



BARGE "HTCO 3111"

ULLAGE (HERMETIC)

	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	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-5/8	00-5/8
1 STBD	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-5/8	00-5/8
2 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	- 00-1/2	00-1/2
2 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	- 00-1/2	00-1/2
3 PORT	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-5/8	00-5/8
3 STBD	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-5/8	00-5/8

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

LENGTH BETWEEN DRAFT MARKS: 237'-09"

December 28, 2023

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

<http://www.pmacorp.net>



BARGE "HTCO 3111"

1 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 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		0		0		0		0	4,685.36	0	4,328.71	0	3,970.81	0	3,612.88	0	3,254.95	0	2,897.00
1/4		1/4		1/4		1/4		1/4	4,677.96	1/4	4,321.26	1/4	3,963.36	1/4	3,605.43	1/4	3,247.50	1/4	2,889.54
1/2		1/2		1/2		1/2		1/2	4,670.57	1/2	4,313.81	1/2	3,955.90	1/2	3,597.97	1/2	3,240.04	1/2	2,882.08
3/4		3/4		3/4		3/4		3/4	5,006.54	3/4	4,663.17	3/4	4,306.37	3/4	3,948.44	3/4	3,590.51	3/4	3,232.58
1		1		1		1		1	5,001.81	1	4,655.78	1	4,298.92	1	3,940.99	1	3,583.06	1	3,225.12
1/4		1/4		1/4		1/4		1/4	4,996.01	1/4	4,648.36	1/4	4,291.46	1/4	3,933.53	1/4	3,575.60	1/4	3,217.67
1/2		1/2		1/2		1/2		1/2	4,990.21	1/2	4,640.95	1/2	4,284.00	1/2	3,926.07	1/2	3,568.14	1/2	3,210.21
3/4		3/4		3/4		3/4		3/4	4,984.41	3/4	4,633.53	3/4	4,276.55	3/4	3,918.62	3/4	3,560.69	3/4	3,202.75
2		2		2		2		2	4,978.61	2	4,626.12	2	4,269.09	2	3,911.16	2	3,553.23	2	3,195.30
1/4		1/4		1/4		1/4		1/4	4,971.80	1/4	4,618.68	1/4	4,261.63	1/4	3,903.70	1/4	3,545.77	1/4	3,187.84
1/2		1/2		1/2		1/2		1/2	4,965.00	1/2	4,611.24	1/2	4,254.18	1/2	3,896.25	1/2	3,538.31	1/2	3,180.38
3/4		3/4		3/4		3/4		3/4	4,958.20	3/4	4,603.81	3/4	4,246.72	3/4	3,888.79	3/4	3,530.86	3/4	3,172.93
3		3		3		3		3	4,951.40	3	4,596.37	3	4,239.26	3	3,881.33	3	3,523.40	3	3,165.47
1/4		1/4		1/4		1/4		1/4	4,944.07	1/4	4,588.94	1/4	4,231.81	1/4	3,873.88	1/4	3,515.94	1/4	3,158.01
1/2		1/2		1/2		1/2		1/2	4,936.73	1/2	4,581.50	1/2	4,224.35	1/2	3,866.42	1/2	3,508.49	1/2	3,150.56
3/4		3/4		3/4		3/4		3/4	4,929.40	3/4	4,574.07	3/4	4,216.89	3/4	3,858.96	3/4	3,501.03	3/4	3,143.10
4		4		4		4		4	4,922.07	4	4,566.63	4	4,209.44	4	3,851.50	4	3,493.57	4	3,135.64
1/4		1/4		1/4		1/4		1/4	4,914.67	1/4	4,559.20	1/4	4,201.98	1/4	3,844.05	1/4	3,486.12	1/4	3,128.19
1/2		1/2		1/2		1/2		1/2	4,907.27	1/2	4,551.76	1/2	4,194.52	1/2	3,836.59	1/2	3,478.66	1/2	3,120.73
3/4		3/4		3/4		3/4		3/4	4,899.87	3/4	4,544.33	3/4	4,187.06	3/4	3,829.13	3/4	3,471.20	3/4	3,113.27
5		5		5		5		5	4,892.47	5	4,536.89	5	4,179.61	5	3,821.68	5	3,463.75	5	3,105.81
1/4		1/4		1/4		1/4		1/4	4,885.07	1/4	4,529.46	1/4	4,172.15	1/4	3,814.22	1/4	3,456.29	1/4	3,098.36
1/2		1/2		1/2		1/2		1/2	4,877.67	1/2	4,522.02	1/2	4,164.69	1/2	3,806.76	1/2	3,448.83	1/2	3,090.90
3/4		3/4		3/4		3/4		3/4	4,870.27	3/4	4,514.59	3/4	4,157.24	3/4	3,799.31	3/4	3,441.37	3/4	3,083.44
6		6		6		6		6	4,862.87	6	4,507.15	6	4,149.78	6	3,791.85	6	3,433.92	6	3,075.99
1/4		1/4		1/4		1/4		1/4	4,855.47	1/4	4,499.72	1/4	4,142.32	1/4	3,784.39	1/4	3,426.46	1/4	3,068.53
1/2		1/2		1/2		1/2		1/2	4,848.07	1/2	4,492.28	1/2	4,134.87	1/2	3,776.94	1/2	3,419.00	1/2	3,061.07
3/4		3/4		3/4		3/4		3/4	4,840.67	3/4	4,484.85	3/4	4,127.41	3/4	3,769.48	3/4	3,411.55	3/4	3,053.62
7		7		7		7		7	4,833.27	7	4,477.41	7	4,119.95	7	3,762.02	7	3,404.09	7	3,046.16
1/4		1/4		1/4		1/4		1/4	4,825.88	1/4	4,469.98	1/4	4,112.50	1/4	3,754.56	1/4	3,396.63	1/4	3,038.70
1/2		1/2		1/2		1/2		1/2	4,818.48	1/2	4,462.54	1/2	4,105.04	1/2	3,747.11	1/2	3,389.18	1/2	3,031.25
3/4		3/4		3/4		3/4		3/4	4,811.08	3/4	4,455.11	3/4	4,097.58	3/4	3,739.65	3/4	3,381.72	3/4	3,023.79
8		8		8		8		8	4,803.68	8	4,447.67	8	4,090.13	8	3,732.19	8	3,374.26	8	3,016.33
1/4		1/4		1/4		1/4		1/4	4,796.29	1/4	4,440.24	1/4	4,082.67	1/4	3,724.74	1/4	3,366.81	1/4	3,008.87
1/2		1/2		1/2		1/2		1/2	4,788.89	1/2	4,432.80	1/2	4,075.21	1/2	3,717.28	1/2	3,359.35	1/2	3,001.42
3/4		3/4		3/4		3/4		3/4	4,781.50	3/4	4,425.36	3/4	4,067.75	3/4	3,709.82	3/4	3,351.89	3/4	2,993.96
9		9		9		9		9	4,774.10	9	4,417.93	9	4,060.30	9	3,702.37	9	3,344.44	9	2,986.50
1/4		1/4		1/4		1/4		1/4	4,766.71	1/4	4,410.49	1/4	4,052.84	1/4	3,694.91	1/4	3,336.98	1/4	2,979.05
1/2		1/2		1/2		1/2		1/2	4,759.31	1/2	4,403.06	1/2	4,045.38	1/2	3,687.45	1/2	3,329.52	1/2	2,971.59
3/4		3/4		3/4		3/4		3/4	4,751.92	3/4	4,395.62	3/4	4,037.93	3/4	3,680.00	3/4	3,322.06	3/4	2,964.13
10		10		10		10		10	4,744.52	10	4,388.19	10	4,030.47	10	3,672.54	10	3,314.61	10	2,956.68
1/4		1/4		1/4		1/4		1/4	4,737.13	1/4	4,380.75	1/4	4,023.01	1/4	3,665.08	1/4	3,307.15	1/4	2,949.22
1/2		1/2		1/2		1/2		1/2	4,729.73	1/2	4,373.32	1/2	4,015.56	1/2	3,657.63	1/2	3,299.69	1/2	2,941.76
3/4		3/4		3/4		3/4		3/4	4,722.33	3/4	4,365.88	3/4	4,008.10	3/4	3,650.17	3/4	3,292.24	3/4	2,934.31
11		11		11		11		11	4,714.94	11	4,358.45	11	4,000.64	11	3,642.71	11	3,284.78	11	2,926.85
1/4		1/4		1/4		1/4		1/4	4,707.54	1/4	4,351.01	1/4	3,993.19	1/4	3,635.25	1/4	3,277.32	1/4	2,919.39
1/2		1/2		1/2		1/2		1/2	4,700.15	1/2	4,343.58	1/2	3,985.73	1/2	3,627.80	1/2	3,269.87	1/2	2,911.93
3/4		3/4		3/4		3/4		3/4	4,692.75	3/4	4,336.14	3/4	3,978.27	3/4	3,620.34	3/4	3,262.41	3/4	2,904.46

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 HERMETIC DEVICE
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 41'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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BARGE "HTCO 3111"

1 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 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	2,538.88	0	2,180.76	0	1,822.63	0	1,464.51	0	1,106.44	0	750.48	0	397.37	0	83.36	0		0	
1/4	2,531.42	1/4	2,173.29	1/4	1,815.17	1/4	1,457.05	1/4	1,099.01	1/4	743.02	1/4	390.40	1/4	77.33	1/4		1/4	
1/2	2,523.96	1/2	2,165.83	1/2	1,807.71	1/2	1,449.59	1/2	1,091.58	1/2	735.56	1/2	383.43	1/2	71.30	1/2		1/2	
3/4	2,516.50	3/4	2,158.37	3/4	1,800.25	3/4	1,442.13	3/4	1,084.15	3/4	728.09	3/4	376.45	3/4	65.28	3/4		3/4	
1	2,509.03	1	2,150.91	1	1,792.79	1	1,434.67	1	1,076.72	1	720.63	1	369.48	1	59.25	1		1	
1/4	2,501.57	1/4	2,143.45	1/4	1,785.33	1/4	1,427.20	1/4	1,069.29	1/4	713.17	1/4	362.59	1/4	53.77	1/4		1/4	
1/2	2,494.11	1/2	2,135.99	1/2	1,777.87	1/2	1,419.74	1/2	1,061.87	1/2	705.71	1/2	355.69	1/2	48.29	1/2		1/2	
3/4	2,486.65	3/4	2,128.53	3/4	1,770.41	3/4	1,412.28	3/4	1,054.45	3/4	698.25	3/4	348.79	3/4	42.81	3/4		3/4	
2	2,479.19	2	2,121.07	2	1,762.94	2	1,404.82	2	1,047.02	2	690.79	2	341.90	2	37.33	2		2	
1/4	2,471.73	1/4	2,113.61	1/4	1,755.48	1/4	1,397.36	1/4	1,039.60	1/4	683.33	1/4	335.08	1/4	33.33	1/4		1/4	
1/2	2,464.27	1/2	2,106.15	1/2	1,748.02	1/2	1,389.90	1/2	1,032.19	1/2	675.87	1/2	328.25	1/2	29.34	1/2		1/2	
3/4	2,456.81	3/4	2,098.69	3/4	1,740.56	3/4	1,382.44	3/4	1,024.77	3/4	668.41	3/4	321.43	3/4	25.34	3/4		3/4	
3	2,449.35	3	2,091.22	3	1,733.10	3	1,374.98	3	1,017.35	3	660.95	3	314.61	3	21.34	3		3	
1/4	2,441.89	1/4	2,083.76	1/4	1,725.64	1/4	1,367.52	1/4	1,009.94	1/4	653.49	1/4	307.86	1/4	18.43	1/4		1/4	
1/2	2,434.43	1/2	2,076.30	1/2	1,718.18	1/2	1,360.06	1/2	1,002.53	1/2	646.03	1/2	301.12	1/2		1/2		1/2	
3/4	2,426.96	3/4	2,068.84	3/4	1,710.72	3/4	1,352.60	3/4	995.11	3/4	638.57	3/4	294.38	3/4		3/4		3/4	
4	2,419.50	4	2,061.38	4	1,703.26	4	1,345.13	4	987.70	4	631.11	4	287.64	4	4	4		4	
1/4	2,412.04	1/4	2,053.92	1/4	1,695.80	1/4	1,337.67	1/4	980.29	1/4	623.64	1/4	280.97	1/4		1/4		1/4	
1/2	2,404.58	1/2	2,046.46	1/2	1,688.34	1/2	1,330.21	1/2	972.88	1/2	616.18	1/2	274.31	1/2		1/2		1/2	
3/4	2,397.12	3/4	2,039.00	3/4	1,680.87	3/4	1,322.75	3/4	965.47	3/4	608.72	3/4	267.65	3/4		3/4		3/4	
5	2,389.66	5	2,031.54	5	1,673.41	5	1,315.29	5	958.06	5	601.26	5	260.99	5	5	5		5	
1/4	2,382.20	1/4	2,024.08	1/4	1,665.95	1/4	1,307.83	1/4	950.65	1/4	593.80	1/4	254.41	1/4		1/4		1/4	
1/2	2,374.74	1/2	2,016.62	1/2	1,658.49	1/2	1,300.37	1/2	943.24	1/2	586.34	1/2	247.83	1/2		1/2		1/2	
3/4	2,367.28	3/4	2,009.15	3/4	1,651.03	3/4	1,292.91	3/4	935.83	3/4	578.88	3/4	241.25	3/4		3/4		3/4	
6	2,359.82	6	2,001.69	6	1,643.57	6	1,285.45	6	928.42	6	571.42	6	234.67	6	6	6		6	
1/4	2,352.36	1/4	1,994.23	1/4	1,636.11	1/4	1,277.99	1/4	921.01	1/4	563.98	1/4	228.17	1/4		1/4		1/4	
1/2	2,344.90	1/2	1,986.77	1/2	1,628.65	1/2	1,270.53	1/2	913.60	1/2	556.54	1/2	221.67	1/2		1/2		1/2	
3/4	2,337.43	3/4	1,979.31	3/4	1,621.19	3/4	1,263.06	3/4	906.19	3/4	549.10	3/4	215.17	3/4		3/4		3/4	
7	2,329.97	7	1,971.85	7	1,613.73	7	1,255.60	7	898.78	7	541.67	7	208.67	7	7	7		7	
1/4	2,322.51	1/4	1,964.39	1/4	1,606.27	1/4	1,248.14	1/4	891.37	1/4	534.29	1/4	202.25	1/4		1/4		1/4	
1/2	2,315.05	1/2	1,956.93	1/2	1,598.81	1/2	1,240.68	1/2	883.96	1/2	526.91	1/2	195.83	1/2		1/2		1/2	
3/4	2,307.59	3/4	1,949.47	3/4	1,591.34	3/4	1,233.22	3/4	876.55	3/4	519.54	3/4	189.42	3/4		3/4		3/4	
8	2,300.13	8	1,942.01	8	1,583.88	8	1,225.76	8	869.14	8	512.16	8	183.00	8	8	8		8	
1/4	2,292.67	1/4	1,934.55	1/4	1,576.42	1/4	1,218.30	1/4	861.73	1/4	504.86	1/4	176.66	1/4		1/4		1/4	
1/2	2,285.21	1/2	1,927.08	1/2	1,568.96	1/2	1,210.84	1/2	854.32	1/2	497.57	1/2	170.31	1/2		1/2		1/2	
3/4	2,277.75	3/4	1,919.62	3/4	1,561.50	3/4	1,203.38	3/4	846.91	3/4	490.27	3/4	163.97	3/4		3/4		3/4	
9	2,270.29	9	1,912.16	9	1,554.04	9	1,195.92	9	839.50	9	482.98	9	157.63	9	9	9		9	
1/4	2,262.83	1/4	1,904.70	1/4	1,546.58	1/4	1,188.46	1/4	832.09	1/4	475.76	1/4	151.36	1/4		1/4		1/4	
1/2	2,255.36	1/2	1,897.24	1/2	1,539.12	1/2	1,180.99	1/2	824.68	1/2	468.55	1/2	145.09	1/2		1/2		1/2	
3/4	2,247.90	3/4	1,889.78	3/4	1,531.66	3/4	1,173.53	3/4	817.27	3/4	461.33	3/4	138.82	3/4		3/4		3/4	
10	2,240.44	10	1,882.32	10	1,524.20	10	1,166.07	10	809.86	10	454.11	10	132.55	10	10	10		10	
1/4	2,232.98	1/4	1,874.86	1/4	1,516.74	1/4	1,158.61	1/4	802.45	1/4	446.98	1/4	126.36	1/4		1/4		1/4	
1/2	2,225.52	1/2	1,867.40	1/2	1,509.27	1/2	1,151.15	1/2	795.04	1/2	439.85	1/2	120.17	1/2		1/2		1/2	
3/4	2,218.06	3/4	1,859.94	3/4	1,501.81	3/4	1,143.69	3/4	787.63	3/4	432.71	3/4	113.98	3/4		3/4		3/4	
11	2,210.60	11	1,852.48	11	1,494.35	11	1,136.23	11	780.22	11	425.58	11	107.79	11	11	11		11	
1/4	2,203.14	1/4	1,845.01	1/4	1,486.89	1/4	1,128.78	1/4	772.78	1/4	418.53	1/4	101.68	1/4		1/4		1/4	
1/2	2,195.68	1/2	1,837.55	1/2	1,479.43	1/2	1,121.34	1/2	765.35	1/2	411.47	1/2	95.58	1/2		1/2		1/2	
3/4	2,188.22	3/4	1,830.09	3/4	1,471.97	3/4	1,113.89	3/4	757.91	3/4	404.42	3/4	89.47	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/19/2013 CL
RECALCULATED: 01/05/2019 CL
VERIFIED: 12/28/2023 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2023

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



BARGE "HTCO 3111"

1 STBD

ULLAGE TABLE
HERMETIC

GAUGE HEIGHT 17'-03 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,557.69	0	2,199.27	0	1,840.84	0	1,482.42	0	1,123.99	0	766.05	0	411.89	0	95.68	0		0	
1/4	2,550.23	1/4	2,191.80	1/4	1,833.37	1/4	1,474.95	1/4	1,116.52	1/4	758.59	1/4	404.84	1/4	89.57	1/4		1/4	
1/2	2,542.76	1/2	2,184.33	1/2	1,825.91	1/2	1,467.48	1/2	1,109.06	1/2	751.13	1/2	397.78	1/2	83.45	1/2		1/2	
3/4	2,535.29	3/4	2,176.87	3/4	1,818.44	3/4	1,460.01	3/4	1,101.59	3/4	743.66	3/4	390.80	3/4	77.42	3/4		3/4	
1	2,527.82	1	2,169.40	1	1,810.97	1	1,452.55	1	1,094.12	1	736.20	1	383.82	1	71.39	1		1	
1/4	2,520.36	1/4	2,161.93	1/4	1,803.51	1/4	1,445.08	1/4	1,086.65	1/4	728.73	1/4	376.84	1/4	65.35	1/4		1/4	
1/2	2,512.89	1/2	2,154.46	1/2	1,796.04	1/2	1,437.61	1/2	1,079.19	1/2	721.26	1/2	369.87	1/2	59.32	1/2		1/2	
3/4	2,505.42	3/4	2,147.00	3/4	1,788.57	3/4	1,430.15	3/4	1,071.72	3/4	713.79	3/4	362.96	3/4	53.83	3/4		3/4	
2	2,497.96	2	2,139.53	2	1,781.10	2	1,422.68	2	1,064.26	2	706.33	2	356.06	2	48.35	2		2	
1/4	2,490.49	1/4	2,132.06	1/4	1,773.64	1/4	1,415.21	1/4	1,056.80	1/4	698.86	1/4	349.16	1/4	42.86	1/4		1/4	
1/2	2,483.02	1/2	2,124.60	1/2	1,766.17	1/2	1,407.74	1/2	1,049.33	1/2	691.39	1/2	342.26	1/2	37.37	1/2		1/2	
3/4	2,475.55	3/4	2,117.13	3/4	1,758.70	3/4	1,400.28	3/4	1,041.87	3/4	683.93	3/4	335.43	3/4	33.37	3/4		3/4	
3	2,468.09	3	2,109.66	3	1,751.24	3	1,392.81	3	1,034.41	3	676.46	3	328.60	3	29.37	3		3	
1/4	2,460.62	1/4	2,102.19	1/4	1,743.77	1/4	1,385.34	1/4	1,026.95	1/4	668.99	1/4	321.77	1/4	25.36	1/4		1/4	
1/2	2,453.15	1/2	2,094.73	1/2	1,736.30	1/2	1,377.88	1/2	1,019.49	1/2	661.53	1/2	314.94	1/2	21.36	1/2		1/2	
3/4	2,445.69	3/4	2,087.26	3/4	1,728.83	3/4	1,370.41	3/4	1,012.03	3/4	654.06	3/4	308.19	3/4	18.44	3/4		3/4	
4	2,438.22	4	2,079.79	4	1,721.37	4	1,362.94	4	1,004.58	4	646.59	4	301.44	4		4		4	
1/4	2,430.75	1/4	2,072.33	1/4	1,713.90	1/4	1,355.47	1/4	997.12	1/4	639.12	1/4	294.69	1/4		1/4		1/4	
1/2	2,423.28	1/2	2,064.86	1/2	1,706.43	1/2	1,348.01	1/2	989.66	1/2	631.66	1/2	287.94	1/2		1/2		1/2	
3/4	2,415.82	3/4	2,057.39	3/4	1,698.97	3/4	1,340.54	3/4	982.21	3/4	624.19	3/4	281.27	3/4		3/4		3/4	
5	2,408.35	5	2,049.92	5	1,691.50	5	1,333.07	5	974.75	5	616.72	5	274.60	5		5		5	
1/4	2,400.88	1/4	2,042.46	1/4	1,684.03	1/4	1,325.61	1/4	967.30	1/4	609.26	1/4	267.94	1/4		1/4		1/4	
1/2	2,393.41	1/2	2,034.99	1/2	1,676.56	1/2	1,318.14	1/2	959.85	1/2	601.79	1/2	261.27	1/2		1/2		1/2	
3/4	2,385.95	3/4	2,027.52	3/4	1,669.10	3/4	1,310.67	3/4	952.40	3/4	594.32	3/4	254.68	3/4		3/4		3/4	
6	2,378.48	6	2,020.05	6	1,661.63	6	1,303.20	6	944.94	6	586.86	6	248.09	6		6		6	
1/4	2,371.01	1/4	2,012.59	1/4	1,654.16	1/4	1,295.74	1/4	937.49	1/4	579.39	1/4	241.51	1/4		1/4		1/4	
1/2	2,363.55	1/2	2,005.12	1/2	1,646.69	1/2	1,288.27	1/2	930.04	1/2	571.92	1/2	234.92	1/2		1/2		1/2	
3/4	2,356.08	3/4	1,997.65	3/4	1,639.23	3/4	1,280.80	3/4	922.58	3/4	564.48	3/4	228.41	3/4		3/4		3/4	
7	2,348.61	7	1,990.19	7	1,631.76	7	1,273.33	7	915.13	7	557.04	7	221.91	7		7		7	
1/4	2,341.14	1/4	1,982.72	1/4	1,624.29	1/4	1,265.87	1/4	907.68	1/4	549.60	1/4	215.40	1/4		1/4		1/4	
1/2	2,333.68	1/2	1,975.25	1/2	1,616.83	1/2	1,258.40	1/2	900.22	1/2	542.16	1/2	208.90	1/2		1/2		1/2	
3/4	2,326.21	3/4	1,967.78	3/4	1,609.36	3/4	1,250.93	3/4	892.77	3/4	534.78	3/4	202.47	3/4		3/4		3/4	
8	2,318.74	8	1,960.32	8	1,601.89	8	1,243.47	8	885.32	8	527.41	8	196.05	8		8		8	
1/4	2,311.28	1/4	1,952.85	1/4	1,594.42	1/4	1,236.00	1/4	877.86	1/4	520.03	1/4	189.62	1/4		1/4		1/4	
1/2	2,303.81	1/2	1,945.38	1/2	1,586.96	1/2	1,228.53	1/2	870.41	1/2	512.66	1/2	183.20	1/2		1/2		1/2	
3/4	2,296.34	3/4	1,937.92	3/4	1,579.49	3/4	1,221.06	3/4	862.96	3/4	505.36	3/4	176.85	3/4		3/4		3/4	
9	2,288.87	9	1,930.45	9	1,572.02	9	1,213.60	9	855.50	9	498.06	9	170.50	9		9		9	
1/4	2,281.41	1/4	1,922.98	1/4	1,564.56	1/4	1,206.13	1/4	848.05	1/4	490.76	1/4	164.15	1/4		1/4		1/4	
1/2	2,273.94	1/2	1,915.51	1/2	1,557.09	1/2	1,198.66	1/2	840.60	1/2	483.46	1/2	157.80	1/2		1/2		1/2	
3/4	2,266.47	3/4	1,908.05	3/4	1,549.62	3/4	1,191.20	3/4	833.14	3/4	476.24	3/4	151.53	3/4		3/4		3/4	
10	2,259.01	10	1,900.58	10	1,542.15	10	1,183.73	10	825.69	10	469.02	10	145.25	10		10		10	
1/4	2,251.54	1/4	1,893.11	1/4	1,534.69	1/4	1,176.26	1/4	818.24	1/4	461.80	1/4	138.97	1/4		1/4		1/4	
1/2	2,244.07	1/2	1,885.65	1/2	1,527.22	1/2	1,168.79	1/2	810.78	1/2	454.58	1/2	132.70	1/2		1/2		1/2	
3/4	2,236.60	3/4	1,878.18	3/4	1,519.75	3/4	1,161.33	3/4	803.33	3/4	447.43	3/4	126.50	3/4		3/4		3/4	
11	2,229.14	11	1,870.71	11	1,512.29	11	1,153.86	11	795.88	11	440.29	11	120.31	11		11		11	
1/4	2,221.67	1/4	1,863.24	1/4	1,504.82	1/4	1,146.39	1/4	788.42	1/4	433.15	1/4	114.11	1/4		1/4		1/4	
1/2	2,214.20	1/2	1,855.78	1/2	1,497.35	1/2	1,138.93	1/2	780.97	1/2	426.01	1/2	107.91	1/2		1/2		1/2	
3/4	2,206.73	3/4	1,848.31	3/4	1,489.88	3/4	1,131.46	3/4	773.51	3/4	418.95	3/4	101.80	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/19/2013 CL
RECALCULATED: 01/05/2019 CL
VERIFIED: 12/28/2023 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2023

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



BARGE "HTCO 3111"

2 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,612.73	0	2,253.52	0	1,894.30	0	1,535.09	0	1,176.30	0	830.87	0	471.82	0	112.62	0		0	
1/4	2,605.25	1/4	2,246.03	1/4	1,886.82	1/4	1,527.61	1/4	1,168.96	1/4	823.54	1/4	464.34	1/4	105.13	1/4		1/4	
1/2	2,597.76	1/2	2,238.55	1/2	1,879.34	1/2	1,520.12	1/2	1,161.76	1/2	816.06	1/2	456.85	1/2	97.65	1/2		1/2	
3/4	2,590.28	3/4	2,231.07	3/4	1,871.85	3/4	1,512.64	3/4	1,154.56	3/4	808.57	3/4	449.37	3/4	90.17	3/4		3/4	
1	2,582.79	1	2,223.58	1	1,864.37	1	1,505.16	1	1,147.36	1	801.09	1	441.89	1	82.68	1		1	
1/4	2,575.31	1/4	2,216.10	1/4	1,856.89	1/4	1,497.67	1/4	1,140.15	1/4	793.60	1/4	434.40	1/4	75.20	1/4		1/4	
1/2	2,567.83	1/2	2,208.61	1/2	1,849.40	1/2	1,490.19	1/2	1,132.96	1/2	786.12	1/2	426.92	1/2	68.18	1/2		1/2	
3/4	2,560.34	3/4	2,201.13	3/4	1,841.92	3/4	1,482.71	3/4	1,125.77	3/4	778.64	3/4	419.43	3/4	61.17	3/4		3/4	
2	2,552.86	2	2,193.65	2	1,834.43	2	1,475.22	2	1,118.57	2	771.15	2	411.95	2	54.15	2		2	
1/4	2,545.38	1/4	2,186.16	1/4	1,826.95	1/4	1,467.74	1/4	1,111.38	1/4	763.67	1/4	404.47	1/4	47.14	1/4		1/4	
1/2	2,537.89	1/2	2,178.68	1/2	1,819.47	1/2	1,460.25	1/2	1,104.19	1/2	756.19	1/2	396.98	1/2	41.52	1/2		1/2	
3/4	2,530.41	3/4	2,171.20	3/4	1,811.98	3/4	1,452.77	3/4	1,097.00	3/4	748.70	3/4	389.50	3/4	35.91	3/4		3/4	
3	2,522.93	3	2,163.71	3	1,804.50	3	1,445.29	3	1,089.82	3	741.22	3	382.02	3	30.30	3		3	
1/4	2,515.44	1/4	2,156.23	1/4	1,797.02	1/4	1,437.80	1/4	1,082.63	1/4	733.74	1/4	374.53	1/4	24.69	1/4		1/4	
1/2	2,507.96	1/2	2,148.75	1/2	1,789.53	1/2	1,430.32	1/2	1,075.45	1/2	726.25	1/2	367.05	1/2	20.94	1/2		1/2	
3/4	2,500.47	3/4	2,141.26	3/4	1,782.05	3/4	1,422.84	3/4	1,068.26	3/4	718.77	3/4	359.57	3/4		3/4		3/4	
4	2,492.99	4	2,133.78	4	1,774.57	4	1,415.35	4	1,061.08	4	711.29	4	352.08	4		4		4	
1/4	2,485.51	1/4	2,126.29	1/4	1,767.08	1/4	1,407.87	1/4	1,053.90	1/4	703.80	1/4	344.60	1/4		1/4		1/4	
1/2	2,478.02	1/2	2,118.81	1/2	1,759.60	1/2	1,400.39	1/2	1,046.72	1/2	696.32	1/2	337.12	1/2		1/2		1/2	
3/4	2,470.54	3/4	2,111.33	3/4	1,752.11	3/4	1,392.90	3/4	1,039.54	3/4	688.84	3/4	329.63	3/4		3/4		3/4	
5	2,463.06	5	2,103.84	5	1,744.63	5	1,385.42	5	1,032.36	5	681.35	5	322.15	5		5		5	
1/4	2,455.57	1/4	2,096.36	1/4	1,737.15	1/4	1,377.93	1/4	1,025.18	1/4	673.87	1/4	314.67	1/4		1/4		1/4	
1/2	2,448.09	1/2	2,088.88	1/2	1,729.66	1/2	1,370.45	1/2	1,018.00	1/2	666.39	1/2	307.18	1/2		1/2		1/2	
3/4	2,440.61	3/4	2,081.39	3/4	1,722.18	3/4	1,362.97	3/4	1,010.82	3/4	658.90	3/4	299.70	3/4		3/4		3/4	
6	2,433.12	6	2,073.91	6	1,714.70	6	1,355.48	6	1,003.64	6	651.42	6	292.22	6		6		6	
1/4	2,425.64	1/4	2,066.43	1/4	1,707.21	1/4	1,348.00	1/4	996.46	1/4	643.94	1/4	284.73	1/4		1/4		1/4	
1/2	2,418.16	1/2	2,058.94	1/2	1,699.73	1/2	1,340.52	1/2	989.28	1/2	636.45	1/2	277.25	1/2		1/2		1/2	
3/4	2,410.67	3/4	2,051.46	3/4	1,692.25	3/4	1,333.03	3/4	982.10	3/4	628.97	3/4	269.77	3/4		3/4		3/4	
7	2,403.19	7	2,043.98	7	1,684.76	7	1,325.55	7	974.92	7	621.49	7	262.28	7		7		7	
1/4	2,395.70	1/4	2,036.49	1/4	1,677.28	1/4	1,318.07	1/4	967.74	1/4	614.00	1/4	254.80	1/4		1/4		1/4	
1/2	2,388.22	1/2	2,029.01	1/2	1,669.80	1/2	1,310.58	1/2	960.56	1/2	606.52	1/2	247.32	1/2		1/2		1/2	
3/4	2,380.74	3/4	2,021.52	3/4	1,662.31	3/4	1,303.10	3/4	953.38	3/4	599.04	3/4	239.83	3/4		3/4		3/4	
8	2,373.25	8	2,014.04	8	1,654.83	8	1,295.62	8	946.20	8	591.55	8	232.35	8		8		8	
1/4	2,365.77	1/4	2,006.56	1/4	1,647.34	1/4	1,288.13	1/4	939.02	1/4	584.07	1/4	224.87	1/4		1/4		1/4	
1/2	2,358.29	1/2	1,999.07	1/2	1,639.86	1/2	1,280.65	1/2	931.84	1/2	576.59	1/2	217.38	1/2		1/2		1/2	
3/4	2,350.80	3/4	1,991.59	3/4	1,632.38	3/4	1,273.16	3/4	924.66	3/4	569.10	3/4	209.90	3/4		3/4		3/4	
9	2,343.32	9	1,984.11	9	1,624.89	9	1,265.68	9	917.48	9	561.62	9	202.42	9		9		9	
1/4	2,335.84	1/4	1,976.62	1/4	1,617.41	1/4	1,258.20	1/4	910.30	1/4	554.14	1/4	194.93	1/4		1/4		1/4	
1/2	2,328.35	1/2	1,969.14	1/2	1,609.93	1/2	1,250.71	1/2	903.12	1/2	546.65	1/2	187.45	1/2		1/2		1/2	
3/4	2,320.87	3/4	1,961.66	3/4	1,602.44	3/4	1,243.23	3/4	895.94	3/4	539.17	3/4	179.97	3/4		3/4		3/4	
10	2,313.38	10	1,954.17	10	1,594.96	10	1,235.75	10	888.76	10	531.69	10	172.48	10		10		10	
1/4	2,305.90	1/4	1,946.69	1/4	1,587.48	1/4	1,228.26	1/4	881.58	1/4	524.20	1/4	165.00	1/4		1/4		1/4	
1/2	2,298.42	1/2	1,939.20	1/2	1,579.99	1/2	1,220.78	1/2	874.40	1/2	516.72	1/2	157.52	1/2		1/2		1/2	
3/4	2,290.93	3/4	1,931.72	3/4	1,572.51	3/4	1,213.30	3/4	867.22	3/4	509.24	3/4	150.03	3/4		3/4		3/4	
11	2,283.45	11	1,924.24	11	1,565.02	11	1,205.81	11	860.04	11	501.75	11	142.55	11		11		11	
1/4	2,275.97	1/4	1,916.75	1/4	1,557.54	1/4	1,198.33	1/4	852.86	1/4	494.27	1/4	135.07	1/4		1/4		1/4	
1/2	2,268.48	1/2	1,909.27	1/2	1,550.06	1/2	1,190.99	1/2	845.53	1/2	486.79	1/2	127.58	1/2		1/2		1/2	
3/4	2,261.00	3/4	1,901.79	3/4	1,542.57	3/4	1,183.64	3/4	838.20	3/4	479.30	3/4	120.10	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/19/2013 CL
RECALCULATED: 01/05/2019 CL
VERIFIED: 12/28/2023 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2023

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



BARGE "HTCO 3111"

2 STBD
ULLAGE TABLE

HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 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		0		0	4,784.08	0	4,426.63	0	4,067.93	0	3,709.12	0	3,350.32	0	2,991.51
1/4		1/4		1/4		1/4		1/4	4,776.66	1/4	4,419.18	1/4	4,060.45	1/4	3,701.65	1/4	3,342.84	1/4	2,984.03
1/2		1/2		1/2		1/2		1/2	4,769.25	1/2	4,411.73	1/2	4,052.98	1/2	3,694.17	1/2	3,335.37	1/2	2,976.56
3/4		3/4		3/4		3/4		3/4	4,761.84	3/4	4,404.27	3/4	4,045.50	3/4	3,686.70	3/4	3,327.89	3/4	2,969.08
1		1		1		1		1	4,754.42	1	4,397.80	1	4,038.02	1	3,679.22	1	3,320.42	1	2,961.60
1/4		1/4		1/4		1/4		1/4	5,091.22	1/4	4,747.01	1/4	4,389.34	1/4	4,030.55	1/4	3,671.74	1/4	3,312.94
1/2		1/2		1/2		1/2		1/2	5,086.47	1/2	4,739.59	1/2	4,381.88	1/2	4,023.07	1/2	3,664.27	1/2	3,305.47
3/4		3/4		3/4		3/4		3/4	5,080.66	3/4	4,732.16	3/4	4,374.40	3/4	4,015.60	3/4	3,656.79	3/4	3,297.99
2		2		2		2		2	5,074.84	2	4,724.73	2	4,366.93	2	4,008.12	2	3,649.32	2	3,290.51
1/4		1/4		1/4		1/4		1/4	5,069.03	1/4	4,717.30	1/4	4,359.45	1/4	4,000.65	1/4	3,641.84	1/4	3,283.04
1/2		1/2		1/2		1/2		1/2	5,063.21	1/2	4,709.86	1/2	4,351.98	1/2	3,993.17	1/2	3,634.37	1/2	3,275.56
3/4		3/4		3/4		3/4		3/4	5,056.40	3/4	4,702.41	3/4	4,344.50	3/4	3,985.70	3/4	3,626.89	3/4	3,268.09
3		3		3		3		3	5,049.58	3	4,694.96	3	4,337.03	3	3,978.22	3	3,619.42	3	3,260.61
1/4		1/4		1/4		1/4		1/4	5,042.76	1/4	4,687.50	1/4	4,329.55	1/4	3,970.75	1/4	3,611.94	1/4	3,253.14
1/2		1/2		1/2		1/2		1/2	5,035.95	1/2	4,680.05	1/2	4,322.08	1/2	3,963.27	1/2	3,604.47	1/2	3,245.66
3/4		3/4		3/4		3/4		3/4	5,028.59	3/4	4,672.60	3/4	4,314.60	3/4	3,955.80	3/4	3,596.99	3/4	3,238.19
4		4		4		4		4	5,021.24	4	4,665.14	4	4,307.13	4	3,948.32	4	3,589.52	4	3,230.71
1/4		1/4		1/4		1/4		1/4	5,013.89	1/4	4,657.69	1/4	4,299.65	1/4	3,940.85	1/4	3,582.04	1/4	3,223.24
1/2		1/2		1/2		1/2		1/2	5,006.54	1/2	4,650.24	1/2	4,292.18	1/2	3,933.37	1/2	3,574.57	1/2	3,215.76
3/4		3/4		3/4		3/4		3/4	4,999.12	3/4	4,642.78	3/4	4,284.70	3/4	3,925.90	3/4	3,567.09	3/4	3,208.29
5		5		5		5		5	4,991.71	5	4,635.33	5	4,277.23	5	3,918.42	5	3,559.62	5	3,200.81
1/4		1/4		1/4		1/4		1/4	4,984.29	1/4	4,627.88	1/4	4,269.75	1/4	3,910.95	1/4	3,552.14	1/4	3,193.34
1/2		1/2		1/2		1/2		1/2	4,976.87	1/2	4,620.42	1/2	4,262.28	1/2	3,903.47	1/2	3,544.67	1/2	3,185.86
3/4		3/4		3/4		3/4		3/4	4,969.45	3/4	4,612.97	3/4	4,254.80	3/4	3,896.00	3/4	3,537.19	3/4	3,178.39
6		6		6		6		6	4,962.03	6	4,605.52	6	4,247.33	6	3,888.52	6	3,529.72	6	3,170.91
1/4		1/4		1/4		1/4		1/4	4,954.62	1/4	4,598.06	1/4	4,239.85	1/4	3,881.05	1/4	3,522.24	1/4	3,163.44
1/2		1/2		1/2		1/2		1/2	4,947.20	1/2	4,590.61	1/2	4,232.38	1/2	3,873.57	1/2	3,514.77	1/2	3,155.96
3/4		3/4		3/4		3/4		3/4	4,939.78	3/4	4,583.16	3/4	4,224.90	3/4	3,866.10	3/4	3,507.29	3/4	3,148.49
7		7		7		7		7	4,932.36	7	4,575.70	7	4,217.43	7	3,858.62	7	3,499.82	7	3,141.01
1/4		1/4		1/4		1/4		1/4	4,924.95	1/4	4,568.25	1/4	4,209.95	1/4	3,851.15	1/4	3,492.34	1/4	3,133.54
1/2		1/2		1/2		1/2		1/2	4,917.53	1/2	4,560.80	1/2	4,202.48	1/2	3,843.67	1/2	3,484.87	1/2	3,126.06
3/4		3/4		3/4		3/4		3/4	4,910.11	3/4	4,553.34	3/4	4,195.00	3/4	3,836.20	3/4	3,477.39	3/4	3,118.59
8		8		8		8		8	4,902.70	8	4,545.89	8	4,187.53	8	3,828.72	8	3,469.92	8	3,111.11
1/4		1/4		1/4		1/4		1/4	4,895.28	1/4	4,538.43	1/4	4,180.05	1/4	3,821.25	1/4	3,462.44	1/4	3,103.64
1/2		1/2		1/2		1/2		1/2	4,887.87	1/2	4,530.98	1/2	4,172.58	1/2	3,813.77	1/2	3,454.97	1/2	3,096.16
3/4		3/4		3/4		3/4		3/4	4,880.45	3/4	4,523.53	3/4	4,165.10	3/4	3,806.30	3/4	3,447.49	3/4	3,088.69
9		9		9		9		9	4,873.04	9	4,516.07	9	4,157.63	9	3,798.82	9	3,440.02	9	3,081.21
1/4		1/4		1/4		1/4		1/4	4,865.63	1/4	4,508.62	1/4	4,150.15	1/4	3,791.35	1/4	3,432.54	1/4	3,073.74
1/2		1/2		1/2		1/2		1/2	4,858.21	1/2	4,501.17	1/2	4,142.68	1/2	3,783.87	1/2	3,425.07	1/2	3,066.26
3/4		3/4		3/4		3/4		3/4	4,850.80	3/4	4,493.71	3/4	4,135.20	3/4	3,776.40	3/4	3,417.59	3/4	3,058.79
10		10		10		10		10	4,843.39	10	4,486.26	10	4,127.73	10	3,768.92	10	3,410.12	10	3,051.31
1/4		1/4		1/4		1/4		1/4	4,835.97	1/4	4,478.81	1/4	4,120.25	1/4	3,761.45	1/4	3,402.64	1/4	3,043.84
1/2		1/2		1/2		1/2		1/2	4,828.56	1/2	4,471.35	1/2	4,112.78	1/2	3,753.97	1/2	3,395.17	1/2	3,036.36
3/4		3/4		3/4		3/4		3/4	4,821.14	3/4	4,463.90	3/4	4,105.30	3/4	3,746.50	3/4	3,387.69	3/4	3,028.89
11		11		11		11		11	4,813.73	11	4,456.45	11	4,097.83	11	3,739.02	11	3,380.22	11	3,021.41
1/4		1/4		1/4		1/4		1/4	4,806.32	1/4	4,448.99	1/4	4,090.35	1/4	3,731.55	1/4	3,372.74	1/4	3,013.94
1/2		1/2		1/2		1/2		1/2	4,798.90	1/2	4,441.54	1/2	4,082.88	1/2	3,724.07	1/2	3,365.27	1/2	3,006.46
3/4		3/4		3/4		3/4		3/4	4,791.49	3/4	4,434.09	3/4	4,075.40	3/4	3,716.60	3/4	3,357.79	3/4	2,998.99

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 HERMETIC DEVICE
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 41'-06" 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 "HTCO 3111"

2 STBD

ULLAGE TABLE

HERMETIC

GAUGE HEIGHT 17'-03 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,632.52	0	2,273.52	0	1,914.53	0	1,555.53	0	1,196.53	0	837.99	0	479.01	0	120.03	0		0	
1/4	2,625.04	1/4	2,266.04	1/4	1,907.05	1/4	1,548.05	1/4	1,189.05	1/4	830.52	1/4	471.54	1/4	112.55	1/4		1/4	
1/2	2,617.56	1/2	2,258.57	1/2	1,899.57	1/2	1,540.57	1/2	1,181.57	1/2	823.04	1/2	464.06	1/2	105.07	1/2		1/2	
3/4	2,610.08	3/4	2,251.09	3/4	1,892.09	3/4	1,533.09	3/4	1,174.10	3/4	815.56	3/4	456.58	3/4	97.59	3/4		3/4	
1	2,602.60	1	2,243.61	1	1,884.61	1	1,525.61	1	1,166.62	1	808.09	1	449.10	1	90.11	1		1	
1/4	2,595.12	1/4	2,236.13	1/4	1,877.13	1/4	1,518.13	1/4	1,159.14	1/4	800.61	1/4	441.62	1/4	82.63	1/4		1/4	
1/2	2,587.65	1/2	2,228.65	1/2	1,869.65	1/2	1,510.66	1/2	1,151.66	1/2	793.13	1/2	434.14	1/2	75.15	1/2		1/2	
3/4	2,580.17	3/4	2,221.17	3/4	1,862.17	3/4	1,503.18	3/4	1,144.18	3/4	785.65	3/4	426.66	3/4	68.14	3/4		3/4	
2	2,572.69	2	2,213.69	2	1,854.69	2	1,495.70	2	1,136.71	2	778.17	2	419.18	2	61.13	2		2	
1/4	2,565.21	1/4	2,206.21	1/4	1,847.21	1/4	1,488.22	1/4	1,129.23	1/4	770.69	1/4	411.70	1/4	54.12	1/4		1/4	
1/2	2,557.73	1/2	2,198.73	1/2	1,839.74	1/2	1,480.74	1/2	1,121.75	1/2	763.21	1/2	404.23	1/2	47.11	1/2		1/2	
3/4	2,550.25	3/4	2,191.25	3/4	1,832.26	3/4	1,473.26	3/4	1,114.28	3/4	755.73	3/4	396.75	3/4	41.50	3/4		3/4	
3	2,542.77	3	2,183.77	3	1,824.78	3	1,465.78	3	1,106.81	3	748.25	3	389.27	3	35.89	3		3	
1/4	2,535.29	1/4	2,176.29	1/4	1,817.30	1/4	1,458.30	1/4	1,099.33	1/4	740.78	1/4	381.79	1/4	30.28	1/4		1/4	
1/2	2,527.81	1/2	2,168.82	1/2	1,809.82	1/2	1,450.82	1/2	1,091.86	1/2	733.30	1/2	374.31	1/2	24.67	1/2		1/2	
3/4	2,520.33	3/4	2,161.34	3/4	1,802.34	3/4	1,443.34	3/4	1,084.39	3/4	725.82	3/4	366.83	3/4	20.93	3/4		3/4	
4	2,512.85	4	2,153.86	4	1,794.86	4	1,435.86	4	1,076.92	4	718.34	4	359.35	4		4		4	
1/4	2,505.38	1/4	2,146.38	1/4	1,787.38	1/4	1,428.38	1/4	1,069.45	1/4	710.86	1/4	351.87	1/4		1/4		1/4	
1/2	2,497.90	1/2	2,138.90	1/2	1,779.90	1/2	1,420.91	1/2	1,061.98	1/2	703.38	1/2	344.39	1/2		1/2		1/2	
3/4	2,490.42	3/4	2,131.42	3/4	1,772.42	3/4	1,413.43	3/4	1,054.51	3/4	695.90	3/4	336.92	3/4		3/4		3/4	
5	2,482.94	5	2,123.94	5	1,764.94	5	1,405.95	5	1,047.05	5	688.42	5	329.44	5		5		5	
1/4	2,475.46	1/4	2,116.46	1/4	1,757.47	1/4	1,398.47	1/4	1,039.58	1/4	680.94	1/4	321.96	1/4		1/4		1/4	
1/2	2,467.98	1/2	2,108.98	1/2	1,749.99	1/2	1,390.99	1/2	1,032.12	1/2	673.47	1/2	314.48	1/2		1/2		1/2	
3/4	2,460.50	3/4	2,101.50	3/4	1,742.51	3/4	1,383.51	3/4	1,024.65	3/4	665.99	3/4	307.00	3/4		3/4		3/4	
6	2,453.02	6	2,094.02	6	1,735.03	6	1,376.03	6	1,017.18	6	658.51	6	299.52	6		6		6	
1/4	2,445.54	1/4	2,086.55	1/4	1,727.55	1/4	1,368.55	1/4	1,009.72	1/4	651.03	1/4	292.04	1/4		1/4		1/4	
1/2	2,438.06	1/2	2,079.07	1/2	1,720.07	1/2	1,361.07	1/2	1,002.25	1/2	643.55	1/2	284.56	1/2		1/2		1/2	
3/4	2,430.58	3/4	2,071.59	3/4	1,712.59	3/4	1,353.59	3/4	994.78	3/4	636.07	3/4	277.08	3/4		3/4		3/4	
7	2,423.11	7	2,064.11	7	1,705.11	7	1,346.11	7	987.32	7	628.59	7	269.61	7		7		7	
1/4	2,415.63	1/4	2,056.63	1/4	1,697.63	1/4	1,338.64	1/4	979.85	1/4	621.11	1/4	262.13	1/4		1/4		1/4	
1/2	2,408.15	1/2	2,049.15	1/2	1,690.15	1/2	1,331.16	1/2	972.39	1/2	613.63	1/2	254.65	1/2		1/2		1/2	
3/4	2,400.67	3/4	2,041.67	3/4	1,682.67	3/4	1,323.68	3/4	964.92	3/4	606.16	3/4	247.17	3/4		3/4		3/4	
8	2,393.19	8	2,034.19	8	1,675.20	8	1,316.20	8	957.45	8	598.68	8	239.69	8		8		8	
1/4	2,385.71	1/4	2,026.71	1/4	1,667.72	1/4	1,308.72	1/4	949.99	1/4	591.20	1/4	232.21	1/4		1/4		1/4	
1/2	2,378.23	1/2	2,019.23	1/2	1,660.24	1/2	1,301.24	1/2	942.52	1/2	583.72	1/2	224.73	1/2		1/2		1/2	
3/4	2,370.75	3/4	2,011.75	3/4	1,652.76	3/4	1,293.76	3/4	935.06	3/4	576.24	3/4	217.25	3/4		3/4		3/4	
9	2,363.27	9	2,004.28	9	1,645.28	9	1,286.28	9	927.59	9	568.76	9	209.77	9		9		9	
1/4	2,355.79	1/4	1,996.80	1/4	1,637.80	1/4	1,278.80	1/4	920.12	1/4	561.28	1/4	202.30	1/4		1/4		1/4	
1/2	2,348.31	1/2	1,989.32	1/2	1,630.32	1/2	1,271.32	1/2	912.66	1/2	553.80	1/2	194.82	1/2		1/2		1/2	
3/4	2,340.84	3/4	1,981.84	3/4	1,622.84	3/4	1,263.84	3/4	905.19	3/4	546.32	3/4	187.34	3/4		3/4		3/4	
10	2,333.36	10	1,974.36	10	1,615.36	10	1,256.37	10	897.73	10	538.85	10	179.86	10		10		10	
1/4	2,325.88	1/4	1,966.88	1/4	1,607.88	1/4	1,248.89	1/4	890.26	1/4	531.37	1/4	172.38	1/4		1/4		1/4	
1/2	2,318.40	1/2	1,959.40	1/2	1,600.40	1/2	1,241.41	1/2	882.79	1/2	523.89	1/2	164.90	1/2		1/2		1/2	
3/4	2,310.92	3/4	1,951.92	3/4	1,592.93	3/4	1,233.93	3/4	875.33	3/4	516.41	3/4	157.42	3/4		3/4		3/4	
11	2,303.44	11	1,944.44	11	1,585.45	11	1,226.45	11	867.86	11	508.93	11	149.94	11		11		11	
1/4	2,295.96	1/4	1,936.96	1/4	1,577.97	1/4	1,218.97	1/4	860.39	1/4	501.45	1/4	142.46	1/4		1/4		1/4	
1/2	2,288.48	1/2	1,929.48	1/2	1,570.49	1/2	1,211.49	1/2	852.93	1/2	493.97	1/2	134.99	1/2		1/2		1/2	
3/4	2,281.00	3/4	1,922.01	3/4	1,563.01	3/4	1,204.01	3/4	845.46	3/4	486.49	3/4	127.51	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/19/2013 CL
RECALCULATED: 01/05/2019 CL
VERIFIED: 12/28/2023 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2023

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



BARGE "HTCO 3111"

3 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 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		0		0		0		0	4,379.78	0	4,133.27	0	3,885.92	0	3,638.52	0	3,311.92	0	2,955.28
1/4		1/4		1/4		1/4		1/4	4,374.66	1/4	4,128.13	1/4	3,880.76	1/4	3,633.37	1/4	3,304.51	1/4	2,947.85
1/2		1/2		1/2		1/2		1/2	4,369.55	1/2	4,122.98	1/2	3,875.61	1/2	3,628.22	1/2	3,297.10	1/2	2,940.41
3/4		3/4		3/4		3/4		3/4	4,364.44	3/4	4,117.83	3/4	3,870.45	3/4	3,623.06	3/4	3,289.68	3/4	2,932.98
1		1		1		1	4,593.06	1	4,359.33	1	4,112.69	1	3,865.30	1	3,617.91	1	3,282.27	1	2,925.54
1/4		1/4		1/4		1/4	4,590.61	1/4	4,354.21	1/4	4,107.54	1/4	3,860.15	1/4	3,612.75	1/4	3,274.86	1/4	2,918.11
1/2		1/2		1/2		1/2	4,587.09	1/2	4,349.09	1/2	4,102.38	1/2	3,854.99	1/2	3,607.60	1/2	3,267.44	1/2	2,910.67
3/4		3/4		3/4		3/4	4,583.58	3/4	4,343.96	3/4	4,097.23	3/4	3,849.84	3/4	3,602.45	3/4	3,260.01	3/4	2,903.23
2		2		2		2	4,580.06	2	4,338.84	2	4,092.08	2	3,844.68	2	3,597.29	2	3,252.59	2	2,895.80
1/4		1/4		1/4		1/4	4,576.54	1/4	4,333.71	1/4	4,086.92	1/4	3,839.53	1/4	3,592.14	1/4	3,245.17	1/4	2,888.36
1/2		1/2		1/2		1/2	4,572.03	1/2	4,328.57	1/2	4,081.77	1/2	3,834.38	1/2	3,586.41	1/2	3,237.74	1/2	2,880.93
3/4		3/4		3/4		3/4	4,567.51	3/4	4,323.43	3/4	4,076.61	3/4	3,829.22	3/4	3,580.68	3/4	3,230.30	3/4	2,873.49
3		3		3		3	4,563.00	3	4,318.29	3	4,071.46	3	3,824.07	3	3,574.95	3	3,222.87	3	2,866.06
1/4		1/4		1/4		1/4	4,558.48	1/4	4,313.15	1/4	4,066.31	1/4	3,818.91	1/4	3,569.22	1/4	3,215.44	1/4	2,858.62
1/2		1/2		1/2		1/2	4,553.43	1/2	4,308.01	1/2	4,061.15	1/2	3,813.76	1/2	3,562.36	1/2	3,208.00	1/2	2,851.18
3/4		3/4		3/4		3/4	4,548.39	3/4	4,302.87	3/4	4,056.00	3/4	3,808.61	3/4	3,555.50	3/4	3,200.57	3/4	2,843.75
4		4		4		4	4,543.34	4	4,297.73	4	4,050.84	4	3,803.45	4	3,548.63	4	3,193.14	4	2,836.31
1/4		1/4		1/4		1/4	4,538.29	1/4	4,292.59	1/4	4,045.69	1/4	3,798.30	1/4	3,541.77	1/4	3,185.71	1/4	2,828.88
1/2		1/2		1/2		1/2	4,533.17	1/2	4,287.45	1/2	4,040.54	1/2	3,793.14	1/2	3,534.34	1/2	3,178.27	1/2	2,821.44
3/4		3/4		3/4		3/4	4,528.06	3/4	4,282.31	3/4	4,035.38	3/4	3,787.99	3/4	3,526.92	3/4	3,170.84	3/4	2,814.01
5		5		5		5	4,522.95	5	4,277.17	5	4,030.23	5	3,782.84	5	3,519.50	5	3,163.41	5	2,806.57
1/4		1/4		1/4		1/4	4,517.83	1/4	4,272.04	1/4	4,025.07	1/4	3,777.68	1/4	3,512.07	1/4	3,155.97	1/4	2,799.14
1/2		1/2		1/2		1/2	4,512.72	1/2	4,266.90	1/2	4,019.92	1/2	3,772.53	1/2	3,504.65	1/2	3,148.54	1/2	2,791.70
3/4		3/4		3/4		3/4	4,507.60	3/4	4,261.76	3/4	4,014.77	3/4	3,767.37	3/4	3,497.24	3/4	3,141.11	3/4	2,784.26
6		6		6		6	4,502.49	6	4,256.62	6	4,009.61	6	3,762.22	6	3,489.82	6	3,133.68	6	2,776.83
1/4		1/4		1/4		1/4	4,497.37	1/4	4,251.48	1/4	4,004.46	1/4	3,757.07	1/4	3,482.40	1/4	3,126.24	1/4	2,769.39
1/2		1/2		1/2		1/2	4,492.26	1/2	4,246.34	1/2	3,999.30	1/2	3,751.91	1/2	3,474.99	1/2	3,118.81	1/2	2,761.96
3/4		3/4		3/4		3/4	4,487.14	3/4	4,241.20	3/4	3,994.15	3/4	3,746.76	3/4	3,467.58	3/4	3,111.38	3/4	2,754.52
7		7		7		7	4,482.03	7	4,236.06	7	3,989.00	7	3,741.60	7	3,460.16	7	3,103.94	7	2,747.09
1/4		1/4		1/4		1/4	4,476.91	1/4	4,230.92	1/4	3,983.84	1/4	3,736.45	1/4	3,452.75	1/4	3,096.51	1/4	2,739.65
1/2		1/2		1/2		1/2	4,471.80	1/2	4,225.78	1/2	3,978.69	1/2	3,731.30	1/2	3,445.34	1/2	3,089.08	1/2	2,732.22
3/4		3/4		3/4		3/4	4,466.68	3/4	4,220.64	3/4	3,973.53	3/4	3,726.14	3/4	3,437.93	3/4	3,081.65	3/4	2,724.78
8		8		8		8	4,461.57	8	4,215.50	8	3,968.38	8	3,720.99	8	3,430.52	8	3,074.21	8	2,717.34
1/4		1/4		1/4		1/4	4,456.46	1/4	4,210.36	1/4	3,963.23	1/4	3,715.83	1/4	3,423.10	1/4	3,066.78	1/4	2,709.91
1/2		1/2		1/2		1/2	4,451.35	1/2	4,205.22	1/2	3,958.07	1/2	3,710.68	1/2	3,415.69	1/2	3,059.35	1/2	2,702.47
3/4		3/4		3/4		3/4	4,446.23	3/4	4,200.08	3/4	3,952.92	3/4	3,705.53	3/4	3,408.28	3/4	3,051.91	3/4	2,695.04
9		9		9		9	4,441.12	9	4,194.94	9	3,947.76	9	3,700.37	9	3,400.87	9	3,044.48	9	2,687.60
1/4		1/4		1/4		1/4	4,436.01	1/4	4,189.80	1/4	3,942.61	1/4	3,695.22	1/4	3,393.46	1/4	3,037.05	1/4	2,680.17
1/2		1/2		1/2		1/2	4,430.90	1/2	4,184.66	1/2	3,937.46	1/2	3,690.06	1/2	3,386.04	1/2	3,029.61	1/2	2,672.73
3/4		3/4		3/4		3/4	4,425.79	3/4	4,179.52	3/4	3,932.30	3/4	3,684.91	3/4	3,378.63	3/4	3,022.18	3/4	2,665.29
10		10		10		10	4,420.67	10	4,174.38	10	3,927.15	10	3,679.76	10	3,371.22	10	3,014.75	10	2,657.86
1/4		1/4		1/4		1/4	4,415.56	1/4	4,169.25	1/4	3,921.99	1/4	3,674.60	1/4	3,363.81	1/4	3,007.32	1/4	2,650.42
1/2		1/2		1/2		1/2	4,410.45	1/2	4,164.11	1/2	3,916.84	1/2	3,669.45	1/2	3,356.39	1/2	2,999.88	1/2	2,642.99
3/4		3/4		3/4		3/4	4,405.34	3/4	4,158.97	3/4	3,911.69	3/4	3,664.29	3/4	3,348.98	3/4	2,992.45	3/4	2,635.55
11		11		11		11	4,400.22	11	4,153.83	11	3,906.53	11	3,659.14	11	3,341.57	11	2,985.02	11	2,628.12
1/4		1/4		1/4		1/4	4,395.11	1/4	4,148.69	1/4	3,901.38	1/4	3,653.99	1/4	3,334.16	1/4	2,977.58	1/4	2,620.68
1/2		1/2		1/2		1/2	4,390.00	1/2	4,143.55	1/2	3,896.22	1/2	3,648.83	1/2	3,326.75	1/2	2,970.15	1/2	2,613.24
3/4		3/4		3/4		3/4	4,384.89	3/4	4,138.41	3/4	3,891.07	3/4	3,643.68	3/4	3,319.33	3/4	2,962.72	3/4	2,605.80

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 HERMETIC DEVICE
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 41'-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 "HTCO 3111"

3 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,598.36	0	2,242.41	0	1,888.06	0	1,530.83	0	1,173.89	0	827.02	0	469.67	0	112.23	0		0	
1/4	2,590.92	1/4	2,235.02	1/4	1,880.65	1/4	1,523.39	1/4	1,166.55	1/4	819.69	1/4	462.23	1/4	104.78	1/4		1/4	
1/2	2,583.48	1/2	2,227.64	1/2	1,873.21	1/2	1,515.95	1/2	1,159.32	1/2	812.24	1/2	454.78	1/2	97.32	1/2		1/2	
3/4	2,576.04	3/4	2,220.26	3/4	1,865.77	3/4	1,508.51	3/4	1,152.09	3/4	804.79	3/4	447.34	3/4	89.87	3/4		3/4	
1	2,568.60	1	2,212.88	1	1,858.32	1	1,501.06	1	1,144.86	1	797.34	1	439.89	1	82.41	1		1	
1/4	2,561.15	1/4	2,205.50	1/4	1,850.88	1/4	1,493.62	1/4	1,137.62	1/4	789.90	1/4	432.44	1/4	74.96	1/4		1/4	
1/2	2,553.71	1/2	2,198.12	1/2	1,843.44	1/2	1,486.18	1/2	1,130.40	1/2	782.45	1/2	425.00	1/2	67.96	1/2		1/2	
3/4	2,546.27	3/4	2,190.74	3/4	1,835.99	3/4	1,478.73	3/4	1,123.17	3/4	775.00	3/4	417.55	3/4	60.97	3/4		3/4	
2	2,538.82	2	2,183.36	2	1,828.55	2	1,471.29	2	1,115.94	2	767.56	2	410.11	2	53.98	2		2	
1/4	2,531.38	1/4	2,175.98	1/4	1,821.11	1/4	1,463.85	1/4	1,108.72	1/4	760.11	1/4	402.66	1/4	46.98	1/4		1/4	
1/2	2,523.94	1/2	2,168.60	1/2	1,813.66	1/2	1,456.41	1/2	1,101.50	1/2	752.66	1/2	395.21	1/2	41.39	1/2		1/2	
3/4	2,516.50	3/4	2,161.22	3/4	1,806.22	3/4	1,448.96	3/4	1,094.28	3/4	745.21	3/4	387.77	3/4	35.80	3/4		3/4	
3	2,509.05	3	2,153.84	3	1,798.78	3	1,441.52	3	1,087.06	3	737.77	3	380.32	3	30.20	3		3	
1/4	2,501.61	1/4	2,146.46	1/4	1,791.34	1/4	1,434.08	1/4	1,079.84	1/4	730.32	1/4	372.88	1/4	24.61	1/4		1/4	
1/2	2,494.19	1/2	2,139.08	1/2	1,783.89	1/2	1,426.63	1/2	1,072.62	1/2	722.87	1/2	365.43	1/2	20.88	1/2		1/2	
3/4	2,486.76	3/4	2,131.70	3/4	1,776.45	3/4	1,419.19	3/4	1,065.40	3/4	715.43	3/4	357.99	3/4		3/4		3/4	
4	2,479.34	4	2,124.32	4	1,769.01	4	1,411.75	4	1,058.19	4	707.98	4	350.54	4		4		4	
1/4	2,471.91	1/4	2,116.94	1/4	1,761.56	1/4	1,404.31	1/4	1,050.97	1/4	700.53	1/4	343.09	1/4		1/4		1/4	
1/2	2,464.51	1/2	2,109.56	1/2	1,754.12	1/2	1,396.86	1/2	1,043.76	1/2	693.09	1/2	335.65	1/2		1/2		1/2	
3/4	2,457.11	3/4	2,102.18	3/4	1,746.68	3/4	1,389.42	3/4	1,036.54	3/4	685.64	3/4	328.20	3/4		3/4		3/4	
5	2,449.70	5	2,094.80	5	1,739.24	5	1,381.98	5	1,029.33	5	678.19	5	320.76	5		5		5	
1/4	2,442.30	1/4	2,087.42	1/4	1,731.79	1/4	1,374.53	1/4	1,022.12	1/4	670.74	1/4	313.31	1/4		1/4		1/4	
1/2	2,434.89	1/2	2,080.04	1/2	1,724.35	1/2	1,367.09	1/2	1,014.90	1/2	663.30	1/2	305.87	1/2		1/2		1/2	
3/4	2,427.49	3/4	2,072.66	3/4	1,716.91	3/4	1,359.65	3/4	1,007.69	3/4	655.85	3/4	298.42	3/4		3/4		3/4	
6	2,420.08	6	2,065.28	6	1,709.46	6	1,352.21	6	1,000.48	6	648.40	6	290.97	6		6		6	
1/4	2,412.68	1/4	2,057.90	1/4	1,702.02	1/4	1,344.76	1/4	993.27	1/4	640.96	1/4	283.53	1/4		1/4		1/4	
1/2	2,405.28	1/2	2,050.52	1/2	1,694.58	1/2	1,337.32	1/2	986.05	1/2	633.51	1/2	276.08	1/2		1/2		1/2	
3/4	2,397.87	3/4	2,043.14	3/4	1,687.14	3/4	1,329.88	3/4	978.84	3/4	626.06	3/4	268.64	3/4		3/4		3/4	
7	2,390.47	7	2,035.76	7	1,679.69	7	1,322.43	7	971.63	7	618.61	7	261.19	7		7		7	
1/4	2,383.06	1/4	2,028.38	1/4	1,672.25	1/4	1,314.99	1/4	964.41	1/4	611.17	1/4	253.74	1/4		1/4		1/4	
1/2	2,375.66	1/2	2,021.00	1/2	1,664.81	1/2	1,307.55	1/2	957.20	1/2	603.72	1/2	246.30	1/2		1/2		1/2	
3/4	2,368.25	3/4	2,013.62	3/4	1,657.36	3/4	1,300.10	3/4	949.99	3/4	596.27	3/4	238.85	3/4		3/4		3/4	
8	2,360.85	8	2,006.24	8	1,649.92	8	1,292.66	8	942.78	8	588.83	8	231.41	8		8		8	
1/4	2,353.44	1/4	1,998.86	1/4	1,642.48	1/4	1,285.22	1/4	935.56	1/4	581.38	1/4	223.96	1/4		1/4		1/4	
1/2	2,346.04	1/2	1,991.48	1/2	1,635.04	1/2	1,277.78	1/2	928.35	1/2	573.93	1/2	216.51	1/2		1/2		1/2	
3/4	2,338.64	3/4	1,984.10	3/4	1,627.59	3/4	1,270.33	3/4	921.14	3/4	566.48	3/4	209.06	3/4		3/4		3/4	
9	2,331.23	9	1,976.72	9	1,620.15	9	1,262.89	9	913.92	9	559.04	9	201.62	9		9		9	
1/4	2,323.83	1/4	1,969.34	1/4	1,612.71	1/4	1,255.45	1/4	906.71	1/4	551.59	1/4	194.17	1/4		1/4		1/4	
1/2	2,316.42	1/2	1,961.96	1/2	1,605.26	1/2	1,248.00	1/2	899.50	1/2	544.14	1/2	186.72	1/2		1/2		1/2	
3/4	2,309.02	3/4	1,954.58	3/4	1,597.82	3/4	1,240.56	3/4	892.28	3/4	536.70	3/4	179.28	3/4		3/4		3/4	
10	2,301.61	10	1,947.20	10	1,590.38	10	1,233.12	10	885.07	10	529.25	10	171.83	10		10		10	
1/4	2,294.21	1/4	1,939.82	1/4	1,582.94	1/4	1,225.68	1/4	877.86	1/4	521.80	1/4	164.38	1/4		1/4		1/4	
1/2	2,286.80	1/2	1,932.44	1/2	1,575.49	1/2	1,218.23	1/2	870.65	1/2	514.35	1/2	156.93	1/2		1/2		1/2	
3/4	2,279.40	3/4	1,925.06	3/4	1,568.05	3/4	1,210.79	3/4	863.43	3/4	506.91	3/4	149.48	3/4		3/4		3/4	
11	2,272.00	11	1,917.68	11	1,560.61	11	1,203.35	11	856.22	11	499.46	11	142.03	11		11		11	
1/4	2,264.59	1/4	1,910.30	1/4	1,553.16	1/4	1,195.90	1/4	849.01	1/4	492.01	1/4	134.59	1/4		1/4		1/4	
1/2	2,257.20	1/2	1,902.89	1/2	1,545.72	1/2	1,188.57	1/2	841.68	1/2	484.57	1/2	127.13	1/2		1/2		1/2	
3/4	2,249.81	3/4	1,895.48	3/4	1,538.28	3/4	1,181.23	3/4	834.35	3/4	477.12	3/4	119.68	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/19/2013 CL
RECALCULATED: 01/05/2019 CL
VERIFIED: 12/28/2023 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2023

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



BARGE "HTCO 3111"

3 STBD
ULLAGE TABLE

HERMETIC

GAUGE HEIGHT 17'-03 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0		0	4,405.62	0	4,159.14	0	3,911.79	0	3,664.39	0	3,339.68	0	2,982.37
1/4		1/4		1/4		1/4		1/4	4,400.51	1/4	4,154.00	1/4	3,906.64	1/4	3,659.24	1/4	3,332.25	1/4	2,974.92
1/2		1/2		1/2		1/2		1/2	4,395.40	1/2	4,148.86	1/2	3,901.48	1/2	3,654.08	1/2	3,324.83	1/2	2,967.47
3/4		3/4		3/4		3/4		3/4	4,390.29	3/4	4,143.71	3/4	3,896.33	3/4	3,648.93	3/4	3,317.40	3/4	2,960.02
1		1		1		1		1	4,385.17	1	4,138.56	1	3,891.17	1	3,643.78	1	3,309.97	1	2,952.57
1/4		1/4		1/4		1/4		1/4	4,613.81	1/4	4,380.06	1/4	4,133.41	1/4	3,886.02	1/4	3,638.62	1/4	3,302.55
1/2		1/2		1/2		1/2		1/2	4,611.36	1/2	4,374.95	1/2	4,128.26	1/2	3,880.87	1/2	3,633.47	1/2	3,295.12
3/4		3/4		3/4		3/4		3/4	4,607.84	3/4	4,369.82	3/4	4,123.11	3/4	3,875.71	3/4	3,628.31	3/4	3,287.68
2		2		2		2		2	4,604.32	2	4,364.70	2	4,117.95	2	3,870.56	2	3,623.16	2	3,282.25
1/4		1/4		1/4		1/4		1/4	4,600.81	1/4	4,359.57	1/4	4,112.80	1/4	3,865.40	1/4	3,618.01	1/4	3,272.81
1/2		1/2		1/2		1/2		1/2	4,597.29	1/2	4,354.45	1/2	4,107.65	1/2	3,860.25	1/2	3,612.85	1/2	3,265.37
3/4		3/4		3/4		3/4		3/4	4,592.77	3/4	4,349.31	3/4	4,102.49	3/4	3,855.09	3/4	3,607.12	3/4	3,257.92
3		3		3		3		3	4,588.26	3	4,344.17	3	4,097.34	3	3,849.94	3	3,601.39	3	3,250.48
1/4		1/4		1/4		1/4		1/4	4,583.74	1/4	4,339.03	1/4	4,092.18	1/4	3,844.79	1/4	3,595.67	1/4	3,243.03
1/2		1/2		1/2		1/2		1/2	4,579.23	1/2	4,333.89	1/2	4,087.03	1/2	3,839.63	1/2	3,589.94	1/2	3,235.58
3/4		3/4		3/4		3/4		3/4	4,574.18	3/4	4,328.75	3/4	4,081.87	3/4	3,834.48	3/4	3,583.07	3/4	3,228.13
4		4		4		4		4	4,569.13	4	4,323.61	4	4,076.72	4	3,829.32	4	3,576.21	4	3,220.69
1/4		1/4		1/4		1/4		1/4	4,564.08	1/4	4,318.47	1/4	4,071.57	1/4	3,824.17	1/4	3,569.34	1/4	3,213.24
1/2		1/2		1/2		1/2		1/2	4,559.03	1/2	4,313.33	1/2	4,066.41	1/2	3,819.02	1/2	3,562.48	1/2	3,205.79
3/4		3/4		3/4		3/4		3/4	4,553.91	3/4	4,308.19	3/4	4,061.26	3/4	3,813.86	3/4	3,555.05	3/4	3,198.34
5		5		5		5		5	4,548.80	5	4,303.05	5	4,056.10	5	3,808.71	5	3,547.63	5	3,190.90
1/4		1/4		1/4		1/4		1/4	4,543.68	1/4	4,297.91	1/4	4,050.95	1/4	3,803.55	1/4	3,540.20	1/4	3,183.45
1/2		1/2		1/2		1/2		1/2	4,538.57	1/2	4,292.77	1/2	4,045.80	1/2	3,798.40	1/2	3,532.77	1/2	3,176.00
3/4		3/4		3/4		3/4		3/4	4,533.45	3/4	4,287.63	3/4	4,040.64	3/4	3,793.25	3/4	3,525.35	3/4	3,168.55
6		6		6		6		6	4,528.34	6	4,282.49	6	4,035.49	6	3,788.09	6	3,517.92	6	3,161.11
1/4		1/4		1/4		1/4		1/4	4,523.22	1/4	4,277.35	1/4	4,030.33	1/4	3,782.94	1/4	3,510.49	1/4	3,153.66
1/2		1/2		1/2		1/2		1/2	4,518.11	1/2	4,272.21	1/2	4,025.18	1/2	3,777.78	1/2	3,503.07	1/2	3,146.21
3/4		3/4		3/4		3/4		3/4	4,512.99	3/4	4,267.07	3/4	4,020.03	3/4	3,772.63	3/4	3,495.64	3/4	3,138.77
7		7		7		7		7	4,507.88	7	4,261.93	7	4,014.87	7	3,767.47	7	3,488.21	7	3,131.32
1/4		1/4		1/4		1/4		1/4	4,502.76	1/4	4,256.79	1/4	4,009.72	1/4	3,762.32	1/4	3,480.79	1/4	3,123.87
1/2		1/2		1/2		1/2		1/2	4,497.65	1/2	4,251.65	1/2	4,004.56	1/2	3,757.17	1/2	3,473.36	1/2	3,116.42
3/4		3/4		3/4		3/4		3/4	4,492.54	3/4	4,246.51	3/4	3,999.41	3/4	3,752.01	3/4	3,465.93	3/4	3,108.98
8		8		8		8		8	4,487.42	8	4,241.37	8	3,994.26	8	3,746.86	8	3,458.51	8	3,101.53
1/4		1/4		1/4		1/4		1/4	4,482.31	1/4	4,236.23	1/4	3,989.10	1/4	3,741.70	1/4	3,451.08	1/4	3,094.08
1/2		1/2		1/2		1/2		1/2	4,477.19	1/2	4,231.09	1/2	3,983.95	1/2	3,736.55	1/2	3,443.65	1/2	3,086.63
3/4		3/4		3/4		3/4		3/4	4,472.08	3/4	4,225.95	3/4	3,978.79	3/4	3,731.40	3/4	3,436.23	3/4	3,079.19
9		9		9		9		9	4,466.97	9	4,220.81	9	3,973.64	9	3,726.24	9	3,428.80	9	3,071.74
1/4		1/4		1/4		1/4		1/4	4,461.86	1/4	4,215.67	1/4	3,968.48	1/4	3,721.09	1/4	3,421.37	1/4	3,064.29
1/2		1/2		1/2		1/2		1/2	4,456.75	1/2	4,210.53	1/2	3,963.33	1/2	3,715.93	1/2	3,413.95	1/2	3,056.84
3/4		3/4		3/4		3/4		3/4	4,451.63	3/4	4,205.39	3/4	3,958.18	3/4	3,710.78	3/4	3,406.52	3/4	3,049.40
10		10		10		10		10	4,446.52	10	4,200.25	10	3,953.02	10	3,705.63	10	3,399.09	10	3,041.95
1/4		1/4		1/4		1/4		1/4	4,441.41	1/4	4,195.11	1/4	3,947.87	1/4	3,700.47	1/4	3,391.67	1/4	3,034.50
1/2		1/2		1/2		1/2		1/2	4,436.30	1/2	4,189.97	1/2	3,942.71	1/2	3,695.32	1/2	3,384.24	1/2	3,027.05
3/4		3/4		3/4		3/4		3/4	4,431.18	3/4	4,184.83	3/4	3,937.56	3/4	3,690.16	3/4	3,376.81	3/4	3,019.61
11		11		11		11		11	4,426.07	11	4,179.70	11	3,932.41	11	3,685.01	11	3,369.39	11	3,012.16
1/4		1/4		1/4		1/4		1/4	4,420.96	1/4	4,174.56	1/4	3,927.25	1/4	3,679.86	1/4	3,361.96	1/4	3,004.71
1/2		1/2		1/2		1/2		1/2	4,415.85	1/2	4,169.42	1/2	3,922.10	1/2	3,674.70	1/2	3,354.53	1/2	2,997.26
3/4		3/4		3/4		3/4		3/4	4,410.73	3/4	4,164.28	3/4	3,916.94	3/4	3,669.55	3/4	3,347.11	3/4	2,989.82

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 ULLAGE GAUGES TAKEN HERMETIC DEVICE
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 41'-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 "HTCO 3111"

3 STBD

ULLAGE TABLE

HERMETIC

GAUGE HEIGHT 17'-03 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,624.76	0	2,266.81	0	1,908.86	0	1,550.91	0	1,192.96	0	835.55	0	477.62	0	119.68	0		0	
1/4	2,617.30	1/4	2,259.35	1/4	1,901.40	1/4	1,543.45	1/4	1,185.50	1/4	828.10	1/4	470.16	1/4	112.22	1/4		1/4	
1/2	2,609.85	1/2	2,251.90	1/2	1,893.95	1/2	1,536.00	1/2	1,178.05	1/2	820.65	1/2	462.71	1/2	104.76	1/2		1/2	
3/4	2,602.39	3/4	2,244.44	3/4	1,886.49	3/4	1,528.54	3/4	1,170.59	3/4	813.19	3/4	455.25	3/4	97.31	3/4		3/4	
1	2,594.93	1	2,236.98	1	1,879.03	1	1,521.08	1	1,163.13	1	805.73	1	447.79	1	89.85	1		1	
1/4	2,587.47	1/4	2,229.52	1/4	1,871.57	1/4	1,513.62	1/4	1,155.67	1/4	798.28	1/4	440.33	1/4	82.39	1/4		1/4	
1/2	2,580.02	1/2	2,222.07	1/2	1,864.12	1/2	1,506.17	1/2	1,148.22	1/2	790.82	1/2	432.88	1/2	74.94	1/2		1/2	
3/4	2,572.56	3/4	2,214.61	3/4	1,856.66	3/4	1,498.71	3/4	1,140.76	3/4	783.36	3/4	425.42	3/4	67.95	3/4		3/4	
2	2,565.10	2	2,207.15	2	1,849.20	2	1,491.25	2	1,133.31	2	775.90	2	417.96	2	60.95	2		2	
1/4	2,557.65	1/4	2,199.70	1/4	1,841.74	1/4	1,483.79	1/4	1,125.86	1/4	768.45	1/4	410.51	1/4	53.96	1/4		1/4	
1/2	2,550.19	1/2	2,192.24	1/2	1,834.29	1/2	1,476.34	1/2	1,118.40	1/2	760.99	1/2	403.05	1/2	46.97	1/2		1/2	
3/4	2,542.73	3/4	2,184.78	3/4	1,826.83	3/4	1,468.88	3/4	1,110.95	3/4	753.53	3/4	395.59	3/4	41.38	3/4		3/4	
3	2,535.27	3	2,177.32	3	1,819.37	3	1,461.42	3	1,103.50	3	746.08	3	388.13	3	35.79	3		3	
1/4	2,527.82	1/4	2,169.87	1/4	1,811.92	1/4	1,453.97	1/4	1,096.05	1/4	738.62	1/4	380.68	1/4	30.19	1/4		1/4	
1/2	2,520.36	1/2	2,162.41	1/2	1,804.46	1/2	1,446.51	1/2	1,088.61	1/2	731.16	1/2	373.22	1/2	24.60	1/2		1/2	
3/4	2,512.90	3/4	2,154.95	3/4	1,797.00	3/4	1,439.05	3/4	1,081.16	3/4	723.70	3/4	365.76	3/4	20.87	3/4		3/4	
4	2,505.44	4	2,147.49	4	1,789.54	4	1,431.59	4	1,073.71	4	716.25	4	358.31	4		4		4	
1/4	2,497.99	1/4	2,140.04	1/4	1,782.09	1/4	1,424.14	1/4	1,066.27	1/4	708.79	1/4	350.85	1/4		1/4		1/4	
1/2	2,490.53	1/2	2,132.58	1/2	1,774.63	1/2	1,416.68	1/2	1,058.82	1/2	701.33	1/2	343.39	1/2		1/2		1/2	
3/4	2,483.07	3/4	2,125.12	3/4	1,767.17	3/4	1,409.22	3/4	1,051.38	3/4	693.88	3/4	335.94	3/4		3/4		3/4	
5	2,475.62	5	2,117.66	5	1,759.71	5	1,401.76	5	1,043.94	5	686.42	5	328.48	5		5		5	
1/4	2,468.16	1/4	2,110.21	1/4	1,752.26	1/4	1,394.31	1/4	1,036.50	1/4	678.96	1/4	321.02	1/4		1/4		1/4	
1/2	2,460.70	1/2	2,102.75	1/2	1,744.80	1/2	1,386.85	1/2	1,029.06	1/2	671.50	1/2	313.56	1/2		1/2		1/2	
3/4	2,453.24	3/4	2,095.29	3/4	1,737.34	3/4	1,379.39	3/4	1,021.61	3/4	664.05	3/4	306.11	3/4		3/4		3/4	
6	2,445.79	6	2,087.84	6	1,729.89	6	1,371.93	6	1,014.17	6	656.59	6	298.65	6		6		6	
1/4	2,438.33	1/4	2,080.38	1/4	1,722.43	1/4	1,364.48	1/4	1,006.73	1/4	649.13	1/4	291.19	1/4		1/4		1/4	
1/2	2,430.87	1/2	2,072.92	1/2	1,714.97	1/2	1,357.02	1/2	999.29	1/2	641.68	1/2	283.74	1/2		1/2		1/2	
3/4	2,423.41	3/4	2,065.46	3/4	1,707.51	3/4	1,349.56	3/4	991.84	3/4	634.22	3/4	276.28	3/4		3/4		3/4	
7	2,415.96	7	2,058.01	7	1,700.06	7	1,342.11	7	984.40	7	626.76	7	268.82	7		7		7	
1/4	2,408.50	1/4	2,050.55	1/4	1,692.60	1/4	1,334.65	1/4	976.96	1/4	619.30	1/4	261.36	1/4		1/4		1/4	
1/2	2,401.04	1/2	2,043.09	1/2	1,685.14	1/2	1,327.19	1/2	969.52	1/2	611.85	1/2	253.91	1/2		1/2		1/2	
3/4	2,393.58	3/4	2,035.63	3/4	1,677.68	3/4	1,319.73	3/4	962.08	3/4	604.39	3/4	246.45	3/4		3/4		3/4	
8	2,386.13	8	2,028.18	8	1,670.23	8	1,312.28	8	954.63	8	596.93	8	238.99	8		8		8	
1/4	2,378.67	1/4	2,020.72	1/4	1,662.77	1/4	1,304.82	1/4	947.19	1/4	589.48	1/4	231.54	1/4		1/4		1/4	
1/2	2,371.21	1/2	2,013.26	1/2	1,655.31	1/2	1,297.36	1/2	939.75	1/2	582.02	1/2	224.08	1/2		1/2		1/2	
3/4	2,363.76	3/4	2,005.81	3/4	1,647.85	3/4	1,289.90	3/4	932.31	3/4	574.56	3/4	216.62	3/4		3/4		3/4	
9	2,356.30	9	1,998.35	9	1,640.40	9	1,282.45	9	924.87	9	567.11	9	209.16	9		9		9	
1/4	2,348.84	1/4	1,990.89	1/4	1,632.94	1/4	1,274.99	1/4	917.42	1/4	559.65	1/4	201.71	1/4		1/4		1/4	
1/2	2,341.38	1/2	1,983.43	1/2	1,625.48	1/2	1,267.53	1/2	909.98	1/2	552.19	1/2	194.25	1/2		1/2		1/2	
3/4	2,333.93	3/4	1,975.98	3/4	1,618.03	3/4	1,260.08	3/4	902.54	3/4	544.73	3/4	186.79	3/4		3/4		3/4	
10	2,326.47	10	1,968.52	10	1,610.57	10	1,252.62	10	895.10	10	537.28	10	179.34	10		10		10	
1/4	2,319.01	1/4	1,961.06	1/4	1,603.11	1/4	1,245.16	1/4	887.66	1/4	529.82	1/4	171.88	1/4		1/4		1/4	
1/2	2,311.55	1/2	1,953.60	1/2	1,595.65	1/2	1,237.70	1/2	880.21	1/2	522.36	1/2	164.42	1/2		1/2		1/2	
3/4	2,304.10	3/4	1,946.15	3/4	1,588.20	3/4	1,230.25	3/4	872.77	3/4	514.91	3/4	156.96	3/4		3/4		3/4	
11	2,296.64	11	1,938.69	11	1,580.74	11	1,222.79	11	865.33	11	507.45	11	149.51	11		11		11	
1/4	2,289.18	1/4	1,931.23	1/4	1,573.28	1/4	1,215.33	1/4	857.89	1/4	499.99	1/4	142.05	1/4		1/4		1/4	
1/2	2,281.73	1/2	1,923.78	1/2	1,565.82	1/2	1,207.87	1/2	850.44	1/2	492.53	1/2	134.59	1/2		1/2		1/2	
3/4	2,274.27	3/4	1,916.32	3/4	1,558.37	3/4	1,200.42	3/4	843.00	3/4	485.08	3/4	127.14	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/19/2013 CL
RECALCULATED: 01/05/2019 CL
VERIFIED: 12/28/2023 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2023

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

