



BARGE "HTCO 3060"

ULLAGE (HERMETIC)

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

(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 3'-11 3/4"

LENGTH BETWEEN DRAFT MARKS: 234'-09"

August 8, 2019

**PRECISION MEASUREMENT
& ANALYSIS, INC.**

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HTCO 3060"

1 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03"

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	4,720.47	0	4,363.06	0	4,005.66	0	3,648.25	0	3,290.83	0	2,933.43
1/4		1/4		1/4		1/4		1/4	4,713.03	1/4	4,355.62	1/4	3,998.21	1/4	3,640.80	1/4	3,283.39	1/4	2,925.98
1/2		1/2		1/2		1/2		1/2	5,046.99	1/2	4,705.58	1/2	4,348.17	1/2	3,990.77	1/2	3,633.36	1/2	3,275.94
3/4		3/4		3/4		3/4		3/4	5,042.75	3/4	4,698.13	3/4	4,340.72	3/4	3,983.32	3/4	3,625.91	3/4	3,268.50
1		1		1		1		1	5,037.38	1	4,690.69	1	4,333.28	1	3,975.87	1	3,618.46	1	3,261.05
1/4		1/4		1/4		1/4		1/4	5,032.00	1/4	4,683.24	1/4	4,325.83	1/4	3,968.43	1/4	3,611.02	1/4	3,253.61
1/2		1/2		1/2		1/2		1/2	5,026.63	1/2	4,675.80	1/2	4,318.39	1/2	3,960.98	1/2	3,603.57	1/2	3,246.16
3/4		3/4		3/4		3/4		3/4	5,021.25	3/4	4,668.35	3/4	4,310.94	3/4	3,953.53	3/4	3,596.12	3/4	3,238.72
2		2		2		2		2	5,014.74	2	4,660.90	2	4,303.50	2	3,946.09	2	3,588.68	2	3,231.27
1/4		1/4		1/4		1/4		1/4	5,008.24	1/4	4,653.46	1/4	4,296.05	1/4	3,938.64	1/4	3,581.23	1/4	3,223.82
1/2		1/2		1/2		1/2		1/2	5,001.73	1/2	4,646.01	1/2	4,288.61	1/2	3,931.20	1/2	3,573.79	1/2	3,216.38
3/4		3/4		3/4		3/4		3/4	4,995.22	3/4	4,638.56	3/4	4,281.16	3/4	3,923.75	3/4	3,566.34	3/4	3,208.93
3		3		3		3		3	4,987.96	3	4,631.12	3	4,273.71	3	3,916.30	3	3,558.90	3	3,201.48
1/4		1/4		1/4		1/4		1/4	4,980.71	1/4	4,623.67	1/4	4,266.27	1/4	3,908.86	1/4	3,551.45	1/4	3,194.04
1/2		1/2		1/2		1/2		1/2	4,973.45	1/2	4,616.23	1/2	4,258.82	1/2	3,901.41	1/2	3,544.01	1/2	3,186.59
3/4		3/4		3/4		3/4		3/4	4,966.19	3/4	4,608.78	3/4	4,251.37	3/4	3,893.96	3/4	3,536.56	3/4	3,179.15
4		4		4		4		4	4,958.74	4	4,601.34	4	4,243.93	4	3,886.52	4	3,529.11	4	3,171.70
1/4		1/4		1/4		1/4		1/4	4,951.30	1/4	4,593.89	1/4	4,236.48	1/4	3,879.07	1/4	3,521.67	1/4	3,164.25
1/2		1/2		1/2		1/2		1/2	4,943.85	1/2	4,586.45	1/2	4,229.04	1/2	3,871.63	1/2	3,514.22	1/2	3,156.81
3/4		3/4		3/4		3/4		3/4	4,936.40	3/4	4,579.00	3/4	4,221.59	3/4	3,864.18	3/4	3,506.77	3/4	3,149.36
5		5		5		5		5	4,928.96	5	4,571.55	5	4,214.14	5	3,856.74	5	3,499.33	5	3,141.91
1/4		1/4		1/4		1/4		1/4	4,921.51	1/4	4,564.11	1/4	4,206.70	1/4	3,849.29	1/4	3,491.88	1/4	3,134.47
1/2		1/2		1/2		1/2		1/2	4,914.07	1/2	4,556.66	1/2	4,199.25	1/2	3,841.85	1/2	3,484.44	1/2	3,127.02
3/4		3/4		3/4		3/4		3/4	4,906.62	3/4	4,549.21	3/4	4,191.80	3/4	3,834.40	3/4	3,476.99	3/4	3,119.58
6		6		6		6		6	4,899.18	6	4,541.77	6	4,184.36	6	3,826.95	6	3,469.54	6	3,112.13
1/4		1/4		1/4		1/4		1/4	4,891.73	1/4	4,534.32	1/4	4,176.91	1/4	3,819.51	1/4	3,462.10	1/4	3,104.69
1/2		1/2		1/2		1/2		1/2	4,884.29	1/2	4,526.88	1/2	4,169.47	1/2	3,812.06	1/2	3,454.65	1/2	3,097.24
3/4		3/4		3/4		3/4		3/4	4,876.84	3/4	4,519.43	3/4	4,162.02	3/4	3,804.61	3/4	3,447.20	3/4	3,089.80
7		7		7		7		7	4,869.39	7	4,511.98	7	4,154.58	7	3,797.17	7	3,439.76	7	3,082.35
1/4		1/4		1/4		1/4		1/4	4,861.95	1/4	4,504.54	1/4	4,147.13	1/4	3,789.72	1/4	3,432.31	1/4	3,074.90
1/2		1/2		1/2		1/2		1/2	4,854.50	1/2	4,497.09	1/2	4,139.69	1/2	3,782.28	1/2	3,424.86	1/2	3,067.46
3/4		3/4		3/4		3/4		3/4	4,847.05	3/4	4,489.64	3/4	4,132.24	3/4	3,774.83	3/4	3,417.42	3/4	3,060.01
8		8		8		8		8	4,839.61	8	4,482.20	8	4,124.79	8	3,767.38	8	3,409.97	8	3,052.56
1/4		1/4		1/4		1/4		1/4	4,832.16	1/4	4,474.75	1/4	4,117.35	1/4	3,759.94	1/4	3,402.53	1/4	3,045.12
1/2		1/2		1/2		1/2		1/2	4,824.72	1/2	4,467.31	1/2	4,109.90	1/2	3,752.49	1/2	3,395.08	1/2	3,037.67
3/4		3/4		3/4		3/4		3/4	4,817.27	3/4	4,459.86	3/4	4,102.45	3/4	3,745.04	3/4	3,387.64	3/4	3,030.23
9		9		9		9		9	4,809.82	9	4,452.42	9	4,095.01	9	3,737.60	9	3,380.19	9	3,022.78
1/4		1/4		1/4		1/4		1/4	4,802.38	1/4	4,444.97	1/4	4,087.56	1/4	3,730.15	1/4	3,372.74	1/4	3,015.33
1/2		1/2		1/2		1/2		1/2	4,794.93	1/2	4,437.53	1/2	4,080.12	1/2	3,722.71	1/2	3,365.30	1/2	3,007.89
3/4		3/4		3/4		3/4		3/4	4,787.48	3/4	4,430.08	3/4	4,072.67	3/4	3,715.26	3/4	3,357.85	3/4	3,000.44
10		10		10		10		10	4,780.04	10	4,422.63	10	4,065.22	10	3,707.82	10	3,350.40	10	2,992.99
1/4		1/4		1/4		1/4		1/4	4,772.59	1/4	4,415.19	1/4	4,057.78	1/4	3,700.37	1/4	3,342.96	1/4	2,985.55
1/2		1/2		1/2		1/2		1/2	4,765.15	1/2	4,407.74	1/2	4,050.33	1/2	3,692.93	1/2	3,335.51	1/2	2,978.10
3/4		3/4		3/4		3/4		3/4	4,757.70	3/4	4,400.29	3/4	4,042.88	3/4	3,685.48	3/4	3,328.07	3/4	2,970.66
11		11		11		11		11	4,750.26	11	4,392.85	11	4,035.44	11	3,678.03	11	3,320.62	11	2,963.21
1/4		1/4		1/4		1/4		1/4	4,742.81	1/4	4,385.40	1/4	4,027.99	1/4	3,670.59	1/4	3,313.17	1/4	2,955.77
1/2		1/2		1/2		1/2		1/2	4,735.37	1/2	4,377.96	1/2	4,020.55	1/2	3,663.14	1/2	3,305.73	1/2	2,948.32
3/4		3/4		3/4		3/4		3/4	4,727.92	3/4	4,370.51	3/4	4,013.10	3/4	3,655.69	3/4	3,298.28	3/4	2,940.88

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'-09" OFF CENTERLINE AND 46'-00" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
 & ANALYSIS, INC.
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BARGE "HTCO 3060"

1 PORT ULLAGE TABLE HERMETIC GAUGE HEIGHT 17'-03"

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	2,576.02	0	2,218.61	0	1,861.20	0	1,503.79	0	1,146.39	0	788.98	0	430.50	0	92.68	0			
1/4	2,568.57	1/4	2,211.17	1/4	1,853.76	1/4	1,496.35	1/4	1,138.94	1/4	781.53	1/4	423.04	1/4	86.21	1/4			
1/2	2,561.13	1/2	2,203.72	1/2	1,846.31	1/2	1,488.90	1/2	1,131.50	1/2	774.09	1/2	415.59	1/2	79.75	1/2			
3/4	2,553.68	3/4	2,196.28	3/4	1,838.87	3/4	1,481.46	3/4	1,124.05	3/4	766.64	3/4	408.14	3/4	73.29	3/4			
1	2,546.23	1	2,188.83	1	1,831.42	1	1,474.01	1	1,116.60	1	759.19	1	400.75	1	66.89	1			
1/4	2,538.79	1/4	2,181.38	1/4	1,823.97	1/4	1,466.57	1/4	1,109.16	1/4	751.75	1/4	393.36	1/4	60.48	1/4			
1/2	2,531.34	1/2	2,173.94	1/2	1,816.53	1/2	1,459.12	1/2	1,101.71	1/2	744.30	1/2	385.97	1/2	54.08	1/2			
3/4	2,523.90	3/4	2,166.49	3/4	1,809.08	3/4	1,451.68	3/4	1,094.27	3/4	736.86	3/4	378.58	3/4	47.68	3/4			
2	2,516.45	2	2,159.04	2	1,801.63	2	1,444.23	2	1,086.82	2	729.41	2	371.25	2	42.42	2			
1/4	2,509.01	1/4	2,151.60	1/4	1,794.19	1/4	1,436.78	1/4	1,079.37	1/4	721.97	1/4	363.92	1/4	37.16	1/4			
1/2	2,501.56	1/2	2,144.15	1/2	1,786.74	1/2	1,429.34	1/2	1,071.93	1/2	714.52	1/2	356.60	1/2	31.90	1/2			
3/4	2,494.12	3/4	2,136.71	3/4	1,779.30	3/4	1,421.89	3/4	1,064.48	3/4	707.08	3/4	349.27	3/4	26.64	3/4			
3	2,486.67	3	2,129.26	3	1,771.85	3	1,414.44	3	1,057.03	3	699.63	3	342.00	3	22.83	3			
1/4	2,479.22	1/4	2,121.81	1/4	1,764.41	1/4	1,407.00	1/4	1,049.59	1/4	692.18	1/4	334.74	1/4		1/4			
1/2	2,471.78	1/2	2,114.37	1/2	1,756.96	1/2	1,399.55	1/2	1,042.14	1/2	684.74	1/2	327.47	1/2		1/2			
3/4	2,464.33	3/4	2,106.92	3/4	1,749.52	3/4	1,392.11	3/4	1,034.70	3/4	677.29	3/4	320.21	3/4		3/4			
4	2,456.88	4	2,099.47	4	1,742.07	4	1,384.66	4	1,027.25	4	669.84	4	313.00	4		4			
1/4	2,449.44	1/4	2,092.03	1/4	1,734.62	1/4	1,377.21	1/4	1,019.81	1/4	662.40	1/4	305.80	1/4		1/4			
1/2	2,441.99	1/2	2,084.58	1/2	1,727.18	1/2	1,369.77	1/2	1,012.36	1/2	654.95	1/2	298.59	1/2		1/2			
3/4	2,434.55	3/4	2,077.14	3/4	1,719.73	3/4	1,362.32	3/4	1,004.92	3/4	647.51	3/4	291.39	3/4		3/4			
5	2,427.10	5	2,069.69	5	1,712.28	5	1,354.87	5	997.47	5	640.07	5	284.25	5		5			
1/4	2,419.65	1/4	2,062.25	1/4	1,704.84	1/4	1,347.43	1/4	990.02	1/4	632.63	1/4	277.11	1/4		1/4			
1/2	2,412.21	1/2	2,054.80	1/2	1,697.39	1/2	1,339.98	1/2	982.58	1/2	625.19	1/2	269.97	1/2		1/2			
3/4	2,404.76	3/4	2,047.36	3/4	1,689.95	3/4	1,332.54	3/4	975.13	3/4	617.75	3/4	262.83	3/4		3/4			
6	2,397.31	6	2,039.91	6	1,682.50	6	1,325.09	6	967.68	6	610.30	6	255.75	6		6			
1/4	2,389.87	1/4	2,032.46	1/4	1,675.05	1/4	1,317.65	1/4	960.24	1/4	602.84	1/4	248.68	1/4		1/4			
1/2	2,382.42	1/2	2,025.02	1/2	1,667.61	1/2	1,310.20	1/2	952.79	1/2	595.39	1/2	241.60	1/2		1/2			
3/4	2,374.98	3/4	2,017.57	3/4	1,660.16	3/4	1,302.76	3/4	945.35	3/4	587.94	3/4	234.53	3/4		3/4			
7	2,367.53	7	2,010.12	7	1,652.71	7	1,295.31	7	937.90	7	580.49	7	227.51	7		7			
1/4	2,360.09	1/4	2,002.68	1/4	1,645.27	1/4	1,287.86	1/4	930.45	1/4	573.05	1/4	220.50	1/4		1/4			
1/2	2,352.64	1/2	1,995.23	1/2	1,637.82	1/2	1,280.42	1/2	923.01	1/2	565.60	1/2	213.48	1/2		1/2			
3/4	2,345.20	3/4	1,987.79	3/4	1,630.38	3/4	1,272.97	3/4	915.56	3/4	558.16	3/4	206.47	3/4		3/4			
8	2,337.75	8	1,980.34	8	1,622.93	8	1,265.52	8	908.11	8	550.71	8	199.52	8		8			
1/4	2,330.30	1/4	1,972.89	1/4	1,615.49	1/4	1,258.08	1/4	900.67	1/4	543.26	1/4	192.56	1/4		1/4			
1/2	2,322.86	1/2	1,965.45	1/2	1,608.04	1/2	1,250.63	1/2	893.22	1/2	535.82	1/2	185.61	1/2		1/2			
3/4	2,315.41	3/4	1,958.00	3/4	1,600.60	3/4	1,243.19	3/4	885.78	3/4	528.37	3/4	178.66	3/4		3/4			
9	2,307.96	9	1,950.55	9	1,593.15	9	1,235.74	9	878.33	9	520.86	9	171.89	9		9			
1/4	2,300.52	1/4	1,943.11	1/4	1,585.70	1/4	1,228.29	1/4	870.89	1/4	513.34	1/4	165.12	1/4		1/4			
1/2	2,293.07	1/2	1,935.66	1/2	1,578.26	1/2	1,220.85	1/2	863.44	1/2	505.83	1/2	158.36	1/2		1/2			
3/4	2,285.63	3/4	1,928.22	3/4	1,570.81	3/4	1,213.40	3/4	856.00	3/4	498.32	3/4	151.59	3/4		3/4			
10	2,278.18	10	1,920.77	10	1,563.36	10	1,205.95	10	848.55	10	490.74	10	145.00	10		10			
1/4	2,270.73	1/4	1,913.33	1/4	1,555.92	1/4	1,198.51	1/4	841.10	1/4	483.16	1/4	138.41	1/4		1/4			
1/2	2,263.29	1/2	1,905.88	1/2	1,548.47	1/2	1,191.06	1/2	833.66	1/2	475.59	1/2	131.83	1/2		1/2			
3/4	2,255.84	3/4	1,898.44	3/4	1,541.03	3/4	1,183.62	3/4	826.21	3/4	468.01	3/4	125.24	3/4		3/4			
11	2,248.39	11	1,890.99	11	1,533.58	11	1,176.17	11	818.76	11	460.49	11	118.71	11		11			
1/4	2,240.95	1/4	1,883.54	1/4	1,526.13	1/4	1,168.73	1/4	811.32	1/4	452.98	1/4	112.19	1/4		1/4			
1/2	2,233.50	1/2	1,876.10	1/2	1,518.69	1/2	1,161.28	1/2	803.87	1/2	445.46	1/2	105.66	1/2		1/2			
3/4	2,226.06	3/4	1,868.65	3/4	1,511.24	3/4	1,153.84	3/4	796.43	3/4	437.95	3/4	99.14	3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/19/2007 INS
RECALCULATED: 08/08/2019 CL
REPRINTED: 08/08/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2019

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



BARGE "HTCO 3060"

1 STBD ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-02 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	4,713.03	0	4,355.62	0	3,998.21	0	3,640.80	0	3,283.39	0	2,925.98
1/4		1/4		1/4		1/4	5,046.99	1/4	4,705.58	1/4	4,348.17	1/4	3,990.77	1/4	3,633.36	1/4	3,275.94	1/4	2,918.54
1/2		1/2		1/2		1/2	5,042.75	1/2	4,698.13	1/2	4,340.72	1/2	3,983.32	1/2	3,625.91	1/2	3,268.50	1/2	2,911.09
3/4		3/4		3/4		3/4	5,037.38	3/4	4,690.69	3/4	4,333.28	3/4	3,975.87	3/4	3,618.46	3/4	3,261.05	3/4	2,903.64
1	1	1	1	1	1	1	5,032.00	1	4,683.24	1	4,325.83	1	3,968.43	1	3,611.02	1	3,253.61	1	2,896.20
1/4		1/4		1/4		1/4	5,026.63	1/4	4,675.80	1/4	4,318.39	1/4	3,960.98	1/4	3,603.57	1/4	3,246.16	1/4	2,888.75
1/2		1/2		1/2		1/2	5,021.25	1/2	4,668.35	1/2	4,310.94	1/2	3,953.53	1/2	3,596.12	1/2	3,238.72	1/2	2,881.31
3/4		3/4		3/4		3/4	5,014.74	3/4	4,660.90	3/4	4,303.50	3/4	3,946.09	3/4	3,588.68	3/4	3,231.27	3/4	2,873.86
2	2	2	2	2	2	2	5,008.24	2	4,653.46	2	4,296.05	2	3,938.64	2	3,581.23	2	3,223.82	2	2,866.41
1/4		1/4		1/4		1/4	5,001.73	1/4	4,646.01	1/4	4,288.61	1/4	3,931.20	1/4	3,573.79	1/4	3,216.38	1/4	2,858.97
1/2		1/2		1/2		1/2	4,995.22	1/2	4,638.56	1/2	4,281.16	1/2	3,923.75	1/2	3,566.34	1/2	3,208.93	1/2	2,851.52
3/4		3/4		3/4		3/4	4,987.96	3/4	4,631.12	3/4	4,273.71	3/4	3,916.30	3/4	3,558.90	3/4	3,201.48	3/4	2,844.07
3	3	3	3	3	3	3	4,980.71	3	4,623.67	3	4,266.27	3	3,908.86	3	3,551.45	3	3,194.04	3	2,836.63
1/4		1/4		1/4		1/4	4,973.45	1/4	4,616.23	1/4	4,258.82	1/4	3,901.41	1/4	3,544.01	1/4	3,186.59	1/4	2,829.18
1/2		1/2		1/2		1/2	4,966.19	1/2	4,608.78	1/2	4,251.37	1/2	3,893.96	1/2	3,536.56	1/2	3,179.15	1/2	2,821.74
3/4		3/4		3/4		3/4	4,958.74	3/4	4,601.34	3/4	4,243.93	3/4	3,886.52	3/4	3,529.11	3/4	3,171.70	3/4	2,814.29
4	4	4	4	4	4	4	4,951.30	4	4,593.89	4	4,236.48	4	3,879.07	4	3,521.67	4	3,164.25	4	2,806.85
1/4		1/4		1/4		1/4	4,943.85	1/4	4,586.45	1/4	4,229.04	1/4	3,871.63	1/4	3,514.22	1/4	3,156.81	1/4	2,799.40
1/2		1/2		1/2		1/2	4,936.40	1/2	4,579.00	1/2	4,221.59	1/2	3,864.18	1/2	3,506.77	1/2	3,149.36	1/2	2,791.96
3/4		3/4		3/4		3/4	4,928.96	3/4	4,571.55	3/4	4,214.14	3/4	3,856.74	3/4	3,499.33	3/4	3,141.91	3/4	2,784.51
5	5	5	5	5	5	5	4,921.51	5	4,564.11	5	4,206.70	5	3,849.29	5	3,491.88	5	3,134.47	5	2,777.06
1/4		1/4		1/4		1/4	4,914.07	1/4	4,556.66	1/4	4,199.25	1/4	3,841.85	1/4	3,484.44	1/4	3,127.02	1/4	2,769.62
1/2		1/2		1/2		1/2	4,906.62	1/2	4,549.21	1/2	4,191.80	1/2	3,834.40	1/2	3,476.99	1/2	3,119.58	1/2	2,762.17
3/4		3/4		3/4		3/4	4,899.18	3/4	4,541.77	3/4	4,184.36	3/4	3,826.95	3/4	3,469.54	3/4	3,112.13	3/4	2,754.72
6	6	6	6	6	6	6	4,891.73	6	4,534.32	6	4,176.91	6	3,819.51	6	3,462.10	6	3,104.69	6	2,747.28
1/4		1/4		1/4		1/4	4,884.29	1/4	4,526.88	1/4	4,169.47	1/4	3,812.06	1/4	3,454.65	1/4	3,097.24	1/4	2,739.83
1/2		1/2		1/2		1/2	4,876.84	1/2	4,519.43	1/2	4,162.02	1/2	3,804.61	1/2	3,447.20	1/2	3,089.80	1/2	2,732.39
3/4		3/4		3/4		3/4	4,869.39	3/4	4,511.98	3/4	4,154.58	3/4	3,797.17	3/4	3,439.76	3/4	3,082.35	3/4	2,724.94
7	7	7	7	7	7	7	4,861.95	7	4,504.54	7	4,147.13	7	3,789.72	7	3,432.31	7	3,074.90	7	2,717.49
1/4		1/4		1/4		1/4	4,854.50	1/4	4,497.09	1/4	4,139.69	1/4	3,782.28	1/4	3,424.86	1/4	3,067.46	1/4	2,710.05
1/2		1/2		1/2		1/2	4,847.05	1/2	4,489.64	1/2	4,132.24	1/2	3,774.83	1/2	3,417.42	1/2	3,060.01	1/2	2,702.60
3/4		3/4		3/4		3/4	4,839.61	3/4	4,482.20	3/4	4,124.79	3/4	3,767.38	3/4	3,409.97	3/4	3,052.56	3/4	2,695.15
8	8	8	8	8	8	8	4,832.16	8	4,474.75	8	4,117.35	8	3,759.94	8	3,402.53	8	3,045.12	8	2,687.71
1/4		1/4		1/4		1/4	4,824.72	1/4	4,467.31	1/4	4,109.90	1/4	3,752.49	1/4	3,395.08	1/4	3,037.67	1/4	2,680.26
1/2		1/2		1/2		1/2	4,817.27	1/2	4,459.86	1/2	4,102.45	1/2	3,745.04	1/2	3,387.64	1/2	3,030.23	1/2	2,672.82
3/4		3/4		3/4		3/4	4,809.82	3/4	4,452.42	3/4	4,095.01	3/4	3,737.60	3/4	3,380.19	3/4	3,022.78	3/4	2,665.37
9	9	9	9	9	9	9	4,802.38	9	4,444.97	9	4,087.56	9	3,730.15	9	3,372.74	9	3,015.33	9	2,657.93
1/4		1/4		1/4		1/4	4,794.93	1/4	4,437.53	1/4	4,080.12	1/4	3,722.71	1/4	3,365.30	1/4	3,007.89	1/4	2,650.48
1/2		1/2		1/2		1/2	4,787.48	1/2	4,430.08	1/2	4,072.67	1/2	3,715.26	1/2	3,357.85	1/2	3,000.44	1/2	2,643.04
3/4		3/4		3/4		3/4	4,780.04	3/4	4,422.63	3/4	4,065.22	3/4	3,707.82	3/4	3,350.40	3/4	2,992.99	3/4	2,635.59
10	10	10	10	10	10	10	4,772.59	10	4,415.19	10	4,057.78	10	3,700.37	10	3,342.96	10	2,985.55	10	2,628.14
1/4		1/4		1/4		1/4	4,765.15	1/4	4,407.74	1/4	4,050.33	1/4	3,692.93	1/4	3,335.51	1/4	2,978.10	1/4	2,620.70
1/2		1/2		1/2		1/2	4,757.70	1/2	4,400.29	1/2	4,042.88	1/2	3,685.48	1/2	3,328.07	1/2	2,970.66	1/2	2,613.25
3/4		3/4		3/4		3/4	4,750.26	3/4	4,392.85	3/4	4,035.44	3/4	3,678.03	3/4	3,320.62	3/4	2,963.21	3/4	2,605.80
11	11	11	11	11	11	11	4,742.81	11	4,385.40	11	4,027.99	11	3,670.59	11	3,313.17	11	2,955.77	11	2,598.36
1/4		1/4		1/4		1/4	4,735.37	1/4	4,377.96	1/4	4,020.55	1/4	3,663.14	1/4	3,305.73	1/4	2,948.32	1/4	2,590.91
1/2		1/2		1/2		1/2	4,727.92	1/2	4,370.51	1/2	4,013.10	1/2	3,655.69	1/2	3,298.28	1/2	2,940.88	1/2	2,583.47
3/4		3/4		3/4		3/4	4,720.47	3/4	4,363.06	3/4	4,005.66	3/4	3,648.25	3/4	3,290.83	3/4	2,933.43	3/4	2,576.02

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'-09" 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 3060"

1 STBD

ULLAGE TABLE
HERMETIC

GAUGE HEIGHT 17'-02 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	2,568.57	0	2,211.17	0	1,853.76	0	1,496.35	0	1,138.94	0	781.53	0	423.04	0	86.21	0			
1/4	2,561.13	1/4	2,203.72	1/4	1,846.31	1/4	1,488.90	1/4	1,131.50	1/4	774.09	1/4	415.59	1/4	79.75	1/4			
1/2	2,553.68	1/2	2,196.28	1/2	1,838.87	1/2	1,481.46	1/2	1,124.05	1/2	766.64	1/2	408.14	1/2	73.29	1/2			
3/4	2,546.23	3/4	2,188.83	3/4	1,831.42	3/4	1,474.01	3/4	1,116.60	3/4	759.19	3/4	400.75	3/4	66.89	3/4			
1	2,538.79	1	2,181.38	1	1,823.97	1	1,466.57	1	1,109.16	1	751.75	1	393.36	1	60.48	1			
1/4	2,531.34	1/4	2,173.94	1/4	1,816.53	1/4	1,459.12	1/4	1,101.71	1/4	744.30	1/4	385.97	1/4	54.08	1/4			
1/2	2,523.90	1/2	2,166.49	1/2	1,809.08	1/2	1,451.68	1/2	1,094.27	1/2	736.86	1/2	378.58	1/2	47.68	1/2			
3/4	2,516.45	3/4	2,159.04	3/4	1,801.63	3/4	1,444.23	3/4	1,086.82	3/4	729.41	3/4	371.25	3/4	42.42	3/4			
2	2,509.01	2	2,151.60	2	1,794.19	2	1,436.78	2	1,079.37	2	721.97	2	363.92	2	37.16	2			
1/4	2,501.56	1/4	2,144.15	1/4	1,786.74	1/4	1,429.34	1/4	1,071.93	1/4	714.52	1/4	356.60	1/4	31.90	1/4			
1/2	2,494.12	1/2	2,136.71	1/2	1,779.30	1/2	1,421.89	1/2	1,064.48	1/2	707.08	1/2	349.27	1/2	26.64	1/2			
3/4	2,486.67	3/4	2,129.26	3/4	1,771.85	3/4	1,414.44	3/4	1,057.03	3/4	699.63	3/4	342.00	3/4	22.83	3/4			
3	2,479.22	3	2,121.81	3	1,764.41	3	1,407.00	3	1,049.59	3	692.18	3	334.74	3		3			
1/4	2,471.78	1/4	2,114.37	1/4	1,756.96	1/4	1,399.55	1/4	1,042.14	1/4	684.74	1/4	327.47	1/4		1/4			
1/2	2,464.33	1/2	2,106.92	1/2	1,749.52	1/2	1,392.11	1/2	1,034.70	1/2	677.29	1/2	320.21	1/2		1/2			
3/4	2,456.88	3/4	2,099.47	3/4	1,742.07	3/4	1,384.66	3/4	1,027.25	3/4	669.84	3/4	313.00	3/4		3/4			
4	2,449.44	4	2,092.03	4	1,734.62	4	1,377.21	4	1,019.81	4	662.40	4	305.80	4		4			
1/4	2,441.99	1/4	2,084.58	1/4	1,727.18	1/4	1,369.77	1/4	1,012.36	1/4	654.95	1/4	298.59	1/4		1/4			
1/2	2,434.55	1/2	2,077.14	1/2	1,719.73	1/2	1,362.32	1/2	1,004.92	1/2	647.51	1/2	291.39	1/2		1/2			
3/4	2,427.10	3/4	2,069.69	3/4	1,712.28	3/4	1,354.87	3/4	997.47	3/4	640.07	3/4	284.25	3/4		3/4			
5	2,419.65	5	2,062.25	5	1,704.84	5	1,347.43	5	990.02	5	632.63	5	277.11	5		5			
1/4	2,412.21	1/4	2,054.80	1/4	1,697.39	1/4	1,339.98	1/4	982.58	1/4	625.19	1/4	269.97	1/4		1/4			
1/2	2,404.76	1/2	2,047.36	1/2	1,689.95	1/2	1,332.54	1/2	975.13	1/2	617.75	1/2	262.83	1/2		1/2			
3/4	2,397.31	3/4	2,039.91	3/4	1,682.50	3/4	1,325.09	3/4	967.68	3/4	610.30	3/4	255.75	3/4		3/4			
6	2,389.87	6	2,032.46	6	1,675.05	6	1,317.65	6	960.24	6	602.84	6	248.68	6		6			
1/4	2,382.42	1/4	2,025.02	1/4	1,667.61	1/4	1,310.20	1/4	952.79	1/4	595.39	1/4	241.60	1/4		1/4			
1/2	2,374.98	1/2	2,017.57	1/2	1,660.16	1/2	1,302.76	1/2	945.35	1/2	587.94	1/2	234.53	1/2		1/2			
3/4	2,367.53	3/4	2,010.12	3/4	1,652.71	3/4	1,295.31	3/4	937.90	3/4	580.49	3/4	227.51	3/4		3/4			
7	2,360.09	7	2,002.68	7	1,645.27	7	1,287.86	7	930.45	7	573.05	7	220.50	7		7			
1/4	2,352.64	1/4	1,995.23	1/4	1,637.82	1/4	1,280.42	1/4	923.01	1/4	565.60	1/4	213.48	1/4		1/4			
1/2	2,345.20	1/2	1,987.79	1/2	1,630.38	1/2	1,272.97	1/2	915.56	1/2	558.16	1/2	206.47	1/2		1/2			
3/4	2,337.75	3/4	1,980.34	3/4	1,622.93	3/4	1,265.52	3/4	908.11	3/4	550.71	3/4	199.52	3/4		3/4			
8	2,330.30	8	1,972.89	8	1,615.49	8	1,258.08	8	900.67	8	543.26	8	192.56	8		8			
1/4	2,322.86	1/4	1,965.45	1/4	1,608.04	1/4	1,250.63	1/4	893.22	1/4	535.82	1/4	185.61	1/4		1/4			
1/2	2,315.41	1/2	1,958.00	1/2	1,600.60	1/2	1,243.19	1/2	885.78	1/2	528.37	1/2	178.66	1/2		1/2			
3/4	2,307.96	3/4	1,950.55	3/4	1,593.15	3/4	1,235.74	3/4	878.33	3/4	520.86	3/4	171.89	3/4		3/4			
9	2,300.52	9	1,943.11	9	1,585.70	9	1,228.29	9	870.89	9	513.34	9	165.12	9		9			
1/4	2,293.07	1/4	1,935.66	1/4	1,578.26	1/4	1,220.85	1/4	863.44	1/4	505.83	1/4	158.36	1/4		1/4			
1/2	2,285.63	1/2	1,928.22	1/2	1,570.81	1/2	1,213.40	1/2	856.00	1/2	498.32	1/2	151.59	1/2		1/2			
3/4	2,278.18	3/4	1,920.77	3/4	1,563.36	3/4	1,205.95	3/4	848.55	3/4	490.74	3/4	145.00	3/4		3/4			
10	2,270.73	10	1,913.33	10	1,555.92	10	1,198.51	10	841.10	10	483.16	10	138.41	10		10			
1/4	2,263.29	1/4	1,905.88	1/4	1,548.47	1/4	1,191.06	1/4	833.66	1/4	475.59	1/4	131.83	1/4		1/4			
1/2	2,255.84	1/2	1,898.44	1/2	1,541.03	1/2	1,183.62	1/2	826.21	1/2	468.01	1/2	125.24	1/2		1/2			
3/4	2,248.39	3/4	1,890.99	3/4	1,533.58	3/4	1,176.17	3/4	818.76	3/4	460.49	3/4	118.71	3/4		3/4			
11	2,240.95	11	1,883.54	11	1,526.13	11	1,168.73	11	811.32	11	452.98	11	112.19	11		11			
1/4	2,233.50	1/4	1,876.10	1/4	1,518.69	1/4	1,161.28	1/4	803.87	1/4	445.46	1/4	105.66	1/4		1/4			
1/2	2,226.06	1/2	1,868.65	1/2	1,511.24	1/2	1,153.84	1/2	796.43	1/2	437.95	1/2	99.14	1/2		1/2			
3/4	2,218.61	3/4	1,861.20	3/4	1,503.79	3/4	1,146.39	3/4	788.98	3/4	430.50	3/4	92.68	3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/19/2007 INS
RECALCULATED: 08/08/2019 CL
REPRINTED: 08/08/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2019

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



BARGE "HTCO 3060"

2 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03"

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	4,787.99	0	4,430.67	0	4,069.04	0	3,707.41	0	3,345.77	0	2,984.14
1/4		1/4		1/4		1/4		1/4	4,780.85	1/4	4,423.13	1/4	4,061.50	1/4	3,699.87	1/4	3,338.24	1/4	2,976.61
1/2		1/2		1/2		1/2	5,099.79	1/2	4,773.70	1/2	4,415.60	1/2	4,053.97	1/2	3,692.34	1/2	3,330.70	1/2	2,969.07
3/4		3/4		3/4		3/4	5,095.80	3/4	4,766.56	3/4	4,408.06	3/4	4,046.43	3/4	3,684.80	3/4	3,323.17	3/4	2,961.54
1	1	1	1	1	1	1	5,090.74	1	4,759.42	1	4,400.53	1	4,038.90	1	3,677.27	1	3,315.64	1	2,954.01
1/4		1/4		1/4		1/4	5,085.68	1/4	4,752.28	1/4	4,393.00	1/4	4,031.37	1/4	3,669.73	1/4	3,308.10	1/4	2,946.47
1/2		1/2		1/2		1/2	5,080.62	1/2	4,745.13	1/2	4,385.46	1/2	4,023.83	1/2	3,662.20	1/2	3,300.57	1/2	2,938.94
3/4		3/4		3/4		3/4	5,075.56	3/4	4,737.99	3/4	4,377.93	3/4	4,016.30	3/4	3,654.66	3/4	3,293.03	3/4	2,931.40
2	2	2	2	2	2	2	5,069.46	2	4,730.85	2	4,370.40	2	4,008.77	2	3,647.13	2	3,285.50	2	2,923.87
1/4		1/4		1/4		1/4	5,063.37	1/4	4,723.71	1/4	4,362.86	1/4	4,001.23	1/4	3,639.60	1/4	3,277.97	1/4	2,916.33
1/2		1/2		1/2		1/2	5,057.27	1/2	4,716.56	1/2	4,355.33	1/2	3,993.70	1/2	3,632.06	1/2	3,270.43	1/2	2,908.80
3/4		3/4		3/4		3/4	5,051.17	3/4	4,709.42	3/4	4,347.79	3/4	3,986.16	3/4	3,624.53	3/4	3,262.90	3/4	2,901.26
3	3	3	3	3	3	3	5,044.30	3	4,701.89	3	4,340.26	3	3,978.63	3	3,617.00	3	3,255.37	3	2,893.73
1/4		1/4		1/4		1/4	5,037.42	1/4	4,694.36	1/4	4,332.73	1/4	3,971.09	1/4	3,609.46	1/4	3,247.83	1/4	2,886.20
1/2		1/2		1/2		1/2	5,030.55	1/2	4,686.82	1/2	4,325.19	1/2	3,963.56	1/2	3,601.93	1/2	3,240.30	1/2	2,878.66
3/4		3/4		3/4		3/4	5,023.67	3/4	4,679.29	3/4	4,317.66	3/4	3,956.02	3/4	3,594.39	3/4	3,232.76	3/4	2,871.13
4	4	4	4	4	4	4	5,016.53	4	4,671.76	4	4,310.13	4	3,948.49	4	3,586.86	4	3,225.23	4	2,863.60
1/4		1/4		1/4		1/4	5,009.39	1/4	4,664.22	1/4	4,302.59	1/4	3,940.96	1/4	3,579.33	1/4	3,217.69	1/4	2,856.06
1/2		1/2		1/2		1/2	5,002.24	1/2	4,656.69	1/2	4,295.06	1/2	3,933.42	1/2	3,571.79	1/2	3,210.16	1/2	2,848.53
3/4		3/4		3/4		3/4	4,995.10	3/4	4,649.15	3/4	4,287.52	3/4	3,925.89	3/4	3,564.26	3/4	3,202.62	3/4	2,840.99
5	5	5	5	5	5	5	4,987.96	5	4,641.62	5	4,279.99	5	3,918.36	5	3,556.73	5	3,195.09	5	2,833.46
1/4		1/4		1/4		1/4	4,980.82	1/4	4,634.09	1/4	4,272.45	1/4	3,910.82	1/4	3,549.19	1/4	3,187.56	1/4	2,825.93
1/2		1/2		1/2		1/2	4,973.68	1/2	4,626.55	1/2	4,264.92	1/2	3,903.29	1/2	3,541.66	1/2	3,180.02	1/2	2,818.39
3/4		3/4		3/4		3/4	4,966.54	3/4	4,619.02	3/4	4,257.38	3/4	3,895.75	3/4	3,534.12	3/4	3,172.49	3/4	2,810.86
6	6	6	6	6	6	6	4,959.40	6	4,611.49	6	4,249.85	6	3,888.22	6	3,526.59	6	3,164.96	6	2,803.33
1/4		1/4		1/4		1/4	4,952.26	1/4	4,603.95	1/4	4,242.32	1/4	3,880.69	1/4	3,519.05	1/4	3,157.42	1/4	2,795.79
1/2		1/2		1/2		1/2	4,945.11	1/2	4,596.42	1/2	4,234.78	1/2	3,873.15	1/2	3,511.52	1/2	3,149.89	1/2	2,788.26
3/4		3/4		3/4		3/4	4,937.97	3/4	4,588.88	3/4	4,227.25	3/4	3,865.62	3/4	3,503.98	3/4	3,142.35	3/4	2,780.72
7	7	7	7	7	7	7	4,930.83	7	4,581.35	7	4,219.72	7	3,858.09	7	3,496.45	7	3,134.82	7	2,773.19
1/4		1/4		1/4		1/4	4,923.69	1/4	4,573.81	1/4	4,212.18	1/4	3,850.55	1/4	3,488.92	1/4	3,127.29	1/4	2,765.65
1/2		1/2		1/2		1/2	4,916.54	1/2	4,566.28	1/2	4,204.65	1/2	3,843.02	1/2	3,481.38	1/2	3,119.75	1/2	2,758.12
3/4		3/4		3/4		3/4	4,909.40	3/4	4,558.74	3/4	4,197.11	3/4	3,835.48	3/4	3,473.85	3/4	3,112.22	3/4	2,750.58
8	8	8	8	8	8	8	4,902.26	8	4,551.21	8	4,189.58	8	3,827.95	8	3,466.32	8	3,104.69	8	2,743.05
1/4		1/4		1/4		1/4	4,895.12	1/4	4,543.68	1/4	4,182.05	1/4	3,820.41	1/4	3,458.78	1/4	3,097.15	1/4	2,735.52
1/2		1/2		1/2		1/2	4,887.97	1/2	4,536.14	1/2	4,174.51	1/2	3,812.88	1/2	3,451.25	1/2	3,089.62	1/2	2,727.98
3/4		3/4		3/4		3/4	4,880.83	3/4	4,528.61	3/4	4,166.98	3/4	3,805.34	3/4	3,443.71	3/4	3,082.08	3/4	2,720.45
9	9	9	9	9	9	9	4,873.69	9	4,521.08	9	4,159.45	9	3,797.81	9	3,436.18	9	3,074.55	9	2,712.92
1/4		1/4		1/4		1/4	4,866.55	1/4	4,513.54	1/4	4,151.91	1/4	3,790.28	1/4	3,428.65	1/4	3,067.01	1/4	2,705.38
1/2		1/2		1/2		1/2	4,859.40	1/2	4,506.01	1/2	4,144.38	1/2	3,782.74	1/2	3,421.11	1/2	3,059.48	1/2	2,697.85
3/4		3/4		3/4		3/4	4,852.26	3/4	4,498.47	3/4	4,136.84	3/4	3,775.21	3/4	3,413.58	3/4	3,051.94	3/4	2,690.31
10	10	10	10	10	10	10	4,845.12	10	4,490.94	10	4,129.31	10	3,767.68	10	3,406.05	10	3,044.41	10	2,682.78
1/4		1/4		1/4		1/4	4,837.98	1/4	4,483.41	1/4	4,121.77	1/4	3,760.14	1/4	3,398.51	1/4	3,036.88	1/4	2,675.25
1/2		1/2		1/2		1/2	4,830.84	1/2	4,475.87	1/2	4,114.24	1/2	3,752.61	1/2	3,390.98	1/2	3,029.34	1/2	2,667.71
3/4		3/4		3/4		3/4	4,823.70	3/4	4,468.34	3/4	4,106.70	3/4	3,745.07	3/4	3,383.44	3/4	3,021.81	3/4	2,660.18
11	11	11	11	11	11	11	4,816.56	11	4,460.81	11	4,099.17	11	3,737.54	11	3,375.91	11	3,014.28	11	2,652.65
1/4		1/4		1/4		1/4	4,809.42	1/4	4,453.27	1/4	4,091.64	1/4	3,730.01	1/4	3,368.37	1/4	3,006.74	1/4	2,645.11
1/2		1/2		1/2		1/2	4,802.27	1/2	4,445.74	1/2	4,084.10	1/2	3,722.47	1/2	3,360.84	1/2	2,999.21	1/2	2,637.58
3/4		3/4		3/4		3/4	4,795.13	3/4	4,438.20	3/4	4,076.57	3/4	3,714.94	3/4	3,353.30	3/4	2,991.67	3/4	2,630.04

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'-09" 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 3060"

2 PORT ULLAGE TABLE HERMETIC GAUGE HEIGHT 17'-03"

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	2,622.51	0	2,260.88	0	1,899.25	0	1,537.61	0	1,175.98	0	814.35	0	452.72	0	97.69	0		0	
1/4	2,614.97	1/4	2,253.34	1/4	1,891.71	1/4	1,530.08	1/4	1,168.45	1/4	806.81	1/4	445.18	1/4	90.75	1/4		1/4	
1/2	2,607.44	1/2	2,245.81	1/2	1,884.18	1/2	1,522.54	1/2	1,160.91	1/2	799.28	1/2	437.65	1/2	83.82	1/2		1/2	
3/4	2,599.90	3/4	2,238.27	3/4	1,876.64	3/4	1,515.01	3/4	1,153.38	3/4	791.74	3/4	430.11	3/4	76.88	3/4		3/4	
1	2,592.37	1	2,230.74	1	1,869.11	1	1,507.48	1	1,145.85	1	784.21	1	422.58	1	69.95	1		1	
1/4	2,584.84	1/4	2,223.21	1/4	1,861.57	1/4	1,499.94	1/4	1,138.31	1/4	776.68	1/4	415.05	1/4	63.01	1/4		1/4	
1/2	2,577.30	1/2	2,215.67	1/2	1,854.04	1/2	1,492.41	1/2	1,130.78	1/2	769.14	1/2	407.51	1/2	56.08	1/2		1/2	
3/4	2,569.77	3/4	2,208.14	3/4	1,846.50	3/4	1,484.87	3/4	1,123.24	3/4	761.61	3/4	399.98	3/4	49.14	3/4		3/4	
2	2,562.24	2	2,200.61	2	1,838.97	2	1,477.34	2	1,115.71	2	754.08	2	392.45	2	43.48	2		2	
1/4	2,554.70	1/4	2,193.07	1/4	1,831.44	1/4	1,469.81	1/4	1,108.17	1/4	746.54	1/4	384.91	1/4	37.81	1/4		1/4	
1/2	2,547.17	1/2	2,185.54	1/2	1,823.90	1/2	1,462.27	1/2	1,100.64	1/2	739.01	1/2	377.38	1/2	32.15	1/2		1/2	
3/4	2,539.63	3/4	2,178.00	3/4	1,816.37	3/4	1,454.74	3/4	1,093.10	3/4	731.47	3/4	369.84	3/4	26.48	3/4		3/4	
3	2,532.10	3	2,170.47	3	1,808.84	3	1,447.21	3	1,085.57	3	723.94	3	362.31	3	22.50	3		3	
1/4	2,524.57	1/4	2,162.93	1/4	1,801.30	1/4	1,439.67	1/4	1,078.04	1/4	716.41	1/4	354.77	1/4		1/4		1/4	
1/2	2,517.03	1/2	2,155.40	1/2	1,793.77	1/2	1,432.14	1/2	1,070.50	1/2	708.87	1/2	347.24	1/2		1/2		1/2	
3/4	2,509.50	3/4	2,147.86	3/4	1,786.23	3/4	1,424.60	3/4	1,062.97	3/4	701.34	3/4	339.70	3/4		3/4		3/4	
4	2,501.97	4	2,140.33	4	1,778.70	4	1,417.07	4	1,055.44	4	693.81	4	332.17	4		4		4	
1/4	2,494.43	1/4	2,132.80	1/4	1,771.17	1/4	1,409.53	1/4	1,047.90	1/4	686.27	1/4	324.64	1/4		1/4		1/4	
1/2	2,486.90	1/2	2,125.26	1/2	1,763.63	1/2	1,402.00	1/2	1,040.37	1/2	678.74	1/2	317.10	1/2		1/2		1/2	
3/4	2,479.36	3/4	2,117.73	3/4	1,756.10	3/4	1,394.46	3/4	1,032.83	3/4	671.20	3/4	309.57	3/4		3/4		3/4	
5	2,471.83	5	2,110.20	5	1,748.57	5	1,386.93	5	1,025.30	5	663.67	5	302.04	5		5		5	
1/4	2,464.29	1/4	2,102.66	1/4	1,741.03	1/4	1,379.40	1/4	1,017.77	1/4	656.13	1/4	294.50	1/4		1/4		1/4	
1/2	2,456.76	1/2	2,095.13	1/2	1,733.50	1/2	1,371.86	1/2	1,010.23	1/2	648.60	1/2	286.97	1/2		1/2		1/2	
3/4	2,449.22	3/4	2,087.59	3/4	1,725.96	3/4	1,364.33	3/4	1,002.70	3/4	641.06	3/4	279.43	3/4		3/4		3/4	
6	2,441.69	6	2,080.06	6	1,718.43	6	1,356.80	6	995.17	6	633.53	6	271.90	6		6		6	
1/4	2,434.16	1/4	2,072.53	1/4	1,710.89	1/4	1,349.26	1/4	987.63	1/4	626.00	1/4	264.37	1/4		1/4		1/4	
1/2	2,426.62	1/2	2,064.99	1/2	1,703.36	1/2	1,341.73	1/2	980.10	1/2	618.46	1/2	256.83	1/2		1/2		1/2	
3/4	2,419.09	3/4	2,057.46	3/4	1,695.82	3/4	1,334.19	3/4	972.56	3/4	610.93	3/4	249.30	3/4		3/4		3/4	
7	2,411.56	7	2,049.93	7	1,688.29	7	1,326.66	7	965.03	7	603.40	7	241.77	7		7		7	
1/4	2,404.02	1/4	2,042.39	1/4	1,680.76	1/4	1,319.13	1/4	957.49	1/4	595.86	1/4	234.23	1/4		1/4		1/4	
1/2	2,396.49	1/2	2,034.86	1/2	1,673.22	1/2	1,311.59	1/2	949.96	1/2	588.33	1/2	226.70	1/2		1/2		1/2	
3/4	2,388.95	3/4	2,027.32	3/4	1,665.69	3/4	1,304.06	3/4	942.42	3/4	580.79	3/4	219.16	3/4		3/4		3/4	
8	2,381.42	8	2,019.79	8	1,658.16	8	1,296.53	8	934.89	8	573.26	8	211.67	8		8		8	
1/4	2,373.89	1/4	2,012.25	1/4	1,650.62	1/4	1,288.99	1/4	927.36	1/4	565.73	1/4	204.18	1/4		1/4		1/4	
1/2	2,366.35	1/2	2,004.72	1/2	1,643.09	1/2	1,281.46	1/2	919.82	1/2	558.19	1/2	196.69	1/2		1/2		1/2	
3/4	2,358.82	3/4	1,997.18	3/4	1,635.55	3/4	1,273.92	3/4	912.29	3/4	550.66	3/4	189.20	3/4		3/4		3/4	
9	2,351.29	9	1,989.65	9	1,628.02	9	1,266.39	9	904.76	9	543.13	9	181.92	9		9		9	
1/4	2,343.75	1/4	1,982.12	1/4	1,620.49	1/4	1,258.85	1/4	897.22	1/4	535.59	1/4	174.65	1/4		1/4		1/4	
1/2	2,336.22	1/2	1,974.58	1/2	1,612.95	1/2	1,251.32	1/2	889.69	1/2	528.06	1/2	167.37	1/2		1/2		1/2	
3/4	2,328.68	3/4	1,967.05	3/4	1,605.42	3/4	1,243.78	3/4	882.15	3/4	520.52	3/4	160.09	3/4		3/4		3/4	
10	2,321.15	10	1,959.52	10	1,597.89	10	1,236.25	10	874.62	10	512.99	10	153.16	10		10		10	
1/4	2,313.61	1/4	1,951.98	1/4	1,590.35	1/4	1,228.72	1/4	867.09	1/4	505.45	1/4	146.22	1/4		1/4		1/4	
1/2	2,306.08	1/2	1,944.45	1/2	1,582.82	1/2	1,221.18	1/2	859.55	1/2	497.92	1/2	139.29	1/2		1/2		1/2	
3/4	2,298.54	3/4	1,936.91	3/4	1,575.28	3/4	1,213.65	3/4	852.02	3/4	490.38	3/4	132.35	3/4		3/4		3/4	
11	2,291.01	11	1,929.38	11	1,567.75	11	1,206.12	11	844.49	11	482.85	11	125.42	11		11		11	
1/4	2,283.48	1/4	1,921.85	1/4	1,560.21	1/4	1,198.58	1/4	836.95	1/4	475.32	1/4	118.49	1/4		1/4		1/4	
1/2	2,275.94	1/2	1,914.31	1/2	1,552.68	1/2	1,191.05	1/2	829.42	1/2	467.78	1/2	111.55	1/2		1/2		1/2	
3/4	2,268.41	3/4	1,906.78	3/4	1,545.14	3/4	1,183.51	3/4	821.88	3/4	460.25	3/4	104.62	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/19/2007 INS
RECALCULATED: 08/08/2019 CL
REPRINTED: 08/08/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2019

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



BARGE "HTCO 3060"

2 STBD

ULLAGE TABLE

HERMETIC

GAUGE HEIGHT 17'-03"

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	0	0	0	0	4,787.99	0	4,430.67	0	4,069.04	0	3,707.41	0	3,345.77	0	2,984.14
1/4		1/4		1/4		1/4		1/4	4,780.85	1/4	4,423.13	1/4	4,061.50	1/4	3,699.87	1/4	3,338.24	1/4	2,976.61
1/2		1/2		1/2		1/2	5,099.79	1/2	4,773.70	1/2	4,415.60	1/2	4,053.97	1/2	3,692.34	1/2	3,330.70	1/2	2,969.07
3/4		3/4		3/4		3/4	5,095.80	3/4	4,766.56	3/4	4,408.06	3/4	4,046.43	3/4	3,684.80	3/4	3,323.17	3/4	2,961.54
1	1	1	1	1	1	1	5,090.74	1	4,759.42	1	4,400.53	1	4,038.90	1	3,677.27	1	3,315.64	1	2,954.01
1/4		1/4		1/4		1/4	5,085.68	1/4	4,752.28	1/4	4,393.00	1/4	4,031.37	1/4	3,669.73	1/4	3,308.10	1/4	2,946.47
1/2		1/2		1/2		1/2	5,080.62	1/2	4,745.13	1/2	4,385.46	1/2	4,023.83	1/2	3,662.20	1/2	3,300.57	1/2	2,938.94
3/4		3/4		3/4		3/4	5,075.56	3/4	4,737.99	3/4	4,377.93	3/4	4,016.30	3/4	3,654.66	3/4	3,293.03	3/4	2,931.40
2	2	2	2	2	2	2	5,069.46	2	4,730.85	2	4,370.40	2	4,008.77	2	3,647.13	2	3,285.50	2	2,923.87
1/4		1/4		1/4		1/4	5,063.37	1/4	4,723.71	1/4	4,362.86	1/4	4,001.23	1/4	3,639.60	1/4	3,277.97	1/4	2,916.33
1/2		1/2		1/2		1/2	5,057.27	1/2	4,716.56	1/2	4,355.33	1/2	3,993.70	1/2	3,632.06	1/2	3,270.43	1/2	2,908.80
3/4		3/4		3/4		3/4	5,051.17	3/4	4,709.42	3/4	4,347.79	3/4	3,986.16	3/4	3,624.53	3/4	3,262.90	3/4	2,901.26
3	3	3	3	3	3	3	5,044.30	3	4,701.89	3	4,340.26	3	3,978.63	3	3,617.00	3	3,255.37	3	2,893.73
1/4		1/4		1/4		1/4	5,037.42	1/4	4,694.36	1/4	4,332.73	1/4	3,971.09	1/4	3,609.46	1/4	3,247.83	1/4	2,886.20
1/2		1/2		1/2		1/2	5,030.55	1/2	4,686.82	1/2	4,325.19	1/2	3,963.56	1/2	3,601.93	1/2	3,240.30	1/2	2,878.66
3/4		3/4		3/4		3/4	5,023.67	3/4	4,679.29	3/4	4,317.66	3/4	3,956.02	3/4	3,594.39	3/4	3,232.76	3/4	2,871.13
4	4	4	4	4	4	4	5,016.53	4	4,671.76	4	4,310.13	4	3,948.49	4	3,586.86	4	3,225.23	4	2,863.60
1/4		1/4		1/4		1/4	5,009.39	1/4	4,664.22	1/4	4,302.59	1/4	3,940.96	1/4	3,579.33	1/4	3,217.69	1/4	2,856.06
1/2		1/2		1/2		1/2	5,002.24	1/2	4,656.69	1/2	4,295.06	1/2	3,933.42	1/2	3,571.79	1/2	3,210.16	1/2	2,848.53
3/4		3/4		3/4		3/4	4,995.10	3/4	4,649.15	3/4	4,287.52	3/4	3,925.89	3/4	3,564.26	3/4	3,202.62	3/4	2,840.99
5	5	5	5	5	5	5	4,987.96	5	4,641.62	5	4,279.99	5	3,918.36	5	3,556.73	5	3,195.09	5	2,833.46
1/4		1/4		1/4		1/4	4,980.82	1/4	4,634.09	1/4	4,272.45	1/4	3,910.82	1/4	3,549.19	1/4	3,187.56	1/4	2,825.93
1/2		1/2		1/2		1/2	4,973.68	1/2	4,626.55	1/2	4,264.92	1/2	3,903.29	1/2	3,541.66	1/2	3,180.02	1/2	2,818.39
3/4		3/4		3/4		3/4	4,966.54	3/4	4,619.02	3/4	4,257.38	3/4	3,895.75	3/4	3,534.12	3/4	3,172.49	3/4	2,810.86
6	6	6	6	6	6	6	4,959.40	6	4,611.49	6	4,249.85	6	3,888.22	6	3,526.59	6	3,164.96	6	2,803.33
1/4		1/4		1/4		1/4	4,952.26	1/4	4,603.95	1/4	4,242.32	1/4	3,880.69	1/4	3,519.05	1/4	3,157.42	1/4	2,795.79
1/2		1/2		1/2		1/2	4,945.11	1/2	4,596.42	1/2	4,234.78	1/2	3,873.15	1/2	3,511.52	1/2	3,149.89	1/2	2,788.26
3/4		3/4		3/4		3/4	4,937.97	3/4	4,588.88	3/4	4,227.25	3/4	3,865.62	3/4	3,503.98	3/4	3,142.35	3/4	2,780.72
7	7	7	7	7	7	7	4,930.83	7	4,581.35	7	4,219.72	7	3,858.09	7	3,496.45	7	3,134.82	7	2,773.19
1/4		1/4		1/4		1/4	4,923.69	1/4	4,573.81	1/4	4,212.18	1/4	3,850.55	1/4	3,488.92	1/4	3,127.29	1/4	2,765.65
1/2		1/2		1/2		1/2	4,916.54	1/2	4,566.28	1/2	4,204.65	1/2	3,843.02	1/2	3,481.38	1/2	3,119.75	1/2	2,758.12
3/4		3/4		3/4		3/4	4,909.40	3/4	4,558.74	3/4	4,197.11	3/4	3,835.48	3/4	3,473.85	3/4	3,112.22	3/4	2,750.58
8	8	8	8	8	8	8	4,902.26	8	4,551.21	8	4,189.58	8	3,827.95	8	3,466.32	8	3,104.69	8	2,743.05
1/4		1/4		1/4		1/4	4,895.12	1/4	4,543.68	1/4	4,182.05	1/4	3,820.41	1/4	3,458.78	1/4	3,097.15	1/4	2,735.52
1/2		1/2		1/2		1/2	4,887.97	1/2	4,536.14	1/2	4,174.51	1/2	3,812.88	1/2	3,451.25	1/2	3,089.62	1/2	2,727.98
3/4		3/4		3/4		3/4	4,880.83	3/4	4,528.61	3/4	4,166.98	3/4	3,805.34	3/4	3,443.71	3/4	3,082.08	3/4	2,720.45
9	9	9	9	9	9	9	4,873.69	9	4,521.08	9	4,159.45	9	3,797.81	9	3,436.18	9	3,074.55	9	2,712.92
1/4		1/4		1/4		1/4	4,866.55	1/4	4,513.54	1/4	4,151.91	1/4	3,790.28	1/4	3,428.65	1/4	3,067.01	1/4	2,705.38
1/2		1/2		1/2		1/2	4,859.40	1/2	4,506.01	1/2	4,144.38	1/2	3,782.74	1/2	3,421.11	1/2	3,059.48	1/2	2,697.85
3/4		3/4		3/4		3/4	4,852.26	3/4	4,498.47	3/4	4,136.84	3/4	3,775.21	3/4	3,413.58	3/4	3,051.94	3/4	2,690.31
10	10	10	10	10	10	10	4,845.12	10	4,490.94	10	4,129.31	10	3,767.68	10	3,406.05	10	3,044.41	10	2,682.78
1/4		1/4		1/4		1/4	4,837.98	1/4	4,483.41	1/4	4,121.77	1/4	3,760.14	1/4	3,398.51	1/4	3,036.88	1/4	2,675.25
1/2		1/2		1/2		1/2	4,830.84	1/2	4,475.87	1/2	4,114.24	1/2	3,752.61	1/2	3,390.98	1/2	3,029.34	1/2	2,667.71
3/4		3/4		3/4		3/4	4,823.70	3/4	4,468.34	3/4	4,106.70	3/4	3,745.07	3/4	3,383.44	3/4	3,021.81	3/4	2,660.18
11	11	11	11	11	11	11	4,816.56	11	4,460.81	11	4,099.17	11	3,737.54	11	3,375.91	11	3,014.28	11	2,652.65
1/4		1/4		1/4		1/4	4,809.42	1/4	4,453.27	1/4	4,091.64	1/4	3,730.01	1/4	3,368.37	1/4	3,006.74	1/4	2,645.11
1/2		1/2		1/2		1/2	4,802.27	1/2	4,445.74	1/2	4,084.10	1/2	3,722.47	1/2	3,360.84	1/2	2,999.21	1/2	2,637.58
3/4		3/4		3/4		3/4	4,795.13	3/4	4,438.20	3/4	4,076.57	3/4	3,714.94	3/4	3,353.30	3/4	2,991.67	3/4	2,630.04

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'-09" 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 3060"

2 STBD

ULLAGE TABLE
HERMETIC

GAUGE HEIGHT 17'-03"

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	2,622.51	0	2,260.88	0	1,899.25	0	1,537.61	0	1,175.98	0	814.35	0	452.72	0	97.69	0		0	
1/4	2,614.97	1/4	2,253.34	1/4	1,891.71	1/4	1,530.08	1/4	1,168.45	1/4	806.81	1/4	445.18	1/4	90.75	1/4		1/4	
1/2	2,607.44	1/2	2,245.81	1/2	1,884.18	1/2	1,522.54	1/2	1,160.91	1/2	799.28	1/2	437.65	1/2	83.82	1/2		1/2	
3/4	2,599.90	3/4	2,238.27	3/4	1,876.64	3/4	1,515.01	3/4	1,153.38	3/4	791.74	3/4	430.11	3/4	76.88	3/4		3/4	
1	2,592.37	1	2,230.74	1	1,869.11	1	1,507.48	1	1,145.85	1	784.21	1	422.58	1	69.95	1		1	
1/4	2,584.84	1/4	2,223.21	1/4	1,861.57	1/4	1,499.94	1/4	1,138.31	1/4	776.68	1/4	415.05	1/4	63.01	1/4		1/4	
1/2	2,577.30	1/2	2,215.67	1/2	1,854.04	1/2	1,492.41	1/2	1,130.78	1/2	769.14	1/2	407.51	1/2	56.08	1/2		1/2	
3/4	2,569.77	3/4	2,208.14	3/4	1,846.50	3/4	1,484.87	3/4	1,123.24	3/4	761.61	3/4	399.98	3/4	49.14	3/4		3/4	
2	2,562.24	2	2,200.61	2	1,838.97	2	1,477.34	2	1,115.71	2	754.08	2	392.45	2	43.48	2		2	
1/4	2,554.70	1/4	2,193.07	1/4	1,831.44	1/4	1,469.81	1/4	1,108.17	1/4	746.54	1/4	384.91	1/4	37.81	1/4		1/4	
1/2	2,547.17	1/2	2,185.54	1/2	1,823.90	1/2	1,462.27	1/2	1,100.64	1/2	739.01	1/2	377.38	1/2	32.15	1/2		1/2	
3/4	2,539.63	3/4	2,178.00	3/4	1,816.37	3/4	1,454.74	3/4	1,093.10	3/4	731.47	3/4	369.84	3/4	26.48	3/4		3/4	
3	2,532.10	3	2,170.47	3	1,808.84	3	1,447.21	3	1,085.57	3	723.94	3	362.31	3	22.50	3		3	
1/4	2,524.57	1/4	2,162.93	1/4	1,801.30	1/4	1,439.67	1/4	1,078.04	1/4	716.41	1/4	354.77	1/4		1/4		1/4	
1/2	2,517.03	1/2	2,155.40	1/2	1,793.77	1/2	1,432.14	1/2	1,070.50	1/2	708.87	1/2	347.24	1/2		1/2		1/2	
3/4	2,509.50	3/4	2,147.86	3/4	1,786.23	3/4	1,424.60	3/4	1,062.97	3/4	701.34	3/4	339.70	3/4		3/4		3/4	
4	2,501.97	4	2,140.33	4	1,778.70	4	1,417.07	4	1,055.44	4	693.81	4	332.17	4		4		4	
1/4	2,494.43	1/4	2,132.80	1/4	1,771.17	1/4	1,409.53	1/4	1,047.90	1/4	686.27	1/4	324.64	1/4		1/4		1/4	
1/2	2,486.90	1/2	2,125.26	1/2	1,763.63	1/2	1,402.00	1/2	1,040.37	1/2	678.74	1/2	317.10	1/2		1/2		1/2	
3/4	2,479.36	3/4	2,117.73	3/4	1,756.10	3/4	1,394.46	3/4	1,032.83	3/4	671.20	3/4	309.57	3/4		3/4		3/4	
5	2,471.83	5	2,110.20	5	1,748.57	5	1,386.93	5	1,025.30	5	663.67	5	302.04	5		5		5	
1/4	2,464.29	1/4	2,102.66	1/4	1,741.03	1/4	1,379.40	1/4	1,017.77	1/4	656.13	1/4	294.50	1/4		1/4		1/4	
1/2	2,456.76	1/2	2,095.13	1/2	1,733.50	1/2	1,371.86	1/2	1,010.23	1/2	648.60	1/2	286.97	1/2		1/2		1/2	
3/4	2,449.22	3/4	2,087.59	3/4	1,725.96	3/4	1,364.33	3/4	1,002.70	3/4	641.06	3/4	279.43	3/4		3/4		3/4	
6	2,441.69	6	2,080.06	6	1,718.43	6	1,356.80	6	995.17	6	633.53	6	271.90	6		6		6	
1/4	2,434.16	1/4	2,072.53	1/4	1,710.89	1/4	1,349.26	1/4	987.63	1/4	626.00	1/4	264.37	1/4		1/4		1/4	
1/2	2,426.62	1/2	2,064.99	1/2	1,703.36	1/2	1,341.73	1/2	980.10	1/2	618.46	1/2	256.83	1/2		1/2		1/2	
3/4	2,419.09	3/4	2,057.46	3/4	1,695.82	3/4	1,334.19	3/4	972.56	3/4	610.93	3/4	249.30	3/4		3/4		3/4	
7	2,411.56	7	2,049.93	7	1,688.29	7	1,326.66	7	965.03	7	603.40	7	241.77	7		7		7	
1/4	2,404.02	1/4	2,042.39	1/4	1,680.76	1/4	1,319.13	1/4	957.49	1/4	595.86	1/4	234.23	1/4		1/4		1/4	
1/2	2,396.49	1/2	2,034.86	1/2	1,673.22	1/2	1,311.59	1/2	949.96	1/2	588.33	1/2	226.70	1/2		1/2		1/2	
3/4	2,388.95	3/4	2,027.32	3/4	1,665.69	3/4	1,304.06	3/4	942.42	3/4	580.79	3/4	219.16	3/4		3/4		3/4	
8	2,381.42	8	2,019.79	8	1,658.16	8	1,296.53	8	934.89	8	573.26	8	211.67	8		8		8	
1/4	2,373.89	1/4	2,012.25	1/4	1,650.62	1/4	1,288.99	1/4	927.36	1/4	565.73	1/4	204.18	1/4		1/4		1/4	
1/2	2,366.35	1/2	2,004.72	1/2	1,643.09	1/2	1,281.46	1/2	919.82	1/2	558.19	1/2	196.69	1/2		1/2		1/2	
3/4	2,358.82	3/4	1,997.18	3/4	1,635.55	3/4	1,273.92	3/4	912.29	3/4	550.66	3/4	189.20	3/4		3/4		3/4	
9	2,351.29	9	1,989.65	9	1,628.02	9	1,266.39	9	904.76	9	543.13	9	181.92	9		9		9	
1/4	2,343.75	1/4	1,982.12	1/4	1,620.49	1/4	1,258.85	1/4	897.22	1/4	535.59	1/4	174.65	1/4		1/4		1/4	
1/2	2,336.22	1/2	1,974.58	1/2	1,612.95	1/2	1,251.32	1/2	889.69	1/2	528.06	1/2	167.37	1/2		1/2		1/2	
3/4	2,328.68	3/4	1,967.05	3/4	1,605.42	3/4	1,243.78	3/4	882.15	3/4	520.52	3/4	160.09	3/4		3/4		3/4	
10	2,321.15	10	1,959.52	10	1,597.89	10	1,236.25	10	874.62	10	512.99	10	153.16	10		10		10	
1/4	2,313.61	1/4	1,951.98	1/4	1,590.35	1/4	1,228.72	1/4	867.09	1/4	505.45	1/4	146.22	1/4		1/4		1/4	
1/2	2,306.08	1/2	1,944.45	1/2	1,582.82	1/2	1,221.18	1/2	859.55	1/2	497.92	1/2	139.29	1/2		1/2		1/2	
3/4	2,298.54	3/4	1,936.91	3/4	1,575.28	3/4	1,213.65	3/4	852.02	3/4	490.38	3/4	132.35	3/4		3/4		3/4	
11	2,291.01	11	1,929.38	11	1,567.75	11	1,206.12	11	844.49	11	482.85	11	125.42	11		11		11	
1/4	2,283.48	1/4	1,921.85	1/4	1,560.21	1/4	1,198.58	1/4	836.95	1/4	475.32	1/4	118.49	1/4		1/4		1/4	
1/2	2,275.94	1/2	1,914.31	1/2	1,552.68	1/2	1,191.05	1/2	829.42	1/2	467.78	1/2	111.55	1/2		1/2		1/2	
3/4	2,268.41	3/4	1,906.78	3/4	1,545.14	3/4	1,183.51	3/4	821.88	3/4	460.25	3/4	104.62	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/19/2007 INS
RECALCULATED: 08/08/2019 CL
REPRINTED: 08/08/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2019

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



BARGE "HTCO 3060"

3 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0		0	4,375.76	0	4,131.15	0	3,886.55	0	3,641.94	0	3,339.91	0	2,982.89
1/4		1/4		1/4		1/4		1/4	4,370.67	1/4	4,126.05	1/4	3,881.45	1/4	3,636.84	1/4	3,332.47	1/4	2,975.45
1/2		1/2		1/2		1/2		1/2	4,365.57	1/2	4,120.96	1/2	3,876.36	1/2	3,631.75	1/2	3,325.04	1/2	2,968.02
3/4		3/4		3/4		3/4		3/4	4,594.54	3/4	4,360.48	3/4	4,115.86	3/4	3,871.26	3/4	3,626.65	3/4	3,317.60
1		1		1		1		1	4,591.61	1	4,355.38	1	4,110.77	1	3,866.16	1	3,621.55	1	3,310.16
1/4		1/4		1/4		1/4		1/4	4,587.90	1/4	4,350.28	1/4	4,105.67	1/4	3,861.07	1/4	3,616.46	1/4	3,302.72
1/2		1/2		1/2		1/2		1/2	4,584.19	1/2	4,345.19	1/2	4,100.58	1/2	3,855.97	1/2	3,611.36	1/2	3,295.29
3/4		3/4		3/4		3/4		3/4	4,580.48	3/4	4,340.09	3/4	4,095.48	3/4	3,850.88	3/4	3,606.27	3/4	3,287.85
2		2		2		2		2	4,576.77	2	4,334.99	2	4,090.39	2	3,845.78	2	3,601.17	2	3,280.41
1/4		1/4		1/4		1/4		1/4	4,572.28	1/4	4,329.90	1/4	4,085.29	1/4	3,840.68	1/4	3,596.08	1/4	3,272.97
1/2		1/2		1/2		1/2		1/2	4,567.78	1/2	4,324.80	1/2	4,080.19	1/2	3,835.59	1/2	3,590.98	1/2	3,265.54
3/4		3/4		3/4		3/4		3/4	4,563.29	3/4	4,319.71	3/4	4,075.10	3/4	3,830.49	3/4	3,585.89	3/4	3,258.10
3		3		3		3		3	4,558.79	3	4,314.61	3	4,070.00	3	3,825.39	3	3,580.79	3	3,250.66
1/4		1/4		1/4		1/4		1/4	4,553.80	1/4	4,309.52	1/4	4,064.90	1/4	3,820.30	1/4	3,575.31	1/4	3,243.22
1/2		1/2		1/2		1/2		1/2	4,548.81	1/2	4,304.42	1/2	4,059.81	1/2	3,815.20	1/2	3,569.83	1/2	3,235.78
3/4		3/4		3/4		3/4		3/4	4,543.82	3/4	4,299.33	3/4	4,054.71	3/4	3,810.11	3/4	3,564.35	3/4	3,228.34
4		4		4		4		4	4,538.83	4	4,294.23	4	4,049.62	4	3,805.01	4	3,558.87	4	3,220.90
1/4		1/4		1/4		1/4		1/4	4,533.74	1/4	4,289.13	1/4	4,044.52	1/4	3,799.92	1/4	3,553.08	1/4	3,213.46
1/2		1/2		1/2		1/2		1/2	4,528.64	1/2	4,284.04	1/2	4,039.42	1/2	3,794.82	1/2	3,547.28	1/2	3,206.03
3/4		3/4		3/4		3/4		3/4	4,523.55	3/4	4,278.94	3/4	4,034.33	3/4	3,789.73	3/4	3,541.49	3/4	3,198.59
5		5		5		5		5	4,518.45	5	4,273.84	5	4,029.23	5	3,784.63	5	3,535.69	5	3,191.15
1/4		1/4		1/4		1/4		1/4	4,513.36	1/4	4,268.75	1/4	4,024.13	1/4	3,779.53	1/4	3,529.55	1/4	3,183.71
1/2		1/2		1/2		1/2		1/2	4,508.26	1/2	4,263.65	1/2	4,019.04	1/2	3,774.44	1/2	3,523.41	1/2	3,176.28
3/4		3/4		3/4		3/4		3/4	4,503.17	3/4	4,258.55	3/4	4,013.94	3/4	3,769.34	3/4	3,517.27	3/4	3,168.84
6		6		6		6		6	4,498.07	6	4,253.46	6	4,008.85	6	3,764.24	6	3,511.13	6	3,161.40
1/4		1/4		1/4		1/4		1/4	4,492.97	1/4	4,248.36	1/4	4,003.76	1/4	3,759.15	1/4	3,504.65	1/4	3,153.96
1/2		1/2		1/2		1/2		1/2	4,487.88	1/2	4,243.26	1/2	3,998.66	1/2	3,754.05	1/2	3,498.16	1/2	3,146.53
3/4		3/4		3/4		3/4		3/4	4,482.78	3/4	4,238.17	3/4	3,993.57	3/4	3,748.96	3/4	3,491.68	3/4	3,139.09
7		7		7		7		7	4,477.68	7	4,233.07	7	3,988.47	7	3,743.86	7	3,485.19	7	3,131.65
1/4		1/4		1/4		1/4		1/4	4,472.59	1/4	4,227.97	1/4	3,983.37	1/4	3,738.76	1/4	3,478.36	1/4	3,124.21
1/2		1/2		1/2		1/2		1/2	4,467.49	1/2	4,222.88	1/2	3,978.28	1/2	3,733.67	1/2	3,471.53	1/2	3,116.78
3/4		3/4		3/4		3/4		3/4	4,462.40	3/4	4,217.78	3/4	3,973.18	3/4	3,728.57	3/4	3,464.70	3/4	3,109.34
8		8		8		8		8	4,457.30	8	4,212.69	8	3,968.08	8	3,723.47	8	3,457.87	8	3,101.90
1/4		1/4		1/4		1/4		1/4	4,452.20	1/4	4,207.59	1/4	3,962.99	1/4	3,718.38	1/4	3,450.69	1/4	3,094.46
1/2		1/2		1/2		1/2		1/2	4,447.11	1/2	4,202.50	1/2	3,957.89	1/2	3,713.28	1/2	3,443.52	1/2	3,087.02
3/4		3/4		3/4		3/4		3/4	4,442.01	3/4	4,197.40	3/4	3,952.80	3/4	3,708.19	3/4	3,436.34	3/4	3,079.58
9		9		9		9		9	4,436.91	9	4,192.31	9	3,947.70	9	3,703.09	9	3,429.16	9	3,072.14
1/4		1/4		1/4		1/4		1/4	4,431.82	1/4	4,187.21	1/4	3,942.60	1/4	3,698.00	1/4	3,421.73	1/4	3,064.70
1/2		1/2		1/2		1/2		1/2	4,426.72	1/2	4,182.11	1/2	3,937.51	1/2	3,692.90	1/2	3,414.29	1/2	3,057.27
3/4		3/4		3/4		3/4		3/4	4,421.63	3/4	4,177.02	3/4	3,932.41	3/4	3,687.81	3/4	3,406.86	3/4	3,049.83
10		10		10		10		10	4,416.53	10	4,171.92	10	3,927.31	10	3,682.71	10	3,399.42	10	3,042.39
1/4		1/4		1/4		1/4		1/4	4,411.44	1/4	4,166.82	1/4	3,922.22	1/4	3,677.61	1/4	3,391.98	1/4	3,034.95
1/2		1/2		1/2		1/2		1/2	4,406.34	1/2	4,161.73	1/2	3,917.12	1/2	3,672.52	1/2	3,384.54	1/2	3,027.52
3/4		3/4		3/4		3/4		3/4	4,401.25	3/4	4,156.63	3/4	3,912.03	3/4	3,667.42	3/4	3,377.10	3/4	3,020.08
11		11		11		11		11	4,396.15	11	4,151.54	11	3,906.93	11	3,662.32	11	3,369.66	11	3,012.64
1/4		1/4		1/4		1/4		1/4	4,391.05	1/4	4,146.44	1/4	3,901.84	1/4	3,657.23	1/4	3,362.22	1/4	3,005.20
1/2		1/2		1/2		1/2		1/2	4,385.96	1/2	4,141.34	1/2	3,896.74	1/2	3,652.13	1/2	3,354.79	1/2	2,997.77
3/4		3/4		3/4		3/4		3/4	4,380.86	3/4	4,136.25	3/4	3,891.65	3/4	3,647.04	3/4	3,347.35	3/4	2,990.33

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'-09" OFF CENTERLINE AND 45'-09" FORWARD OF AFT BULKHEAD

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



BARGE "HTCO 3060"

3 PORT ULLAGE TABLE HERMETIC

GAUGE HEIGHT 17'-03 1/4"

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	2,625.86	0	2,268.84	0	1,911.82	0	1,554.79	0	1,197.77	0	837.42	0	473.42	0	111.11	0		0	
1/4	2,618.42	1/4	2,261.40	1/4	1,904.38	1/4	1,547.35	1/4	1,190.33	1/4	829.85	1/4	465.82	1/4	103.75	1/4		1/4	
1/2	2,610.99	1/2	2,253.97	1/2	1,896.94	1/2	1,539.92	1/2	1,182.90	1/2	822.29	1/2	458.22	1/2	96.40	1/2		1/2	
3/4	2,603.55	3/4	2,246.53	3/4	1,889.50	3/4	1,532.48	3/4	1,175.46	3/4	814.72	3/4	450.62	3/4	89.04	3/4		3/4	
1	2,596.11	1	2,239.09	1	1,882.06	1	1,525.04	1	1,168.02	1	807.15	1	443.02	1	81.68	1		1	
1/4	2,588.67	1/4	2,231.65	1/4	1,874.62	1/4	1,517.60	1/4	1,160.58	1/4	799.59	1/4	435.42	1/4	74.32	1/4		1/4	
1/2	2,581.24	1/2	2,224.22	1/2	1,867.19	1/2	1,510.17	1/2	1,153.14	1/2	792.02	1/2	427.83	1/2	66.97	1/2		1/2	
3/4	2,573.80	3/4	2,216.78	3/4	1,859.75	3/4	1,502.73	3/4	1,145.70	3/4	784.46	3/4	420.23	3/4	59.61	3/4		3/4	
2	2,566.36	2	2,209.34	2	1,852.31	2	1,495.29	2	1,138.26	2	776.89	2	412.63	2	52.25	2		2	
1/4	2,558.92	1/4	2,201.90	1/4	1,844.87	1/4	1,487.85	1/4	1,130.82	1/4	769.32	1/4	405.03	1/4	46.25	1/4		1/4	
1/2	2,551.49	1/2	2,194.46	1/2	1,837.44	1/2	1,480.42	1/2	1,123.39	1/2	761.76	1/2	397.44	1/2	40.25	1/2		1/2	
3/4	2,544.05	3/4	2,187.02	3/4	1,830.00	3/4	1,472.98	3/4	1,115.95	3/4	754.19	3/4	389.84	3/4	34.25	3/4		3/4	
3	2,536.61	3	2,179.58	3	1,822.56	3	1,465.54	3	1,108.51	3	746.62	3	382.24	3	28.25	3		3	
1/4	2,529.17	1/4	2,172.14	1/4	1,815.12	1/4	1,458.10	1/4	1,101.07	1/4	739.06	1/4	374.64	1/4	24.00	1/4		1/4	
1/2	2,521.74	1/2	2,164.71	1/2	1,807.69	1/2	1,450.66	1/2	1,093.64	1/2	731.49	1/2	367.05	1/2		1/2		1/2	
3/4	2,514.30	3/4	2,157.27	3/4	1,800.25	3/4	1,443.22	3/4	1,086.20	3/4	723.93	3/4	359.45	3/4		3/4		3/4	
4	2,506.86	4	2,149.83	4	1,792.81	4	1,435.78	4	1,078.76	4	716.36	4	351.85	4		4		4	
1/4	2,499.42	1/4	2,142.39	1/4	1,785.37	1/4	1,428.34	1/4	1,071.32	1/4	708.80	1/4	344.25	1/4		1/4		1/4	
1/2	2,491.98	1/2	2,134.96	1/2	1,777.94	1/2	1,420.91	1/2	1,063.89	1/2	701.23	1/2	336.66	1/2		1/2		1/2	
3/4	2,484.54	3/4	2,127.52	3/4	1,770.50	3/4	1,413.47	3/4	1,056.45	3/4	693.67	3/4	329.06	3/4		3/4		3/4	
5	2,477.10	5	2,120.08	5	1,763.06	5	1,406.03	5	1,049.01	5	686.10	5	321.46	5		5		5	
1/4	2,469.66	1/4	2,112.64	1/4	1,755.62	1/4	1,398.59	1/4	1,041.51	1/4	678.52	1/4	313.86	1/4		1/4		1/4	
1/2	2,462.23	1/2	2,105.21	1/2	1,748.18	1/2	1,391.16	1/2	1,034.01	1/2	670.94	1/2	306.26	1/2		1/2		1/2	
3/4	2,454.79	3/4	2,097.77	3/4	1,740.74	3/4	1,383.72	3/4	1,026.50	3/4	663.35	3/4	298.66	3/4		3/4		3/4	
6	2,447.35	6	2,090.33	6	1,733.30	6	1,376.28	6	1,019.00	6	655.77	6	291.06	6		6		6	
1/4	2,439.91	1/4	2,082.89	1/4	1,725.86	1/4	1,368.84	1/4	1,011.44	1/4	648.17	1/4	283.46	1/4		1/4		1/4	
1/2	2,432.48	1/2	2,075.46	1/2	1,718.43	1/2	1,361.41	1/2	1,003.87	1/2	640.58	1/2	275.87	1/2		1/2		1/2	
3/4	2,425.04	3/4	2,068.02	3/4	1,710.99	3/4	1,353.97	3/4	996.31	3/4	632.98	3/4	268.27	3/4		3/4		3/4	
7	2,417.60	7	2,060.58	7	1,703.55	7	1,346.53	7	988.74	7	625.38	7	260.67	7		7		7	
1/4	2,410.16	1/4	2,053.14	1/4	1,696.11	1/4	1,339.09	1/4	981.17	1/4	617.78	1/4	253.07	1/4		1/4		1/4	
1/2	2,402.73	1/2	2,045.70	1/2	1,688.68	1/2	1,331.66	1/2	973.61	1/2	610.18	1/2	245.48	1/2		1/2		1/2	
3/4	2,395.29	3/4	2,038.26	3/4	1,681.24	3/4	1,324.22	3/4	966.04	3/4	602.58	3/4	237.88	3/4		3/4		3/4	
8	2,387.85	8	2,030.82	8	1,673.80	8	1,316.78	8	958.47	8	594.98	8	230.28	8		8		8	
1/4	2,380.41	1/4	2,023.38	1/4	1,666.36	1/4	1,309.34	1/4	950.91	1/4	587.38	1/4	222.68	1/4		1/4		1/4	
1/2	2,372.98	1/2	2,015.95	1/2	1,658.93	1/2	1,301.90	1/2	943.34	1/2	579.79	1/2	215.09	1/2		1/2		1/2	
3/4	2,365.54	3/4	2,008.51	3/4	1,651.49	3/4	1,294.46	3/4	935.78	3/4	572.19	3/4	207.49	3/4		3/4		3/4	
9	2,358.10	9	2,001.07	9	1,644.05	9	1,287.02	9	928.21	9	564.59	9	199.89	9		9		9	
1/4	2,350.66	1/4	1,993.63	1/4	1,636.61	1/4	1,279.58	1/4	920.64	1/4	556.99	1/4	192.41	1/4		1/4		1/4	
1/2	2,343.22	1/2	1,986.20	1/2	1,629.18	1/2	1,272.15	1/2	913.08	1/2	549.40	1/2	184.94	1/2		1/2		1/2	
3/4	2,335.78	3/4	1,978.76	3/4	1,621.74	3/4	1,264.71	3/4	905.51	3/4	541.80	3/4	177.46	3/4		3/4		3/4	
10	2,328.34	10	1,971.32	10	1,614.30	10	1,257.27	10	897.94	10	534.20	10	169.98	10		10		10	
1/4	2,320.90	1/4	1,963.88	1/4	1,606.86	1/4	1,249.83	1/4	890.38	1/4	526.60	1/4	162.62	1/4		1/4		1/4	
1/2	2,313.47	1/2	1,956.45	1/2	1,599.42	1/2	1,242.40	1/2	882.81	1/2	519.01	1/2	155.26	1/2		1/2		1/2	
3/4	2,306.03	3/4	1,949.01	3/4	1,591.98	3/4	1,234.96	3/4	875.25	3/4	511.41	3/4	147.90	3/4		3/4		3/4	
11	2,298.59	11	1,941.57	11	1,584.54	11	1,227.52	11	867.68	11	503.81	11	140.54	11		11		11	
1/4	2,291.15	1/4	1,934.13	1/4	1,577.10	1/4	1,220.08	1/4	860.12	1/4	496.21	1/4	133.18	1/4		1/4		1/4	
1/2	2,283.72	1/2	1,926.70	1/2	1,569.67	1/2	1,212.65	1/2	852.55	1/2	488.62	1/2	125.83	1/2		1/2		1/2	
3/4	2,276.28	3/4	1,919.26	3/4	1,562.23	3/4	1,205.21	3/4	844.99	3/4	481.02	3/4	118.47	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/19/2007 INS
RECALCULATED: 08/08/2019 CL
REPRINTED: 08/08/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2019

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



BARGE "HTCO 3060"

3 STBD

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	4,375.76	0	4,131.15	0	3,886.55	0	3,641.94	0	3,339.91	0	2,982.89		
1/4		1/4		1/4		1/4	4,370.67	1/4	4,126.05	1/4	3,881.45	1/4	3,636.84	1/4	3,332.47	1/4	2,975.45		
1/2		1/2		1/2		1/2	4,365.57	1/2	4,120.96	1/2	3,876.36	1/2	3,631.75	1/2	3,325.04	1/2	2,968.02		
3/4		3/4		3/4		3/4	4,594.54	3/4	4,360.48	3/4	4,115.86	3/4	3,871.26	3/4	3,626.65	3/4	3,317.60	3/4	2,960.58
1		1		1		1	4,591.61	1	4,355.38	1	4,110.77	1	3,866.16	1	3,621.55	1	3,310.16	1	2,953.14
1/4		1/4		1/4		1/4	4,587.90	1/4	4,350.28	1/4	4,105.67	1/4	3,861.07	1/4	3,616.46	1/4	3,302.72	1/4	2,945.70
1/2		1/2		1/2		1/2	4,584.19	1/2	4,345.19	1/2	4,100.58	1/2	3,855.97	1/2	3,611.36	1/2	3,295.29	1/2	2,938.26
3/4		3/4		3/4		3/4	4,580.48	3/4	4,340.09	3/4	4,095.48	3/4	3,850.88	3/4	3,606.27	3/4	3,287.85	3/4	2,930.82
2		2		2		2	4,576.77	2	4,334.99	2	4,090.39	2	3,845.78	2	3,601.17	2	3,280.41	2	2,923.38
1/4		1/4		1/4		1/4	4,572.28	1/4	4,329.90	1/4	4,085.29	1/4	3,840.68	1/4	3,596.08	1/4	3,272.97	1/4	2,915.94
1/2		1/2		1/2		1/2	4,567.78	1/2	4,324.80	1/2	4,080.19	1/2	3,835.59	1/2	3,590.98	1/2	3,265.54	1/2	2,908.51
3/4		3/4		3/4		3/4	4,563.29	3/4	4,319.71	3/4	4,075.10	3/4	3,830.49	3/4	3,585.89	3/4	3,258.10	3/4	2,901.07
3		3		3		3	4,558.79	3	4,314.61	3	4,070.00	3	3,825.39	3	3,580.79	3	3,250.66	3	2,893.63
1/4		1/4		1/4		1/4	4,553.80	1/4	4,309.52	1/4	4,064.90	1/4	3,820.30	1/4	3,575.31	1/4	3,243.22	1/4	2,886.19
1/2		1/2		1/2		1/2	4,548.81	1/2	4,304.42	1/2	4,059.81	1/2	3,815.20	1/2	3,569.83	1/2	3,235.78	1/2	2,878.76
3/4		3/4		3/4		3/4	4,543.82	3/4	4,299.33	3/4	4,054.71	3/4	3,810.11	3/4	3,564.35	3/4	3,228.34	3/4	2,871.32
4		4		4		4	4,538.83	4	4,294.23	4	4,049.62	4	3,805.01	4	3,558.87	4	3,220.90	4	2,863.88
1/4		1/4		1/4		1/4	4,533.74	1/4	4,289.13	1/4	4,044.52	1/4	3,799.92	1/4	3,553.08	1/4	3,213.46	1/4	2,856.44
1/2		1/2		1/2		1/2	4,528.64	1/2	4,284.04	1/2	4,039.42	1/2	3,794.82	1/2	3,547.28	1/2	3,206.03	1/2	2,849.01
3/4		3/4		3/4		3/4	4,523.55	3/4	4,278.94	3/4	4,034.33	3/4	3,789.73	3/4	3,541.49	3/4	3,198.59	3/4	2,841.57
5		5		5		5	4,518.45	5	4,273.84	5	4,029.23	5	3,784.63	5	3,535.69	5	3,191.15	5	2,834.13
1/4		1/4		1/4		1/4	4,513.36	1/4	4,268.75	1/4	4,024.13	1/4	3,779.53	1/4	3,529.55	1/4	3,183.71	1/4	2,826.69
1/2		1/2		1/2		1/2	4,508.26	1/2	4,263.65	1/2	4,019.04	1/2	3,774.44	1/2	3,523.41	1/2	3,176.28	1/2	2,819.26
3/4		3/4		3/4		3/4	4,503.17	3/4	4,258.55	3/4	4,013.94	3/4	3,769.34	3/4	3,517.27	3/4	3,168.84	3/4	2,811.82
6		6		6		6	4,498.07	6	4,253.46	6	4,008.85	6	3,764.24	6	3,511.13	6	3,161.40	6	2,804.38
1/4		1/4		1/4		1/4	4,492.97	1/4	4,248.36	1/4	4,003.76	1/4	3,759.15	1/4	3,504.65	1/4	3,153.96	1/4	2,796.94
1/2		1/2		1/2		1/2	4,487.88	1/2	4,243.26	1/2	3,998.66	1/2	3,754.05	1/2	3,498.16	1/2	3,146.53	1/2	2,789.50
3/4		3/4		3/4		3/4	4,482.78	3/4	4,238.17	3/4	3,993.57	3/4	3,748.96	3/4	3,491.68	3/4	3,139.09	3/4	2,782.06
7		7		7		7	4,477.68	7	4,233.07	7	3,988.47	7	3,743.86	7	3,485.19	7	3,131.65	7	2,774.62
1/4		1/4		1/4		1/4	4,472.59	1/4	4,227.97	1/4	3,983.37	1/4	3,738.76	1/4	3,478.36	1/4	3,124.21	1/4	2,767.18
1/2		1/2		1/2		1/2	4,467.49	1/2	4,222.88	1/2	3,978.28	1/2	3,733.67	1/2	3,471.53	1/2	3,116.78	1/2	2,759.75
3/4		3/4		3/4		3/4	4,462.40	3/4	4,217.78	3/4	3,973.18	3/4	3,728.57	3/4	3,464.70	3/4	3,109.34	3/4	2,752.31
8		8		8		8	4,457.30	8	4,212.69	8	3,968.08	8	3,723.47	8	3,457.87	8	3,101.90	8	2,744.87
1/4		1/4		1/4		1/4	4,452.20	1/4	4,207.59	1/4	3,962.99	1/4	3,718.38	1/4	3,450.69	1/4	3,094.46	1/4	2,737.43
1/2		1/2		1/2		1/2	4,447.11	1/2	4,202.50	1/2	3,957.89	1/2	3,713.28	1/2	3,443.52	1/2	3,087.02	1/2	2,730.00
3/4		3/4		3/4		3/4	4,442.01	3/4	4,197.40	3/4	3,952.80	3/4	3,708.19	3/4	3,436.34	3/4	3,079.58	3/4	2,722.56
9		9		9		9	4,436.91	9	4,192.31	9	3,947.70	9	3,703.09	9	3,429.16	9	3,072.14	9	2,715.12
1/4		1/4		1/4		1/4	4,431.82	1/4	4,187.21	1/4	3,942.60	1/4	3,698.00	1/4	3,421.73	1/4	3,064.70	1/4	2,707.68
1/2		1/2		1/2		1/2	4,426.72	1/2	4,182.11	1/2	3,937.51	1/2	3,692.90	1/2	3,414.29	1/2	3,057.27	1/2	2,700.25
3/4		3/4		3/4		3/4	4,421.63	3/4	4,177.02	3/4	3,932.41	3/4	3,687.81	3/4	3,406.86	3/4	3,049.83	3/4	2,692.81
10		10		10		10	4,416.53	10	4,171.92	10	3,927.31	10	3,682.71	10	3,399.42	10	3,042.39	10	2,685.37
1/4		1/4		1/4		1/4	4,411.44	1/4	4,166.82	1/4	3,922.22	1/4	3,677.61	1/4	3,391.98	1/4	3,034.95	1/4	2,677.93
1/2		1/2		1/2		1/2	4,406.34	1/2	4,161.73	1/2	3,917.12	1/2	3,672.52	1/2	3,384.54	1/2	3,027.52	1/2	2,670.50
3/4		3/4		3/4		3/4	4,401.25	3/4	4,156.63	3/4	3,912.03	3/4	3,667.42	3/4	3,377.10	3/4	3,020.08	3/4	2,663.06
11		11		11		11	4,396.15	11	4,151.54	11	3,906.93	11	3,662.32	11	3,369.66	11	3,012.64	11	2,655.62
1/4		1/4		1/4		1/4	4,391.05	1/4	4,146.44	1/4	3,901.84	1/4	3,657.23	1/4	3,362.22	1/4	3,005.20	1/4	2,648.18
1/2		1/2		1/2		1/2	4,385.96	1/2	4,141.34	1/2	3,896.74	1/2	3,652.13	1/2	3,354.79	1/2	2,997.77	1/2	2,640.74
3/4		3/4		3/4		3/4	4,380.86	3/4	4,136.25	3/4	3,891.65	3/4	3,647.04	3/4	3,347.35	3/4	2,990.33	3/4	2,633.30

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'-09" OFF CENTERLINE AND 45'-09" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "HTCO 3060"

3 STBD

ULLAGE TABLE
HERMETIC

GAUGE HEIGHT 17'-03 1/4"

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	2,625.86	0	2,268.84	0	1,911.82	0	1,554.79	0	1,197.77	0	837.42	0	473.42	0	111.11	0		0	
1/4	2,618.42	1/4	2,261.40	1/4	1,904.38	1/4	1,547.35	1/4	1,190.33	1/4	829.85	1/4	465.82	1/4	103.75	1/4		1/4	
1/2	2,610.99	1/2	2,253.97	1/2	1,896.94	1/2	1,539.92	1/2	1,182.90	1/2	822.29	1/2	458.22	1/2	96.40	1/2		1/2	
3/4	2,603.55	3/4	2,246.53	3/4	1,889.50	3/4	1,532.48	3/4	1,175.46	3/4	814.72	3/4	450.62	3/4	89.04	3/4		3/4	
1	2,596.11	1	2,239.09	1	1,882.06	1	1,525.04	1	1,168.02	1	807.15	1	443.02	1	81.68	1		1	
1/4	2,588.67	1/4	2,231.65	1/4	1,874.62	1/4	1,517.60	1/4	1,160.58	1/4	799.59	1/4	435.42	1/4	74.32	1/4		1/4	
1/2	2,581.24	1/2	2,224.22	1/2	1,867.19	1/2	1,510.17	1/2	1,153.14	1/2	792.02	1/2	427.83	1/2	66.97	1/2		1/2	
3/4	2,573.80	3/4	2,216.78	3/4	1,859.75	3/4	1,502.73	3/4	1,145.70	3/4	784.46	3/4	420.23	3/4	59.61	3/4		3/4	
2	2,566.36	2	2,209.34	2	1,852.31	2	1,495.29	2	1,138.26	2	776.89	2	412.63	2	52.25	2		2	
1/4	2,558.92	1/4	2,201.90	1/4	1,844.87	1/4	1,487.85	1/4	1,130.82	1/4	769.32	1/4	405.03	1/4	46.25	1/4		1/4	
1/2	2,551.49	1/2	2,194.46	1/2	1,837.44	1/2	1,480.42	1/2	1,123.39	1/2	761.76	1/2	397.44	1/2	40.25	1/2		1/2	
3/4	2,544.05	3/4	2,187.02	3/4	1,830.00	3/4	1,472.98	3/4	1,115.95	3/4	754.19	3/4	389.84	3/4	34.25	3/4		3/4	
3	2,536.61	3	2,179.58	3	1,822.56	3	1,465.54	3	1,108.51	3	746.62	3	382.24	3	28.25	3		3	
1/4	2,529.17	1/4	2,172.14	1/4	1,815.12	1/4	1,458.10	1/4	1,101.07	1/4	739.06	1/4	374.64	1/4	24.00	1/4		1/4	
1/2	2,521.74	1/2	2,164.71	1/2	1,807.69	1/2	1,450.66	1/2	1,093.64	1/2	731.49	1/2	367.05	1/2		1/2		1/2	
3/4	2,514.30	3/4	2,157.27	3/4	1,800.25	3/4	1,443.22	3/4	1,086.20	3/4	723.93	3/4	359.45	3/4		3/4		3/4	
4	2,506.86	4	2,149.83	4	1,792.81	4	1,435.78	4	1,078.76	4	716.36	4	351.85	4		4		4	
1/4	2,499.42	1/4	2,142.39	1/4	1,785.37	1/4	1,428.34	1/4	1,071.32	1/4	708.80	1/4	344.25	1/4		1/4		1/4	
1/2	2,491.98	1/2	2,134.96	1/2	1,777.94	1/2	1,420.91	1/2	1,063.89	1/2	701.23	1/2	336.66	1/2		1/2		1/2	
3/4	2,484.54	3/4	2,127.52	3/4	1,770.50	3/4	1,413.47	3/4	1,056.45	3/4	693.67	3/4	329.06	3/4		3/4		3/4	
5	2,477.10	5	2,120.08	5	1,763.06	5	1,406.03	5	1,049.01	5	686.10	5	321.46	5		5		5	
1/4	2,469.66	1/4	2,112.64	1/4	1,755.62	1/4	1,398.59	1/4	1,041.51	1/4	678.52	1/4	313.86	1/4		1/4		1/4	
1/2	2,462.23	1/2	2,105.21	1/2	1,748.18	1/2	1,391.16	1/2	1,034.01	1/2	670.94	1/2	306.26	1/2		1/2		1/2	
3/4	2,454.79	3/4	2,097.77	3/4	1,740.74	3/4	1,383.72	3/4	1,026.50	3/4	663.35	3/4	298.66	3/4		3/4		3/4	
6	2,447.35	6	2,090.33	6	1,733.30	6	1,376.28	6	1,019.00	6	655.77	6	291.06	6		6		6	
1/4	2,439.91	1/4	2,082.89	1/4	1,725.86	1/4	1,368.84	1/4	1,011.44	1/4	648.17	1/4	283.46	1/4		1/4		1/4	
1/2	2,432.48	1/2	2,075.46	1/2	1,718.43	1/2	1,361.41	1/2	1,003.87	1/2	640.58	1/2	275.87	1/2		1/2		1/2	
3/4	2,425.04	3/4	2,068.02	3/4	1,710.99	3/4	1,353.97	3/4	996.31	3/4	632.98	3/4	268.27	3/4		3/4		3/4	
7	2,417.60	7	2,060.58	7	1,703.55	7	1,346.53	7	988.74	7	625.38	7	260.67	7		7		7	
1/4	2,410.16	1/4	2,053.14	1/4	1,696.11	1/4	1,339.09	1/4	981.17	1/4	617.78	1/4	253.07	1/4		1/4		1/4	
1/2	2,402.73	1/2	2,045.70	1/2	1,688.68	1/2	1,331.66	1/2	973.61	1/2	610.18	1/2	245.48	1/2		1/2		1/2	
3/4	2,395.29	3/4	2,038.26	3/4	1,681.24	3/4	1,324.22	3/4	966.04	3/4	602.58	3/4	237.88	3/4		3/4		3/4	
8	2,387.85	8	2,030.82	8	1,673.80	8	1,316.78	8	958.47	8	594.98	8	230.28	8		8		8	
1/4	2,380.41	1/4	2,023.38	1/4	1,666.36	1/4	1,309.34	1/4	950.91	1/4	587.38	1/4	222.68	1/4		1/4		1/4	
1/2	2,372.98	1/2	2,015.95	1/2	1,658.93	1/2	1,301.90	1/2	943.34	1/2	579.79	1/2	215.09	1/2		1/2		1/2	
3/4	2,365.54	3/4	2,008.51	3/4	1,651.49	3/4	1,294.46	3/4	935.78	3/4	572.19	3/4	207.49	3/4		3/4		3/4	
9	2,358.10	9	2,001.07	9	1,644.05	9	1,287.02	9	928.21	9	564.59	9	199.89	9		9		9	
1/4	2,350.66	1/4	1,993.63	1/4	1,636.61	1/4	1,279.58	1/4	920.64	1/4	556.99	1/4	192.41	1/4		1/4		1/4	
1/2	2,343.22	1/2	1,986.20	1/2	1,629.18	1/2	1,272.15	1/2	913.08	1/2	549.40	1/2	184.94	1/2		1/2		1/2	
3/4	2,335.78	3/4	1,978.76	3/4	1,621.74	3/4	1,264.71	3/4	905.51	3/4	541.80	3/4	177.46	3/4		3/4		3/4	
10	2,328.34	10	1,971.32	10	1,614.30	10	1,257.27	10	897.94	10	534.20	10	169.98	10		10		10	
1/4	2,320.90	1/4	1,963.88	1/4	1,606.86	1/4	1,249.83	1/4	890.38	1/4	526.60	1/4	162.62	1/4		1/4		1/4	
1/2	2,313.47	1/2	1,956.45	1/2	1,599.42	1/2	1,242.40	1/2	882.81	1/2	519.01	1/2	155.26	1/2		1/2		1/2	
3/4	2,306.03	3/4	1,949.01	3/4	1,591.98	3/4	1,234.96	3/4	875.25	3/4	511.41	3/4	147.90	3/4		3/4		3/4	
11	2,298.59	11	1,941.57	11	1,584.54	11	1,227.52	11	867.68	11	503.81	11	140.54	11		11		11	
1/4	2,291.15	1/4	1,934.13	1/4	1,577.10	1/4	1,220.08	1/4	860.12	1/4	496.21	1/4	133.18	1/4		1/4		1/4	
1/2	2,283.72	1/2	1,926.70	1/2	1,569.67	1/2	1,212.65	1/2	852.55	1/2	488.62	1/2	125.83	1/2		1/2		1/2	
3/4	2,276.28	3/4	1,919.26	3/4	1,562.23	3/4	1,205.21	3/4	844.99	3/4	481.02	3/4	118.47	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/19/2007 INS
RECALCULATED: 08/08/2019 CL
REPRINTED: 08/08/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2019

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