



BARGE "HBC 311"

ULLAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-3/8	00-3/8
1 STBD	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-3/8	00-3/8
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	- 00-3/8	00-3/8
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	- 00-3/8	00-3/8
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	01-3/4	- 01-3/4	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 ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 4'-00 1/8"

LENGTH BETWEEN DRAFT MARKS: 253'-09"

August 17, 2013

PRECISION MEASUREMENT
 & ANALYSIS, INC.

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HBC 311"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09"

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		0		0	4,968.62	0	4,623.98	0	4,263.34	0	3,900.54	0	3,537.75	0	3,174.96	0	2,812.16	0	2,449.31
1/4		1/4		1/4	4,961.61	1/4	4,616.58	1/4	4,255.78	1/4	3,892.99	1/4	3,530.19	1/4	3,167.40	1/4	2,804.61	1/4	2,441.74
1/2		1/2		1/2	4,954.61	1/2	4,609.19	1/2	4,248.22	1/2	3,885.43	1/2	3,522.63	1/2	3,159.84	1/2	2,797.05	1/2	2,434.18
3/4		3/4		3/4	4,947.60	3/4	4,601.80	3/4	4,240.66	3/4	3,877.87	3/4	3,515.08	3/4	3,152.28	3/4	2,789.49	3/4	2,426.62
1		1	5,250.43	1	4,940.59	1	4,594.40	1	4,233.11	1	3,870.31	1	3,507.52	1	3,144.72	1	2,781.93	1	2,419.06
1/4		1/4	5,246.10	1/4	4,933.56	1/4	4,586.98	1/4	4,225.55	1/4	3,862.75	1/4	3,499.96	1/4	3,137.17	1/4	2,774.37	1/4	2,411.50
1/2		1/2	5,241.76	1/2	4,926.52	1/2	4,579.56	1/2	4,217.99	1/2	3,855.20	1/2	3,492.40	1/2	3,129.61	1/2	2,766.81	1/2	2,403.94
3/4		3/4	5,237.42	3/4	4,919.49	3/4	4,572.13	3/4	4,210.43	3/4	3,847.64	3/4	3,484.84	3/4	3,122.05	3/4	2,759.26	3/4	2,396.38
2		2	5,233.08	2	4,912.45	2	4,564.71	2	4,202.87	2	3,840.08	2	3,477.29	2	3,114.49	2	2,751.70	2	2,388.82
1/4		1/4	5,227.51	1/4	4,905.39	1/4	4,557.25	1/4	4,195.31	1/4	3,832.52	1/4	3,469.73	1/4	3,106.93	1/4	2,744.14	1/4	2,381.26
1/2		1/2	5,221.95	1/2	4,898.32	1/2	4,549.80	1/2	4,187.76	1/2	3,824.96	1/2	3,462.17	1/2	3,099.38	1/2	2,736.58	1/2	2,373.70
3/4		3/4	5,216.38	3/4	4,891.25	3/4	4,542.35	3/4	4,180.20	3/4	3,817.40	3/4	3,454.61	3/4	3,091.82	3/4	2,729.02	3/4	2,366.14
3		3	5,210.81	3	4,884.19	3	4,534.89	3	4,172.64	3	3,809.85	3	3,447.05	3	3,084.26	3	2,721.47	3	2,358.57
1/4		1/4	5,204.77	1/4	4,877.09	1/4	4,527.41	1/4	4,165.08	1/4	3,802.29	1/4	3,439.49	1/4	3,076.70	1/4	2,713.91	1/4	2,351.01
1/2		1/2	5,198.74	1/2	4,870.00	1/2	4,519.93	1/2	4,157.52	1/2	3,794.73	1/2	3,431.94	1/2	3,069.14	1/2	2,706.35	1/2	2,343.45
3/4		3/4	5,192.70	3/4	4,862.90	3/4	4,512.44	3/4	4,149.97	3/4	3,787.17	3/4	3,424.38	3/4	3,061.58	3/4	2,698.79	3/4	2,335.89
4		4	5,186.67	4	4,855.81	4	4,504.96	4	4,142.41	4	3,779.61	4	3,416.82	4	3,054.03	4	2,691.23	4	2,328.33
1/4		1/4	5,180.01	1/4	4,848.68	1/4	4,497.45	1/4	4,134.85	1/4	3,772.06	1/4	3,409.26	1/4	3,046.47	1/4	2,683.67	1/4	2,320.77
1/2		1/2	5,173.34	1/2	4,841.56	1/2	4,489.93	1/2	4,127.29	1/2	3,764.50	1/2	3,401.70	1/2	3,038.91	1/2	2,676.12	1/2	2,313.21
3/4		3/4	5,166.68	3/4	4,834.43	3/4	4,482.42	3/4	4,119.73	3/4	3,756.94	3/4	3,394.15	3/4	3,031.35	3/4	2,668.56	3/4	2,305.65
5		5	5,160.02	5	4,827.30	5	4,474.91	5	4,112.17	5	3,749.38	5	3,386.59	5	3,023.79	5	2,661.00	5	2,298.09
1/4		1/4	5,153.30	1/4	4,820.15	1/4	4,467.36	1/4	4,104.62	1/4	3,741.82	1/4	3,379.03	1/4	3,016.24	1/4	2,653.44	1/4	2,290.53
1/2		1/2	5,146.59	1/2	4,812.99	1/2	4,459.82	1/2	4,097.06	1/2	3,734.26	1/2	3,371.47	1/2	3,008.68	1/2	2,645.88	1/2	2,282.97
3/4		3/4	5,139.87	3/4	4,805.84	3/4	4,452.28	3/4	4,089.50	3/4	3,726.71	3/4	3,363.91	3/4	3,001.12	3/4	2,638.33	3/4	2,275.40
6		6	5,133.15	6	4,798.68	6	4,444.74	6	4,081.94	6	3,719.15	6	3,356.35	6	2,993.56	6	2,630.77	6	2,267.84
1/4		1/4	5,126.40	1/4	4,791.50	1/4	4,437.18	1/4	4,074.38	1/4	3,711.59	1/4	3,348.80	1/4	2,986.00	1/4	2,623.21	1/4	2,260.28
1/2		1/2	5,119.64	1/2	4,784.31	1/2	4,429.62	1/2	4,066.82	1/2	3,704.03	1/2	3,341.24	1/2	2,978.44	1/2	2,615.65	1/2	2,252.72
3/4		3/4	5,112.89	3/4	4,777.13	3/4	4,422.06	3/4	4,059.27	3/4	3,696.47	3/4	3,333.68	3/4	2,970.89	3/4	2,608.08	3/4	2,245.16
7		7	5,106.13	7	4,769.94	7	4,414.50	7	4,051.71	7	3,688.91	7	3,326.12	7	2,963.33	7	2,600.52	7	2,237.60
1/4		1/4	5,099.34	1/4	4,762.73	1/4	4,406.94	1/4	4,044.15	1/4	3,681.36	1/4	3,318.56	1/4	2,955.77	1/4	2,592.96	1/4	2,230.04
1/2		1/2	5,092.56	1/2	4,755.51	1/2	4,399.39	1/2	4,036.59	1/2	3,673.80	1/2	3,311.00	1/2	2,948.21	1/2	2,585.40	1/2	2,222.48
3/4		3/4	5,085.77	3/4	4,748.30	3/4	4,391.83	3/4	4,029.03	3/4	3,666.24	3/4	3,303.45	3/4	2,940.65	3/4	2,577.84	3/4	2,214.92
8		8	5,078.98	8	4,741.08	8	4,384.27	8	4,021.48	8	3,658.68	8	3,295.89	8	2,933.09	8	2,570.28	8	2,207.36
1/4		1/4	5,072.16	1/4	4,733.81	1/4	4,376.71	1/4	4,013.92	1/4	3,651.12	1/4	3,288.33	1/4	2,925.54	1/4	2,562.72	1/4	2,199.80
1/2		1/2	5,065.35	1/2	4,726.53	1/2	4,369.15	1/2	4,006.36	1/2	3,643.57	1/2	3,280.77	1/2	2,917.98	1/2	2,555.16	1/2	2,192.23
3/4		3/4	5,058.53	3/4	4,719.26	3/4	4,361.59	3/4	3,998.80	3/4	3,636.01	3/4	3,273.21	3/4	2,910.42	3/4	2,547.60	3/4	2,184.67
9		9	5,051.71	9	4,711.99	9	4,354.04	9	3,991.24	9	3,628.45	9	3,265.66	9	2,902.86	9	2,540.04	9	2,177.11
1/4		1/4	5,044.87	1/4	4,704.68	1/4	4,346.48	1/4	3,983.68	1/4	3,620.89	1/4	3,258.10	1/4	2,895.30	1/4	2,532.48	1/4	2,169.55
1/2		1/2	5,038.02	1/2	4,697.38	1/2	4,338.92	1/2	3,976.13	1/2	3,613.33	1/2	3,250.54	1/2	2,887.75	1/2	2,524.91	1/2	2,161.99
3/4		3/4	5,031.17	3/4	4,690.07	3/4	4,331.36	3/4	3,968.57	3/4	3,605.77	3/4	3,242.98	3/4	2,880.19	3/4	2,517.35	3/4	2,154.43
10		10	5,024.33	10	4,682.77	10	4,323.80	10	3,961.01	10	3,598.22	10	3,235.42	10	2,872.63	10	2,509.79	10	2,146.87
1/4		1/4	5,017.38	1/4	4,675.44	1/4	4,316.25	1/4	3,953.45	1/4	3,590.66	1/4	3,227.86	1/4	2,865.07	1/4	2,502.23	1/4	2,139.31
1/2		1/2	5,010.43	1/2	4,668.10	1/2	4,308.69	1/2	3,945.89	1/2	3,583.10	1/2	3,220.31	1/2	2,857.51	1/2	2,494.67	1/2	2,131.75
3/4		3/4	5,003.48	3/4	4,660.77	3/4	4,301.13	3/4	3,938.34	3/4	3,575.54	3/4	3,212.75	3/4	2,849.95	3/4	2,487.11	3/4	2,124.19
11		11	4,996.53	11	4,653.43	11	4,293.57	11	3,930.78	11	3,567.98	11	3,205.19	11	2,842.40	11	2,479.55	11	2,116.63
1/4		1/4	4,989.55	1/4	4,646.07	1/4	4,286.01	1/4	3,923.22	1/4	3,560.43	1/4	3,197.63	1/4	2,834.84	1/4	2,471.99	1/4	2,109.06
1/2		1/2	4,982.57	1/2	4,638.71	1/2	4,278.45	1/2	3,915.66	1/2	3,552.87	1/2	3,190.07	1/2	2,827.28	1/2	2,464.43	1/2	2,101.50
3/4		3/4	4,975.60	3/4	4,631.34	3/4	4,270.90	3/4	3,908.10	3/4	3,545.31	3/4	3,182.52	3/4	2,819.72	3/4	2,456.87	3/4	2,093.94

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" HERMETIC CLOSED GAUGING VALVE.
GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "HBC 311"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	2,086.38	0	1,723.46	0	1,360.54	0	998.00	0	635.19	0	272.28	0		0		0		0	
1/4	2,078.82	1/4	1,715.90	1/4	1,352.97	1/4	990.45	1/4	627.62	1/4	264.72	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,071.26	1/2	1,708.34	1/2	1,345.41	1/2	982.90	1/2	620.06	1/2	257.16	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,063.70	3/4	1,700.78	3/4	1,337.85	3/4	975.35	3/4	612.50	3/4	249.59	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	2,056.14	1	1,693.22	1	1,330.29	1	967.80	1	604.94	1	242.03	1	1	1	1	1	1	1	1
1/4	2,048.58	1/4	1,685.65	1/4	1,322.73	1/4	960.26	1/4	597.38	1/4	234.47	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,041.02	1/2	1,678.09	1/2	1,315.17	1/2	952.71	1/2	589.82	1/2	226.91	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,033.46	3/4	1,670.53	3/4	1,307.61	3/4	945.16	3/4	582.26	3/4	219.35	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	2,025.90	2	1,662.97	2	1,300.05	2	937.61	2	574.70	2	211.79	2	2	2	2	2	2	2	2
1/4	2,018.33	1/4	1,655.41	1/4	1,292.49	1/4	930.05	1/4	567.14	1/4	204.23	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,010.77	1/2	1,647.85	1/2	1,284.93	1/2	922.49	1/2	559.58	1/2	196.67	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,003.21	3/4	1,640.29	3/4	1,277.37	3/4	914.93	3/4	552.02	3/4	189.11	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,995.65	3	1,632.73	3	1,269.81	3	907.37	3	544.46	3	181.55	3	3	3	3	3	3	3	3
1/4	1,988.09	1/4	1,625.17	1/4	1,262.24	1/4	899.81	1/4	536.90	1/4	173.99	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,980.53	1/2	1,617.61	1/2	1,254.68	1/2	892.25	1/2	529.34	1/2	166.43	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,972.97	3/4	1,610.05	3/4	1,247.12	3/4	884.69	3/4	521.78	3/4	158.87	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,965.41	4	1,602.48	4	1,239.56	4	877.12	4	514.22	4	151.31	4	4	4	4	4	4	4	4
1/4	1,957.85	1/4	1,594.92	1/4	1,232.01	1/4	869.56	1/4	506.66	1/4	143.76	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,950.29	1/2	1,587.36	1/2	1,224.46	1/2	862.00	1/2	499.09	1/2	136.21	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,942.73	3/4	1,579.80	3/4	1,216.92	3/4	854.44	3/4	491.53	3/4	128.66	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,935.16	5	1,572.24	5	1,209.37	5	846.88	5	483.97	5	121.11	5	5	5	5	5	5	5	5
1/4	1,927.60	1/4	1,564.68	1/4	1,201.82	1/4	839.32	1/4	476.41	1/4	113.59	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,920.04	1/2	1,557.12	1/2	1,194.27	1/2	831.76	1/2	468.85	1/2	106.06	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,912.48	3/4	1,549.56	3/4	1,186.72	3/4	824.20	3/4	461.29	3/4	98.54	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,904.92	6	1,542.00	6	1,179.17	6	816.64	6	453.73	6	91.01	6	6	6	6	6	6	6	6
1/4	1,897.36	1/4	1,534.44	1/4	1,171.62	1/4	809.08	1/4	446.17	1/4	84.08	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,889.80	1/2	1,526.88	1/2	1,164.07	1/2	801.52	1/2	438.61	1/2	77.15	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,882.24	3/4	1,519.31	3/4	1,156.52	3/4	793.96	3/4	431.05	3/4	70.23	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,874.68	7	1,511.75	7	1,148.98	7	786.40	7	423.49	7	63.30	7	7	7	7	7	7	7	7
1/4	1,867.12	1/4	1,504.19	1/4	1,141.43	1/4	778.84	1/4	415.93	1/4	57.63	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,859.56	1/2	1,496.63	1/2	1,133.88	1/2	771.28	1/2	408.37	1/2	51.96	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,851.99	3/4	1,489.07	3/4	1,126.33	3/4	763.72	3/4	400.81	3/4	46.29	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,844.43	8	1,481.51	8	1,118.78	8	756.16	8	393.25	8	40.62	8	8	8	8	8	8	8	8
1/4	1,836.87	1/4	1,473.95	1/4	1,111.23	1/4	748.59	1/4	385.69	1/4	36.21	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,829.31	1/2	1,466.39	1/2	1,103.68	1/2	741.03	1/2	378.13	1/2	31.80	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,821.75	3/4	1,458.83	3/4	1,096.13	3/4	733.47	3/4	370.56	3/4	27.39	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,814.19	9	1,451.27	9	1,088.59	9	725.91	9	363.00	9	22.98	9	9	9	9	9	9	9	9
1/4	1,806.63	1/4	1,443.71	1/4	1,081.04	1/4	718.35	1/4	355.44	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,799.07	1/2	1,436.14	1/2	1,073.49	1/2	710.79	1/2	347.88	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,791.51	3/4	1,428.58	3/4	1,065.94	3/4	703.23	3/4	340.32	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,783.95	10	1,421.02	10	1,058.39	10	695.67	10	332.76	10		10	10	10	10	10	10	10	10
1/4	1,776.39	1/4	1,413.46	1/4	1,050.84	1/4	688.11	1/4	325.20	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,768.82	1/2	1,405.90	1/2	1,043.29	1/2	680.55	1/2	317.64	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,761.26	3/4	1,398.34	3/4	1,035.74	3/4	672.99	3/4	310.08	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,753.70	11	1,390.78	11	1,028.20	11	665.43	11	302.52	11		11	11	11	11	11	11	11	11
1/4	1,746.14	1/4	1,383.22	1/4	1,020.65	1/4	657.87	1/4	294.96	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,738.58	1/2	1,375.66	1/2	1,013.10	1/2	650.31	1/2	287.40	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,731.02	3/4	1,368.10	3/4	1,005.55	3/4	642.75	3/4	279.84	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/16/2013 SW
CALCULATED: 08/16/2013 CL
PRINTED: 08/17/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2013

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "HBC 311"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4		1/4		1/4	4,958.53	1/4	4,613.58	1/4	4,252.87	1/4	3,890.16	1/4	3,527.45	1/4	3,164.74	1/4	2,802.04	1/4	2,439.26		
1/2		1/2		1/2	4,951.53	1/2	4,606.19	1/2	4,245.31	1/2	3,882.60	1/2	3,519.90	1/2	3,157.19	1/2	2,794.48	1/2	2,431.70		
3/4		3/4		3/4	4,944.52	3/4	4,598.80	3/4	4,237.75	3/4	3,875.05	3/4	3,512.34	3/4	3,149.63	3/4	2,786.92	3/4	2,424.14		
1	1	5,247.28	1	4,937.52	1	4,591.41	1	4,230.20	1	3,867.49	1	3,504.78	1	3,142.08	1	2,779.37	1	2,416.59			
1/4		1/4	5,242.94	1/4	4,930.48	1/4	4,583.99	1/4	4,222.64	1/4	3,859.93	1/4	3,497.23	1/4	3,134.52	1/4	2,771.81	1/4	2,409.03		
1/2		1/2	5,238.61	1/2	4,923.45	1/2	4,576.56	1/2	4,215.08	1/2	3,852.38	1/2	3,489.67	1/2	3,126.96	1/2	2,764.26	1/2	2,401.47		
3/4		3/4	5,234.27	3/4	4,916.42	3/4	4,569.14	3/4	4,207.53	3/4	3,844.82	3/4	3,482.11	3/4	3,119.41	3/4	2,756.70	3/4	2,393.91		
2	2	5,229.93	2	4,909.38	2	4,561.72	2	4,199.97	2	3,837.26	2	3,474.56	2	3,111.85	2	2,749.14	2	2,386.35			
1/4		1/4	5,224.37	1/4	4,902.32	1/4	4,554.27	1/4	4,192.41	1/4	3,829.71	1/4	3,467.00	1/4	3,104.29	1/4	2,741.59	1/4	2,378.79		
1/2		1/2	5,218.80	1/2	4,895.25	1/2	4,546.82	1/2	4,184.86	1/2	3,822.15	1/2	3,459.44	1/2	3,096.74	1/2	2,734.03	1/2	2,371.23		
3/4		3/4	5,213.23	3/4	4,888.19	3/4	4,539.37	3/4	4,177.30	3/4	3,814.59	3/4	3,451.89	3/4	3,089.18	3/4	2,726.47	3/4	2,363.67		
3	3	5,207.66	3	4,881.13	3	4,531.91	3	4,169.75	3	3,807.04	3	3,444.33	3	3,081.62	3	2,718.92	3	2,356.11			
1/4		1/4	5,201.63	1/4	4,874.03	1/4	4,524.43	1/4	4,162.19	1/4	3,799.48	1/4	3,436.77	1/4	3,074.07	1/4	2,711.36	1/4	2,348.55		
1/2		1/2	5,195.60	1/2	4,866.94	1/2	4,516.95	1/2	4,154.63	1/2	3,791.93	1/2	3,429.22	1/2	3,066.51	1/2	2,703.80	1/2	2,340.99		
3/4		3/4	5,189.56	3/4	4,859.84	3/4	4,509.47	3/4	4,147.08	3/4	3,784.37	3/4	3,421.66	3/4	3,058.95	3/4	2,696.25	3/4	2,333.44		
4	4	5,183.53	4	4,852.75	4	4,501.99	4	4,139.52	4	3,776.81	4	3,414.11	4	3,051.40	4	2,688.69	4	2,325.88			
1/4		1/4	5,176.87	1/4	4,845.63	1/4	4,494.48	1/4	4,131.96	1/4	3,769.26	1/4	3,406.55	1/4	3,043.84	1/4	2,681.13	1/4	2,318.32		
1/2		1/2	5,170.21	1/2	4,838.50	1/2	4,486.96	1/2	4,124.41	1/2	3,761.70	1/2	3,398.99	1/2	3,036.29	1/2	2,673.58	1/2	2,310.76		
3/4		3/4	5,163.55	3/4	4,831.38	3/4	4,479.45	3/4	4,116.85	3/4	3,754.14	3/4	3,391.44	3/4	3,028.73	3/4	2,666.02	3/4	2,303.20		
5	5	5,156.89	5	4,824.25	5	4,471.94	5	4,109.29	5	3,746.59	5	3,383.88	5	3,021.17	5	2,658.47	5	2,295.64			
1/4		1/4	5,150.17	1/4	4,817.10	1/4	4,464.40	1/4	4,101.74	1/4	3,739.03	1/4	3,376.32	1/4	3,013.62	1/4	2,650.91	1/4	2,288.08		
1/2		1/2	5,143.46	1/2	4,809.95	1/2	4,456.86	1/2	4,094.18	1/2	3,731.47	1/2	3,368.77	1/2	3,006.06	1/2	2,643.35	1/2	2,280.52		
3/4		3/4	5,136.74	3/4	4,802.79	3/4	4,449.32	3/4	4,086.63	3/4	3,723.92	3/4	3,361.21	3/4	2,998.50	3/4	2,635.80	3/4	2,272.96		
6	6	5,130.03	6	4,795.64	6	4,441.78	6	4,079.07	6	3,716.36	6	3,353.65	6	2,990.95	6	2,628.24	6	2,265.40			
1/4		1/4	5,123.27	1/4	4,788.46	1/4	4,434.22	1/4	4,071.51	1/4	3,708.81	1/4	3,346.10	1/4	2,983.39	1/4	2,620.68	1/4	2,257.84		
1/2		1/2	5,116.52	1/2	4,781.27	1/2	4,426.66	1/2	4,063.96	1/2	3,701.25	1/2	3,338.54	1/2	2,975.83	1/2	2,613.12	1/2	2,250.29		
3/4		3/4	5,109.77	3/4	4,774.09	3/4	4,419.11	3/4	4,056.40	3/4	3,693.69	3/4	3,330.99	3/4	2,968.28	3/4	2,605.56	3/4	2,242.73		
7	7	5,103.01	7	4,766.91	7	4,411.55	7	4,048.84	7	3,686.14	7	3,323.43	7	2,960.72	7	2,598.00	7	2,235.17			
1/4		1/4	5,096.23	1/4	4,759.69	1/4	4,403.99	1/4	4,041.29	1/4	3,678.58	1/4	3,315.87	1/4	2,953.17	1/4	2,590.44	1/4	2,227.61		
1/2		1/2	5,089.44	1/2	4,752.48	1/2	4,396.44	1/2	4,033.73	1/2	3,671.02	1/2	3,308.32	1/2	2,945.61	1/2	2,582.89	1/2	2,220.05		
3/4		3/4	5,082.66	3/4	4,745.27	3/4	4,388.88	3/4	4,026.17	3/4	3,663.47	3/4	3,300.76	3/4	2,938.05	3/4	2,575.33	3/4	2,212.49		
8	8	5,075.87	8	4,738.05	8	4,381.32	8	4,018.62	8	3,655.91	8	3,293.20	8	2,930.50	8	2,567.77	8	2,204.93			
1/4		1/4	5,069.05	1/4	4,730.78	1/4	4,373.77	1/4	4,011.06	1/4	3,648.35	1/4	3,285.65	1/4	2,922.94	1/4	2,560.21	1/4	2,197.37		
1/2		1/2	5,062.24	1/2	4,723.51	1/2	4,366.21	1/2	4,003.50	1/2	3,640.80	1/2	3,278.09	1/2	2,915.38	1/2	2,552.65	1/2	2,189.81		
3/4		3/4	5,055.42	3/4	4,716.24	3/4	4,358.66	3/4	3,995.95	3/4	3,633.24	3/4	3,270.53	3/4	2,907.83	3/4	2,545.09	3/4	2,182.25		
9	9	5,048.61	9	4,708.96	9	4,351.10	9	3,988.39	9	3,625.68	9	3,262.98	9	2,900.27	9	2,537.53	9	2,174.69			
1/4		1/4	5,041.76	1/4	4,701.66	1/4	4,343.54	1/4	3,980.84	1/4	3,618.13	1/4	3,255.42	1/4	2,892.71	1/4	2,529.97	1/4	2,167.14		
1/2		1/2	5,034.92	1/2	4,694.36	1/2	4,335.99	1/2	3,973.28	1/2	3,610.57	1/2	3,247.86	1/2	2,885.16	1/2	2,522.41	1/2	2,159.58		
3/4		3/4	5,028.07	3/4	4,687.06	3/4	4,328.43	3/4	3,965.72	3/4	3,603.02	3/4	3,240.31	3/4	2,877.60	3/4	2,514.85	3/4	2,152.02		
10	10	5,021.23	10	4,679.75	10	4,320.87	10	3,958.17	10	3,595.46	10	3,232.75	10	2,870.04	10	2,507.29	10	2,144.46			
1/4		1/4	5,014.28	1/4	4,672.42	1/4	4,313.32	1/4	3,950.61	1/4	3,587.90	1/4	3,225.20	1/4	2,862.49	1/4	2,499.74	1/4	2,136.90		
1/2		1/2	5,007.33	1/2	4,665.09	1/2	4,305.76	1/2	3,943.05	1/2	3,580.35	1/2	3,217.64	1/2	2,854.93	1/2	2,492.18	1/2	2,129.34		
3/4		3/4	5,000.39	3/4	4,657.76	3/4	4,298.20	3/4	3,935.50	3/4	3,572.79	3/4	3,210.08	3/4	2,847.38	3/4	2,484.62	3/4	2,121.78		
11	11	4,993.44	11	4,650.42	11	4,290.65	11	3,927.94	11	3,565.23	11	3,202.53	11	2,839.82	11	2,477.06	11	2,114.22			
1/4		1/4	4,986.46	1/4	4,643.06	1/4	4,283.09	1/4	3,920.38	1/4	3,557.68	1/4	3,194.97	1/4	2,832.26	1/4	2,469.50	1/4	2,106.66		
1/2		1/2	4,979.49	1/2	4,635.70	1/2	4,275.54	1/2	3,912.83	1/2	3,550.12	1/2	3,187.41	1/2	2,824.71	1/2	2,461.94	1/2	2,099.10		
3/4		3/4	4,972.51	3/4	4,628.34	3/4	4,267.98	3/4	3,905.27	3/4	3,542.56	3/4	3,179.86	3/4	2,817.15	3/4	2,454.38	3/4	2,091.54		

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" HERMETIC CLOSED GAUGING VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-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 311"

1 STBD
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	2,083.98	0	1,721.15	0	1,358.31	0	997.29	0	635.03	0	272.21	0		0		0		0	
1/4	2,076.43	1/4	1,713.59	1/4	1,350.75	1/4	989.78	1/4	627.48	1/4	264.65	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,068.87	1/2	1,706.03	1/2	1,343.19	1/2	982.28	1/2	619.92	1/2	257.09	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,061.31	3/4	1,698.47	3/4	1,335.63	3/4	974.77	3/4	612.36	3/4	249.54	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	2,053.75	1	1,690.91	1	1,328.07	1	967.26	1	604.80	1	241.98	1	1	1	1	1	1	1	1
1/4	2,046.19	1/4	1,683.35	1/4	1,320.52	1/4	959.75	1/4	597.24	1/4	234.42	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,038.63	1/2	1,675.79	1/2	1,312.96	1/2	952.25	1/2	589.68	1/2	226.86	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,031.07	3/4	1,668.23	3/4	1,305.40	3/4	944.74	3/4	582.12	3/4	219.30	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	2,023.51	2	1,660.68	2	1,297.84	2	937.23	2	574.56	2	211.74	2	2	2	2	2	2	2	2
1/4	2,015.95	1/4	1,653.12	1/4	1,290.28	1/4	929.71	1/4	567.01	1/4	204.18	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,008.39	1/2	1,645.56	1/2	1,282.72	1/2	922.19	1/2	559.45	1/2	196.62	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,000.83	3/4	1,638.00	3/4	1,275.16	3/4	914.67	3/4	551.89	3/4	189.07	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,993.28	3	1,630.44	3	1,267.60	3	907.15	3	544.33	3	181.51	3	3	3	3	3	3	3	3
1/4	1,985.72	1/4	1,622.88	1/4	1,260.08	1/4	899.59	1/4	536.77	1/4	173.95	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,978.16	1/2	1,615.32	1/2	1,252.56	1/2	892.03	1/2	529.21	1/2	166.39	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,970.60	3/4	1,607.76	3/4	1,245.04	3/4	884.47	3/4	521.65	3/4	158.83	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,963.04	4	1,600.20	4	1,237.52	4	876.92	4	514.09	4	151.28	4	4	4	4	4	4	4	4
1/4	1,955.48	1/4	1,592.64	1/4	1,230.02	1/4	869.36	1/4	506.53	1/4	143.73	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,947.92	1/2	1,585.08	1/2	1,222.51	1/2	861.80	1/2	498.98	1/2	136.18	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,940.36	3/4	1,577.53	3/4	1,215.00	3/4	854.24	3/4	491.42	3/4	128.63	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,932.80	5	1,569.97	5	1,207.50	5	846.68	5	483.86	5	121.08	5	5	5	5	5	5	5	5
1/4	1,925.24	1/4	1,562.41	1/4	1,199.99	1/4	839.12	1/4	476.30	1/4	113.56	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,917.68	1/2	1,554.85	1/2	1,192.48	1/2	831.56	1/2	468.74	1/2	106.04	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,910.13	3/4	1,547.29	3/4	1,184.97	3/4	824.00	3/4	461.18	3/4	98.51	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,902.57	6	1,539.73	6	1,177.47	6	816.45	6	453.62	6	90.99	6	6	6	6	6	6	6	6
1/4	1,895.01	1/4	1,532.17	1/4	1,169.96	1/4	808.89	1/4	446.06	1/4	84.06	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,887.45	1/2	1,524.61	1/2	1,162.45	1/2	801.33	1/2	438.51	1/2	77.14	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,879.89	3/4	1,517.05	3/4	1,154.94	3/4	793.77	3/4	430.95	3/4	70.21	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,872.33	7	1,509.49	7	1,147.44	7	786.21	7	423.39	7	63.28	7	7	7	7	7	7	7	7
1/4	1,864.77	1/4	1,501.93	1/4	1,139.93	1/4	778.65	1/4	415.83	1/4	57.61	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,857.21	1/2	1,494.38	1/2	1,132.42	1/2	771.09	1/2	408.27	1/2	51.95	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,849.65	3/4	1,486.82	3/4	1,124.92	3/4	763.53	3/4	400.71	3/4	46.28	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,842.09	8	1,479.26	8	1,117.41	8	755.98	8	393.15	8	40.61	8	8	8	8	8	8	8	8
1/4	1,834.53	1/4	1,471.70	1/4	1,109.90	1/4	748.42	1/4	385.59	1/4	36.20	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,826.98	1/2	1,464.14	1/2	1,102.39	1/2	740.86	1/2	378.04	1/2	31.79	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,819.42	3/4	1,456.58	3/4	1,094.89	3/4	733.30	3/4	370.48	3/4	27.38	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,811.86	9	1,449.02	9	1,087.38	9	725.74	9	362.92	9	22.98	9	9	9	9	9	9	9	9
1/4	1,804.30	1/4	1,441.46	1/4	1,079.87	1/4	718.18	1/4	355.36	1/4	18.57	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,796.74	1/2	1,433.90	1/2	1,072.36	1/2	710.62	1/2	347.80	1/2	14.16	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,789.18	3/4	1,426.34	3/4	1,064.86	3/4	703.06	3/4	340.24	3/4	9.75	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,781.62	10	1,418.78	10	1,057.35	10	695.50	10	332.68	10	6.34	10	10	10	10	10	10	10	10
1/4	1,774.06	1/4	1,411.23	1/4	1,049.84	1/4	687.95	1/4	325.12	1/4	1.93	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,766.50	1/2	1,403.67	1/2	1,042.33	1/2	680.39	1/2	317.56	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,758.94	3/4	1,396.11	3/4	1,034.83	3/4	672.83	3/4	310.01	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,751.38	11	1,388.55	11	1,027.32	11	665.27	11	302.45	11		11	11	11	11	11	11	11	11
1/4	1,743.83	1/4	1,380.99	1/4	1,019.81	1/4	657.71	1/4	294.89	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,736.27	1/2	1,373.43	1/2	1,012.31	1/2	650.15	1/2	287.33	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,728.71	3/4	1,365.87	3/4	1,004.80	3/4	642.59	3/4	279.77	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/16/2013 SW
CALCULATED: 08/16/2013 CL
PRINTED: 08/17/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2013

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "HBC 311"

2 PORT ULLAGE 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.			
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0		0	4,934.44	0	4,590.42	0	4,230.91	0	3,869.60	0	3,508.28	0	3,146.97	0	2,785.65	0	2,424.27		
1/4		1/4		1/4	4,927.46	1/4	4,583.05	1/4	4,223.39	1/4	3,862.07	1/4	3,500.76	1/4	3,139.44	1/4	2,778.13	1/4	2,416.74		
1/2		1/2	5,229.07	1/2	4,920.48	1/2	4,575.69	1/2	4,215.86	1/2	3,854.54	1/2	3,493.23	1/2	3,131.91	1/2	2,770.60	1/2	2,409.21		
3/4		3/4	5,224.75	3/4	4,913.48	3/4	4,568.29	3/4	4,208.33	3/4	3,847.02	3/4	3,485.70	3/4	3,124.39	3/4	2,763.07	3/4	2,401.68		
1		1	5,220.44	1	4,906.47	1	4,560.90	1	4,200.81	1	3,839.49	1	3,478.17	1	3,116.86	1	2,755.54	1	2,394.15		
1/4		1/4	5,216.12	1/4	4,899.46	1/4	4,553.51	1/4	4,193.28	1/4	3,831.96	1/4	3,470.65	1/4	3,109.33	1/4	2,748.02	1/4	2,386.62		
1/2		1/2	5,211.80	1/2	4,892.45	1/2	4,546.11	1/2	4,185.75	1/2	3,824.44	1/2	3,463.12	1/2	3,101.80	1/2	2,740.49	1/2	2,379.09		
3/4		3/4	5,206.25	3/4	4,885.42	3/4	4,538.69	3/4	4,178.22	3/4	3,816.91	3/4	3,455.59	3/4	3,094.28	3/4	2,732.96	3/4	2,371.56		
2		2	5,200.70	2	4,878.38	2	4,531.27	2	4,170.70	2	3,809.38	2	3,448.07	2	3,086.75	2	2,725.43	2	2,364.03		
1/4		1/4	5,195.16	1/4	4,871.34	1/4	4,523.84	1/4	4,163.17	1/4	3,801.85	1/4	3,440.54	1/4	3,079.22	1/4	2,717.91	1/4	2,356.50		
1/2		1/2	5,189.61	1/2	4,864.30	1/2	4,516.42	1/2	4,155.64	1/2	3,794.33	1/2	3,433.01	1/2	3,071.70	1/2	2,710.38	1/2	2,348.97		
3/4		3/4	5,183.60	3/4	4,857.24	3/4	4,508.97	3/4	4,148.11	3/4	3,786.80	3/4	3,425.48	3/4	3,064.17	3/4	2,702.85	3/4	2,341.44		
3		3	5,177.59	3	4,850.17	3	4,501.52	3	4,140.59	3	3,779.27	3	3,417.96	3	3,056.64	3	2,695.33	3	2,333.91		
1/4		1/4	5,171.58	1/4	4,843.10	1/4	4,494.06	1/4	4,133.06	1/4	3,771.74	1/4	3,410.43	1/4	3,049.11	1/4	2,687.80	1/4	2,326.38		
1/2		1/2	5,165.57	1/2	4,836.04	1/2	4,486.61	1/2	4,125.53	1/2	3,764.22	1/2	3,402.90	1/2	3,041.59	1/2	2,680.27	1/2	2,318.85		
3/4		3/4	5,158.93	3/4	4,828.94	3/4	4,479.13	3/4	4,118.00	3/4	3,756.69	3/4	3,395.37	3/4	3,034.06	3/4	2,672.74	3/4	2,311.32		
4		4	5,152.30	4	4,821.84	4	4,471.64	4	4,110.48	4	3,749.16	4	3,387.85	4	3,026.53	4	2,665.22	4	2,303.79		
1/4		1/4	5,145.66	1/4	4,814.75	1/4	4,464.16	1/4	4,102.95	1/4	3,741.63	1/4	3,380.32	1/4	3,019.00	1/4	2,657.69	1/4	2,296.26		
1/2		1/2	5,139.03	1/2	4,807.65	1/2	4,456.68	1/2	4,095.42	1/2	3,734.11	1/2	3,372.79	1/2	3,011.48	1/2	2,650.16	1/2	2,288.73		
3/4		3/4	5,132.34	3/4	4,800.52	3/4	4,449.17	3/4	4,087.89	3/4	3,726.58	3/4	3,365.26	3/4	3,003.95	3/4	2,642.63	3/4	2,281.20		
5		5	5,125.65	5	4,793.40	5	4,441.65	5	4,080.37	5	3,719.05	5	3,357.74	5	2,996.42	5	2,635.11	5	2,273.67		
1/4		1/4	5,118.96	1/4	4,786.27	1/4	4,434.14	1/4	4,072.84	1/4	3,711.52	1/4	3,350.21	1/4	2,988.89	1/4	2,627.58	1/4	2,266.14		
1/2		1/2	5,112.27	1/2	4,779.14	1/2	4,426.63	1/2	4,065.31	1/2	3,704.00	1/2	3,342.68	1/2	2,981.37	1/2	2,620.05	1/2	2,258.61		
3/4		3/4	5,105.54	3/4	4,771.99	3/4	4,419.10	3/4	4,057.78	3/4	3,696.47	3/4	3,335.15	3/4	2,973.84	3/4	2,612.52	3/4	2,251.08		
6		6	5,098.81	6	4,764.83	6	4,411.57	6	4,050.26	6	3,688.94	6	3,327.63	6	2,966.31	6	2,604.99	6	2,243.55		
1/4		1/4	5,092.08	1/4	4,757.67	1/4	4,404.05	1/4	4,042.73	1/4	3,681.41	1/4	3,320.10	1/4	2,958.78	1/4	2,597.46	1/4	2,236.02		
1/2		1/2	5,085.35	1/2	4,750.52	1/2	4,396.52	1/2	4,035.20	1/2	3,673.89	1/2	3,312.57	1/2	2,951.26	1/2	2,589.93	1/2	2,228.49		
3/4		3/4	5,078.59	3/4	4,743.33	3/4	4,388.99	3/4	4,027.68	3/4	3,666.36	3/4	3,305.04	3/4	2,943.73	3/4	2,582.40	3/4	2,220.96		
7		7	5,071.83	7	4,736.15	7	4,381.46	7	4,020.15	7	3,658.83	7	3,297.52	7	2,936.20	7	2,574.87	7	2,213.43		
1/4		1/4	5,065.07	1/4	4,728.96	1/4	4,373.94	1/4	4,012.62	1/4	3,651.31	1/4	3,289.99	1/4	2,928.67	1/4	2,567.34	1/4	2,205.90		
1/2		1/2	5,058.31	1/2	4,721.77	1/2	4,366.41	1/2	4,005.09	1/2	3,643.78	1/2	3,282.46	1/2	2,921.15	1/2	2,559.81	1/2	2,198.37		
3/4		3/4	5,051.52	3/4	4,714.53	3/4	4,358.88	3/4	3,997.57	3/4	3,636.25	3/4	3,274.94	3/4	2,913.62	3/4	2,552.28	3/4	2,190.84		
8		8	5,044.73	8	4,707.28	8	4,351.35	8	3,990.04	8	3,628.72	8	3,267.41	8	2,906.09	8	2,544.75	8	2,183.31		
1/4		1/4	5,037.94	1/4	4,700.04	1/4	4,343.83	1/4	3,982.51	1/4	3,621.20	1/4	3,259.88	1/4	2,898.57	1/4	2,537.22	1/4	2,175.78		
1/2		1/2	5,031.15	1/2	4,692.80	1/2	4,336.30	1/2	3,974.98	1/2	3,613.67	1/2	3,252.35	1/2	2,891.04	1/2	2,529.69	1/2	2,168.25		
3/4		3/4	5,024.34	3/4	4,685.52	3/4	4,328.77	3/4	3,967.46	3/4	3,606.14	3/4	3,244.83	3/4	2,883.51	3/4	2,522.16	3/4	2,160.72		
9		9	5,017.52	9	4,678.25	9	4,321.24	9	3,959.93	9	3,598.61	9	3,237.30	9	2,875.98	9	2,514.63	9	2,153.19		
1/4		1/4	5,010.70	1/4	4,670.97	1/4	4,313.72	1/4	3,952.40	1/4	3,591.09	1/4	3,229.77	1/4	2,868.46	1/4	2,507.10	1/4	2,145.66		
1/2		1/2	5,003.88	1/2	4,663.70	1/2	4,306.19	1/2	3,944.87	1/2	3,583.56	1/2	3,222.24	1/2	2,860.93	1/2	2,499.57	1/2	2,138.12		
3/4		3/4	4,996.96	3/4	4,656.39	3/4	4,298.66	3/4	3,937.35	3/4	3,576.03	3/4	3,214.72	3/4	2,853.40	3/4	2,492.04	3/4	2,130.59		
10		10	4,990.04	10	4,649.09	10	4,291.13	10	3,929.82	10	3,568.50	10	3,207.19	10	2,845.87	10	2,484.51	10	2,123.06		
1/4		1/4	4,983.12	1/4	4,641.78	1/4	4,283.61	1/4	3,922.29	1/4	3,560.98	1/4	3,199.66	1/4	2,838.35	1/4	2,476.98	1/4	2,115.53		
1/2		1/2	4,976.20	1/2	4,634.48	1/2	4,276.08	1/2	3,914.76	1/2	3,553.45	1/2	3,192.13	1/2	2,830.82	1/2	2,469.45	1/2	2,108.00		
3/4		3/4	4,969.24	3/4	4,627.15	3/4	4,268.55	3/4	3,907.24	3/4	3,545.92	3/4	3,184.61	3/4	2,823.29	3/4	2,461.92	3/4	2,100.47		
11		11	4,962.29	11	4,619.81	11	4,261.02	11	3,899.71	11	3,538.39	11	3,177.08	11	2,815.76	11	2,454.39	11	2,092.94		
1/4		1/4	4,955.34	1/4	4,612.48	1/4	4,253.50	1/4	3,892.18	1/4	3,530.87	1/4	3,169.55	1/4	2,808.24	1/4	2,446.86	1/4	2,085.41		
1/2		1/2	4,948.39	1/2	4,605.14	1/2	4,245.97	1/2	3,884.65	1/2	3,523.34	1/2	3,162.02	1/2	2,800.71	1/2	2,439.33	1/2	2,077.88		
3/4		3/4	4,941.42	3/4	4,597.78	3/4	4,238.44	3/4	3,877.13	3/4	3,515.81	3/4	3,154.50	3/4	2,793.18	3/4	2,431.80	3/4	2,070.35		

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

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

GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-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 311"

2 PORT ULLAGE 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.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	2,062.82	0	1,701.38	0	1,339.93	0	978.91	0	617.55	0	256.11	0		0		0		0	
1/4	2,055.29	1/4	1,693.85	1/4	1,332.40	1/4	971.39	1/4	610.02	1/4	248.58	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,047.76	1/2	1,686.32	1/2	1,324.87	1/2	963.87	1/2	602.49	1/2	241.05	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,040.23	3/4	1,678.79	3/4	1,317.34	3/4	956.35	3/4	594.96	3/4	233.52	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	2,032.70	1	1,671.26	1	1,309.81	1	948.84	1	587.43	1	225.99	1	1	1	1	1	1	1	1
1/4	2,025.17	1/4	1,663.73	1/4	1,302.28	1/4	941.32	1/4	579.90	1/4	218.46	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,017.64	1/2	1,656.20	1/2	1,294.75	1/2	933.80	1/2	572.37	1/2	210.93	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,010.11	3/4	1,648.67	3/4	1,287.22	3/4	926.27	3/4	564.84	3/4	203.40	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	2,002.58	2	1,641.14	2	1,279.69	2	918.74	2	557.31	2	195.87	2	2	2	2	2	2	2	2
1/4	1,995.05	1/4	1,633.61	1/4	1,272.16	1/4	911.21	1/4	549.78	1/4	188.34	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,987.52	1/2	1,626.08	1/2	1,264.63	1/2	903.68	1/2	542.25	1/2	180.81	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,979.99	3/4	1,618.55	3/4	1,257.10	3/4	896.15	3/4	534.72	3/4	173.28	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,972.46	3	1,611.02	3	1,249.57	3	888.62	3	527.19	3	165.75	3	3	3	3	3	3	3	3
1/4	1,964.93	1/4	1,603.49	1/4	1,242.04	1/4	881.09	1/4	519.66	1/4	158.23	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,957.40	1/2	1,595.96	1/2	1,234.51	1/2	873.56	1/2	512.13	1/2	150.70	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,949.87	3/4	1,588.43	3/4	1,227.00	3/4	866.03	3/4	504.60	3/4	143.18	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,942.34	4	1,580.90	4	1,219.48	4	858.50	4	497.07	4	135.66	4	4	4	4	4	4	4	4
1/4	1,934.81	1/4	1,573.37	1/4	1,211.96	1/4	850.97	1/4	489.54	1/4	128.14	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,927.28	1/2	1,565.84	1/2	1,204.44	1/2	843.44	1/2	482.01	1/2	120.62	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,919.75	3/4	1,558.31	3/4	1,196.92	3/4	835.91	3/4	474.48	3/4	113.12	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,912.22	5	1,550.78	5	1,189.41	5	828.38	5	466.95	5	105.63	5	5	5	5	5	5	5	5
1/4	1,904.69	1/4	1,543.25	1/4	1,181.89	1/4	820.85	1/4	459.42	1/4	98.14	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,897.16	1/2	1,535.72	1/2	1,174.37	1/2	813.32	1/2	451.89	1/2	90.64	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,889.63	3/4	1,528.19	3/4	1,166.85	3/4	805.79	3/4	444.36	3/4	83.74	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,882.10	6	1,520.66	6	1,159.33	6	798.26	6	436.83	6	76.84	6	6	6	6	6	6	6	6
1/4	1,874.57	1/4	1,513.13	1/4	1,151.82	1/4	790.73	1/4	429.30	1/4	69.94	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,867.04	1/2	1,505.60	1/2	1,144.30	1/2	783.20	1/2	421.77	1/2	63.04	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,859.51	3/4	1,498.07	3/4	1,136.78	3/4	775.67	3/4	414.24	3/4	57.39	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,851.98	7	1,490.54	7	1,129.26	7	768.14	7	406.71	7	51.75	7	7	7	7	7	7	7	7
1/4	1,844.45	1/4	1,483.01	1/4	1,121.75	1/4	760.61	1/4	399.18	1/4	46.10	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,836.92	1/2	1,475.48	1/2	1,114.23	1/2	753.08	1/2	391.65	1/2	40.45	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,829.39	3/4	1,467.95	3/4	1,106.71	3/4	745.55	3/4	384.12	3/4	36.06	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,821.86	8	1,460.42	8	1,099.19	8	738.02	8	376.59	8	31.67	8	8	8	8	8	8	8	8
1/4	1,814.33	1/4	1,452.89	1/4	1,091.67	1/4	730.49	1/4	369.06	1/4	27.28	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,806.80	1/2	1,445.36	1/2	1,084.16	1/2	722.96	1/2	361.53	1/2	22.89	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,799.27	3/4	1,437.83	3/4	1,076.64	3/4	715.43	3/4	354.00	3/4	18.50	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,791.74	9	1,430.30	9	1,069.12	9	707.90	9	346.47	9	14.11	9	9	9	9	9	9	9	9
1/4	1,784.21	1/4	1,422.77	1/4	1,061.60	1/4	700.37	1/4	338.94	1/4	9.72	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,776.68	1/2	1,415.24	1/2	1,054.09	1/2	692.84	1/2	331.41	1/2	5.33	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,769.15	3/4	1,407.71	3/4	1,046.57	3/4	685.31	3/4	323.88	3/4	0.94	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,761.62	10	1,400.18	10	1,039.05	10	677.78	10	316.35	10	0.55	10	10	10	10	10	10	10	10
1/4	1,754.09	1/4	1,392.65	1/4	1,031.53	1/4	670.25	1/4	308.82	1/4	0.16	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,746.56	1/2	1,385.11	1/2	1,024.01	1/2	662.72	1/2	301.29	1/2	0.00	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,739.03	3/4	1,377.58	3/4	1,016.50	3/4	655.19	3/4	293.76	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,731.50	11	1,370.05	11	1,008.98	11	647.66	11	286.23	11	0.00	11	11	11	11	11	11	11	11
1/4	1,723.97	1/4	1,362.52	1/4	1,001.46	1/4	640.13	1/4	278.70	1/4	0.00	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,716.44	1/2	1,354.99	1/2	993.94	1/2	632.60	1/2	271.17	1/2	0.00	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,708.91	3/4	1,347.46	3/4	986.43	3/4	625.08	3/4	263.64	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/16/2013 SW
CALCULATED: 08/16/2013 CL
PRINTED: 08/17/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2013

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



BARGE "HBC 311"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0	4,923.75	0	4,580.24	0	4,221.03	0	3,859.85	0	3,498.67	0	3,137.49	0	2,776.31	0	2,415.05
1/4		1/4		1/4	4,916.77	1/4	4,572.87	1/4	4,213.51	1/4	3,852.33	1/4	3,491.14	1/4	3,129.96	1/4	2,768.78	1/4	2,407.53
1/2		1/2		1/2	4,909.80	1/2	4,565.51	1/2	4,205.98	1/2	3,844.80	1/2	3,483.62	1/2	3,122.44	1/2	2,761.26	1/2	2,400.00
3/4		3/4	5,211.31	3/4	4,902.82	3/4	4,558.15	3/4	4,198.46	3/4	3,837.28	3/4	3,476.10	3/4	3,114.91	3/4	2,753.73	3/4	2,392.47
1		1	5,206.99	1	4,895.82	1	4,550.76	1	4,190.93	1	3,829.75	1	3,468.57	1	3,107.39	1	2,746.21	1	2,384.94
1/4		1/4	5,202.67	1/4	4,888.81	1/4	4,543.37	1/4	4,183.41	1/4	3,822.23	1/4	3,461.05	1/4	3,099.87	1/4	2,738.68	1/4	2,377.42
1/2		1/2	5,198.35	1/2	4,881.81	1/2	4,535.98	1/2	4,175.88	1/2	3,814.70	1/2	3,453.52	1/2	3,092.34	1/2	2,731.16	1/2	2,369.89
3/4		3/4	5,194.03	3/4	4,874.80	3/4	4,528.59	3/4	4,168.36	3/4	3,807.18	3/4	3,446.00	3/4	3,084.82	3/4	2,723.64	3/4	2,362.36
2		2	5,188.49	2	4,867.77	2	4,521.17	2	4,160.83	2	3,799.65	2	3,438.47	2	3,077.29	2	2,716.11	2	2,354.83
1/4		1/4	5,182.95	1/4	4,860.73	1/4	4,513.75	1/4	4,153.31	1/4	3,792.13	1/4	3,430.95	1/4	3,069.77	1/4	2,708.59	1/4	2,347.31
1/2		1/2	5,177.40	1/2	4,853.70	1/2	4,506.33	1/2	4,145.78	1/2	3,784.60	1/2	3,423.42	1/2	3,062.24	1/2	2,701.06	1/2	2,339.78
3/4		3/4	5,171.86	3/4	4,846.66	3/4	4,498.91	3/4	4,138.26	3/4	3,777.08	3/4	3,415.90	3/4	3,054.72	3/4	2,693.54	3/4	2,332.25
3		3	5,165.85	3	4,839.60	3	4,491.46	3	4,130.74	3	3,769.55	3	3,408.37	3	3,047.19	3	2,686.01	3	2,324.72
1/4		1/4	5,159.84	1/4	4,832.53	1/4	4,484.01	1/4	4,123.21	1/4	3,762.03	1/4	3,400.85	1/4	3,039.67	1/4	2,678.49	1/4	2,317.20
1/2		1/2	5,153.83	1/2	4,825.47	1/2	4,476.56	1/2	4,115.69	1/2	3,754.51	1/2	3,393.32	1/2	3,032.14	1/2	2,670.96	1/2	2,309.67
3/4		3/4	5,147.82	3/4	4,818.41	3/4	4,469.10	3/4	4,108.16	3/4	3,746.98	3/4	3,385.80	3/4	3,024.62	3/4	2,663.44	3/4	2,302.14
4		4	5,141.19	4	4,811.31	4	4,461.62	4	4,100.64	4	3,739.46	4	3,378.28	4	3,017.09	4	2,655.91	4	2,294.61
1/4		1/4	5,134.56	1/4	4,804.22	1/4	4,454.14	1/4	4,093.11	1/4	3,731.93	1/4	3,370.75	1/4	3,009.57	1/4	2,648.39	1/4	2,287.09
1/2		1/2	5,127.92	1/2	4,797.12	1/2	4,446.66	1/2	4,085.59	1/2	3,724.41	1/2	3,363.23	1/2	3,002.05	1/2	2,640.86	1/2	2,279.56
3/4		3/4	5,121.29	3/4	4,790.03	3/4	4,439.18	3/4	4,078.06	3/4	3,716.88	3/4	3,355.70	3/4	2,994.52	3/4	2,633.34	3/4	2,272.03
5		5	5,114.60	5	4,782.91	5	4,431.68	5	4,070.54	5	3,709.36	5	3,348.18	5	2,987.00	5	2,625.82	5	2,264.50
1/4		1/4	5,107.92	1/4	4,775.78	1/4	4,424.17	1/4	4,063.01	1/4	3,701.83	1/4	3,340.65	1/4	2,979.47	1/4	2,618.29	1/4	2,256.98
1/2		1/2	5,101.23	1/2	4,768.66	1/2	4,416.66	1/2	4,055.49	1/2	3,694.31	1/2	3,333.13	1/2	2,971.95	1/2	2,610.77	1/2	2,249.45
3/4		3/4	5,094.54	3/4	4,761.53	3/4	4,409.15	3/4	4,047.96	3/4	3,686.78	3/4	3,325.60	3/4	2,964.42	3/4	2,603.24	3/4	2,241.92
6		6	5,087.81	6	4,754.38	6	4,401.62	6	4,040.44	6	3,679.26	6	3,318.08	6	2,956.90	6	2,595.71	6	2,234.39
1/4		1/4	5,081.09	1/4	4,747.23	1/4	4,394.10	1/4	4,032.92	1/4	3,671.73	1/4	3,310.55	1/4	2,949.37	1/4	2,588.19	1/4	2,226.87
1/2		1/2	5,074.36	1/2	4,740.07	1/2	4,386.57	1/2	4,025.39	1/2	3,664.21	1/2	3,303.03	1/2	2,941.85	1/2	2,580.66	1/2	2,219.34
3/4		3/4	5,067.63	3/4	4,732.92	3/4	4,379.05	3/4	4,017.87	3/4	3,656.69	3/4	3,295.50	3/4	2,934.32	3/4	2,573.13	3/4	2,211.81
7		7	5,060.88	7	4,725.74	7	4,371.52	7	4,010.34	7	3,649.16	7	3,287.98	7	2,926.80	7	2,565.60	7	2,204.28
1/4		1/4	5,054.12	1/4	4,718.55	1/4	4,364.00	1/4	4,002.82	1/4	3,641.64	1/4	3,280.46	1/4	2,919.27	1/4	2,558.08	1/4	2,196.76
1/2		1/2	5,047.36	1/2	4,711.37	1/2	4,356.47	1/2	3,995.29	1/2	3,634.11	1/2	3,272.93	1/2	2,911.75	1/2	2,550.55	1/2	2,189.23
3/4		3/4	5,040.60	3/4	4,704.19	3/4	4,348.95	3/4	3,987.77	3/4	3,626.59	3/4	3,265.41	3/4	2,904.23	3/4	2,543.02	3/4	2,181.70
8		8	5,033.82	8	4,696.94	8	4,341.42	8	3,980.24	8	3,619.06	8	3,257.88	8	2,896.70	8	2,535.49	8	2,174.17
1/4		1/4	5,027.03	1/4	4,689.70	1/4	4,333.90	1/4	3,972.72	1/4	3,611.54	1/4	3,250.36	1/4	2,889.18	1/4	2,527.97	1/4	2,166.65
1/2		1/2	5,020.24	1/2	4,682.46	1/2	4,326.38	1/2	3,965.19	1/2	3,604.01	1/2	3,242.83	1/2	2,881.65	1/2	2,520.44	1/2	2,159.12
3/4		3/4	5,013.46	3/4	4,675.22	3/4	4,318.85	3/4	3,957.67	3/4	3,596.49	3/4	3,235.31	3/4	2,874.13	3/4	2,512.91	3/4	2,151.59
9		9	5,006.64	9	4,667.94	9	4,311.33	9	3,950.15	9	3,588.96	9	3,227.78	9	2,866.60	9	2,505.38	9	2,144.06
1/4		1/4	4,999.82	1/4	4,660.67	1/4	4,303.80	1/4	3,942.62	1/4	3,581.44	1/4	3,220.26	1/4	2,859.08	1/4	2,497.86	1/4	2,136.54
1/2		1/2	4,993.01	1/2	4,653.40	1/2	4,296.28	1/2	3,935.10	1/2	3,573.92	1/2	3,212.73	1/2	2,851.55	1/2	2,490.33	1/2	2,129.01
3/4		3/4	4,986.19	3/4	4,646.13	3/4	4,288.75	3/4	3,927.57	3/4	3,566.39	3/4	3,205.21	3/4	2,844.03	3/4	2,482.80	3/4	2,121.48
10		10	4,979.27	10	4,638.83	10	4,281.23	10	3,920.05	10	3,558.87	10	3,197.69	10	2,836.50	10	2,475.27	10	2,113.95
1/4		1/4	4,972.35	1/4	4,631.53	1/4	4,273.70	1/4	3,912.52	1/4	3,551.34	1/4	3,190.16	1/4	2,828.98	1/4	2,467.75	1/4	2,106.43
1/2		1/2	4,965.43	1/2	4,624.22	1/2	4,266.18	1/2	3,905.00	1/2	3,543.82	1/2	3,182.64	1/2	2,821.46	1/2	2,460.22	1/2	2,098.90
3/4		3/4	4,958.52	3/4	4,616.92	3/4	4,258.65	3/4	3,897.47	3/4	3,536.29	3/4	3,175.11	3/4	2,813.93	3/4	2,452.69	3/4	2,091.37
11		11	4,951.57	11	4,609.59	11	4,251.13	11	3,889.95	11	3,528.77	11	3,167.59	11	2,806.41	11	2,445.16	11	2,083.84
1/4		1/4	4,944.62	1/4	4,602.26	1/4	4,243.60	1/4	3,882.42	1/4	3,521.24	1/4	3,160.06	1/4	2,798.88	1/4	2,437.64	1/4	2,076.32
1/2		1/2	4,937.67	1/2	4,594.93	1/2	4,236.08	1/2	3,874.90	1/2	3,513.72	1/2	3,152.54	1/2	2,791.36	1/2	2,430.11	1/2	2,068.79
3/4		3/4	4,930.72	3/4	4,587.60	3/4	4,228.56	3/4	3,867.37	3/4	3,506.19	3/4	3,145.01	3/4	2,783.83	3/4	2,422.58	3/4	2,061.26

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" HERMETIC CLOSED GAUGING VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-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 311"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 3/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	2,053.73	0	1,692.41	0	1,331.09	0	982.42	0	624.85	0	263.54	0		0		0		0	
1/4	2,046.21	1/4	1,684.89	1/4	1,323.57	1/4	975.24	1/4	617.32	1/4	256.02	1/4		1/4		1/4		1/4	
1/2	2,038.68	1/2	1,677.36	1/2	1,316.04	1/2	968.06	1/2	609.80	1/2	248.49	1/2		1/2		1/2		1/2	
3/4	2,031.15	3/4	1,669.83	3/4	1,308.51	3/4	960.87	3/4	602.27	3/4	240.96	3/4		3/4		3/4		3/4	
1	2,023.62	1	1,662.30	1	1,300.98	1	953.69	1	594.74	1	233.44	1		1		1		1	
1/4	2,016.10	1/4	1,654.78	1/4	1,293.46	1/4	946.50	1/4	587.21	1/4	225.91	1/4		1/4		1/4		1/4	
1/2	2,008.57	1/2	1,647.25	1/2	1,285.93	1/2	939.32	1/2	579.69	1/2	218.38	1/2		1/2		1/2		1/2	
3/4	2,001.04	3/4	1,639.72	3/4	1,278.40	3/4	932.13	3/4	572.16	3/4	210.85	3/4		3/4		3/4		3/4	
2	1,993.51	2	1,632.19	2	1,270.87	2	924.94	2	564.63	2	203.33	2		2		2		2	
1/4	1,985.99	1/4	1,624.67	1/4	1,263.35	1/4	917.75	1/4	557.11	1/4	195.80	1/4		1/4		1/4		1/4	
1/2	1,978.46	1/2	1,617.14	1/2	1,255.82	1/2	910.55	1/2	549.58	1/2	188.27	1/2		1/2		1/2		1/2	
3/4	1,970.93	3/4	1,609.61	3/4	1,248.29	3/4	903.36	3/4	542.05	3/4	180.75	3/4		3/4		3/4		3/4	
3	1,963.40	3	1,602.08	3	1,241.09	3	895.83	3	534.52	3	173.22	3		3		3		3	
1/4	1,955.88	1/4	1,594.56	1/4	1,233.90	1/4	888.30	1/4	527.00	1/4	165.69	1/4		1/4		1/4		1/4	
1/2	1,948.35	1/2	1,587.03	1/2	1,226.70	1/2	880.77	1/2	519.47	1/2	158.17	1/2		1/2		1/2		1/2	
3/4	1,940.82	3/4	1,579.50	3/4	1,219.50	3/4	873.25	3/4	511.94	3/4	150.64	3/4		3/4		3/4		3/4	
4	1,933.29	4	1,571.97	4	1,212.32	4	865.72	4	504.41	4	143.12	4		4		4		4	
1/4	1,925.77	1/4	1,564.45	1/4	1,205.13	1/4	858.19	1/4	496.89	1/4	135.61	1/4		1/4		1/4		1/4	
1/2	1,918.24	1/2	1,556.92	1/2	1,197.95	1/2	850.67	1/2	489.36	1/2	128.09	1/2		1/2		1/2		1/2	
3/4	1,910.71	3/4	1,549.39	3/4	1,190.77	3/4	843.14	3/4	481.83	3/4	120.57	3/4		3/4		3/4		3/4	
5	1,903.18	5	1,541.86	5	1,183.58	5	835.61	5	474.31	5	113.08	5		5		5		5	
1/4	1,895.66	1/4	1,534.34	1/4	1,176.40	1/4	828.08	1/4	466.78	1/4	105.59	1/4		1/4		1/4		1/4	
1/2	1,888.13	1/2	1,526.81	1/2	1,169.21	1/2	820.56	1/2	459.25	1/2	98.10	1/2		1/2		1/2		1/2	
3/4	1,880.60	3/4	1,519.28	3/4	1,162.03	3/4	813.03	3/4	451.72	3/4	90.61	3/4		3/4		3/4		3/4	
6	1,873.07	6	1,511.75	6	1,154.84	6	805.50	6	444.20	6	83.71	6		6		6		6	
1/4	1,865.55	1/4	1,504.23	1/4	1,147.66	1/4	797.98	1/4	436.67	1/4	76.81	1/4		1/4		1/4		1/4	
1/2	1,858.02	1/2	1,496.70	1/2	1,140.48	1/2	790.45	1/2	429.14	1/2	69.92	1/2		1/2		1/2		1/2	
3/4	1,850.49	3/4	1,489.17	3/4	1,133.29	3/4	782.92	3/4	421.62	3/4	63.02	3/4		3/4		3/4		3/4	
7	1,842.96	7	1,481.64	7	1,126.11	7	775.39	7	414.09	7	57.37	7		7		7		7	
1/4	1,835.44	1/4	1,474.12	1/4	1,118.92	1/4	767.87	1/4	406.56	1/4	51.73	1/4		1/4		1/4		1/4	
1/2	1,827.91	1/2	1,466.59	1/2	1,111.74	1/2	760.34	1/2	399.03	1/2	46.08	1/2		1/2		1/2		1/2	
3/4	1,820.38	3/4	1,459.06	3/4	1,104.55	3/4	752.81	3/4	391.51	3/4	40.44	3/4		3/4		3/4		3/4	
8	1,812.85	8	1,451.53	8	1,097.37	8	745.29	8	383.98	8	36.05	8		8		8		8	
1/4	1,805.33	1/4	1,444.01	1/4	1,090.19	1/4	737.76	1/4	376.45	1/4	31.66	1/4		1/4		1/4		1/4	
1/2	1,797.80	1/2	1,436.48	1/2	1,083.00	1/2	730.23	1/2	368.93	1/2	27.27	1/2		1/2		1/2		1/2	
3/4	1,790.27	3/4	1,428.95	3/4	1,075.82	3/4	722.70	3/4	361.40	3/4	22.88	3/4		3/4		3/4		3/4	
9	1,782.74	9	1,421.42	9	1,068.63	9	715.18	9	353.87	9		9		9		9		9	
1/4	1,775.22	1/4	1,413.90	1/4	1,061.45	1/4	707.65	1/4	346.34	1/4		1/4		1/4		1/4		1/4	
1/2	1,767.69	1/2	1,406.37	1/2	1,054.27	1/2	700.12	1/2	338.82	1/2		1/2		1/2		1/2		1/2	
3/4	1,760.16	3/4	1,398.84	3/4	1,047.08	3/4	692.59	3/4	331.29	3/4		3/4		3/4		3/4		3/4	
10	1,752.63	10	1,391.31	10	1,039.90	10	685.07	10	323.76	10		10		10		10		10	
1/4	1,745.11	1/4	1,383.79	1/4	1,032.71	1/4	677.54	1/4	316.23	1/4		1/4		1/4		1/4		1/4	
1/2	1,737.58	1/2	1,376.26	1/2	1,025.53	1/2	670.01	1/2	308.71	1/2		1/2		1/2		1/2		1/2	
3/4	1,730.05	3/4	1,368.73	3/4	1,018.34	3/4	662.49	3/4	301.18	3/4		3/4		3/4		3/4		3/4	
11	1,722.52	11	1,361.20	11	1,011.16	11	654.96	11	293.65	11		11		11		11		11	
1/4	1,715.00	1/4	1,353.68	1/4	1,003.98	1/4	647.43	1/4	286.13	1/4		1/4		1/4		1/4		1/4	
1/2	1,707.47	1/2	1,346.15	1/2	996.79	1/2	639.90	1/2	278.60	1/2		1/2		1/2		1/2		1/2	
3/4	1,699.94	3/4	1,338.62	3/4	989.61	3/4	632.38	3/4	271.07	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/16/2013 SW
CALCULATED: 08/16/2013 CL
PRINTED: 08/17/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2013

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



BARGE "HBC 311"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0	4,261.64	0	4,077.67	0	3,885.36	0	3,691.99	0	3,495.20	0	3,137.63	0	2,778.79	0	2,419.31
1/4		1/4		1/4	4,257.90	1/4	4,073.73	1/4	3,881.33	1/4	3,687.96	1/4	3,487.74	1/4	3,130.15	1/4	2,771.30	1/4	2,411.82
1/2		1/2		1/2	4,254.17	1/2	4,069.79	1/2	3,877.30	1/2	3,683.94	1/2	3,480.28	1/2	3,122.68	1/2	2,763.81	1/2	2,404.33
3/4		3/4	4,405.14	3/4	4,250.43	3/4	4,065.85	3/4	3,873.28	3/4	3,679.91	3/4	3,472.83	3/4	3,115.20	3/4	2,756.32	3/4	2,396.84
1		1	4,404.27	1	4,246.68	1	4,061.89	1	3,869.25	1	3,675.88	1	3,465.37	1	3,107.72	1	2,748.83	1	2,389.35
1/4		1/4	4,403.40	1/4	4,242.92	1/4	4,057.94	1/4	3,865.22	1/4	3,671.85	1/4	3,457.91	1/4	3,100.25	1/4	2,741.34	1/4	2,381.87
1/2		1/2	4,402.53	1/2	4,239.17	1/2	4,053.98	1/2	3,861.19	1/2	3,667.82	1/2	3,450.46	1/2	3,092.77	1/2	2,733.85	1/2	2,374.38
3/4		3/4	4,401.66	3/4	4,235.42	3/4	4,050.02	3/4	3,857.16	3/4	3,663.79	3/4	3,443.00	3/4	3,085.30	3/4	2,726.37	3/4	2,366.89
2		2	4,399.56	2	4,231.65	2	4,046.05	2	3,853.13	2	3,659.77	2	3,435.54	2	3,077.82	2	2,718.88	2	2,359.40
1/4		1/4	4,397.46	1/4	4,227.88	1/4	4,042.08	1/4	3,849.10	1/4	3,655.74	1/4	3,428.08	1/4	3,070.35	1/4	2,711.39	1/4	2,351.91
1/2		1/2	4,395.36	1/2	4,224.12	1/2	4,038.10	1/2	3,845.08	1/2	3,651.71	1/2	3,420.63	1/2	3,062.87	1/2	2,703.90	1/2	2,344.42
3/4		3/4	4,393.25	3/4	4,220.35	3/4	4,034.13	3/4	3,841.05	3/4	3,647.68	3/4	3,413.17	3/4	3,055.40	3/4	2,696.41	3/4	2,336.93
3		3	4,390.32	3	4,216.57	3	4,030.14	3	3,837.02	3	3,643.65	3	3,405.71	3	3,047.92	3	2,688.92	3	2,329.44
1/4		1/4	4,387.39	1/4	4,212.78	1/4	4,026.15	1/4	3,832.99	1/4	3,639.62	1/4	3,398.26	1/4	3,040.44	1/4	2,681.44	1/4	2,321.95
1/2		1/2	4,384.46	1/2	4,209.00	1/2	4,022.16	1/2	3,828.96	1/2	3,635.59	1/2	3,390.80	1/2	3,032.97	1/2	2,673.95	1/2	2,314.46
3/4		3/4	4,381.53	3/4	4,205.21	3/4	4,018.17	3/4	3,824.93	3/4	3,631.57	3/4	3,383.34	3/4	3,025.49	3/4	2,666.46	3/4	2,306.97
4		4	4,378.00	4	4,201.41	4	4,014.17	4	3,820.91	4	3,627.54	4	3,375.89	4	3,018.02	4	2,658.97	4	2,299.48
1/4		1/4	4,374.46	1/4	4,197.61	1/4	4,010.17	1/4	3,816.88	1/4	3,623.51	1/4	3,368.43	1/4	3,010.54	1/4	2,651.48	1/4	2,291.99
1/2		1/2	4,370.93	1/2	4,193.82	1/2	4,006.16	1/2	3,812.85	1/2	3,619.48	1/2	3,360.97	1/2	3,003.07	1/2	2,643.99	1/2	2,284.50
3/4		3/4	4,367.39	3/4	4,190.02	3/4	4,002.16	3/4	3,808.82	3/4	3,615.45	3/4	3,353.52	3/4	2,995.59	3/4	2,636.51	3/4	2,277.01
5		5	4,363.82	5	4,186.20	5	3,998.14	5	3,804.79	5	3,611.42	5	3,346.06	5	2,988.12	5	2,629.02	5	2,269.52
1/4		1/4	4,360.24	1/4	4,182.38	1/4	3,994.11	1/4	3,800.76	1/4	3,607.39	1/4	3,338.60	1/4	2,980.64	1/4	2,621.53	1/4	2,262.03
1/2		1/2	4,356.66	1/2	4,178.57	1/2	3,990.09	1/2	3,796.73	1/2	3,603.37	1/2	3,331.14	1/2	2,973.17	1/2	2,614.04	1/2	2,254.54
3/4		3/4	4,353.09	3/4	4,174.75	3/4	3,986.07	3/4	3,792.71	3/4	3,599.34	3/4	3,323.69	3/4	2,965.69	3/4	2,606.55	3/4	2,247.05
6		6	4,349.49	6	4,170.92	6	3,982.05	6	3,788.68	6	3,595.31	6	3,316.25	6	2,958.21	6	2,599.06	6	2,239.56
1/4		1/4	4,345.88	1/4	4,167.09	1/4	3,978.02	1/4	3,784.65	1/4	3,591.28	1/4	3,308.81	1/4	2,950.74	1/4	2,591.57	1/4	2,232.07
1/2		1/2	4,342.28	1/2	4,163.26	1/2	3,973.99	1/2	3,780.62	1/2	3,587.25	1/2	3,301.36	1/2	2,943.26	1/2	2,584.08	1/2	2,224.58
3/4		3/4	4,338.68	3/4	4,159.43	3/4	3,969.96	3/4	3,776.59	3/4	3,583.22	3/4	3,293.92	3/4	2,935.79	3/4	2,576.59	3/4	2,217.09
7		7	4,335.06	7	4,155.58	7	3,965.93	7	3,772.56	7	3,579.20	7	3,286.48	7	2,928.31	7	2,569.11	7	2,209.60
1/4		1/4	4,331.45	1/4	4,151.73	1/4	3,961.90	1/4	3,768.53	1/4	3,575.17	1/4	3,279.04	1/4	2,920.84	1/4	2,561.62	1/4	2,202.11
1/2		1/2	4,327.83	1/2	4,147.89	1/2	3,957.87	1/2	3,764.51	1/2	3,571.14	1/2	3,271.60	1/2	2,913.36	1/2	2,554.13	1/2	2,194.63
3/4		3/4	4,324.21	3/4	4,144.04	3/4	3,953.85	3/4	3,760.48	3/4	3,567.11	3/4	3,264.16	3/4	2,905.89	3/4	2,546.64	3/4	2,187.14
8		8	4,320.57	8	4,140.16	8	3,949.82	8	3,756.45	8	3,563.08	8	3,256.72	8	2,898.41	8	2,539.15	8	2,179.65
1/4		1/4	4,316.94	1/4	4,136.28	1/4	3,945.79	1/4	3,752.42	1/4	3,559.05	1/4	3,249.28	1/4	2,890.93	1/4	2,531.66	1/4	2,172.16
1/2		1/2	4,313.31	1/2	4,132.41	1/2	3,941.76	1/2	3,748.39	1/2	3,555.02	1/2	3,241.84	1/2	2,883.46	1/2	2,524.17	1/2	2,164.67
3/4		3/4	4,309.67	3/4	4,128.53	3/4	3,937.73	3/4	3,744.36	3/4	3,551.00	3/4	3,234.39	3/4	2,875.98	3/4	2,516.68	3/4	2,157.18
9		9	4,306.02	9	4,124.63	9	3,933.70	9	3,740.34	9	3,546.97	9	3,226.95	9	2,868.51	9	2,509.19	9	2,149.69
1/4		1/4	4,302.37	1/4	4,120.74	1/4	3,929.67	1/4	3,736.31	1/4	3,542.94	1/4	3,219.51	1/4	2,861.03	1/4	2,501.70	1/4	2,142.20
1/2		1/2	4,298.72	1/2	4,116.85	1/2	3,925.65	1/2	3,732.28	1/2	3,538.91	1/2	3,212.07	1/2	2,853.56	1/2	2,494.21	1/2	2,134.71
3/4		3/4	4,295.07	3/4	4,112.95	3/4	3,921.62	3/4	3,728.25	3/4	3,534.88	3/4	3,204.63	3/4	2,846.08	3/4	2,486.72	3/4	2,127.22
10		10	4,291.37	10	4,109.04	10	3,917.59	10	3,724.22	10	3,530.85	10	3,197.19	10	2,838.61	10	2,479.23	10	2,119.73
1/4		1/4	4,287.66	1/4	4,105.13	1/4	3,913.56	1/4	3,720.19	1/4	3,526.82	1/4	3,189.75	1/4	2,831.13	1/4	2,471.74	1/4	2,112.24
1/2		1/2	4,283.96	1/2	4,101.23	1/2	3,909.53	1/2	3,716.16	1/2	3,522.80	1/2	3,182.31	1/2	2,823.66	1/2	2,464.25	1/2	2,104.75
3/4		3/4	4,280.25	3/4	4,097.32	3/4	3,905.50	3/4	3,712.14	3/4	3,518.77	3/4	3,174.87	3/4	2,816.18	3/4	2,456.76	3/4	2,097.26
11		11	4,276.53	11	4,093.39	11	3,901.48	11	3,708.11	11	3,514.74	11	3,167.42	11	2,808.70	11	2,449.27	11	2,089.77
1/4		1/4	4,272.81	1/4	4,089.47	1/4	3,897.45	1/4	3,704.08	1/4	3,510.71	1/4	3,159.98	1/4	2,801.23	1/4	2,441.78	1/4	2,082.28
1/2		1/2	4,269.09	1/2	4,085.54	1/2	3,893.42	1/2	3,700.05	1/2	3,506.68	1/2	3,152.54	1/2	2,793.75	1/2	2,434.29	1/2	2,074.79
3/4		3/4	4,265.37	3/4	4,081.61	3/4	3,889.39	3/4	3,696.02	3/4	3,502.65	3/4	3,145.10	3/4	2,786.28	3/4	2,426.80	3/4	2,067.30

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO 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 311"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 3/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	2,059.81	0	1,700.23	0	1,340.64	0	981.34	0	621.86	0	262.29	0		0		0		0	
1/4	2,052.32	1/4	1,692.74	1/4	1,333.15	1/4	973.86	1/4	614.37	1/4	254.79	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,044.83	1/2	1,685.25	1/2	1,325.66	1/2	966.38	1/2	606.88	1/2	247.30	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,037.34	3/4	1,677.76	3/4	1,318.17	3/4	958.90	3/4	599.39	3/4	239.81	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	2,029.85	1	1,670.27	1	1,310.68	1	951.41	1	591.89	1	232.32	1	1	1	1	1	1	1	1
1/4	2,022.36	1/4	1,662.77	1/4	1,303.19	1/4	943.93	1/4	584.40	1/4	224.83	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,014.87	1/2	1,655.28	1/2	1,295.70	1/2	936.45	1/2	576.91	1/2	217.34	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,007.38	3/4	1,647.79	3/4	1,288.20	3/4	928.97	3/4	569.42	3/4	209.85	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,999.89	2	1,640.30	2	1,280.71	2	921.48	2	561.93	2	202.36	2	2	2	2	2	2	2	2
1/4	1,992.40	1/4	1,632.81	1/4	1,273.22	1/4	914.00	1/4	554.44	1/4	194.87	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,984.90	1/2	1,625.32	1/2	1,265.73	1/2	906.51	1/2	546.95	1/2	187.37	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,977.41	3/4	1,617.83	3/4	1,258.24	3/4	899.03	3/4	539.46	3/4	179.88	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,969.92	3	1,610.33	3	1,250.75	3	891.54	3	531.97	3	172.39	3	3	3	3	3	3	3	3
1/4	1,962.43	1/4	1,602.84	1/4	1,243.26	1/4	884.05	1/4	524.47	1/4	164.90	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,954.94	1/2	1,595.35	1/2	1,235.76	1/2	876.56	1/2	516.98	1/2	157.41	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,947.45	3/4	1,587.86	3/4	1,228.27	3/4	869.06	3/4	509.49	3/4	149.92	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,939.96	4	1,580.37	4	1,220.78	4	861.57	4	502.00	4	142.44	4	4	4	4	4	4	4	4
1/4	1,932.46	1/4	1,572.88	1/4	1,213.30	1/4	854.08	1/4	494.51	1/4	134.96	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,924.97	1/2	1,565.39	1/2	1,205.81	1/2	846.59	1/2	487.02	1/2	127.48	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,917.48	3/4	1,557.89	3/4	1,198.32	3/4	839.10	3/4	479.53	3/4	120.00	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,909.99	5	1,550.40	5	1,190.84	5	831.61	5	472.04	5	112.55	5	5	5	5	5	5	5	5
1/4	1,902.50	1/4	1,542.91	1/4	1,183.36	1/4	824.12	1/4	464.55	1/4	105.09	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,895.01	1/2	1,535.42	1/2	1,175.87	1/2	816.63	1/2	457.05	1/2	97.63	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,887.52	3/4	1,527.93	3/4	1,168.39	3/4	809.14	3/4	449.56	3/4	90.18	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,880.02	6	1,520.44	6	1,160.91	6	801.64	6	442.07	6	83.31	6	6	6	6	6	6	6	6
1/4	1,872.53	1/4	1,512.95	1/4	1,153.43	1/4	794.15	1/4	434.58	1/4	76.45	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,865.04	1/2	1,505.45	1/2	1,145.95	1/2	786.66	1/2	427.09	1/2	69.58	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,857.55	3/4	1,497.96	3/4	1,138.46	3/4	779.17	3/4	419.60	3/4	62.72	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,850.06	7	1,490.47	7	1,130.98	7	771.68	7	412.11	7	57.10	7	7	7	7	7	7	7	7
1/4	1,842.57	1/4	1,482.98	1/4	1,123.50	1/4	764.19	1/4	404.62	1/4	51.48	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,835.08	1/2	1,475.49	1/2	1,116.02	1/2	756.70	1/2	397.13	1/2	45.87	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,827.58	3/4	1,468.00	3/4	1,108.54	3/4	749.21	3/4	389.63	3/4	40.25	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,820.09	8	1,460.51	8	1,101.05	8	741.72	8	382.14	8	35.88	8	8	8	8	8	8	8	8
1/4	1,812.60	1/4	1,453.01	1/4	1,093.57	1/4	734.23	1/4	374.65	1/4	31.51	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,805.11	1/2	1,445.52	1/2	1,086.09	1/2	726.73	1/2	367.16	1/2	27.14	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,797.62	3/4	1,438.03	3/4	1,078.61	3/4	719.24	3/4	359.67	3/4	22.77	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,790.13	9	1,430.54	9	1,071.13	9	711.75	9	352.18	9		9	9	9	9	9	9	9	9
1/4	1,782.64	1/4	1,423.05	1/4	1,063.64	1/4	704.26	1/4	344.69	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,775.14	1/2	1,415.56	1/2	1,056.16	1/2	696.77	1/2	337.20	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,767.65	3/4	1,408.07	3/4	1,048.68	3/4	689.28	3/4	329.71	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,760.16	10	1,400.57	10	1,041.20	10	681.79	10	322.21	10		10	10	10	10	10	10	10	10
1/4	1,752.67	1/4	1,393.08	1/4	1,033.72	1/4	674.30	1/4	314.72	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,745.18	1/2	1,385.59	1/2	1,026.23	1/2	666.81	1/2	307.23	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,737.69	3/4	1,378.10	3/4	1,018.75	3/4	659.31	3/4	299.74	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,730.20	11	1,370.61	11	1,011.27	11	651.82	11	292.25	11		11	11	11	11	11	11	11	11
1/4	1,722.70	1/4	1,363.12	1/4	1,003.79	1/4	644.33	1/4	284.76	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,715.21	1/2	1,355.63	1/2	996.31	1/2	636.84	1/2	277.27	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,707.72	3/4	1,348.13	3/4	988.82	3/4	629.35	3/4	269.78	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/16/2013 SW
CALCULATED: 08/16/2013 CL
PRINTED: 08/17/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2013

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "HBC 311"

3 STBD

ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0	4,379.94	0	4,240.71	0	4,057.51	0	3,865.84	0	3,673.03	0	3,480.22	0	3,123.12	0	2,764.93	0	2,405.92
1/4	1/4	1/4	4,379.09	1/4	4,236.98	1/4	4,053.58	1/4	3,861.82	1/4	3,669.01	1/4	3,472.77	1/4	3,115.65	1/4	2,757.45	1/4	2,398.44
1/2	1/2	1/2	4,378.23	1/2	4,233.26	1/2	4,049.65	1/2	3,857.81	1/2	3,664.99	1/2	3,465.32	1/2	3,108.19	1/2	2,749.97	1/2	2,390.96
3/4	3/4	3/4	4,377.38	3/4	4,229.53	3/4	4,045.72	3/4	3,853.79	3/4	3,660.98	3/4	3,457.87	3/4	3,100.72	3/4	2,742.49	3/4	2,383.48
1	1	1	4,376.52	1	4,225.81	1	4,041.79	1	3,849.77	1	3,656.96	1	3,450.43	1	3,093.25	1	2,735.01	1	2,376.00
1/4	1/4	1/4	4,374.43	1/4	4,220.99	1/4	4,037.85	1/4	3,845.75	1/4	3,652.94	1/4	3,442.98	1/4	3,085.79	1/4	2,727.53	1/4	2,368.52
1/2	1/2	1/2	4,372.34	1/2	4,218.33	1/2	4,033.90	1/2	3,841.74	1/2	3,648.93	1/2	3,435.53	1/2	3,078.32	1/2	2,720.05	1/2	2,361.04
3/4	3/4	3/4	4,370.25	3/4	4,214.59	3/4	4,029.96	3/4	3,837.72	3/4	3,644.91	3/4	3,428.09	3/4	3,070.86	3/4	2,712.58	3/4	2,353.56
2	2	2	4,368.16	2	4,210.85	2	4,026.01	2	3,833.70	2	3,640.89	2	3,420.64	2	3,063.39	2	2,705.10	2	2,346.07
1/4	1/4	1/4	4,365.24	1/4	4,207.09	1/4	4,022.05	1/4	3,829.69	1/4	3,636.88	1/4	3,413.19	1/4	3,055.93	1/4	2,697.62	1/4	2,338.59
1/2	1/2	1/2	4,362.33	1/2	4,203.34	1/2	4,018.09	1/2	3,825.67	1/2	3,632.86	1/2	3,405.74	1/2	3,048.47	1/2	2,690.14	1/2	2,331.11
3/4	3/4	3/4	4,359.41	3/4	4,199.58	3/4	4,014.13	3/4	3,821.65	3/4	3,628.84	3/4	3,398.30	3/4	3,041.01	3/4	2,682.66	3/4	2,323.63
3	3	3	4,356.49	3	4,195.82	3	4,010.16	3	3,817.64	3	3,624.82	3	3,390.85	3	3,033.56	3	2,675.18	3	2,316.15
1/4	1/4	1/4	4,352.97	1/4	4,192.05	1/4	4,006.19	1/4	3,813.62	1/4	3,620.81	1/4	3,383.40	1/4	3,026.10	1/4	2,667.70	1/4	2,308.67
1/2	1/2	1/2	4,349.44	1/2	4,188.28	1/2	4,002.21	1/2	3,809.60	1/2	3,616.79	1/2	3,375.95	1/2	3,018.64	1/2	2,660.23	1/2	2,301.19
3/4	3/4	3/4	4,345.92	3/4	4,184.51	3/4	3,998.23	3/4	3,805.59	3/4	3,612.77	3/4	3,368.51	3/4	3,011.18	3/4	2,652.75	3/4	2,293.71
4	4	4	4,342.40	4	4,180.74	4	3,994.26	4	3,801.57	4	3,608.76	4	3,361.06	4	3,003.72	4	2,645.27	4	2,286.23
1/4	1/4	1/4	4,338.83	1/4	4,176.95	1/4	3,990.26	1/4	3,797.55	1/4	3,604.74	1/4	3,353.61	1/4	2,996.26	1/4	2,637.79	1/4	2,278.75
1/2	1/2	1/2	4,335.27	1/2	4,173.16	1/2	3,986.27	1/2	3,793.53	1/2	3,600.72	1/2	3,346.17	1/2	2,988.81	1/2	2,630.31	1/2	2,271.27
3/4	3/4	3/4	4,331.70	3/4	4,169.37	3/4	3,982.28	3/4	3,789.52	3/4	3,596.71	3/4	3,338.72	3/4	2,981.35	3/4	2,622.83	3/4	2,263.79
5	5	5	4,328.14	5	4,165.58	5	3,978.28	5	3,785.50	5	3,592.69	5	3,331.27	5	2,973.89	5	2,615.36	5	2,256.31
1/4	1/4	1/4	4,324.55	1/4	4,161.78	1/4	3,974.27	1/4	3,781.48	1/4	3,588.67	1/4	3,323.82	1/4	2,966.43	1/4	2,607.88	1/4	2,248.83
1/2	1/2	1/2	4,320.96	1/2	4,157.98	1/2	3,970.26	1/2	3,777.47	1/2	3,584.66	1/2	3,316.38	1/2	2,958.97	1/2	2,600.40	1/2	2,241.35
3/4	3/4	3/4	4,317.37	3/4	4,154.17	3/4	3,966.25	3/4	3,773.45	3/4	3,580.64	3/4	3,308.93	3/4	2,951.51	3/4	2,592.92	3/4	2,233.87
6	6	6	4,313.78	6	4,150.37	6	3,962.24	6	3,769.43	6	3,576.62	6	3,301.48	6	2,944.06	6	2,585.44	6	2,226.39
1/4	1/4	1/4	4,310.17	1/4	4,146.55	1/4	3,958.23	1/4	3,765.42	1/4	3,572.61	1/4	3,294.05	1/4	2,936.60	1/4	2,577.96	1/4	2,218.91
1/2	1/2	1/2	4,306.57	1/2	4,142.73	1/2	3,954.21	1/2	3,761.40	1/2	3,568.59	1/2	3,286.62	1/2	2,929.14	1/2	2,570.48	1/2	2,211.43
3/4	3/4	3/4	4,302.96	3/4	4,138.91	3/4	3,950.19	3/4	3,757.38	3/4	3,564.57	3/4	3,279.19	3/4	2,921.68	3/4	2,563.00	3/4	2,203.95
7	7	7	4,299.36	7	4,135.09	7	3,946.18	7	3,753.37	7	3,560.55	7	3,271.75	7	2,914.22	7	2,555.52	7	2,196.47
1/4	1/4	1/4	4,295.73	1/4	4,131.25	1/4	3,942.16	1/4	3,749.35	1/4	3,556.54	1/4	3,264.32	1/4	2,906.76	1/4	2,548.04	1/4	2,188.99
1/2	1/2	1/2	4,292.11	1/2	4,127.42	1/2	3,938.14	1/2	3,745.33	1/2	3,552.52	1/2	3,256.89	1/2	2,899.31	1/2	2,540.56	1/2	2,181.51
3/4	3/4	3/4	4,288.49	3/4	4,123.58	3/4	3,934.13	3/4	3,741.31	3/4	3,548.50	3/4	3,249.46	3/4	2,891.85	3/4	2,533.08	3/4	2,174.03
8	8	8	4,284.87	8	4,119.75	8	3,930.11	8	3,737.30	8	3,544.49	8	3,242.03	8	2,884.39	8	2,525.60	8	2,166.55
1/4	1/4	1/4	4,281.23	1/4	4,115.88	1/4	3,926.09	1/4	3,733.28	1/4	3,540.47	1/4	3,234.60	1/4	2,876.92	1/4	2,518.12	1/4	2,159.07
1/2	1/2	1/2	4,277.59	1/2	4,112.02	1/2	3,922.08	1/2	3,729.26	1/2	3,536.45	1/2	3,227.16	1/2	2,869.46	1/2	2,510.64	1/2	2,151.59
3/4	3/4	3/4	4,273.95	3/4	4,108.15	3/4	3,918.06	3/4	3,725.25	3/4	3,532.44	3/4	3,219.73	3/4	2,861.99	3/4	2,503.16	3/4	2,144.11
9	9	9	4,270.31	9	4,104.28	9	3,914.04	9	3,721.23	9	3,528.42	9	3,212.30	9	2,854.52	9	2,495.68	9	2,136.63
1/4	1/4	1/4	4,266.62	1/4	4,100.40	1/4	3,910.02	1/4	3,717.21	1/4	3,524.40	1/4	3,204.87	1/4	2,847.06	1/4	2,488.20	1/4	2,129.15
1/2	1/2	1/2	4,262.93	1/2	4,096.52	1/2	3,906.01	1/2	3,713.20	1/2	3,520.39	1/2	3,197.44	1/2	2,839.59	1/2	2,480.72	1/2	2,121.67
3/4	3/4	3/4	4,259.24	3/4	4,092.64	3/4	3,901.99	3/4	3,709.18	3/4	3,516.37	3/4	3,190.00	3/4	2,832.13	3/4	2,473.24	3/4	2,114.19
10	10	10	4,255.54	10	4,088.76	10	3,897.97	10	3,705.16	10	3,512.35	10	3,182.57	10	2,824.66	10	2,465.76	10	2,106.71
1/4	1/4	1/4	4,251.83	1/4	4,084.86	1/4	3,893.96	1/4	3,701.15	1/4	3,508.33	1/4	3,175.14	1/4	2,817.19	1/4	2,458.28	1/4	2,099.23
1/2	1/2	1/2	4,248.13	1/2	4,080.96	1/2	3,889.94	1/2	3,697.13	1/2	3,504.32	1/2	3,167.71	1/2	2,809.73	1/2	2,450.80	1/2	2,091.75
3/4	3/4	3/4	4,244.42	3/4	4,077.06	3/4	3,885.92	3/4	3,693.11	3/4	3,500.30	3/4	3,160.28	3/4	2,802.26	3/4	2,443.32	3/4	2,084.27
11	11	11	4,241.71	11	4,073.17	11	3,881.91	11	3,689.10	11	3,496.28	11	3,152.85	11	2,794.80	11	2,435.84	11	2,076.79
1/4	1/4	1/4	4,238.00	1/4	4,069.25	1/4	3,877.89	1/4	3,685.08	1/4	3,492.27	1/4	3,145.41	1/4	2,787.33	1/4	2,428.36	1/4	2,069.31
1/2	1/2	1/2	4,234.29	1/2	4,065.34	1/2	3,873.87	1/2	3,681.06	1/2	3,488.25	1/2	3,137.98	1/2	2,779.86	1/2	2,420.88	1/2	2,061.83
3/4	3/4	3/4	4,230.58	3/4	4,061.42	3/4	3,869.86	3/4	3,677.04	3/4	3,484.23	3/4	3,130.55	3/4	2,772.40	3/4	2,413.40	3/4	2,054.35

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO 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 311"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.			
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	2,046.87	0	1,687.74	0	1,329.85	0	980.35	0	628.79	0	269.56	0		0		0		0		0	
1/4	2,039.39	1/4	1,680.26	1/4	1,322.43	1/4	973.20	1/4	621.30	1/4	262.07	1/4		1/4		1/4		1/4		1/4	
1/2	2,031.91	1/2	1,672.78	1/2	1,315.00	1/2	966.05	1/2	613.82	1/2	254.59	1/2		1/2		1/2		1/2		1/2	
3/4	2,024.43	3/4	1,665.30	3/4	1,307.58	3/4	958.91	3/4	606.34	3/4	247.10	3/4		3/4		3/4		3/4		3/4	
1	2,016.95	1	1,657.81	1	1,300.16	1	951.76	1	598.85	1	239.62	1		1		1		1		1	
1/4	2,009.46	1/4	1,650.33	1/4	1,292.74	1/4	944.62	1/4	591.37	1/4	232.14	1/4		1/4		1/4		1/4		1/4	
1/2	2,001.98	1/2	1,642.85	1/2	1,285.32	1/2	937.47	1/2	583.88	1/2	224.65	1/2		1/2		1/2		1/2		1/2	
3/4	1,994.50	3/4	1,635.37	3/4	1,277.90	3/4	930.32	3/4	576.40	3/4	217.17	3/4		3/4		3/4		3/4		3/4	
2	1,987.02	2	1,627.89	2	1,270.48	2	923.18	2	568.92	2	209.68	2		2		2		2		2	
1/4	1,979.54	1/4	1,620.41	1/4	1,263.06	1/4	916.03	1/4	561.43	1/4	202.20	1/4		1/4		1/4		1/4		1/4	
1/2	1,972.05	1/2	1,612.92	1/2	1,255.64	1/2	908.88	1/2	553.95	1/2	194.72	1/2		1/2		1/2		1/2		1/2	
3/4	1,964.57	3/4	1,605.44	3/4	1,248.22	3/4	901.73	3/4	546.46	3/4	187.23	3/4		3/4		3/4		3/4		3/4	
3	1,957.09	3	1,597.96	3	1,240.80	3	894.58	3	538.98	3	179.75	3		3		3		3		3	
1/4	1,949.61	1/4	1,590.48	1/4	1,233.40	1/4	887.41	1/4	531.50	1/4	172.26	1/4		1/4		1/4		1/4		1/4	
1/2	1,942.13	1/2	1,583.00	1/2	1,226.00	1/2	880.23	1/2	524.01	1/2	164.78	1/2		1/2		1/2		1/2		1/2	
3/4	1,934.65	3/4	1,575.51	3/4	1,218.59	3/4	873.06	3/4	516.53	3/4	157.30	3/4		3/4		3/4		3/4		3/4	
4	1,927.16	4	1,568.03	4	1,211.19	4	865.89	4	509.04	4	149.82	4		4		4		4		4	
1/4	1,919.68	1/4	1,560.55	1/4	1,203.79	1/4	858.72	1/4	501.56	1/4	142.34	1/4		1/4		1/4		1/4		1/4	
1/2	1,912.20	1/2	1,553.07	1/2	1,196.39	1/2	851.55	1/2	494.08	1/2	134.86	1/2		1/2		1/2		1/2		1/2	
3/4	1,904.72	3/4	1,545.59	3/4	1,188.98	3/4	844.37	3/4	486.59	3/4	127.38	3/4		3/4		3/4		3/4		3/4	
5	1,897.24	5	1,538.10	5	1,181.58	5	837.20	5	479.11	5	119.90	5		5		5		5		5	
1/4	1,889.75	1/4	1,530.62	1/4	1,174.15	1/4	830.00	1/4	471.62	1/4	112.45	1/4		1/4		1/4		1/4		1/4	
1/2	1,882.27	1/2	1,523.14	1/2	1,166.72	1/2	822.80	1/2	464.14	1/2	105.00	1/2		1/2		1/2		1/2		1/2	
3/4	1,874.79	3/4	1,515.66	3/4	1,159.29	3/4	815.60	3/4	456.66	3/4	97.55	3/4		3/4		3/4		3/4		3/4	
6	1,867.31	6	1,508.18	6	1,151.86	6	808.40	6	449.17	6	90.10	6		6		6		6		6	
1/4	1,859.83	1/4	1,500.70	1/4	1,144.72	1/4	800.92	1/4	441.69	1/4	83.25	1/4		1/4		1/4		1/4		1/4	
1/2	1,852.34	1/2	1,493.21	1/2	1,137.57	1/2	793.44	1/2	434.20	1/2	76.41	1/2		1/2		1/2		1/2		1/2	
3/4	1,844.86	3/4	1,485.73	3/4	1,130.42	3/4	785.95	3/4	426.72	3/4	69.56	3/4		3/4		3/4		3/4		3/4	
7	1,837.38	7	1,478.25	7	1,123.28	7	778.47	7	419.24	7	62.71	7		7		7		7		7	
1/4	1,829.90	1/4	1,470.83	1/4	1,116.13	1/4	770.98	1/4	411.75	1/4	57.10	1/4		1/4		1/4		1/4		1/4	
1/2	1,822.42	1/2	1,463.41	1/2	1,108.98	1/2	763.50	1/2	404.27	1/2	51.49	1/2		1/2		1/2		1/2		1/2	
3/4	1,814.93	3/4	1,455.99	3/4	1,101.84	3/4	756.02	3/4	396.78	3/4	45.88	3/4		3/4		3/4		3/4		3/4	
8	1,807.45	8	1,448.57	8	1,094.69	8	748.53	8	389.30	8	40.27	8		8		8		8		8	
1/4	1,799.97	1/4	1,441.15	1/4	1,087.55	1/4	741.05	1/4	381.82	1/4	35.90	1/4		1/4		1/4		1/4		1/4	
1/2	1,792.49	1/2	1,433.73	1/2	1,080.40	1/2	733.56	1/2	374.33	1/2	31.53	1/2		1/2		1/2		1/2		1/2	
3/4	1,785.01	3/4	1,426.31	3/4	1,073.25	3/4	726.08	3/4	366.85	3/4	27.16	3/4		3/4		3/4		3/4		3/4	
9	1,777.53	9	1,418.89	9	1,066.11	9	718.60	9	359.36	9	22.79	9		9		9		9		9	
1/4	1,770.04	1/4	1,411.47	1/4	1,058.96	1/4	711.11	1/4	351.88	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,762.56	1/2	1,404.05	1/2	1,051.81	1/2	703.63	1/2	344.40	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,755.08	3/4	1,396.63	3/4	1,044.67	3/4	696.14	3/4	336.91	3/4		3/4		3/4		3/4		3/4		3/4	
10	1,747.60	10	1,389.21	10	1,037.52	10	688.66	10	329.43	10		10		10		10		10		10	
1/4	1,740.12	1/4	1,381.79	1/4	1,030.37	1/4	681.18	1/4	321.94	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,732.63	1/2	1,374.37	1/2	1,023.23	1/2	673.69	1/2	314.46	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,725.15	3/4	1,366.95	3/4	1,016.08	3/4	666.21	3/4	306.98	3/4		3/4		3/4		3/4		3/4		3/4	
11	1,717.67	11	1,359.53	11	1,008.93	11	658.72	11	299.49	11		11		11		11		11		11	
1/4	1,710.19	1/4	1,352.11	1/4	1,001.79	1/4	651.24	1/4	292.01	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,702.71	1/2	1,344.69	1/2	994.64	1/2	643.76	1/2	284.52	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,695.22	3/4	1,337.27	3/4	987.49	3/4	636.27	3/4	277.04	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/16/2013 SW
CALCULATED: 08/16/2013 CL
PRINTED: 08/17/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2013

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