



BARGE "HTCO 3103"

ULLAGE TRIM TABLE (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	- 00-1/4	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 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
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"

October 25, 2023

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

<http://www.pmacorp.net>





BARGE "HTCO 3103"

1 PORT 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	4,704.14	0	4,347.27	0	3,989.12	0	3,630.89	0	3,272.65	0	2,914.41
1/4		1/4		1/4		1/4		1/4	4,696.74	1/4	4,339.83	1/4	3,981.66	1/4	3,623.42	1/4	3,265.18	1/4	2,906.94
1/2		1/2		1/2		1/2		1/2	4,689.34	1/2	4,332.39	1/2	3,974.20	1/2	3,615.96	1/2	3,257.72	1/2	2,899.47
3/4		3/4		3/4		3/4		3/4	4,681.94	3/4	4,324.94	3/4	3,966.73	3/4	3,608.50	3/4	3,250.26	3/4	2,892.01
1		1		1		1		1	4,674.54	1	4,317.48	1	3,959.27	1	3,601.03	1	3,242.79	1	2,884.54
1/4		1/4		1/4		1/4		1/4	5,010.80	1/4	4,667.14	1/4	4,310.03	1/4	3,951.81	1/4	3,593.57	1/4	3,235.33
1/2		1/2		1/2		1/2		1/2	5,006.06	1/2	4,659.73	1/2	4,302.58	1/2	3,944.34	1/2	3,586.11	1/2	3,227.87
3/4		3/4		3/4		3/4		3/4	5,000.26	3/4	4,652.31	3/4	4,295.12	3/4	3,936.88	3/4	3,578.64	3/4	3,220.40
2		2		2		2		2	4,994.45	2	4,644.89	2	4,287.66	2	3,929.42	2	3,571.18	2	3,212.94
1/4		1/4		1/4		1/4		1/4	4,988.64	1/4	4,637.47	1/4	4,280.19	1/4	3,921.95	1/4	3,563.72	1/4	3,205.48
1/2		1/2		1/2		1/2		1/2	4,982.84	1/2	4,630.05	1/2	4,272.73	1/2	3,914.49	1/2	3,556.25	1/2	3,198.01
3/4		3/4		3/4		3/4		3/4	4,976.03	3/4	4,622.61	3/4	4,265.27	3/4	3,907.03	3/4	3,548.79	3/4	3,190.55
3		3		3		3		3	4,969.23	3	4,615.16	3	4,257.80	3	3,899.56	3	3,541.33	3	3,183.09
1/4		1/4		1/4		1/4		1/4	4,962.42	1/4	4,607.72	1/4	4,250.34	1/4	3,892.10	1/4	3,533.86	1/4	3,175.62
1/2		1/2		1/2		1/2		1/2	4,955.61	1/2	4,600.28	1/2	4,242.88	1/2	3,884.64	1/2	3,526.40	1/2	3,168.16
3/4		3/4		3/4		3/4		3/4	4,948.27	3/4	4,592.84	3/4	4,235.41	3/4	3,877.17	3/4	3,518.94	3/4	3,160.70
4		4		4		4		4	4,940.93	4	4,585.40	4	4,227.95	4	3,869.71	4	3,511.47	4	3,153.23
1/4		1/4		1/4		1/4		1/4	4,933.59	1/4	4,577.96	1/4	4,220.49	1/4	3,862.25	1/4	3,504.01	1/4	3,145.77
1/2		1/2		1/2		1/2		1/2	4,926.25	1/2	4,570.51	1/2	4,213.02	1/2	3,854.78	1/2	3,496.55	1/2	3,138.31
3/4		3/4		3/4		3/4		3/4	4,918.85	3/4	4,563.07	3/4	4,205.56	3/4	3,847.32	3/4	3,489.08	3/4	3,130.84
5		5		5		5		5	4,911.44	5	4,555.63	5	4,198.10	5	3,839.86	5	3,481.62	5	3,123.38
1/4		1/4		1/4		1/4		1/4	4,904.03	1/4	4,548.19	1/4	4,190.63	1/4	3,832.39	1/4	3,474.16	1/4	3,115.92
1/2		1/2		1/2		1/2		1/2	4,896.63	1/2	4,540.75	1/2	4,183.17	1/2	3,824.93	1/2	3,466.69	1/2	3,108.45
3/4		3/4		3/4		3/4		3/4	4,889.22	3/4	4,533.31	3/4	4,175.71	3/4	3,817.47	3/4	3,459.23	3/4	3,100.99
6		6		6		6		6	4,881.82	6	4,525.87	6	4,168.24	6	3,810.00	6	3,451.77	6	3,093.53
1/4		1/4		1/4		1/4		1/4	4,874.41	1/4	4,518.42	1/4	4,160.78	1/4	3,802.54	1/4	3,444.30	1/4	3,086.06
1/2		1/2		1/2		1/2		1/2	4,867.01	1/2	4,510.98	1/2	4,153.32	1/2	3,795.08	1/2	3,436.84	1/2	3,078.60
3/4		3/4		3/4		3/4		3/4	4,859.60	3/4	4,503.54	3/4	4,145.85	3/4	3,787.62	3/4	3,429.38	3/4	3,071.14
7		7		7		7		7	4,852.19	7	4,496.10	7	4,138.39	7	3,780.15	7	3,421.91	7	3,063.68
1/4		1/4		1/4		1/4		1/4	4,844.79	1/4	4,488.66	1/4	4,130.93	1/4	3,772.69	1/4	3,414.45	1/4	3,056.21
1/2		1/2		1/2		1/2		1/2	4,837.38	1/2	4,481.22	1/2	4,123.46	1/2	3,765.23	1/2	3,406.99	1/2	3,048.75
3/4		3/4		3/4		3/4		3/4	4,829.98	3/4	4,473.78	3/4	4,116.00	3/4	3,757.76	3/4	3,399.52	3/4	3,041.29
8		8		8		8		8	4,822.58	8	4,466.33	8	4,108.54	8	3,750.30	8	3,392.06	8	3,033.82
1/4		1/4		1/4		1/4		1/4	4,815.17	1/4	4,458.89	1/4	4,101.07	1/4	3,742.84	1/4	3,384.60	1/4	3,026.36
1/2		1/2		1/2		1/2		1/2	4,807.77	1/2	4,451.45	1/2	4,093.61	1/2	3,735.37	1/2	3,377.13	1/2	3,018.90
3/4		3/4		3/4		3/4		3/4	4,800.37	3/4	4,444.01	3/4	4,086.15	3/4	3,727.91	3/4	3,369.67	3/4	3,011.43
9		9		9		9		9	4,792.96	9	4,436.57	9	4,078.68	9	3,720.45	9	3,362.21	9	3,003.97
1/4		1/4		1/4		1/4		1/4	4,785.56	1/4	4,429.13	1/4	4,071.22	1/4	3,712.98	1/4	3,354.74	1/4	2,996.51
1/2		1/2		1/2		1/2		1/2	4,778.16	1/2	4,421.68	1/2	4,063.76	1/2	3,705.52	1/2	3,347.28	1/2	2,989.04
3/4		3/4		3/4		3/4		3/4	4,770.76	3/4	4,414.24	3/4	4,056.29	3/4	3,698.06	3/4	3,339.82	3/4	2,981.58
10		10		10		10		10	4,763.36	10	4,406.80	10	4,048.83	10	3,690.59	10	3,332.35	10	2,974.12
1/4		1/4		1/4		1/4		1/4	4,755.96	1/4	4,399.36	1/4	4,041.37	1/4	3,683.13	1/4	3,324.89	1/4	2,966.65
1/2		1/2		1/2		1/2		1/2	4,748.55	1/2	4,391.92	1/2	4,033.90	1/2	3,675.67	1/2	3,317.43	1/2	2,959.19
3/4		3/4		3/4		3/4		3/4	4,741.15	3/4	4,384.48	3/4	4,026.44	3/4	3,668.20	3/4	3,309.96	3/4	2,951.73
11		11		11		11		11	4,733.75	11	4,377.04	11	4,018.98	11	3,660.74	11	3,302.50	11	2,944.26
1/4		1/4		1/4		1/4		1/4	4,726.35	1/4	4,369.59	1/4	4,011.51	1/4	3,653.28	1/4	3,295.04	1/4	2,936.80
1/2		1/2		1/2		1/2		1/2	4,718.95	1/2	4,362.15	1/2	4,004.05	1/2	3,645.81	1/2	3,287.57	1/2	2,929.34
3/4		3/4		3/4		3/4		3/4	4,711.55	3/4	4,354.71	3/4	3,996.59	3/4	3,638.35	3/4	3,280.11	3/4	2,921.87

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 WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-07" OFF CENTERLINE AND 41'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
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BARGE "HTCO 3103"

1 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,555.98	0	2,197.55	0	1,839.12	0	1,480.69	0	1,122.29	0	766.00	0	411.82	0	95.65	0		0	
1/4	2,548.51	1/4	2,190.08	1/4	1,831.65	1/4	1,473.22	1/4	1,114.83	1/4	758.55	1/4	404.76	1/4	89.54	1/4		1/4	
1/2	2,541.04	1/2	2,182.61	1/2	1,824.18	1/2	1,465.75	1/2	1,107.38	1/2	751.11	1/2	397.70	1/2	83.43	1/2		1/2	
3/4	2,533.58	3/4	2,175.15	3/4	1,816.72	3/4	1,458.29	3/4	1,099.94	3/4	743.65	3/4	390.72	3/4	77.39	3/4		3/4	
1	2,526.11	1	2,167.68	1	1,809.25	1	1,450.82	1	1,092.51	1	736.18	1	383.75	1	71.36	1		1	
1/4	2,518.64	1/4	2,160.21	1/4	1,801.78	1/4	1,443.35	1/4	1,085.07	1/4	728.71	1/4	376.77	1/4	65.33	1/4		1/4	
1/2	2,511.18	1/2	2,152.74	1/2	1,794.31	1/2	1,435.88	1/2	1,077.63	1/2	721.24	1/2	369.79	1/2	59.30	1/2		1/2	
3/4	2,503.71	3/4	2,145.28	3/4	1,786.85	3/4	1,428.42	3/4	1,070.20	3/4	713.78	3/4	362.89	3/4	53.81	3/4		3/4	
2	2,496.24	2	2,137.81	2	1,779.38	2	1,420.95	2	1,062.77	2	706.31	2	355.99	2	48.33	2		2	
1/4	2,488.77	1/4	2,130.34	1/4	1,771.91	1/4	1,413.48	1/4	1,055.34	1/4	698.84	1/4	349.09	1/4	42.84	1/4		1/4	
1/2	2,481.31	1/2	2,122.88	1/2	1,764.45	1/2	1,406.01	1/2	1,047.91	1/2	691.38	1/2	342.18	1/2	37.36	1/2		1/2	
3/4	2,473.84	3/4	2,115.41	3/4	1,756.98	3/4	1,398.55	3/4	1,040.49	3/4	683.91	3/4	335.36	3/4	33.36	3/4		3/4	
3	2,466.37	3	2,107.94	3	1,749.51	3	1,391.08	3	1,033.06	3	676.44	3	328.53	3	29.36	3		3	
1/4	2,458.90	1/4	2,100.47	1/4	1,742.04	1/4	1,383.61	1/4	1,025.64	1/4	668.97	1/4	321.70	1/4	25.35	1/4		1/4	
1/2	2,451.44	1/2	2,093.01	1/2	1,734.58	1/2	1,376.15	1/2	1,018.21	1/2	661.51	1/2	314.87	1/2	21.35	1/2		1/2	
3/4	2,443.97	3/4	2,085.54	3/4	1,727.11	3/4	1,368.68	3/4	1,010.79	3/4	654.04	3/4	308.12	3/4	18.44	3/4		3/4	
4	2,436.50	4	2,078.07	4	1,719.64	4	1,361.21	4	1,003.37	4	646.57	4	301.37	4		4		4	
1/4	2,429.03	1/4	2,070.60	1/4	1,712.17	1/4	1,353.74	1/4	995.95	1/4	639.11	1/4	294.62	1/4		1/4		1/4	
1/2	2,421.57	1/2	2,063.14	1/2	1,704.71	1/2	1,346.28	1/2	988.53	1/2	631.64	1/2	287.88	1/2		1/2		1/2	
3/4	2,414.10	3/4	2,055.67	3/4	1,697.24	3/4	1,338.81	3/4	981.12	3/4	624.17	3/4	281.21	3/4		3/4		3/4	
5	2,406.63	5	2,048.20	5	1,689.77	5	1,331.34	5	973.70	5	616.70	5	274.54	5		5		5	
1/4	2,399.17	1/4	2,040.74	1/4	1,682.30	1/4	1,323.87	1/4	966.29	1/4	609.24	1/4	267.87	1/4		1/4		1/4	
1/2	2,391.70	1/2	2,033.27	1/2	1,674.84	1/2	1,316.41	1/2	958.87	1/2	601.77	1/2	261.21	1/2		1/2		1/2	
3/4	2,384.23	3/4	2,025.80	3/4	1,667.37	3/4	1,308.94	3/4	951.45	3/4	594.30	3/4	254.62	3/4		3/4		3/4	
6	2,376.76	6	2,018.33	6	1,659.90	6	1,301.47	6	944.04	6	586.84	6	248.03	6		6		6	
1/4	2,369.30	1/4	2,010.87	1/4	1,652.44	1/4	1,294.01	1/4	936.62	1/4	579.37	1/4	241.45	1/4		1/4		1/4	
1/2	2,361.83	1/2	2,003.40	1/2	1,644.97	1/2	1,286.54	1/2	929.20	1/2	571.90	1/2	234.86	1/2		1/2		1/2	
3/4	2,354.36	3/4	1,995.93	3/4	1,637.50	3/4	1,279.07	3/4	921.79	3/4	564.46	3/4	228.36	3/4		3/4		3/4	
7	2,346.89	7	1,988.46	7	1,630.03	7	1,271.60	7	914.37	7	557.01	7	221.85	7		7		7	
1/4	2,339.43	1/4	1,981.00	1/4	1,622.57	1/4	1,264.14	1/4	906.96	1/4	549.57	1/4	215.35	1/4		1/4		1/4	
1/2	2,331.96	1/2	1,973.53	1/2	1,615.10	1/2	1,256.67	1/2	899.54	1/2	542.12	1/2	208.84	1/2		1/2		1/2	
3/4	2,324.49	3/4	1,966.06	3/4	1,607.63	3/4	1,249.20	3/4	892.12	3/4	534.74	3/4	202.42	3/4		3/4		3/4	
8	2,317.03	8	1,958.60	8	1,600.16	8	1,241.73	8	884.71	8	527.36	8	196.00	8		8		8	
1/4	2,309.56	1/4	1,951.13	1/4	1,592.70	1/4	1,234.27	1/4	877.29	1/4	519.97	1/4	189.57	1/4		1/4		1/4	
1/2	2,302.09	1/2	1,943.66	1/2	1,585.23	1/2	1,226.80	1/2	869.87	1/2	512.59	1/2	183.15	1/2		1/2		1/2	
3/4	2,294.62	3/4	1,936.19	3/4	1,577.76	3/4	1,219.33	3/4	862.46	3/4	505.29	3/4	176.80	3/4		3/4		3/4	
9	2,287.16	9	1,928.73	9	1,570.30	9	1,211.87	9	855.04	9	497.99	9	170.45	9		9		9	
1/4	2,279.69	1/4	1,921.26	1/4	1,562.83	1/4	1,204.40	1/4	847.63	1/4	490.69	1/4	164.11	1/4		1/4		1/4	
1/2	2,272.22	1/2	1,913.79	1/2	1,555.36	1/2	1,196.93	1/2	840.21	1/2	483.38	1/2	157.76	1/2		1/2		1/2	
3/4	2,264.75	3/4	1,906.32	3/4	1,547.89	3/4	1,189.46	3/4	832.79	3/4	476.16	3/4	151.48	3/4		3/4		3/4	
10	2,257.29	10	1,898.86	10	1,540.43	10	1,182.00	10	825.38	10	468.94	10	145.21	10		10		10	
1/4	2,249.82	1/4	1,891.39	1/4	1,532.96	1/4	1,174.53	1/4	817.96	1/4	461.72	1/4	138.93	1/4		1/4		1/4	
1/2	2,242.35	1/2	1,883.92	1/2	1,525.49	1/2	1,167.06	1/2	810.54	1/2	454.50	1/2	132.66	1/2		1/2		1/2	
3/4	2,234.89	3/4	1,876.45	3/4	1,518.02	3/4	1,159.59	3/4	803.13	3/4	447.36	3/4	126.46	3/4		3/4		3/4	
11	2,227.42	11	1,868.99	11	1,510.56	11	1,152.13	11	795.71	11	440.22	11	120.27	11		11		11	
1/4	2,219.95	1/4	1,861.52	1/4	1,503.09	1/4	1,144.66	1/4	788.29	1/4	433.08	1/4	114.08	1/4		1/4		1/4	
1/2	2,212.48	1/2	1,854.05	1/2	1,495.62	1/2	1,137.19	1/2	780.88	1/2	425.94	1/2	107.88	1/2		1/2		1/2	
3/4	2,205.02	3/4	1,846.59	3/4	1,488.16	3/4	1,129.74	3/4	773.44	3/4	418.88	3/4	101.77	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/26/2013 SW
RECALCULATED: 10/04/2018 SW
VERIFIED: 10/25/2023 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2023

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



BARGE "HTCO 3103"

1 STBD ULLAGE TABLE

HERMETIC

GAUGE HEIGHT 17'-04 1/2"

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	4,728.03	0	4,371.28	0	4,013.19	0	3,654.96	0	3,296.73	0	2,938.50
1/4		1/4		1/4		1/4		1/4	4,720.62	1/4	4,363.83	1/4	4,005.73	1/4	3,647.50	1/4	3,289.27	1/4	2,931.04
1/2		1/2		1/2		1/2		1/2	4,713.22	1/2	4,356.39	1/2	3,998.26	1/2	3,640.03	1/2	3,281.81	1/2	2,923.58
3/4		3/4		3/4		3/4		3/4	4,705.82	3/4	4,348.95	3/4	3,990.80	3/4	3,632.57	3/4	3,274.34	3/4	2,916.11
1		1		1		1		1	4,698.42	1	4,341.51	1	3,983.34	1	3,625.11	1	3,266.88	1	2,908.65
1/4		1/4		1/4		1/4		1/4	4,691.02	1/4	4,334.07	1/4	3,975.87	1/4	3,617.64	1/4	3,259.42	1/4	2,901.19
1/2		1/2		1/2		1/2		1/2	4,683.62	1/2	4,326.61	1/2	3,968.41	1/2	3,610.18	1/2	3,251.95	1/2	2,893.72
3/4		3/4		3/4		3/4		3/4	4,676.21	3/4	4,319.16	3/4	3,960.95	3/4	3,602.72	3/4	3,244.49	3/4	2,886.25
2		2		2		2	5,012.46	2	4,668.81	2	4,311.70	2	3,953.48	2	3,595.26	2	3,237.03	2	2,878.78
1/4		1/4		1/4		1/4	5,007.72	1/4	4,661.41	1/4	4,304.25	1/4	3,946.02	1/4	3,587.79	1/4	3,229.56	1/4	2,871.32
1/2		1/2		1/2		1/2	5,001.92	1/2	4,653.99	1/2	4,296.79	1/2	3,938.56	1/2	3,580.33	1/2	3,222.10	1/2	2,863.85
3/4		3/4		3/4		3/4	4,996.11	3/4	4,646.57	3/4	4,289.32	3/4	3,931.10	3/4	3,572.87	3/4	3,214.64	3/4	2,856.38
3		3		3		3	4,990.30	3	4,639.15	3	4,281.86	3	3,923.63	3	3,565.40	3	3,207.17	3	2,848.91
1/4		1/4		1/4		1/4	4,984.50	1/4	4,631.72	1/4	4,274.40	1/4	3,916.17	1/4	3,557.94	1/4	3,199.71	1/4	2,841.45
1/2		1/2		1/2		1/2	4,977.69	1/2	4,624.28	1/2	4,266.93	1/2	3,908.71	1/2	3,550.48	1/2	3,192.25	1/2	2,833.98
3/4		3/4		3/4		3/4	4,970.89	3/4	4,616.84	3/4	4,259.47	3/4	3,901.24	3/4	3,543.01	3/4	3,184.79	3/4	2,826.51
4		4		4		4	4,964.08	4	4,609.40	4	4,252.01	4	3,893.78	4	3,535.55	4	3,177.32	4	2,819.05
1/4		1/4		1/4		1/4	4,957.28	1/4	4,601.96	1/4	4,244.55	1/4	3,886.32	1/4	3,528.09	1/4	3,169.86	1/4	2,811.58
1/2		1/2		1/2		1/2	4,949.94	1/2	4,594.52	1/2	4,237.08	1/2	3,878.85	1/2	3,520.62	1/2	3,162.40	1/2	2,804.11
3/4		3/4		3/4		3/4	4,942.60	3/4	4,587.08	3/4	4,229.62	3/4	3,871.39	3/4	3,513.16	3/4	3,154.93	3/4	2,796.64
5		5		5		5	4,935.27	5	4,579.63	5	4,222.16	5	3,863.93	5	3,505.70	5	3,147.47	5	2,789.18
1/4		1/4		1/4		1/4	4,927.93	1/4	4,572.19	1/4	4,214.69	1/4	3,856.46	1/4	3,498.24	1/4	3,140.01	1/4	2,781.71
1/2		1/2		1/2		1/2	4,920.52	1/2	4,564.75	1/2	4,207.23	1/2	3,849.00	1/2	3,490.77	1/2	3,132.54	1/2	2,774.24
3/4		3/4		3/4		3/4	4,913.12	3/4	4,557.31	3/4	4,199.77	3/4	3,841.54	3/4	3,483.31	3/4	3,125.08	3/4	2,766.78
6		6		6		6	4,905.71	6	4,549.87	6	4,192.30	6	3,834.07	6	3,475.85	6	3,117.62	6	2,759.31
1/4		1/4		1/4		1/4	4,898.30	1/4	4,542.43	1/4	4,184.84	1/4	3,826.61	1/4	3,468.38	1/4	3,110.15	1/4	2,751.84
1/2		1/2		1/2		1/2	4,890.90	1/2	4,534.99	1/2	4,177.38	1/2	3,819.15	1/2	3,460.92	1/2	3,102.69	1/2	2,744.37
3/4		3/4		3/4		3/4	4,883.49	3/4	4,527.54	3/4	4,169.91	3/4	3,811.69	3/4	3,453.46	3/4	3,095.23	3/4	2,736.91
7		7		7		7	4,876.09	7	4,520.10	7	4,162.45	7	3,804.22	7	3,445.99	7	3,087.76	7	2,729.44
1/4		1/4		1/4		1/4	4,868.68	1/4	4,512.66	1/4	4,154.99	1/4	3,796.76	1/4	3,438.53	1/4	3,080.30	1/4	2,721.97
1/2		1/2		1/2		1/2	4,861.28	1/2	4,505.22	1/2	4,147.53	1/2	3,789.30	1/2	3,431.07	1/2	3,072.84	1/2	2,714.51
3/4		3/4		3/4		3/4	4,853.87	3/4	4,497.78	3/4	4,140.06	3/4	3,781.83	3/4	3,423.60	3/4	3,065.38	3/4	2,707.04
8		8		8		8	4,846.46	8	4,490.34	8	4,132.60	8	3,774.37	8	3,416.14	8	3,057.91	8	2,699.57
1/4		1/4		1/4		1/4	4,839.06	1/4	4,482.90	1/4	4,125.14	1/4	3,766.91	1/4	3,408.68	1/4	3,050.45	1/4	2,692.10
1/2		1/2		1/2		1/2	4,831.66	1/2	4,475.46	1/2	4,117.67	1/2	3,759.44	1/2	3,401.22	1/2	3,042.99	1/2	2,684.64
3/4		3/4		3/4		3/4	4,824.25	3/4	4,468.01	3/4	4,110.21	3/4	3,751.98	3/4	3,393.75	3/4	3,035.52	3/4	2,677.17
9		9		9		9	4,816.85	9	4,460.57	9	4,102.75	9	3,744.52	9	3,386.29	9	3,028.06	9	2,669.70
1/4		1/4		1/4		1/4	4,809.45	1/4	4,453.13	1/4	4,095.28	1/4	3,737.05	1/4	3,378.83	1/4	3,020.60	1/4	2,662.23
1/2		1/2		1/2		1/2	4,802.04	1/2	4,445.69	1/2	4,087.82	1/2	3,729.59	1/2	3,371.36	1/2	3,013.13	1/2	2,654.77
3/4		3/4		3/4		3/4	4,794.64	3/4	4,438.25	3/4	4,080.36	3/4	3,722.13	3/4	3,363.90	3/4	3,005.67	3/4	2,647.30
10		10		10		10	4,787.24	10	4,430.81	10	4,072.89	10	3,714.67	10	3,356.44	10	2,998.21	10	2,639.83
1/4		1/4		1/4		1/4	4,779.84	1/4	4,423.37	1/4	4,065.43	1/4	3,707.20	1/4	3,348.97	1/4	2,990.74	1/4	2,632.37
1/2		1/2		1/2		1/2	4,772.44	1/2	4,415.92	1/2	4,057.97	1/2	3,699.74	1/2	3,341.51	1/2	2,983.28	1/2	2,624.90
3/4		3/4		3/4		3/4	4,765.04	3/4	4,408.48	3/4	4,050.50	3/4	3,692.28	3/4	3,334.05	3/4	2,975.82	3/4	2,617.43
11		11		11		11	4,757.63	11	4,401.04	11	4,043.04	11	3,684.81	11	3,326.58	11	2,968.36	11	2,609.96
1/4		1/4		1/4		1/4	4,750.23	1/4	4,393.60	1/4	4,035.58	1/4	3,677.35	1/4	3,319.12	1/4	2,960.89	1/4	2,602.50
1/2		1/2		1/2		1/2	4,742.83	1/2	4,386.16	1/2	4,028.12	1/2	3,669.89	1/2	3,311.66	1/2	2,953.43	1/2	2,595.03
3/4		3/4		3/4		3/4	4,735.43	3/4	4,378.72	3/4	4,020.65	3/4	3,662.42	3/4	3,304.19	3/4	2,945.97	3/4	2,587.56

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 WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-07" 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 3103"

1 STBD ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-04 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,580.10	0	2,221.67	0	1,863.24	0	1,504.82	0	1,146.39	0	788.42	0	433.15	0	114.11	0		0	
1/4	2,572.63	1/4	2,214.20	1/4	1,855.78	1/4	1,497.35	1/4	1,138.93	1/4	780.97	1/4	426.01	1/4	107.91	1/4		1/4	
1/2	2,565.16	1/2	2,206.74	1/2	1,848.31	1/2	1,489.88	1/2	1,131.46	1/2	773.51	1/2	418.95	1/2	101.80	1/2		1/2	
3/4	2,557.69	3/4	2,199.27	3/4	1,840.84	3/4	1,482.42	3/4	1,123.99	3/4	766.05	3/4	411.90	3/4	95.68	3/4		3/4	
1	2,550.23	1	2,191.80	1	1,833.38	1	1,474.95	1	1,116.52	1	758.59	1	404.84	1	89.57	1		1	
1/4	2,542.76	1/4	2,184.33	1/4	1,825.91	1/4	1,467.48	1/4	1,109.06	1/4	751.13	1/4	397.78	1/4	83.45	1/4		1/4	
1/2	2,535.29	1/2	2,176.87	1/2	1,818.44	1/2	1,460.02	1/2	1,101.59	1/2	743.66	1/2	390.80	1/2	77.42	1/2		1/2	
3/4	2,527.83	3/4	2,169.40	3/4	1,810.97	3/4	1,452.55	3/4	1,094.12	3/4	736.20	3/4	383.82	3/4	71.39	3/4		3/4	
2	2,520.36	2	2,161.93	2	1,803.51	2	1,445.08	2	1,086.66	2	728.73	2	376.85	2	65.35	2		2	
1/4	2,512.89	1/4	2,154.47	1/4	1,796.04	1/4	1,437.61	1/4	1,079.19	1/4	721.26	1/4	369.87	1/4	59.32	1/4		1/4	
1/2	2,505.42	1/2	2,147.00	1/2	1,788.57	1/2	1,430.15	1/2	1,071.72	1/2	713.80	1/2	362.97	1/2	53.83	1/2		1/2	
3/4	2,497.96	3/4	2,139.53	3/4	1,781.11	3/4	1,422.68	3/4	1,064.26	3/4	706.33	3/4	356.06	3/4	48.35	3/4		3/4	
3	2,490.49	3	2,132.06	3	1,773.64	3	1,415.21	3	1,056.80	3	698.86	3	349.16	3	42.86	3		3	
1/4	2,483.02	1/4	2,124.60	1/4	1,766.17	1/4	1,407.75	1/4	1,049.33	1/4	691.39	1/4	342.26	1/4	37.38	1/4		1/4	
1/2	2,475.55	1/2	2,117.13	1/2	1,758.70	1/2	1,400.28	1/2	1,041.87	1/2	683.93	1/2	335.43	1/2	33.37	1/2		1/2	
3/4	2,468.09	3/4	2,109.66	3/4	1,751.24	3/4	1,392.81	3/4	1,034.41	3/4	676.46	3/4	328.60	3/4	29.37	3/4		3/4	
4	2,460.62	4	2,102.19	4	1,743.77	4	1,385.34	4	1,026.95	4	668.99	4	321.77	4	25.36	4		4	
1/4	2,453.15	1/4	2,094.73	1/4	1,736.30	1/4	1,377.88	1/4	1,019.49	1/4	661.53	1/4	314.94	1/4	21.36	1/4		1/4	
1/2	2,445.69	1/2	2,087.26	1/2	1,728.83	1/2	1,370.41	1/2	1,012.03	1/2	654.06	1/2	308.19	1/2	18.44	1/2		1/2	
3/4	2,438.22	3/4	2,079.79	3/4	1,721.37	3/4	1,362.94	3/4	1,004.58	3/4	646.59	3/4	301.44	3/4		3/4		3/4	
5	2,430.75	5	2,072.33	5	1,713.90	5	1,355.47	5	997.12	5	639.13	5	294.69	5		5		5	
1/4	2,423.28	1/4	2,064.86	1/4	1,706.43	1/4	1,348.01	1/4	989.66	1/4	631.66	1/4	287.94	1/4		1/4		1/4	
1/2	2,415.82	1/2	2,057.39	1/2	1,698.97	1/2	1,340.54	1/2	982.21	1/2	624.19	1/2	281.27	1/2		1/2		1/2	
3/4	2,408.35	3/4	2,049.92	3/4	1,691.50	3/4	1,333.07	3/4	974.76	3/4	616.72	3/4	274.61	3/4		3/4		3/4	
6	2,400.88	6	2,042.46	6	1,684.03	6	1,325.61	6	967.30	6	609.26	6	267.94	6		6		6	
1/4	2,393.42	1/4	2,034.99	1/4	1,676.56	1/4	1,318.14	1/4	959.85	1/4	601.79	1/4	261.27	1/4		1/4		1/4	
1/2	2,385.95	1/2	2,027.52	1/2	1,669.10	1/2	1,310.67	1/2	952.40	1/2	594.32	1/2	254.68	1/2		1/2		1/2	
3/4	2,378.48	3/4	2,020.06	3/4	1,661.63	3/4	1,303.20	3/4	944.94	3/4	586.86	3/4	248.09	3/4		3/4		3/4	
7	2,371.01	7	2,012.59	7	1,654.16	7	1,295.74	7	937.49	7	579.39	7	241.51	7		7		7	
1/4	2,363.55	1/4	2,005.12	1/4	1,646.70	1/4	1,288.27	1/4	930.04	1/4	571.92	1/4	234.92	1/4		1/4		1/4	
1/2	2,356.08	1/2	1,997.65	1/2	1,639.23	1/2	1,280.80	1/2	922.58	1/2	564.48	1/2	228.41	1/2		1/2		1/2	
3/4	2,348.61	3/4	1,990.19	3/4	1,631.76	3/4	1,273.34	3/4	915.13	3/4	557.04	3/4	221.91	3/4		3/4		3/4	
8	2,341.15	8	1,982.72	8	1,624.29	8	1,265.87	8	907.68	8	549.60	8	215.40	8		8		8	
1/4	2,333.68	1/4	1,975.25	1/4	1,616.83	1/4	1,258.40	1/4	900.22	1/4	542.16	1/4	208.90	1/4		1/4		1/4	
1/2	2,326.21	1/2	1,967.79	1/2	1,609.36	1/2	1,250.93	1/2	892.77	1/2	534.78	1/2	202.47	1/2		1/2		1/2	
3/4	2,318.74	3/4	1,960.32	3/4	1,601.89	3/4	1,243.47	3/4	885.32	3/4	527.41	3/4	196.05	3/4		3/4		3/4	
9	2,311.28	9	1,952.85	9	1,594.43	9	1,236.00	9	877.86	9	520.03	9	189.62	9		9		9	
1/4	2,303.81	1/4	1,945.38	1/4	1,586.96	1/4	1,228.53	1/4	870.41	1/4	512.66	1/4	183.20	1/4		1/4		1/4	
1/2	2,296.34	1/2	1,937.92	1/2	1,579.49	1/2	1,221.07	1/2	862.96	1/2	505.36	1/2	176.85	1/2		1/2		1/2	
3/4	2,288.87	3/4	1,930.45	3/4	1,572.02	3/4	1,213.60	3/4	855.50	3/4	498.06	3/4	170.50	3/4		3/4		3/4	
10	2,281.41	10	1,922.98	10	1,564.56	10	1,206.13	10	848.05	10	490.76	10	164.15	10		10		10	
1/4	2,273.94	1/4	1,915.51	1/4	1,557.09	1/4	1,198.66	1/4	840.60	1/4	483.46	1/4	157.80	1/4		1/4		1/4	
1/2	2,266.47	1/2	1,908.05	1/2	1,549.62	1/2	1,191.20	1/2	833.14	1/2	476.24	1/2	151.53	1/2		1/2		1/2	
3/4	2,259.01	3/4	1,900.58	3/4	1,542.15	3/4	1,183.73	3/4	825.69	3/4	469.02	3/4	145.25	3/4		3/4		3/4	
11	2,251.54	11	1,893.11	11	1,534.69	11	1,176.26	11	818.24	11	461.80	11	138.97	11		11		11	
1/4	2,244.07	1/4	1,885.65	1/4	1,527.22	1/4	1,168.79	1/4	810.78	1/4	454.58	1/4	132.70	1/4		1/4		1/4	
1/2	2,236.60	1/2	1,878.18	1/2	1,519.75	1/2	1,161.33	1/2	803.33	1/2	447.44	1/2	126.50	1/2		1/2		1/2	
3/4	2,229.14	3/4	1,870.71	3/4	1,512.29	3/4	1,153.86	3/4	795.88	3/4	440.30	3/4	120.31	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/26/2013 SW
RECALCULATED: 10/04/2018 SW
VERIFIED: 10/25/2023 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2023

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



BARGE "HTCO 3103"

2 PORT 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	4,777.13	0	4,419.17	0	4,059.93	0	3,700.60	0	3,341.28	0	2,981.96
1/4		1/4		1/4		1/4		1/4	4,769.71	1/4	4,411.70	1/4	4,052.44	1/4	3,693.12	1/4	3,333.79	1/4	2,974.47
1/2		1/2		1/2		1/2		1/2	4,762.28	1/2	4,404.24	1/2	4,044.95	1/2	3,685.63	1/2	3,326.31	1/2	2,966.99
3/4		3/4		3/4		3/4		3/4	4,754.86	3/4	4,396.76	3/4	4,037.47	3/4	3,678.14	3/4	3,318.82	3/4	2,959.50
1		1		1		1		1	4,747.43	1	4,389.29	1	4,029.98	1	3,670.66	1	3,311.34	1	2,952.01
1/4		1/4		1/4		1/4		1/4	5,084.73	1/4	4,740.01	1/4	4,381.81	1/4	4,022.50	1/4	3,663.17	1/4	3,303.85
1/2		1/2		1/2		1/2		1/2	5,079.98	1/2	4,732.58	1/2	4,374.33	1/2	4,015.01	1/2	3,655.69	1/2	3,296.36
3/4		3/4		3/4		3/4		3/4	5,074.15	3/4	4,725.14	3/4	4,366.85	3/4	4,007.52	3/4	3,648.20	3/4	3,288.88
2		2		2		2		2	5,068.33	2	4,717.70	2	4,359.36	2	4,000.04	2	3,640.72	2	3,281.39
1/4		1/4		1/4		1/4		1/4	5,062.51	1/4	4,710.25	1/4	4,351.88	1/4	3,992.55	1/4	3,633.23	1/4	3,273.91
1/2		1/2		1/2		1/2		1/2	5,056.68	1/2	4,702.81	1/2	4,344.39	1/2	3,985.07	1/2	3,625.74	1/2	3,266.42
3/4		3/4		3/4		3/4		3/4	5,049.85	3/4	4,695.34	3/4	4,336.90	3/4	3,977.58	3/4	3,618.26	3/4	3,258.93
3		3		3		3		3	5,043.03	3	4,687.88	3	4,329.42	3	3,970.09	3	3,610.77	3	3,251.45
1/4		1/4		1/4		1/4		1/4	5,036.20	1/4	4,680.41	1/4	4,321.93	1/4	3,962.61	1/4	3,603.29	1/4	3,243.96
1/2		1/2		1/2		1/2		1/2	5,029.37	1/2	4,672.95	1/2	4,314.45	1/2	3,955.12	1/2	3,595.80	1/2	3,236.48
3/4		3/4		3/4		3/4		3/4	5,022.01	3/4	4,665.49	3/4	4,306.96	3/4	3,947.64	3/4	3,588.31	3/4	3,228.99
4		4		4		4		4	5,014.65	4	4,658.02	4	4,299.47	4	3,940.15	4	3,580.83	4	3,221.50
1/4		1/4		1/4		1/4		1/4	5,007.29	1/4	4,650.56	1/4	4,291.99	1/4	3,932.67	1/4	3,573.34	1/4	3,214.02
1/2		1/2		1/2		1/2		1/2	4,999.92	1/2	4,643.09	1/2	4,284.50	1/2	3,925.18	1/2	3,565.86	1/2	3,206.53
3/4		3/4		3/4		3/4		3/4	4,992.49	3/4	4,635.63	3/4	4,277.02	3/4	3,917.69	3/4	3,558.37	3/4	3,199.05
5		5		5		5		5	4,985.07	5	4,628.16	5	4,269.53	5	3,910.21	5	3,550.88	5	3,191.56
1/4		1/4		1/4		1/4		1/4	4,977.64	1/4	4,620.70	1/4	4,262.04	1/4	3,902.72	1/4	3,543.40	1/4	3,184.08
1/2		1/2		1/2		1/2		1/2	4,970.21	1/2	4,613.24	1/2	4,254.56	1/2	3,895.24	1/2	3,535.91	1/2	3,176.59
3/4		3/4		3/4		3/4		3/4	4,962.78	3/4	4,605.77	3/4	4,247.07	3/4	3,887.75	3/4	3,528.43	3/4	3,169.10
6		6		6		6		6	4,955.35	6	4,598.31	6	4,239.59	6	3,880.26	6	3,520.94	6	3,161.62
1/4		1/4		1/4		1/4		1/4	4,947.92	1/4	4,590.84	1/4	4,232.10	1/4	3,872.78	1/4	3,513.45	1/4	3,154.13
1/2		1/2		1/2		1/2		1/2	4,940.49	1/2	4,583.38	1/2	4,224.62	1/2	3,865.29	1/2	3,505.97	1/2	3,146.65
3/4		3/4		3/4		3/4		3/4	4,933.07	3/4	4,575.92	3/4	4,217.13	3/4	3,857.81	3/4	3,498.48	3/4	3,139.16
7		7		7		7		7	4,925.64	7	4,568.45	7	4,209.64	7	3,850.32	7	3,491.00	7	3,131.67
1/4		1/4		1/4		1/4		1/4	4,918.21	1/4	4,560.99	1/4	4,202.16	1/4	3,842.83	1/4	3,483.51	1/4	3,124.19
1/2		1/2		1/2		1/2		1/2	4,910.78	1/2	4,553.52	1/2	4,194.67	1/2	3,835.35	1/2	3,476.03	1/2	3,116.70
3/4		3/4		3/4		3/4		3/4	4,903.35	3/4	4,546.06	3/4	4,187.19	3/4	3,827.86	3/4	3,468.54	3/4	3,109.22
8		8		8		8		8	4,895.93	8	4,538.59	8	4,179.70	8	3,820.38	8	3,461.05	8	3,101.73
1/4		1/4		1/4		1/4		1/4	4,888.50	1/4	4,531.13	1/4	4,172.21	1/4	3,812.89	1/4	3,453.57	1/4	3,094.24
1/2		1/2		1/2		1/2		1/2	4,881.07	1/2	4,523.67	1/2	4,164.73	1/2	3,805.40	1/2	3,446.08	1/2	3,086.76
3/4		3/4		3/4		3/4		3/4	4,873.65	3/4	4,516.20	3/4	4,157.24	3/4	3,797.92	3/4	3,438.60	3/4	3,079.27
9		9		9		9		9	4,866.23	9	4,508.74	9	4,149.76	9	3,790.43	9	3,431.11	9	3,071.79
1/4		1/4		1/4		1/4		1/4	4,858.80	1/4	4,501.27	1/4	4,142.27	1/4	3,782.95	1/4	3,423.62	1/4	3,064.30
1/2		1/2		1/2		1/2		1/2	4,851.38	1/2	4,493.81	1/2	4,134.78	1/2	3,775.46	1/2	3,416.14	1/2	3,056.81
3/4		3/4		3/4		3/4		3/4	4,843.95	3/4	4,486.35	3/4	4,127.30	3/4	3,767.98	3/4	3,408.65	3/4	3,049.33
10		10		10		10		10	4,836.53	10	4,478.88	10	4,119.81	10	3,760.49	10	3,401.17	10	3,041.84
1/4		1/4		1/4		1/4		1/4	4,829.10	1/4	4,471.42	1/4	4,112.33	1/4	3,753.00	1/4	3,393.68	1/4	3,034.36
1/2		1/2		1/2		1/2		1/2	4,821.68	1/2	4,463.95	1/2	4,104.84	1/2	3,745.52	1/2	3,386.19	1/2	3,026.87
3/4		3/4		3/4		3/4		3/4	4,814.25	3/4	4,456.49	3/4	4,097.36	3/4	3,738.03	3/4	3,378.71	3/4	3,019.39
11		11		11		11		11	4,806.83	11	4,449.02	11	4,089.87	11	3,730.55	11	3,371.22	11	3,011.90
1/4		1/4		1/4		1/4		1/4	4,799.41	1/4	4,441.56	1/4	4,082.38	1/4	3,723.06	1/4	3,363.74	1/4	3,004.41
1/2		1/2		1/2		1/2		1/2	4,791.98	1/2	4,434.10	1/2	4,074.90	1/2	3,715.57	1/2	3,356.25	1/2	2,996.93
3/4		3/4		3/4		3/4		3/4	4,784.56	3/4	4,426.63	3/4	4,067.41	3/4	3,708.09	3/4	3,348.76	3/4	2,989.44

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 WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-07" 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 3103"

2 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,622.45	0	2,262.93	0	1,903.41	0	1,543.89	0	1,184.65	0	838.92	0	479.71	0	120.20	0		0	
1/4	2,614.96	1/4	2,255.44	1/4	1,895.92	1/4	1,536.40	1/4	1,177.30	1/4	831.58	1/4	472.22	1/4	112.71	1/4		1/4	
1/2	2,607.47	1/2	2,247.95	1/2	1,888.43	1/2	1,528.91	1/2	1,169.95	1/2	824.24	1/2	464.73	1/2	105.22	1/2		1/2	
3/4	2,599.98	3/4	2,240.46	3/4	1,880.94	3/4	1,521.42	3/4	1,162.75	3/4	816.76	3/4	457.24	3/4	97.73	3/4		3/4	
1	2,592.49	1	2,232.97	1	1,873.45	1	1,513.93	1	1,155.54	1	809.27	1	449.75	1	90.24	1		1	
1/4	2,585.00	1/4	2,225.48	1/4	1,865.96	1/4	1,506.44	1/4	1,148.33	1/4	801.78	1/4	442.27	1/4	82.75	1/4		1/4	
1/2	2,577.51	1/2	2,217.99	1/2	1,858.47	1/2	1,498.95	1/2	1,141.12	1/2	794.29	1/2	434.78	1/2	75.26	1/2		1/2	
3/4	2,570.02	3/4	2,210.50	3/4	1,850.98	3/4	1,491.46	3/4	1,133.92	3/4	786.80	3/4	427.29	3/4	68.24	3/4		3/4	
2	2,562.53	2	2,203.01	2	1,843.49	2	1,483.97	2	1,126.72	2	779.31	2	419.80	2	61.22	2		2	
1/4	2,555.04	1/4	2,195.52	1/4	1,836.00	1/4	1,476.48	1/4	1,119.52	1/4	771.82	1/4	412.31	1/4	54.20	1/4		1/4	
1/2	2,547.55	1/2	2,188.03	1/2	1,828.51	1/2	1,468.99	1/2	1,112.32	1/2	764.33	1/2	404.82	1/2	47.18	1/2		1/2	
3/4	2,540.06	3/4	2,180.54	3/4	1,821.02	3/4	1,461.50	3/4	1,105.13	3/4	756.84	3/4	397.33	3/4	41.56	3/4		3/4	
3	2,532.57	3	2,173.05	3	1,813.53	3	1,454.01	3	1,097.94	3	749.35	3	389.84	3	35.94	3		3	
1/4	2,525.08	1/4	2,165.56	1/4	1,806.04	1/4	1,446.52	1/4	1,090.74	1/4	741.86	1/4	382.35	1/4	30.33	1/4		1/4	
1/2	2,517.59	1/2	2,158.07	1/2	1,798.55	1/2	1,439.03	1/2	1,083.55	1/2	734.37	1/2	374.86	1/2	24.71	1/2		1/2	
3/4	2,510.10	3/4	2,150.58	3/4	1,791.06	3/4	1,431.54	3/4	1,076.36	3/4	726.88	3/4	367.37	3/4	20.96	3/4		3/4	
4	2,502.61	4	2,143.09	4	1,783.57	4	1,424.05	4	1,069.17	4	719.39	4	359.88	4		4		4	
1/4	2,495.12	1/4	2,135.60	1/4	1,776.08	1/4	1,416.56	1/4	1,061.98	1/4	711.90	1/4	352.39	1/4		1/4		1/4	
1/2	2,487.63	1/2	2,128.11	1/2	1,768.59	1/2	1,409.07	1/2	1,054.79	1/2	704.41	1/2	344.90	1/2		1/2		1/2	
3/4	2,480.14	3/4	2,120.62	3/4	1,761.10	3/4	1,401.58	3/4	1,047.61	3/4	696.92	3/4	337.41	3/4		3/4		3/4	
5	2,472.65	5	2,113.13	5	1,753.61	5	1,394.09	5	1,040.42	5	689.43	5	329.92	5		5		5	
1/4	2,465.16	1/4	2,105.64	1/4	1,746.12	1/4	1,386.60	1/4	1,033.24	1/4	681.94	1/4	322.43	1/4		1/4		1/4	
1/2	2,457.67	1/2	2,098.15	1/2	1,738.63	1/2	1,379.11	1/2	1,026.05	1/2	674.45	1/2	314.94	1/2		1/2		1/2	
3/4	2,450.18	3/4	2,090.66	3/4	1,731.14	3/4	1,371.62	3/4	1,018.86	3/4	666.96	3/4	307.45	3/4		3/4		3/4	
6	2,442.69	6	2,083.17	6	1,723.65	6	1,364.13	6	1,011.68	6	659.47	6	299.96	6		6		6	
1/4	2,435.20	1/4	2,075.68	1/4	1,716.16	1/4	1,356.64	1/4	1,004.49	1/4	651.98	1/4	292.47	1/4		1/4		1/4	
1/2	2,427.71	1/2	2,068.19	1/2	1,708.67	1/2	1,349.15	1/2	997.31	1/2	644.49	1/2	284.98	1/2		1/2		1/2	
3/4	2,420.22	3/4	2,060.70	3/4	1,701.18	3/4	1,341.66	3/4	990.12	3/4	637.00	3/4	277.49	3/4		3/4		3/4	
7	2,412.73	7	2,053.21	7	1,693.69	7	1,334.17	7	982.93	7	629.51	7	270.00	7		7		7	
1/4	2,405.24	1/4	2,045.72	1/4	1,686.20	1/4	1,326.68	1/4	975.75	1/4	622.02	1/4	262.51	1/4		1/4		1/4	
1/2	2,397.75	1/2	2,038.23	1/2	1,678.71	1/2	1,319.19	1/2	968.56	1/2	614.53	1/2	255.02	1/2		1/2		1/2	
3/4	2,390.26	3/4	2,030.74	3/4	1,671.22	3/4	1,311.70	3/4	961.38	3/4	607.04	3/4	247.53	3/4		3/4		3/4	
8	2,382.77	8	2,023.25	8	1,663.73	8	1,304.21	8	954.19	8	599.55	8	240.04	8		8		8	
1/4	2,375.28	1/4	2,015.76	1/4	1,656.24	1/4	1,296.72	1/4	947.01	1/4	592.06	1/4	232.55	1/4		1/4		1/4	
1/2	2,367.79	1/2	2,008.27	1/2	1,648.75	1/2	1,289.23	1/2	939.82	1/2	584.57	1/2	225.06	1/2		1/2		1/2	
3/4	2,360.30	3/4	2,000.78	3/4	1,641.26	3/4	1,281.74	3/4	932.63	3/4	577.08	3/4	217.57	3/4		3/4		3/4	
9	2,352.81	9	1,993.29	9	1,633.77	9	1,274.25	9	925.45	9	569.59	9	210.08	9		9		9	
1/4	2,345.32	1/4	1,985.80	1/4	1,626.28	1/4	1,266.76	1/4	918.26	1/4	562.10	1/4	202.59	1/4		1/4		1/4	
1/2	2,337.83	1/2	1,978.31	1/2	1,618.79	1/2	1,259.27	1/2	911.08	1/2	554.61	1/2	195.10	1/2		1/2		1/2	
3/4	2,330.34	3/4	1,970.82	3/4	1,611.30	3/4	1,251.78	3/4	903.89	3/4	547.12	3/4	187.61	3/4		3/4		3/4	
10	2,322.85	10	1,963.33	10	1,603.81	10	1,244.29	10	896.70	10	539.63	10	180.12	10		10		10	
1/4	2,315.36	1/4	1,955.84	1/4	1,596.32	1/4	1,236.80	1/4	889.52	1/4	532.14	1/4	172.63	1/4		1/4		1/4	
1/2	2,307.87	1/2	1,948.35	1/2	1,588.83	1/2	1,229.31	1/2	882.33	1/2	524.65	1/2	165.14	1/2		1/2		1/2	
3/4	2,300.38	3/4	1,940.86	3/4	1,581.34	3/4	1,221.82	3/4	875.15	3/4	517.16	3/4	157.65	3/4		3/4		3/4	
11	2,292.89	11	1,933.37	11	1,573.85	11	1,214.33	11	867.96	11	509.67	11	150.16	11		11		11	
1/4	2,285.40	1/4	1,925.88	1/4	1,566.36	1/4	1,206.84	1/4	860.77	1/4	502.18	1/4	142.67	1/4		1/4		1/4	
1/2	2,277.91	1/2	1,918.39	1/2	1,558.87	1/2	1,199.35	1/2	853.59	1/2	494.69	1/2	135.18	1/2		1/2		1/2	
3/4	2,270.42	3/4	1,910.90	3/4	1,551.38	3/4	1,192.00	3/4	846.25	3/4	487.20	3/4	127.69	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/26/2013 SW
RECALCULATED: 10/04/2018 SW
VERIFIED: 10/25/2023 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2023

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



BARGE "HTCO 3103"

2 STBD ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-04"

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	4,798.46	0	4,440.53	0	4,081.32	0	3,721.99	0	3,362.67	0	3,003.35
1/4		1/4		1/4		1/4		1/4	4,791.03	1/4	4,433.07	1/4	4,073.83	1/4	3,714.51	1/4	3,355.18	1/4	2,995.86
1/2		1/2		1/2		1/2		1/2	4,783.61	1/2	4,425.61	1/2	4,066.34	1/2	3,707.02	1/2	3,347.70	1/2	2,988.38
3/4		3/4		3/4		3/4		3/4	4,776.18	3/4	4,418.14	3/4	4,058.86	3/4	3,699.53	3/4	3,340.21	3/4	2,980.89
1		1		1		1		1	4,768.76	1	4,410.66	1	4,051.37	1	3,692.05	1	3,332.73	1	2,973.40
1/4		1/4		1/4		1/4		1/4	4,761.33	1/4	4,403.19	1/4	4,043.89	1/4	3,684.56	1/4	3,325.24	1/4	2,965.91
1/2		1/2		1/2		1/2	5,098.62	1/2	4,753.91	1/2	4,395.71	1/2	4,036.40	1/2	3,677.08	1/2	3,317.75	1/2	2,958.42
3/4		3/4		3/4		3/4	5,093.87	3/4	4,746.49	3/4	4,388.24	3/4	4,028.91	3/4	3,669.59	3/4	3,310.27	3/4	2,950.93
2		2		2		2		2	5,088.04	2	4,739.04	2	4,380.75	2	4,021.43	2	3,662.10	2	2,943.44
1/4		1/4		1/4		1/4	5,082.22	1/4	4,731.60	1/4	4,373.27	1/4	4,013.94	1/4	3,654.62	1/4	3,295.30	1/4	2,935.95
1/2		1/2		1/2		1/2	5,076.40	1/2	4,724.15	1/2	4,365.78	1/2	4,006.46	1/2	3,647.13	1/2	3,287.81	1/2	2,928.46
3/4		3/4		3/4		3/4	5,070.57	3/4	4,716.71	3/4	4,358.29	3/4	3,998.97	3/4	3,639.65	3/4	3,280.32	3/4	2,920.97
3		3		3		3		3	5,063.75	3	4,709.24	3	4,350.81	3	3,991.48	3	3,632.16	3	2,913.48
1/4		1/4		1/4		1/4	5,056.92	1/4	4,701.78	1/4	4,343.32	1/4	3,984.00	1/4	3,624.68	1/4	3,265.35	1/4	2,905.99
1/2		1/2		1/2		1/2	5,050.09	1/2	4,694.32	1/2	4,335.84	1/2	3,976.51	1/2	3,617.19	1/2	3,257.87	1/2	2,898.50
3/4		3/4		3/4		3/4	5,043.27	3/4	4,686.85	3/4	4,328.35	3/4	3,969.03	3/4	3,609.70	3/4	3,250.38	3/4	2,891.01
4		4		4		4		4	5,035.90	4	4,679.39	4	4,320.86	4	3,961.54	4	3,602.22	4	2,883.52
1/4		1/4		1/4		1/4	5,028.54	1/4	4,671.92	1/4	4,313.38	1/4	3,954.05	1/4	3,594.73	1/4	3,235.41	1/4	2,876.03
1/2		1/2		1/2		1/2	5,021.18	1/2	4,664.46	1/2	4,305.89	1/2	3,946.57	1/2	3,587.25	1/2	3,227.92	1/2	2,868.54
3/4		3/4		3/4		3/4	5,013.82	3/4	4,657.00	3/4	4,298.41	3/4	3,939.08	3/4	3,579.76	3/4	3,220.44	3/4	2,861.05
5		5		5		5		5	5,006.39	5	4,649.53	5	4,290.92	5	3,931.60	5	3,572.27	5	2,853.56
1/4		1/4		1/4		1/4	4,998.96	1/4	4,642.07	1/4	4,283.43	1/4	3,924.11	1/4	3,564.79	1/4	3,205.46	1/4	2,846.07
1/2		1/2		1/2		1/2	4,991.53	1/2	4,634.60	1/2	4,275.95	1/2	3,916.63	1/2	3,557.30	1/2	3,197.98	1/2	2,838.58
3/4		3/4		3/4		3/4	4,984.11	3/4	4,627.14	3/4	4,268.46	3/4	3,909.14	3/4	3,549.82	3/4	3,190.49	3/4	2,831.09
6		6		6		6		6	4,976.68	6	4,619.67	6	4,260.98	6	3,901.65	6	3,542.33	6	2,823.60
1/4		1/4		1/4		1/4	4,969.25	1/4	4,612.21	1/4	4,253.49	1/4	3,894.17	1/4	3,534.84	1/4	3,183.01	1/4	2,816.11
1/2		1/2		1/2		1/2	4,961.82	1/2	4,604.75	1/2	4,246.00	1/2	3,886.68	1/2	3,527.36	1/2	3,175.52	1/2	2,808.62
3/4		3/4		3/4		3/4	4,954.39	3/4	4,597.28	3/4	4,238.52	3/4	3,879.20	3/4	3,519.87	3/4	3,168.04	3/4	2,801.13
7		7		7		7		7	4,946.96	7	4,589.82	7	4,231.03	7	3,871.71	7	3,512.39	7	2,793.64
1/4		1/4		1/4		1/4	4,939.54	1/4	4,582.35	1/4	4,223.55	1/4	3,864.22	1/4	3,504.90	1/4	3,145.58	1/4	2,786.15
1/2		1/2		1/2		1/2	4,932.11	1/2	4,574.89	1/2	4,216.06	1/2	3,856.74	1/2	3,497.41	1/2	3,138.09	1/2	2,778.66
3/4		3/4		3/4		3/4	4,924.68	3/4	4,567.42	3/4	4,208.58	3/4	3,849.25	3/4	3,489.93	3/4	3,130.61	3/4	2,771.17
8		8		8		8		8	4,917.25	8	4,559.96	8	4,201.09	8	3,841.77	8	3,482.44	8	2,763.68
1/4		1/4		1/4		1/4	4,909.83	1/4	4,552.50	1/4	4,193.60	1/4	3,834.28	1/4	3,474.96	1/4	3,123.12	1/4	2,756.19
1/2		1/2		1/2		1/2	4,902.40	1/2	4,545.03	1/2	4,186.12	1/2	3,826.79	1/2	3,467.47	1/2	3,115.63	1/2	2,748.70
3/4		3/4		3/4		3/4	4,894.97	3/4	4,537.57	3/4	4,178.63	3/4	3,819.31	3/4	3,459.99	3/4	3,108.15	3/4	2,741.21
9		9		9		9		9	4,887.55	9	4,530.10	9	4,171.15	9	3,811.82	9	3,452.50	9	2,733.72
1/4		1/4		1/4		1/4	4,880.12	1/4	4,522.64	1/4	4,163.66	1/4	3,804.34	1/4	3,445.01	1/4	3,093.18	1/4	2,726.23
1/2		1/2		1/2		1/2	4,872.70	1/2	4,515.18	1/2	4,156.17	1/2	3,796.85	1/2	3,437.53	1/2	3,085.69	1/2	2,718.74
3/4		3/4		3/4		3/4	4,865.28	3/4	4,507.71	3/4	4,148.69	3/4	3,789.37	3/4	3,430.04	3/4	3,078.20	3/4	2,711.25
10		10		10		10		10	4,857.85	10	4,500.25	10	4,141.20	10	3,781.88	10	3,422.56	10	2,703.76
1/4		1/4		1/4		1/4	4,850.43	1/4	4,492.78	1/4	4,133.72	1/4	3,774.39	1/4	3,415.07	1/4	3,063.23	1/4	2,696.27
1/2		1/2		1/2		1/2	4,843.00	1/2	4,485.32	1/2	4,126.23	1/2	3,766.91	1/2	3,407.58	1/2	3,055.75	1/2	2,688.78
3/4		3/4		3/4		3/4	4,835.58	3/4	4,477.85	3/4	4,118.74	3/4	3,759.42	3/4	3,400.10	3/4	3,048.26	3/4	2,681.29
11		11		11		11		11	4,828.15	11	4,470.39	11	4,111.26	11	3,751.94	11	3,033.29	11	2,673.80
1/4		1/4		1/4		1/4	4,820.73	1/4	4,462.93	1/4	4,103.77	1/4	3,744.45	1/4	3,392.61	1/4	3,025.80	1/4	2,666.31
1/2		1/2		1/2		1/2	4,813.30	1/2	4,455.46	1/2	4,096.29	1/2	3,736.96	1/2	3,385.13	1/2	3,018.32	1/2	2,658.82
3/4		3/4		3/4		3/4	4,805.88	3/4	4,448.00	3/4	4,088.80	3/4	3,729.48	3/4	3,377.64	3/4	3,010.83	3/4	2,651.33

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 WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-07" 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 3103"

2 STBD
ULLAGE TABLE
HERMETIC
GAUGE HEIGHT 17'-04"

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	2,643.84	0	2,284.32	0	1,924.80	0	1,565.28	0	1,205.76	0	846.68	0	487.20	0	127.69	0		0	
1/4	2,636.35	1/4	2,276.83	1/4	1,917.31	1/4	1,557.79	1/4	1,198.27	1/4	839.20	1/4	479.71	1/4	120.20	1/4		1/4	
1/2	2,628.86	1/2	2,269.34	1/2	1,909.82	1/2	1,550.30	1/2	1,190.78	1/2	831.72	1/2	472.22	1/2	112.71	1/2		1/2	
3/4	2,621.37	3/4	2,261.85	3/4	1,902.33	3/4	1,542.81	3/4	1,183.29	3/4	824.23	3/4	464.73	3/4	105.22	3/4		3/4	
1	2,613.88	1	2,254.36	1	1,894.84	1	1,535.32	1	1,175.80	1	816.74	1	457.24	1	97.73	1		1	
1/4	2,606.39	1/4	2,246.87	1/4	1,887.35	1/4	1,527.83	1/4	1,168.31	1/4	809.25	1/4	449.75	1/4	90.24	1/4		1/4	
1/2	2,598.90	1/2	2,239.38	1/2	1,879.86	1/2	1,520.34	1/2	1,160.82	1/2	801.76	1/2	442.26	1/2	82.75	1/2		1/2	
3/4	2,591.41	3/4	2,231.89	3/4	1,872.37	3/4	1,512.85	3/4	1,153.33	3/4	794.27	3/4	434.77	3/4	75.26	3/4		3/4	
2	2,583.92	2	2,224.40	2	1,864.88	2	1,505.36	2	1,145.84	2	786.78	2	427.28	2	68.24	2		2	
1/4	2,576.43	1/4	2,216.91	1/4	1,857.39	1/4	1,497.87	1/4	1,138.36	1/4	779.29	1/4	419.79	1/4	61.22	1/4		1/4	
1/2	2,568.94	1/2	2,209.42	1/2	1,849.90	1/2	1,490.38	1/2	1,130.87	1/2	771.80	1/2	412.30	1/2	54.20	1/2		1/2	
3/4	2,561.45	3/4	2,201.93	3/4	1,842.41	3/4	1,482.89	3/4	1,123.38	3/4	764.31	3/4	404.81	3/4	47.18	3/4		3/4	
3	2,553.96	3	2,194.44	3	1,834.92	3	1,475.40	3	1,115.90	3	756.82	3	397.32	3	41.56	3		3	
1/4	2,546.47	1/4	2,186.95	1/4	1,827.43	1/4	1,467.91	1/4	1,108.41	1/4	749.34	1/4	389.83	1/4	35.94	1/4		1/4	
1/2	2,538.98	1/2	2,179.46	1/2	1,819.94	1/2	1,460.42	1/2	1,100.93	1/2	741.85	1/2	382.34	1/2	30.32	1/2		1/2	
3/4	2,531.49	3/4	2,171.97	3/4	1,812.45	3/4	1,452.93	3/4	1,093.45	3/4	734.36	3/4	374.85	3/4	24.71	3/4		3/4	
4	2,524.00	4	2,164.48	4	1,804.96	4	1,445.44	4	1,085.96	4	726.87	4	367.36	4	20.96	4		4	
1/4	2,516.51	1/4	2,156.99	1/4	1,797.47	1/4	1,437.95	1/4	1,078.48	1/4	719.38	1/4	359.87	1/4		1/4		1/4	
1/2	2,509.02	1/2	2,149.50	1/2	1,789.98	1/2	1,430.46	1/2	1,071.00	1/2	711.89	1/2	352.38	1/2		1/2		1/2	
3/4	2,501.53	3/4	2,142.01	3/4	1,782.49	3/4	1,422.97	3/4	1,063.52	3/4	704.40	3/4	344.89	3/4		3/4		3/4	
5	2,494.04	5	2,134.52	5	1,775.00	5	1,415.48	5	1,056.04	5	696.91	5	337.40	5		5		5	
1/4	2,486.55	1/4	2,127.03	1/4	1,767.51	1/4	1,407.99	1/4	1,048.57	1/4	689.42	1/4	329.91	1/4		1/4		1/4	
1/2	2,479.06	1/2	2,119.54	1/2	1,760.02	1/2	1,400.50	1/2	1,041.09	1/2	681.93	1/2	322.42	1/2		1/2		1/2	
3/4	2,471.57	3/4	2,112.05	3/4	1,752.53	3/4	1,393.01	3/4	1,033.61	3/4	674.44	3/4	314.93	3/4		3/4		3/4	
6	2,464.08	6	2,104.56	6	1,745.04	6	1,385.52	6	1,026.14	6	666.95	6	307.44	6		6		6	
1/4	2,456.59	1/4	2,097.07	1/4	1,737.55	1/4	1,378.03	1/4	1,018.66	1/4	659.46	1/4	299.95	1/4		1/4		1/4	
1/2	2,449.10	1/2	2,089.58	1/2	1,730.06	1/2	1,370.54	1/2	1,011.18	1/2	651.97	1/2	292.46	1/2		1/2		1/2	
3/4	2,441.61	3/4	2,082.09	3/4	1,722.57	3/4	1,363.05	3/4	1,003.71	3/4	644.48	3/4	284.97	3/4		3/4		3/4	
7	2,434.12	7	2,074.60	7	1,715.08	7	1,355.56	7	996.23	7	636.99	7	277.48	7		7		7	
1/4	2,426.63	1/4	2,067.11	1/4	1,707.59	1/4	1,348.07	1/4	988.75	1/4	629.50	1/4	269.99	1/4		1/4		1/4	
1/2	2,419.14	1/2	2,059.62	1/2	1,700.10	1/2	1,340.58	1/2	981.28	1/2	622.01	1/2	262.50	1/2		1/2		1/2	
3/4	2,411.65	3/4	2,052.13	3/4	1,692.61	3/4	1,333.09	3/4	973.80	3/4	614.52	3/4	255.02	3/4		3/4		3/4	
8	2,404.16	8	2,044.64	8	1,685.12	8	1,325.60	8	966.32	8	607.03	8	247.53	8		8		8	
1/4	2,396.67	1/4	2,037.15	1/4	1,677.63	1/4	1,318.11	1/4	958.84	1/4	599.54	1/4	240.04	1/4		1/4		1/4	
1/2	2,389.18	1/2	2,029.66	1/2	1,670.14	1/2	1,310.62	1/2	951.37	1/2	592.05	1/2	232.55	1/2		1/2		1/2	
3/4	2,381.69	3/4	2,022.17	3/4	1,662.65	3/4	1,303.13	3/4	943.89	3/4	584.56	3/4	225.06	3/4		3/4		3/4	
9	2,374.20	9	2,014.68	9	1,655.16	9	1,295.64	9	936.41	9	577.07	9	217.57	9		9		9	
1/4	2,366.71	1/4	2,007.19	1/4	1,647.67	1/4	1,288.15	1/4	928.94	1/4	569.58	1/4	210.08	1/4		1/4		1/4	
1/2	2,359.22	1/2	1,999.70	1/2	1,640.18	1/2	1,280.66	1/2	921.46	1/2	562.09	1/2	202.59	1/2		1/2		1/2	
3/4	2,351.73	3/4	1,992.21	3/4	1,632.69	3/4	1,273.17	3/4	913.98	3/4	554.60	3/4	195.10	3/4		3/4		3/4	
10	2,344.24	10	1,984.72	10	1,625.20	10	1,265.68	10	906.51	10	547.11	10	187.61	10		10		10	
1/4	2,336.75	1/4	1,977.23	1/4	1,617.71	1/4	1,258.19	1/4	899.03	1/4	539.62	1/4	180.12	1/4		1/4		1/4	
1/2	2,329.26	1/2	1,969.74	1/2	1,610.22	1/2	1,250.70	1/2	891.55	1/2	532.13	1/2	172.63	1/2		1/2		1/2	
3/4	2,321.77	3/4	1,962.25	3/4	1,602.73	3/4	1,243.21	3/4	884.08	3/4	524.64	3/4	165.14	3/4		3/4		3/4	
11	2,314.28	11	1,954.76	11	1,595.24	11	1,235.72	11	876.60	11	517.15	11	157.65	11		11		11	
1/4	2,306.79	1/4	1,947.27	1/4	1,587.75	1/4	1,228.23	1/4	869.12	1/4	509.66	1/4	150.16	1/4		1/4		1/4	
1/2	2,299.30	1/2	1,939.78	1/2	1,580.26	1/2	1,220.74	1/2	861.64	1/2	502.18	1/2	142.67	1/2		1/2		1/2	
3/4	2,291.81	3/4	1,932.29	3/4	1,572.77	3/4	1,213.25	3/4	854.17	3/4	494.69	3/4	135.18	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/26/2013 SW
RECALCULATED: 10/04/2018 SW
VERIFIED: 10/25/2023 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2023

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



BARGE "HTCO 3103"

3 PORT ULLAGE TABLE

HERMETIC

GAUGE HEIGHT 17'-03 1/4"

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	4,377.84	0	4,131.13	0	3,883.59	0	3,636.01	0	3,306.91	0	2,949.99
1/4		1/4		1/4		1/4		1/4	4,372.73	1/4	4,125.98	1/4	3,878.43	1/4	3,630.85	1/4	3,299.49	1/4	2,942.55
1/2		1/2		1/2		1/2		1/2	4,367.61	1/2	4,120.83	1/2	3,873.27	1/2	3,625.70	1/2	3,292.08	1/2	2,935.11
3/4		3/4		3/4		3/4		3/4	4,596.40	3/4	4,362.50	3/4	4,115.68	3/4	3,868.11	3/4	3,620.54	3/4	3,284.66
1		1		1		1		1	4,593.95	1	4,357.38	1	4,110.53	1	3,862.96	1	3,615.38	1	3,277.24
1/4		1/4		1/4		1/4		1/4	4,590.43	1/4	4,352.25	1/4	4,105.37	1/4	3,857.80	1/4	3,610.22	1/4	3,269.81
1/2		1/2		1/2		1/2		1/2	4,586.91	1/2	4,347.12	1/2	4,100.21	1/2	3,852.64	1/2	3,605.07	1/2	3,262.38
3/4		3/4		3/4		3/4		3/4	4,583.39	3/4	4,341.99	3/4	4,095.06	3/4	3,847.48	3/4	3,599.91	3/4	3,254.96
2		2		2		2		2	4,579.87	2	4,336.86	2	4,089.90	2	3,842.32	2	3,594.75	2	3,247.53
1/4		1/4		1/4		1/4		1/4	4,575.35	1/4	4,331.72	1/4	4,084.74	1/4	3,837.17	1/4	3,589.02	1/4	3,240.09
1/2		1/2		1/2		1/2		1/2	4,570.83	1/2	4,326.57	1/2	4,079.58	1/2	3,832.01	1/2	3,583.28	1/2	3,232.65
3/4		3/4		3/4		3/4		3/4	4,566.32	3/4	4,321.43	3/4	4,074.43	3/4	3,826.85	3/4	3,577.55	3/4	3,225.21
3		3		3		3		3	4,561.80	3	4,316.29	3	4,069.27	3	3,821.69	3	3,571.82	3	3,217.77
1/4		1/4		1/4		1/4		1/4	4,556.74	1/4	4,311.14	1/4	4,064.11	1/4	3,816.54	1/4	3,566.95	1/4	3,210.34
1/2		1/2		1/2		1/2		1/2	4,551.69	1/2	4,306.00	1/2	4,058.95	1/2	3,811.38	1/2	3,558.08	1/2	3,202.90
3/4		3/4		3/4		3/4		3/4	4,546.64	3/4	4,300.86	3/4	4,053.79	3/4	3,806.22	3/4	3,551.21	3/4	3,195.46
4		4		4		4		4	4,541.59	4	4,295.71	4	4,048.64	4	3,801.06	4	3,544.34	4	3,188.02
1/4		1/4		1/4		1/4		1/4	4,536.47	1/4	4,290.57	1/4	4,043.48	1/4	3,795.90	1/4	3,536.91	1/4	3,180.58
1/2		1/2		1/2		1/2		1/2	4,531.35	1/2	4,285.43	1/2	4,038.32	1/2	3,790.75	1/2	3,529.48	1/2	3,173.14
3/4		3/4		3/4		3/4		3/4	4,526.23	3/4	4,280.28	3/4	4,033.16	3/4	3,785.59	3/4	3,522.05	3/4	3,165.71
5		5		5		5		5	4,521.11	5	4,275.14	5	4,028.00	5	3,780.43	5	3,514.63	5	3,158.27
1/4		1/4		1/4		1/4		1/4	4,516.00	1/4	4,270.00	1/4	4,022.85	1/4	3,775.27	1/4	3,507.20	1/4	3,150.83
1/2		1/2		1/2		1/2		1/2	4,510.88	1/2	4,264.85	1/2	4,017.69	1/2	3,770.11	1/2	3,499.78	1/2	3,143.39
3/4		3/4		3/4		3/4		3/4	4,505.76	3/4	4,259.71	3/4	4,012.53	3/4	3,764.96	3/4	3,492.36	3/4	3,135.95
6		6		6		6		6	4,500.64	6	4,254.57	6	4,007.37	6	3,759.80	6	3,484.93	6	3,128.51
1/4		1/4		1/4		1/4		1/4	4,495.52	1/4	4,249.42	1/4	4,002.22	1/4	3,754.64	1/4	3,477.52	1/4	3,121.08
1/2		1/2		1/2		1/2		1/2	4,490.40	1/2	4,244.28	1/2	3,997.06	1/2	3,749.48	1/2	3,470.10	1/2	3,113.64
3/4		3/4		3/4		3/4		3/4	4,485.28	3/4	4,239.14	3/4	3,991.90	3/4	3,744.33	3/4	3,462.68	3/4	3,106.20
7		7		7		7		7	4,480.17	7	4,233.99	7	3,986.74	7	3,739.17	7	3,455.26	7	3,098.76
1/4		1/4		1/4		1/4		1/4	4,475.05	1/4	4,228.85	1/4	3,981.58	1/4	3,734.01	1/4	3,447.85	1/4	3,091.32
1/2		1/2		1/2		1/2		1/2	4,469.93	1/2	4,223.71	1/2	3,976.43	1/2	3,728.85	1/2	3,440.43	1/2	3,083.89
3/4		3/4		3/4		3/4		3/4	4,464.82	3/4	4,218.56	3/4	3,971.27	3/4	3,723.69	3/4	3,433.01	3/4	3,076.45
8		8		8		8		8	4,459.70	8	4,213.42	8	3,966.11	8	3,718.54	8	3,425.59	8	3,069.01
1/4		1/4		1/4		1/4		1/4	4,454.58	1/4	4,208.28	1/4	3,960.95	1/4	3,713.38	1/4	3,418.17	1/4	3,061.57
1/2		1/2		1/2		1/2		1/2	4,449.47	1/2	4,203.13	1/2	3,955.80	1/2	3,708.22	1/2	3,410.76	1/2	3,054.13
3/4		3/4		3/4		3/4		3/4	4,444.35	3/4	4,197.99	3/4	3,950.64	3/4	3,703.06	3/4	3,403.34	3/4	3,046.69
9		9		9		9		9	4,439.23	9	4,192.85	9	3,945.48	9	3,697.91	9	3,395.92	9	3,039.26
1/4		1/4		1/4		1/4		1/4	4,434.12	1/4	4,187.71	1/4	3,940.32	1/4	3,692.75	1/4	3,388.50	1/4	3,031.82
1/2		1/2		1/2		1/2		1/2	4,429.00	1/2	4,182.56	1/2	3,935.16	1/2	3,687.59	1/2	3,381.09	1/2	3,024.38
3/4		3/4		3/4		3/4		3/4	4,423.89	3/4	4,177.42	3/4	3,930.01	3/4	3,682.43	3/4	3,373.67	3/4	3,016.94
10		10		10		10		10	4,418.77	10	4,172.28	10	3,924.85	10	3,677.27	10	3,366.25	10	3,009.50
1/4		1/4		1/4		1/4		1/4	4,413.66	1/4	4,167.13	1/4	3,919.69	1/4	3,672.12	1/4	3,358.83	1/4	3,002.06
1/2		1/2		1/2		1/2		1/2	4,408.54	1/2	4,161.99	1/2	3,914.53	1/2	3,666.96	1/2	3,351.42	1/2	2,994.63
3/4		3/4		3/4		3/4		3/4	4,403.42	3/4	4,156.85	3/4	3,909.38	3/4	3,661.80	3/4	3,344.00	3/4	2,987.19
11		11		11		11		11	4,398.31	11	4,151.70	11	3,904.22	11	3,656.64	11	3,336.58	11	2,979.75
1/4		1/4		1/4		1/4		1/4	4,393.19	1/4	4,146.56	1/4	3,899.06	1/4	3,651.49	1/4	3,329.16	1/4	2,972.31
1/2		1/2		1/2		1/2		1/2	4,388.08	1/2	4,141.42	1/2	3,893.90	1/2	3,646.33	1/2	3,321.75	1/2	2,964.87
3/4		3/4		3/4		3/4		3/4	4,382.96	3/4	4,136.27	3/4	3,888.74	3/4	3,641.17	3/4	3,314.33	3/4	2,957.43

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 WITH "HERMETIC" CLOSED GAUGING DEVICE.

GAUGE POINT: (HERMETIC) LOCATED 12'-07" OFF CENTERLINE AND 41'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HTCO 3103"

3 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	2,592.81	0	2,236.64	0	1,882.02	0	1,524.50	0	1,167.40	0	820.28	0	462.56	0	104.86	0		0	
1/4	2,585.36	1/4	2,229.26	1/4	1,874.57	1/4	1,517.05	1/4	1,160.16	1/4	812.83	1/4	455.11	1/4	97.39	1/4		1/4	
1/2	2,577.91	1/2	2,221.87	1/2	1,867.12	1/2	1,509.60	1/2	1,152.93	1/2	805.38	1/2	447.66	1/2	89.93	1/2		1/2	
3/4	2,570.46	3/4	2,214.49	3/4	1,859.67	3/4	1,502.15	3/4	1,145.69	3/4	797.93	3/4	440.21	3/4	82.47	3/4		3/4	
1	2,563.01	1	2,207.10	1	1,852.22	1	1,494.71	1	1,138.45	1	790.47	1	432.76	1	75.01	1		1	
1/4	2,555.57	1/4	2,199.72	1/4	1,844.78	1/4	1,487.26	1/4	1,131.22	1/4	783.02	1/4	425.31	1/4	68.01	1/4		1/4	
1/2	2,548.12	1/2	2,192.33	1/2	1,837.33	1/2	1,479.81	1/2	1,123.99	1/2	775.57	1/2	417.86	1/2	61.01	1/2		1/2	
3/4	2,540.67	3/4	2,184.95	3/4	1,829.88	3/4	1,472.36	3/4	1,116.75	3/4	768.12	3/4	410.41	3/4	54.01	3/4		3/4	
2	2,533.22	2	2,177.56	2	1,822.43	2	1,464.91	2	1,109.52	2	760.66	2	402.95	2	47.02	2		2	
1/4	2,525.77	1/4	2,170.18	1/4	1,814.98	1/4	1,457.46	1/4	1,102.30	1/4	753.21	1/4	395.50	1/4	41.42	1/4		1/4	
1/2	2,518.32	1/2	2,162.79	1/2	1,807.53	1/2	1,450.02	1/2	1,095.07	1/2	745.76	1/2	388.05	1/2	35.82	1/2		1/2	
3/4	2,510.88	3/4	2,155.41	3/4	1,800.09	3/4	1,442.57	3/4	1,087.85	3/4	738.31	3/4	380.60	3/4	30.22	3/4		3/4	
3	2,503.43	3	2,148.02	3	1,792.64	3	1,435.12	3	1,080.62	3	730.85	3	373.15	3	24.62	3		3	
1/4	2,496.00	1/4	2,140.64	1/4	1,785.19	1/4	1,427.67	1/4	1,073.40	1/4	723.40	1/4	365.70	1/4	20.89	1/4		1/4	
1/2	2,488.57	1/2	2,133.25	1/2	1,777.74	1/2	1,420.22	1/2	1,066.18	1/2	715.95	1/2	358.25	1/2		1/2		1/2	
3/4	2,481.14	3/4	2,125.86	3/4	1,770.29	3/4	1,412.77	3/4	1,058.96	3/4	708.50	3/4	350.79	3/4		3/4		3/4	
4	2,473.71	4	2,118.48	4	1,762.84	4	1,405.33	4	1,051.73	4	701.04	4	343.34	4		4		4	
1/4	2,466.30	1/4	2,111.09	1/4	1,755.40	1/4	1,397.88	1/4	1,044.52	1/4	693.59	1/4	335.89	1/4		1/4		1/4	
1/2	2,458.89	1/2	2,103.71	1/2	1,747.95	1/2	1,390.43	1/2	1,037.30	1/2	686.14	1/2	328.44	1/2		1/2		1/2	
3/4	2,451.48	3/4	2,096.32	3/4	1,740.50	3/4	1,382.98	3/4	1,030.08	3/4	678.69	3/4	320.99	3/4		3/4		3/4	
5	2,444.07	5	2,088.94	5	1,733.05	5	1,375.53	5	1,022.86	5	671.23	5	313.54	5		5		5	
1/4	2,436.66	1/4	2,081.55	1/4	1,725.60	1/4	1,368.08	1/4	1,015.64	1/4	663.78	1/4	306.09	1/4		1/4		1/4	
1/2	2,429.25	1/2	2,074.17	1/2	1,718.15	1/2	1,360.64	1/2	1,008.42	1/2	656.33	1/2	298.64	1/2		1/2		1/2	
3/4	2,421.84	3/4	2,066.78	3/4	1,710.71	3/4	1,353.19	3/4	1,001.21	3/4	648.87	3/4	291.18	3/4		3/4		3/4	
6	2,414.43	6	2,059.40	6	1,703.26	6	1,345.74	6	993.99	6	641.42	6	283.73	6		6		6	
1/4	2,407.02	1/4	2,052.01	1/4	1,695.81	1/4	1,338.29	1/4	986.77	1/4	633.97	1/4	276.28	1/4		1/4		1/4	
1/2	2,399.61	1/2	2,044.63	1/2	1,688.36	1/2	1,330.84	1/2	979.55	1/2	626.52	1/2	268.83	1/2		1/2		1/2	
3/4	2,392.20	3/4	2,037.24	3/4	1,680.91	3/4	1,323.39	3/4	972.33	3/4	619.06	3/4	261.38	3/4		3/4		3/4	
7	2,384.79	7	2,029.86	7	1,673.46	7	1,315.95	7	965.12	7	611.61	7	253.93	7		7		7	
1/4	2,377.38	1/4	2,022.47	1/4	1,666.02	1/4	1,308.50	1/4	957.90	1/4	604.16	1/4	246.48	1/4		1/4		1/4	
1/2	2,369.97	1/2	2,015.09	1/2	1,658.57	1/2	1,301.05	1/2	950.68	1/2	596.71	1/2	239.02	1/2		1/2		1/2	
3/4	2,362.56	3/4	2,007.70	3/4	1,651.12	3/4	1,293.60	3/4	943.46	3/4	589.25	3/4	231.57	3/4		3/4		3/4	
8	2,355.16	8	2,000.31	8	1,643.67	8	1,286.15	8	936.24	8	581.80	8	224.12	8		8		8	
1/4	2,347.75	1/4	1,992.93	1/4	1,636.22	1/4	1,278.70	1/4	929.02	1/4	574.35	1/4	216.67	1/4		1/4		1/4	
1/2	2,340.34	1/2	1,985.54	1/2	1,628.77	1/2	1,271.26	1/2	921.81	1/2	566.90	1/2	209.22	1/2		1/2		1/2	
3/4	2,332.93	3/4	1,978.16	3/4	1,621.33	3/4	1,263.81	3/4	914.59	3/4	559.44	3/4	201.76	3/4		3/4		3/4	
9	2,325.52	9	1,970.77	9	1,613.88	9	1,256.36	9	907.37	9	551.99	9	194.31	9		9		9	
1/4	2,318.11	1/4	1,963.39	1/4	1,606.43	1/4	1,248.91	1/4	900.15	1/4	544.54	1/4	186.86	1/4		1/4		1/4	
1/2	2,310.70	1/2	1,956.00	1/2	1,598.98	1/2	1,241.46	1/2	892.93	1/2	537.09	1/2	179.40	1/2		1/2		1/2	
3/4	2,303.29	3/4	1,948.62	3/4	1,591.53	3/4	1,234.01	3/4	885.71	3/4	529.63	3/4	171.95	3/4		3/4		3/4	
10	2,295.88	10	1,941.23	10	1,584.08	10	1,226.57	10	878.50	10	522.18	10	164.50	10		10		10	
1/4	2,288.47	1/4	1,933.85	1/4	1,576.64	1/4	1,219.12	1/4	871.28	1/4	514.73	1/4	157.04	1/4		1/4		1/4	
1/2	2,281.06	1/2	1,926.46	1/2	1,569.19	1/2	1,211.67	1/2	864.06	1/2	507.28	1/2	149.59	1/2		1/2		1/2	
3/4	2,273.65	3/4	1,919.08	3/4	1,561.74	3/4	1,204.22	3/4	856.84	3/4	499.82	3/4	142.14	3/4		3/4		3/4	
11	2,266.24	11	1,911.69	11	1,554.29	11	1,196.77	11	849.62	11	492.37	11	134.68	11		11		11	
1/4	2,258.84	1/4	1,904.27	1/4	1,546.84	1/4	1,189.43	1/4	842.29	1/4	484.92	1/4	127.23	1/4		1/4		1/4	
1/2	2,251.44	1/2	1,896.85	1/2	1,539.39	1/2	1,182.09	1/2	834.95	1/2	477.47	1/2	119.77	1/2		1/2		1/2	
3/4	2,244.04	3/4	1,889.44	3/4	1,531.95	3/4	1,174.74	3/4	827.62	3/4	470.02	3/4	112.31	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/26/2013 SW
RECALCULATED: 10/04/2018 SW
VERIFIED: 10/25/2023 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2023

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



BARGE "HTCO 3103"

3 STBD 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	4,404.78	0	4,158.03	0	3,910.43	0	3,662.79	0	3,335.49	0	2,977.81
1/4		1/4		1/4		1/4		1/4	4,399.67	1/4	4,152.89	1/4	3,905.27	1/4	3,657.63	1/4	3,328.05	1/4	2,970.35
1/2		1/2		1/2		1/2		1/2	4,394.55	1/2	4,147.73	1/2	3,900.11	1/2	3,652.47	1/2	3,320.62	1/2	2,962.89
3/4		3/4		3/4		3/4		3/4	4,389.43	3/4	4,142.58	3/4	3,894.95	3/4	3,647.31	3/4	3,313.19	3/4	2,955.43
1		1		1		1	4,618.29	1	4,384.31	1	4,137.42	1	3,889.79	1	3,642.16	1	3,305.75	1	2,947.98
1/4		1/4		1/4		1/4	4,615.84	1/4	4,379.20	1/4	4,132.27	1/4	3,884.63	1/4	3,637.00	1/4	3,298.32	1/4	2,940.52
1/2		1/2		1/2		1/2	4,612.32	1/2	4,374.07	1/2	4,127.11	1/2	3,879.47	1/2	3,631.84	1/2	3,290.87	1/2	2,933.06
3/4		3/4		3/4		3/4	4,608.80	3/4	4,368.94	3/4	4,121.95	3/4	3,874.31	3/4	3,626.68	3/4	3,283.43	3/4	2,925.61
2		2		2		2	4,605.28	2	4,363.80	2	4,116.79	2	3,869.16	2	3,621.52	2	3,275.98	2	2,918.15
1/4		1/4		1/4		1/4	4,601.75	1/4	4,358.67	1/4	4,111.63	1/4	3,864.00	1/4	3,616.36	1/4	3,268.54	1/4	2,910.69
1/2		1/2		1/2		1/2	4,597.23	1/2	4,353.53	1/2	4,106.47	1/2	3,858.84	1/2	3,610.63	1/2	3,261.08	1/2	2,903.23
3/4		3/4		3/4		3/4	4,592.71	3/4	4,348.38	3/4	4,101.31	3/4	3,853.68	3/4	3,604.89	3/4	3,253.63	3/4	2,895.78
3		3		3		3	4,588.19	3	4,343.24	3	4,096.16	3	3,848.52	3	3,599.16	3	3,246.18	3	2,888.32
1/4		1/4		1/4		1/4	4,583.67	1/4	4,338.10	1/4	4,091.00	1/4	3,843.36	1/4	3,593.42	1/4	3,238.72	1/4	2,880.86
1/2		1/2		1/2		1/2	4,578.62	1/2	4,332.95	1/2	4,085.84	1/2	3,838.20	1/2	3,586.55	1/2	3,231.27	1/2	2,873.40
3/4		3/4		3/4		3/4	4,573.56	3/4	4,327.81	3/4	4,080.68	3/4	3,833.04	3/4	3,579.68	3/4	3,223.81	3/4	2,865.95
4		4		4		4	4,568.51	4	4,322.66	4	4,075.52	4	3,827.88	4	3,572.81	4	3,216.36	4	2,858.49
1/4		1/4		1/4		1/4	4,563.46	1/4	4,317.52	1/4	4,070.36	1/4	3,822.72	1/4	3,565.94	1/4	3,208.90	1/4	2,851.03
1/2		1/2		1/2		1/2	4,558.34	1/2	4,312.37	1/2	4,065.20	1/2	3,817.56	1/2	3,558.50	1/2	3,201.45	1/2	2,843.58
3/4		3/4		3/4		3/4	4,553.22	3/4	4,307.23	3/4	4,060.04	3/4	3,812.41	3/4	3,551.07	3/4	3,193.99	3/4	2,836.12
5		5		5		5	4,548.10	5	4,302.08	5	4,054.88	5	3,807.25	5	3,543.64	5	3,186.54	5	2,828.66
1/4		1/4		1/4		1/4	4,542.98	1/4	4,296.94	1/4	4,049.72	1/4	3,802.09	1/4	3,536.20	1/4	3,179.08	1/4	2,821.20
1/2		1/2		1/2		1/2	4,537.86	1/2	4,291.79	1/2	4,044.56	1/2	3,796.93	1/2	3,528.77	1/2	3,171.63	1/2	2,813.75
3/4		3/4		3/4		3/4	4,532.74	3/4	4,286.65	3/4	4,039.41	3/4	3,791.77	3/4	3,521.33	3/4	3,164.17	3/4	2,806.29
6		6		6		6	4,527.62	6	4,281.50	6	4,034.25	6	3,786.61	6	3,513.90	6	3,156.72	6	2,798.83
1/4		1/4		1/4		1/4	4,522.50	1/4	4,276.36	1/4	4,029.09	1/4	3,781.45	1/4	3,506.47	1/4	3,149.27	1/4	2,791.37
1/2		1/2		1/2		1/2	4,517.38	1/2	4,271.21	1/2	4,023.93	1/2	3,776.29	1/2	3,499.03	1/2	3,141.81	1/2	2,783.92
3/4		3/4		3/4		3/4	4,512.26	3/4	4,266.07	3/4	4,018.77	3/4	3,771.13	3/4	3,491.60	3/4	3,134.36	3/4	2,776.46
7		7		7		7	4,507.14	7	4,260.92	7	4,013.61	7	3,765.97	7	3,484.17	7	3,126.90	7	2,769.00
1/4		1/4		1/4		1/4	4,502.02	1/4	4,255.78	1/4	4,008.45	1/4	3,760.81	1/4	3,476.73	1/4	3,119.45	1/4	2,761.54
1/2		1/2		1/2		1/2	4,496.90	1/2	4,250.64	1/2	4,003.29	1/2	3,755.66	1/2	3,469.30	1/2	3,111.99	1/2	2,754.09
3/4		3/4		3/4		3/4	4,491.78	3/4	4,245.49	3/4	3,998.13	3/4	3,750.50	3/4	3,461.86	3/4	3,104.54	3/4	2,746.63
8		8		8		8	4,486.66	8	4,240.35	8	3,992.97	8	3,745.34	8	3,454.43	8	3,097.08	8	2,739.17
1/4		1/4		1/4		1/4	4,481.54	1/4	4,235.20	1/4	3,987.81	1/4	3,740.18	1/4	3,447.00	1/4	3,089.63	1/4	2,731.72
1/2		1/2		1/2		1/2	4,476.43	1/2	4,230.06	1/2	3,982.66	1/2	3,735.02	1/2	3,439.56	1/2	3,082.17	1/2	2,724.26
3/4		3/4		3/4		3/4	4,471.31	3/4	4,224.91	3/4	3,977.50	3/4	3,729.86	3/4	3,432.13	3/4	3,074.72	3/4	2,716.80
9		9		9		9	4,466.19	9	4,219.77	9	3,972.34	9	3,724.70	9	3,424.69	9	3,067.26	9	2,709.34
1/4		1/4		1/4		1/4	4,461.07	1/4	4,214.62	1/4	3,967.18	1/4	3,719.54	1/4	3,417.26	1/4	3,059.81	1/4	2,701.89
1/2		1/2		1/2		1/2	4,455.96	1/2	4,209.48	1/2	3,962.02	1/2	3,714.38	1/2	3,409.83	1/2	3,052.36	1/2	2,694.43
3/4		3/4		3/4		3/4	4,450.84	3/4	4,204.33	3/4	3,956.86	3/4	3,709.22	3/4	3,402.39	3/4	3,044.90	3/4	2,686.97
10		10		10		10	4,445.72	10	4,199.19	10	3,951.70	10	3,704.06	10	3,394.96	10	3,037.45	10	2,679.51
1/4		1/4		1/4		1/4	4,440.60	1/4	4,194.04	1/4	3,946.54	1/4	3,698.91	1/4	3,387.52	1/4	3,029.99	1/4	2,672.06
1/2		1/2		1/2		1/2	4,435.49	1/2	4,188.90	1/2	3,941.38	1/2	3,693.75	1/2	3,380.09	1/2	3,022.54	1/2	2,664.60
3/4		3/4		3/4		3/4	4,430.37	3/4	4,183.75	3/4	3,936.22	3/4	3,688.59	3/4	3,372.66	3/4	3,015.08	3/4	2,657.14
11		11		11		11	4,425.25	11	4,178.61	11	3,931.06	11	3,683.43	11	3,365.22	11	3,007.63	11	2,649.69
1/4		1/4		1/4		1/4	4,420.14	1/4	4,173.46	1/4	3,925.91	1/4	3,678.27	1/4	3,357.79	1/4	3,000.17	1/4	2,642.23
1/2		1/2		1/2		1/2	4,415.02	1/2	4,168.32	1/2	3,920.75	1/2	3,673.11	1/2	3,350.35	1/2	2,992.72	1/2	2,634.77
3/4		3/4		3/4		3/4	4,409.90	3/4	4,163.18	3/4	3,915.59	3/4	3,667.95	3/4	3,342.92	3/4	2,985.26	3/4	2,627.31

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 WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-07" 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 3103"

3 STBD 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	2,619.85	0	2,261.55	0	1,903.25	0	1,544.95	0	1,186.65	0	828.89	0	470.61	0	112.33	0		0	
1/4	2,612.39	1/4	2,254.09	1/4	1,895.79	1/4	1,537.49	1/4	1,179.19	1/4	821.43	1/4	463.15	1/4	104.86	1/4		1/4	
1/2	2,604.92	1/2	2,246.62	1/2	1,888.32	1/2	1,530.02	1/2	1,171.72	1/2	813.97	1/2	455.68	1/2	97.40	1/2		1/2	
3/4	2,597.46	3/4	2,239.16	3/4	1,880.86	3/4	1,522.56	3/4	1,164.26	3/4	806.51	3/4	448.22	3/4	89.93	3/4		3/4	
1	2,589.99	1	2,231.69	1	1,873.39	1	1,515.09	1	1,156.79	1	799.04	1	440.76	1	82.47	1		1	
1/4	2,582.53	1/4	2,224.23	1/4	1,865.93	1/4	1,507.63	1/4	1,149.33	1/4	791.58	1/4	433.29	1/4	75.00	1/4		1/4	
1/2	2,575.07	1/2	2,216.76	1/2	1,858.46	1/2	1,500.16	1/2	1,141.87	1/2	784.11	1/2	425.83	1/2	68.01	1/2		1/2	
3/4	2,567.60	3/4	2,209.30	3/4	1,851.00	3/4	1,492.70	3/4	1,134.41	3/4	776.65	3/4	418.36	3/4	61.01	3/4		3/4	
2	2,560.14	2	2,201.84	2	1,843.53	2	1,485.23	2	1,126.95	2	769.18	2	410.90	2	54.01	2		2	
1/4	2,552.67	1/4	2,194.37	1/4	1,836.07	1/4	1,477.77	1/4	1,119.49	1/4	761.72	1/4	403.43	1/4	47.01	1/4		1/4	
1/2	2,545.21	1/2	2,186.91	1/2	1,828.61	1/2	1,470.30	1/2	1,112.03	1/2	754.26	1/2	395.97	1/2	41.41	1/2		1/2	
3/4	2,537.74	3/4	2,179.44	3/4	1,821.14	3/4	1,462.84	3/4	1,104.57	3/4	746.79	3/4	388.51	3/4	35.82	3/4		3/4	
3	2,530.28	3	2,171.98	3	1,813.68	3	1,455.38	3	1,097.12	3	739.33	3	381.04	3	30.22	3		3	
1/4	2,522.81	1/4	2,164.51	1/4	1,806.21	1/4	1,447.91	1/4	1,089.66	1/4	731.86	1/4	373.58	1/4	24.62	1/4		1/4	
1/2	2,515.35	1/2	2,157.05	1/2	1,798.75	1/2	1,440.45	1/2	1,082.21	1/2	724.40	1/2	366.11	1/2	20.89	1/2		1/2	
3/4	2,507.88	3/4	2,149.58	3/4	1,791.28	3/4	1,432.98	3/4	1,074.75	3/4	716.93	3/4	358.65	3/4		3/4		3/4	
4	2,500.42	4	2,142.12	4	1,783.82	4	1,425.52	4	1,067.30	4	709.47	4	351.18	4		4		4	
1/4	2,492.96	1/4	2,134.65	1/4	1,776.35	1/4	1,418.05	1/4	1,059.85	1/4	702.01	1/4	343.72	1/4		1/4		1/4	
1/2	2,485.49	1/2	2,127.19	1/2	1,768.89	1/2	1,410.59	1/2	1,052.40	1/2	694.54	1/2	336.26	1/2		1/2		1/2	
3/4	2,478.03	3/4	2,119.73	3/4	1,761.42	3/4	1,403.12	3/4	1,044.95	3/4	687.08	3/4	328.79	3/4		3/4		3/4	
5	2,470.56	5	2,112.26	5	1,753.96	5	1,395.66	5	1,037.50	5	679.61	5	321.33	5		5		5	
1/4	2,463.10	1/4	2,104.80	1/4	1,746.50	1/4	1,388.19	1/4	1,030.05	1/4	672.15	1/4	313.86	1/4		1/4		1/4	
1/2	2,455.63	1/2	2,097.33	1/2	1,739.03	1/2	1,380.73	1/2	1,022.60	1/2	664.68	1/2	306.40	1/2		1/2		1/2	
3/4	2,448.17	3/4	2,089.87	3/4	1,731.57	3/4	1,373.27	3/4	1,015.15	3/4	657.22	3/4	298.93	3/4		3/4		3/4	
6	2,440.70	6	2,082.40	6	1,724.10	6	1,365.80	6	1,007.70	6	649.76	6	291.47	6		6		6	
1/4	2,433.24	1/4	2,074.94	1/4	1,716.64	1/4	1,358.34	1/4	1,000.25	1/4	642.29	1/4	284.01	1/4		1/4		1/4	
1/2	2,425.77	1/2	2,067.47	1/2	1,709.17	1/2	1,350.87	1/2	992.80	1/2	634.83	1/2	276.54	1/2		1/2		1/2	
3/4	2,418.31	3/4	2,060.01	3/4	1,701.71	3/4	1,343.41	3/4	985.35	3/4	627.36	3/4	269.08	3/4		3/4		3/4	
7	2,410.84	7	2,052.54	7	1,694.24	7	1,335.94	7	977.90	7	619.90	7	261.61	7		7		7	
1/4	2,403.38	1/4	2,045.08	1/4	1,686.78	1/4	1,328.48	1/4	970.46	1/4	612.43	1/4	254.15	1/4		1/4		1/4	
1/2	2,395.92	1/2	2,037.61	1/2	1,679.31	1/2	1,321.01	1/2	963.01	1/2	604.97	1/2	246.68	1/2		1/2		1/2	
3/4	2,388.45	3/4	2,030.15	3/4	1,671.85	3/4	1,313.55	3/4	955.56	3/4	597.51	3/4	239.22	3/4		3/4		3/4	
8	2,380.99	8	2,022.69	8	1,664.38	8	1,306.08	8	948.11	8	590.04	8	231.76	8		8		8	
1/4	2,373.52	1/4	2,015.22	1/4	1,656.92	1/4	1,298.62	1/4	940.66	1/4	582.58	1/4	224.29	1/4		1/4		1/4	
1/2	2,366.06	1/2	2,007.76	1/2	1,649.46	1/2	1,291.15	1/2	933.21	1/2	575.11	1/2	216.83	1/2		1/2		1/2	
3/4	2,358.59	3/4	2,000.29	3/4	1,641.99	3/4	1,283.69	3/4	925.76	3/4	567.65	3/4	209.36	3/4		3/4		3/4	
9	2,351.13	9	1,992.83	9	1,634.53	9	1,276.23	9	918.31	9	560.18	9	201.90	9		9		9	
1/4	2,343.66	1/4	1,985.36	1/4	1,627.06	1/4	1,268.76	1/4	910.86	1/4	552.72	1/4	194.43	1/4		1/4		1/4	
1/2	2,336.20	1/2	1,977.90	1/2	1,619.60	1/2	1,261.30	1/2	903.41	1/2	545.26	1/2	186.97	1/2		1/2		1/2	
3/4	2,328.73	3/4	1,970.43	3/4	1,612.13	3/4	1,253.83	3/4	895.96	3/4	537.79	3/4	179.50	3/4		3/4		3/4	
10	2,321.27	10	1,962.97	10	1,604.67	10	1,246.37	10	888.51	10	530.33	10	172.04	10		10		10	
1/4	2,313.80	1/4	1,955.50	1/4	1,597.20	1/4	1,238.90	1/4	881.06	1/4	522.86	1/4	164.58	1/4		1/4		1/4	
1/2	2,306.34	1/2	1,948.04	1/2	1,589.74	1/2	1,231.44	1/2	873.61	1/2	515.40	1/2	157.11	1/2		1/2		1/2	
3/4	2,298.88	3/4	1,940.57	3/4	1,582.27	3/4	1,223.97	3/4	866.17	3/4	507.93	3/4	149.65	3/4		3/4		3/4	
11	2,291.41	11	1,933.11	11	1,574.81	11	1,216.51	11	858.72	11	500.47	11	142.18	11		11		11	
1/4	2,283.95	1/4	1,925.65	1/4	1,567.34	1/4	1,209.04	1/4	851.27	1/4	493.01	1/4	134.72	1/4		1/4		1/4	
1/2	2,276.48	1/2	1,918.18	1/2	1,559.88	1/2	1,201.58	1/2	843.81	1/2	485.54	1/2	127.25	1/2		1/2		1/2	
3/4	2,269.02	3/4	1,910.72	3/4	1,552.42	3/4	1,194.11	3/4	836.35	3/4	478.08	3/4	119.79	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/26/2013 SW
RECALCULATED: 10/04/2018 SW
VERIFIED: 10/25/2023 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2023

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



BARGE "HTCO 3103"

AFT SLOP TANK ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 5'-07 1/2"

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	1,627	0	1,178	0	730	0	281	0	0	0	0	0	0	0	0
1/4	1/4	1/4	1/4	1/4	1,618	1/4	1,169	1/4	720	1/4	271	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1,609	1/2	1,160	1/2	711	1/2	262	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	1,599	3/4	1,150	3/4	702	3/4	253	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1	1	1	1	1,590	1	1,141	1	692	1	243	1	1	1	1	1	1	1	1
1/4	1/4	1/4	1/4	1/4	1,581	1/4	1,132	1/4	683	1/4	234	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	2,020	1/2	1,571	1/2	1,122	1/2	225	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	2,011	3/4	1,562	3/4	1,113	3/4	215	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	2	2	2	2	1,552	2	1,104	2	655	2	206	2	2	2	2	2	2	2	2
1/4	1/4	1/4	1/4	1/4	1,992	1/4	1,543	1/4	1,094	1/4	197	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1,983	1/2	1,534	1/2	1,085	1/2	187	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	1,973	3/4	1,524	3/4	1,076	3/4	178	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	3	3	3	3	1,964	3	1,515	3	1,066	3	169	3	3	3	3	3	3	3	3
1/4	1/4	1/4	1/4	1/4	1,955	1/4	1,506	1/4	1,057	1/4	159	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1,945	1/2	1,496	1/2	1,048	1/2	150	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	1,936	3/4	1,487	3/4	1,038	3/4	140	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	4	4	4	4	1,926	4	1,478	4	1,029	4	131	4	4	4	4	4	4	4	4
1/4	1/4	1/4	1/4	1/4	1,917	1/4	1,468	1/4	1,019	1/4	122	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1,908	1/2	1,459	1/2	1,010	1/2	112	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	1,898	3/4	1,450	3/4	1,001	3/4	103	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	5	5	5	5	1,889	5	1,440	5	991	5	94	5	5	5	5	5	5	5	5
1/4	1/4	1/4	1/4	1/4	1,880	1/4	1,431	1/4	982	1/4	84	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1,870	1/2	1,422	1/2	973	1/2	75	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	1,861	3/4	1,412	3/4	963	3/4	66	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	6	6	6	6	1,852	6	1,403	6	954	6	56	6	6	6	6	6	6	6	6
1/4	1/4	1/4	1/4	1/4	1,842	1/4	1,394	1/4	945	1/4	47	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1,833	1/2	1,384	1/2	935	1/2	38	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	1,824	3/4	1,375	3/4	926	3/4	28	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	7	7	7	7	1,814	7	1,365	7	917	7	19	7	7	7	7	7	7	7	7
1/4	1/4	1/4	1/4	1/4	1,805	1/4	1,356	1/4	907	1/4	9	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1,796	1/2	1,347	1/2	898	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	1,786	3/4	1,337	3/4	889	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	8	8	8	8	1,777	8	1,328	8	879	8	0	8	8	8	8	8	8	8	8
1/4	1/4	1/4	1/4	1/4	1,768	1/4	1,319	1/4	870	1/4	0	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1,758	1/2	1,309	1/2	861	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	1,749	3/4	1,300	3/4	851	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	9	9	9	9	1,739	9	1,291	9	842	9	0	9	9	9	9	9	9	9	9
1/4	1/4	1/4	1/4	1/4	1,730	1/4	1,281	1/4	832	1/4	0	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1,721	1/2	1,272	1/2	823	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	1,711	3/4	1,263	3/4	814	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	10	10	10	10	1,702	10	1,253	10	804	10	0	10	10	10	10	10	10	10	10
1/4	1/4	1/4	1/4	1/4	1,693	1/4	1,244	1/4	795	1/4	0	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1,683	1/2	1,235	1/2	786	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	1,674	3/4	1,225	3/4	776	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	11	11	11	11	1,665	11	1,216	11	767	11	0	11	11	11	11	11	11	11	11
1/4	1/4	1/4	1/4	1/4	1,655	1/4	1,206	1/4	758	1/4	0	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1,646	1/2	1,197	1/2	748	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	1,637	3/4	1,188	3/4	739	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

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 AT GAUGE POINT.
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.

STRAPPED: 08/26/2013 SW
CALCULATED: 08/27/2013 CL
VERIFIED: 10/25/2023 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2023

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 3103"

FWD SLOP TANK ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 5'-07 1/2"

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	1,627	0	1,178	0	730	0	281	0	0	0	0	0	0	0	0
1/4	1/4	1/4	1,618	1/4	1,169	1/4	720	1/4	271	1/4	0	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1,609	1/2	1,160	1/2	711	1/2	262	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	1,599	3/4	1,150	3/4	702	3/4	253	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1	1	1,590	1	1,141	1	692	1	243	1	1	1	1	1	1	1	1	1	1
1/4	1/4	1/4	1,581	1/4	1,132	1/4	683	1/4	234	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	2,020	1/2	1,571	1/2	1,122	1/2	673	1/2	225	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	2,011	3/4	1,562	3/4	1,113	3/4	664	3/4	215	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	2	2	2,001	2	1,552	2	1,104	2	655	2	206	2	2	2	2	2	2	2	2
1/4	1/4	1/4	1,992	1/4	1,543	1/4	1,094	1/4	645	1/4	197	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1,983	1/2	1,534	1/2	1,085	1/2	636	1/2	187	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	1,973	3/4	1,524	3/4	1,076	3/4	627	3/4	178	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	3	3	1,964	3	1,515	3	1,066	3	617	3	169	3	3	3	3	3	3	3	3
1/4	1/4	1/4	1,955	1/4	1,506	1/4	1,057	1/4	608	1/4	159	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1,945	1/2	1,496	1/2	1,048	1/2	599	1/2	150	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	1,936	3/4	1,487	3/4	1,038	3/4	589	3/4	140	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	4	4	1,926	4	1,478	4	1,029	4	580	4	131	4	4	4	4	4	4	4	4
1/4	1/4	1/4	1,917	1/4	1,468	1/4	1,019	1/4	571	1/4	122	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1,908	1/2	1,459	1/2	1,010	1/2	561	1/2	112	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	1,898	3/4	1,450	3/4	1,001	3/4	552	3/4	103	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	5	5	1,889	5	1,440	5	991	5	543	5	94	5	5	5	5	5	5	5	5
1/4	1/4	1/4	1,880	1/4	1,431	1/4	982	1/4	533	1/4	84	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1,870	1/2	1,422	1/2	973	1/2	524	1/2	75	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	1,861	3/4	1,412	3/4	963	3/4	515	3/4	66	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	6	6	1,852	6	1,403	6	954	6	505	6	56	6	6	6	6	6	6	6	6
1/4	1/4	1/4	1,842	1/4	1,394	1/4	945	1/4	496	1/4	47	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1,833	1/2	1,384	1/2	935	1/2	486	1/2	38	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	1,824	3/4	1,375	3/4	926	3/4	477	3/4	28	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	7	7	1,814	7	1,365	7	917	7	468	7	19	7	7	7	7	7	7	7	7
1/4	1/4	1/4	1,805	1/4	1,356	1/4	907	1/4	458	1/4	9	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1,796	1/2	1,347	1/2	898	1/2	449	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	1,786	3/4	1,337	3/4	889	3/4	440	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	8	8	1,777	8	1,328	8	879	8	430	8	0	8	8	8	8	8	8	8	8
1/4	1/4	1/4	1,768	1/4	1,319	1/4	870	1/4	421	1/4	0	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1,758	1/2	1,309	1/2	861	1/2	412	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	1,749	3/4	1,300	3/4	851	3/4	402	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	9	9	1,739	9	1,291	9	842	9	393	9	0	9	9	9	9	9	9	9	9
1/4	1/4	1/4	1,730	1/4	1,281	1/4	832	1/4	384	1/4	0	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1,721	1/2	1,272	1/2	823	1/2	374	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	1,711	3/4	1,263	3/4	814	3/4	365	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	10	10	1,702	10	1,253	10	804	10	356	10	0	10	10	10	10	10	10	10	10
1/4	1/4	1/4	1,693	1/4	1,244	1/4	795	1/4	346	1/4	0	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1,683	1/2	1,235	1/2	786	1/2	337	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	1,674	3/4	1,225	3/4	776	3/4	328	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	11	11	1,665	11	1,216	11	767	11	318	11	0	11	11	11	11	11	11	11	11
1/4	1/4	1/4	1,655	1/4	1,206	1/4	758	1/4	309	1/4	0	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1,646	1/2	1,197	1/2	748	1/2	299	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	1,637	3/4	1,188	3/4	739	3/4	290	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

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 AT GAUGE POINT.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.

STRAPPED: 08/26/2013 SW
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BARGE "HTCO 3103"

FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 3'-11"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	120	0	298	0	456	0		0		0		0		0		0	
1/4	1	1/4	123	1/4	302	1/4	459	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2	1/2	127	1/2	305	1/2	461	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3	3/4	130	3/4	309	3/4	463	3/4		3/4		3/4		3/4		3/4		3/4	
1	3	1	134	1	313	1	466	1		1		1		1		1		1	
1/4	5	1/4	137	1/4	316	1/4	468	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	6	1/2	141	1/2	320	1/2	470	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	8	3/4	144	3/4	324	3/4	472	3/4		3/4		3/4		3/4		3/4		3/4	
2	9	2	148	2	327	2	475	2		2		2		2		2		2	
1/4	11	1/4	152	1/4	331	1/4	477	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	13	1/2	155	1/2	335	1/2	478	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	15	3/4	159	3/4	338	3/4	480	3/4		3/4		3/4		3/4		3/4		3/4	
3	16	3	162	3	342	3	482	3		3		3		3		3		3	
1/4	19	1/4	166	1/4	346	1/4	484	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	21	1/2	170	1/2	349	1/2	485	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	23	3/4	173	3/4	353	3/4	487	3/4		3/4		3/4		3/4		3/4		3/4	
4	25	4	177	4	356	4	488	4		4		4		4		4		4	
1/4	27	1/4	181	1/4	360	1/4	489	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	30	1/2	185	1/2	363	1/2	490	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	32	3/4	188	3/4	367	3/4	491	3/4		3/4		3/4		3/4		3/4		3/4	
5	35	5	192	5	370	5	492	5		5		5		5		5		5	
1/4	37	1/4	196	1/4	374	1/4	493	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	40	1/2	200	1/2	377	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	42	3/4	203	3/4	381	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
6	45	6	207	6	384	6		6		6		6		6		6		6	
1/4	48	1/4	211	1/4	387	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	51	1/2	215	1/2	391	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	53	3/4	218	3/4	394	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7	56	7	222	7	397	7		7		7		7		7		7		7	
1/4	59	1/4	226	1/4	401	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	62	1/2	230	1/2	404	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	65	3/4	234	3/4	407	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8	68	8	237	8	410	8		8		8		8		8		8		8	
1/4	71	1/4	241	1/4	413	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	74	1/2	245	1/2	416	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	77	3/4	249	3/4	420	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	80	9	252	9	423	9		9		9		9		9		9		9	
1/4	83	1/4	256	1/4	426	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	87	1/2	260	1/2	429	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	90	3/4	264	3/4	432	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	93	10	268	10	434	10		10		10		10		10		10		10	
1/4	96	1/4	271	1/4	437	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	100	1/2	275	1/2	440	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	103	3/4	279	3/4	443	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	106	11	283	11	446	11		11		11		11		11		11		11	
1/4	110	1/4	287	1/4	448	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	113	1/2	290	1/2	451	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	116	3/4	294	3/4	454	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

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 AT GAUGE POINT.
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN AT 2" DIAMETER STANDPIPE.

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