



BARGE "HTCO 3089"

ULLAGE TRIM TABLE (HERMETIC)

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-3/8	- 00-3/8	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	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-5/8	- 00-5/8	00-3/4	- 00-3/4
2 PORT	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-1/4
2 STBD	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-1/2	- 00-1/2	00-5/8	- 00-5/8
3 PORT	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-3/8	- 00-3/8
3 STBD	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-5/8	- 00-5/8	00-3/4	- 00-3/4

(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: 237'-09"

May 18, 2018

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

<http://www.pmacorp.net>



BARGE "HTCO 3089"

1 PORT ULLAGE TABLE HERMETIC GAUGE HEIGHT 17'-04"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0		0	4,698.17	0	4,341.44	0	3,983.45	0	3,625.39	0	3,267.33	0	2,909.25
1/4		1/4		1/4		1/4		1/4	4,690.77	1/4	4,334.01	1/4	3,975.99	1/4	3,617.93	1/4	3,259.87	1/4	2,901.79
1/2		1/2		1/2		1/2		1/2	4,683.37	1/2	4,326.56	1/2	3,968.53	1/2	3,610.47	1/2	3,252.41	1/2	2,894.32
3/4		3/4		3/4		3/4		3/4	4,675.97	3/4	4,319.11	3/4	3,961.07	3/4	3,603.01	3/4	3,244.95	3/4	2,886.86
1		1		1		1	5,010.74	1	4,668.57	1	4,311.66	1	3,953.61	1	3,595.55	1	3,237.49	1	2,879.39
1/4		1/4		1/4		1/4	5,006.00	1/4	4,661.17	1/4	4,304.21	1/4	3,946.15	1/4	3,588.09	1/4	3,230.03	1/4	2,871.93
1/2		1/2		1/2		1/2	5,000.73	1/2	4,653.77	1/2	4,296.75	1/2	3,938.69	1/2	3,580.63	1/2	3,222.57	1/2	2,864.47
3/4		3/4		3/4		3/4	4,994.93	3/4	4,646.35	3/4	4,289.29	3/4	3,931.23	3/4	3,573.17	3/4	3,215.11	3/4	2,857.00
2		2		2		2	4,989.13	2	4,638.93	2	4,281.84	2	3,923.77	2	3,565.71	2	3,207.65	2	2,849.54
1/4		1/4		1/4		1/4	4,983.33	1/4	4,631.51	1/4	4,274.38	1/4	3,916.31	1/4	3,558.25	1/4	3,200.19	1/4	2,842.08
1/2		1/2		1/2		1/2	4,977.02	1/2	4,624.08	1/2	4,266.92	1/2	3,908.86	1/2	3,550.79	1/2	3,192.73	1/2	2,834.61
3/4		3/4		3/4		3/4	4,970.22	3/4	4,616.65	3/4	4,259.46	3/4	3,901.40	3/4	3,543.33	3/4	3,185.27	3/4	2,827.15
3		3		3		3	4,963.42	3	4,609.21	3	4,252.00	3	3,893.94	3	3,535.88	3	3,177.81	3	2,819.69
1/4		1/4		1/4		1/4	4,956.61	1/4	4,601.77	1/4	4,244.54	1/4	3,886.48	1/4	3,528.42	1/4	3,170.35	1/4	2,812.22
1/2		1/2		1/2		1/2	4,949.54	1/2	4,594.33	1/2	4,237.08	1/2	3,879.02	1/2	3,520.96	1/2	3,162.90	1/2	2,804.76
3/4		3/4		3/4		3/4	4,942.21	3/4	4,586.90	3/4	4,229.62	3/4	3,871.56	3/4	3,513.50	3/4	3,155.44	3/4	2,797.30
4		4		4		4	4,934.87	4	4,579.46	4	4,222.16	4	3,864.10	4	3,506.04	4	3,147.98	4	2,789.83
1/4		1/4		1/4		1/4	4,927.53	1/4	4,572.02	1/4	4,214.70	1/4	3,856.64	1/4	3,498.58	1/4	3,140.52	1/4	2,782.37
1/2		1/2		1/2		1/2	4,920.16	1/2	4,564.58	1/2	4,207.24	1/2	3,849.18	1/2	3,491.12	1/2	3,133.06	1/2	2,774.90
3/4		3/4		3/4		3/4	4,912.76	3/4	4,557.14	3/4	4,199.78	3/4	3,841.72	3/4	3,483.66	3/4	3,125.60	3/4	2,767.44
5		5		5		5	4,905.36	5	4,549.71	5	4,192.32	5	3,834.26	5	3,476.20	5	3,118.14	5	2,759.98
1/4		1/4		1/4		1/4	4,897.96	1/4	4,542.27	1/4	4,184.86	1/4	3,826.80	1/4	3,468.74	1/4	3,110.68	1/4	2,752.51
1/2		1/2		1/2		1/2	4,890.55	1/2	4,534.83	1/2	4,177.40	1/2	3,819.34	1/2	3,461.28	1/2	3,103.22	1/2	2,745.05
3/4		3/4		3/4		3/4	4,883.15	3/4	4,527.39	3/4	4,169.94	3/4	3,811.88	3/4	3,453.82	3/4	3,095.76	3/4	2,737.59
6		6		6		6	4,875.75	6	4,519.95	6	4,162.48	6	3,804.42	6	3,446.36	6	3,088.30	6	2,730.12
1/4		1/4		1/4		1/4	4,868.35	1/4	4,512.52	1/4	4,155.02	1/4	3,796.96	1/4	3,438.90	1/4	3,080.84	1/4	2,722.66
1/2		1/2		1/2		1/2	4,860.95	1/2	4,505.08	1/2	4,147.56	1/2	3,789.50	1/2	3,431.44	1/2	3,073.38	1/2	2,715.20
3/4		3/4		3/4		3/4	4,853.54	3/4	4,497.64	3/4	4,140.10	3/4	3,782.04	3/4	3,423.98	3/4	3,065.92	3/4	2,707.73
7		7		7		7	4,846.14	7	4,490.20	7	4,132.64	7	3,774.58	7	3,416.52	7	3,058.46	7	2,700.27
1/4		1/4		1/4		1/4	4,838.74	1/4	4,482.76	1/4	4,125.18	1/4	3,767.12	1/4	3,409.06	1/4	3,051.00	1/4	2,692.80
1/2		1/2		1/2		1/2	4,831.34	1/2	4,475.33	1/2	4,117.72	1/2	3,759.66	1/2	3,401.60	1/2	3,043.54	1/2	2,685.34
3/4		3/4		3/4		3/4	4,823.94	3/4	4,467.89	3/4	4,110.26	3/4	3,752.20	3/4	3,394.14	3/4	3,036.08	3/4	2,677.88
8		8		8		8	4,816.54	8	4,460.45	8	4,102.80	8	3,744.74	8	3,386.68	8	3,028.62	8	2,670.41
1/4		1/4		1/4		1/4	4,809.14	1/4	4,453.01	1/4	4,095.35	1/4	3,737.28	1/4	3,379.22	1/4	3,021.16	1/4	2,662.95
1/2		1/2		1/2		1/2	4,801.74	1/2	4,445.58	1/2	4,087.89	1/2	3,729.82	1/2	3,371.76	1/2	3,013.70	1/2	2,655.49
3/4		3/4		3/4		3/4	4,794.34	3/4	4,438.14	3/4	4,080.43	3/4	3,722.37	3/4	3,364.30	3/4	3,006.24	3/4	2,648.02
9		9		9		9	4,786.94	9	4,430.70	9	4,072.97	9	3,714.91	9	3,356.84	9	2,998.78	9	2,640.56
1/4		1/4		1/4		1/4	4,779.54	1/4	4,423.26	1/4	4,065.51	1/4	3,707.45	1/4	3,349.39	1/4	2,991.32	1/4	2,633.10
1/2		1/2		1/2		1/2	4,772.15	1/2	4,415.82	1/2	4,058.05	1/2	3,699.99	1/2	3,341.93	1/2	2,983.86	1/2	2,625.63
3/4		3/4		3/4		3/4	4,764.75	3/4	4,408.39	3/4	4,050.59	3/4	3,692.53	3/4	3,334.47	3/4	2,976.41	3/4	2,618.17
10		10		10		10	4,757.35	10	4,400.95	10	4,043.13	10	3,685.07	10	3,327.01	10	2,968.95	10	2,610.71
1/4		1/4		1/4		1/4	4,749.95	1/4	4,393.51	1/4	4,035.67	1/4	3,677.61	1/4	3,319.55	1/4	2,961.49	1/4	2,603.24
1/2		1/2		1/2		1/2	4,742.55	1/2	4,386.07	1/2	4,028.21	1/2	3,670.15	1/2	3,312.09	1/2	2,954.03	1/2	2,595.78
3/4		3/4		3/4		3/4	4,735.16	3/4	4,378.63	3/4	4,020.75	3/4	3,662.69	3/4	3,304.63	3/4	2,946.57	3/4	2,588.31
11		11		11		11	4,727.76	11	4,371.20	11	4,013.29	11	3,655.23	11	3,297.17	11	2,939.11	11	2,580.85
1/4		1/4		1/4		1/4	4,720.36	1/4	4,363.76	1/4	4,005.83	1/4	3,647.77	1/4	3,289.71	1/4	2,931.65	1/4	2,573.39
1/2		1/2		1/2		1/2	4,712.96	1/2	4,356.32	1/2	3,998.37	1/2	3,640.31	1/2	3,282.25	1/2	2,924.18	1/2	2,565.92
3/4		3/4		3/4		3/4	4,705.56	3/4	4,348.88	3/4	3,990.91	3/4	3,632.85	3/4	3,274.79	3/4	2,916.72	3/4	2,558.46

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" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 11'-00" OFF CENTERLINE AND 45'-09" FORWARD OF AFT BULKHEAD.

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BARGE "HTCO 3089"

1 PORT ULLAGE TABLE HERMETIC GAUGE HEIGHT 17'-04"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,551.00	0	2,192.74	0	1,834.49	0	1,476.24	0	1,118.02	0	761.91	0	408.10	0	92.56	0		0	
1/4	2,543.53	1/4	2,185.28	1/4	1,827.03	1/4	1,468.77	1/4	1,110.57	1/4	754.47	1/4	401.04	1/4	86.44	1/4		1/4	
1/2	2,536.07	1/2	2,177.82	1/2	1,819.56	1/2	1,461.31	1/2	1,103.13	1/2	747.02	1/2	394.03	1/2	80.37	1/2		1/2	
3/4	2,528.61	3/4	2,170.35	3/4	1,812.10	3/4	1,453.85	3/4	1,095.70	3/4	739.56	3/4	387.05	3/4	74.35	3/4		3/4	
1	2,521.14	1	2,162.89	1	1,804.64	1	1,446.38	1	1,088.26	1	732.09	1	380.08	1	68.32	1		1	
1/4	2,513.68	1/4	2,155.43	1/4	1,797.17	1/4	1,438.92	1/4	1,080.83	1/4	724.63	1/4	373.11	1/4	62.29	1/4		1/4	
1/2	2,506.21	1/2	2,147.96	1/2	1,789.71	1/2	1,431.46	1/2	1,073.40	1/2	717.17	1/2	366.17	1/2	56.53	1/2		1/2	
3/4	2,498.75	3/4	2,140.50	3/4	1,782.25	3/4	1,423.99	3/4	1,065.97	3/4	709.70	3/4	359.27	3/4	51.05	3/4		3/4	
2	2,491.29	2	2,133.03	2	1,774.78	2	1,416.53	2	1,058.54	2	702.24	2	352.37	2	45.57	2		2	
1/4	2,483.82	1/4	2,125.57	1/4	1,767.32	1/4	1,409.07	1/4	1,051.12	1/4	694.78	1/4	345.47	1/4	40.09	1/4		1/4	
1/2	2,476.36	1/2	2,118.11	1/2	1,759.85	1/2	1,401.60	1/2	1,043.69	1/2	687.31	1/2	338.61	1/2	35.35	1/2		1/2	
3/4	2,468.90	3/4	2,110.64	3/4	1,752.39	3/4	1,394.14	3/4	1,036.27	3/4	679.85	3/4	331.78	3/4	31.35	3/4		3/4	
3	2,461.43	3	2,103.18	3	1,744.93	3	1,386.67	3	1,028.85	3	672.39	3	324.96	3	27.35	3		3	
1/4	2,453.97	1/4	2,095.72	1/4	1,737.46	1/4	1,379.21	1/4	1,021.43	1/4	664.92	1/4	318.13	1/4	23.35	1/4		1/4	
1/2	2,446.51	1/2	2,088.25	1/2	1,730.00	1/2	1,371.75	1/2	1,014.02	1/2	657.46	1/2	311.35	1/2	19.89	1/2		1/2	
3/4	2,439.04	3/4	2,080.79	3/4	1,722.54	3/4	1,364.28	3/4	1,006.60	3/4	650.00	3/4	304.60	3/4	16.98	3/4		3/4	
4	2,431.58	4	2,073.33	4	1,715.07	4	1,356.82	4	999.18	4	642.53	4	297.86	4	14.06	4		4	
1/4	2,424.12	1/4	2,065.86	1/4	1,707.61	1/4	1,349.36	1/4	991.77	1/4	635.07	1/4	291.11	1/4		1/4		1/4	
1/2	2,416.65	1/2	2,058.40	1/2	1,700.15	1/2	1,341.89	1/2	984.35	1/2	627.60	1/2	284.41	1/2		1/2		1/2	
3/4	2,409.19	3/4	2,050.94	3/4	1,692.68	3/4	1,334.43	3/4	976.94	3/4	620.14	3/4	277.74	3/4		3/4		3/4	
5	2,401.72	5	2,043.47	5	1,685.22	5	1,326.97	5	969.53	5	612.68	5	271.08	5		5		5	
1/4	2,394.26	1/4	2,036.01	1/4	1,677.76	1/4	1,319.50	1/4	962.11	1/4	605.21	1/4	264.42	1/4		1/4		1/4	
1/2	2,386.80	1/2	2,028.54	1/2	1,670.29	1/2	1,312.04	1/2	954.70	1/2	597.75	1/2	257.79	1/2		1/2		1/2	
3/4	2,379.33	3/4	2,021.08	3/4	1,662.83	3/4	1,304.58	3/4	947.29	3/4	590.29	3/4	251.21	3/4		3/4		3/4	
6	2,371.87	6	2,013.62	6	1,655.36	6	1,297.11	6	939.88	6	582.82	6	244.63	6		6		6	
1/4	2,364.41	1/4	2,006.15	1/4	1,647.90	1/4	1,289.65	1/4	932.46	1/4	575.36	1/4	238.04	1/4		1/4		1/4	
1/2	2,356.94	1/2	1,998.69	1/2	1,640.44	1/2	1,282.18	1/2	925.05	1/2	567.91	1/2	231.50	1/2		1/2		1/2	
3/4	2,349.48	3/4	1,991.23	3/4	1,632.97	3/4	1,274.72	3/4	917.64	3/4	560.47	3/4	225.00	3/4		3/4		3/4	
7	2,342.02	7	1,983.76	7	1,625.51	7	1,267.26	7	910.23	7	553.03	7	218.50	7		7		7	
1/4	2,334.55	1/4	1,976.30	1/4	1,618.05	1/4	1,259.79	1/4	902.81	1/4	545.58	1/4	212.00	1/4		1/4		1/4	
1/2	2,327.09	1/2	1,968.84	1/2	1,610.58	1/2	1,252.33	1/2	895.40	1/2	538.17	1/2	205.54	1/2		1/2		1/2	
3/4	2,319.62	3/4	1,961.37	3/4	1,603.12	3/4	1,244.87	3/4	887.99	3/4	530.79	3/4	199.12	3/4		3/4		3/4	
8	2,312.16	8	1,953.91	8	1,595.66	8	1,237.40	8	880.57	8	523.42	8	192.70	8		8		8	
1/4	2,304.70	1/4	1,946.44	1/4	1,588.19	1/4	1,229.94	1/4	873.16	1/4	516.04	1/4	186.28	1/4		1/4		1/4	
1/2	2,297.23	1/2	1,938.98	1/2	1,580.73	1/2	1,222.48	1/2	865.75	1/2	508.70	1/2	179.89	1/2		1/2		1/2	
3/4	2,289.77	3/4	1,931.52	3/4	1,573.26	3/4	1,215.01	3/4	858.34	3/4	501.40	3/4	173.55	3/4		3/4		3/4	
9	2,282.31	9	1,924.05	9	1,565.80	9	1,207.55	9	850.92	9	494.10	9	167.20	9		9		9	
1/4	2,274.84	1/4	1,916.59	1/4	1,558.34	1/4	1,200.08	1/4	843.51	1/4	486.80	1/4	160.86	1/4		1/4		1/4	
1/2	2,267.38	1/2	1,909.13	1/2	1,550.87	1/2	1,192.62	1/2	836.10	1/2	479.54	1/2	154.55	1/2		1/2		1/2	
3/4	2,259.92	3/4	1,901.66	3/4	1,543.41	3/4	1,185.16	3/4	828.69	3/4	472.33	3/4	148.28	3/4		3/4		3/4	
10	2,252.45	10	1,894.20	10	1,535.95	10	1,177.69	10	821.27	10	465.11	10	142.01	10		10		10	
1/4	2,244.99	1/4	1,886.74	1/4	1,528.48	1/4	1,170.23	1/4	813.86	1/4	457.89	1/4	135.73	1/4		1/4		1/4	
1/2	2,237.53	1/2	1,879.27	1/2	1,521.02	1/2	1,162.77	1/2	806.45	1/2	450.71	1/2	129.50	1/2		1/2		1/2	
3/4	2,230.06	3/4	1,871.81	3/4	1,513.56	3/4	1,155.30	3/4	799.04	3/4	443.57	3/4	123.31	3/4		3/4		3/4	
11	2,222.60	11	1,864.35	11	1,506.09	11	1,147.84	11	791.62	11	436.44	11	117.12	11		11		11	
1/4	2,215.13	1/4	1,856.88	1/4	1,498.63	1/4	1,140.38	1/4	784.21	1/4	429.30	1/4	110.93	1/4		1/4		1/4	
1/2	2,207.67	1/2	1,849.42	1/2	1,491.17	1/2	1,132.92	1/2	776.78	1/2	422.21	1/2	104.78	1/2		1/2		1/2	
3/4	2,200.21	3/4	1,841.95	3/4	1,483.70	3/4	1,125.47	3/4	769.35	3/4	415.15	3/4	98.67	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/22/2012 CL - SW
RECALCULATED: 05/19/2018 CL
REPRINTED: 05/21/2018 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2018

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "HTCO 3089"

1 STBD

ULLAGE TABLE

HERMETIC

GAUGE HEIGHT 17'-03 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	4,693.01	0	4,336.21	0	3,978.16	0	3,620.06	0	3,261.96	0	2,903.86		
1/4		1/4		1/4		1/4	4,685.61	1/4	4,328.76	1/4	3,970.70	1/4	3,612.60	1/4	3,254.50	1/4	2,896.40		
1/2		1/2		1/2		1/2	4,678.21	1/2	4,321.31	1/2	3,963.24	1/2	3,605.14	1/2	3,247.04	1/2	2,888.94		
3/4		3/4		3/4		3/4	5,013.00	3/4	4,670.81	3/4	4,313.86	3/4	3,955.78	3/4	3,597.68	3/4	3,239.58	3/4	2,881.47
1		1		1		1	5,008.26	1	4,663.41	1	4,306.41	1	3,948.32	1	3,590.22	1	3,232.12	1	2,874.01
1/4		1/4		1/4		1/4	5,002.99	1/4	4,656.00	1/4	4,298.95	1/4	3,940.86	1/4	3,582.76	1/4	3,224.66	1/4	2,866.54
1/2		1/2		1/2		1/2	4,997.19	1/2	4,648.58	1/2	4,291.49	1/2	3,933.39	1/2	3,575.30	1/2	3,217.20	1/2	2,859.08
3/4		3/4		3/4		3/4	4,991.39	3/4	4,641.16	3/4	4,284.03	3/4	3,925.93	3/4	3,567.84	3/4	3,209.74	3/4	2,851.61
2		2		2		2	4,985.58	2	4,633.74	2	4,276.57	2	3,918.47	2	3,560.37	2	3,202.28	2	2,844.15
1/4		1/4		1/4		1/4	4,979.28	1/4	4,626.32	1/4	4,269.11	1/4	3,911.01	1/4	3,552.91	1/4	3,194.82	1/4	2,836.69
1/2		1/2		1/2		1/2	4,972.48	1/2	4,618.88	1/2	4,261.65	1/2	3,903.55	1/2	3,545.45	1/2	3,187.35	1/2	2,829.22
3/4		3/4		3/4		3/4	4,965.68	3/4	4,611.44	3/4	4,254.19	3/4	3,896.09	3/4	3,537.99	3/4	3,179.89	3/4	2,821.76
3		3		3		3	4,958.87	3	4,604.00	3	4,246.73	3	3,888.63	3	3,530.53	3	3,172.43	3	2,814.29
1/4		1/4		1/4		1/4	4,951.80	1/4	4,596.56	1/4	4,239.27	1/4	3,881.17	1/4	3,523.07	1/4	3,164.97	1/4	2,806.83
1/2		1/2		1/2		1/2	4,944.47	1/2	4,589.12	1/2	4,231.81	1/2	3,873.71	1/2	3,515.61	1/2	3,157.51	1/2	2,799.36
3/4		3/4		3/4		3/4	4,937.13	3/4	4,581.68	3/4	4,224.35	3/4	3,866.25	3/4	3,508.15	3/4	3,150.05	3/4	2,791.90
4		4		4		4	4,929.80	4	4,574.25	4	4,216.89	4	3,858.79	4	3,500.69	4	3,142.59	4	2,784.43
1/4		1/4		1/4		1/4	4,922.43	1/4	4,566.81	1/4	4,209.43	1/4	3,851.33	1/4	3,493.23	1/4	3,135.13	1/4	2,776.97
1/2		1/2		1/2		1/2	4,915.03	1/2	4,559.37	1/2	4,201.97	1/2	3,843.87	1/2	3,485.77	1/2	3,127.67	1/2	2,769.50
3/4		3/4		3/4		3/4	4,907.62	3/4	4,551.93	3/4	4,194.51	3/4	3,836.41	3/4	3,478.31	3/4	3,120.21	3/4	2,762.04
5		5		5		5	4,900.22	5	4,544.49	5	4,187.05	5	3,828.95	5	3,470.85	5	3,112.75	5	2,754.58
1/4		1/4		1/4		1/4	4,892.82	1/4	4,537.05	1/4	4,179.59	1/4	3,821.49	1/4	3,463.39	1/4	3,105.29	1/4	2,747.11
1/2		1/2		1/2		1/2	4,885.41	1/2	4,529.61	1/2	4,172.13	1/2	3,814.03	1/2	3,455.93	1/2	3,097.83	1/2	2,739.65
3/4		3/4		3/4		3/4	4,878.01	3/4	4,522.17	3/4	4,164.67	3/4	3,806.57	3/4	3,448.47	3/4	3,090.37	3/4	2,732.18
6		6		6		6	4,870.61	6	4,514.74	6	4,157.21	6	3,799.11	6	3,441.01	6	3,082.91	6	2,724.72
1/4		1/4		1/4		1/4	4,863.20	1/4	4,507.30	1/4	4,149.75	1/4	3,791.65	1/4	3,433.55	1/4	3,075.45	1/4	2,717.25
1/2		1/2		1/2		1/2	4,855.80	1/2	4,499.86	1/2	4,142.29	1/2	3,784.19	1/2	3,426.09	1/2	3,067.99	1/2	2,709.79
3/4		3/4		3/4		3/4	4,848.40	3/4	4,492.42	3/4	4,134.83	3/4	3,776.73	3/4	3,418.63	3/4	3,060.53	3/4	2,702.32
7		7		7		7	4,841.00	7	4,484.98	7	4,127.37	7	3,769.27	7	3,411.17	7	3,053.07	7	2,694.86
1/4		1/4		1/4		1/4	4,833.59	1/4	4,477.54	1/4	4,119.90	1/4	3,761.81	1/4	3,403.71	1/4	3,045.61	1/4	2,687.40
1/2		1/2		1/2		1/2	4,826.19	1/2	4,470.10	1/2	4,112.44	1/2	3,754.35	1/2	3,396.25	1/2	3,038.15	1/2	2,679.93
3/4		3/4		3/4		3/4	4,818.79	3/4	4,462.66	3/4	4,104.98	3/4	3,746.88	3/4	3,388.79	3/4	3,030.69	3/4	2,672.47
8		8		8		8	4,811.39	8	4,455.23	8	4,097.52	8	3,739.42	8	3,381.33	8	3,023.23	8	2,665.00
1/4		1/4		1/4		1/4	4,803.99	1/4	4,447.79	1/4	4,090.06	1/4	3,731.96	1/4	3,373.86	1/4	3,015.77	1/4	2,657.54
1/2		1/2		1/2		1/2	4,796.59	1/2	4,440.35	1/2	4,082.60	1/2	3,724.50	1/2	3,366.40	1/2	3,008.31	1/2	2,650.07
3/4		3/4		3/4		3/4	4,789.19	3/4	4,432.91	3/4	4,075.14	3/4	3,717.04	3/4	3,358.94	3/4	3,000.84	3/4	2,642.61
9		9		9		9	4,781.79	9	4,425.47	9	4,067.68	9	3,709.58	9	3,351.48	9	2,993.38	9	2,635.14
1/4		1/4		1/4		1/4	4,774.40	1/4	4,418.03	1/4	4,060.22	1/4	3,702.12	1/4	3,344.02	1/4	2,985.92	1/4	2,627.68
1/2		1/2		1/2		1/2	4,767.00	1/2	4,410.59	1/2	4,052.76	1/2	3,694.66	1/2	3,336.56	1/2	2,978.46	1/2	2,620.21
3/4		3/4		3/4		3/4	4,759.60	3/4	4,403.16	3/4	4,045.30	3/4	3,687.20	3/4	3,329.10	3/4	2,971.00	3/4	2,612.75
10		10		10		10	4,752.20	10	4,395.72	10	4,037.84	10	3,679.74	10	3,321.64	10	2,963.54	10	2,605.29
1/4		1/4		1/4		1/4	4,744.80	1/4	4,388.28	1/4	4,030.38	1/4	3,672.28	1/4	3,314.18	1/4	2,956.08	1/4	2,597.82
1/2		1/2		1/2		1/2	4,737.40	1/2	4,380.84	1/2	4,022.92	1/2	3,664.82	1/2	3,306.72	1/2	2,948.62	1/2	2,590.36
3/4		3/4		3/4		3/4	4,730.00	3/4	4,373.40	3/4	4,015.46	3/4	3,657.36	3/4	3,299.26	3/4	2,941.16	3/4	2,582.89
11		11		11		11	4,722.60	11	4,365.96	11	4,008.00	11	3,649.90	11	3,291.80	11	2,933.70	11	2,575.43
1/4		1/4		1/4		1/4	4,715.20	1/4	4,358.52	1/4	4,000.54	1/4	3,642.44	1/4	3,284.34	1/4	2,926.24	1/4	2,567.96
1/2		1/2		1/2		1/2	4,707.80	1/2	4,351.08	1/2	3,993.08	1/2	3,634.98	1/2	3,276.88	1/2	2,918.78	1/2	2,560.50
3/4		3/4		3/4		3/4	4,700.41	3/4	4,343.65	3/4	3,985.62	3/4	3,627.52	3/4	3,269.42	3/4	2,911.32	3/4	2,553.03

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 11'-00" OFF CENTERLINE AND 45'-03" FORWARD OF AFT BULKHEAD.

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



BARGE "HTCO 3089"

1 STBD
ULLAGE TABLE
HERMETIC
GAUGE HEIGHT 17'-03 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,545.57	0	2,187.27	0	1,828.98	0	1,470.68	0	1,112.39	0	754.59	0	401.16	0	86.48	0		0	
1/4	2,538.11	1/4	2,179.81	1/4	1,821.51	1/4	1,463.22	1/4	1,104.92	1/4	747.13	1/4	394.15	1/4	80.41	1/4		1/4	
1/2	2,530.64	1/2	2,172.34	1/2	1,814.05	1/2	1,455.75	1/2	1,097.46	1/2	739.66	1/2	387.17	1/2	74.38	1/2		1/2	
3/4	2,523.18	3/4	2,164.88	3/4	1,806.58	3/4	1,448.29	3/4	1,089.99	3/4	732.20	3/4	380.20	3/4	68.34	3/4		3/4	
1	2,515.71	1	2,157.42	1	1,799.12	1	1,440.82	1	1,082.53	1	724.73	1	373.22	1	62.31	1		1	
1/4	2,508.25	1/4	2,149.95	1/4	1,791.66	1/4	1,433.36	1/4	1,075.07	1/4	717.27	1/4	366.28	1/4	56.56	1/4		1/4	
1/2	2,500.78	1/2	2,142.49	1/2	1,784.19	1/2	1,425.89	1/2	1,067.60	1/2	709.80	1/2	359.38	1/2	51.07	1/2		1/2	
3/4	2,493.32	3/4	2,135.02	3/4	1,776.73	3/4	1,418.43	3/4	1,060.14	3/4	702.34	3/4	352.48	3/4	45.59	3/4		3/4	
2	2,485.85	2	2,127.56	2	1,769.26	2	1,410.97	2	1,052.68	2	694.88	2	345.58	2	40.10	2		2	
1/4	2,478.39	1/4	2,120.09	1/4	1,761.80	1/4	1,403.50	1/4	1,045.22	1/4	687.41	1/4	338.72	1/4	35.36	1/4		1/4	
1/2	2,470.92	1/2	2,112.63	1/2	1,754.33	1/2	1,396.04	1/2	1,037.76	1/2	679.95	1/2	331.89	1/2	31.36	1/2		1/2	
3/4	2,463.46	3/4	2,105.16	3/4	1,746.87	3/4	1,388.57	3/4	1,030.31	3/4	672.48	3/4	325.07	3/4	27.36	3/4		3/4	
3	2,456.00	3	2,097.70	3	1,739.40	3	1,381.11	3	1,022.85	3	665.02	3	318.24	3	23.35	3		3	
1/4	2,448.53	1/4	2,090.24	1/4	1,731.94	1/4	1,373.64	1/4	1,015.39	1/4	657.55	1/4	311.45	1/4	19.90	1/4		1/4	
1/2	2,441.07	1/2	2,082.77	1/2	1,724.47	1/2	1,366.18	1/2	1,007.94	1/2	650.09	1/2	304.70	1/2	16.98	1/2		1/2	
3/4	2,433.60	3/4	2,075.31	3/4	1,717.01	3/4	1,358.71	3/4	1,000.48	3/4	642.63	3/4	297.96	3/4	14.07	3/4		3/4	
4	2,426.14	4	2,067.84	4	1,709.55	4	1,351.25	4	993.03	4	635.16	4	291.21	4		4		4	
1/4	2,418.67	1/4	2,060.38	1/4	1,702.08	1/4	1,343.79	1/4	985.58	1/4	627.70	1/4	284.51	1/4		1/4		1/4	
1/2	2,411.21	1/2	2,052.91	1/2	1,694.62	1/2	1,336.32	1/2	978.13	1/2	620.23	1/2	277.84	1/2		1/2		1/2	
3/4	2,403.74	3/4	2,045.45	3/4	1,687.15	3/4	1,328.86	3/4	970.68	3/4	612.77	3/4	271.17	3/4		3/4		3/4	
5	2,396.28	5	2,037.98	5	1,679.69	5	1,321.39	5	963.23	5	605.30	5	264.51	5		5		5	
1/4	2,388.82	1/4	2,030.52	1/4	1,672.22	1/4	1,313.93	1/4	955.78	1/4	597.84	1/4	257.88	1/4		1/4		1/4	
1/2	2,381.35	1/2	2,023.05	1/2	1,664.76	1/2	1,306.46	1/2	948.32	1/2	590.38	1/2	251.30	1/2		1/2		1/2	
3/4	2,373.89	3/4	2,015.59	3/4	1,657.29	3/4	1,299.00	3/4	940.87	3/4	582.91	3/4	244.71	3/4		3/4		3/4	
6	2,366.42	6	2,008.13	6	1,649.83	6	1,291.53	6	933.42	6	575.45	6	238.13	6		6		6	
1/4	2,358.96	1/4	2,000.66	1/4	1,642.37	1/4	1,284.07	1/4	925.97	1/4	568.00	1/4	231.58	1/4		1/4		1/4	
1/2	2,351.49	1/2	1,993.20	1/2	1,634.90	1/2	1,276.60	1/2	918.52	1/2	560.56	1/2	225.08	1/2		1/2		1/2	
3/4	2,344.03	3/4	1,985.73	3/4	1,627.44	3/4	1,269.14	3/4	911.07	3/4	553.12	3/4	218.58	3/4		3/4		3/4	
7	2,336.56	7	1,978.27	7	1,619.97	7	1,261.68	7	903.62	7	545.68	7	212.07	7		7		7	
1/4	2,329.10	1/4	1,970.80	1/4	1,612.51	1/4	1,254.21	1/4	896.17	1/4	538.28	1/4	205.61	1/4		1/4		1/4	
1/2	2,321.63	1/2	1,963.34	1/2	1,605.04	1/2	1,246.75	1/2	888.72	1/2	530.90	1/2	199.19	1/2		1/2		1/2	
3/4	2,314.17	3/4	1,955.87	3/4	1,597.58	3/4	1,239.28	3/4	881.27	3/4	523.53	3/4	192.77	3/4		3/4		3/4	
8	2,306.71	8	1,948.41	8	1,590.11	8	1,231.82	8	873.82	8	516.16	8	186.35	8		8		8	
1/4	2,299.24	1/4	1,940.95	1/4	1,582.65	1/4	1,224.35	1/4	866.37	1/4	508.82	1/4	179.96	1/4		1/4		1/4	
1/2	2,291.78	1/2	1,933.48	1/2	1,575.18	1/2	1,216.89	1/2	858.92	1/2	501.53	1/2	173.61	1/2		1/2		1/2	
3/4	2,284.31	3/4	1,926.02	3/4	1,567.72	3/4	1,209.42	3/4	851.47	3/4	494.23	3/4	167.27	3/4		3/4		3/4	
9	2,276.85	9	1,918.55	9	1,560.26	9	1,201.96	9	844.02	9	486.94	9	160.92	9		9		9	
1/4	2,269.38	1/4	1,911.09	1/4	1,552.79	1/4	1,194.50	1/4	836.57	1/4	479.68	1/4	154.61	1/4		1/4		1/4	
1/2	2,261.92	1/2	1,903.62	1/2	1,545.33	1/2	1,187.03	1/2	829.11	1/2	472.46	1/2	148.33	1/2		1/2		1/2	
3/4	2,254.45	3/4	1,896.16	3/4	1,537.86	3/4	1,179.57	3/4	821.66	3/4	465.24	3/4	142.06	3/4		3/4		3/4	
10	2,246.99	10	1,888.69	10	1,530.40	10	1,172.10	10	814.21	10	458.02	10	135.79	10		10		10	
1/4	2,239.53	1/4	1,881.23	1/4	1,522.93	1/4	1,164.64	1/4	806.76	1/4	450.84	1/4	129.55	1/4		1/4		1/4	
1/2	2,232.06	1/2	1,873.76	1/2	1,515.47	1/2	1,157.17	1/2	799.31	1/2	443.70	1/2	123.36	1/2		1/2		1/2	
3/4	2,224.60	3/4	1,866.30	3/4	1,508.00	3/4	1,149.71	3/4	791.86	3/4	436.57	3/4	117.17	3/4		3/4		3/4	
11	2,217.13	11	1,858.84	11	1,500.54	11	1,142.24	11	784.41	11	429.43	11	110.97	11		11		11	
1/4	2,209.67	1/4	1,851.37	1/4	1,493.08	1/4	1,134.78	1/4	776.96	1/4	422.33	1/4	104.82	1/4		1/4		1/4	
1/2	2,202.20	1/2	1,843.91	1/2	1,485.61	1/2	1,127.31	1/2	769.50	1/2	415.27	1/2	98.71	1/2		1/2		1/2	
3/4	2,194.74	3/4	1,836.44	3/4	1,478.15	3/4	1,119.85	3/4	762.04	3/4	408.22	3/4	92.59	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/22/2012 CL - SW
 RECALCULATED: 05/19/2018 CL
 REPRINTED: 05/21/2018 SW

CANCELS AND SUPERCEDES
 ALL PRIOR TO 05/2018

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



BARGE "HTCO 3089"

2 PORT ULLAGE TABLE HERMETIC GAUGE HEIGHT 17'-04 1/2"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0		0	4,787.69	0	4,429.83	0	4,070.66	0	3,711.38	0	3,352.10	0	2,992.82
1/4		1/4		1/4		1/4		1/4	4,780.26	1/4	4,422.36	1/4	4,063.17	1/4	3,703.89	1/4	3,344.61	1/4	2,985.34
1/2		1/2		1/2		1/2		1/2	4,772.84	1/2	4,414.90	1/2	4,055.69	1/2	3,696.41	1/2	3,337.13	1/2	2,977.85
3/4		3/4		3/4		3/4		3/4	4,765.42	3/4	4,407.44	3/4	4,048.20	3/4	3,688.92	3/4	3,329.64	3/4	2,970.37
1		1		1		1		1	4,757.99	1	4,399.97	1	4,040.72	1	3,681.44	1	3,322.16	1	2,962.88
1/4		1/4		1/4		1/4		1/4	4,750.57	1/4	4,392.49	1/4	4,033.23	1/4	3,673.95	1/4	3,314.67	1/4	2,955.39
1/2		1/2		1/2		1/2	5,086.49	1/2	4,743.15	1/2	4,385.02	1/2	4,025.75	1/2	3,666.47	1/2	3,307.19	1/2	2,947.90
3/4		3/4		3/4		3/4	5,081.74	3/4	4,735.72	3/4	4,377.54	3/4	4,018.26	3/4	3,658.98	3/4	3,299.70	3/4	2,940.41
2		2		2		2	5,076.45	2	4,728.29	2	4,370.06	2	4,010.78	2	3,651.50	2	3,292.22	2	2,932.92
1/4		1/4		1/4		1/4	5,070.63	1/4	4,720.85	1/4	4,362.57	1/4	4,003.29	1/4	3,644.01	1/4	3,284.73	1/4	2,925.44
1/2		1/2		1/2		1/2	5,064.80	1/2	4,713.40	1/2	4,355.09	1/2	3,995.81	1/2	3,636.53	1/2	3,277.25	1/2	2,917.95
3/4		3/4		3/4		3/4	5,058.98	3/4	4,705.96	3/4	4,347.60	3/4	3,988.32	3/4	3,629.04	3/4	3,269.76	3/4	2,910.46
3		3		3		3	5,052.66	3	4,698.50	3	4,340.12	3	3,980.84	3	3,621.56	3	3,262.28	3	2,902.97
1/4		1/4		1/4		1/4	5,045.83	1/4	4,691.04	1/4	4,332.63	1/4	3,973.35	1/4	3,614.07	1/4	3,254.79	1/4	2,895.48
1/2		1/2		1/2		1/2	5,039.00	1/2	4,683.58	1/2	4,325.15	1/2	3,965.87	1/2	3,606.59	1/2	3,247.31	1/2	2,887.99
3/4		3/4		3/4		3/4	5,032.18	3/4	4,676.11	3/4	4,317.66	3/4	3,958.38	3/4	3,599.10	3/4	3,239.82	3/4	2,880.50
4		4		4		4	5,025.08	4	4,668.65	4	4,310.18	4	3,950.90	4	3,591.62	4	3,232.34	4	2,873.01
1/4		1/4		1/4		1/4	5,017.72	1/4	4,661.19	1/4	4,302.69	1/4	3,943.41	1/4	3,584.13	1/4	3,224.85	1/4	2,865.52
1/2		1/2		1/2		1/2	5,010.36	1/2	4,653.72	1/2	4,295.21	1/2	3,935.93	1/2	3,576.65	1/2	3,217.37	1/2	2,858.03
3/4		3/4		3/4		3/4	5,003.00	3/4	4,646.26	3/4	4,287.72	3/4	3,928.44	3/4	3,569.16	3/4	3,209.88	3/4	2,850.54
5		5		5		5	4,995.60	5	4,638.80	5	4,280.24	5	3,920.96	5	3,561.68	5	3,202.40	5	2,843.06
1/4		1/4		1/4		1/4	4,988.17	1/4	4,631.33	1/4	4,272.75	1/4	3,913.47	1/4	3,554.19	1/4	3,194.91	1/4	2,835.57
1/2		1/2		1/2		1/2	4,980.75	1/2	4,623.87	1/2	4,265.27	1/2	3,905.99	1/2	3,546.71	1/2	3,187.43	1/2	2,828.08
3/4		3/4		3/4		3/4	4,973.32	3/4	4,616.41	3/4	4,257.78	3/4	3,898.50	3/4	3,539.22	3/4	3,179.94	3/4	2,820.59
6		6		6		6	4,965.89	6	4,608.94	6	4,250.30	6	3,891.02	6	3,531.74	6	3,172.46	6	2,813.10
1/4		1/4		1/4		1/4	4,958.46	1/4	4,601.48	1/4	4,242.81	1/4	3,883.53	1/4	3,524.25	1/4	3,164.97	1/4	2,805.61
1/2		1/2		1/2		1/2	4,951.04	1/2	4,594.02	1/2	4,235.33	1/2	3,876.05	1/2	3,516.77	1/2	3,157.49	1/2	2,798.12
3/4		3/4		3/4		3/4	4,943.61	3/4	4,586.55	3/4	4,227.84	3/4	3,868.56	3/4	3,509.28	3/4	3,150.00	3/4	2,790.63
7		7		7		7	4,936.18	7	4,579.09	7	4,220.36	7	3,861.08	7	3,501.80	7	3,142.52	7	2,783.14
1/4		1/4		1/4		1/4	4,928.75	1/4	4,571.63	1/4	4,212.87	1/4	3,853.59	1/4	3,494.31	1/4	3,135.03	1/4	2,775.65
1/2		1/2		1/2		1/2	4,921.33	1/2	4,564.16	1/2	4,205.39	1/2	3,846.11	1/2	3,486.83	1/2	3,127.55	1/2	2,768.16
3/4		3/4		3/4		3/4	4,913.90	3/4	4,556.70	3/4	4,197.90	3/4	3,838.62	3/4	3,479.34	3/4	3,120.06	3/4	2,760.68
8		8		8		8	4,906.47	8	4,549.24	8	4,190.42	8	3,831.14	8	3,471.86	8	3,112.58	8	2,753.19
1/4		1/4		1/4		1/4	4,899.05	1/4	4,541.77	1/4	4,182.93	1/4	3,823.65	1/4	3,464.37	1/4	3,105.09	1/4	2,745.70
1/2		1/2		1/2		1/2	4,891.62	1/2	4,534.31	1/2	4,175.45	1/2	3,816.17	1/2	3,456.89	1/2	3,097.61	1/2	2,738.21
3/4		3/4		3/4		3/4	4,884.20	3/4	4,526.85	3/4	4,167.96	3/4	3,808.68	3/4	3,449.40	3/4	3,090.12	3/4	2,730.72
9		9		9		9	4,876.77	9	4,519.38	9	4,160.48	9	3,801.20	9	3,441.92	9	3,082.64	9	2,723.23
1/4		1/4		1/4		1/4	4,869.35	1/4	4,511.92	1/4	4,152.99	1/4	3,793.71	1/4	3,434.43	1/4	3,075.15	1/4	2,715.74
1/2		1/2		1/2		1/2	4,861.92	1/2	4,504.46	1/2	4,145.51	1/2	3,786.23	1/2	3,426.95	1/2	3,067.67	1/2	2,708.25
3/4		3/4		3/4		3/4	4,854.50	3/4	4,497.00	3/4	4,138.02	3/4	3,778.74	3/4	3,419.46	3/4	3,060.18	3/4	2,700.76
10		10		10		10	4,847.08	10	4,489.53	10	4,130.54	10	3,771.26	10	3,411.98	10	3,052.70	10	2,693.27
1/4		1/4		1/4		1/4	4,839.65	1/4	4,482.07	1/4	4,123.05	1/4	3,763.77	1/4	3,404.49	1/4	3,045.21	1/4	2,685.78
1/2		1/2		1/2		1/2	4,832.23	1/2	4,474.61	1/2	4,115.57	1/2	3,756.29	1/2	3,397.01	1/2	3,037.73	1/2	2,678.30
3/4		3/4		3/4		3/4	4,824.81	3/4	4,467.14	3/4	4,108.08	3/4	3,748.80	3/4	3,389.52	3/4	3,030.24	3/4	2,670.81
11		11		11		11	4,817.38	11	4,459.68	11	4,100.60	11	3,741.32	11	3,382.04	11	3,022.76	11	2,663.32
1/4		1/4		1/4		1/4	4,809.96	1/4	4,452.22	1/4	4,093.11	1/4	3,733.83	1/4	3,374.55	1/4	3,015.27	1/4	2,655.83
1/2		1/2		1/2		1/2	4,802.53	1/2	4,444.75	1/2	4,085.63	1/2	3,726.35	1/2	3,367.07	1/2	3,007.79	1/2	2,648.34
3/4		3/4		3/4		3/4	4,795.11	3/4	4,437.29	3/4	4,078.14	3/4	3,718.86	3/4	3,359.58	3/4	3,000.30	3/4	2,640.85

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.
GAUGE POINT: (HERMETIC) LOCATED 11'-00" OFF CENTERLINE AND 44'-00" FORWARD OF AFT BULKHEAD.

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



BARGE "HTCO 3089"

2 PORT ULLAGE TABLE HERMETIC GAUGE HEIGHT 17'-04 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	2,633.36	0	2,273.88	0	1,914.41	0	1,554.93	0	1,195.52	0	849.81	0	490.88	0	131.42	0		0	
1/4	2,625.87	1/4	2,266.40	1/4	1,906.92	1/4	1,547.44	1/4	1,188.18	1/4	842.48	1/4	483.40	1/4	123.93	1/4		1/4	
1/2	2,618.38	1/2	2,258.91	1/2	1,899.43	1/2	1,539.95	1/2	1,180.83	1/2	835.14	1/2	475.91	1/2	116.44	1/2		1/2	
3/4	2,610.89	3/4	2,251.42	3/4	1,891.94	3/4	1,532.46	3/4	1,173.48	3/4	827.81	3/4	468.42	3/4	108.95	3/4		3/4	
1	2,603.40	1	2,243.93	1	1,884.45	1	1,524.97	1	1,166.20	1	820.40	1	460.93	1	101.46	1		1	
1/4	2,595.92	1/4	2,236.44	1/4	1,876.96	1/4	1,517.49	1/4	1,159.00	1/4	812.91	1/4	453.44	1/4	93.97	1/4		1/4	
1/2	2,588.43	1/2	2,228.95	1/2	1,869.47	1/2	1,510.00	1/2	1,151.79	1/2	805.42	1/2	445.95	1/2	86.48	1/2		1/2	
3/4	2,580.94	3/4	2,221.46	3/4	1,861.98	3/4	1,502.51	3/4	1,144.59	3/4	797.93	3/4	438.46	3/4	78.99	3/4		3/4	
2	2,573.45	2	2,213.97	2	1,854.49	2	1,495.02	2	1,137.38	2	790.44	2	430.97	2	71.74	2		2	
1/4	2,565.96	1/4	2,206.48	1/4	1,847.01	1/4	1,487.53	1/4	1,130.18	1/4	782.95	1/4	423.48	1/4	64.72	1/4		1/4	
1/2	2,558.47	1/2	2,198.99	1/2	1,839.52	1/2	1,480.04	1/2	1,122.98	1/2	775.46	1/2	416.00	1/2	57.70	1/2		1/2	
3/4	2,550.98	3/4	2,191.50	3/4	1,832.03	3/4	1,472.55	3/4	1,115.78	3/4	767.97	3/4	408.51	3/4	50.68	3/4		3/4	
3	2,543.49	3	2,184.01	3	1,824.54	3	1,465.06	3	1,108.59	3	760.48	3	401.02	3	44.36	3		3	
1/4	2,536.00	1/4	2,176.53	1/4	1,817.05	1/4	1,457.57	1/4	1,101.40	1/4	753.00	1/4	393.53	1/4	38.74	1/4		1/4	
1/2	2,528.51	1/2	2,169.04	1/2	1,809.56	1/2	1,450.08	1/2	1,094.20	1/2	745.51	1/2	386.04	1/2	33.13	1/2		1/2	
3/4	2,521.02	3/4	2,161.55	3/4	1,802.07	3/4	1,442.59	3/4	1,087.01	3/4	738.02	3/4	378.55	3/4	27.51	3/4		3/4	
4	2,513.54	4	2,154.06	4	1,794.58	4	1,435.10	4	1,079.82	4	730.53	4	371.06	4	22.83	4		4	
1/4	2,506.05	1/4	2,146.57	1/4	1,787.09	1/4	1,427.62	1/4	1,072.63	1/4	723.04	1/4	363.57	1/4	19.08	1/4		1/4	
1/2	2,498.56	1/2	2,139.08	1/2	1,779.60	1/2	1,420.13	1/2	1,065.44	1/2	715.55	1/2	356.08	1/2	15.34	1/2		1/2	
3/4	2,491.07	3/4	2,131.59	3/4	1,772.11	3/4	1,412.64	3/4	1,058.26	3/4	708.06	3/4	348.60	3/4		3/4		3/4	
5	2,483.58	5	2,124.10	5	1,764.63	5	1,405.15	5	1,051.07	5	700.57	5	341.11	5		5		5	
1/4	2,476.09	1/4	2,116.61	1/4	1,757.14	1/4	1,397.66	1/4	1,043.88	1/4	693.08	1/4	333.62	1/4		1/4		1/4	
1/2	2,468.60	1/2	2,109.12	1/2	1,749.65	1/2	1,390.17	1/2	1,036.70	1/2	685.60	1/2	326.13	1/2		1/2		1/2	
3/4	2,461.11	3/4	2,101.63	3/4	1,742.16	3/4	1,382.68	3/4	1,029.51	3/4	678.11	3/4	318.64	3/4		3/4		3/4	
6	2,453.62	6	2,094.15	6	1,734.67	6	1,375.19	6	1,022.33	6	670.62	6	311.15	6		6		6	
1/4	2,446.13	1/4	2,086.66	1/4	1,727.18	1/4	1,367.70	1/4	1,015.14	1/4	663.13	1/4	303.66	1/4		1/4		1/4	
1/2	2,438.64	1/2	2,079.17	1/2	1,719.69	1/2	1,360.21	1/2	1,007.96	1/2	655.64	1/2	296.17	1/2		1/2		1/2	
3/4	2,431.16	3/4	2,071.68	3/4	1,712.20	3/4	1,352.72	3/4	1,000.77	3/4	648.15	3/4	288.68	3/4		3/4		3/4	
7	2,423.67	7	2,064.19	7	1,704.71	7	1,345.24	7	993.59	7	640.66	7	281.20	7		7		7	
1/4	2,416.18	1/4	2,056.70	1/4	1,697.22	1/4	1,337.75	1/4	986.40	1/4	633.17	1/4	273.71	1/4		1/4		1/4	
1/2	2,408.69	1/2	2,049.21	1/2	1,689.73	1/2	1,330.26	1/2	979.22	1/2	625.68	1/2	266.22	1/2		1/2		1/2	
3/4	2,401.20	3/4	2,041.72	3/4	1,682.25	3/4	1,322.77	3/4	972.03	3/4	618.20	3/4	258.73	3/4		3/4		3/4	
8	2,393.71	8	2,034.23	8	1,674.76	8	1,315.28	8	964.85	8	610.71	8	251.24	8		8		8	
1/4	2,386.22	1/4	2,026.74	1/4	1,667.27	1/4	1,307.79	1/4	957.66	1/4	603.22	1/4	243.75	1/4		1/4		1/4	
1/2	2,378.73	1/2	2,019.25	1/2	1,659.78	1/2	1,300.30	1/2	950.48	1/2	595.73	1/2	236.26	1/2		1/2		1/2	
3/4	2,371.24	3/4	2,011.77	3/4	1,652.29	3/4	1,292.81	3/4	943.29	3/4	588.24	3/4	228.77	3/4		3/4		3/4	
9	2,363.75	9	2,004.28	9	1,644.80	9	1,285.32	9	936.11	9	580.75	9	221.28	9		9		9	
1/4	2,356.26	1/4	1,996.79	1/4	1,637.31	1/4	1,277.83	1/4	928.92	1/4	573.26	1/4	213.79	1/4		1/4		1/4	
1/2	2,348.78	1/2	1,989.30	1/2	1,629.82	1/2	1,270.34	1/2	921.74	1/2	565.77	1/2	206.31	1/2		1/2		1/2	
3/4	2,341.29	3/4	1,981.81	3/4	1,622.33	3/4	1,262.86	3/4	914.55	3/4	558.28	3/4	198.82	3/4		3/4		3/4	
10	2,333.80	10	1,974.32	10	1,614.84	10	1,255.37	10	907.37	10	550.80	10	191.33	10		10		10	
1/4	2,326.31	1/4	1,966.83	1/4	1,607.35	1/4	1,247.88	1/4	900.18	1/4	543.31	1/4	183.84	1/4		1/4		1/4	
1/2	2,318.82	1/2	1,959.34	1/2	1,599.87	1/2	1,240.39	1/2	893.00	1/2	535.82	1/2	176.35	1/2		1/2		1/2	
3/4	2,311.33	3/4	1,951.85	3/4	1,592.38	3/4	1,232.90	3/4	885.81	3/4	528.33	3/4	168.86	3/4		3/4		3/4	
11	2,303.84	11	1,944.36	11	1,584.89	11	1,225.41	11	878.63	11	520.84	11	161.37	11		11		11	
1/4	2,296.35	1/4	1,936.87	1/4	1,577.40	1/4	1,217.92	1/4	871.44	1/4	513.35	1/4	153.88	1/4		1/4		1/4	
1/2	2,288.86	1/2	1,929.39	1/2	1,569.91	1/2	1,210.43	1/2	864.26	1/2	505.86	1/2	146.39	1/2		1/2		1/2	
3/4	2,281.37	3/4	1,921.90	3/4	1,562.42	3/4	1,202.94	3/4	857.07	3/4	498.37	3/4	138.91	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/22/2012 CL - SW
RECALCULATED: 05/19/2018 CL
REPRINTED: 05/21/2018 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2018

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



BARGE "HTCO 3089"

2 STBD

ULLAGE TABLE

HERMETIC

GAUGE HEIGHT 17'-04 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0		0	4,807.27	0	4,449.58	0	4,090.57	0	3,731.42	0	3,372.27	0	3,013.12
1/4		1/4		1/4		1/4		1/4	4,799.85	1/4	4,442.12	1/4	4,083.09	1/4	3,723.94	1/4	3,364.79	1/4	3,005.63
1/2		1/2		1/2		1/2		1/2	4,792.43	1/2	4,434.66	1/2	4,075.60	1/2	3,716.45	1/2	3,357.30	1/2	2,998.15
3/4		3/4		3/4		3/4		3/4	4,785.00	3/4	4,427.20	3/4	4,068.12	3/4	3,708.97	3/4	3,349.82	3/4	2,990.66
1		1		1		1		1	4,777.58	1	4,419.74	1	4,060.64	1	3,701.49	1	3,342.34	1	2,983.18
1/4		1/4		1/4		1/4		1/4	4,770.16	1/4	4,412.27	1/4	4,053.16	1/4	3,694.01	1/4	3,334.86	1/4	2,975.69
1/2		1/2		1/2		1/2		1/2	4,762.74	1/2	4,404.80	1/2	4,045.68	1/2	3,686.52	1/2	3,327.37	1/2	2,968.20
3/4		3/4		3/4		3/4	5,098.53	3/4	4,755.32	3/4	4,397.33	3/4	4,038.19	3/4	3,679.04	3/4	3,319.89	3/4	2,960.72
2		2		2		2	5,093.78	2	4,747.90	2	4,389.86	2	4,030.71	2	3,671.56	2	3,312.41	2	2,953.23
1/4		1/4		1/4		1/4	5,088.49	1/4	4,740.47	1/4	4,382.38	1/4	4,023.23	1/4	3,664.08	1/4	3,304.93	1/4	2,945.74
1/2		1/2		1/2		1/2	5,082.67	1/2	4,733.03	1/2	4,374.90	1/2	4,015.75	1/2	3,656.60	1/2	3,297.45	1/2	2,938.26
3/4		3/4		3/4		3/4	5,076.85	3/4	4,725.59	3/4	4,367.41	3/4	4,008.26	3/4	3,649.11	3/4	3,289.96	3/4	2,930.77
3		3		3		3	5,071.03	3	4,718.15	3	4,359.93	3	4,000.78	3	3,641.63	3	3,282.48	3	2,923.29
1/4		1/4		1/4		1/4	5,064.71	1/4	4,710.70	1/4	4,352.45	1/4	3,993.30	1/4	3,634.15	1/4	3,275.00	1/4	2,915.80
1/2		1/2		1/2		1/2	5,057.89	1/2	4,703.24	1/2	4,344.97	1/2	3,985.82	1/2	3,626.67	1/2	3,267.52	1/2	2,908.31
3/4		3/4		3/4		3/4	5,051.06	3/4	4,695.78	3/4	4,337.48	3/4	3,978.33	3/4	3,619.18	3/4	3,260.03	3/4	2,900.83
4		4		4		4	5,044.24	4	4,688.32	4	4,330.00	4	3,970.85	4	3,611.70	4	3,252.55	4	2,893.34
1/4		1/4		1/4		1/4	5,037.15	1/4	4,680.86	1/4	4,322.52	1/4	3,963.37	1/4	3,604.22	1/4	3,245.07	1/4	2,885.85
1/2		1/2		1/2		1/2	5,029.79	1/2	4,673.40	1/2	4,315.04	1/2	3,955.89	1/2	3,596.74	1/2	3,237.59	1/2	2,878.37
3/4		3/4		3/4		3/4	5,022.43	3/4	4,665.94	3/4	4,307.56	3/4	3,948.41	3/4	3,589.25	3/4	3,230.10	3/4	2,870.88
5		5		5		5	5,015.07	5	4,658.47	5	4,300.07	5	3,940.92	5	3,581.77	5	3,222.62	5	2,863.40
1/4		1/4		1/4		1/4	5,007.68	1/4	4,651.01	1/4	4,292.59	1/4	3,933.44	1/4	3,574.29	1/4	3,215.14	1/4	2,855.91
1/2		1/2		1/2		1/2	5,000.26	1/2	4,643.55	1/2	4,285.11	1/2	3,925.96	1/2	3,566.81	1/2	3,207.66	1/2	2,848.42
3/4		3/4		3/4		3/4	4,992.83	3/4	4,636.09	3/4	4,277.63	3/4	3,918.48	3/4	3,559.33	3/4	3,200.18	3/4	2,840.94
6		6		6		6	4,985.41	6	4,628.63	6	4,270.14	6	3,910.99	6	3,551.84	6	3,192.69	6	2,833.45
1/4		1/4		1/4		1/4	4,977.98	1/4	4,621.17	1/4	4,262.66	1/4	3,903.51	1/4	3,544.36	1/4	3,185.21	1/4	2,825.96
1/2		1/2		1/2		1/2	4,970.56	1/2	4,613.71	1/2	4,255.18	1/2	3,896.03	1/2	3,536.88	1/2	3,177.73	1/2	2,818.48
3/4		3/4		3/4		3/4	4,963.13	3/4	4,606.25	3/4	4,247.70	3/4	3,888.55	3/4	3,529.40	3/4	3,170.25	3/4	2,810.99
7		7		7		7	4,955.71	7	4,598.79	7	4,240.21	7	3,881.06	7	3,521.91	7	3,162.76	7	2,803.51
1/4		1/4		1/4		1/4	4,948.28	1/4	4,591.33	1/4	4,232.73	1/4	3,873.58	1/4	3,514.43	1/4	3,155.28	1/4	2,796.02
1/2		1/2		1/2		1/2	4,940.86	1/2	4,583.87	1/2	4,225.25	1/2	3,866.10	1/2	3,506.95	1/2	3,147.80	1/2	2,788.53
3/4		3/4		3/4		3/4	4,933.43	3/4	4,576.41	3/4	4,217.77	3/4	3,858.62	3/4	3,499.47	3/4	3,140.32	3/4	2,781.05
8		8		8		8	4,926.01	8	4,568.95	8	4,210.29	8	3,851.14	8	3,491.98	8	3,132.83	8	2,773.56
1/4		1/4		1/4		1/4	4,918.59	1/4	4,561.49	1/4	4,202.80	1/4	3,843.65	1/4	3,484.50	1/4	3,125.35	1/4	2,766.07
1/2		1/2		1/2		1/2	4,911.16	1/2	4,554.03	1/2	4,195.32	1/2	3,836.17	1/2	3,477.02	1/2	3,117.87	1/2	2,758.59
3/4		3/4		3/4		3/4	4,903.74	3/4	4,546.57	3/4	4,187.84	3/4	3,828.69	3/4	3,469.54	3/4	3,110.39	3/4	2,751.10
9		9		9		9	4,896.32	9	4,539.10	9	4,180.36	9	3,821.21	9	3,462.06	9	3,102.91	9	2,743.61
1/4		1/4		1/4		1/4	4,888.90	1/4	4,531.64	1/4	4,172.87	1/4	3,813.72	1/4	3,454.57	1/4	3,095.42	1/4	2,736.13
1/2		1/2		1/2		1/2	4,881.48	1/2	4,524.18	1/2	4,165.39	1/2	3,806.24	1/2	3,447.09	1/2	3,087.94	1/2	2,728.64
3/4		3/4		3/4		3/4	4,874.05	3/4	4,516.72	3/4	4,157.91	3/4	3,798.76	3/4	3,439.61	3/4	3,080.46	3/4	2,721.16
10		10		10		10	4,866.63	10	4,509.26	10	4,150.43	10	3,791.28	10	3,432.13	10	3,072.98	10	2,713.67
1/4		1/4		1/4		1/4	4,859.21	1/4	4,501.80	1/4	4,142.95	1/4	3,783.79	1/4	3,424.64	1/4	3,065.49	1/4	2,706.18
1/2		1/2		1/2		1/2	4,851.79	1/2	4,494.34	1/2	4,135.46	1/2	3,776.31	1/2	3,417.16	1/2	3,058.01	1/2	2,698.70
3/4		3/4		3/4		3/4	4,844.37	3/4	4,486.88	3/4	4,127.98	3/4	3,768.83	3/4	3,409.68	3/4	3,050.53	3/4	2,691.21
11		11		11		11	4,836.95	11	4,479.42	11	4,120.50	11	3,761.35	11	3,402.20	11	3,043.05	11	2,683.72
1/4		1/4		1/4		1/4	4,829.53	1/4	4,471.96	1/4	4,113.02	1/4	3,753.87	1/4	3,394.71	1/4	3,035.56	1/4	2,676.24
1/2		1/2		1/2		1/2	4,822.11	1/2	4,464.50	1/2	4,105.53	1/2	3,746.38	1/2	3,387.23	1/2	3,028.08	1/2	2,668.75
3/4		3/4		3/4		3/4	4,814.69	3/4	4,457.04	3/4	4,098.05	3/4	3,738.90	3/4	3,379.75	3/4	3,020.60	3/4	2,661.27

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 11'-00" OFF CENTERLINE AND 45'-03" FORWARD OF AFT BULKHEAD.

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





BARGE "HTCO 3089"

2 STBD
ULLAGE TABLE
HERMETIC
GAUGE HEIGHT 17'-04 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	2,653.78	0	2,294.44	0	1,935.09	0	1,575.75	0	1,216.41	0	857.49	0	498.19	0	138.86	0		0	
1/4	2,646.29	1/4	2,286.95	1/4	1,927.61	1/4	1,568.27	1/4	1,208.92	1/4	850.02	1/4	490.71	1/4	131.37	1/4		1/4	
1/2	2,638.81	1/2	2,279.46	1/2	1,920.12	1/2	1,560.78	1/2	1,201.44	1/2	842.54	1/2	483.22	1/2	123.89	1/2		1/2	
3/4	2,631.32	3/4	2,271.98	3/4	1,912.64	3/4	1,553.29	3/4	1,193.95	3/4	835.06	3/4	475.73	3/4	116.40	3/4		3/4	
1	2,623.83	1	2,264.49	1	1,905.15	1	1,545.81	1	1,186.46	1	827.58	1	468.25	1	108.92	1		1	
1/4	2,616.35	1/4	2,257.01	1/4	1,897.66	1/4	1,538.32	1/4	1,178.98	1/4	820.09	1/4	460.76	1/4	101.43	1/4		1/4	
1/2	2,608.86	1/2	2,249.52	1/2	1,890.18	1/2	1,530.83	1/2	1,171.49	1/2	812.61	1/2	453.28	1/2	93.94	1/2		1/2	
3/4	2,601.38	3/4	2,242.03	3/4	1,882.69	3/4	1,523.35	3/4	1,164.01	3/4	805.12	3/4	445.79	3/4	86.46	3/4		3/4	
2	2,593.89	2	2,234.55	2	1,875.20	2	1,515.86	2	1,156.52	2	797.64	2	438.30	2	78.97	2		2	
1/4	2,586.40	1/4	2,227.06	1/4	1,867.72	1/4	1,508.38	1/4	1,149.03	1/4	790.15	1/4	430.82	1/4	71.72	1/4		1/4	
1/2	2,578.92	1/2	2,219.57	1/2	1,860.23	1/2	1,500.89	1/2	1,141.55	1/2	782.66	1/2	423.33	1/2	64.70	1/2		1/2	
3/4	2,571.43	3/4	2,212.09	3/4	1,852.75	3/4	1,493.40	3/4	1,134.07	3/4	775.18	3/4	415.85	3/4	57.68	3/4		3/4	
3	2,563.94	3	2,204.60	3	1,845.26	3	1,485.92	3	1,126.58	3	767.69	3	408.36	3	50.66	3		3	
1/4	2,556.46	1/4	2,197.11	1/4	1,837.77	1/4	1,478.43	1/4	1,119.10	1/4	760.21	1/4	400.87	1/4	44.35	1/4		1/4	
1/2	2,548.97	1/2	2,189.63	1/2	1,830.29	1/2	1,470.94	1/2	1,111.62	1/2	752.72	1/2	393.39	1/2	38.73	1/2		1/2	
3/4	2,541.48	3/4	2,182.14	3/4	1,822.80	3/4	1,463.46	3/4	1,104.14	3/4	745.23	3/4	385.90	3/4	33.12	3/4		3/4	
4	2,534.00	4	2,174.66	4	1,815.31	4	1,455.97	4	1,096.66	4	737.75	4	378.41	4	27.50	4		4	
1/4	2,526.51	1/4	2,167.17	1/4	1,807.83	1/4	1,448.48	1/4	1,089.18	1/4	730.26	1/4	370.93	1/4	22.83	1/4		1/4	
1/2	2,519.03	1/2	2,159.68	1/2	1,800.34	1/2	1,441.00	1/2	1,081.70	1/2	722.78	1/2	363.44	1/2	19.08	1/2		1/2	
3/4	2,511.54	3/4	2,152.20	3/4	1,792.85	3/4	1,433.51	3/4	1,074.23	3/4	715.29	3/4	355.96	3/4	15.34	3/4		3/4	
5	2,504.05	5	2,144.71	5	1,785.37	5	1,426.03	5	1,066.75	5	707.80	5	348.47	5		5		5	
1/4	2,496.57	1/4	2,137.22	1/4	1,777.88	1/4	1,418.54	1/4	1,059.27	1/4	700.32	1/4	340.98	1/4		1/4		1/4	
1/2	2,489.08	1/2	2,129.74	1/2	1,770.40	1/2	1,411.05	1/2	1,051.80	1/2	692.83	1/2	333.50	1/2		1/2		1/2	
3/4	2,481.59	3/4	2,122.25	3/4	1,762.91	3/4	1,403.57	3/4	1,044.33	3/4	685.34	3/4	326.01	3/4		3/4		3/4	
6	2,474.11	6	2,114.77	6	1,755.42	6	1,396.08	6	1,036.85	6	677.86	6	318.53	6		6		6	
1/4	2,466.62	1/4	2,107.28	1/4	1,747.94	1/4	1,388.59	1/4	1,029.38	1/4	670.37	1/4	311.04	1/4		1/4		1/4	
1/2	2,459.14	1/2	2,099.79	1/2	1,740.45	1/2	1,381.11	1/2	1,021.91	1/2	662.89	1/2	303.55	1/2		1/2		1/2	
3/4	2,451.65	3/4	2,092.31	3/4	1,732.96	3/4	1,373.62	3/4	1,014.43	3/4	655.40	3/4	296.07	3/4		3/4		3/4	
7	2,444.16	7	2,084.82	7	1,725.48	7	1,366.14	7	1,006.96	7	647.91	7	288.58	7		7		7	
1/4	2,436.68	1/4	2,077.33	1/4	1,717.99	1/4	1,358.65	1/4	999.49	1/4	640.43	1/4	281.10	1/4		1/4		1/4	
1/2	2,429.19	1/2	2,069.85	1/2	1,710.51	1/2	1,351.16	1/2	992.01	1/2	632.94	1/2	273.61	1/2		1/2		1/2	
3/4	2,421.70	3/4	2,062.36	3/4	1,703.02	3/4	1,343.68	3/4	984.54	3/4	625.46	3/4	266.12	3/4		3/4		3/4	
8	2,414.22	8	2,054.88	8	1,695.53	8	1,336.19	8	977.07	8	617.97	8	258.64	8		8		8	
1/4	2,406.73	1/4	2,047.39	1/4	1,688.05	1/4	1,328.70	1/4	969.59	1/4	610.48	1/4	251.15	1/4		1/4		1/4	
1/2	2,399.25	1/2	2,039.90	1/2	1,680.56	1/2	1,321.22	1/2	962.12	1/2	603.00	1/2	243.66	1/2		1/2		1/2	
3/4	2,391.76	3/4	2,032.42	3/4	1,673.07	3/4	1,313.73	3/4	954.65	3/4	595.51	3/4	236.18	3/4		3/4		3/4	
9	2,384.27	9	2,024.93	9	1,665.59	9	1,306.25	9	947.17	9	588.03	9	228.69	9		9		9	
1/4	2,376.79	1/4	2,017.44	1/4	1,658.10	1/4	1,298.76	1/4	939.70	1/4	580.54	1/4	221.21	1/4		1/4		1/4	
1/2	2,369.30	1/2	2,009.96	1/2	1,650.62	1/2	1,291.27	1/2	932.23	1/2	573.05	1/2	213.72	1/2		1/2		1/2	
3/4	2,361.81	3/4	2,002.47	3/4	1,643.13	3/4	1,283.79	3/4	924.75	3/4	565.57	3/4	206.23	3/4		3/4		3/4	
10	2,354.33	10	1,994.98	10	1,635.64	10	1,276.30	10	917.28	10	558.08	10	198.75	10		10		10	
1/4	2,346.84	1/4	1,987.50	1/4	1,628.16	1/4	1,268.81	1/4	909.81	1/4	550.60	1/4	191.26	1/4		1/4		1/4	
1/2	2,339.35	1/2	1,980.01	1/2	1,620.67	1/2	1,261.33	1/2	902.33	1/2	543.11	1/2	183.78	1/2		1/2		1/2	
3/4	2,331.87	3/4	1,972.53	3/4	1,613.18	3/4	1,253.84	3/4	894.86	3/4	535.62	3/4	176.29	3/4		3/4		3/4	
11	2,324.38	11	1,965.04	11	1,605.70	11	1,246.35	11	887.39	11	528.14	11	168.80	11		11		11	
1/4	2,316.90	1/4	1,957.55	1/4	1,598.21	1/4	1,238.87	1/4	879.91	1/4	520.65	1/4	161.32	1/4		1/4		1/4	
1/2	2,309.41	1/2	1,950.07	1/2	1,590.72	1/2	1,231.38	1/2	872.44	1/2	513.16	1/2	153.83	1/2		1/2		1/2	
3/4	2,301.92	3/4	1,942.58	3/4	1,583.24	3/4	1,223.90	3/4	864.97	3/4	505.68	3/4	146.35	3/4		3/4		3/4	

STRAPPED: 05/22/2012 CL - SW
 RECALCULATED: 05/19/2018 CL
 REPRINTED: 05/21/2018 SW

CANCELS AND SUPERCEDES
 ALL PRIOR TO 05/2018

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "HTCO 3089"

3 PORT ULLAGE TABLE HERMETIC GAUGE HEIGHT 17'-04 1/2"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0		0	4,390.42	0	4,144.10	0	3,896.90	0	3,649.63	0	3,328.83	0	2,972.42
1/4		1/4		1/4		1/4		1/4	4,385.31	1/4	4,138.96	1/4	3,891.75	1/4	3,644.48	1/4	3,321.42	1/4	2,964.99
1/2		1/2		1/2		1/2		1/2	4,380.20	1/2	4,133.83	1/2	3,886.60	1/2	3,639.33	1/2	3,314.01	1/2	2,957.56
3/4		3/4		3/4		3/4		3/4	4,375.09	3/4	4,128.69	3/4	3,881.45	3/4	3,634.18	3/4	3,306.60	3/4	2,950.13
1		1		1		1		1	4,369.98	1	4,123.55	1	3,876.30	1	3,629.03	1	3,299.20	1	2,942.70
1/4		1/4		1/4		1/4		1/4	4,364.87	1/4	4,118.40	1/4	3,871.15	1/4	3,623.87	1/4	3,291.79	1/4	2,935.26
1/2		1/2		1/2		1/2		1/2	4,592.05	1/2	4,359.76	1/2	4,113.26	1/2	3,865.99	1/2	3,618.72	1/2	3,284.38
3/4		3/4		3/4		3/4		3/4	4,589.60	3/4	4,354.65	3/4	4,108.11	3/4	3,860.84	3/4	3,613.57	3/4	3,276.97
2		2		2		2		2	4,586.62	2	4,349.53	2	4,102.96	2	3,855.69	2	3,608.42	2	3,269.56
1/4		1/4		1/4		1/4		1/4	4,583.10	1/4	4,344.41	1/4	4,097.81	1/4	3,850.54	1/4	3,603.27	1/4	3,262.14
1/2		1/2		1/2		1/2		1/2	4,579.59	1/2	4,339.29	1/2	4,092.66	1/2	3,845.39	1/2	3,598.12	1/2	3,254.72
3/4		3/4		3/4		3/4		3/4	4,576.07	3/4	4,334.16	3/4	4,087.51	3/4	3,840.24	3/4	3,592.97	3/4	3,247.30
3		3		3		3		3	4,572.06	3	4,329.03	3	4,082.36	3	3,835.09	3	3,587.53	3	3,239.87
1/4		1/4		1/4		1/4		1/4	4,567.55	1/4	4,323.89	1/4	4,077.21	1/4	3,829.93	1/4	3,581.80	1/4	3,232.45
1/2		1/2		1/2		1/2		1/2	4,563.03	1/2	4,318.76	1/2	4,072.05	1/2	3,824.78	1/2	3,576.07	1/2	3,225.02
3/4		3/4		3/4		3/4		3/4	4,558.52	3/4	4,313.62	3/4	4,066.90	3/4	3,819.63	3/4	3,570.35	3/4	3,217.59
4		4		4		4		4	4,553.74	4	4,308.48	4	4,061.75	4	3,814.48	4	3,564.05	4	3,210.16
1/4		1/4		1/4		1/4		1/4	4,548.70	1/4	4,303.35	1/4	4,056.60	1/4	3,809.33	1/4	3,557.19	1/4	3,202.73
1/2		1/2		1/2		1/2		1/2	4,543.65	1/2	4,298.21	1/2	4,051.45	1/2	3,804.18	1/2	3,550.33	1/2	3,195.30
3/4		3/4		3/4		3/4		3/4	4,538.60	3/4	4,293.07	3/4	4,046.30	3/4	3,799.03	3/4	3,543.47	3/4	3,187.87
5		5		5		5		5	4,533.52	5	4,287.94	5	4,041.15	5	3,793.87	5	3,536.33	5	3,180.44
1/4		1/4		1/4		1/4		1/4	4,528.41	1/4	4,282.80	1/4	4,035.99	1/4	3,788.72	1/4	3,528.91	1/4	3,173.01
1/2		1/2		1/2		1/2		1/2	4,523.30	1/2	4,277.66	1/2	4,030.84	1/2	3,783.57	1/2	3,521.49	1/2	3,165.58
3/4		3/4		3/4		3/4		3/4	4,518.19	3/4	4,272.52	3/4	4,025.69	3/4	3,778.42	3/4	3,514.07	3/4	3,158.15
6		6		6		6		6	4,513.08	6	4,267.39	6	4,020.54	6	3,773.27	6	3,506.66	6	3,150.72
1/4		1/4		1/4		1/4		1/4	4,507.96	1/4	4,262.25	1/4	4,015.39	1/4	3,768.12	1/4	3,499.24	1/4	3,143.29
1/2		1/2		1/2		1/2		1/2	4,502.85	1/2	4,257.11	1/2	4,010.24	1/2	3,762.96	1/2	3,491.83	1/2	3,135.86
3/4		3/4		3/4		3/4		3/4	4,497.74	3/4	4,251.98	3/4	4,005.09	3/4	3,757.81	3/4	3,484.41	3/4	3,128.44
7		7		7		7		7	4,492.63	7	4,246.84	7	3,999.93	7	3,752.66	7	3,477.00	7	3,121.01
1/4		1/4		1/4		1/4		1/4	4,487.51	1/4	4,241.70	1/4	3,994.78	1/4	3,747.51	1/4	3,469.59	1/4	3,113.58
1/2		1/2		1/2		1/2		1/2	4,482.40	1/2	4,236.57	1/2	3,989.63	1/2	3,742.36	1/2	3,462.18	1/2	3,106.15
3/4		3/4		3/4		3/4		3/4	4,477.29	3/4	4,231.43	3/4	3,984.48	3/4	3,737.21	3/4	3,454.78	3/4	3,098.72
8		8		8		8		8	4,472.18	8	4,226.29	8	3,979.33	8	3,732.06	8	3,447.37	8	3,091.29
1/4		1/4		1/4		1/4		1/4	4,467.07	1/4	4,221.15	1/4	3,974.18	1/4	3,726.90	1/4	3,439.96	1/4	3,083.86
1/2		1/2		1/2		1/2		1/2	4,461.96	1/2	4,216.02	1/2	3,969.02	1/2	3,721.75	1/2	3,432.55	1/2	3,076.43
3/4		3/4		3/4		3/4		3/4	4,456.84	3/4	4,210.88	3/4	3,963.87	3/4	3,716.60	3/4	3,425.14	3/4	3,069.00
9		9		9		9		9	4,451.73	9	4,205.74	9	3,958.72	9	3,711.45	9	3,417.73	9	3,061.57
1/4		1/4		1/4		1/4		1/4	4,446.62	1/4	4,200.61	1/4	3,953.57	1/4	3,706.30	1/4	3,410.32	1/4	3,054.14
1/2		1/2		1/2		1/2		1/2	4,441.51	1/2	4,195.47	1/2	3,948.42	1/2	3,701.15	1/2	3,402.92	1/2	3,046.71
3/4		3/4		3/4		3/4		3/4	4,436.41	3/4	4,190.33	3/4	3,943.27	3/4	3,696.00	3/4	3,395.51	3/4	3,039.28
10		10		10		10		10	4,431.30	10	4,185.20	10	3,938.12	10	3,690.84	10	3,388.10	10	3,031.85
1/4		1/4		1/4		1/4		1/4	4,426.19	1/4	4,180.06	1/4	3,932.96	1/4	3,685.69	1/4	3,380.69	1/4	3,024.42
1/2		1/2		1/2		1/2		1/2	4,421.08	1/2	4,174.92	1/2	3,927.81	1/2	3,680.54	1/2	3,373.28	1/2	3,017.00
3/4		3/4		3/4		3/4		3/4	4,415.97	3/4	4,169.78	3/4	3,922.66	3/4	3,675.39	3/4	3,365.87	3/4	3,009.57
11		11		11		11		11	4,410.86	11	4,164.65	11	3,917.51	11	3,670.24	11	3,358.46	11	3,002.14
1/4		1/4		1/4		1/4		1/4	4,405.75	1/4	4,159.51	1/4	3,912.36	1/4	3,665.09	1/4	3,351.06	1/4	2,994.71
1/2		1/2		1/2		1/2		1/2	4,400.64	1/2	4,154.37	1/2	3,907.21	1/2	3,659.93	1/2	3,343.65	1/2	2,987.28
3/4		3/4		3/4		3/4		3/4	4,395.53	3/4	4,149.24	3/4	3,902.06	3/4	3,654.78	3/4	3,336.24	3/4	2,979.85

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 11'-00" OFF CENTERLINE AND 44'-00" FORWARD OF AFT BULKHEAD.

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





BARGE "HTCO 3089"

3 PORT ULLAGE TABLE HERMETIC GAUGE HEIGHT 17'-04 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	2,615.69	0	2,259.79	0	1,905.67	0	1,548.69	0	1,191.65	0	844.93	0	488.05	0	130.79	0		0	
1/4	2,608.25	1/4	2,252.40	1/4	1,898.26	1/4	1,541.25	1/4	1,184.32	1/4	837.60	1/4	480.61	1/4	123.35	1/4		1/4	
1/2	2,600.82	1/2	2,245.02	1/2	1,890.85	1/2	1,533.81	1/2	1,176.98	1/2	830.28	1/2	473.16	1/2	115.90	1/2		1/2	
3/4	2,593.38	3/4	2,237.63	3/4	1,883.44	3/4	1,526.37	3/4	1,169.65	3/4	822.95	3/4	465.72	3/4	108.45	3/4		3/4	
1	2,585.94	1	2,230.24	1	1,876.02	1	1,518.93	1	1,162.37	1	815.56	1	458.28	1	101.00	1		1	
1/4	2,578.50	1/4	2,222.87	1/4	1,868.58	1/4	1,511.49	1/4	1,155.14	1/4	808.12	1/4	450.84	1/4	93.55	1/4		1/4	
1/2	2,571.06	1/2	2,215.49	1/2	1,861.14	1/2	1,504.05	1/2	1,147.91	1/2	800.68	1/2	443.39	1/2	86.09	1/2		1/2	
3/4	2,563.62	3/4	2,208.12	3/4	1,853.70	3/4	1,496.61	3/4	1,140.68	3/4	793.23	3/4	435.95	3/4	78.64	3/4		3/4	
2	2,556.19	2	2,200.74	2	1,846.26	2	1,489.17	2	1,133.46	2	785.79	2	428.51	2	71.42	2		2	
1/4	2,548.75	1/4	2,193.36	1/4	1,838.82	1/4	1,481.73	1/4	1,126.23	1/4	778.35	1/4	421.07	1/4	64.43	1/4		1/4	
1/2	2,541.31	1/2	2,185.99	1/2	1,831.38	1/2	1,474.29	1/2	1,119.01	1/2	770.90	1/2	413.63	1/2	57.44	1/2		1/2	
3/4	2,533.87	3/4	2,178.61	3/4	1,823.94	3/4	1,466.85	3/4	1,111.79	3/4	763.46	3/4	406.18	3/4	50.45	3/4		3/4	
3	2,526.43	3	2,171.23	3	1,816.50	3	1,459.42	3	1,104.57	3	756.02	3	398.74	3	44.16	3		3	
1/4	2,518.99	1/4	2,163.86	1/4	1,809.06	1/4	1,451.98	1/4	1,097.35	1/4	748.57	1/4	391.30	1/4	38.57	1/4		1/4	
1/2	2,511.55	1/2	2,156.48	1/2	1,801.62	1/2	1,444.54	1/2	1,090.13	1/2	741.13	1/2	383.86	1/2	32.98	1/2		1/2	
3/4	2,504.11	3/4	2,149.10	3/4	1,794.18	3/4	1,437.10	3/4	1,082.92	3/4	733.68	3/4	376.41	3/4	27.39	3/4		3/4	
4	2,496.68	4	2,141.73	4	1,786.74	4	1,429.66	4	1,075.70	4	726.24	4	368.97	4	22.73	4		4	
1/4	2,489.26	1/4	2,134.35	1/4	1,779.31	1/4	1,422.22	1/4	1,068.49	1/4	718.80	1/4	361.53	1/4	19.00	1/4		1/4	
1/2	2,481.84	1/2	2,126.98	1/2	1,771.87	1/2	1,414.78	1/2	1,061.28	1/2	711.35	1/2	354.09	1/2	15.28	1/2		1/2	
3/4	2,474.42	3/4	2,119.60	3/4	1,764.43	3/4	1,407.34	3/4	1,054.06	3/4	703.91	3/4	346.65	3/4		3/4		3/4	
5	2,467.01	5	2,112.22	5	1,756.99	5	1,399.90	5	1,046.85	5	696.47	5	339.20	5		5		5	
1/4	2,459.61	1/4	2,104.85	1/4	1,749.55	1/4	1,392.46	1/4	1,039.64	1/4	689.02	1/4	331.76	1/4		1/4		1/4	
1/2	2,452.21	1/2	2,097.47	1/2	1,742.11	1/2	1,385.02	1/2	1,032.43	1/2	681.58	1/2	324.32	1/2		1/2		1/2	
3/4	2,444.81	3/4	2,090.09	3/4	1,734.67	3/4	1,377.58	3/4	1,025.22	3/4	674.14	3/4	316.88	3/4		3/4		3/4	
6	2,437.41	6	2,082.72	6	1,727.23	6	1,370.14	6	1,018.01	6	666.69	6	309.43	6		6		6	
1/4	2,430.01	1/4	2,075.34	1/4	1,719.79	1/4	1,362.70	1/4	1,010.80	1/4	659.25	1/4	301.99	1/4		1/4		1/4	
1/2	2,422.61	1/2	2,067.96	1/2	1,712.35	1/2	1,355.26	1/2	1,003.59	1/2	651.81	1/2	294.55	1/2		1/2		1/2	
3/4	2,415.20	3/4	2,060.59	3/4	1,704.91	3/4	1,347.83	3/4	996.38	3/4	644.36	3/4	287.11	3/4		3/4		3/4	
7	2,407.80	7	2,053.21	7	1,697.47	7	1,340.39	7	989.18	7	636.92	7	279.67	7		7		7	
1/4	2,400.40	1/4	2,045.83	1/4	1,690.03	1/4	1,332.95	1/4	981.97	1/4	629.48	1/4	272.22	1/4		1/4		1/4	
1/2	2,393.00	1/2	2,038.46	1/2	1,682.59	1/2	1,325.51	1/2	974.76	1/2	622.03	1/2	264.78	1/2		1/2		1/2	
3/4	2,385.60	3/4	2,031.08	3/4	1,675.15	3/4	1,318.07	3/4	967.55	3/4	614.59	3/4	257.34	3/4		3/4		3/4	
8	2,378.20	8	2,023.71	8	1,667.72	8	1,310.63	8	960.34	8	607.15	8	249.90	8		8		8	
1/4	2,370.80	1/4	2,016.33	1/4	1,660.28	1/4	1,303.19	1/4	953.13	1/4	599.70	1/4	242.45	1/4		1/4		1/4	
1/2	2,363.40	1/2	2,008.95	1/2	1,652.84	1/2	1,295.75	1/2	945.92	1/2	592.26	1/2	235.01	1/2		1/2		1/2	
3/4	2,356.00	3/4	2,001.58	3/4	1,645.40	3/4	1,288.31	3/4	938.71	3/4	584.81	3/4	227.57	3/4		3/4		3/4	
9	2,348.60	9	1,994.20	9	1,637.96	9	1,280.87	9	931.50	9	577.37	9	220.13	9		9		9	
1/4	2,341.20	1/4	1,986.82	1/4	1,630.52	1/4	1,273.43	1/4	924.29	1/4	569.93	1/4	212.68	1/4		1/4		1/4	
1/2	2,333.80	1/2	1,979.45	1/2	1,623.08	1/2	1,265.99	1/2	917.08	1/2	562.48	1/2	205.24	1/2		1/2		1/2	
3/4	2,326.39	3/4	1,972.07	3/4	1,615.64	3/4	1,258.55	3/4	909.87	3/4	555.04	3/4	197.79	3/4		3/4		3/4	
10	2,318.99	10	1,964.69	10	1,608.20	10	1,251.11	10	902.66	10	547.60	10	190.35	10		10		10	
1/4	2,311.59	1/4	1,957.32	1/4	1,600.76	1/4	1,243.68	1/4	895.45	1/4	540.15	1/4	182.91	1/4		1/4		1/4	
1/2	2,304.19	1/2	1,949.94	1/2	1,593.32	1/2	1,236.24	1/2	888.24	1/2	532.71	1/2	175.46	1/2		1/2		1/2	
3/4	2,296.79	3/4	1,942.57	3/4	1,585.88	3/4	1,228.80	3/4	881.03	3/4	525.27	3/4	168.02	3/4		3/4		3/4	
11	2,289.39	11	1,935.19	11	1,578.44	11	1,221.36	11	873.82	11	517.82	11	160.57	11		11		11	
1/4	2,281.99	1/4	1,927.81	1/4	1,571.00	1/4	1,213.92	1/4	866.62	1/4	510.38	1/4	153.13	1/4		1/4		1/4	
1/2	2,274.59	1/2	1,920.44	1/2	1,563.57	1/2	1,206.48	1/2	859.41	1/2	502.94	1/2	145.68	1/2		1/2		1/2	
3/4	2,267.19	3/4	1,913.06	3/4	1,556.13	3/4	1,199.04	3/4	852.20	3/4	495.49	3/4	138.24	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/22/2012 CL - SW
RECALCULATED: 05/19/2018 CL
REPRINTED: 05/21/2018 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2018

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
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BARGE "HTCO 3089"

3 STBD

ULLAGE TABLE

HERMETIC

GAUGE HEIGHT 17'-04 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0		0	4,408.18	0	4,161.71	0	3,914.37	0	3,666.97	0	3,343.40	0	2,986.10
1/4		1/4		1/4		1/4		1/4	4,403.07	1/4	4,156.57	1/4	3,909.22	1/4	3,661.82	1/4	3,335.97	1/4	2,978.65
1/2		1/2		1/2		1/2		1/2	4,397.96	1/2	4,151.43	1/2	3,904.06	1/2	3,656.67	1/2	3,328.54	1/2	2,971.20
3/4		3/4		3/4		3/4		3/4	4,392.85	3/4	4,146.29	3/4	3,898.91	3/4	3,651.51	3/4	3,321.12	3/4	2,963.75
1		1		1		1		1	4,387.73	1	4,141.14	1	3,893.75	1	3,646.36	1	3,313.69	1	2,956.30
1/4		1/4		1/4		1/4		1/4	4,615.04	1/4	4,382.62	1/4	4,135.99	1/4	3,888.60	1/4	3,641.20	1/4	3,306.26
1/2		1/2		1/2		1/2		1/2	4,612.59	1/2	4,377.51	1/2	4,130.84	1/2	3,883.45	1/2	3,636.05	1/2	3,298.84
3/4		3/4		3/4		3/4		3/4	4,609.60	3/4	4,372.39	3/4	4,125.69	3/4	3,878.29	3/4	3,630.90	3/4	3,291.41
2		2		2		2		2	4,606.09	2	4,367.26	2	4,120.54	2	3,873.14	2	3,625.74	2	3,283.97
1/4		1/4		1/4		1/4		1/4	4,602.57	1/4	4,362.14	1/4	4,115.38	1/4	3,867.98	1/4	3,620.59	1/4	3,276.53
1/2		1/2		1/2		1/2		1/2	4,599.05	1/2	4,357.01	1/2	4,110.23	1/2	3,862.83	1/2	3,615.43	1/2	3,269.09
3/4		3/4		3/4		3/4		3/4	4,595.04	3/4	4,351.88	3/4	4,105.07	3/4	3,857.68	3/4	3,609.99	3/4	3,261.65
3		3		3		3		3	4,590.52	3	4,346.74	3	4,099.92	3	3,852.52	3	3,604.26	3	3,254.20
1/4		1/4		1/4		1/4		1/4	4,586.00	1/4	4,341.60	1/4	4,094.76	1/4	3,847.37	1/4	3,598.54	1/4	3,246.76
1/2		1/2		1/2		1/2		1/2	4,581.49	1/2	4,336.46	1/2	4,089.61	1/2	3,842.21	1/2	3,592.81	1/2	3,239.31
3/4		3/4		3/4		3/4		3/4	4,576.71	3/4	4,331.32	3/4	4,084.46	3/4	3,837.06	3/4	3,586.51	3/4	3,231.86
4		4		4		4		4	4,571.66	4	4,326.18	4	4,079.30	4	3,831.91	4	3,579.65	4	3,224.42
1/4		1/4		1/4		1/4		1/4	4,566.61	1/4	4,321.04	1/4	4,074.15	1/4	3,826.75	1/4	3,572.78	1/4	3,216.97
1/2		1/2		1/2		1/2		1/2	4,561.56	1/2	4,315.90	1/2	4,068.99	1/2	3,821.60	1/2	3,565.92	1/2	3,209.52
3/4		3/4		3/4		3/4		3/4	4,556.48	3/4	4,310.76	3/4	4,063.84	3/4	3,816.44	3/4	3,558.77	3/4	3,202.07
5		5		5		5		5	4,551.36	5	4,305.62	5	4,058.69	5	3,811.29	5	3,551.34	5	3,194.63
1/4		1/4		1/4		1/4		1/4	4,546.25	1/4	4,300.48	1/4	4,053.53	1/4	3,806.14	1/4	3,543.92	1/4	3,187.18
1/2		1/2		1/2		1/2		1/2	4,541.13	1/2	4,295.34	1/2	4,048.38	1/2	3,800.98	1/2	3,536.49	1/2	3,179.73
3/4		3/4		3/4		3/4		3/4	4,536.02	3/4	4,290.20	3/4	4,043.22	3/4	3,795.83	3/4	3,529.06	3/4	3,172.28
6		6		6		6		6	4,530.90	6	4,285.06	6	4,038.07	6	3,790.67	6	3,521.64	6	3,164.84
1/4		1/4		1/4		1/4		1/4	4,525.79	1/4	4,279.92	1/4	4,032.92	1/4	3,785.52	1/4	3,514.21	1/4	3,157.39
1/2		1/2		1/2		1/2		1/2	4,520.67	1/2	4,274.78	1/2	4,027.76	1/2	3,780.36	1/2	3,506.78	1/2	3,149.94
3/4		3/4		3/4		3/4		3/4	4,515.56	3/4	4,269.64	3/4	4,022.61	3/4	3,775.21	3/4	3,499.36	3/4	3,142.49
7		7		7		7		7	4,510.44	7	4,264.50	7	4,017.45	7	3,770.06	7	3,491.93	7	3,135.05
1/4		1/4		1/4		1/4		1/4	4,505.33	1/4	4,259.37	1/4	4,012.30	1/4	3,764.90	1/4	3,484.50	1/4	3,127.60
1/2		1/2		1/2		1/2		1/2	4,500.21	1/2	4,254.23	1/2	4,007.15	1/2	3,759.75	1/2	3,477.08	1/2	3,120.15
3/4		3/4		3/4		3/4		3/4	4,495.10	3/4	4,249.09	3/4	4,001.99	3/4	3,754.59	3/4	3,469.65	3/4	3,112.70
8		8		8		8		8	4,489.98	8	4,243.95	8	3,996.84	8	3,749.44	8	3,462.22	8	3,105.26
1/4		1/4		1/4		1/4		1/4	4,484.87	1/4	4,238.81	1/4	3,991.68	1/4	3,744.29	1/4	3,454.80	1/4	3,097.81
1/2		1/2		1/2		1/2		1/2	4,479.76	1/2	4,233.67	1/2	3,986.53	1/2	3,739.13	1/2	3,447.37	1/2	3,090.36
3/4		3/4		3/4		3/4		3/4	4,474.64	3/4	4,228.53	3/4	3,981.37	3/4	3,733.98	3/4	3,439.94	3/4	3,082.91
9		9		9		9		9	4,469.53	9	4,223.39	9	3,976.22	9	3,728.82	9	3,432.52	9	3,075.47
1/4		1/4		1/4		1/4		1/4	4,464.42	1/4	4,218.25	1/4	3,971.07	1/4	3,723.67	1/4	3,425.09	1/4	3,068.02
1/2		1/2		1/2		1/2		1/2	4,459.31	1/2	4,213.11	1/2	3,965.91	1/2	3,718.52	1/2	3,417.66	1/2	3,060.57
3/4		3/4		3/4		3/4		3/4	4,454.19	3/4	4,207.97	3/4	3,960.76	3/4	3,713.36	3/4	3,410.24	3/4	3,053.12
10		10		10		10		10	4,449.08	10	4,202.83	10	3,955.60	10	3,708.21	10	3,402.81	10	3,045.68
1/4		1/4		1/4		1/4		1/4	4,443.97	1/4	4,197.69	1/4	3,950.45	1/4	3,703.05	1/4	3,395.38	1/4	3,038.23
1/2		1/2		1/2		1/2		1/2	4,438.86	1/2	4,192.55	1/2	3,945.30	1/2	3,697.90	1/2	3,387.96	1/2	3,030.78
3/4		3/4		3/4		3/4		3/4	4,433.74	3/4	4,187.41	3/4	3,940.14	3/4	3,692.75	3/4	3,380.53	3/4	3,023.34
11		11		11		11		11	4,428.63	11	4,182.27	11	3,934.99	11	3,687.59	11	3,373.10	11	3,015.89
1/4		1/4		1/4		1/4		1/4	4,423.52	1/4	4,177.13	1/4	3,929.83	1/4	3,682.44	1/4	3,365.68	1/4	3,008.44
1/2		1/2		1/2		1/2		1/2	4,418.41	1/2	4,171.99	1/2	3,924.68	1/2	3,677.28	1/2	3,358.25	1/2	3,000.99
3/4		3/4		3/4		3/4		3/4	4,413.30	3/4	4,166.85	3/4	3,919.53	3/4	3,672.13	3/4	3,350.82	3/4	2,993.55

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 11'-00" OFF CENTERLINE AND 45'-06" FORWARD OF AFT BULKHEAD.

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



BARGE "HTCO 3089"

3 STBD

ULLAGE TABLE

HERMETIC

GAUGE HEIGHT 17'-04 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	2,628.49	0	2,270.54	0	1,912.59	0	1,554.64	0	1,196.69	0	839.27	0	481.35	0	123.41	0		0	
1/4	2,621.03	1/4	2,263.09	1/4	1,905.14	1/4	1,547.19	1/4	1,189.24	1/4	831.83	1/4	473.90	1/4	115.96	1/4		1/4	
1/2	2,613.58	1/2	2,255.63	1/2	1,897.68	1/2	1,539.73	1/2	1,181.78	1/2	824.38	1/2	466.44	1/2	108.50	1/2		1/2	
3/4	2,606.12	3/4	2,248.17	3/4	1,890.22	3/4	1,532.27	3/4	1,174.32	3/4	816.92	3/4	458.98	3/4	101.04	3/4		3/4	
1	2,598.67	1	2,240.71	1	1,882.76	1	1,524.81	1	1,166.86	1	809.47	1	451.52	1	93.58	1		1	
1/4	2,591.21	1/4	2,233.26	1/4	1,875.31	1/4	1,517.36	1/4	1,159.41	1/4	802.01	1/4	444.07	1/4	86.13	1/4		1/4	
1/2	2,583.75	1/2	2,225.80	1/2	1,867.85	1/2	1,509.90	1/2	1,151.95	1/2	794.55	1/2	436.61	1/2	78.67	1/2		1/2	
3/4	2,576.29	3/4	2,218.34	3/4	1,860.39	3/4	1,502.44	3/4	1,144.49	3/4	787.09	3/4	429.15	3/4	71.45	3/4		3/4	
2	2,568.84	2	2,210.89	2	1,852.94	2	1,494.98	2	1,137.04	2	779.64	2	421.70	2	64.45	2		2	
1/4	2,561.38	1/4	2,203.43	1/4	1,845.48	1/4	1,487.53	1/4	1,129.59	1/4	772.18	1/4	414.24	1/4	57.46	1/4		1/4	
1/2	2,553.92	1/2	2,195.97	1/2	1,838.02	1/2	1,480.07	1/2	1,122.13	1/2	764.72	1/2	406.78	1/2	50.47	1/2		1/2	
3/4	2,546.46	3/4	2,188.51	3/4	1,830.56	3/4	1,472.61	3/4	1,114.68	3/4	757.27	3/4	399.33	3/4	44.18	3/4		3/4	
3	2,539.01	3	2,181.06	3	1,823.11	3	1,465.16	3	1,107.23	3	749.81	3	391.87	3	38.59	3		3	
1/4	2,531.55	1/4	2,173.60	1/4	1,815.65	1/4	1,457.70	1/4	1,099.78	1/4	742.35	1/4	384.41	1/4	33.00	1/4		1/4	
1/2	2,524.09	1/2	2,166.14	1/2	1,808.19	1/2	1,450.24	1/2	1,092.33	1/2	734.89	1/2	376.95	1/2	27.40	1/2		1/2	
3/4	2,516.64	3/4	2,158.68	3/4	1,800.73	3/4	1,442.78	3/4	1,084.89	3/4	727.44	3/4	369.50	3/4	22.74	3/4		3/4	
4	2,509.18	4	2,151.23	4	1,793.28	4	1,435.33	4	1,077.44	4	719.98	4	362.04	4	19.01	4		4	
1/4	2,501.72	1/4	2,143.77	1/4	1,785.82	1/4	1,427.87	1/4	1,070.00	1/4	712.52	1/4	354.58	1/4	15.28	1/4		1/4	
1/2	2,494.26	1/2	2,136.31	1/2	1,778.36	1/2	1,420.41	1/2	1,062.55	1/2	705.07	1/2	347.13	1/2		1/2		1/2	
3/4	2,486.81	3/4	2,128.86	3/4	1,770.91	3/4	1,412.95	3/4	1,055.11	3/4	697.61	3/4	339.67	3/4		3/4		3/4	
5	2,479.35	5	2,121.40	5	1,763.45	5	1,405.50	5	1,047.66	5	690.15	5	332.21	5		5		5	
1/4	2,471.89	1/4	2,113.94	1/4	1,755.99	1/4	1,398.04	1/4	1,040.22	1/4	682.69	1/4	324.75	1/4		1/4		1/4	
1/2	2,464.43	1/2	2,106.48	1/2	1,748.53	1/2	1,390.58	1/2	1,032.78	1/2	675.24	1/2	317.30	1/2		1/2		1/2	
3/4	2,456.98	3/4	2,099.03	3/4	1,741.08	3/4	1,383.13	3/4	1,025.34	3/4	667.78	3/4	309.84	3/4		3/4		3/4	
6	2,449.52	6	2,091.57	6	1,733.62	6	1,375.67	6	1,017.90	6	660.32	6	302.38	6		6		6	
1/4	2,442.06	1/4	2,084.11	1/4	1,726.16	1/4	1,368.21	1/4	1,010.45	1/4	652.87	1/4	294.93	1/4		1/4		1/4	
1/2	2,434.60	1/2	2,076.65	1/2	1,718.70	1/2	1,360.75	1/2	1,003.01	1/2	645.41	1/2	287.47	1/2		1/2		1/2	
3/4	2,427.15	3/4	2,069.20	3/4	1,711.25	3/4	1,353.30	3/4	995.57	3/4	637.95	3/4	280.01	3/4		3/4		3/4	
7	2,419.69	7	2,061.74	7	1,703.79	7	1,345.84	7	988.13	7	630.50	7	272.55	7		7		7	
1/4	2,412.23	1/4	2,054.28	1/4	1,696.33	1/4	1,338.38	1/4	980.69	1/4	623.04	1/4	265.10	1/4		1/4		1/4	
1/2	2,404.78	1/2	2,046.83	1/2	1,688.87	1/2	1,330.92	1/2	973.24	1/2	615.58	1/2	257.64	1/2		1/2		1/2	
3/4	2,397.32	3/4	2,039.37	3/4	1,681.42	3/4	1,323.47	3/4	965.80	3/4	608.12	3/4	250.18	3/4		3/4		3/4	
8	2,389.86	8	2,031.91	8	1,673.96	8	1,316.01	8	958.36	8	600.67	8	242.73	8		8		8	
1/4	2,382.40	1/4	2,024.45	1/4	1,666.50	1/4	1,308.55	1/4	950.92	1/4	593.21	1/4	235.27	1/4		1/4		1/4	
1/2	2,374.95	1/2	2,017.00	1/2	1,659.05	1/2	1,301.10	1/2	943.48	1/2	585.75	1/2	227.81	1/2		1/2		1/2	
3/4	2,367.49	3/4	2,009.54	3/4	1,651.59	3/4	1,293.64	3/4	936.03	3/4	578.30	3/4	220.35	3/4		3/4		3/4	
9	2,360.03	9	2,002.08	9	1,644.13	9	1,286.18	9	928.59	9	570.84	9	212.90	9		9		9	
1/4	2,352.57	1/4	1,994.62	1/4	1,636.67	1/4	1,278.72	1/4	921.15	1/4	563.38	1/4	205.44	1/4		1/4		1/4	
1/2	2,345.12	1/2	1,987.17	1/2	1,629.22	1/2	1,271.27	1/2	913.71	1/2	555.92	1/2	197.98	1/2		1/2		1/2	
3/4	2,337.66	3/4	1,979.71	3/4	1,621.76	3/4	1,263.81	3/4	906.26	3/4	548.47	3/4	190.53	3/4		3/4		3/4	
10	2,330.20	10	1,972.25	10	1,614.30	10	1,256.35	10	898.82	10	541.01	10	183.07	10		10		10	
1/4	2,322.75	1/4	1,964.79	1/4	1,606.84	1/4	1,248.89	1/4	891.38	1/4	533.55	1/4	175.61	1/4		1/4		1/4	
1/2	2,315.29	1/2	1,957.34	1/2	1,599.39	1/2	1,241.44	1/2	883.94	1/2	526.10	1/2	168.15	1/2		1/2		1/2	
3/4	2,307.83	3/4	1,949.88	3/4	1,591.93	3/4	1,233.98	3/4	876.50	3/4	518.64	3/4	160.70	3/4		3/4		3/4	
11	2,300.37	11	1,942.42	11	1,584.47	11	1,226.52	11	869.05	11	511.18	11	153.24	11		11		11	
1/4	2,292.92	1/4	1,934.97	1/4	1,577.02	1/4	1,219.06	1/4	861.61	1/4	503.72	1/4	145.78	1/4		1/4		1/4	
1/2	2,285.46	1/2	1,927.51	1/2	1,569.56	1/2	1,211.61	1/2	854.17	1/2	496.27	1/2	138.33	1/2		1/2		1/2	
3/4	2,278.00	3/4	1,920.05	3/4	1,562.10	3/4	1,204.15	3/4	846.72	3/4	488.81	3/4	130.87	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/22/2012 CL - SW
 RECALCULATED: 05/19/2018 CL
 REPRINTED: 05/21/2018 SW

CANCELS AND SUPERCEDES
 ALL PRIOR TO 05/2018

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