



BARGE "HTCO 3133"

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	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-3/4	- 00-3/4	00-7/8	- 00-7/8	01-1/8	- 01-1/8
1 STBD	00-1/8	- 00-1/8	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-3/4	- 00-3/4	00-7/8	- 00-7/8	01-1/8	- 01-1/8
2 PORT	00-1/8	- 00-1/8	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-5/8	- 00-5/8	00-7/8	- 00-7/8	01-0/8	- 01-0/8
2 STBD	00-1/8	- 00-1/8	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-5/8	- 00-5/8	00-7/8	- 00-7/8	01-0/8	- 01-0/8
3 PORT	00-1/8	- 00-1/8	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-5/8	- 00-5/8	00-3/4	- 00-3/4	01-0/8	- 01-0/8
3 STBD	00-1/8	- 00-1/8	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-5/8	- 00-5/8	00-3/4	- 00-3/4	01-0/8	- 01-0/8

(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 - 00-3/8"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 3'-11 5/8"

LENGTH BETWEEN DRAFT MARKS: 237'-09"

July 18, 2019

**PRECISION MEASUREMENT
& ANALYSIS, INC.**

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HTCO 3133"

1 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	0	0	0	0	4,695.03	0	4,338.25	0	3,980.20	0	3,622.10	0	3,263.99	0	2,905.87
1/4		1/4		1/4		1/4		1/4	4,687.63	1/4	4,330.81	1/4	3,972.74	1/4	3,614.64	1/4	3,256.53	1/4	2,898.40
1/2		1/2		1/2		1/2		1/2	4,680.23	1/2	4,323.36	1/2	3,965.28	1/2	3,607.18	1/2	3,249.07	1/2	2,890.94
3/4		3/4		3/4		3/4		3/4	4,672.84	3/4	4,315.91	3/4	3,957.82	3/4	3,599.72	3/4	3,241.61	3/4	2,883.47
1	1	1	1	1	5,008.98	1	4,665.44	1	4,308.46	1	3,950.36	1	3,592.26	1	3,234.15	1	2,876.01		
1/4		1/4		1/4		1/4		1/4	4,658.04	1/4	4,301.00	1/4	3,942.90	1/4	3,584.80	1/4	3,226.69	1/4	2,868.55
1/2		1/2		1/2		1/2		1/2	4,998.44	1/2	4,650.62	1/2	4,293.54	1/2	3,935.44	1/2	3,577.33	1/2	2,861.08
3/4		3/4		3/4		3/4		3/4	4,992.63	3/4	4,643.20	3/4	4,286.08	3/4	3,927.98	3/4	3,569.87	3/4	2,853.62
2	2	2	2	2	4,986.83	2	4,635.78	2	4,278.62	2	3,920.52	2	3,562.41	2	3,204.31	2	2,846.15		
1/4		1/4		1/4		1/4		1/4	4,981.02	1/4	4,628.36	1/4	4,271.16	1/4	3,913.06	1/4	3,554.95	1/4	2,838.69
1/2		1/2		1/2		1/2		1/2	4,974.22	1/2	4,620.92	1/2	4,263.70	1/2	3,905.60	1/2	3,547.49	1/2	2,831.22
3/4		3/4		3/4		3/4		3/4	4,967.42	3/4	4,613.48	3/4	4,256.24	3/4	3,898.14	3/4	3,540.03	3/4	2,823.76
3	3	3	3	3	4,960.61	3	4,606.05	3	4,248.78	3	3,890.68	3	3,532.57	3	3,174.47	3	2,816.29		
1/4		1/4		1/4		1/4		1/4	4,953.81	1/4	4,598.61	1/4	4,241.32	1/4	3,883.22	1/4	3,525.11	1/4	2,808.83
1/2		1/2		1/2		1/2		1/2	4,946.47	1/2	4,591.17	1/2	4,233.86	1/2	3,875.75	1/2	3,517.65	1/2	2,801.37
3/4		3/4		3/4		3/4		3/4	4,939.13	3/4	4,583.73	3/4	4,226.40	3/4	3,868.29	3/4	3,510.19	3/4	2,793.90
4	4	4	4	4	4,931.80	4	4,576.29	4	4,218.94	4	3,860.83	4	3,502.73	4	3,144.63	4	2,786.44		
1/4		1/4		1/4		1/4		1/4	4,924.46	1/4	4,568.85	1/4	4,211.48	1/4	3,853.37	1/4	3,495.27	1/4	2,778.97
1/2		1/2		1/2		1/2		1/2	4,917.06	1/2	4,561.41	1/2	4,204.02	1/2	3,845.91	1/2	3,487.81	1/2	2,771.51
3/4		3/4		3/4		3/4		3/4	4,909.65	3/4	4,553.97	3/4	4,196.56	3/4	3,838.45	3/4	3,480.35	3/4	2,764.04
5	5	5	5	5	4,902.25	5	4,546.54	5	4,189.10	5	3,830.99	5	3,472.89	5	3,114.78	5	2,756.58		
1/4		1/4		1/4		1/4		1/4	4,894.85	1/4	4,539.10	1/4	4,181.64	1/4	3,823.53	1/4	3,465.43	1/4	2,749.11
1/2		1/2		1/2		1/2		1/2	4,887.44	1/2	4,531.66	1/2	4,174.17	1/2	3,816.07	1/2	3,457.97	1/2	2,741.65
3/4		3/4		3/4		3/4		3/4	4,880.04	3/4	4,524.22	3/4	4,166.71	3/4	3,808.61	3/4	3,450.51	3/4	2,734.18
6	6	6	6	6	4,872.64	6	4,516.78	6	4,159.25	6	3,801.15	6	3,443.05	6	3,084.94	6	2,726.72		
1/4		1/4		1/4		1/4		1/4	4,865.23	1/4	4,509.34	1/4	4,151.79	1/4	3,793.69	1/4	3,435.59	1/4	2,719.26
1/2		1/2		1/2		1/2		1/2	4,857.83	1/2	4,501.90	1/2	4,144.33	1/2	3,786.23	1/2	3,428.12	1/2	2,711.79
3/4		3/4		3/4		3/4		3/4	4,850.43	3/4	4,494.46	3/4	4,136.87	3/4	3,778.77	3/4	3,420.66	3/4	2,704.33
7	7	7	7	7	4,843.03	7	4,487.03	7	4,129.41	7	3,771.31	7	3,413.20	7	3,055.10	7	2,696.86		
1/4		1/4		1/4		1/4		1/4	4,835.62	1/4	4,479.59	1/4	4,121.95	1/4	3,763.85	1/4	3,405.74	1/4	2,689.40
1/2		1/2		1/2		1/2		1/2	4,828.22	1/2	4,472.15	1/2	4,114.49	1/2	3,756.39	1/2	3,398.28	1/2	2,681.93
3/4		3/4		3/4		3/4		3/4	4,820.82	3/4	4,464.71	3/4	4,107.03	3/4	3,748.93	3/4	3,390.82	3/4	2,674.47
8	8	8	8	8	4,813.42	8	4,457.27	8	4,099.57	8	3,741.47	8	3,383.36	8	3,025.26	8	2,667.00		
1/4		1/4		1/4		1/4		1/4	4,806.02	1/4	4,449.83	1/4	4,092.11	1/4	3,734.01	1/4	3,375.90	1/4	2,659.54
1/2		1/2		1/2		1/2		1/2	4,798.62	1/2	4,442.39	1/2	4,084.65	1/2	3,726.54	1/2	3,368.44	1/2	2,652.08
3/4		3/4		3/4		3/4		3/4	4,791.22	3/4	4,434.95	3/4	4,077.19	3/4	3,719.08	3/4	3,360.98	3/4	2,644.61
9	9	9	9	9	4,783.82	9	4,427.51	9	4,069.73	9	3,711.62	9	3,353.52	9	2,995.42	9	2,637.15		
1/4		1/4		1/4		1/4		1/4	4,776.42	1/4	4,420.08	1/4	4,062.27	1/4	3,704.16	1/4	3,346.06	1/4	2,629.68
1/2		1/2		1/2		1/2		1/2	4,769.02	1/2	4,412.64	1/2	4,054.81	1/2	3,696.70	1/2	3,338.60	1/2	2,622.22
3/4		3/4		3/4		3/4		3/4	4,761.62	3/4	4,405.20	3/4	4,047.35	3/4	3,689.24	3/4	3,331.14	3/4	2,614.75
10	10	10	10	10	4,754.22	10	4,397.76	10	4,039.89	10	3,681.78	10	3,323.68	10	2,965.57	10	2,607.29		
1/4		1/4		1/4		1/4		1/4	4,746.83	1/4	4,390.32	1/4	4,032.43	1/4	3,674.32	1/4	3,316.22	1/4	2,599.82
1/2		1/2		1/2		1/2		1/2	4,739.43	1/2	4,382.88	1/2	4,024.96	1/2	3,666.86	1/2	3,308.76	1/2	2,592.36
3/4		3/4		3/4		3/4		3/4	4,732.03	3/4	4,375.44	3/4	4,017.50	3/4	3,659.40	3/4	3,301.30	3/4	2,584.89
11	11	11	11	11	4,724.63	11	4,368.00	11	4,010.04	11	3,651.94	11	3,293.84	11	2,935.73	11	2,577.43		
1/4		1/4		1/4		1/4		1/4	4,717.23	1/4	4,360.57	1/4	4,002.58	1/4	3,644.48	1/4	3,286.38	1/4	2,569.97
1/2		1/2		1/2		1/2		1/2	4,709.83	1/2	4,353.13	1/2	3,995.12	1/2	3,637.02	1/2	3,278.91	1/2	2,562.50
3/4		3/4		3/4		3/4		3/4	4,702.43	3/4	4,345.69	3/4	3,987.66	3/4	3,629.56	3/4	3,271.45	3/4	2,555.04

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" DEVICE
 GAUGE POINT: (HERMETIC) LOCATED 12'-07" OFF CENTERLINE AND 46'-06" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
 & ANALYSIS, INC.
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BARGE "HTCO 3133"

1 PORT ULLAGE TABLE HERMETIC

GAUGE HEIGHT 17'-03 1/2"

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	2,547.57	0	2,189.28	0	1,830.98	0	1,472.68	0	1,114.43	0	758.28	0	404.62	0	89.51	0			
1/4	2,540.11	1/4	2,181.81	1/4	1,823.52	1/4	1,465.22	1/4	1,106.98	1/4	750.84	1/4	397.56	1/4	83.40	1/4			
1/2	2,532.64	1/2	2,174.35	1/2	1,816.05	1/2	1,457.76	1/2	1,099.55	1/2	743.38	1/2	390.59	1/2	77.37	1/2			
3/4	2,525.18	3/4	2,166.88	3/4	1,808.59	3/4	1,450.29	3/4	1,092.11	3/4	735.91	3/4	383.61	3/4	71.34	3/4			
1	2,517.71	1	2,159.42	1	1,801.12	1	1,442.83	1	1,084.68	1	728.45	1	376.64	1	65.31	1			
1/4	2,510.25	1/4	2,151.95	1/4	1,793.66	1/4	1,435.36	1/4	1,077.24	1/4	720.98	1/4	369.66	1/4	59.28	1/4			
1/2	2,502.79	1/2	2,144.49	1/2	1,786.19	1/2	1,427.90	1/2	1,069.81	1/2	713.52	1/2	362.76	1/2	53.80	1/2			
3/4	2,495.32	3/4	2,137.02	3/4	1,778.73	3/4	1,420.43	3/4	1,062.39	3/4	706.06	3/4	355.86	3/4	48.31	3/4			
2	2,487.86	2	2,129.56	2	1,771.26	2	1,412.97	2	1,054.96	2	698.59	2	348.96	2	42.83	2			
1/4	2,480.39	1/4	2,122.10	1/4	1,763.80	1/4	1,405.50	1/4	1,047.53	1/4	691.13	1/4	342.06	1/4	37.35	1/4			
1/2	2,472.93	1/2	2,114.63	1/2	1,756.34	1/2	1,398.04	1/2	1,040.11	1/2	683.66	1/2	335.24	1/2	33.35	1/2			
3/4	2,465.46	3/4	2,107.17	3/4	1,748.87	3/4	1,390.57	3/4	1,032.69	3/4	676.20	3/4	328.41	3/4	29.35	3/4			
3	2,458.00	3	2,099.70	3	1,741.41	3	1,383.11	3	1,025.27	3	668.73	3	321.59	3	25.35	3			
1/4	2,450.53	1/4	2,092.24	1/4	1,733.94	1/4	1,375.65	1/4	1,017.85	1/4	661.27	1/4	314.76	1/4	21.35	1/4			
1/2	2,443.07	1/2	2,084.77	1/2	1,726.48	1/2	1,368.18	1/2	1,010.43	1/2	653.81	1/2	308.01	1/2	18.44	1/2			
3/4	2,435.60	3/4	2,077.31	3/4	1,719.01	3/4	1,360.72	3/4	1,003.01	3/4	646.34	3/4	301.27	3/4		3/4			
4	2,428.14	4	2,069.84	4	1,711.55	4	1,353.25	4	995.60	4	638.88	4	294.52	4		4			
1/4	2,420.68	1/4	2,062.38	1/4	1,704.08	1/4	1,345.79	1/4	988.18	1/4	631.41	1/4	287.78	1/4		1/4			
1/2	2,413.21	1/2	2,054.92	1/2	1,696.62	1/2	1,338.32	1/2	980.77	1/2	623.95	1/2	281.11	1/2		1/2			
3/4	2,405.75	3/4	2,047.45	3/4	1,689.15	3/4	1,330.86	3/4	973.35	3/4	616.48	3/4	274.45	3/4		3/4			
5	2,398.28	5	2,039.99	5	1,681.69	5	1,323.39	5	965.94	5	609.02	5	267.78	5		5			
1/4	2,390.82	1/4	2,032.52	1/4	1,674.23	1/4	1,315.93	1/4	958.52	1/4	601.56	1/4	261.12	1/4		1/4			
1/2	2,383.35	1/2	2,025.06	1/2	1,666.76	1/2	1,308.47	1/2	951.11	1/2	594.09	1/2	254.53	1/2		1/2			
3/4	2,375.89	3/4	2,017.59	3/4	1,659.30	3/4	1,301.00	3/4	943.70	3/4	586.63	3/4	247.95	3/4		3/4			
6	2,368.42	6	2,010.13	6	1,651.83	6	1,293.54	6	936.28	6	579.16	6	241.36	6		6			
1/4	2,360.96	1/4	2,002.66	1/4	1,644.37	1/4	1,286.07	1/4	928.87	1/4	571.70	1/4	234.78	1/4		1/4			
1/2	2,353.50	1/2	1,995.20	1/2	1,636.90	1/2	1,278.61	1/2	921.46	1/2	564.26	1/2	228.28	1/2		1/2			
3/4	2,346.03	3/4	1,987.73	3/4	1,629.44	3/4	1,271.14	3/4	914.04	3/4	556.81	3/4	221.77	3/4		3/4			
7	2,338.57	7	1,980.27	7	1,621.97	7	1,263.68	7	906.63	7	549.37	7	215.27	7		7			
1/4	2,331.10	1/4	1,972.81	1/4	1,614.51	1/4	1,256.21	1/4	899.22	1/4	541.93	1/4	208.77	1/4		1/4			
1/2	2,323.64	1/2	1,965.34	1/2	1,607.05	1/2	1,248.75	1/2	891.80	1/2	534.55	1/2	202.35	1/2		1/2			
3/4	2,316.17	3/4	1,957.88	3/4	1,599.58	3/4	1,241.28	3/4	884.39	3/4	527.17	3/4	195.93	3/4		3/4			
8	2,308.71	8	1,950.41	8	1,592.12	8	1,233.82	8	876.97	8	519.79	8	189.51	8		8			
1/4	2,301.24	1/4	1,942.95	1/4	1,584.65	1/4	1,226.36	1/4	869.56	1/4	512.41	1/4	183.09	1/4		1/4			
1/2	2,293.78	1/2	1,935.48	1/2	1,577.19	1/2	1,218.89	1/2	862.15	1/2	505.11	1/2	176.74	1/2		1/2			
3/4	2,286.31	3/4	1,928.02	3/4	1,569.72	3/4	1,211.43	3/4	854.73	3/4	497.81	3/4	170.40	3/4		3/4			
9	2,278.85	9	1,920.55	9	1,562.26	9	1,203.96	9	847.32	9	490.51	9	164.05	9		9			
1/4	2,271.39	1/4	1,913.09	1/4	1,554.79	1/4	1,196.50	1/4	839.91	1/4	483.21	1/4	157.70	1/4		1/4			
1/2	2,263.92	1/2	1,905.63	1/2	1,547.33	1/2	1,189.03	1/2	832.49	1/2	475.99	1/2	151.43	1/2		1/2			
3/4	2,256.46	3/4	1,898.16	3/4	1,539.86	3/4	1,181.57	3/4	825.08	3/4	468.77	3/4	145.16	3/4		3/4			
10	2,248.99	10	1,890.70	10	1,532.40	10	1,174.10	10	817.67	10	461.55	10	138.89	10		10			
1/4	2,241.53	1/4	1,883.23	1/4	1,524.94	1/4	1,166.64	1/4	810.25	1/4	454.34	1/4	132.61	1/4		1/4			
1/2	2,234.06	1/2	1,875.77	1/2	1,517.47	1/2	1,159.18	1/2	802.84	1/2	447.20	1/2	126.42	1/2		1/2			
3/4	2,226.60	3/4	1,868.30	3/4	1,510.01	3/4	1,151.71	3/4	795.43	3/4	440.06	3/4	120.23	3/4		3/4			
11	2,219.13	11	1,860.84	11	1,502.54	11	1,144.25	11	788.01	11	432.92	11	114.04	11		11			
1/4	2,211.67	1/4	1,853.37	1/4	1,495.08	1/4	1,136.78	1/4	780.60	1/4	425.78	1/4	107.85	1/4		1/4			
1/2	2,204.21	1/2	1,845.91	1/2	1,487.61	1/2	1,129.33	1/2	773.16	1/2	418.73	1/2	101.73	1/2		1/2			
3/4	2,196.74	3/4	1,838.44	3/4	1,480.15	3/4	1,121.88	3/4	765.72	3/4	411.67	3/4	95.62	3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/02/2014 CL
RECALCULATED: 07/18/2019 CL
REPRINTED: 07/18/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2019

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



BARGE "HTCO 3133"

1 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	4,696.70	0	4,339.92	0	3,981.89	0	3,623.79	0	3,265.69	0	2,907.59		
1/4		1/4		1/4		1/4	4,689.31	1/4	4,332.49	1/4	3,974.43	1/4	3,616.33	1/4	3,258.23	1/4	2,900.13		
1/2		1/2		1/2		1/2	4,681.91	1/2	4,325.04	1/2	3,966.96	1/2	3,608.87	1/2	3,250.77	1/2	2,892.67		
3/4		3/4		3/4		3/4	4,674.51	3/4	4,317.58	3/4	3,959.50	3/4	3,601.41	3/4	3,243.31	3/4	2,885.20		
1		1		1		1	5,010.63	1	4,667.11	1	4,310.13	1	3,952.04	1	3,593.94	1	3,235.85	1	2,877.74
1/4		1/4		1/4		1/4	5,005.89	1/4	4,659.71	1/4	4,302.68	1/4	3,944.58	1/4	3,586.48	1/4	3,228.39	1/4	2,870.27
1/2		1/2		1/2		1/2	5,000.09	1/2	4,652.29	1/2	4,295.22	1/2	3,937.12	1/2	3,579.02	1/2	3,220.92	1/2	2,862.81
3/4		3/4		3/4		3/4	4,994.29	3/4	4,644.87	3/4	4,287.76	3/4	3,929.66	3/4	3,571.56	3/4	3,213.46	3/4	2,855.34
2		2		2		2	4,988.48	2	4,637.45	2	4,280.30	2	3,922.20	2	3,564.10	2	3,206.00	2	2,847.88
1/4		1/4		1/4		1/4	4,982.68	1/4	4,630.03	1/4	4,272.84	1/4	3,914.74	1/4	3,556.64	1/4	3,198.54	1/4	2,840.42
1/2		1/2		1/2		1/2	4,975.88	1/2	4,622.60	1/2	4,265.38	1/2	3,907.28	1/2	3,549.18	1/2	3,191.08	1/2	2,832.95
3/4		3/4		3/4		3/4	4,969.07	3/4	4,615.16	3/4	4,257.92	3/4	3,899.82	3/4	3,541.72	3/4	3,183.62	3/4	2,825.49
3		3		3		3	4,962.27	3	4,607.72	3	4,250.46	3	3,892.36	3	3,534.26	3	3,176.16	3	2,818.02
1/4		1/4		1/4		1/4	4,955.47	1/4	4,600.28	1/4	4,243.00	1/4	3,884.90	1/4	3,526.80	1/4	3,168.70	1/4	2,810.56
1/2		1/2		1/2		1/2	4,948.13	1/2	4,592.84	1/2	4,235.54	1/2	3,877.44	1/2	3,519.34	1/2	3,161.24	1/2	2,803.09
3/4		3/4		3/4		3/4	4,940.80	3/4	4,585.40	3/4	4,228.08	3/4	3,869.98	3/4	3,511.88	3/4	3,153.78	3/4	2,795.63
4		4		4		4	4,933.46	4	4,577.96	4	4,220.62	4	3,862.52	4	3,504.42	4	3,146.32	4	2,788.16
1/4		1/4		1/4		1/4	4,926.13	1/4	4,570.52	1/4	4,213.16	1/4	3,855.06	1/4	3,496.96	1/4	3,138.86	1/4	2,780.70
1/2		1/2		1/2		1/2	4,918.73	1/2	4,563.09	1/2	4,205.70	1/2	3,847.60	1/2	3,489.50	1/2	3,131.40	1/2	2,773.24
3/4		3/4		3/4		3/4	4,911.32	3/4	4,555.65	3/4	4,198.24	3/4	3,840.14	3/4	3,482.04	3/4	3,123.94	3/4	2,765.77
5		5		5		5	4,903.92	5	4,548.21	5	4,190.78	5	3,832.68	5	3,474.58	5	3,116.48	5	2,758.31
1/4		1/4		1/4		1/4	4,896.52	1/4	4,540.77	1/4	4,183.32	1/4	3,825.22	1/4	3,467.12	1/4	3,109.02	1/4	2,750.84
1/2		1/2		1/2		1/2	4,889.11	1/2	4,533.33	1/2	4,175.86	1/2	3,817.76	1/2	3,459.66	1/2	3,101.56	1/2	2,743.38
3/4		3/4		3/4		3/4	4,881.71	3/4	4,525.89	3/4	4,168.40	3/4	3,810.30	3/4	3,452.20	3/4	3,094.10	3/4	2,735.91
6		6		6		6	4,874.31	6	4,518.45	6	4,160.94	6	3,802.84	6	3,444.74	6	3,086.64	6	2,728.45
1/4		1/4		1/4		1/4	4,866.90	1/4	4,511.01	1/4	4,153.47	1/4	3,795.38	1/4	3,437.28	1/4	3,079.18	1/4	2,720.98
1/2		1/2		1/2		1/2	4,859.50	1/2	4,503.58	1/2	4,146.01	1/2	3,787.92	1/2	3,429.82	1/2	3,071.72	1/2	2,713.52
3/4		3/4		3/4		3/4	4,852.10	3/4	4,496.14	3/4	4,138.55	3/4	3,780.45	3/4	3,422.36	3/4	3,064.26	3/4	2,706.05
7		7		7		7	4,844.70	7	4,488.70	7	4,131.09	7	3,772.99	7	3,414.90	7	3,056.80	7	2,698.59
1/4		1/4		1/4		1/4	4,837.29	1/4	4,481.26	1/4	4,123.63	1/4	3,765.53	1/4	3,407.43	1/4	3,049.34	1/4	2,691.13
1/2		1/2		1/2		1/2	4,829.89	1/2	4,473.82	1/2	4,116.17	1/2	3,758.07	1/2	3,399.97	1/2	3,041.88	1/2	2,683.66
3/4		3/4		3/4		3/4	4,822.49	3/4	4,466.38	3/4	4,108.71	3/4	3,750.61	3/4	3,392.51	3/4	3,034.41	3/4	2,676.20
8		8		8		8	4,815.09	8	4,458.94	8	4,101.25	8	3,743.15	8	3,385.05	8	3,026.95	8	2,668.73
1/4		1/4		1/4		1/4	4,807.69	1/4	4,451.51	1/4	4,093.79	1/4	3,735.69	1/4	3,377.59	1/4	3,019.49	1/4	2,661.27
1/2		1/2		1/2		1/2	4,800.29	1/2	4,444.07	1/2	4,086.33	1/2	3,728.23	1/2	3,370.13	1/2	3,012.03	1/2	2,653.80
3/4		3/4		3/4		3/4	4,792.89	3/4	4,436.63	3/4	4,078.87	3/4	3,720.77	3/4	3,362.67	3/4	3,004.57	3/4	2,646.34
9		9		9		9	4,785.49	9	4,429.19	9	4,071.41	9	3,713.31	9	3,355.21	9	2,997.11	9	2,638.87
1/4		1/4		1/4		1/4	4,778.09	1/4	4,421.75	1/4	4,063.95	1/4	3,705.85	1/4	3,347.75	1/4	2,989.65	1/4	2,631.41
1/2		1/2		1/2		1/2	4,770.69	1/2	4,414.31	1/2	4,056.49	1/2	3,698.39	1/2	3,340.29	1/2	2,982.19	1/2	2,623.95
3/4		3/4		3/4		3/4	4,763.30	3/4	4,406.87	3/4	4,049.03	3/4	3,690.93	3/4	3,332.83	3/4	2,974.73	3/4	2,616.48
10		10		10		10	4,755.90	10	4,399.43	10	4,041.57	10	3,683.47	10	3,325.37	10	2,967.27	10	2,609.02
1/4		1/4		1/4		1/4	4,748.50	1/4	4,392.00	1/4	4,034.11	1/4	3,676.01	1/4	3,317.91	1/4	2,959.81	1/4	2,601.55
1/2		1/2		1/2		1/2	4,741.10	1/2	4,384.56	1/2	4,026.65	1/2	3,668.55	1/2	3,310.45	1/2	2,952.35	1/2	2,594.09
3/4		3/4		3/4		3/4	4,733.70	3/4	4,377.12	3/4	4,019.19	3/4	3,661.09	3/4	3,302.99	3/4	2,944.89	3/4	2,586.62
11		11		11		11	4,726.30	11	4,369.68	11	4,011.73	11	3,653.63	11	3,295.53	11	2,937.43	11	2,579.16
1/4		1/4		1/4		1/4	4,718.90	1/4	4,362.24	1/4	4,004.27	1/4	3,646.17	1/4	3,288.07	1/4	2,929.97	1/4	2,571.69
1/2		1/2		1/2		1/2	4,711.50	1/2	4,354.80	1/2	3,996.81	1/2	3,638.71	1/2	3,280.61	1/2	2,922.51	1/2	2,564.23
3/4		3/4		3/4		3/4	4,704.10	3/4	4,347.36	3/4	3,989.35	3/4	3,631.25	3/4	3,273.15	3/4	2,915.05	3/4	2,556.76

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" DEVICE
 GAUGE POINT: (HERMETIC) LOCATED 12'-07" OFF CENTERLINE AND 46'-06" FORWARD OF AFT BULKHEAD

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



BARGE "HTCO 3133"

1 STBD

ULLAGE TABLE
HERMETIC

GAUGE HEIGHT 17'-03 1/2"

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	2,549.30	0	2,191.00	0	1,832.71	0	1,474.41	0	1,116.12	0	758.31	0	404.69	0	89.54	0		0	
1/4	2,541.84	1/4	2,183.54	1/4	1,825.24	1/4	1,466.95	1/4	1,108.65	1/4	750.86	1/4	397.63	1/4	83.42	1/4		1/4	
1/2	2,534.37	1/2	2,176.08	1/2	1,817.78	1/2	1,459.48	1/2	1,101.19	1/2	743.39	1/2	390.66	1/2	77.39	1/2		1/2	
3/4	2,526.91	3/4	2,168.61	3/4	1,810.31	3/4	1,452.02	3/4	1,093.72	3/4	735.93	3/4	383.68	3/4	71.36	3/4		3/4	
1	2,519.44	1	2,161.15	1	1,802.85	1	1,444.55	1	1,086.26	1	728.46	1	376.71	1	65.33	1		1	
1/4	2,511.98	1/4	2,153.68	1/4	1,795.39	1/4	1,437.09	1/4	1,078.79	1/4	721.00	1/4	369.73	1/4	59.30	1/4		1/4	
1/2	2,504.51	1/2	2,146.22	1/2	1,787.92	1/2	1,429.63	1/2	1,071.33	1/2	713.53	1/2	362.83	1/2	53.81	1/2		1/2	
3/4	2,497.05	3/4	2,138.75	3/4	1,780.46	3/4	1,422.16	3/4	1,063.87	3/4	706.07	3/4	355.93	3/4	48.33	3/4		3/4	
2	2,489.58	2	2,131.29	2	1,772.99	2	1,414.70	2	1,056.41	2	698.61	2	349.03	2	42.84	2		2	
1/4	2,482.12	1/4	2,123.82	1/4	1,765.53	1/4	1,407.23	1/4	1,048.95	1/4	691.14	1/4	342.13	1/4	37.36	1/4		1/4	
1/2	2,474.66	1/2	2,116.36	1/2	1,758.06	1/2	1,399.77	1/2	1,041.49	1/2	683.68	1/2	335.30	1/2	33.36	1/2		1/2	
3/4	2,467.19	3/4	2,108.89	3/4	1,750.60	3/4	1,392.30	3/4	1,034.03	3/4	676.21	3/4	328.48	3/4	29.36	3/4		3/4	
3	2,459.73	3	2,101.43	3	1,743.13	3	1,384.84	3	1,026.58	3	668.75	3	321.65	3	25.35	3		3	
1/4	2,452.26	1/4	2,093.97	1/4	1,735.67	1/4	1,377.37	1/4	1,019.12	1/4	661.28	1/4	314.82	1/4	21.35	1/4		1/4	
1/2	2,444.80	1/2	2,086.50	1/2	1,728.21	1/2	1,369.91	1/2	1,011.66	1/2	653.82	1/2	308.08	1/2	18.44	1/2		1/2	
3/4	2,437.33	3/4	2,079.04	3/4	1,720.74	3/4	1,362.44	3/4	1,004.21	3/4	646.36	3/4	301.33	3/4		3/4		3/4	
4	2,429.87	4	2,071.57	4	1,713.28	4	1,354.98	4	996.76	4	638.89	4	294.58	4		4		4	
1/4	2,422.40	1/4	2,064.11	1/4	1,705.81	1/4	1,347.52	1/4	989.30	1/4	631.43	1/4	287.84	1/4		1/4		1/4	
1/2	2,414.94	1/2	2,056.64	1/2	1,698.35	1/2	1,340.05	1/2	981.85	1/2	623.96	1/2	281.17	1/2		1/2		1/2	
3/4	2,407.47	3/4	2,049.18	3/4	1,690.88	3/4	1,332.59	3/4	974.40	3/4	616.50	3/4	274.50	3/4		3/4		3/4	
5	2,400.01	5	2,041.71	5	1,683.42	5	1,325.12	5	966.95	5	609.03	5	267.84	5		5		5	
1/4	2,392.55	1/4	2,034.25	1/4	1,675.95	1/4	1,317.66	1/4	959.50	1/4	601.57	1/4	261.17	1/4		1/4		1/4	
1/2	2,385.08	1/2	2,026.79	1/2	1,668.49	1/2	1,310.19	1/2	952.05	1/2	594.11	1/2	254.59	1/2		1/2		1/2	
3/4	2,377.62	3/4	2,019.32	3/4	1,661.02	3/4	1,302.73	3/4	944.60	3/4	586.64	3/4	248.00	3/4		3/4		3/4	
6	2,370.15	6	2,011.86	6	1,653.56	6	1,295.26	6	937.15	6	579.18	6	241.42	6		6		6	
1/4	2,362.69	1/4	2,004.39	1/4	1,646.10	1/4	1,287.80	1/4	929.70	1/4	571.71	1/4	234.83	1/4		1/4		1/4	
1/2	2,355.22	1/2	1,996.93	1/2	1,638.63	1/2	1,280.34	1/2	922.25	1/2	564.27	1/2	228.33	1/2		1/2		1/2	
3/4	2,347.76	3/4	1,989.46	3/4	1,631.17	3/4	1,272.87	3/4	914.80	3/4	556.84	3/4	221.83	3/4		3/4		3/4	
7	2,340.29	7	1,982.00	7	1,623.70	7	1,265.41	7	907.34	7	549.40	7	215.32	7		7		7	
1/4	2,332.83	1/4	1,974.53	1/4	1,616.24	1/4	1,257.94	1/4	899.89	1/4	541.96	1/4	208.82	1/4		1/4		1/4	
1/2	2,325.37	1/2	1,967.07	1/2	1,608.77	1/2	1,250.48	1/2	892.44	1/2	534.59	1/2	202.40	1/2		1/2		1/2	
3/4	2,317.90	3/4	1,959.60	3/4	1,601.31	3/4	1,243.01	3/4	884.99	3/4	527.22	3/4	195.98	3/4		3/4		3/4	
8	2,310.44	8	1,952.14	8	1,593.84	8	1,235.55	8	877.54	8	519.84	8	189.55	8		8		8	
1/4	2,302.97	1/4	1,944.68	1/4	1,586.38	1/4	1,228.08	1/4	870.09	1/4	512.47	1/4	183.13	1/4		1/4		1/4	
1/2	2,295.51	1/2	1,937.21	1/2	1,578.92	1/2	1,220.62	1/2	862.64	1/2	505.17	1/2	176.79	1/2		1/2		1/2	
3/4	2,288.04	3/4	1,929.75	3/4	1,571.45	3/4	1,213.15	3/4	855.19	3/4	497.88	3/4	170.44	3/4		3/4		3/4	
9	2,280.58	9	1,922.28	9	1,563.99	9	1,205.69	9	847.74	9	490.58	9	164.09	9		9		9	
1/4	2,273.11	1/4	1,914.82	1/4	1,556.52	1/4	1,198.23	1/4	840.29	1/4	483.29	1/4	157.74	1/4		1/4		1/4	
1/2	2,265.65	1/2	1,907.35	1/2	1,549.06	1/2	1,190.76	1/2	832.84	1/2	476.07	1/2	151.47	1/2		1/2		1/2	
3/4	2,258.18	3/4	1,899.89	3/4	1,541.59	3/4	1,183.30	3/4	825.39	3/4	468.85	3/4	145.20	3/4		3/4		3/4	
10	2,250.72	10	1,892.42	10	1,534.13	10	1,175.83	10	817.94	10	461.63	10	138.92	10		10		10	
1/4	2,243.26	1/4	1,884.96	1/4	1,526.66	1/4	1,168.37	1/4	810.49	1/4	454.41	1/4	132.65	1/4		1/4		1/4	
1/2	2,235.79	1/2	1,877.50	1/2	1,519.20	1/2	1,160.90	1/2	803.04	1/2	447.27	1/2	126.46	1/2		1/2		1/2	
3/4	2,228.33	3/4	1,870.03	3/4	1,511.73	3/4	1,153.44	3/4	795.59	3/4	440.13	3/4	120.26	3/4		3/4		3/4	
11	2,220.86	11	1,862.57	11	1,504.27	11	1,145.97	11	788.13	11	433.00	11	114.07	11		11		11	
1/4	2,213.40	1/4	1,855.10	1/4	1,496.81	1/4	1,138.51	1/4	780.68	1/4	425.86	1/4	107.87	1/4		1/4		1/4	
1/2	2,205.93	1/2	1,847.64	1/2	1,489.34	1/2	1,131.05	1/2	773.23	1/2	418.80	1/2	101.76	1/2		1/2		1/2	
3/4	2,198.47	3/4	1,840.17	3/4	1,481.88	3/4	1,123.58	3/4	765.77	3/4	411.74	3/4	95.65	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/02/2014 CL
RECALCULATED: 07/18/2019 CL
REPRINTED: 07/18/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2019

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



BARGE "HTCO 3133"

2 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	0	0	0	0	0	0	4,770.77	0	4,413.28	0	4,054.51	0	3,695.67	0	3,336.83	0	2,977.98
1/4		1/4		1/4		1/4		1/4	4,763.35	1/4	4,405.83	1/4	4,047.04	1/4	3,688.19	1/4	3,329.35	1/4	2,970.50
1/2		1/2		1/2		1/2		1/2	4,755.94	1/2	4,398.37	1/2	4,039.56	1/2	3,680.72	1/2	3,321.87	1/2	2,963.03
3/4		3/4		3/4		3/4		3/4	4,748.52	3/4	4,390.90	3/4	4,032.08	3/4	3,673.24	3/4	3,314.40	3/4	2,955.55
1	1	1	1	1	1	1	1	1	4,741.11	1	4,383.44	1	4,024.61	1	3,665.77	1	3,306.92	1	2,948.07
1/4		1/4		1/4		1/4		1/4	5,077.96	1/4	4,733.69	1/4	4,375.97	1/4	4,017.13	1/4	3,658.29	1/4	3,299.45
1/2		1/2		1/2		1/2		1/2	5,073.21	1/2	4,726.28	1/2	4,368.50	1/2	4,009.66	1/2	3,650.81	1/2	3,291.97
3/4		3/4		3/4		3/4		3/4	5,067.39	3/4	4,718.85	3/4	4,361.02	3/4	4,002.18	3/4	3,643.34	3/4	3,284.49
2	2	2	2	2	2	2	2	2	5,061.58	2	4,711.41	2	4,353.55	2	3,994.70	2	3,635.86	2	3,277.02
1/4		1/4		1/4		1/4		1/4	5,055.76	1/4	4,703.98	1/4	4,346.07	1/4	3,987.23	1/4	3,628.39	1/4	3,269.54
1/2		1/2		1/2		1/2		1/2	5,049.95	1/2	4,696.54	1/2	4,338.60	1/2	3,979.75	1/2	3,620.91	1/2	3,262.07
3/4		3/4		3/4		3/4		3/4	5,043.13	3/4	4,689.09	3/4	4,331.12	3/4	3,972.28	3/4	3,613.43	3/4	3,254.59
3	3	3	3	3	3	3	3	3	5,036.31	3	4,681.63	3	4,323.64	3	3,964.80	3	3,605.96	3	3,247.11
1/4		1/4		1/4		1/4		1/4	5,029.49	1/4	4,674.18	1/4	4,316.17	1/4	3,957.33	1/4	3,598.48	1/4	3,239.64
1/2		1/2		1/2		1/2		1/2	5,022.67	1/2	4,666.73	1/2	4,308.69	1/2	3,949.85	1/2	3,591.01	1/2	3,232.16
3/4		3/4		3/4		3/4		3/4	5,015.32	3/4	4,659.27	3/4	4,301.22	3/4	3,942.37	3/4	3,583.53	3/4	3,224.69
4	4	4	4	4	4	4	4	4	5,007.97	4	4,651.82	4	4,293.74	4	3,934.90	4	3,576.05	4	3,217.21
1/4		1/4		1/4		1/4		1/4	5,000.61	1/4	4,644.36	1/4	4,286.26	1/4	3,927.42	1/4	3,568.58	1/4	3,209.74
1/2		1/2		1/2		1/2		1/2	4,993.26	1/2	4,636.91	1/2	4,278.79	1/2	3,919.95	1/2	3,561.10	1/2	3,202.26
3/4		3/4		3/4		3/4		3/4	4,985.84	3/4	4,629.45	3/4	4,271.31	3/4	3,912.47	3/4	3,553.63	3/4	3,194.78
5	5	5	5	5	5	5	5	5	4,978.42	5	4,622.00	5	4,263.84	5	3,904.99	5	3,546.15	5	3,187.31
1/4		1/4		1/4		1/4		1/4	4,971.01	1/4	4,614.55	1/4	4,256.36	1/4	3,897.52	1/4	3,538.67	1/4	3,179.83
1/2		1/2		1/2		1/2		1/2	4,963.59	1/2	4,607.09	1/2	4,248.89	1/2	3,890.04	1/2	3,531.20	1/2	3,172.36
3/4		3/4		3/4		3/4		3/4	4,956.17	3/4	4,599.64	3/4	4,241.41	3/4	3,882.57	3/4	3,523.72	3/4	3,164.88
6	6	6	6	6	6	6	6	6	4,948.75	6	4,592.18	6	4,233.93	6	3,875.09	6	3,516.25	6	3,157.40
1/4		1/4		1/4		1/4		1/4	4,941.33	1/4	4,584.73	1/4	4,226.46	1/4	3,867.61	1/4	3,508.77	1/4	3,149.93
1/2		1/2		1/2		1/2		1/2	4,933.91	1/2	4,577.27	1/2	4,218.98	1/2	3,860.14	1/2	3,501.30	1/2	3,142.45
3/4		3/4		3/4		3/4		3/4	4,926.49	3/4	4,569.82	3/4	4,211.51	3/4	3,852.66	3/4	3,493.82	3/4	3,134.98
7	7	7	7	7	7	7	7	7	4,919.08	7	4,562.37	7	4,204.03	7	3,845.19	7	3,486.34	7	3,127.50
1/4		1/4		1/4		1/4		1/4	4,911.66	1/4	4,554.91	1/4	4,196.55	1/4	3,837.71	1/4	3,478.87	1/4	3,120.02
1/2		1/2		1/2		1/2		1/2	4,904.24	1/2	4,547.46	1/2	4,189.08	1/2	3,830.24	1/2	3,471.39	1/2	3,112.55
3/4		3/4		3/4		3/4		3/4	4,896.82	3/4	4,540.00	3/4	4,181.60	3/4	3,822.76	3/4	3,463.92	3/4	3,105.07
8	8	8	8	8	8	8	8	8	4,889.41	8	4,532.55	8	4,174.13	8	3,815.28	8	3,456.44	8	3,097.60
1/4		1/4		1/4		1/4		1/4	4,881.99	1/4	4,525.09	1/4	4,166.65	1/4	3,807.81	1/4	3,448.96	1/4	3,090.12
1/2		1/2		1/2		1/2		1/2	4,874.57	1/2	4,517.64	1/2	4,159.17	1/2	3,800.33	1/2	3,441.49	1/2	3,082.65
3/4		3/4		3/4		3/4		3/4	4,867.16	3/4	4,510.19	3/4	4,151.70	3/4	3,792.86	3/4	3,434.01	3/4	3,075.17
9	9	9	9	9	9	9	9	9	4,859.74	9	4,502.73	9	4,144.22	9	3,785.38	9	3,426.54	9	3,067.69
1/4		1/4		1/4		1/4		1/4	4,852.33	1/4	4,495.28	1/4	4,136.75	1/4	3,777.90	1/4	3,419.06	1/4	3,060.22
1/2		1/2		1/2		1/2		1/2	4,844.91	1/2	4,487.82	1/2	4,129.27	1/2	3,770.43	1/2	3,411.58	1/2	3,052.74
3/4		3/4		3/4		3/4		3/4	4,837.50	3/4	4,480.37	3/4	4,121.80	3/4	3,762.95	3/4	3,404.11	3/4	3,045.27
10	10	10	10	10	10	10	10	10	4,830.08	10	4,472.91	10	4,114.32	10	3,755.48	10	3,396.63	10	3,037.79
1/4		1/4		1/4		1/4		1/4	4,822.67	1/4	4,465.46	1/4	4,106.84	1/4	3,748.00	1/4	3,389.16	1/4	3,030.31
1/2		1/2		1/2		1/2		1/2	4,815.26	1/2	4,458.01	1/2	4,099.37	1/2	3,740.52	1/2	3,381.68	1/2	3,022.84
3/4		3/4		3/4		3/4		3/4	4,807.84	3/4	4,450.55	3/4	4,091.89	3/4	3,733.05	3/4	3,374.21	3/4	3,015.36
11	11	11	11	11	11	11	11	11	4,800.43	11	4,443.10	11	4,084.42	11	3,725.57	11	3,366.73	11	3,007.89
1/4		1/4		1/4		1/4		1/4	4,793.01	1/4	4,435.64	1/4	4,076.94	1/4	3,718.10	1/4	3,359.25	1/4	3,000.41
1/2		1/2		1/2		1/2		1/2	4,785.60	1/2	4,428.19	1/2	4,069.46	1/2	3,710.62	1/2	3,351.78	1/2	2,992.93
3/4		3/4		3/4		3/4		3/4	4,778.18	3/4	4,420.73	3/4	4,061.99	3/4	3,703.14	3/4	3,344.30	3/4	2,985.46

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" DEVICE
 GAUGE POINT: (HERMETIC) LOCATED 12'-07" OFF CENTERLINE AND 46'-03" FORWARD OF AFT BULKHEAD

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



BARGE "HTCO 3133"

2 PORT 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	2,618.95	0	2,259.91	0	1,900.87	0	1,541.83	0	1,183.07	0	837.80	0	479.07	0	120.04	0		0	
1/4	2,611.47	1/4	2,252.43	1/4	1,893.39	1/4	1,534.35	1/4	1,175.73	1/4	830.47	1/4	471.59	1/4	112.56	1/4		1/4	
1/2	2,603.99	1/2	2,244.95	1/2	1,885.91	1/2	1,526.87	1/2	1,168.39	1/2	823.14	1/2	464.11	1/2	105.08	1/2		1/2	
3/4	2,596.51	3/4	2,237.47	3/4	1,878.43	3/4	1,519.39	3/4	1,161.20	3/4	815.66	3/4	456.63	3/4	97.60	3/4		3/4	
1	2,589.03	1	2,229.99	1	1,870.95	1	1,511.91	1	1,154.00	1	808.18	1	449.15	1	90.12	1		1	
1/4	2,581.55	1/4	2,222.51	1/4	1,863.47	1/4	1,504.43	1/4	1,146.80	1/4	800.70	1/4	441.67	1/4	82.64	1/4		1/4	
1/2	2,574.07	1/2	2,215.03	1/2	1,855.99	1/2	1,496.95	1/2	1,139.60	1/2	793.22	1/2	434.19	1/2	75.16	1/2		1/2	
3/4	2,566.59	3/4	2,207.55	3/4	1,848.51	3/4	1,489.47	3/4	1,132.41	3/4	785.74	3/4	426.71	3/4	68.15	3/4		3/4	
2	2,559.11	2	2,200.07	2	1,841.03	2	1,481.99	2	1,125.22	2	778.26	2	419.23	2	61.14	2		2	
1/4	2,551.63	1/4	2,192.59	1/4	1,833.55	1/4	1,474.51	1/4	1,118.03	1/4	770.78	1/4	411.75	1/4	54.13	1/4		1/4	
1/2	2,544.15	1/2	2,185.11	1/2	1,826.07	1/2	1,467.03	1/2	1,110.84	1/2	763.30	1/2	404.27	1/2	47.11	1/2		1/2	
3/4	2,536.67	3/4	2,177.63	3/4	1,818.59	3/4	1,459.55	3/4	1,103.66	3/4	755.82	3/4	396.79	3/4	41.50	3/4		3/4	
3	2,529.19	3	2,170.15	3	1,811.11	3	1,452.07	3	1,096.47	3	748.34	3	389.31	3	35.89	3		3	
1/4	2,521.71	1/4	2,162.67	1/4	1,803.63	1/4	1,444.59	1/4	1,089.29	1/4	740.86	1/4	381.83	1/4	30.28	1/4		1/4	
1/2	2,514.23	1/2	2,155.19	1/2	1,796.15	1/2	1,437.11	1/2	1,082.11	1/2	733.38	1/2	374.35	1/2	24.67	1/2		1/2	
3/4	2,506.75	3/4	2,147.71	3/4	1,788.67	3/4	1,429.63	3/4	1,074.93	3/4	725.90	3/4	366.87	3/4	20.93	3/4		3/4	
4	2,499.27	4	2,140.23	4	1,781.19	4	1,422.15	4	1,067.75	4	718.43	4	359.39	4		4		4	
1/4	2,491.79	1/4	2,132.75	1/4	1,773.71	1/4	1,414.67	1/4	1,060.57	1/4	710.95	1/4	351.91	1/4		1/4		1/4	
1/2	2,484.31	1/2	2,125.27	1/2	1,766.23	1/2	1,407.19	1/2	1,053.39	1/2	703.47	1/2	344.44	1/2		1/2		1/2	
3/4	2,476.83	3/4	2,117.79	3/4	1,758.75	3/4	1,399.71	3/4	1,046.21	3/4	695.99	3/4	336.96	3/4		3/4		3/4	
5	2,469.35	5	2,110.31	5	1,751.27	5	1,392.23	5	1,039.03	5	688.51	5	329.48	5		5		5	
1/4	2,461.87	1/4	2,102.83	1/4	1,743.79	1/4	1,384.75	1/4	1,031.86	1/4	681.03	1/4	322.00	1/4		1/4		1/4	
1/2	2,454.39	1/2	2,095.35	1/2	1,736.31	1/2	1,377.27	1/2	1,024.68	1/2	673.55	1/2	314.52	1/2		1/2		1/2	
3/4	2,446.91	3/4	2,087.87	3/4	1,728.83	3/4	1,369.79	3/4	1,017.50	3/4	666.07	3/4	307.04	3/4		3/4		3/4	
6	2,439.43	6	2,080.39	6	1,721.35	6	1,362.31	6	1,010.33	6	658.59	6	299.56	6		6		6	
1/4	2,431.95	1/4	2,072.91	1/4	1,713.87	1/4	1,354.83	1/4	1,003.15	1/4	651.11	1/4	292.08	1/4		1/4		1/4	
1/2	2,424.47	1/2	2,065.43	1/2	1,706.39	1/2	1,347.35	1/2	995.98	1/2	643.63	1/2	284.60	1/2		1/2		1/2	
3/4	2,416.99	3/4	2,057.95	3/4	1,698.91	3/4	1,339.87	3/4	988.80	3/4	636.15	3/4	277.12	3/4		3/4		3/4	
7	2,409.51	7	2,050.47	7	1,691.43	7	1,332.39	7	981.62	7	628.67	7	269.64	7		7		7	
1/4	2,402.03	1/4	2,042.99	1/4	1,683.95	1/4	1,324.91	1/4	974.45	1/4	621.19	1/4	262.16	1/4		1/4		1/4	
1/2	2,394.55	1/2	2,035.51	1/2	1,676.47	1/2	1,317.43	1/2	967.27	1/2	613.71	1/2	254.68	1/2		1/2		1/2	
3/4	2,387.07	3/4	2,028.03	3/4	1,668.99	3/4	1,309.95	3/4	960.09	3/4	606.23	3/4	247.20	3/4		3/4		3/4	
8	2,379.59	8	2,020.55	8	1,661.51	8	1,302.47	8	952.92	8	598.75	8	239.72	8		8		8	
1/4	2,372.11	1/4	2,013.07	1/4	1,654.03	1/4	1,294.99	1/4	945.74	1/4	591.27	1/4	232.24	1/4		1/4		1/4	
1/2	2,364.63	1/2	2,005.59	1/2	1,646.55	1/2	1,287.51	1/2	938.57	1/2	583.79	1/2	224.76	1/2		1/2		1/2	
3/4	2,357.15	3/4	1,998.11	3/4	1,639.07	3/4	1,280.03	3/4	931.39	3/4	576.31	3/4	217.28	3/4		3/4		3/4	
9	2,349.67	9	1,990.63	9	1,631.59	9	1,272.55	9	924.21	9	568.83	9	209.80	9		9		9	
1/4	2,342.19	1/4	1,983.15	1/4	1,624.11	1/4	1,265.07	1/4	917.04	1/4	561.35	1/4	202.32	1/4		1/4		1/4	
1/2	2,334.71	1/2	1,975.67	1/2	1,616.63	1/2	1,257.59	1/2	909.86	1/2	553.87	1/2	194.84	1/2		1/2		1/2	
3/4	2,327.23	3/4	1,968.19	3/4	1,609.15	3/4	1,250.11	3/4	902.68	3/4	546.39	3/4	187.36	3/4		3/4		3/4	
10	2,319.75	10	1,960.71	10	1,601.67	10	1,242.63	10	895.51	10	538.91	10	179.88	10		10		10	
1/4	2,312.27	1/4	1,953.23	1/4	1,594.19	1/4	1,235.15	1/4	888.33	1/4	531.43	1/4	172.40	1/4		1/4		1/4	
1/2	2,304.79	1/2	1,945.75	1/2	1,586.71	1/2	1,227.67	1/2	881.15	1/2	523.95	1/2	164.92	1/2		1/2		1/2	
3/4	2,297.31	3/4	1,938.27	3/4	1,579.23	3/4	1,220.19	3/4	873.98	3/4	516.47	3/4	157.44	3/4		3/4		3/4	
11	2,289.83	11	1,930.79	11	1,571.75	11	1,212.71	11	866.80	11	508.99	11	149.96	11		11		11	
1/4	2,282.35	1/4	1,923.31	1/4	1,564.27	1/4	1,205.23	1/4	859.63	1/4	501.51	1/4	142.48	1/4		1/4		1/4	
1/2	2,274.87	1/2	1,915.83	1/2	1,556.79	1/2	1,197.75	1/2	852.45	1/2	494.03	1/2	135.00	1/2		1/2		1/2	
3/4	2,267.39	3/4	1,908.35	3/4	1,549.31	3/4	1,190.41	3/4	845.12	3/4	486.55	3/4	127.52	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/02/2014 CL
RECALCULATED: 07/18/2019 CL
REPRINTED: 07/18/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2019

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



BARGE "HTCO 3133"

2 STBD

ULLAGE TABLE

HERMETIC

GAUGE HEIGHT 17'-03 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	4,777.24	0	4,419.71	0	4,060.94	0	3,702.09	0	3,343.24	0	2,984.39		
1/4		1/4		1/4		1/4	4,769.82	1/4	4,412.26	1/4	4,053.46	1/4	3,694.62	1/4	3,335.77	1/4	2,976.92		
1/2		1/2		1/2		1/2	4,762.41	1/2	4,404.80	1/2	4,045.99	1/2	3,687.14	1/2	3,328.29	1/2	2,969.44		
3/4		3/4		3/4		3/4	4,754.99	3/4	4,397.33	3/4	4,038.51	3/4	3,679.66	3/4	3,320.81	3/4	2,961.96		
1		1		1		1	5,091.83	1	4,747.58	1	4,389.87	1	4,031.04	1	3,672.19	1	3,313.34	1	2,954.48
1/4		1/4		1/4		1/4	5,087.08	1/4	4,740.17	1/4	4,382.41	1/4	4,023.56	1/4	3,664.71	1/4	3,305.86	1/4	2,947.00
1/2		1/2		1/2		1/2	5,081.27	1/2	4,732.73	1/2	4,374.93	1/2	4,016.08	1/2	3,657.24	1/2	3,298.39	1/2	2,939.52
3/4		3/4		3/4		3/4	5,075.45	3/4	4,725.30	3/4	4,367.45	3/4	4,008.61	3/4	3,649.76	3/4	3,290.91	3/4	2,932.04
2		2		2		2	5,069.64	2	4,717.86	2	4,359.98	2	4,001.13	2	3,642.28	2	3,283.43	2	2,924.56
1/4		1/4		1/4		1/4	5,063.82	1/4	4,710.43	1/4	4,352.50	1/4	3,993.66	1/4	3,634.81	1/4	3,275.96	1/4	2,917.08
1/2		1/2		1/2		1/2	5,057.00	1/2	4,702.98	1/2	4,345.03	1/2	3,986.18	1/2	3,627.33	1/2	3,268.48	1/2	2,909.60
3/4		3/4		3/4		3/4	5,050.19	3/4	4,695.52	3/4	4,337.55	3/4	3,978.70	3/4	3,619.86	3/4	3,261.01	3/4	2,902.12
3		3		3		3	5,043.37	3	4,688.07	3	4,330.07	3	3,971.23	3	3,612.38	3	3,253.53	3	2,894.64
1/4		1/4		1/4		1/4	5,036.55	1/4	4,680.61	1/4	4,322.60	1/4	3,963.75	1/4	3,604.90	1/4	3,246.05	1/4	2,887.16
1/2		1/2		1/2		1/2	5,029.20	1/2	4,673.16	1/2	4,315.12	1/2	3,956.28	1/2	3,597.43	1/2	3,238.58	1/2	2,879.68
3/4		3/4		3/4		3/4	5,021.85	3/4	4,665.70	3/4	4,307.65	3/4	3,948.80	3/4	3,589.95	3/4	3,231.10	3/4	2,872.20
4		4		4		4	5,014.50	4	4,658.25	4	4,300.17	4	3,941.32	4	3,582.48	4	3,223.63	4	2,864.72
1/4		1/4		1/4		1/4	5,007.14	1/4	4,650.80	1/4	4,292.70	1/4	3,933.85	1/4	3,575.00	1/4	3,216.15	1/4	2,857.24
1/2		1/2		1/2		1/2	4,999.72	1/2	4,643.34	1/2	4,285.22	1/2	3,926.37	1/2	3,567.52	1/2	3,208.67	1/2	2,849.76
3/4		3/4		3/4		3/4	4,992.31	3/4	4,635.89	3/4	4,277.74	3/4	3,918.90	3/4	3,560.05	3/4	3,201.20	3/4	2,842.28
5		5		5		5	4,984.89	5	4,628.43	5	4,270.27	5	3,911.42	5	3,552.57	5	3,193.72	5	2,834.80
1/4		1/4		1/4		1/4	4,977.47	1/4	4,620.98	1/4	4,262.79	1/4	3,903.94	1/4	3,545.10	1/4	3,186.25	1/4	2,827.32
1/2		1/2		1/2		1/2	4,970.05	1/2	4,613.52	1/2	4,255.32	1/2	3,896.47	1/2	3,537.62	1/2	3,178.77	1/2	2,819.84
3/4		3/4		3/4		3/4	4,962.63	3/4	4,606.07	3/4	4,247.84	3/4	3,888.99	3/4	3,530.14	3/4	3,171.29	3/4	2,812.36
6		6		6		6	4,955.21	6	4,598.62	6	4,240.36	6	3,881.52	6	3,522.67	6	3,163.82	6	2,804.88
1/4		1/4		1/4		1/4	4,947.80	1/4	4,591.16	1/4	4,232.89	1/4	3,874.04	1/4	3,515.19	1/4	3,156.34	1/4	2,797.40
1/2		1/2		1/2		1/2	4,940.38	1/2	4,583.71	1/2	4,225.41	1/2	3,866.56	1/2	3,507.72	1/2	3,148.87	1/2	2,789.92
3/4		3/4		3/4		3/4	4,932.96	3/4	4,576.25	3/4	4,217.94	3/4	3,859.09	3/4	3,500.24	3/4	3,141.39	3/4	2,782.44
7		7		7		7	4,925.54	7	4,568.80	7	4,210.46	7	3,851.61	7	3,492.76	7	3,133.91	7	2,774.96
1/4		1/4		1/4		1/4	4,918.12	1/4	4,561.34	1/4	4,202.98	1/4	3,844.14	1/4	3,485.29	1/4	3,126.44	1/4	2,767.48
1/2		1/2		1/2		1/2	4,910.70	1/2	4,553.89	1/2	4,195.51	1/2	3,836.66	1/2	3,477.81	1/2	3,118.96	1/2	2,760.00
3/4		3/4		3/4		3/4	4,903.29	3/4	4,546.44	3/4	4,188.03	3/4	3,829.18	3/4	3,470.34	3/4	3,111.49	3/4	2,752.52
8		8		8		8	4,895.87	8	4,538.98	8	4,180.56	8	3,821.71	8	3,462.86	8	3,104.01	8	2,745.04
1/4		1/4		1/4		1/4	4,888.46	1/4	4,531.53	1/4	4,173.08	1/4	3,814.23	1/4	3,455.38	1/4	3,096.53	1/4	2,737.56
1/2		1/2		1/2		1/2	4,881.04	1/2	4,524.07	1/2	4,165.60	1/2	3,806.76	1/2	3,447.91	1/2	3,089.06	1/2	2,730.08
3/4		3/4		3/4		3/4	4,873.63	3/4	4,516.62	3/4	4,158.13	3/4	3,799.28	3/4	3,440.43	3/4	3,081.58	3/4	2,722.60
9		9		9		9	4,866.21	9	4,509.16	9	4,150.65	9	3,791.80	9	3,432.95	9	3,074.11	9	2,715.12
1/4		1/4		1/4		1/4	4,858.80	1/4	4,501.71	1/4	4,143.18	1/4	3,784.33	1/4	3,425.48	1/4	3,066.63	1/4	2,707.64
1/2		1/2		1/2		1/2	4,851.38	1/2	4,494.26	1/2	4,135.70	1/2	3,776.85	1/2	3,418.00	1/2	3,059.15	1/2	2,700.16
3/4		3/4		3/4		3/4	4,843.97	3/4	4,486.80	3/4	4,128.22	3/4	3,769.38	3/4	3,410.53	3/4	3,051.68	3/4	2,692.68
10		10		10		10	4,836.55	10	4,479.35	10	4,120.75	10	3,761.90	10	3,403.05	10	3,044.20	10	2,685.20
1/4		1/4		1/4		1/4	4,829.14	1/4	4,471.89	1/4	4,113.27	1/4	3,754.42	1/4	3,395.57	1/4	3,036.73	1/4	2,677.72
1/2		1/2		1/2		1/2	4,821.72	1/2	4,464.44	1/2	4,105.80	1/2	3,746.95	1/2	3,388.10	1/2	3,029.25	1/2	2,670.24
3/4		3/4		3/4		3/4	4,814.31	3/4	4,456.98	3/4	4,098.32	3/4	3,739.47	3/4	3,380.62	3/4	3,021.77	3/4	2,662.76
11		11		11		11	4,806.90	11	4,449.53	11	4,090.84	11	3,732.00	11	3,373.15	11	3,014.30	11	2,655.28
1/4		1/4		1/4		1/4	4,799.48	1/4	4,442.08	1/4	4,083.37	1/4	3,724.52	1/4	3,365.67	1/4	3,006.82	1/4	2,647.80
1/2		1/2		1/2		1/2	4,792.07	1/2	4,434.62	1/2	4,075.89	1/2	3,717.04	1/2	3,358.19	1/2	2,999.35	1/2	2,640.32
3/4		3/4		3/4		3/4	4,784.65	3/4	4,427.17	3/4	4,068.42	3/4	3,709.57	3/4	3,350.72	3/4	2,991.87	3/4	2,632.84

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" DEVICE
 GAUGE POINT: (HERMETIC) LOCATED 12'-07" OFF CENTERLINE AND 46'-03" FORWARD OF AFT BULKHEAD

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



BARGE "HTCO 3133"

2 STBD

ULLAGE TABLE HERMETIC

GAUGE HEIGHT 17'-03 1/2"

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	2,625.36	0	2,266.32	0	1,907.28	0	1,548.24	0	1,189.20	0	830.62	0	471.59	0	112.56	0		0	
1/4	2,617.88	1/4	2,258.84	1/4	1,899.80	1/4	1,540.76	1/4	1,181.72	1/4	823.14	1/4	464.11	1/4	105.08	1/4		1/4	
1/2	2,610.40	1/2	2,251.36	1/2	1,892.32	1/2	1,533.28	1/2	1,174.24	1/2	815.66	1/2	456.63	1/2	97.60	1/2		1/2	
3/4	2,602.92	3/4	2,243.88	3/4	1,884.84	3/4	1,525.80	3/4	1,166.76	3/4	808.18	3/4	449.15	3/4	90.12	3/4		3/4	
1	2,595.44	1	2,236.40	1	1,877.36	1	1,518.32	1	1,159.28	1	800.70	1	441.67	1	82.64	1		1	
1/4	2,587.96	1/4	2,228.92	1/4	1,869.88	1/4	1,510.84	1/4	1,151.80	1/4	793.22	1/4	434.19	1/4	75.16	1/4		1/4	
1/2	2,580.48	1/2	2,221.44	1/2	1,862.40	1/2	1,503.36	1/2	1,144.32	1/2	785.74	1/2	426.71	1/2	68.15	1/2		1/2	
3/4	2,573.00	3/4	2,213.96	3/4	1,854.92	3/4	1,495.88	3/4	1,136.84	3/4	778.26	3/4	419.23	3/4	61.14	3/4		3/4	
2	2,565.52	2	2,206.48	2	1,847.44	2	1,488.40	2	1,129.37	2	770.78	2	411.75	2	54.13	2		2	
1/4	2,558.04	1/4	2,199.00	1/4	1,839.96	1/4	1,480.92	1/4	1,121.89	1/4	763.30	1/4	404.27	1/4	47.11	1/4		1/4	
1/2	2,550.56	1/2	2,191.52	1/2	1,832.48	1/2	1,473.44	1/2	1,114.41	1/2	755.82	1/2	396.79	1/2	41.50	1/2		1/2	
3/4	2,543.08	3/4	2,184.04	3/4	1,825.00	3/4	1,465.96	3/4	1,106.94	3/4	748.34	3/4	389.31	3/4	35.89	3/4		3/4	
3	2,535.60	3	2,176.56	3	1,817.52	3	1,458.48	3	1,099.47	3	740.87	3	381.83	3	30.28	3		3	
1/4	2,528.12	1/4	2,169.08	1/4	1,810.04	1/4	1,451.00	1/4	1,091.99	1/4	733.39	1/4	374.35	1/4	24.67	1/4		1/4	
1/2	2,520.64	1/2	2,161.60	1/2	1,802.56	1/2	1,443.52	1/2	1,084.52	1/2	725.91	1/2	366.88	1/2	20.94	1/2		1/2	
3/4	2,513.16	3/4	2,154.12	3/4	1,795.08	3/4	1,436.04	3/4	1,077.05	3/4	718.43	3/4	359.40	3/4		3/4		3/4	
4	2,505.68	4	2,146.64	4	1,787.60	4	1,428.56	4	1,069.58	4	710.95	4	351.92	4		4		4	
1/4	2,498.20	1/4	2,139.16	1/4	1,780.12	1/4	1,421.08	1/4	1,062.11	1/4	703.47	1/4	344.44	1/4		1/4		1/4	
1/2	2,490.72	1/2	2,131.68	1/2	1,772.64	1/2	1,413.60	1/2	1,054.64	1/2	695.99	1/2	336.96	1/2		1/2		1/2	
3/4	2,483.24	3/4	2,124.20	3/4	1,765.16	3/4	1,406.12	3/4	1,047.17	3/4	688.51	3/4	329.48	3/4		3/4		3/4	
5	2,475.76	5	2,116.72	5	1,757.68	5	1,398.64	5	1,039.71	5	681.03	5	322.00	5		5		5	
1/4	2,468.28	1/4	2,109.24	1/4	1,750.20	1/4	1,391.16	1/4	1,032.24	1/4	673.55	1/4	314.52	1/4		1/4		1/4	
1/2	2,460.80	1/2	2,101.76	1/2	1,742.72	1/2	1,383.68	1/2	1,024.77	1/2	666.07	1/2	307.04	1/2		1/2		1/2	
3/4	2,453.32	3/4	2,094.28	3/4	1,735.24	3/4	1,376.20	3/4	1,017.31	3/4	658.59	3/4	299.56	3/4		3/4		3/4	
6	2,445.84	6	2,086.80	6	1,727.76	6	1,368.72	6	1,009.84	6	651.11	6	292.08	6		6		6	
1/4	2,438.36	1/4	2,079.32	1/4	1,720.28	1/4	1,361.24	1/4	1,002.37	1/4	643.63	1/4	284.60	1/4		1/4		1/4	
1/2	2,430.88	1/2	2,071.84	1/2	1,712.80	1/2	1,353.76	1/2	994.90	1/2	636.15	1/2	277.12	1/2		1/2		1/2	
3/4	2,423.40	3/4	2,064.36	3/4	1,705.32	3/4	1,346.28	3/4	987.44	3/4	628.67	3/4	269.64	3/4		3/4		3/4	
7	2,415.92	7	2,056.88	7	1,697.84	7	1,338.80	7	979.97	7	621.19	7	262.16	7		7		7	
1/4	2,408.44	1/4	2,049.40	1/4	1,690.36	1/4	1,331.32	1/4	972.50	1/4	613.71	1/4	254.68	1/4		1/4		1/4	
1/2	2,400.96	1/2	2,041.92	1/2	1,682.88	1/2	1,323.84	1/2	965.04	1/2	606.23	1/2	247.20	1/2		1/2		1/2	
3/4	2,393.48	3/4	2,034.44	3/4	1,675.40	3/4	1,316.36	3/4	957.57	3/4	598.75	3/4	239.72	3/4		3/4		3/4	
8	2,386.00	8	2,026.96	8	1,667.92	8	1,308.88	8	950.10	8	591.27	8	232.24	8		8		8	
1/4	2,378.52	1/4	2,019.48	1/4	1,660.44	1/4	1,301.40	1/4	942.64	1/4	583.79	1/4	224.76	1/4		1/4		1/4	
1/2	2,371.04	1/2	2,012.00	1/2	1,652.96	1/2	1,293.92	1/2	935.17	1/2	576.31	1/2	217.28	1/2		1/2		1/2	
3/4	2,363.56	3/4	2,004.52	3/4	1,645.48	3/4	1,286.44	3/4	927.70	3/4	568.83	3/4	209.80	3/4		3/4		3/4	
9	2,356.08	9	1,997.04	9	1,638.00	9	1,278.96	9	920.23	9	561.35	9	202.32	9		9		9	
1/4	2,348.60	1/4	1,989.56	1/4	1,630.52	1/4	1,271.48	1/4	912.77	1/4	553.87	1/4	194.84	1/4		1/4		1/4	
1/2	2,341.12	1/2	1,982.08	1/2	1,623.04	1/2	1,264.00	1/2	905.30	1/2	546.39	1/2	187.36	1/2		1/2		1/2	
3/4	2,333.64	3/4	1,974.60	3/4	1,615.56	3/4	1,256.52	3/4	897.83	3/4	538.91	3/4	179.88	3/4		3/4		3/4	
10	2,326.16	10	1,967.12	10	1,608.08	10	1,249.04	10	890.37	10	531.43	10	172.40	10		10		10	
1/4	2,318.68	1/4	1,959.64	1/4	1,600.60	1/4	1,241.56	1/4	882.90	1/4	523.95	1/4	164.92	1/4		1/4		1/4	
1/2	2,311.20	1/2	1,952.16	1/2	1,593.12	1/2	1,234.08	1/2	875.43	1/2	516.47	1/2	157.44	1/2		1/2		1/2	
3/4	2,303.72	3/4	1,944.68	3/4	1,585.64	3/4	1,226.60	3/4	867.97	3/4	508.99	3/4	149.96	3/4		3/4		3/4	
11	2,296.24	11	1,937.20	11	1,578.16	11	1,219.12	11	860.50	11	501.51	11	142.48	11		11		11	
1/4	2,288.76	1/4	1,929.72	1/4	1,570.68	1/4	1,211.64	1/4	853.03	1/4	494.03	1/4	135.00	1/4		1/4		1/4	
1/2	2,281.28	1/2	1,922.24	1/2	1,563.20	1/2	1,204.16	1/2	845.56	1/2	486.55	1/2	127.52	1/2		1/2		1/2	
3/4	2,273.80	3/4	1,914.76	3/4	1,555.72	3/4	1,196.68	3/4	838.09	3/4	479.07	3/4	120.04	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/02/2014 CL
RECALCULATED: 07/18/2019 CL
REPRINTED: 07/18/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2019

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



BARGE "HTCO 3133"

3 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	4,378.49	0	4,132.37	0	3,885.40	0	3,638.37	0	3,314.49	0	2,958.40		
1/4		1/4		1/4		1/4	4,373.39	1/4	4,127.24	1/4	3,880.25	1/4	3,633.22	1/4	3,277.09	1/4	2,950.97		
1/2		1/2		1/2		1/2	4,368.29	1/2	4,122.11	1/2	3,875.11	1/2	3,628.07	1/2	3,299.69	1/2	2,943.55		
3/4		3/4		3/4		3/4	4,363.18	3/4	4,116.97	3/4	3,869.96	3/4	3,622.93	3/4	3,292.29	3/4	2,936.13		
1		1		1		1	4,358.08	1	4,111.83	1	3,864.81	1	3,617.78	1	3,284.89	1	2,928.70		
1/4		1/4		1/4		1/4	4,586.36	1/4	4,352.97	1/4	4,106.69	1/4	3,859.67	1/4	3,612.63	1/4	3,277.49	1/4	2,921.28
1/2		1/2		1/2		1/2	4,583.92	1/2	4,347.87	1/2	4,101.55	1/2	3,854.52	1/2	3,607.49	1/2	3,270.09	1/2	2,913.85
3/4		3/4		3/4		3/4	4,580.41	3/4	4,342.75	3/4	4,096.41	3/4	3,849.37	3/4	3,602.34	3/4	3,262.67	3/4	2,906.43
2		2		2		2	4,576.89	2	4,337.63	2	4,091.26	2	3,844.23	2	3,597.19	2	3,255.26	2	2,899.00
1/4		1/4		1/4		1/4	4,573.38	1/4	4,332.51	1/4	4,086.11	1/4	3,839.08	1/4	3,592.05	1/4	3,247.85	1/4	2,891.58
1/2		1/2		1/2		1/2	4,569.87	1/2	4,327.39	1/2	4,080.97	1/2	3,833.93	1/2	3,586.90	1/2	3,240.44	1/2	2,884.15
3/4		3/4		3/4		3/4	4,565.36	3/4	4,322.26	3/4	4,075.82	3/4	3,828.79	3/4	3,581.18	3/4	3,233.02	3/4	2,876.73
3		3		3		3	4,560.85	3	4,317.13	3	4,070.67	3	3,823.64	3	3,575.46	3	3,225.59	3	2,869.30
1/4		1/4		1/4		1/4	4,556.35	1/4	4,311.99	1/4	4,065.53	1/4	3,818.49	1/4	3,569.74	1/4	3,218.17	1/4	2,861.88
1/2		1/2		1/2		1/2	4,551.84	1/2	4,306.86	1/2	4,060.38	1/2	3,813.35	1/2	3,564.02	1/2	3,210.75	1/2	2,854.45
3/4		3/4		3/4		3/4	4,546.80	3/4	4,301.73	3/4	4,055.23	3/4	3,808.20	3/4	3,557.17	3/4	3,203.33	3/4	2,847.03
4		4		4		4	4,541.75	4	4,296.60	4	4,050.09	4	3,803.05	4	3,550.31	4	3,195.91	4	2,839.60
1/4		1/4		1/4		1/4	4,536.71	1/4	4,291.47	1/4	4,044.94	1/4	3,797.91	1/4	3,543.46	1/4	3,188.48	1/4	2,832.18
1/2		1/2		1/2		1/2	4,531.67	1/2	4,286.33	1/2	4,039.79	1/2	3,792.76	1/2	3,536.60	1/2	3,181.06	1/2	2,824.75
3/4		3/4		3/4		3/4	4,526.57	3/4	4,281.20	3/4	4,034.65	3/4	3,787.62	3/4	3,529.19	3/4	3,173.64	3/4	2,817.33
5		5		5		5	4,521.46	5	4,276.07	5	4,029.50	5	3,782.47	5	3,521.78	5	3,166.22	5	2,809.91
1/4		1/4		1/4		1/4	4,516.35	1/4	4,270.94	1/4	4,024.35	1/4	3,777.32	1/4	3,514.37	1/4	3,158.80	1/4	2,802.48
1/2		1/2		1/2		1/2	4,511.24	1/2	4,265.81	1/2	4,019.21	1/2	3,772.18	1/2	3,506.95	1/2	3,151.37	1/2	2,795.06
3/4		3/4		3/4		3/4	4,506.14	3/4	4,260.67	3/4	4,014.06	3/4	3,767.03	3/4	3,499.55	3/4	3,143.95	3/4	2,787.63
6		6		6		6	4,501.03	6	4,255.54	6	4,008.91	6	3,761.88	6	3,492.14	6	3,136.53	6	2,780.21
1/4		1/4		1/4		1/4	4,495.92	1/4	4,250.41	1/4	4,003.77	1/4	3,756.74	1/4	3,484.73	1/4	3,129.11	1/4	2,772.78
1/2		1/2		1/2		1/2	4,490.81	1/2	4,245.28	1/2	3,998.62	1/2	3,751.59	1/2	3,477.32	1/2	3,121.69	1/2	2,765.36
3/4		3/4		3/4		3/4	4,485.71	3/4	4,240.15	3/4	3,993.48	3/4	3,746.44	3/4	3,469.92	3/4	3,114.26	3/4	2,757.93
7		7		7		7	4,480.60	7	4,235.01	7	3,988.33	7	3,741.30	7	3,462.52	7	3,106.84	7	2,750.51
1/4		1/4		1/4		1/4	4,475.49	1/4	4,229.88	1/4	3,983.18	1/4	3,736.15	1/4	3,455.12	1/4	3,099.42	1/4	2,743.08
1/2		1/2		1/2		1/2	4,470.38	1/2	4,224.75	1/2	3,978.04	1/2	3,731.00	1/2	3,447.72	1/2	3,092.00	1/2	2,735.66
3/4		3/4		3/4		3/4	4,465.28	3/4	4,219.62	3/4	3,972.89	3/4	3,725.86	3/4	3,440.32	3/4	3,084.57	3/4	2,728.23
8		8		8		8	4,460.17	8	4,214.49	8	3,967.74	8	3,720.71	8	3,432.92	8	3,077.15	8	2,720.81
1/4		1/4		1/4		1/4	4,455.07	1/4	4,209.35	1/4	3,962.60	1/4	3,715.56	1/4	3,425.51	1/4	3,069.73	1/4	2,713.38
1/2		1/2		1/2		1/2	4,449.96	1/2	4,204.22	1/2	3,957.45	1/2	3,710.42	1/2	3,418.11	1/2	3,062.31	1/2	2,705.96
3/4		3/4		3/4		3/4	4,444.86	3/4	4,199.09	3/4	3,952.30	3/4	3,705.27	3/4	3,410.71	3/4	3,054.89	3/4	2,698.53
9		9		9		9	4,439.75	9	4,193.96	9	3,947.16	9	3,700.12	9	3,403.31	9	3,047.46	9	2,691.11
1/4		1/4		1/4		1/4	4,434.65	1/4	4,188.83	1/4	3,942.01	1/4	3,694.98	1/4	3,395.91	1/4	3,040.04	1/4	2,683.68
1/2		1/2		1/2		1/2	4,429.54	1/2	4,183.69	1/2	3,936.86	1/2	3,689.83	1/2	3,388.51	1/2	3,032.62	1/2	2,676.26
3/4		3/4		3/4		3/4	4,424.44	3/4	4,178.56	3/4	3,931.72	3/4	3,684.69	3/4	3,381.11	3/4	3,025.20	3/4	2,668.83
10		10		10		10	4,419.33	10	4,173.43	10	3,926.57	10	3,679.54	10	3,373.70	10	3,017.78	10	2,661.41
1/4		1/4		1/4		1/4	4,414.23	1/4	4,168.30	1/4	3,921.42	1/4	3,674.39	1/4	3,366.30	1/4	3,010.35	1/4	2,653.98
1/2		1/2		1/2		1/2	4,409.12	1/2	4,163.17	1/2	3,916.28	1/2	3,669.25	1/2	3,358.90	1/2	3,002.93	1/2	2,646.56
3/4		3/4		3/4		3/4	4,404.02	3/4	4,158.03	3/4	3,911.13	3/4	3,664.10	3/4	3,351.50	3/4	2,995.51	3/4	2,639.13
11		11		11		11	4,398.91	11	4,152.90	11	3,905.98	11	3,658.95	11	3,344.10	11	2,988.09	11	2,631.71
1/4		1/4		1/4		1/4	4,393.81	1/4	4,147.77	1/4	3,900.84	1/4	3,653.81	1/4	3,336.70	1/4	2,980.67	1/4	2,624.29
1/2		1/2		1/2		1/2	4,388.70	1/2	4,142.64	1/2	3,895.69	1/2	3,648.66	1/2	3,329.30	1/2	2,973.24	1/2	2,616.86
3/4		3/4		3/4		3/4	4,383.60	3/4	4,137.51	3/4	3,890.55	3/4	3,643.51	3/4	3,321.90	3/4	2,965.82	3/4	2,609.43

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" DEVICE
 GAUGE POINT: (HERMETIC) LOCATED 12'-07" OFF CENTERLINE AND 46'-00" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
 Pearland, Texas 77588
<http://www.pmacorp.net>



BARGE "HTCO 3133"

3 PORT 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	2,602.00	0	2,246.53	0	1,892.72	0	1,536.04	0	1,179.51	0	833.13	0	476.43	0	119.51	0			
1/4	2,594.58	1/4	2,239.14	1/4	1,885.32	1/4	1,528.61	1/4	1,172.18	1/4	825.81	1/4	468.99	1/4	112.07	1/4			
1/2	2,587.15	1/2	2,231.76	1/2	1,877.91	1/2	1,521.17	1/2	1,164.85	1/2	818.49	1/2	461.55	1/2	104.63	1/2			
3/4	2,579.71	3/4	2,224.39	3/4	1,870.48	3/4	1,513.74	3/4	1,157.63	3/4	811.06	3/4	454.12	3/4	97.18	3/4			
1	2,572.28	1	2,217.02	1	1,863.05	1	1,506.31	1	1,150.41	1	803.62	1	446.68	1	89.74	1			
1/4	2,564.85	1/4	2,209.65	1/4	1,855.62	1/4	1,498.88	1/4	1,143.19	1/4	796.18	1/4	439.25	1/4	82.29	1/4			
1/2	2,557.42	1/2	2,202.29	1/2	1,848.19	1/2	1,491.44	1/2	1,135.97	1/2	788.75	1/2	431.81	1/2	74.85	1/2			
3/4	2,549.99	3/4	2,194.92	3/4	1,840.75	3/4	1,484.01	3/4	1,128.75	3/4	781.31	3/4	424.38	3/4	67.86	3/4			
2	2,542.55	2	2,187.55	2	1,833.32	2	1,476.58	2	1,121.53	2	773.88	2	416.94	2	60.88	2			
1/4	2,535.12	1/4	2,180.18	1/4	1,825.89	1/4	1,469.15	1/4	1,114.32	1/4	766.44	1/4	409.51	1/4	53.90	1/4			
1/2	2,527.69	1/2	2,172.81	1/2	1,818.46	1/2	1,461.72	1/2	1,107.10	1/2	759.00	1/2	402.07	1/2	46.92	1/2			
3/4	2,520.26	3/4	2,165.44	3/4	1,811.03	3/4	1,454.28	3/4	1,099.89	3/4	751.57	3/4	394.64	3/4	41.33	3/4			
3	2,512.83	3	2,158.07	3	1,803.59	3	1,446.85	3	1,092.68	3	744.13	3	387.20	3	35.74	3			
1/4	2,505.39	1/4	2,150.70	1/4	1,796.16	1/4	1,439.42	1/4	1,085.47	1/4	736.69	1/4	379.77	1/4	30.16	1/4			
1/2	2,497.96	1/2	2,143.33	1/2	1,788.73	1/2	1,431.99	1/2	1,078.26	1/2	729.26	1/2	372.33	1/2	24.57	1/2			
3/4	2,490.55	3/4	2,135.96	3/4	1,781.30	3/4	1,424.56	3/4	1,071.06	3/4	721.82	3/4	364.90	3/4	20.85	3/4			
4	2,483.14	4	2,128.59	4	1,773.86	4	1,417.12	4	1,063.85	4	714.39	4	357.46	4		4			
1/4	2,475.72	1/4	2,121.22	1/4	1,766.43	1/4	1,409.69	1/4	1,056.64	1/4	706.95	1/4	350.03	1/4		1/4			
1/2	2,468.31	1/2	2,113.86	1/2	1,759.00	1/2	1,402.26	1/2	1,049.44	1/2	699.51	1/2	342.59	1/2		1/2			
3/4	2,460.92	3/4	2,106.49	3/4	1,751.57	3/4	1,394.83	3/4	1,042.23	3/4	692.08	3/4	335.16	3/4		3/4			
5	2,453.52	5	2,099.12	5	1,744.14	5	1,387.40	5	1,035.03	5	684.64	5	327.72	5		5			
1/4	2,446.13	1/4	2,091.75	1/4	1,736.70	1/4	1,379.96	1/4	1,027.83	1/4	677.20	1/4	320.29	1/4		1/4			
1/2	2,438.74	1/2	2,084.38	1/2	1,729.27	1/2	1,372.53	1/2	1,020.63	1/2	669.77	1/2	312.85	1/2		1/2			
3/4	2,431.34	3/4	2,077.01	3/4	1,721.84	3/4	1,365.10	3/4	1,013.42	3/4	662.33	3/4	305.42	3/4		3/4			
6	2,423.95	6	2,069.64	6	1,714.41	6	1,357.67	6	1,006.22	6	654.89	6	297.98	6		6			
1/4	2,416.56	1/4	2,062.27	1/4	1,706.98	1/4	1,350.24	1/4	999.02	1/4	647.46	1/4	290.55	1/4		1/4			
1/2	2,409.16	1/2	2,054.90	1/2	1,699.54	1/2	1,342.80	1/2	991.82	1/2	640.02	1/2	283.11	1/2		1/2			
3/4	2,401.77	3/4	2,047.53	3/4	1,692.11	3/4	1,335.37	3/4	984.62	3/4	632.59	3/4	275.68	3/4		3/4			
7	2,394.37	7	2,040.16	7	1,684.68	7	1,327.94	7	977.41	7	625.15	7	268.24	7		7			
1/4	2,386.98	1/4	2,032.79	1/4	1,677.25	1/4	1,320.51	1/4	970.21	1/4	617.71	1/4	260.81	1/4		1/4			
1/2	2,379.59	1/2	2,025.42	1/2	1,669.82	1/2	1,313.07	1/2	963.01	1/2	610.28	1/2	253.37	1/2		1/2			
3/4	2,372.19	3/4	2,018.06	3/4	1,662.38	3/4	1,305.64	3/4	955.81	3/4	602.84	3/4	245.94	3/4		3/4			
8	2,364.80	8	2,010.69	8	1,654.95	8	1,298.21	8	948.60	8	595.40	8	238.50	8		8			
1/4	2,357.41	1/4	2,003.32	1/4	1,647.52	1/4	1,290.78	1/4	941.40	1/4	587.97	1/4	231.07	1/4		1/4			
1/2	2,350.01	1/2	1,995.95	1/2	1,640.09	1/2	1,283.35	1/2	934.20	1/2	580.53	1/2	223.63	1/2		1/2			
3/4	2,342.62	3/4	1,988.58	3/4	1,632.65	3/4	1,275.91	3/4	927.00	3/4	573.10	3/4	216.20	3/4		3/4			
9	2,335.23	9	1,981.21	9	1,625.22	9	1,268.48	9	919.79	9	565.66	9	208.76	9		9			
1/4	2,327.83	1/4	1,973.84	1/4	1,617.79	1/4	1,261.05	1/4	912.59	1/4	558.22	1/4	201.32	1/4		1/4			
1/2	2,320.44	1/2	1,966.47	1/2	1,610.36	1/2	1,253.62	1/2	905.39	1/2	550.79	1/2	193.89	1/2		1/2			
3/4	2,313.04	3/4	1,959.10	3/4	1,602.93	3/4	1,246.19	3/4	898.19	3/4	543.35	3/4	186.45	3/4		3/4			
10	2,305.65	10	1,951.73	10	1,595.49	10	1,238.75	10	890.98	10	535.91	10	179.01	10		10			
1/4	2,298.26	1/4	1,944.36	1/4	1,588.06	1/4	1,231.32	1/4	883.78	1/4	528.48	1/4	171.58	1/4		1/4			
1/2	2,290.86	1/2	1,936.99	1/2	1,580.63	1/2	1,223.89	1/2	876.58	1/2	521.04	1/2	164.14	1/2		1/2			
3/4	2,283.47	3/4	1,929.63	3/4	1,573.20	3/4	1,216.46	3/4	869.38	3/4	513.61	3/4	156.70	3/4		3/4			
11	2,276.08	11	1,922.26	11	1,565.77	11	1,209.03	11	862.17	11	506.17	11	149.26	11		11			
1/4	2,268.68	1/4	1,914.89	1/4	1,558.33	1/4	1,201.59	1/4	854.97	1/4	498.73	1/4	141.83	1/4		1/4			
1/2	2,261.29	1/2	1,907.52	1/2	1,550.90	1/2	1,194.16	1/2	847.77	1/2	491.30	1/2	134.39	1/2		1/2			
3/4	2,253.91	3/4	1,900.12	3/4	1,543.47	3/4	1,186.83	3/4	840.45	3/4	483.86	3/4	126.95	3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/02/2014 CL
RECALCULATED: 07/18/2019 CL
REPRINTED: 07/18/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2019

PRECISION MEASUREMENT
& ANALYSIS, INC.
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Pearland, Texas 77588
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BARGE "HTCO 3133"

3 STBD ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	4,400.28	0	4,154.09	0	3,907.05	0	3,659.95	0	3,335.63	0	2,978.75		
1/4		1/4		1/4		1/4	4,395.17	1/4	4,148.96	1/4	3,901.90	1/4	3,654.80	1/4	3,328.21	1/4	2,971.31		
1/2		1/2		1/2		1/2	4,390.06	1/2	4,143.82	1/2	3,896.75	1/2	3,649.65	1/2	3,320.79	1/2	2,963.87		
3/4		3/4		3/4		3/4	4,384.96	3/4	4,138.68	3/4	3,891.60	3/4	3,644.50	3/4	3,313.37	3/4	2,956.43		
1		1		1		1	4,379.85	1	4,133.54	1	3,886.45	1	3,639.35	1	3,305.96	1	2,948.99		
1/4		1/4		1/4		1/4	4,608.21	1/4	4,374.75	1/4	4,128.40	1/4	3,881.31	1/4	3,634.21	1/4	3,298.54	1/4	2,941.55
1/2		1/2		1/2		1/2	4,605.76	1/2	4,369.64	1/2	4,123.26	1/2	3,876.16	1/2	3,629.06	1/2	3,291.12	1/2	2,934.11
3/4		3/4		3/4		3/4	4,602.25	3/4	4,364.52	3/4	4,118.11	3/4	3,871.01	3/4	3,623.91	3/4	3,283.69	3/4	2,926.67
2		2		2		2	4,598.74	2	4,359.40	2	4,112.96	2	3,865.86	2	3,618.76	2	3,276.26	2	2,919.22
1/4		1/4		1/4		1/4	4,595.22	1/4	4,354.28	1/4	4,107.81	1/4	3,860.71	1/4	3,613.62	1/4	3,268.84	1/4	2,911.78
1/2		1/2		1/2		1/2	4,591.71	1/2	4,349.16	1/2	4,102.67	1/2	3,855.57	1/2	3,608.47	1/2	3,261.41	1/2	2,904.34
3/4		3/4		3/4		3/4	4,587.20	3/4	4,344.03	3/4	4,097.52	3/4	3,850.42	3/4	3,602.75	3/4	3,253.97	3/4	2,896.90
3		3		3		3	4,582.69	3	4,338.90	3	4,092.37	3	3,845.27	3	3,597.02	3	3,246.53	3	2,889.46
1/4		1/4		1/4		1/4	4,578.18	1/4	4,333.76	1/4	4,087.22	1/4	3,840.12	1/4	3,591.30	1/4	3,239.09	1/4	2,882.02
1/2		1/2		1/2		1/2	4,573.67	1/2	4,328.63	1/2	4,082.07	1/2	3,834.98	1/2	3,585.58	1/2	3,231.66	1/2	2,874.58
3/4		3/4		3/4		3/4	4,568.63	3/4	4,323.49	3/4	4,076.93	3/4	3,829.83	3/4	3,578.73	3/4	3,224.22	3/4	2,867.14
4		4		4		4	4,563.58	4	4,318.36	4	4,071.78	4	3,824.68	4	3,571.87	4	3,216.78	4	2,859.70
1/4		1/4		1/4		1/4	4,558.54	1/4	4,313.23	1/4	4,066.63	1/4	3,819.53	1/4	3,565.01	1/4	3,209.34	1/4	2,852.26
1/2		1/2		1/2		1/2	4,553.50	1/2	4,308.09	1/2	4,061.48	1/2	3,814.38	1/2	3,558.16	1/2	3,201.90	1/2	2,844.81
3/4		3/4		3/4		3/4	4,548.39	3/4	4,302.96	3/4	4,056.33	3/4	3,809.24	3/4	3,550.74	3/4	3,194.46	3/4	2,837.37
5		5		5		5	4,543.28	5	4,297.83	5	4,051.19	5	3,804.09	5	3,543.32	5	3,187.03	5	2,829.93
1/4		1/4		1/4		1/4	4,538.17	1/4	4,292.69	1/4	4,046.04	1/4	3,798.94	1/4	3,535.90	1/4	3,179.59	1/4	2,822.49
1/2		1/2		1/2		1/2	4,533.06	1/2	4,287.56	1/2	4,040.89	1/2	3,793.79	1/2	3,528.49	1/2	3,172.15	1/2	2,815.05
3/4		3/4		3/4		3/4	4,527.95	3/4	4,282.43	3/4	4,035.74	3/4	3,788.64	3/4	3,521.07	3/4	3,164.71	3/4	2,807.61
6		6		6		6	4,522.84	6	4,277.29	6	4,030.60	6	3,783.50	6	3,513.65	6	3,157.27	6	2,800.17
1/4		1/4		1/4		1/4	4,517.74	1/4	4,272.16	1/4	4,025.45	1/4	3,778.35	1/4	3,506.23	1/4	3,149.83	1/4	2,792.73
1/2		1/2		1/2		1/2	4,512.63	1/2	4,267.03	1/2	4,020.30	1/2	3,773.20	1/2	3,498.82	1/2	3,142.40	1/2	2,785.29
3/4		3/4		3/4		3/4	4,507.52	3/4	4,261.89	3/4	4,015.15	3/4	3,768.05	3/4	3,491.40	3/4	3,134.96	3/4	2,777.84
7		7		7		7	4,502.41	7	4,256.76	7	4,010.00	7	3,762.90	7	3,483.98	7	3,127.52	7	2,770.40
1/4		1/4		1/4		1/4	4,497.30	1/4	4,251.63	1/4	4,004.86	1/4	3,757.76	1/4	3,476.56	1/4	3,120.08	1/4	2,762.96
1/2		1/2		1/2		1/2	4,492.19	1/2	4,246.49	1/2	3,999.71	1/2	3,752.61	1/2	3,469.14	1/2	3,112.64	1/2	2,755.52
3/4		3/4		3/4		3/4	4,487.08	3/4	4,241.36	3/4	3,994.56	3/4	3,747.46	3/4	3,461.73	3/4	3,105.20	3/4	2,748.08
8		8		8		8	4,481.98	8	4,236.23	8	3,989.41	8	3,742.31	8	3,454.31	8	3,097.76	8	2,740.64
1/4		1/4		1/4		1/4	4,476.87	1/4	4,231.09	1/4	3,984.26	1/4	3,737.17	1/4	3,446.89	1/4	3,090.33	1/4	2,733.20
1/2		1/2		1/2		1/2	4,471.76	1/2	4,225.96	1/2	3,979.12	1/2	3,732.02	1/2	3,439.47	1/2	3,082.89	1/2	2,725.76
3/4		3/4		3/4		3/4	4,466.66	3/4	4,220.82	3/4	3,973.97	3/4	3,726.87	3/4	3,432.06	3/4	3,075.45	3/4	2,718.32
9		9		9		9	4,461.55	9	4,215.69	9	3,968.82	9	3,721.72	9	3,424.64	9	3,068.01	9	2,710.87
1/4		1/4		1/4		1/4	4,456.44	1/4	4,210.56	1/4	3,963.67	1/4	3,716.57	1/4	3,417.22	1/4	3,060.57	1/4	2,703.43
1/2		1/2		1/2		1/2	4,451.34	1/2	4,205.42	1/2	3,958.52	1/2	3,711.43	1/2	3,409.80	1/2	3,053.13	1/2	2,695.99
3/4		3/4		3/4		3/4	4,446.23	3/4	4,200.29	3/4	3,953.38	3/4	3,706.28	3/4	3,402.39	3/4	3,045.70	3/4	2,688.55
10		10		10		10	4,441.12	10	4,195.16	10	3,948.23	10	3,701.13	10	3,394.97	10	3,038.26	10	2,681.11
1/4		1/4		1/4		1/4	4,436.02	1/4	4,190.02	1/4	3,943.08	1/4	3,695.98	1/4	3,387.55	1/4	3,030.82	1/4	2,673.67
1/2		1/2		1/2		1/2	4,430.91	1/2	4,184.89	1/2	3,937.93	1/2	3,690.83	1/2	3,380.13	1/2	3,023.38	1/2	2,666.23
3/4		3/4		3/4		3/4	4,425.81	3/4	4,179.76	3/4	3,932.79	3/4	3,685.69	3/4	3,372.71	3/4	3,015.94	3/4	2,658.79
11		11		11		11	4,420.70	11	4,174.62	11	3,927.64	11	3,680.54	11	3,365.30	11	3,008.50	11	2,651.35
1/4		1/4		1/4		1/4	4,415.59	1/4	4,169.49	1/4	3,922.49	1/4	3,675.39	1/4	3,357.88	1/4	3,001.07	1/4	2,643.90
1/2		1/2		1/2		1/2	4,410.49	1/2	4,164.36	1/2	3,917.34	1/2	3,670.24	1/2	3,350.46	1/2	2,993.63	1/2	2,636.46
3/4		3/4		3/4		3/4	4,405.38	3/4	4,159.22	3/4	3,912.19	3/4	3,665.09	3/4	3,343.04	3/4	2,986.19	3/4	2,629.01

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" DEVICE
 GAUGE POINT: (HERMETIC) LOCATED 12'-07" OFF CENTERLINE AND 46'-00" FORWARD OF AFT BULKHEAD

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



BARGE "HTCO 3133"

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	2,621.57	0	2,264.05	0	1,906.54	0	1,549.03	0	1,191.51	0	834.53	0	477.04	0	119.53	0			
1/4	2,614.12	1/4	2,256.60	1/4	1,899.09	1/4	1,541.58	1/4	1,184.06	1/4	827.09	1/4	469.59	1/4	112.09	1/4			
1/2	2,606.67	1/2	2,249.16	1/2	1,891.64	1/2	1,534.13	1/2	1,176.62	1/2	819.66	1/2	462.15	1/2	104.64	1/2			
3/4	2,599.22	3/4	2,241.71	3/4	1,884.19	3/4	1,526.68	3/4	1,169.17	3/4	812.21	3/4	454.70	3/4	97.19	3/4			
1	2,591.77	1	2,234.26	1	1,876.75	1	1,519.23	1	1,161.72	1	804.76	1	447.25	1	89.74	1			
1/4	2,584.32	1/4	2,226.81	1/4	1,869.30	1/4	1,511.78	1/4	1,154.27	1/4	797.31	1/4	439.80	1/4	82.29	1/4			
1/2	2,576.88	1/2	2,219.36	1/2	1,861.85	1/2	1,504.34	1/2	1,146.82	1/2	789.86	1/2	432.35	1/2	74.85	1/2			
3/4	2,569.43	3/4	2,211.91	3/4	1,854.40	3/4	1,496.89	3/4	1,139.38	3/4	782.42	3/4	424.91	3/4	67.86	3/4			
2	2,561.98	2	2,204.47	2	1,846.95	2	1,489.44	2	1,131.93	2	774.97	2	417.46	2	60.88	2			
1/4	2,554.53	1/4	2,197.02	1/4	1,839.50	1/4	1,481.99	1/4	1,124.49	1/4	767.52	1/4	410.01	1/4	53.90	1/4			
1/2	2,547.08	1/2	2,189.57	1/2	1,832.06	1/2	1,474.54	1/2	1,117.05	1/2	760.07	1/2	402.56	1/2	46.92	1/2			
3/4	2,539.64	3/4	2,182.12	3/4	1,824.61	3/4	1,467.09	3/4	1,109.60	3/4	752.62	3/4	395.11	3/4	41.33	3/4			
3	2,532.19	3	2,174.67	3	1,817.16	3	1,459.65	3	1,102.16	3	745.17	3	387.67	3	35.74	3			
1/4	2,524.74	1/4	2,167.23	1/4	1,809.71	1/4	1,452.20	1/4	1,094.72	1/4	737.73	1/4	380.22	1/4	30.16	1/4			
1/2	2,517.29	1/2	2,159.78	1/2	1,802.26	1/2	1,444.75	1/2	1,087.28	1/2	730.28	1/2	372.77	1/2	24.57	1/2			
3/4	2,509.84	3/4	2,152.33	3/4	1,794.82	3/4	1,437.30	3/4	1,079.85	3/4	722.83	3/4	365.32	3/4	20.85	3/4			
4	2,502.39	4	2,144.88	4	1,787.37	4	1,429.85	4	1,072.41	4	715.38	4	357.87	4		4			
1/4	2,494.95	1/4	2,137.43	1/4	1,779.92	1/4	1,422.41	1/4	1,064.98	1/4	707.93	1/4	350.43	1/4		1/4			
1/2	2,487.50	1/2	2,129.98	1/2	1,772.47	1/2	1,414.96	1/2	1,057.54	1/2	700.49	1/2	342.98	1/2		1/2			
3/4	2,480.05	3/4	2,122.54	3/4	1,765.02	3/4	1,407.51	3/4	1,050.11	3/4	693.04	3/4	335.53	3/4		3/4			
5	2,472.60	5	2,115.09	5	1,757.57	5	1,400.06	5	1,042.67	5	685.59	5	328.08	5		5			
1/4	2,465.15	1/4	2,107.64	1/4	1,750.13	1/4	1,392.61	1/4	1,035.24	1/4	678.14	1/4	320.63	1/4		1/4			
1/2	2,457.71	1/2	2,100.19	1/2	1,742.68	1/2	1,385.16	1/2	1,027.81	1/2	670.69	1/2	313.18	1/2		1/2			
3/4	2,450.26	3/4	2,092.74	3/4	1,735.23	3/4	1,377.72	3/4	1,020.37	3/4	663.25	3/4	305.74	3/4		3/4			
6	2,442.81	6	2,085.30	6	1,727.78	6	1,370.27	6	1,012.94	6	655.80	6	298.29	6		6			
1/4	2,435.36	1/4	2,077.85	1/4	1,720.33	1/4	1,362.82	1/4	1,005.51	1/4	648.35	1/4	290.84	1/4		1/4			
1/2	2,427.91	1/2	2,070.40	1/2	1,712.89	1/2	1,355.37	1/2	998.07	1/2	640.90	1/2	283.39	1/2		1/2			
3/4	2,420.46	3/4	2,062.95	3/4	1,705.44	3/4	1,347.92	3/4	990.64	3/4	633.45	3/4	275.94	3/4		3/4			
7	2,413.02	7	2,055.50	7	1,697.99	7	1,340.48	7	983.21	7	626.00	7	268.50	7		7			
1/4	2,405.57	1/4	2,048.05	1/4	1,690.54	1/4	1,333.03	1/4	975.78	1/4	618.56	1/4	261.05	1/4		1/4			
1/2	2,398.12	1/2	2,040.61	1/2	1,683.09	1/2	1,325.58	1/2	968.34	1/2	611.11	1/2	253.60	1/2		1/2			
3/4	2,390.67	3/4	2,033.16	3/4	1,675.64	3/4	1,318.13	3/4	960.91	3/4	603.66	3/4	246.15	3/4		3/4			
8	2,383.22	8	2,025.71	8	1,668.20	8	1,310.68	8	953.48	8	596.21	8	238.70	8		8			
1/4	2,375.78	1/4	2,018.26	1/4	1,660.75	1/4	1,303.23	1/4	946.04	1/4	588.76	1/4	231.26	1/4		1/4			
1/2	2,368.33	1/2	2,010.81	1/2	1,653.30	1/2	1,295.79	1/2	938.61	1/2	581.32	1/2	223.81	1/2		1/2			
3/4	2,360.88	3/4	2,003.37	3/4	1,645.85	3/4	1,288.34	3/4	931.18	3/4	573.87	3/4	216.36	3/4		3/4			
9	2,353.43	9	1,995.92	9	1,638.40	9	1,280.89	9	923.74	9	566.42	9	208.91	9		9			
1/4	2,345.98	1/4	1,988.47	1/4	1,630.96	1/4	1,273.44	1/4	916.31	1/4	558.97	1/4	201.46	1/4		1/4			
1/2	2,338.53	1/2	1,981.02	1/2	1,623.51	1/2	1,265.99	1/2	908.88	1/2	551.52	1/2	194.02	1/2		1/2			
3/4	2,331.09	3/4	1,973.57	3/4	1,616.06	3/4	1,258.55	3/4	901.44	3/4	544.08	3/4	186.57	3/4		3/4			
10	2,323.64	10	1,966.12	10	1,608.61	10	1,251.10	10	894.01	10	536.63	10	179.12	10		10			
1/4	2,316.19	1/4	1,958.68	1/4	1,601.16	1/4	1,243.65	1/4	886.58	1/4	529.18	1/4	171.67	1/4		1/4			
1/2	2,308.74	1/2	1,951.23	1/2	1,593.71	1/2	1,236.20	1/2	879.14	1/2	521.73	1/2	164.22	1/2		1/2			
3/4	2,301.29	3/4	1,943.78	3/4	1,586.27	3/4	1,228.75	3/4	871.71	3/4	514.28	3/4	156.77	3/4		3/4			
11	2,293.85	11	1,936.33	11	1,578.82	11	1,221.30	11	864.28	11	506.84	11	149.33	11		11			
1/4	2,286.40	1/4	1,928.88	1/4	1,571.37	1/4	1,213.86	1/4	856.85	1/4	499.39	1/4	141.88	1/4		1/4			
1/2	2,278.95	1/2	1,921.44	1/2	1,563.92	1/2	1,206.41	1/2	849.41	1/2	491.94	1/2	134.43	1/2		1/2			
3/4	2,271.50	3/4	1,913.99	3/4	1,556.47	3/4	1,198.96	3/4	841.97	3/4	484.49	3/4	126.98	3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/02/2014 CL
RECALCULATED: 07/18/2019 CL
REPRINTED: 07/18/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2019

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