.66	1/4	881.09	1/4	1,227.15	1/4	1,587.60	1/4	1,949.05	1/4	2,310.50	1/4	2,671.93	1/4	3,033.24	1/4	3,394.55
1/2	165.75	1/2	527.19	1/2	888.62	1/2	1,234.35	1/2	1,595.13	1/2	1,956.58	1/2	2,318.03	1/2	2,679.45	1/2	3,040.76	1/2	3,402.07
3/4	173.28	3/4	534.72	3/4	896.15	3/4	1,241.54	3/4	1,602.66	3/4	1,964.11	3/4	2,325.56	3/4	2,686.98	3/4	3,048.29	3/4	3,409.60
6	180.81	6	542.25	6	903.68	6	1,248.74	6	1,610.19	6	1,971.64	6	2,333.09	6	2,694.51	6	3,055.82	6	3,417.13
1/4	188.34	1/4	549.78	1/4	910.88	1/4	1,256.27	1/4	1,617.72	1/4	1,979.17	1/4	2,340.62	1/4	2,702.03	1/4	3,063.34	1/4	3,424.66
1/2	195.87	1/2	557.31	1/2	918.08	1/2	1,263.80	1/2	1,625.25	1/2	1,986.70	1/2	2,348.15	1/2	2,709.56	1/2	3,070.87	1/2	3,432.18
3/4	203.40	3/4	564.84	3/4	925.27	3/4	1,271.33	3/4	1,632.78	3/4	1,994.23	3/4	2,355.68	3/4	2,717.09	3/4	3,078.40	3/4	3,439.71
7	210.93	7	572.37	7	932.47	7	1,278.86	7	1,640.31	7	2,001.76	7	2,363.21	7	2,724.62	7	3,085.93	7	3,447.24
1/4	218.46	1/4	579.90	1/4	939.66	1/4	1,286.39	1/4	1,647.84	1/4	2,009.29	1/4	2,370.74	1/4	2,732.14	1/4	3,093.45	1/4	3,454.76
1/2	225.99	1/2	587.43	1/2	946.85	1/2	1,293.92	1/2	1,655.37	1/2	2,016.82	1/2	2,378.27	1/2	2,739.67	1/2	3,100.98	1/2	3,462.29
3/4	233.52	3/4	594.95	3/4	954.03	3/4	1,301.46	3/4	1,662.90	3/4	2,024.35	3/4	2,385.80	3/4	2,747.20	3/4	3,108.51	3/4	3,469.82
8	241.05	8	602.48	8	961.22	8	1,308.99	8	1,670.43	8	2,031.88	8	2,393.33	8	2,754.73	8	3,116.04	8	3,477.35
1/4	248.58	1/4	610.01	1/4	968.41	1/4	1,316.52	1/4	1,677.96	1/4	2,039.41	1/4	2,400.86	1/4	2,762.25	1/4	3,123.56	1/4	3,484.87
1/2	256.11	1/2	617.54	1/2	975.59	1/2	1,324.05	1/2	1,685.50	1/2	2,046.94	1/2	2,408.39	1/2	2,769.78	1/2	3,131.09	1/2	3,492.40
3/4	263.64	3/4	625.07	3/4	982.78	3/4	1,331.58	3/4	1,693.03	3/4	2,054.47	3/4	2,415.92	3/4	2,777.31	3/4	3,138.62	3/4	3,499.93
9	271.17	9	632.60	9	989.97	9	1,339.11	9	1,700.56	9	2,062.01	9	2,423.45	9	2,784.83	9	3,146.15	9	3,507.46
1/4	278.70	1/4	640.13	1/4	997.15	1/4	1,346.64	1/4	1,708.09	1/4	2,069.54	1/4	2,430.99	1/4	2,792.36	1/4	3,153.67	1/4	3,514.98
1/2	286.23	1/2	647.66	1/2	1,004.34	1/2	1,354.17	1/2	1,715.62	1/2	2,077.07	1/2	2,438.52	1/2	2,799.89	1/2	3,161.20	1/2	3,522.51
3/4	293.76	3/4	655.19	3/4	1,011.53	3/4	1,361.70	3/4	1,723.15	3/4	2,084.60	3/4	2,446.05	3/4	2,807.42	3/4	3,168.73	3/4	3,530.04
10	301.29	10	662.72	10	1,018.71	10	1,369.23	10	1,730.68	10	2,092.13	10	2,453.58	10	2,814.94	10	3,176.25	10	3,537.56
1/4	308.82	1/4	670.25	1/4	1,025.90	1/4	1,376.76	1/4	1,738.21	1/4	2,099.66	1/4	2,461.11	1/4	2,822.47	1/4	3,183.78	1/4	3,545.09
1/2	316.35	1/2	677.78	1/2	1,033.09	1/2	1,384.29	1/2	1,745.74	1/2	2,107.19	1/2	2,468.64	1/2	2,830.00	1/2	3,191.31	1/2	3,552.62
3/4	323.88	3/4	685.31	3/4	1,040.28	3/4	1,391.82	3/4	1,753.27	3/4	2,114.72	3/4	2,476.17	3/4	2,837.53	3/4	3,198.84	3/4	3,560.15
11	331.41	11	692.84	11	1,047.46	11	1,399.35	11	1,760.80	11	2,122.25	11	2,483.70	11	2,845.05	11	3,206.36	11	3,567.67
1/4	338.94	1/4	700.37	1/4	1,054.65	1/4	1,406.88	1/4	1,768.33	1/4	2,129.78	1/4	2,491.23	1/4	2,852.58	1/4	3,213.89	1/4	3,575.20
1/2	346.47	1/2	707.90	1/2	1,061.84	1/2	1,414.41	1/2	1,775.86	1/2	2,137.31	1/2	2,498.76	1/2	2,860.11	1/2	3,221.42	1/2	3,582.73
3/4	354.00	3/4	715.43	3/4	1,069.02	3/4	1,421.94	3/4	1,783.39	3/4	2,144.84	3/4	2,506.29	3/4	2,867.64	3/4	3,228.95	3/4	3,590.26

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" HERMETIC CLOSED GAUGING VALVE.

GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HBC 304"

**2 STBD
INNAGE TABLE**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/2"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
0	3,597.78	0	3,959.09	0	4,320.40	0	4,676.91	0	5,015.27	0		0		0		0		0	
1/4	3,605.31	1/4	3,966.62	1/4	4,327.93	1/4	4,684.15	1/4	5,022.06	1/4		1/4		1/4		1/4		1/4	
1/2	3,612.84	1/2	3,974.15	1/2	4,335.46	1/2	4,691.40	1/2	5,028.85	1/2		1/2		1/2		1/2		1/2	
3/4	3,620.37	3/4	3,981.68	3/4	4,342.99	3/4	4,698.64	3/4	5,035.64	3/4		3/4		3/4		3/4		3/4	
1	3,627.89	1	3,989.20	1	4,350.51	1	4,705.89	1	5,042.43	1		1		1		1		1	
1/4	3,635.42	1/4	3,996.73	1/4	4,358.04	1/4	4,713.07	1/4	5,049.19	1/4		1/4		1/4		1/4		1/4	
1/2	3,642.95	1/2	4,004.26	1/2	4,365.57	1/2	4,720.26	1/2	5,055.95	1/2		1/2		1/2		1/2		1/2	
3/4	3,650.47	3/4	4,011.78	3/4	4,373.10	3/4	4,727.45	3/4	5,062.71	3/4		3/4		3/4		3/4		3/4	
2	3,658.00	2	4,019.31	2	4,380.62	2	4,734.63	2	5,069.47	2		2		2		2		2	
1/4	3,665.53	1/4	4,026.84	1/4	4,388.15	1/4	4,741.79	1/4	5,076.19	1/4		1/4		1/4		1/4		1/4	
1/2	3,673.06	1/2	4,034.37	1/2	4,395.68	1/2	4,748.94	1/2	5,082.92	1/2		1/2		1/2		1/2		1/2	
3/4	3,680.58	3/4	4,041.89	3/4	4,403.20	3/4	4,756.10	3/4	5,089.65	3/4		3/4		3/4		3/4		3/4	
3	3,688.11	3	4,049.42	3	4,410.73	3	4,763.26	3	5,096.38	3		3		3		3		3	
1/4	3,695.64	1/4	4,056.95	1/4	4,418.25	1/4	4,770.38	1/4	5,103.07	1/4		1/4		1/4		1/4		1/4	
1/2	3,703.17	1/2	4,064.48	1/2	4,425.76	1/2	4,777.51	1/2	5,109.76	1/2		1/2		1/2		1/2		1/2	
3/4	3,710.69	3/4	4,072.00	3/4	4,433.28	3/4	4,784.64	3/4	5,116.45	3/4		3/4		3/4		3/4		3/4	
4	3,718.22	4	4,079.53	4	4,440.79	4	4,791.76	4	5,123.14	4		4		4		4		4	
1/4	3,725.75	1/4	4,087.06	1/4	4,448.27	1/4	4,798.86	1/4	5,129.78	1/4		1/4		1/4		1/4		1/4	
1/2	3,733.27	1/2	4,094.59	1/2	4,455.76	1/2	4,805.96	1/2	5,136.41	1/2		1/2		1/2		1/2		1/2	
3/4	3,740.80	3/4	4,102.11	3/4	4,463.24	3/4	4,813.05	3/4	5,143.04	3/4		3/4		3/4		3/4		3/4	
5	3,748.33	5	4,109.64	5	4,470.72	5	4,820.15	5	5,149.68	5		5		5		5		5	
1/4	3,755.86	1/4	4,117.17	1/4	4,478.18	1/4	4,827.22	1/4	5,155.69	1/4		1/4		1/4		1/4		1/4	
1/2	3,763.38	1/2	4,124.69	1/2	4,485.63	1/2	4,834.28	1/2	5,161.70	1/2		1/2		1/2		1/2		1/2	
3/4	3,770.91	3/4	4,132.22	3/4	4,493.08	3/4	4,841.35	3/4	5,167.71	3/4		3/4		3/4		3/4		3/4	
6	3,778.44	6	4,139.75	6	4,500.54	6	4,848.42	6	5,173.72	6		6		6		6		6	
1/4	3,785.97	1/4	4,147.28	1/4	4,507.96	1/4	4,855.45	1/4	5,179.27	1/4		1/4		1/4		1/4		1/4	
1/2	3,793.49	1/2	4,154.80	1/2	4,515.38	1/2	4,862.49	1/2	5,184.82	1/2		1/2		1/2		1/2		1/2	
3/4	3,801.02	3/4	4,162.33	3/4	4,522.80	3/4	4,869.53	3/4	5,190.36	3/4		3/4		3/4		3/4		3/4	
7	3,808.55	7	4,169.86	7	4,530.23	7	4,876.57	7	5,195.91	7		7		7		7		7	
1/4	3,816.07	1/4	4,177.39	1/4	4,537.62	1/4	4,883.57	1/4	5,200.23	1/4		1/4		1/4		1/4		1/4	
1/2	3,823.60	1/2	4,184.91	1/2	4,545.02	1/2	4,890.58	1/2	5,204.55	1/2		1/2		1/2		1/2		1/2	
3/4	3,831.13	3/4	4,192.44	3/4	4,552.41	3/4	4,897.59	3/4	5,208.87	3/4		3/4		3/4		3/4		3/4	
8	3,838.66	8	4,199.97	8	4,559.80	8	4,904.60	8	5,213.19	8		8		8		8		8	
1/4	3,846.18	1/4	4,207.49	1/4	4,567.17	1/4	4,911.57	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,853.71	1/2	4,215.02	1/2	4,574.53	1/2	4,918.55	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,861.24	3/4	4,222.55	3/4	4,581.89	3/4	4,925.53	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,868.77	9	4,230.08	9	4,589.26	9	4,932.51	9		9		9		9		9		9	
1/4	3,876.29	1/4	4,237.60	1/4	4,596.59	1/4	4,939.46	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,883.82	1/2	4,245.13	1/2	4,603.93	1/2	4,946.41	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,891.35	3/4	4,252.66	3/4	4,611.26	3/4	4,953.36	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,898.88	10	4,260.19	10	4,618.59	10	4,960.31	10		10		10		10		10		10	
1/4	3,906.40	1/4	4,267.71	1/4	4,625.90	1/4	4,967.23	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,913.93	1/2	4,275.24	1/2	4,633.20	1/2	4,974.15	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,921.46	3/4	4,282.77	3/4	4,640.51	3/4	4,981.07	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,928.98	11	4,290.29	11	4,647.81	11	4,987.99	11		11		11		11		11		11	
1/4	3,936.51	1/4	4,297.82	1/4	4,655.08	1/4	4,994.81	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,944.04	1/2	4,305.35	1/2	4,662.36	1/2	5,001.63	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,951.57	3/4	4,312.88	3/4	4,669.63	3/4	5,008.45	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/25/2013 CL - SW
CALCULATED: 04/25/2013 CL
PRINTED: 04/25/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2013

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "HBC 304"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-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	22.78	0	359.76	0	719.42	0	1,078.87	0	1,438.38	0	1,798.05	0	2,157.70	0	2,517.28	0	2,876.68	0	3,235.18
1/4	27.15	1/4	367.25	1/4	726.91	1/4	1,086.35	1/4	1,445.87	1/4	1,805.55	1/4	2,165.19	1/4	2,524.78	1/4	2,884.16	1/4	3,242.62
1/2	31.52	1/2	374.74	1/2	734.40	1/2	1,093.83	1/2	1,453.37	1/2	1,813.04	1/2	2,172.68	1/2	2,532.27	1/2	2,891.63	1/2	3,250.06
3/4	35.89	3/4	382.24	3/4	741.89	3/4	1,101.32	3/4	1,460.86	3/4	1,820.53	3/4	2,180.17	3/4	2,539.76	3/4	2,899.11	3/4	3,257.51
1	40.26	1	389.73	1	749.39	1	1,108.80	1	1,468.35	1	1,828.02	1	2,187.66	1	2,547.25	1	2,906.59	1	3,264.95
1/4	45.88	1/4	397.22	1/4	756.88	1/4	1,116.29	1/4	1,475.84	1/4	1,835.52	1/4	2,195.15	1/4	2,554.74	1/4	2,914.06	1/4	3,272.39
1/2	51.50	1/2	404.71	1/2	764.37	1/2	1,123.77	1/2	1,483.34	1/2	1,843.01	1/2	2,202.65	1/2	2,562.23	1/2	2,921.54	1/2	3,279.83
3/4	57.12	3/4	412.21	3/4	771.87	3/4	1,131.25	3/4	1,490.83	3/4	1,850.50	3/4	2,210.14	3/4	2,569.72	3/4	2,929.02	3/4	3,287.28
2	62.74	2	419.70	2	779.36	2	1,138.74	2	1,498.32	2	1,858.00	2	2,217.63	2	2,577.22	2	2,936.50	2	3,294.72
1/4	69.60	1/4	427.19	1/4	786.85	1/4	1,146.22	1/4	1,505.82	1/4	1,865.49	1/4	2,225.12	1/4	2,584.71	1/4	2,943.97	1/4	3,302.16
1/2	76.47	1/2	434.69	1/2	794.35	1/2	1,153.70	1/2	1,513.31	1/2	1,872.98	1/2	2,232.61	1/2	2,592.20	1/2	2,951.45	1/2	3,309.61
3/4	83.33	3/4	442.18	3/4	801.84	3/4	1,161.19	3/4	1,520.80	3/4	1,880.48	3/4	2,240.10	3/4	2,599.69	3/4	2,958.93	3/4	3,317.05
3	90.20	3	449.67	3	809.33	3	1,168.67	3	1,528.30	3	1,887.97	3	2,247.59	3	2,607.18	3	2,966.41	3	3,324.49
1/4	97.66	1/4	457.16	1/4	816.82	1/4	1,176.16	1/4	1,535.79	1/4	1,895.46	1/4	2,255.09	1/4	2,614.67	1/4	2,973.88	1/4	3,331.95
1/2	105.12	1/2	464.66	1/2	824.32	1/2	1,183.64	1/2	1,543.28	1/2	1,902.96	1/2	2,262.58	1/2	2,622.16	1/2	2,981.36	1/2	3,339.41
3/4	112.57	3/4	472.15	3/4	831.81	3/4	1,191.12	3/4	1,550.78	3/4	1,910.45	3/4	2,270.07	3/4	2,629.65	3/4	2,988.84	3/4	3,346.87
4	120.03	4	479.64	4	839.30	4	1,198.61	4	1,558.27	4	1,917.94	4	2,277.56	4	2,637.14	4	2,996.31	4	3,354.33
1/4	127.51	1/4	487.14	1/4	846.80	1/4	1,206.10	1/4	1,565.76	1/4	1,925.44	1/4	2,285.05	1/4	2,644.63	1/4	3,003.79	1/4	3,361.79
1/2	135.00	1/2	494.63	1/2	854.29	1/2	1,213.59	1/2	1,573.26	1/2	1,932.93	1/2	2,292.54	1/2	2,652.12	1/2	3,011.27	1/2	3,369.24
3/4	142.48	3/4	502.12	3/4	861.78	3/4	1,221.08	3/4	1,580.75	3/4	1,940.42	3/4	2,300.03	3/4	2,659.61	3/4	3,018.75	3/4	3,376.70
5	149.96	5	509.62	5	869.27	5	1,228.57	5	1,588.24	5	1,947.92	5	2,307.52	5	2,667.10	5	3,026.22	5	3,384.16
1/4	157.45	1/4	517.11	1/4	876.77	1/4	1,236.06	1/4	1,595.74	1/4	1,955.41	1/4	2,315.02	1/4	2,674.59	1/4	3,033.70	1/4	3,391.62
1/2	164.94	1/2	524.60	1/2	884.26	1/2	1,243.56	1/2	1,603.23	1/2	1,962.90	1/2	2,322.51	1/2	2,682.08	1/2	3,041.18	1/2	3,399.08
3/4	172.44	3/4	532.09	3/4	891.75	3/4	1,251.05	3/4	1,610.72	3/4	1,970.40	3/4	2,330.00	3/4	2,689.57	3/4	3,048.66	3/4	3,406.54
6	179.93	6	539.59	6	899.25	6	1,258.54	6	1,618.22	6	1,977.89	6	2,337.49	6	2,697.06	6	3,056.13	6	3,414.00
1/4	187.42	1/4	547.08	1/4	906.73	1/4	1,266.04	1/4	1,625.71	1/4	1,985.38	1/4	2,344.98	1/4	2,704.55	1/4	3,063.61	1/4	3,421.45
1/2	194.91	1/2	554.57	1/2	914.22	1/2	1,273.53	1/2	1,633.20	1/2	1,992.88	1/2	2,352.47	1/2	2,712.04	1/2	3,071.09	1/2	3,428.91
3/4	202.41	3/4	562.07	3/4	921.71	3/4	1,281.02	3/4	1,640.69	3/4	2,000.37	3/4	2,359.96	3/4	2,719.53	3/4	3,078.56	3/4	3,436.37
7	209.90	7	569.56	7	929.19	7	1,288.51	7	1,648.19	7	2,007.86	7	2,367.46	7	2,727.02	7	3,086.04	7	3,443.83
1/4	217.39	1/4	577.05	1/4	936.68	1/4	1,296.01	1/4	1,655.68	1/4	2,015.35	1/4	2,374.95	1/4	2,734.51	1/4	3,093.52	1/4	3,451.29
1/2	224.88	1/2	584.54	1/2	944.16	1/2	1,303.50	1/2	1,663.17	1/2	2,022.85	1/2	2,382.44	1/2	2,742.00	1/2	3,101.00	1/2	3,458.75
3/4	232.38	3/4	592.04	3/4	951.64	3/4	1,310.99	3/4	1,670.67	3/4	2,030.34	3/4	2,389.93	3/4	2,749.49	3/4	3,108.47	3/4	3,466.21
8	239.87	8	599.53	8	959.13	8	1,318.49	8	1,678.16	8	2,037.83	8	2,397.42	8	2,756.98	8	3,115.95	8	3,473.66
1/4	247.36	1/4	607.02	1/4	966.61	1/4	1,325.98	1/4	1,685.65	1/4	2,045.33	1/4	2,404.91	1/4	2,764.47	1/4	3,123.43	1/4	3,481.12
1/2	254.86	1/2	614.52	1/2	974.10	1/2	1,333.47	1/2	1,693.15	1/2	2,052.82	1/2	2,412.40	1/2	2,771.97	1/2	3,130.91	1/2	3,488.58
3/4	262.35	3/4	622.01	3/4	981.58	3/4	1,340.97	3/4	1,700.64	3/4	2,060.31	3/4	2,419.90	3/4	2,779.46	3/4	3,138.38	3/4	3,496.04
9	269.84	9	629.50	9	989.06	9	1,348.46	9	1,708.13	9	2,067.80	9	2,427.39	9	2,786.95	9	3,145.86	9	3,503.50
1/4	277.34	1/4	636.99	1/4	996.55	1/4	1,355.95	1/4	1,715.63	1/4	2,075.29	1/4	2,434.88	1/4	2,794.43	1/4	3,153.30	1/4	3,510.95
1/2	284.83	1/2	644.49	1/2	1,004.03	1/2	1,363.45	1/2	1,723.12	1/2	2,082.78	1/2	2,442.37	1/2	2,801.90	1/2	3,160.75	1/2	3,511.56
3/4	292.32	3/4	651.98	3/4	1,011.51	3/4	1,370.94	3/4	1,730.61	3/4	2,090.27	3/4	2,449.86	3/4	2,809.38	3/4	3,168.19	3/4	3,515.59
10	299.81	10	659.47	10	1,019.00	10	1,378.43	10	1,738.11	10	2,097.77	10	2,457.35	10	2,816.86	10	3,175.63	10	3,519.62
1/4	307.31	1/4	666.97	1/4	1,026.48	1/4	1,385.93	1/4	1,745.60	1/4	2,105.26	1/4	2,464.84	1/4	2,824.34	1/4	3,183.08	1/4	3,523.65
1/2	314.80	1/2	674.46	1/2	1,033.96	1/2	1,393.42	1/2	1,753.09	1/2	2,112.75	1/2	2,472.34	1/2	2,831.81	1/2	3,190.52	1/2	3,527.68
3/4	322.29	3/4	681.95	3/4	1,041.45	3/4	1,400.91	3/4	1,760.59	3/4	2,120.24	3/4	2,479.83	3/4	2,839.29	3/4	3,197.96	3/4	3,531.71
11	329.79	11	689.44	11	1,048.93	11	1,408.41	11	1,768.08	11	2,127.73	11	2,487.32	11	2,846.77	11	3,205.40	11	3,535.73
1/4	337.28	1/4	696.94	1/4	1,056.42	1/4	1,415.90	1/4	1,775.57	1/4	2,135.22	1/4	2,494.81	1/4	2,854.25	1/4	3,212.85	1/4	3,539.76
1/2	344.77	1/2	704.43	1/2	1,063.90	1/2	1,423.39	1/2	1,783.07	1/2	2,142.71	1/2	2,502.30	1/2	2,861.72	1/2	3,220.29	1/2	3,543.79
3/4	352.26	3/4	711.92	3/4	1,071.38	3/4	1,430.89	3/4	1,790.56	3/4	2,150.21	3/4	2,509.79	3/4	2,869.20	3/4	3,227.73	3/4	3,547.82

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" HERMETIC CLOSED GAUGING VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 55'-00" 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 "HBC 304"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-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	3,551.85	0	3,745.27	0	3,938.68	0	4,129.52	0	4,310.70	0		0		0		0		0	
1/4	3,555.88	1/4	3,749.30	1/4	3,942.71	1/4	4,133.40	1/4	4,314.34	1/4		1/4		1/4		1/4		1/4	
1/2	3,559.91	1/2	3,753.33	1/2	3,946.74	1/2	4,137.28	1/2	4,317.97	1/2		1/2		1/2		1/2		1/2	
3/4	3,563.94	3/4	3,757.36	3/4	3,950.77	3/4	4,141.16	3/4	4,321.61	3/4		3/4		3/4		3/4		3/4	
1	3,567.97	1	3,761.39	1	3,954.80	1	4,145.04	1	4,325.24	1		1		1		1		1	
1/4	3,572.00	1/4	3,765.42	1/4	3,958.83	1/4	4,148.89	1/4	4,328.86	1/4		1/4		1/4		1/4		1/4	
1/2	3,576.03	1/2	3,769.45	1/2	3,962.86	1/2	4,152.73	1/2	4,332.48	1/2		1/2		1/2		1/2		1/2	
3/4	3,580.06	3/4	3,773.48	3/4	3,966.89	3/4	4,156.58	3/4	4,336.10	3/4		3/4		3/4		3/4		3/4	
2	3,584.09	2	3,777.50	2	3,970.92	2	4,160.43	2	4,339.72	2		2		2		2		2	
1/4	3,588.12	1/4	3,781.53	1/4	3,974.95	1/4	4,164.26	1/4	4,343.32	1/4		1/4		1/4		1/4		1/4	
1/2	3,592.15	1/2	3,785.56	1/2	3,978.98	1/2	4,168.09	1/2	4,346.92	1/2		1/2		1/2		1/2		1/2	
3/4	3,596.18	3/4	3,789.59	3/4	3,983.01	3/4	4,171.93	3/4	4,350.52	3/4		3/4		3/4		3/4		3/4	
3	3,600.21	3	3,793.62	3	3,987.04	3	4,175.76	3	4,354.13	3		3		3		3		3	
1/4	3,604.24	1/4	3,797.65	1/4	3,991.06	1/4	4,179.57	1/4	4,357.70	1/4		1/4		1/4		1/4		1/4	
1/2	3,608.27	1/2	3,801.68	1/2	3,995.08	1/2	4,183.39	1/2	4,361.28	1/2		1/2		1/2		1/2		1/2	
3/4	3,612.30	3/4	3,805.71	3/4	3,999.10	3/4	4,187.21	3/4	4,364.86	3/4		3/4		3/4		3/4		3/4	
4	3,616.32	4	3,809.74	4	4,003.12	4	4,191.02	4	4,368.43	4		4		4		4		4	
1/4	3,620.35	1/4	3,813.77	1/4	4,007.13	1/4	4,194.82	1/4	4,371.97	1/4		1/4		1/4		1/4		1/4	
1/2	3,624.38	1/2	3,817.80	1/2	4,011.13	1/2	4,198.62	1/2	4,375.50	1/2		1/2		1/2		1/2		1/2	
3/4	3,628.41	3/4	3,821.83	3/4	4,015.14	3/4	4,202.42	3/4	4,379.04	3/4		3/4		3/4		3/4		3/4	
5	3,632.44	5	3,825.86	5	4,019.14	5	4,206.22	5	4,382.58	5		5		5		5		5	
1/4	3,636.47	1/4	3,829.89	1/4	4,023.13	1/4	4,210.01	1/4	4,385.51	1/4		1/4		1/4		1/4		1/4	
1/2	3,640.50	1/2	3,833.92	1/2	4,027.12	1/2	4,213.79	1/2	4,388.44	1/2		1/2		1/2		1/2		1/2	
3/4	3,644.53	3/4	3,837.95	3/4	4,031.11	3/4	4,217.58	3/4	4,391.37	3/4		3/4		3/4		3/4		3/4	
6	3,648.56	6	3,841.98	6	4,035.10	6	4,221.36	6	4,394.30	6		6		6		6		6	
1/4	3,652.59	1/4	3,846.01	1/4	4,039.08	1/4	4,225.13	1/4	4,396.40	1/4		1/4		1/4		1/4		1/4	
1/2	3,656.62	1/2	3,850.04	1/2	4,043.05	1/2	4,228.90	1/2	4,398.50	1/2		1/2		1/2		1/2		1/2	
3/4	3,660.65	3/4	3,854.07	3/4	4,047.03	3/4	4,232.67	3/4	4,400.61	3/4		3/4		3/4		3/4		3/4	
7	3,664.68	7	3,858.09	7	4,051.00	7	4,236.44	7	4,402.71	7		7		7		7		7	
1/4	3,668.71	1/4	3,862.12	1/4	4,054.96	1/4	4,240.19	1/4	4,403.58	1/4		1/4		1/4		1/4		1/4	
1/2	3,672.74	1/2	3,866.15	1/2	4,058.92	1/2	4,243.94	1/2	4,404.45	1/2		1/2		1/2		1/2		1/2	
3/4	3,676.77	3/4	3,870.18	3/4	4,062.87	3/4	4,247.70	3/4	4,405.32	3/4		3/4		3/4		3/4		3/4	
8	3,680.80	8	3,874.21	8	4,066.83	8	4,251.45	8	4,406.19	8		8		8		8		8	
1/4	3,684.83	1/4	3,878.24	1/4	4,070.77	1/4	4,255.19	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,688.86	1/2	3,882.27	1/2	4,074.72	1/2	4,258.92	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,692.89	3/4	3,886.30	3/4	4,078.66	3/4	4,262.66	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,696.91	9	3,890.33	9	4,082.60	9	4,266.40	9		9		9		9		9		9	
1/4	3,700.94	1/4	3,894.36	1/4	4,086.53	1/4	4,270.12	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,704.97	1/2	3,898.39	1/2	4,090.45	1/2	4,273.84	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,709.00	3/4	3,902.42	3/4	4,094.38	3/4	4,277.56	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,713.03	10	3,906.45	10	4,098.30	10	4,281.28	10		10		10		10		10		10	
1/4	3,717.06	1/4	3,910.48	1/4	4,102.21	1/4	4,284.98	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,721.09	1/2	3,914.51	1/2	4,106.12	1/2	4,288.69	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,725.12	3/4	3,918.54	3/4	4,110.04	3/4	4,292.40	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,729.15	11	3,922.57	11	4,113.95	11	4,296.10	11		11		11		11		11		11	
1/4	3,733.18	1/4	3,926.60	1/4	4,117.84	1/4	4,299.75	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,737.21	1/2	3,930.63	1/2	4,121.73	1/2	4,303.40	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,741.24	3/4	3,934.66	3/4	4,125.63	3/4	4,307.05	3/4		3/4		3/4		3/4		3/4		3/4	

STRAPPED: 04/25/2013 CL - SW
CALCULATED: 04/25/2013 CL
PRINTED: 04/25/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2013

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "HBC 304"

3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-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	22.79	0	359.36	0	718.60	0	1,066.11	0	1,418.89	0	1,777.53	0	2,136.63	0	2,495.67	0	2,854.52	0	3,212.30
1/4	27.16	1/4	366.85	1/4	726.08	1/4	1,073.25	1/4	1,426.31	1/4	1,785.01	1/4	2,144.11	1/4	2,503.15	1/4	2,861.99	1/4	3,219.73
1/2	31.53	1/2	374.33	1/2	733.56	1/2	1,080.40	1/2	1,433.73	1/2	1,792.49	1/2	2,151.59	1/2	2,510.63	1/2	2,869.46	1/2	3,227.16
3/4	35.90	3/4	381.82	3/4	741.05	3/4	1,087.55	3/4	1,441.15	3/4	1,799.97	3/4	2,159.07	3/4	2,518.11	3/4	2,876.92	3/4	3,234.60
1	40.27	1	389.30	1	748.53	1	1,094.69	1	1,448.57	1	1,807.45	1	2,166.55	1	2,525.59	1	2,884.39	1	3,242.03
1/4	45.88	1/4	396.78	1/4	756.02	1/4	1,101.84	1/4	1,455.99	1/4	1,814.93	1/4	2,174.03	1/4	2,533.07	1/4	2,891.85	1/4	3,249.46
1/2	51.49	1/2	404.27	1/2	763.50	1/2	1,108.99	1/2	1,463.41	1/2	1,822.42	1/2	2,181.51	1/2	2,540.55	1/2	2,899.31	1/2	3,256.89
3/4	57.10	3/4	411.75	3/4	770.98	3/4	1,116.13	3/4	1,470.83	3/4	1,829.90	3/4	2,188.99	3/4	2,548.03	3/4	2,906.76	3/4	3,264.32
2	62.71	2	419.24	2	778.47	2	1,123.28	2	1,478.25	2	1,837.38	2	2,196.47	2	2,555.51	2	2,914.22	2	3,271.76
1/4	69.56	1/4	426.72	1/4	785.95	1/4	1,130.42	1/4	1,485.73	1/4	1,844.86	1/4	2,203.95	1/4	2,562.99	1/4	2,921.68	1/4	3,279.19
1/2	76.41	1/2	434.20	1/2	793.44	1/2	1,137.57	1/2	1,493.21	1/2	1,852.34	1/2	2,211.43	1/2	2,570.47	1/2	2,929.14	1/2	3,286.62
3/4	83.25	3/4	441.69	3/4	800.92	3/4	1,144.72	3/4	1,500.70	3/4	1,859.83	3/4	2,218.91	3/4	2,577.95	3/4	2,936.60	3/4	3,294.05
3	90.10	3	449.17	3	808.40	3	1,151.86	3	1,508.18	3	1,867.31	3	2,226.39	3	2,585.43	3	2,944.06	3	3,301.48
1/4	97.55	1/4	456.66	1/4	815.60	1/4	1,159.29	1/4	1,515.66	1/4	1,874.79	1/4	2,233.87	1/4	2,592.91	1/4	2,951.51	1/4	3,308.93
1/2	105.00	1/2	464.14	1/2	822.80	1/2	1,166.72	1/2	1,523.14	1/2	1,882.27	1/2	2,241.35	1/2	2,600.39	1/2	2,958.97	1/2	3,316.38
3/4	112.45	3/4	471.62	3/4	830.00	3/4	1,174.15	3/4	1,530.62	3/4	1,889.75	3/4	2,248.83	3/4	2,607.87	3/4	2,966.43	3/4	3,323.82
4	119.90	4	479.11	4	837.20	4	1,181.58	4	1,538.10	4	1,897.24	4	2,256.31	4	2,615.35	4	2,973.89	4	3,331.27
1/4	127.38	1/4	486.59	1/4	844.37	1/4	1,188.99	1/4	1,545.59	1/4	1,904.72	1/4	2,263.79	1/4	2,622.83	1/4	2,981.35	1/4	3,338.72
1/2	134.86	1/2	494.08	1/2	851.55	1/2	1,196.39	1/2	1,553.07	1/2	1,912.20	1/2	2,271.27	1/2	2,630.31	1/2	2,988.81	1/2	3,346.17
3/4	142.34	3/4	501.56	3/4	858.72	3/4	1,203.79	3/4	1,560.55	3/4	1,919.68	3/4	2,278.75	3/4	2,637.79	3/4	2,996.26	3/4	3,353.61
5	149.82	5	509.04	5	865.89	5	1,211.19	5	1,568.03	5	1,927.16	5	2,286.23	5	2,645.26	5	3,003.72	5	3,361.06
1/4	157.30	1/4	516.53	1/4	873.06	1/4	1,218.59	1/4	1,575.51	1/4	1,934.65	1/4	2,293.71	1/4	2,652.74	1/4	3,011.18	1/4	3,368.51
1/2	164.78	1/2	524.01	1/2	880.23	1/2	1,226.00	1/2	1,583.00	1/2	1,942.13	1/2	2,301.19	1/2	2,660.22	1/2	3,018.64	1/2	3,375.96
3/4	172.26	3/4	531.50	3/4	887.41	3/4	1,233.40	3/4	1,590.48	3/4	1,949.61	3/4	2,308.67	3/4	2,667.70	3/4	3,026.10	3/4	3,383.40
6	179.75	6	538.98	6	894.58	6	1,240.80	6	1,597.96	6	1,957.09	6	2,316.15	6	2,675.18	6	3,033.56	6	3,390.85
1/4	187.23	1/4	546.46	1/4	901.73	1/4	1,248.22	1/4	1,605.44	1/4	1,964.57	1/4	2,323.63	1/4	2,682.66	1/4	3,041.02	1/4	3,398.30
1/2	194.72	1/2	553.95	1/2	908.88	1/2	1,255.64	1/2	1,612.92	1/2	1,972.05	1/2	2,331.11	1/2	2,690.14	1/2	3,048.47	1/2	3,405.74
3/4	202.20	3/4	561.43	3/4	916.03	3/4	1,263.06	3/4	1,620.41	3/4	1,979.54	3/4	2,338.59	3/4	2,697.62	3/4	3,055.93	3/4	3,413.19
7	209.68	7	568.92	7	923.18	7	1,270.48	7	1,627.89	7	1,987.02	7	2,346.07	7	2,705.10	7	3,063.39	7	3,420.64
1/4	217.17	1/4	576.40	1/4	930.32	1/4	1,277.90	1/4	1,635.37	1/4	1,994.50	1/4	2,353.55	1/4	2,712.58	1/4	3,070.86	1/4	3,428.09
1/2	224.65	1/2	583.88	1/2	937.47	1/2	1,285.32	1/2	1,642.85	1/2	2,001.98	1/2	2,361.03	1/2	2,720.05	1/2	3,078.32	1/2	3,435.53
3/4	232.14	3/4	591.37	3/4	944.62	3/4	1,292.74	3/4	1,650.33	3/4	2,009.46	3/4	2,368.51	3/4	2,727.53	3/4	3,085.79	3/4	3,442.98
8	239.62	8	598.85	8	951.76	8	1,300.16	8	1,657.81	8	2,016.95	8	2,375.99	8	2,735.01	8	3,093.25	8	3,450.43
1/4	247.10	1/4	606.34	1/4	958.91	1/4	1,307.58	1/4	1,665.30	1/4	2,024.43	1/4	2,383.47	1/4	2,742.49	1/4	3,100.72	1/4	3,457.88
1/2	254.59	1/2	613.82	1/2	966.06	1/2	1,315.00	1/2	1,672.78	1/2	2,031.91	1/2	2,390.95	1/2	2,749.97	1/2	3,108.19	1/2	3,465.32
3/4	262.07	3/4	621.30	3/4	973.20	3/4	1,322.43	3/4	1,680.26	3/4	2,039.39	3/4	2,398.43	3/4	2,757.45	3/4	3,115.65	3/4	3,472.77
9	269.56	9	628.79	9	980.35	9	1,329.85	9	1,687.74	9	2,046.87	9	2,405.91	9	2,764.93	9	3,123.12	9	3,480.22
1/4	277.04	1/4	636.27	1/4	987.49	1/4	1,337.27	1/4	1,695.22	1/4	2,054.35	1/4	2,413.39	1/4	2,772.40	1/4	3,130.55	1/4	3,487.67
1/2	284.52	1/2	643.76	1/2	994.64	1/2	1,344.69	1/2	1,702.71	1/2	2,061.83	1/2	2,420.87	1/2	2,779.86	1/2	3,137.98	1/2	3,495.12
3/4	292.00	3/4	651.24	3/4	1,001.79	3/4	1,352.11	3/4	1,710.19	3/4	2,069.31	3/4	2,428.35	3/4	2,787.33	3/4	3,145.41	3/4	3,502.57
10	299.49	10	658.72	10	1,008.93	10	1,359.53	10	1,717.67	10	2,076.79	10	2,435.83	10	2,794.80	10	3,152.85	10	3,499.27
1/4	306.98	1/4	666.21	1/4	1,016.08	1/4	1,366.95	1/4	1,725.15	1/4	2,084.27	1/4	2,443.31	1/4	2,802.26	1/4	3,160.28	1/4	3,506.30
1/2	314.46	1/2	673.69	1/2	1,023.23	1/2	1,374.37	1/2	1,732.63	1/2	2,091.75	1/2	2,450.79	1/2	2,809.73	1/2	3,167.71	1/2	3,503.32
3/4	321.94	3/4	681.18	3/4	1,030.37	3/4	1,381.79	3/4	1,740.12	3/4	2,099.23	3/4	2,458.27	3/4	2,817.19	3/4	3,175.14	3/4	3,508.34
11	329.43	11	688.66	11	1,037.52	11	1,389.21	11	1,747.60	11	2,106.71	11	2,465.75	11	2,824.66	11	3,182.57	11	3,512.35
1/4	336.91	1/4	696.14	1/4	1,044.67	1/4	1,396.63	1/4	1,755.08	1/4	2,114.19	1/4	2,473.23	1/4	2,832.13	1/4	3,190.01	1/4	3,516.37
1/2	344.40	1/2	703.63	1/2	1,051.81	1/2	1,404.05	1/2	1,762.56	1/2	2,121.67	1/2	2,480.71	1/2	2,839.59	1/2	3,197.44	1/2	3,520.39
3/4	351.88	3/4	711.11	3/4	1,058.96	3/4	1,411.47	3/4	1,770.04	3/4	2,129.15	3/4	2,488.19	3/4	2,847.06	3/4	3,204.87	3/4	3,524.40

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" HERMETIC CLOSED GAUGING VALVE.

GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 55'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HBC 304"

3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-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	3,528.42	0	3,721.23	0	3,914.04	0	4,104.28	0	4,284.86	0		0		0		0		0	
1/4	3,532.44	1/4	3,725.25	1/4	3,918.06	1/4	4,108.15	1/4	4,288.48	1/4		1/4		1/4		1/4		1/4	
1/2	3,536.45	1/2	3,729.27	1/2	3,922.08	1/2	4,112.02	1/2	4,292.11	1/2		1/2		1/2		1/2		1/2	
3/4	3,540.47	3/4	3,733.28	3/4	3,926.09	3/4	4,115.88	3/4	4,295.73	3/4		3/4		3/4		3/4		3/4	
1	3,544.49	1	3,737.30	1	3,930.11	1	4,119.75	1	4,299.35	1		1		1		1		1	
1/4	3,548.51	1/4	3,741.32	1/4	3,934.13	1/4	4,123.58	1/4	4,302.96	1/4		1/4		1/4		1/4		1/4	
1/2	3,552.52	1/2	3,745.33	1/2	3,938.14	1/2	4,127.42	1/2	4,306.56	1/2		1/2		1/2		1/2		1/2	
3/4	3,556.54	3/4	3,749.35	3/4	3,942.16	3/4	4,131.25	3/4	4,310.17	3/4		3/4		3/4		3/4		3/4	
2	3,560.56	2	3,753.37	2	3,946.18	2	4,135.09	2	4,313.78	2		2		2		2		2	
1/4	3,564.57	1/4	3,757.38	1/4	3,950.20	1/4	4,138.91	1/4	4,317.37	1/4		1/4		1/4		1/4		1/4	
1/2	3,568.59	1/2	3,761.40	1/2	3,954.21	1/2	4,142.73	1/2	4,320.96	1/2		1/2		1/2		1/2		1/2	
3/4	3,572.61	3/4	3,765.42	3/4	3,958.23	3/4	4,146.55	3/4	4,324.54	3/4		3/4		3/4		3/4		3/4	
3	3,576.62	3	3,769.43	3	3,962.25	3	4,150.37	3	4,328.13	3		3		3		3		3	
1/4	3,580.64	1/4	3,773.45	1/4	3,966.26	1/4	4,154.17	1/4	4,331.70	1/4		1/4		1/4		1/4		1/4	
1/2	3,584.66	1/2	3,777.47	1/2	3,970.27	1/2	4,157.98	1/2	4,335.26	1/2		1/2		1/2		1/2		1/2	
3/4	3,588.67	3/4	3,781.49	3/4	3,974.28	3/4	4,161.78	3/4	4,338.83	3/4		3/4		3/4		3/4		3/4	
4	3,592.69	4	3,785.50	4	3,978.28	4	4,165.58	4	4,342.39	4		4		4		4		4	
1/4	3,596.71	1/4	3,789.52	1/4	3,982.28	1/4	4,169.37	1/4	4,345.91	1/4		1/4		1/4		1/4		1/4	
1/2	3,600.72	1/2	3,793.54	1/2	3,986.27	1/2	4,173.16	1/2	4,349.44	1/2		1/2		1/2		1/2		1/2	
3/4	3,604.74	3/4	3,797.55	3/4	3,990.26	3/4	4,176.95	3/4	4,352.96	3/4		3/4		3/4		3/4		3/4	
5	3,608.76	5	3,801.57	5	3,994.26	5	4,180.74	5	4,356.48	5		5		5		5		5	
1/4	3,612.78	1/4	3,805.59	1/4	3,998.23	1/4	4,184.51	1/4	4,359.40	1/4		1/4		1/4		1/4		1/4	
1/2	3,616.79	1/2	3,809.60	1/2	4,002.21	1/2	4,188.28	1/2	4,362.32	1/2		1/2		1/2		1/2		1/2	
3/4	3,620.81	3/4	3,813.62	3/4	4,006.19	3/4	4,192.05	3/4	4,365.24	3/4		3/4		3/4		3/4		3/4	
6	3,624.83	6	3,817.64	6	4,010.17	6	4,195.82	6	4,368.15	6		6		6		6		6	
1/4	3,628.84	1/4	3,821.65	1/4	4,014.13	1/4	4,199.58	1/4	4,370.24	1/4		1/4		1/4		1/4		1/4	
1/2	3,632.86	1/2	3,825.67	1/2	4,018.09	1/2	4,203.34	1/2	4,372.33	1/2		1/2		1/2		1/2		1/2	
3/4	3,636.88	3/4	3,829.69	3/4	4,022.05	3/4	4,207.09	3/4	4,374.42	3/4		3/4		3/4		3/4		3/4	
7	3,640.89	7	3,833.70	7	4,026.01	7	4,210.85	7	4,376.51	7		7		7		7		7	
1/4	3,644.91	1/4	3,837.72	1/4	4,029.96	1/4	4,214.59	1/4	4,377.37	1/4		1/4		1/4		1/4		1/4	
1/2	3,648.93	1/2	3,841.74	1/2	4,033.90	1/2	4,218.33	1/2	4,378.23	1/2		1/2		1/2		1/2		1/2	
3/4	3,652.94	3/4	3,845.76	3/4	4,037.85	3/4	4,222.07	3/4	4,379.08	3/4		3/4		3/4		3/4		3/4	
8	3,656.96	8	3,849.77	8	4,041.79	8	4,225.81	8	4,379.94	8		8		8		8		8	
1/4	3,660.98	1/4	3,853.79	1/4	4,045.72	1/4	4,229.53	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,665.00	1/2	3,857.81	1/2	4,049.65	1/2	4,233.26	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,669.01	3/4	3,861.82	3/4	4,053.58	3/4	4,236.98	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,673.03	9	3,865.84	9	4,057.51	9	4,240.71	9		9		9		9		9		9	
1/4	3,677.05	1/4	3,869.86	1/4	4,061.42	1/4	4,244.41	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,681.06	1/2	3,873.87	1/2	4,065.34	1/2	4,248.12	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,685.08	3/4	3,877.89	3/4	4,069.25	3/4	4,251.83	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,689.10	10	3,881.91	10	4,073.17	10	4,255.54	10		10		10		10		10		10	
1/4	3,693.11	1/4	3,885.92	1/4	4,077.06	1/4	4,259.23	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,697.13	1/2	3,889.94	1/2	4,080.96	1/2	4,262.92	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,701.15	3/4	3,893.96	3/4	4,084.86	3/4	4,266.62	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,705.16	11	3,897.98	11	4,088.76	11	4,270.31	11		11		11		11		11		11	
1/4	3,709.18	1/4	3,901.99	1/4	4,092.64	1/4	4,273.95	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,713.20	1/2	3,906.01	1/2	4,096.52	1/2	4,277.59	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,717.21	3/4	3,910.03	3/4	4,100.40	3/4	4,281.22	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/25/2013 CL - SW
CALCULATED: 04/25/2013 CL
PRINTED: 04/25/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2013

PRECISION MEASUREMENT
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