



BARGE "HFL 408"

ULLAGE TRIM TABLE

	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	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8
1 STBD	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8
2 PORT	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8
2 STBD	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8
3 PORT	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8
3 STBD	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 2'-00"
 AFT DRAFT = 4'-00"
 DIFF. = 2'-00" (DOWN BY STERN)

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 1 PORT IS - 00-0/8"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 4'-00"

LENGTH BETWEEN DRAFT MARKS: 234'-00"

December 1, 2023

PRECISION MEASUREMENT
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 P.O. Box 2092
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<http://www.pmacorp.net>



BARGE "HFL 408"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-11"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	4,535.73	0	4,279.04	0	3,968.42	0	3,657.78	0	3,347.16	0	3,036.52	0	2,725.90	0	2,415.28
1/4		1/4		1/4	4,534.12	1/4	4,272.57	1/4	3,961.95	1/4	3,651.31	1/4	3,340.69	1/4	3,030.05	1/4	2,719.43	1/4	2,408.80
1/2		1/2		1/2	4,532.51	1/2	4,266.10	1/2	3,955.47	1/2	3,644.84	1/2	3,334.22	1/2	3,023.58	1/2	2,712.96	1/2	2,402.33
3/4		3/4		3/4	4,530.89	3/4	4,259.63	3/4	3,949.00	3/4	3,638.37	3/4	3,327.75	3/4	3,017.11	3/4	2,706.49	3/4	2,395.85
1		1		1	4,529.28	1	4,253.16	1	3,942.52	1	3,631.90	1	3,321.28	1	3,010.64	1	2,700.02	1	2,389.38
1/4		1/4		1/4	4,526.58	1/4	4,246.69	1/4	3,936.05	1/4	3,625.43	1/4	3,314.80	1/4	3,004.17	1/4	2,693.55	1/4	2,382.91
1/2		1/2		1/2	4,523.89	1/2	4,240.22	1/2	3,929.58	1/2	3,618.96	1/2	3,308.33	1/2	2,997.70	1/2	2,687.08	1/2	2,376.44
3/4		3/4		3/4	4,521.19	3/4	4,233.75	3/4	3,923.11	3/4	3,612.49	3/4	3,301.85	3/4	2,991.23	3/4	2,680.61	3/4	2,369.96
2		2		2	4,518.50	2	4,227.28	2	3,916.64	2	3,606.02	2	3,295.38	2	2,984.76	2	2,674.14	2	2,363.49
1/4		1/4		1/4	4,514.72	1/4	4,220.80	1/4	3,910.17	1/4	3,599.55	1/4	3,288.91	1/4	2,978.29	1/4	2,667.66	1/4	2,357.02
1/2		1/2		1/2	4,510.94	1/2	4,214.33	1/2	3,903.70	1/2	3,593.08	1/2	3,282.44	1/2	2,971.82	1/2	2,661.19	1/2	2,350.55
3/4		3/4		3/4	4,507.16	3/4	4,207.85	3/4	3,897.23	3/4	3,586.61	3/4	3,275.97	3/4	2,965.35	3/4	2,654.71	3/4	2,344.08
3		3		3	4,503.38	3	4,201.38	3	3,890.76	3	3,580.14	3	3,269.49	3	2,958.88	3	2,648.23	3	2,337.61
1/4		1/4		1/4	4,498.53	1/4	4,194.91	1/4	3,884.29	1/4	3,573.66	1/4	3,263.02	1/4	2,952.41	1/4	2,641.76	1/4	2,331.14
1/2		1/2		1/2	4,493.67	1/2	4,188.44	1/2	3,877.82	1/2	3,567.19	1/2	3,256.55	1/2	2,945.94	1/2	2,635.29	1/2	2,324.67
3/4		3/4		3/4	4,488.82	3/4	4,181.97	3/4	3,871.35	3/4	3,560.71	3/4	3,250.08	3/4	2,939.47	3/4	2,628.82	3/4	2,318.20
4		4		4	4,483.97	4	4,175.49	4	3,864.88	4	3,554.23	4	3,243.61	4	2,933.00	4	2,622.35	4	2,311.73
1/4		1/4		1/4	4,478.04	1/4	4,169.02	1/4	3,858.41	1/4	3,547.76	1/4	3,237.14	1/4	2,926.52	1/4	2,615.88	1/4	2,305.26
1/2		1/2		1/2	4,472.10	1/2	4,162.55	1/2	3,851.94	1/2	3,541.29	1/2	3,230.67	1/2	2,920.04	1/2	2,609.41	1/2	2,298.79
3/4		3/4		3/4	4,466.17	3/4	4,156.08	3/4	3,845.47	3/4	3,534.82	3/4	3,224.20	3/4	2,913.57	3/4	2,602.94	3/4	2,292.32
5		5		5	4,460.23	5	4,149.61	5	3,839.00	5	3,528.35	5	3,217.73	5	2,907.09	5	2,596.47	5	2,285.85
1/4		1/4		1/4	4,453.76	1/4	4,143.14	1/4	3,832.52	1/4	3,521.88	1/4	3,211.26	1/4	2,900.62	1/4	2,590.00	1/4	2,279.38
1/2		1/2		1/2	4,447.29	1/2	4,136.67	1/2	3,826.04	1/2	3,515.41	1/2	3,204.79	1/2	2,894.15	1/2	2,583.53	1/2	2,272.91
3/4		3/4		3/4	4,440.82	3/4	4,130.20	3/4	3,819.57	3/4	3,508.94	3/4	3,198.32	3/4	2,887.68	3/4	2,577.06	3/4	2,266.44
6		6		6	4,434.35	6	4,123.73	6	3,813.09	6	3,502.47	6	3,191.85	6	2,881.21	6	2,570.59	6	2,259.97
1/4		1/4		1/4	4,427.88	1/4	4,117.26	1/4	3,806.62	1/4	3,496.00	1/4	3,185.38	1/4	2,874.74	1/4	2,564.12	1/4	2,253.50
1/2		1/2		1/2	4,421.41	1/2	4,110.79	1/2	3,800.15	1/2	3,489.53	1/2	3,178.90	1/2	2,868.27	1/2	2,557.65	1/2	2,247.02
3/4		3/4		3/4	4,414.94	3/4	4,104.32	3/4	3,793.68	3/4	3,483.06	3/4	3,172.42	3/4	2,861.80	3/4	2,551.18	3/4	2,240.54
7		7		7	4,408.47	7	4,097.85	7	3,787.21	7	3,476.59	7	3,165.95	7	2,855.33	7	2,544.71	7	2,234.07
1/4		1/4		1/4	4,402.00	1/4	4,091.38	1/4	3,780.74	1/4	3,470.12	1/4	3,159.48	1/4	2,848.86	1/4	2,538.23	1/4	2,227.60
1/2		1/2		1/2	4,395.53	1/2	4,084.90	1/2	3,774.27	1/2	3,463.65	1/2	3,153.01	1/2	2,842.39	1/2	2,531.76	1/2	2,221.13
3/4		3/4		3/4	4,389.06	3/4	4,078.42	3/4	3,767.80	3/4	3,457.18	3/4	3,146.54	3/4	2,835.92	3/4	2,525.28	3/4	2,214.66
8		8		8	4,382.59	8	4,071.95	8	3,761.33	8	3,450.71	8	3,140.07	8	2,829.45	8	2,518.80	8	2,208.19
1/4		1/4		1/4	4,376.12	1/4	4,065.48	1/4	3,754.86	1/4	3,444.23	1/4	3,133.60	1/4	2,822.98	1/4	2,512.33	1/4	2,201.72
1/2		1/2		1/2	4,369.65	1/2	4,059.01	1/2	3,748.39	1/2	3,437.76	1/2	3,127.13	1/2	2,816.51	1/2	2,505.86	1/2	2,195.25
3/4		3/4		3/4	4,363.18	3/4	4,052.54	3/4	3,741.92	3/4	3,431.28	3/4	3,120.66	3/4	2,810.04	3/4	2,499.39	3/4	2,188.77
9		9		9	4,356.71	9	4,046.07	9	3,735.45	9	3,424.80	9	3,114.19	9	2,803.57	9	2,492.92	9	2,182.30
1/4		1/4		1/4	4,350.23	1/4	4,039.60	1/4	3,728.98	1/4	3,418.33	1/4	3,107.72	1/4	2,797.09	1/4	2,486.45	1/4	2,175.83
1/2		1/2		1/2	4,343.76	1/2	4,033.13	1/2	3,722.51	1/2	3,411.86	1/2	3,101.25	1/2	2,790.61	1/2	2,479.98	1/2	2,169.36
3/4		3/4		3/4	4,337.28	3/4	4,026.66	3/4	3,716.04	3/4	3,405.39	3/4	3,094.77	3/4	2,784.14	3/4	2,473.51	3/4	2,162.89
10		10		10	4,330.80	10	4,020.19	10	3,709.57	10	3,398.92	10	3,088.30	10	2,777.66	10	2,467.04	10	2,156.42
1/4		1/4		1/4	4,324.33	1/4	4,013.72	1/4	3,703.09	1/4	3,392.45	1/4	3,081.83	1/4	2,771.19	1/4	2,460.57	1/4	2,149.95
1/2		1/2		1/2	4,317.86	1/2	4,007.25	1/2	3,696.61	1/2	3,385.98	1/2	3,075.36	1/2	2,764.72	1/2	2,454.10	1/2	2,143.48
3/4		3/4		3/4	4,311.39	3/4	4,000.78	3/4	3,690.14	3/4	3,379.51	3/4	3,068.89	3/4	2,758.25	3/4	2,447.63	3/4	2,137.01
11		11	4,537.90	11	4,304.92	11	3,994.30	11	3,683.66	11	3,373.04	11	3,062.42	11	2,751.78	11	2,441.16	11	2,130.54
1/4		1/4	4,537.36	1/4	4,298.45	1/4	3,987.83	1/4	3,677.19	1/4	3,366.57	1/4	3,055.95	1/4	2,745.31	1/4	2,434.69	1/4	2,124.07
1/2		1/2	4,536.82	1/2	4,291.98	1/2	3,981.36	1/2	3,670.72	1/2	3,360.10	1/2	3,049.47	1/2	2,738.84	1/2	2,428.22	1/2	2,117.59
3/4		3/4	4,536.28	3/4	4,285.51	3/4	3,974.89	3/4	3,664.25	3/4	3,353.63	3/4	3,043.00	3/4	2,732.37	3/4	2,421.75	3/4	2,111.11

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 AT GAUGE POINT.
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF THREADS ON MMC VALVE.
GAUGE POINT: (MMC) LOCATED 11'-06" OFF CENTERLINE AND 39'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "HFL 408"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-11"

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	2,104.64	0	1,794.02	0	1,483.40	0	1,172.76	0	862.30	0	551.73	0	247.76	0		0		0	
1/4	2,098.17	1/4	1,787.55	1/4	1,476.92	1/4	1,166.29	1/4	855.84	1/4	545.26	1/4	241.83	1/4		1/4		1/4	
1/2	2,091.70	1/2	1,781.08	1/2	1,470.45	1/2	1,159.82	1/2	849.38	1/2	538.79	1/2	235.91	1/2		1/2		1/2	
3/4	2,085.23	3/4	1,774.61	3/4	1,463.97	3/4	1,153.35	3/4	842.91	3/4	532.32	3/4	229.99	3/4		3/4		3/4	
1	2,078.76	1	1,768.14	1	1,457.49	1	1,146.88	1	836.45	1	525.85	1	224.07	1		1		1	
1/4	2,072.29	1/4	1,761.67	1/4	1,451.02	1/4	1,140.41	1/4	829.98	1/4	519.38	1/4	218.23	1/4		1/4		1/4	
1/2	2,065.82	1/2	1,755.20	1/2	1,444.55	1/2	1,133.94	1/2	823.51	1/2	512.91	1/2	212.39	1/2		1/2		1/2	
3/4	2,059.35	3/4	1,748.73	3/4	1,438.08	3/4	1,127.46	3/4	817.04	3/4	506.44	3/4	206.55	3/4		3/4		3/4	
2	2,052.88	2	1,742.26	2	1,431.61	2	1,120.99	2	810.57	2	499.97	2	200.71	2		2		2	
1/4	2,046.41	1/4	1,735.78	1/4	1,425.14	1/4	1,114.52	1/4	804.10	1/4	493.50	1/4	194.95	1/4		1/4		1/4	
1/2	2,039.94	1/2	1,729.30	1/2	1,418.67	1/2	1,108.05	1/2	797.63	1/2	487.03	1/2	189.19	1/2		1/2		1/2	
3/4	2,033.47	3/4	1,722.83	3/4	1,412.20	3/4	1,101.58	3/4	791.15	3/4	480.56	3/4	183.42	3/4		3/4		3/4	
3	2,027.00	3	1,716.35	3	1,405.73	3	1,095.11	3	784.68	3	474.09	3	177.66	3		3		3	
1/4	2,020.52	1/4	1,709.88	1/4	1,399.26	1/4	1,088.64	1/4	778.21	1/4	467.62	1/4	171.98	1/4		1/4		1/4	
1/2	2,014.05	1/2	1,703.41	1/2	1,392.79	1/2	1,082.17	1/2	771.74	1/2	461.15	1/2	166.29	1/2		1/2		1/2	
3/4	2,007.58	3/4	1,696.94	3/4	1,386.32	3/4	1,075.70	3/4	765.27	3/4	454.68	3/4	160.61	3/4		3/4		3/4	
4	2,001.11	4	1,690.47	4	1,379.85	4	1,069.23	4	758.80	4	448.21	4	154.92	4		4		4	
1/4	1,994.64	1/4	1,684.00	1/4	1,373.38	1/4	1,062.76	1/4	752.33	1/4	441.74	1/4	149.32	1/4		1/4		1/4	
1/2	1,988.16	1/2	1,677.53	1/2	1,366.91	1/2	1,056.29	1/2	745.86	1/2	435.27	1/2	143.72	1/2		1/2		1/2	
3/4	1,981.69	3/4	1,671.06	3/4	1,360.44	3/4	1,049.82	3/4	739.39	3/4	428.80	3/4	138.12	3/4		3/4		3/4	
5	1,975.21	5	1,664.59	5	1,353.97	5	1,043.35	5	732.92	5	422.33	5	132.52	5		5		5	
1/4	1,968.74	1/4	1,658.12	1/4	1,347.50	1/4	1,036.89	1/4	726.45	1/4	415.85	1/4	127.00	1/4		1/4		1/4	
1/2	1,962.27	1/2	1,651.65	1/2	1,341.02	1/2	1,030.42	1/2	719.98	1/2	409.38	1/2	121.47	1/2		1/2		1/2	
3/4	1,955.80	3/4	1,645.18	3/4	1,334.54	3/4	1,023.96	3/4	713.51	3/4	402.90	3/4	115.95	3/4		3/4		3/4	
6	1,949.33	6	1,638.71	6	1,328.07	6	1,017.50	6	707.04	6	396.42	6	110.42	6		6		6	
1/4	1,942.86	1/4	1,632.24	1/4	1,321.60	1/4	1,011.03	1/4	700.57	1/4	390.04	1/4	104.98	1/4		1/4		1/4	
1/2	1,936.39	1/2	1,625.77	1/2	1,315.13	1/2	1,004.55	1/2	694.10	1/2	383.65	1/2	99.53	1/2		1/2		1/2	
3/4	1,929.92	3/4	1,619.30	3/4	1,308.66	3/4	998.08	3/4	687.63	3/4	377.26	3/4	94.08	3/4		3/4		3/4	
7	1,923.45	7	1,612.83	7	1,302.19	7	991.61	7	681.16	7	370.88	7	88.64	7		7		7	
1/4	1,916.98	1/4	1,606.35	1/4	1,295.72	1/4	985.15	1/4	674.69	1/4	364.56	1/4	83.27	1/4		1/4		1/4	
1/2	1,910.51	1/2	1,599.88	1/2	1,289.25	1/2	978.69	1/2	668.22	1/2	358.25	1/2	77.90	1/2		1/2		1/2	
3/4	1,904.04	3/4	1,593.40	3/4	1,282.77	3/4	972.22	3/4	661.75	3/4	351.93	3/4	72.53	3/4		3/4		3/4	
8	1,897.57	8	1,586.92	8	1,276.30	8	965.76	8	655.28	8	345.61	8	67.16	8		8		8	
1/4	1,891.10	1/4	1,580.45	1/4	1,269.83	1/4	959.29	1/4	648.81	1/4	339.38	1/4	61.88	1/4		1/4		1/4	
1/2	1,884.63	1/2	1,573.98	1/2	1,263.36	1/2	952.83	1/2	642.34	1/2	333.15	1/2	56.59	1/2		1/2		1/2	
3/4	1,878.16	3/4	1,567.51	3/4	1,256.89	3/4	946.36	3/4	635.87	3/4	326.92	3/4	51.30	3/4		3/4		3/4	
9	1,871.69	9	1,561.04	9	1,250.42	9	939.90	9	629.40	9	320.69	9	46.02	9		9		9	
1/4	1,865.21	1/4	1,554.57	1/4	1,243.95	1/4	933.43	1/4	622.93	1/4	314.53	1/4	41.42	1/4		1/4		1/4	
1/2	1,858.73	1/2	1,548.10	1/2	1,237.48	1/2	926.96	1/2	616.46	1/2	308.36	1/2	36.83	1/2		1/2		1/2	
3/4	1,852.26	3/4	1,541.63	3/4	1,231.01	3/4	920.49	3/4	609.99	3/4	302.20	3/4	32.23	3/4		3/4		3/4	
10	1,845.78	10	1,535.16	10	1,224.54	10	914.02	10	603.52	10	296.04	10	27.64	10		10		10	
1/4	1,839.31	1/4	1,528.69	1/4	1,218.07	1/4	907.55	1/4	597.05	1/4	289.97	1/4	24.36	1/4		1/4		1/4	
1/2	1,832.84	1/2	1,522.22	1/2	1,211.59	1/2	901.09	1/2	590.58	1/2	283.89	1/2	21.08	1/2		1/2		1/2	
3/4	1,826.37	3/4	1,515.75	3/4	1,205.11	3/4	894.63	3/4	584.11	3/4	277.81	3/4	17.80	3/4		3/4		3/4	
11	1,819.90	11	1,509.28	11	1,198.64	11	888.16	11	577.64	11	271.73	11	14.52	11		11		11	
1/4	1,813.43	1/4	1,502.81	1/4	1,192.17	1/4	881.70	1/4	571.16	1/4	265.74	1/4		1/4		1/4		1/4	
1/2	1,806.96	1/2	1,496.34	1/2	1,185.70	1/2	875.23	1/2	564.69	1/2	259.75	1/2		1/2		1/2		1/2	
3/4	1,800.49	3/4	1,489.87	3/4	1,179.23	3/4	868.77	3/4	558.21	3/4	253.75	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/28/2008 CB
RECALCULATED: 12/01/2023 PMA
VERIFIED: 12/01/2023 PMA

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2023

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



BARGE "HFL 408"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-10 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	4,535.86	0	4,269.26	0	3,958.40	0	3,647.54	0	3,336.69	0	3,025.82	0	2,714.97	0	2,404.11
1/4		1/4		1/4	4,534.25	1/4	4,267.79	1/4	3,951.92	1/4	3,641.06	1/4	3,330.22	1/4	3,019.34	1/4	2,708.50	1/4	2,397.63
1/2		1/2		1/2	4,532.63	1/2	4,256.31	1/2	3,945.44	1/2	3,634.59	1/2	3,323.74	1/2	3,012.87	1/2	2,702.02	1/2	2,391.15
3/4		3/4		3/4	4,529.94	3/4	4,249.84	3/4	3,938.96	3/4	3,628.11	3/4	3,317.26	3/4	3,006.39	3/4	2,695.55	3/4	2,384.67
1		1		1	4,527.24	1	4,243.36	1	3,932.49	1	3,621.64	1	3,310.78	1	2,999.92	1	2,689.07	1	2,378.20
1/4		1/4		1/4	4,524.54	1/4	4,236.89	1/4	3,926.01	1/4	3,615.16	1/4	3,304.30	1/4	2,993.44	1/4	2,682.60	1/4	2,371.72
1/2		1/2		1/2	4,521.84	1/2	4,230.41	1/2	3,919.54	1/2	3,608.69	1/2	3,297.82	1/2	2,986.97	1/2	2,676.12	1/2	2,365.25
3/4		3/4		3/4	4,518.06	3/4	4,223.93	3/4	3,913.06	3/4	3,602.21	3/4	3,291.34	3/4	2,980.49	3/4	2,669.64	3/4	2,358.77
2		2		2	4,514.28	2	4,217.45	2	3,906.59	2	3,595.74	2	3,284.87	2	2,974.02	2	2,663.16	2	2,352.30
1/4		1/4		1/4	4,510.49	1/4	4,210.97	1/4	3,900.11	1/4	3,589.26	1/4	3,278.39	1/4	2,967.54	1/4	2,656.68	1/4	2,345.82
1/2		1/2		1/2	4,506.71	1/2	4,204.49	1/2	3,893.64	1/2	3,582.79	1/2	3,271.92	1/2	2,961.07	1/2	2,650.20	1/2	2,339.35
3/4		3/4		3/4	4,501.86	3/4	4,198.01	3/4	3,887.16	3/4	3,576.31	3/4	3,265.44	3/4	2,954.59	3/4	2,643.72	3/4	2,332.87
3		3		3	4,497.00	3	4,191.54	3	3,880.69	3	3,569.83	3	3,258.97	3	2,948.12	3	2,637.25	3	2,326.40
1/4		1/4		1/4	4,492.15	1/4	4,185.06	1/4	3,874.21	1/4	3,563.35	1/4	3,252.49	1/4	2,941.64	1/4	2,630.77	1/4	2,319.92
1/2		1/2		1/2	4,487.29	1/2	4,178.59	1/2	3,867.74	1/2	3,556.87	1/2	3,246.02	1/2	2,935.17	1/2	2,624.30	1/2	2,313.45
3/4		3/4		3/4	4,481.35	3/4	4,172.11	3/4	3,861.26	3/4	3,550.39	3/4	3,239.54	3/4	2,928.69	3/4	2,617.82	3/4	2,306.97
4		4		4	4,475.41	4	4,165.64	4	3,854.79	4	3,543.92	4	3,233.07	4	2,922.21	4	2,611.35	4	2,300.50
1/4		1/4		1/4	4,469.47	1/4	4,159.16	1/4	3,848.31	1/4	3,537.44	1/4	3,226.59	1/4	2,915.73	1/4	2,604.87	1/4	2,294.02
1/2		1/2		1/2	4,463.54	1/2	4,152.69	1/2	3,841.84	1/2	3,530.97	1/2	3,220.12	1/2	2,909.24	1/2	2,598.40	1/2	2,287.55
3/4		3/4		3/4	4,457.06	3/4	4,146.21	3/4	3,835.36	3/4	3,524.49	3/4	3,213.64	3/4	2,902.77	3/4	2,591.92	3/4	2,281.07
5		5		5	4,450.59	5	4,139.74	5	3,828.88	5	3,518.02	5	3,207.17	5	2,896.29	5	2,585.45	5	2,274.60
1/4		1/4		1/4	4,444.11	1/4	4,133.26	1/4	3,822.40	1/4	3,511.54	1/4	3,200.69	1/4	2,889.82	1/4	2,578.97	1/4	2,268.12
1/2		1/2		1/2	4,437.64	1/2	4,126.79	1/2	3,815.91	1/2	3,505.07	1/2	3,194.22	1/2	2,883.34	1/2	2,572.50	1/2	2,261.65
3/4		3/4		3/4	4,431.16	3/4	4,120.31	3/4	3,809.44	3/4	3,498.59	3/4	3,187.74	3/4	2,876.87	3/4	2,566.02	3/4	2,255.17
6		6		6	4,424.69	6	4,113.84	6	3,802.96	6	3,492.12	6	3,181.25	6	2,870.39	6	2,559.55	6	2,248.69
1/4		1/4		1/4	4,418.21	1/4	4,107.36	1/4	3,796.49	1/4	3,485.64	1/4	3,174.77	1/4	2,863.92	1/4	2,553.07	1/4	2,242.20
1/2		1/2		1/2	4,411.74	1/2	4,100.89	1/2	3,790.01	1/2	3,479.17	1/2	3,168.29	1/2	2,857.44	1/2	2,546.60	1/2	2,235.72
3/4		3/4		3/4	4,405.26	3/4	4,094.41	3/4	3,783.54	3/4	3,472.69	3/4	3,161.82	3/4	2,850.97	3/4	2,540.11	3/4	2,229.25
7		7		7	4,398.79	7	4,087.92	7	3,777.06	7	3,466.22	7	3,155.34	7	2,844.49	7	2,533.63	7	2,222.77
1/4		1/4		1/4	4,392.31	1/4	4,081.44	1/4	3,770.59	1/4	3,459.74	1/4	3,148.87	1/4	2,838.02	1/4	2,527.15	1/4	2,216.30
1/2		1/2		1/2	4,385.84	1/2	4,074.96	1/2	3,764.11	1/2	3,453.27	1/2	3,142.39	1/2	2,831.54	1/2	2,520.67	1/2	2,209.82
3/4		3/4		3/4	4,379.36	3/4	4,068.49	3/4	3,757.64	3/4	3,446.78	3/4	3,135.92	3/4	2,825.07	3/4	2,514.20	3/4	2,203.35
8		8		8	4,372.89	8	4,062.01	8	3,751.16	8	3,440.30	8	3,129.44	8	2,818.59	8	2,507.72	8	2,196.87
1/4		1/4		1/4	4,366.41	1/4	4,055.54	1/4	3,744.69	1/4	3,433.82	1/4	3,122.97	1/4	2,812.12	1/4	2,501.25	1/4	2,190.40
1/2		1/2		1/2	4,359.94	1/2	4,049.06	1/2	3,738.21	1/2	3,427.34	1/2	3,116.49	1/2	2,805.64	1/2	2,494.77	1/2	2,183.92
3/4		3/4		3/4	4,353.45	3/4	4,042.59	3/4	3,731.74	3/4	3,420.87	3/4	3,110.02	3/4	2,799.16	3/4	2,488.30	3/4	2,177.45
9		9		9	4,346.97	9	4,036.11	9	3,725.26	9	3,414.39	9	3,103.54	9	2,792.68	9	2,481.82	9	2,170.97
1/4		1/4		1/4	4,340.49	1/4	4,029.64	1/4	3,718.79	1/4	3,407.92	1/4	3,097.07	1/4	2,786.20	1/4	2,475.35	1/4	2,164.50
1/2		1/2		1/2	4,334.01	1/2	4,023.16	1/2	3,712.31	1/2	3,401.44	1/2	3,090.59	1/2	2,779.72	1/2	2,468.87	1/2	2,158.02
3/4		3/4		3/4	4,327.54	3/4	4,016.69	3/4	3,705.83	3/4	3,394.97	3/4	3,084.12	3/4	2,773.25	3/4	2,462.40	3/4	2,151.55
10		10		10	4,321.06	10	4,010.21	10	3,699.35	10	3,388.49	10	3,077.64	10	2,766.77	10	2,455.92	10	2,145.07
1/4		1/4		1/4	4,314.59	1/4	4,003.74	1/4	3,692.87	1/4	3,382.02	1/4	3,071.17	1/4	2,760.30	1/4	2,449.45	1/4	2,138.60
1/2		1/2		1/2	4,308.11	1/2	3,997.26	1/2	3,686.39	1/2	3,375.54	1/2	3,064.69	1/2	2,753.82	1/2	2,442.97	1/2	2,132.12
3/4		3/4		3/4	4,301.64	3/4	3,990.79	3/4	3,679.91	3/4	3,369.07	3/4	3,058.21	3/4	2,747.35	3/4	2,436.50	3/4	2,125.64
11		11		11	4,540.18	11	4,295.16	11	3,984.31	11	3,673.44	11	3,362.59	11	3,051.73	11	2,740.87	11	2,430.02
1/4		1/4		1/4	4,539.63	1/4	4,288.69	1/4	3,977.84	1/4	3,666.96	1/4	3,356.12	1/4	3,045.25	1/4	2,734.40	1/4	2,423.55
1/2		1/2		1/2	4,539.09	1/2	4,282.21	1/2	3,971.36	1/2	3,660.49	1/2	3,349.64	1/2	3,038.77	1/2	2,727.92	1/2	2,417.07
3/4		3/4		3/4	4,537.48	3/4	4,275.74	3/4	3,964.88	3/4	3,654.01	3/4	3,343.17	3/4	3,032.29	3/4	2,721.45	3/4	2,410.59

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 AT GAUGE POINT.
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF THREADS ON MMC VALVE.
GAUGE POINT: (MMC) LOCATED 11'-06" OFF CENTERLINE AND 39'-00" FORWARD OF AFT BULKHEAD.

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



BARGE "HFL 408"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-10 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,093.25	0	1,782.40	0	1,471.54	0	1,160.68	0	850.01	0	539.20	0	236.09	0		0		0	
1/4	2,086.77	1/4	1,775.93	1/4	1,465.06	1/4	1,154.20	1/4	843.54	1/4	532.72	1/4	230.16	1/4		1/4		1/4	
1/2	2,080.30	1/2	1,769.45	1/2	1,458.58	1/2	1,147.73	1/2	837.07	1/2	526.25	1/2	224.24	1/2		1/2		1/2	
3/4	2,073.82	3/4	1,762.98	3/4	1,452.10	3/4	1,141.25	3/4	830.60	3/4	519.77	3/4	218.39	3/4		3/4		3/4	
1	2,067.35	1	1,756.50	1	1,445.63	1	1,134.78	1	824.12	1	513.30	1	212.55	1		1		1	
1/4	2,060.87	1/4	1,750.03	1/4	1,439.15	1/4	1,128.30	1/4	817.65	1/4	506.82	1/4	206.71	1/4		1/4		1/4	
1/2	2,054.40	1/2	1,743.55	1/2	1,432.68	1/2	1,121.83	1/2	811.17	1/2	500.35	1/2	200.86	1/2		1/2		1/2	
3/4	2,047.92	3/4	1,737.07	3/4	1,426.20	3/4	1,115.35	3/4	804.70	3/4	493.87	3/4	195.10	3/4		3/4		3/4	
2	2,041.45	2	1,730.59	2	1,419.73	2	1,108.88	2	798.22	2	487.40	2	189.33	2		2		2	
1/4	2,034.97	1/4	1,724.11	1/4	1,413.25	1/4	1,102.40	1/4	791.75	1/4	480.92	1/4	183.56	1/4		1/4		1/4	
1/2	2,028.50	1/2	1,717.63	1/2	1,406.78	1/2	1,095.93	1/2	785.27	1/2	474.45	1/2	177.80	1/2		1/2		1/2	
3/4	2,022.02	3/4	1,711.15	3/4	1,400.30	3/4	1,089.45	3/4	778.80	3/4	467.97	3/4	172.11	3/4		3/4		3/4	
3	2,015.55	3	1,704.68	3	1,393.83	3	1,082.98	3	772.32	3	461.50	3	166.42	3		3		3	
1/4	2,009.07	1/4	1,698.20	1/4	1,387.35	1/4	1,076.50	1/4	765.85	1/4	455.02	1/4	160.73	1/4		1/4		1/4	
1/2	2,002.60	1/2	1,691.73	1/2	1,380.88	1/2	1,070.03	1/2	759.37	1/2	448.55	1/2	155.04	1/2		1/2		1/2	
3/4	1,996.12	3/4	1,685.25	3/4	1,374.40	3/4	1,063.55	3/4	752.90	3/4	442.07	3/4	149.44	3/4		3/4		3/4	
4	1,989.64	4	1,678.78	4	1,367.93	4	1,057.08	4	746.42	4	435.60	4	143.83	4		4		4	
1/4	1,983.16	1/4	1,672.30	1/4	1,361.45	1/4	1,050.60	1/4	739.95	1/4	429.12	1/4	138.23	1/4		1/4		1/4	
1/2	1,976.67	1/2	1,665.83	1/2	1,354.98	1/2	1,044.13	1/2	733.47	1/2	422.65	1/2	132.62	1/2		1/2		1/2	
3/4	1,970.20	3/4	1,659.35	3/4	1,348.50	3/4	1,037.66	3/4	727.00	3/4	416.17	3/4	127.09	3/4		3/4		3/4	
5	1,963.72	5	1,652.88	5	1,342.02	5	1,031.19	5	720.52	5	409.68	5	121.57	5		5		5	
1/4	1,957.25	1/4	1,646.40	1/4	1,335.53	1/4	1,024.72	1/4	714.05	1/4	403.20	1/4	116.04	1/4		1/4		1/4	
1/2	1,950.77	1/2	1,639.93	1/2	1,329.05	1/2	1,018.25	1/2	707.57	1/2	396.72	1/2	110.51	1/2		1/2		1/2	
3/4	1,944.30	3/4	1,633.45	3/4	1,322.58	3/4	1,011.78	3/4	701.10	3/4	390.33	3/4	105.06	3/4		3/4		3/4	
6	1,937.82	6	1,626.98	6	1,316.10	6	1,005.30	6	694.62	6	383.94	6	99.61	6		6		6	
1/4	1,931.35	1/4	1,620.50	1/4	1,309.63	1/4	998.83	1/4	688.15	1/4	377.55	1/4	94.16	1/4		1/4		1/4	
1/2	1,924.87	1/2	1,614.03	1/2	1,303.15	1/2	992.35	1/2	681.67	1/2	371.16	1/2	88.71	1/2		1/2		1/2	
3/4	1,918.40	3/4	1,607.54	3/4	1,296.68	3/4	985.88	3/4	675.20	3/4	364.84	3/4	83.34	3/4		3/4		3/4	
7	1,911.92	7	1,601.06	7	1,290.20	7	979.41	7	668.72	7	358.52	7	77.96	7		7		7	
1/4	1,905.45	1/4	1,594.58	1/4	1,283.73	1/4	972.95	1/4	662.25	1/4	352.20	1/4	72.59	1/4		1/4		1/4	
1/2	1,898.97	1/2	1,588.10	1/2	1,277.25	1/2	966.48	1/2	655.77	1/2	345.87	1/2	67.22	1/2		1/2		1/2	
3/4	1,892.50	3/4	1,581.63	3/4	1,270.78	3/4	960.01	3/4	649.30	3/4	339.64	3/4	61.93	3/4		3/4		3/4	
8	1,886.02	8	1,575.15	8	1,264.30	8	953.54	8	642.82	8	333.40	8	56.64	8		8		8	
1/4	1,879.55	1/4	1,568.68	1/4	1,257.83	1/4	947.07	1/4	636.35	1/4	327.16	1/4	51.35	1/4		1/4		1/4	
1/2	1,873.07	1/2	1,562.20	1/2	1,251.35	1/2	940.60	1/2	629.87	1/2	320.93	1/2	46.06	1/2		1/2		1/2	
3/4	1,866.59	3/4	1,555.73	3/4	1,244.88	3/4	934.13	3/4	623.40	3/4	314.76	3/4	41.46	3/4		3/4		3/4	
9	1,860.11	9	1,549.25	9	1,238.40	9	927.65	9	616.92	9	308.60	9	36.86	9		9		9	
1/4	1,853.63	1/4	1,542.78	1/4	1,231.93	1/4	921.18	1/4	610.45	1/4	302.43	1/4	32.26	1/4		1/4		1/4	
1/2	1,847.15	1/2	1,536.30	1/2	1,225.45	1/2	914.70	1/2	603.97	1/2	296.27	1/2	27.66	1/2		1/2		1/2	
3/4	1,840.68	3/4	1,529.83	3/4	1,218.97	3/4	908.23	3/4	597.50	3/4	290.18	3/4	24.38	3/4		3/4		3/4	
10	1,834.20	10	1,523.35	10	1,212.49	10	901.76	10	591.02	10	284.10	10	21.10	10		10		10	
1/4	1,827.73	1/4	1,516.88	1/4	1,206.01	1/4	895.29	1/4	584.55	1/4	278.02	1/4	17.82	1/4		1/4		1/4	
1/2	1,821.25	1/2	1,510.40	1/2	1,199.53	1/2	888.82	1/2	578.07	1/2	271.94	1/2	14.53	1/2		1/2		1/2	
3/4	1,814.78	3/4	1,503.93	3/4	1,193.05	3/4	882.35	3/4	571.59	3/4	265.94	3/4		3/4		3/4		3/4	
11	1,808.30	11	1,497.45	11	1,186.58	11	875.89	11	565.11	11	259.94	11		11		11		11	
1/4	1,801.83	1/4	1,490.98	1/4	1,180.10	1/4	869.42	1/4	558.63	1/4	253.94	1/4		1/4		1/4		1/4	
1/2	1,795.35	1/2	1,484.50	1/2	1,173.63	1/2	862.95	1/2	552.15	1/2	247.95	1/2		1/2		1/2		1/2	
3/4	1,788.88	3/4	1,478.02	3/4	1,167.15	3/4	856.48	3/4	545.67	3/4	242.02	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/28/2008 CB
RECALCULATED: 12/01/2023 PMA
VERIFIED: 12/01/2023 PMA

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2023

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



BARGE "HFL 408"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-10 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	5,288.14	0	4,983.31	0	4,624.78	0	4,266.26	0	3,907.76	0	3,549.24	0	3,190.71	0	2,832.21
1/4		1/4		1/4	5,285.80	1/4	4,975.84	1/4	4,617.31	1/4	4,258.80	1/4	3,900.29	1/4	3,541.77	1/4	3,183.25	1/4	2,824.74
1/2		1/2		1/2	5,283.46	1/2	4,968.37	1/2	4,609.84	1/2	4,251.33	1/2	3,892.82	1/2	3,534.30	1/2	3,175.78	1/2	2,817.27
3/4		3/4		3/4	5,281.12	3/4	4,960.90	3/4	4,602.37	3/4	4,243.87	3/4	3,885.35	3/4	3,526.83	3/4	3,168.32	3/4	2,809.80
1		1		1	5,278.78	1	4,953.43	1	4,594.90	1	4,236.40	1	3,877.88	1	3,519.36	1	3,160.85	1	2,802.33
1/4		1/4		1/4	5,275.21	1/4	4,945.96	1/4	4,587.43	1/4	4,228.93	1/4	3,870.41	1/4	3,511.88	1/4	3,153.38	1/4	2,794.86
1/2		1/2		1/2	5,271.63	1/2	4,938.49	1/2	4,579.96	1/2	4,221.46	1/2	3,862.94	1/2	3,504.41	1/2	3,145.91	1/2	2,787.39
3/4		3/4		3/4	5,268.05	3/4	4,931.02	3/4	4,572.49	3/4	4,213.99	3/4	3,855.47	3/4	3,496.94	3/4	3,138.44	3/4	2,779.92
2		2		2	5,264.47	2	4,923.55	2	4,565.02	2	4,206.52	2	3,848.00	2	3,489.47	2	3,130.97	2	2,772.45
1/4		1/4		1/4	5,259.65	1/4	4,916.08	1/4	4,557.56	1/4	4,199.05	1/4	3,840.53	1/4	3,482.01	1/4	3,123.50	1/4	2,764.98
1/2		1/2		1/2	5,254.83	1/2	4,908.61	1/2	4,550.09	1/2	4,191.58	1/2	3,833.06	1/2	3,474.55	1/2	3,116.03	1/2	2,757.51
3/4		3/4		3/4	5,250.01	3/4	4,901.13	3/4	4,542.63	3/4	4,184.11	3/4	3,825.59	3/4	3,467.08	3/4	3,108.56	3/4	2,750.04
3		3		3	5,245.19	3	4,893.66	3	4,535.16	3	4,176.64	3	3,818.12	3	3,459.62	3	3,101.09	3	2,742.57
1/4		1/4		1/4	5,239.12	1/4	4,886.20	1/4	4,527.69	1/4	4,169.17	1/4	3,810.65	1/4	3,452.15	1/4	3,093.62	1/4	2,735.10
1/2		1/2		1/2	5,233.05	1/2	4,878.74	1/2	4,520.22	1/2	4,161.70	1/2	3,803.18	1/2	3,444.68	1/2	3,086.15	1/2	2,727.63
3/4		3/4		3/4	5,226.97	3/4	4,871.27	3/4	4,512.75	3/4	4,154.23	3/4	3,795.71	3/4	3,437.21	3/4	3,078.68	3/4	2,720.16
4		4		4	5,220.90	4	4,863.81	4	4,505.28	4	4,146.76	4	3,788.24	4	3,429.74	4	3,071.21	4	2,712.69
1/4		1/4		1/4	5,213.78	1/4	4,856.34	1/4	4,497.81	1/4	4,139.29	1/4	3,780.77	1/4	3,422.27	1/4	3,063.74	1/4	2,705.22
1/2		1/2		1/2	5,206.66	1/2	4,848.87	1/2	4,490.34	1/2	4,131.82	1/2	3,773.31	1/2	3,414.80	1/2	3,056.27	1/2	2,697.76
3/4		3/4		3/4	5,199.55	3/4	4,841.40	3/4	4,482.87	3/4	4,124.35	3/4	3,765.84	3/4	3,407.33	3/4	3,048.80	3/4	2,690.30
5		5		5	5,192.43	5	4,833.93	5	4,475.40	5	4,116.88	5	3,758.38	5	3,399.86	5	3,041.33	5	2,682.83
1/4		1/4		1/4	5,184.96	1/4	4,826.46	1/4	4,467.93	1/4	4,109.41	1/4	3,750.91	1/4	3,392.38	1/4	3,033.86	1/4	2,675.36
1/2		1/2		1/2	5,177.50	1/2	4,818.99	1/2	4,460.46	1/2	4,101.95	1/2	3,743.44	1/2	3,384.91	1/2	3,026.39	1/2	2,667.89
3/4		3/4		3/4	5,170.03	3/4	4,811.52	3/4	4,452.99	3/4	4,094.49	3/4	3,735.97	3/4	3,377.44	3/4	3,018.92	3/4	2,660.42
6		6		6	5,162.57	6	4,804.05	6	4,445.52	6	4,087.02	6	3,728.50	6	3,369.97	6	3,011.45	6	2,652.95
1/4		1/4		1/4	5,155.10	1/4	4,796.57	1/4	4,438.05	1/4	4,079.55	1/4	3,721.03	1/4	3,362.50	1/4	3,003.99	1/4	2,645.48
1/2		1/2		1/2	5,147.63	1/2	4,789.10	1/2	4,430.58	1/2	4,072.08	1/2	3,713.56	1/2	3,355.03	1/2	2,996.52	1/2	2,638.01
3/4		3/4		3/4	5,140.16	3/4	4,781.63	3/4	4,423.11	3/4	4,064.61	3/4	3,706.09	3/4	3,347.56	3/4	2,989.06	3/4	2,630.54
7		7		7	5,132.69	7	4,774.16	7	4,415.64	7	4,057.14	7	3,698.62	7	3,340.09	7	2,981.59	7	2,623.07
1/4		1/4		1/4	5,125.22	1/4	4,766.69	1/4	4,408.18	1/4	4,049.67	1/4	3,691.15	1/4	3,332.63	1/4	2,974.12	1/4	2,615.60
1/2		1/2		1/2	5,117.75	1/2	4,759.22	1/2	4,400.71	1/2	4,042.20	1/2	3,683.68	1/2	3,325.16	1/2	2,966.65	1/2	2,608.13
3/4		3/4		3/4	5,110.28	3/4	4,751.75	3/4	4,393.25	3/4	4,034.73	3/4	3,676.21	3/4	3,317.70	3/4	2,959.18	3/4	2,600.66
8		8		8	5,102.81	8	4,744.28	8	4,385.78	8	4,027.26	8	3,668.74	8	3,310.24	8	2,951.71	8	2,593.19
1/4		1/4		1/4	5,095.34	1/4	4,736.81	1/4	4,378.31	1/4	4,019.79	1/4	3,661.27	1/4	3,302.77	1/4	2,944.24	1/4	2,585.72
1/2		1/2		1/2	5,087.87	1/2	4,729.34	1/2	4,370.84	1/2	4,012.32	1/2	3,653.80	1/2	3,295.30	1/2	2,936.77	1/2	2,578.25
3/4		3/4		3/4	5,080.40	3/4	4,721.87	3/4	4,363.37	3/4	4,004.85	3/4	3,646.33	3/4	3,287.82	3/4	2,929.30	3/4	2,570.78
9		9		9	5,072.93	9	4,714.40	9	4,355.90	9	3,997.38	9	3,638.86	9	3,280.35	9	2,921.83	9	2,563.31
1/4		1/4		1/4	5,065.46	1/4	4,706.94	1/4	4,348.43	1/4	3,989.91	1/4	3,631.39	1/4	3,272.88	1/4	2,914.36	1/4	2,555.84
1/2		1/2		1/2	5,057.99	1/2	4,699.47	1/2	4,340.96	1/2	3,982.44	1/2	3,623.93	1/2	3,265.41	1/2	2,906.89	1/2	2,548.38
3/4		3/4		3/4	5,050.52	3/4	4,692.01	3/4	4,333.49	3/4	3,974.97	3/4	3,616.46	3/4	3,257.94	3/4	2,899.42	3/4	2,540.91
10		10		10	5,043.05	10	4,684.55	10	4,326.02	10	3,967.50	10	3,609.00	10	3,250.47	10	2,891.95	10	2,533.45
1/4		1/4		1/4	5,035.58	1/4	4,677.07	1/4	4,318.55	1/4	3,960.03	1/4	3,601.53	1/4	3,243.00	1/4	2,884.48	1/4	2,525.98
1/2		1/2		1/2	5,028.12	1/2	4,669.60	1/2	4,311.08	1/2	3,952.56	1/2	3,594.06	1/2	3,235.53	1/2	2,877.01	1/2	2,518.51
3/4		3/4	5,293.26	3/4	5,020.65	3/4	4,662.13	3/4	4,303.61	3/4	3,945.09	3/4	3,586.59	3/4	3,228.06	3/4	2,869.54	3/4	2,511.04
11		11	5,292.47	11	5,013.19	11	4,654.66	11	4,296.14	11	3,937.62	11	3,579.12	11	3,220.59	11	2,862.07	11	2,503.57
1/4		1/4	5,291.39	1/4	5,005.72	1/4	4,647.19	1/4	4,288.67	1/4	3,930.15	1/4	3,571.65	1/4	3,213.12	1/4	2,854.61	1/4	2,496.10
1/2		1/2	5,290.31	1/2	4,998.25	1/2	4,639.72	1/2	4,281.20	1/2	3,922.69	1/2	3,564.18	1/2	3,205.65	1/2	2,847.14	1/2	2,488.63
3/4		3/4	5,289.22	3/4	4,990.78	3/4	4,632.25	3/4	4,273.73	3/4	3,915.22	3/4	3,556.71	3/4	3,198.18	3/4	2,839.68	3/4	2,481.16

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 AT GAUGE POINT.
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF THREADS ON MMC VALVE.
GAUGE POINT: (MMC) LOCATED 11'-06" OFF CENTERLINE AND 45'-00" FORWARD OF AFT BULKHEAD.

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



BARGE "HFL 408"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-10 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,473.69	0	2,115.16	0	1,756.66	0	1,398.14	0	1,041.83	0	683.55	0	325.05	0		0		0	
1/4	2,466.22	1/4	2,107.69	1/4	1,749.19	1/4	1,390.67	1/4	1,034.41	1/4	676.08	1/4	317.58	1/4		1/4		1/4	
1/2	2,458.75	1/2	2,100.22	1/2	1,741.72	1/2	1,383.20	1/2	1,027.00	1/2	668.61	1/2	310.12	1/2		1/2		1/2	
3/4	2,451.28	3/4	2,092.75	3/4	1,734.25	3/4	1,375.73	3/4	1,019.58	3/4	661.13	3/4	302.65	3/4		3/4		3/4	
1	2,443.81	1	2,085.28	1	1,726.78	1	1,368.26	1	1,012.16	1	653.66	1	295.19	1		1		1	
1/4	2,436.34	1/4	2,077.82	1/4	1,719.31	1/4	1,360.79	1/4	1,004.69	1/4	646.20	1/4	287.72	1/4		1/4		1/4	
1/2	2,428.87	1/2	2,070.35	1/2	1,711.84	1/2	1,353.32	1/2	997.22	1/2	638.74	1/2	280.26	1/2		1/2		1/2	
3/4	2,421.40	3/4	2,062.89	3/4	1,704.37	3/4	1,345.85	3/4	989.75	3/4	631.27	3/4	272.80	3/4		3/4		3/4	
2	2,413.93	2	2,055.43	2	1,696.90	2	1,338.38	2	982.28	2	623.81	2	265.33	2		2		2	
1/4	2,406.46	1/4	2,047.96	1/4	1,689.43	1/4	1,330.92	1/4	974.82	1/4	616.34	1/4	257.87	1/4		1/4		1/4	
1/2	2,399.00	1/2	2,040.49	1/2	1,681.96	1/2	1,323.46	1/2	967.36	1/2	608.87	1/2	250.40	1/2		1/2		1/2	
3/4	2,391.53	3/4	2,033.02	3/4	1,674.49	3/4	1,316.00	3/4	959.89	3/4	601.40	3/4	242.94	3/4		3/4		3/4	
3	2,384.07	3	2,025.55	3	1,667.02	3	1,308.55	3	952.43	3	593.93	3	235.47	3		3		3	
1/4	2,376.60	1/4	2,018.07	1/4	1,659.55	1/4	1,301.11	1/4	944.96	1/4	586.46	1/4	228.01	1/4		1/4		1/4	
1/2	2,369.13	1/2	2,010.60	1/2	1,652.08	1/2	1,293.68	1/2	937.49	1/2	578.99	1/2	220.55	1/2		1/2		1/2	
3/4	2,361.66	3/4	2,003.13	3/4	1,644.61	3/4	1,286.24	3/4	930.02	3/4	571.52	3/4	213.08	3/4		3/4		3/4	
4	2,354.19	4	1,995.66	4	1,637.14	4	1,278.81	4	922.55	4	564.05	4	205.62	4		4		4	
1/4	2,346.72	1/4	1,988.19	1/4	1,629.68	1/4	1,271.38	1/4	915.08	1/4	556.58	1/4	198.15	1/4		1/4		1/4	
1/2	2,339.25	1/2	1,980.72	1/2	1,622.21	1/2	1,263.95	1/2	907.61	1/2	549.11	1/2	190.69	1/2		1/2		1/2	
3/4	2,331.78	3/4	1,973.25	3/4	1,614.75	3/4	1,256.52	3/4	900.13	3/4	541.63	3/4	183.22	3/4		3/4		3/4	
5	2,324.31	5	1,965.78	5	1,607.28	5	1,249.09	5	892.66	5	534.16	5	175.76	5		5		5	
1/4	2,316.84	1/4	1,958.31	1/4	1,599.81	1/4	1,241.69	1/4	885.20	1/4	526.69	1/4	168.29	1/4		1/4		1/4	
1/2	2,309.37	1/2	1,950.84	1/2	1,592.34	1/2	1,234.28	1/2	877.74	1/2	519.22	1/2	160.82	1/2		1/2		1/2	
3/4	2,301.90	3/4	1,943.37	3/4	1,584.87	3/4	1,226.88	3/4	870.27	3/4	511.75	3/4	153.35	3/4		3/4		3/4	
6	2,294.43	6	1,935.90	6	1,577.40	6	1,219.47	6	862.81	6	504.28	6	145.88	6		6		6	
1/4	2,286.96	1/4	1,928.44	1/4	1,569.93	1/4	1,212.08	1/4	855.34	1/4	496.82	1/4	138.41	1/4		1/4		1/4	
1/2	2,279.49	1/2	1,920.97	1/2	1,562.46	1/2	1,204.68	1/2	847.87	1/2	489.36	1/2	130.95	1/2		1/2		1/2	
3/4	2,272.02	3/4	1,913.51	3/4	1,554.99	3/4	1,197.28	3/4	840.40	3/4	481.89	3/4	123.49	3/4		3/4		3/4	
7	2,264.55	7	1,906.05	7	1,547.52	7	1,189.88	7	832.93	7	474.43	7	116.02	7		7		7	
1/4	2,257.08	1/4	1,898.57	1/4	1,540.05	1/4	1,182.47	1/4	825.46	1/4	466.96	1/4	108.56	1/4		1/4		1/4	
1/2	2,249.61	1/2	1,891.10	1/2	1,532.58	1/2	1,175.07	1/2	817.99	1/2	459.49	1/2	101.09	1/2		1/2		1/2	
3/4	2,242.13	3/4	1,883.63	3/4	1,525.11	3/4	1,167.66	3/4	810.52	3/4	452.02	3/4	93.63	3/4		3/4		3/4	
8	2,234.66	8	1,876.16	8	1,517.64	8	1,160.26	8	803.05	8	444.55	8	86.16	8		8		8	
1/4	2,227.20	1/4	1,868.69	1/4	1,510.17	1/4	1,152.86	1/4	795.58	1/4	437.08	1/4	78.93	1/4		1/4		1/4	
1/2	2,219.74	1/2	1,861.22	1/2	1,502.70	1/2	1,145.46	1/2	788.12	1/2	429.61	1/2	71.70	1/2		1/2		1/2	
3/4	2,212.27	3/4	1,853.75	3/4	1,495.23	3/4	1,138.06	3/4	780.65	3/4	422.13	3/4	64.47	3/4		3/4		3/4	
9	2,204.81	9	1,846.28	9	1,487.76	9	1,130.66	9	773.19	9	414.66	9	57.24	9		9		9	
1/4	2,197.34	1/4	1,838.81	1/4	1,480.29	1/4	1,123.26	1/4	765.72	1/4	407.19	1/4	51.17	1/4		1/4		1/4	
1/2	2,189.87	1/2	1,831.34	1/2	1,472.82	1/2	1,115.86	1/2	758.25	1/2	399.72	1/2	45.11	1/2		1/2		1/2	
3/4	2,182.40	3/4	1,823.87	3/4	1,465.35	3/4	1,108.45	3/4	750.78	3/4	392.25	3/4	39.04	3/4		3/4		3/4	
10	2,174.93	10	1,816.40	10	1,457.88	10	1,101.05	10	743.31	10	384.78	10	32.97	10		10		10	
1/4	2,167.46	1/4	1,808.93	1/4	1,450.41	1/4	1,093.65	1/4	735.84	1/4	377.32	1/4	28.30	1/4		1/4		1/4	
1/2	2,159.99	1/2	1,801.46	1/2	1,442.95	1/2	1,086.25	1/2	728.37	1/2	369.86	1/2	23.63	1/2		1/2		1/2	
3/4	2,152.52	3/4	1,793.99	3/4	1,435.49	3/4	1,078.85	3/4	720.90	3/4	362.39	3/4	18.95	3/4		3/4		3/4	
11	2,145.05	11	1,786.52	11	1,428.02	11	1,071.45	11	713.43	11	354.93	11		11		11		11	
1/4	2,137.58	1/4	1,779.06	1/4	1,420.55	1/4	1,064.05	1/4	705.96	1/4	347.46	1/4		1/4		1/4		1/4	
1/2	2,130.11	1/2	1,771.59	1/2	1,413.08	1/2	1,056.64	1/2	698.49	1/2	339.99	1/2		1/2		1/2		1/2	
3/4	2,122.63	3/4	1,764.13	3/4	1,405.61	3/4	1,049.24	3/4	691.02	3/4	332.52	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/28/2008 CB
RECALCULATED: 12/01/2023 PMA
VERIFIED: 12/01/2023 PMA

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2023

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



BARGE "HFL 408"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-11 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	5,290.14	0	4,998.09	0	4,639.58	0	4,281.06	0	3,922.56	0	3,564.06	0	3,205.55	0	2,847.05
1/4		1/4		1/4	5,289.05	1/4	4,990.62	1/4	4,632.11	1/4	4,273.59	1/4	3,915.10	1/4	3,556.59	1/4	3,198.08	1/4	2,839.59
1/2		1/2		1/2	5,287.97	1/2	4,983.15	1/2	4,624.64	1/2	4,266.12	1/2	3,907.63	1/2	3,549.12	1/2	3,190.61	1/2	2,832.12
3/4		3/4		3/4	5,285.63	3/4	4,975.68	3/4	4,617.17	3/4	4,258.66	3/4	3,900.16	3/4	3,541.65	3/4	3,183.15	3/4	2,824.65
1		1		1	5,283.29	1	4,968.21	1	4,609.70	1	4,251.19	1	3,892.69	1	3,534.18	1	3,175.68	1	2,817.18
1/4		1/4		1/4	5,280.95	1/4	4,960.74	1/4	4,602.23	1/4	4,243.73	1/4	3,885.22	1/4	3,526.71	1/4	3,168.22	1/4	2,809.71
1/2		1/2		1/2	5,278.61	1/2	4,953.27	1/2	4,594.76	1/2	4,236.27	1/2	3,877.75	1/2	3,519.24	1/2	3,160.75	1/2	2,802.24
3/4		3/4		3/4	5,275.04	3/4	4,945.80	3/4	4,587.29	3/4	4,228.80	3/4	3,870.28	3/4	3,511.77	3/4	3,153.28	3/4	2,794.77
2		2		2	5,271.46	2	4,938.33	2	4,579.82	2	4,221.33	2	3,862.81	2	3,504.30	2	3,145.81	2	2,787.30
1/4		1/4		1/4	5,267.88	1/4	4,930.86	1/4	4,572.35	1/4	4,213.86	1/4	3,855.34	1/4	3,496.83	1/4	3,138.34	1/4	2,779.83
1/2		1/2		1/2	5,264.31	1/2	4,923.39	1/2	4,564.88	1/2	4,206.39	1/2	3,847.87	1/2	3,489.36	1/2	3,130.87	1/2	2,772.36
3/4		3/4		3/4	5,259.48	3/4	4,915.92	3/4	4,557.41	3/4	4,198.92	3/4	3,840.40	3/4	3,481.90	3/4	3,123.40	3/4	2,764.89
3		3		3	5,254.66	3	4,908.45	3	4,549.95	3	4,191.45	3	3,832.93	3	3,474.43	3	3,115.93	3	2,757.42
1/4		1/4		1/4	5,249.84	1/4	4,900.98	1/4	4,542.48	1/4	4,183.98	1/4	3,825.46	1/4	3,466.97	1/4	3,108.46	1/4	2,749.95
1/2		1/2		1/2	5,245.02	1/2	4,893.51	1/2	4,535.02	1/2	4,176.51	1/2	3,817.99	1/2	3,459.51	1/2	3,100.99	1/2	2,742.48
3/4		3/4		3/4	5,238.95	3/4	4,886.04	3/4	4,527.55	3/4	4,169.04	3/4	3,810.52	3/4	3,452.04	3/4	3,093.52	3/4	2,735.01
4		4		4	5,232.88	4	4,878.58	4	4,520.08	4	4,161.57	4	3,803.05	4	3,444.57	4	3,086.05	4	2,727.54
1/4		1/4		1/4	5,226.81	1/4	4,871.12	1/4	4,512.61	1/4	4,154.10	1/4	3,795.58	1/4	3,437.10	1/4	3,078.58	1/4	2,720.07
1/2		1/2		1/2	5,220.74	1/2	4,863.65	1/2	4,505.14	1/2	4,146.63	1/2	3,788.11	1/2	3,429.63	1/2	3,071.11	1/2	2,712.60
3/4		3/4		3/4	5,213.62	3/4	4,856.18	3/4	4,497.67	3/4	4,139.16	3/4	3,780.65	3/4	3,422.16	3/4	3,063.64	3/4	2,705.14
5		5		5	5,206.50	5	4,848.71	5	4,490.20	5	4,131.69	5	3,773.19	5	3,414.69	5	3,056.17	5	2,697.67
1/4		1/4		1/4	5,199.38	1/4	4,841.24	1/4	4,482.73	1/4	4,124.22	1/4	3,765.72	1/4	3,407.22	1/4	3,048.70	1/4	2,690.21
1/2		1/2		1/2	5,192.26	1/2	4,833.77	1/2	4,475.26	1/2	4,116.75	1/2	3,758.26	1/2	3,399.75	1/2	3,041.23	1/2	2,682.74
3/4		3/4		3/4	5,184.80	3/4	4,826.30	3/4	4,467.79	3/4	4,109.28	3/4	3,750.79	3/4	3,392.28	3/4	3,033.76	3/4	2,675.27
6		6		6	5,177.33	6	4,818.83	6	4,460.32	6	4,101.82	6	3,743.32	6	3,384.81	6	3,026.29	6	2,667.80
1/4		1/4		1/4	5,169.87	1/4	4,811.36	1/4	4,452.85	1/4	4,094.35	1/4	3,735.85	1/4	3,377.34	1/4	3,018.82	1/4	2,660.33
1/2		1/2		1/2	5,162.40	1/2	4,803.89	1/2	4,445.38	1/2	4,086.89	1/2	3,728.38	1/2	3,369.87	1/2	3,011.35	1/2	2,652.86
3/4		3/4		3/4	5,154.93	3/4	4,796.42	3/4	4,437.91	3/4	4,079.42	3/4	3,720.91	3/4	3,362.40	3/4	3,003.89	3/4	2,645.39
7		7		7	5,147.46	7	4,788.95	7	4,430.44	7	4,071.95	7	3,713.44	7	3,354.93	7	2,996.43	7	2,637.92
1/4		1/4		1/4	5,139.99	1/4	4,781.48	1/4	4,422.97	1/4	4,064.48	1/4	3,705.97	1/4	3,347.46	1/4	2,988.96	1/4	2,630.45
1/2		1/2		1/2	5,132.52	1/2	4,774.01	1/2	4,415.50	1/2	4,057.01	1/2	3,698.50	1/2	3,339.99	1/2	2,981.50	1/2	2,622.98
3/4		3/4		3/4	5,125.05	3/4	4,766.54	3/4	4,408.03	3/4	4,049.54	3/4	3,691.03	3/4	3,332.52	3/4	2,974.03	3/4	2,615.51
8		8		8	5,117.58	8	4,759.07	8	4,400.57	8	4,042.07	8	3,683.56	8	3,325.06	8	2,966.56	8	2,608.04
1/4		1/4		1/4	5,110.11	1/4	4,751.60	1/4	4,393.11	1/4	4,034.60	1/4	3,676.09	1/4	3,317.59	1/4	2,959.09	1/4	2,600.57
1/2		1/2		1/2	5,102.64	1/2	4,744.13	1/2	4,385.64	1/2	4,027.13	1/2	3,668.62	1/2	3,310.13	1/2	2,951.62	1/2	2,593.10
3/4		3/4		3/4	5,095.17	3/4	4,736.66	3/4	4,378.17	3/4	4,019.66	3/4	3,661.15	3/4	3,302.66	3/4	2,944.15	3/4	2,585.63
9		9		9	5,087.70	9	4,729.19	9	4,370.70	9	4,012.19	9	3,653.68	9	3,295.19	9	2,936.68	9	2,578.16
1/4		1/4		1/4	5,080.23	1/4	4,721.72	1/4	4,363.23	1/4	4,004.72	1/4	3,646.21	1/4	3,287.72	1/4	2,929.21	1/4	2,570.69
1/2		1/2		1/2	5,072.76	1/2	4,714.25	1/2	4,355.76	1/2	3,997.25	1/2	3,638.74	1/2	3,280.25	1/2	2,921.74	1/2	2,563.22
3/4		3/4		3/4	5,065.29	3/4	4,706.79	3/4	4,348.29	3/4	3,989.78	3/4	3,631.27	3/4	3,272.78	3/4	2,914.27	3/4	2,555.76
10		10		10	5,057.82	10	4,699.32	10	4,340.82	10	3,982.31	10	3,623.81	10	3,265.31	10	2,906.80	10	2,548.30
1/4		1/4		1/4	5,050.35	1/4	4,691.86	1/4	4,333.35	1/4	3,974.84	1/4	3,616.35	1/4	3,257.84	1/4	2,899.33	1/4	2,540.83
1/2		1/2		1/2	5,042.88	1/2	4,684.40	1/2	4,325.88	1/2	3,967.37	1/2	3,608.88	1/2	3,250.37	1/2	2,891.86	1/2	2,533.37
3/4		3/4		3/4	5,035.42	3/4	4,676.93	3/4	4,318.41	3/4	3,959.90	3/4	3,601.41	3/4	3,242.90	3/4	2,884.39	3/4	2,525.90
11		11		11	5,027.96	11	4,669.46	11	4,310.94	11	3,952.43	11	3,593.94	11	3,235.43	11	2,876.92	11	2,518.43
1/4		1/4		1/4	5,293.09	1/4	5,020.49	1/4	4,661.99	1/4	4,303.47	1/4	3,944.96	1/4	3,586.47	1/4	3,227.96	1/4	2,510.96
1/2		1/2		1/2	5,292.30	1/2	5,013.03	1/2	4,654.52	1/2	4,296.00	1/2	3,937.49	1/2	3,579.00	1/2	3,220.49	1/2	2,503.49
3/4		3/4		3/4	5,291.22	3/4	5,005.56	3/4	4,647.05	3/4	4,288.53	3/4	3,930.03	3/4	3,571.53	3/4	3,213.02	3/4	2,496.02

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 AT GAUGE POINT.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF THREADS ON MMC VALVE.

GAUGE POINT: (MMC) LOCATED 11'-06" OFF CENTERLINE AND 45'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HFL 408"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-11 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,488.55	0	2,130.04	0	1,771.54	0	1,413.04	0	1,056.61	0	698.46	0	339.98	0		0		0	
1/4	2,481.08	1/4	2,122.57	1/4	1,764.07	1/4	1,405.57	1/4	1,049.20	1/4	690.99	1/4	332.51	1/4		1/4		1/4	
1/2	2,473.61	1/2	2,115.10	1/2	1,756.61	1/2	1,398.10	1/2	1,041.80	1/2	683.52	1/2	325.04	1/2		1/2		1/2	
3/4	2,466.14	3/4	2,107.63	3/4	1,749.14	3/4	1,390.63	3/4	1,034.38	3/4	676.05	3/4	317.57	3/4		3/4		3/4	
1	2,458.67	1	2,100.16	1	1,741.67	1	1,383.16	1	1,026.96	1	668.58	1	310.11	1		1		1	
1/4	2,451.20	1/4	2,092.69	1/4	1,734.20	1/4	1,375.69	1/4	1,019.55	1/4	661.11	1/4	302.64	1/4		1/4		1/4	
1/2	2,443.73	1/2	2,085.22	1/2	1,726.73	1/2	1,368.22	1/2	1,012.13	1/2	653.64	1/2	295.18	1/2		1/2		1/2	
3/4	2,436.26	3/4	2,077.75	3/4	1,719.26	3/4	1,360.75	3/4	1,004.66	3/4	646.18	3/4	287.72	3/4		3/4		3/4	
2	2,428.79	2	2,070.29	2	1,711.79	2	1,353.28	2	997.19	2	638.72	2	280.25	2		2		2	
1/4	2,421.32	1/4	2,062.82	1/4	1,704.32	1/4	1,345.81	1/4	989.72	1/4	631.25	1/4	272.79	1/4		1/4		1/4	
1/2	2,413.85	1/2	2,055.36	1/2	1,696.85	1/2	1,338.34	1/2	982.25	1/2	623.79	1/2	265.32	1/2		1/2		1/2	
3/4	2,406.38	3/4	2,047.89	3/4	1,689.38	3/4	1,330.88	3/4	974.79	3/4	616.32	3/4	257.86	3/4		3/4		3/4	
3	2,398.92	3	2,040.42	3	1,681.91	3	1,323.42	3	967.32	3	608.85	3	250.39	3		3		3	
1/4	2,391.46	1/4	2,032.95	1/4	1,674.44	1/4	1,315.96	1/4	959.86	1/4	601.38	1/4	242.93	1/4		1/4		1/4	
1/2	2,383.99	1/2	2,025.48	1/2	1,666.97	1/2	1,308.50	1/2	952.40	1/2	593.91	1/2	235.47	1/2		1/2		1/2	
3/4	2,376.52	3/4	2,018.01	3/4	1,659.50	3/4	1,301.07	3/4	944.93	3/4	586.44	3/4	228.00	3/4		3/4		3/4	
4	2,369.05	4	2,010.54	4	1,652.03	4	1,293.63	4	937.46	4	578.97	4	220.54	4		4		4	
1/4	2,361.58	1/4	2,003.07	1/4	1,644.56	1/4	1,286.20	1/4	929.99	1/4	571.50	1/4	213.07	1/4		1/4		1/4	
1/2	2,354.11	1/2	1,995.60	1/2	1,637.09	1/2	1,278.77	1/2	922.52	1/2	564.03	1/2	205.61	1/2		1/2		1/2	
3/4	2,346.64	3/4	1,988.13	3/4	1,629.62	3/4	1,271.34	3/4	915.05	3/4	556.56	3/4	198.15	3/4		3/4		3/4	
5	2,339.17	5	1,980.66	5	1,622.16	5	1,263.91	5	907.58	5	549.09	5	190.68	5		5		5	
1/4	2,331.70	1/4	1,973.19	1/4	1,614.70	1/4	1,256.48	1/4	900.11	1/4	541.62	1/4	183.22	1/4		1/4		1/4	
1/2	2,324.23	1/2	1,965.72	1/2	1,607.23	1/2	1,249.05	1/2	892.64	1/2	534.15	1/2	175.75	1/2		1/2		1/2	
3/4	2,316.76	3/4	1,958.25	3/4	1,599.76	3/4	1,241.65	3/4	885.17	3/4	526.68	3/4	168.28	3/4		3/4		3/4	
6	2,309.29	6	1,950.78	6	1,592.29	6	1,234.24	6	877.71	6	519.21	6	160.81	6		6		6	
1/4	2,301.82	1/4	1,943.31	1/4	1,584.82	1/4	1,226.84	1/4	870.24	1/4	511.74	1/4	153.34	1/4		1/4		1/4	
1/2	2,294.35	1/2	1,935.84	1/2	1,577.35	1/2	1,219.43	1/2	862.78	1/2	504.27	1/2	145.87	1/2		1/2		1/2	
3/4	2,286.88	3/4	1,928.38	3/4	1,569.88	3/4	1,212.04	3/4	855.31	3/4	496.80	3/4	138.41	3/4		3/4		3/4	
7	2,279.41	7	1,920.91	7	1,562.41	7	1,204.64	7	847.84	7	489.34	7	130.95	7		7		7	
1/4	2,271.94	1/4	1,913.45	1/4	1,554.94	1/4	1,197.24	1/4	840.37	1/4	481.87	1/4	123.48	1/4		1/4		1/4	
1/2	2,264.47	1/2	1,905.98	1/2	1,547.47	1/2	1,189.84	1/2	832.90	1/2	474.41	1/2	116.02	1/2		1/2		1/2	
3/4	2,257.00	3/4	1,898.51	3/4	1,540.00	3/4	1,182.44	3/4	825.43	3/4	466.94	3/4	108.55	3/4		3/4		3/4	
8	2,249.53	8	1,891.04	8	1,532.53	8	1,175.03	8	817.96	8	459.47	8	101.09	8		8		8	
1/4	2,242.06	1/4	1,883.57	1/4	1,525.06	1/4	1,167.63	1/4	810.49	1/4	452.00	1/4	93.63	1/4		1/4		1/4	
1/2	2,234.59	1/2	1,876.10	1/2	1,517.59	1/2	1,160.22	1/2	803.02	1/2	444.53	1/2	86.16	1/2		1/2		1/2	
3/4	2,227.13	3/4	1,868.63	3/4	1,510.12	3/4	1,152.82	3/4	795.56	3/4	437.06	3/4	78.93	3/4		3/4		3/4	
9	2,219.66	9	1,861.16	9	1,502.65	9	1,145.43	9	788.09	9	429.59	9	71.70	9		9		9	
1/4	2,212.20	1/4	1,853.69	1/4	1,495.18	1/4	1,138.03	1/4	780.63	1/4	422.12	1/4	64.47	1/4		1/4		1/4	
1/2	2,204.74	1/2	1,846.22	1/2	1,487.71	1/2	1,130.63	1/2	773.16	1/2	414.65	1/2	57.23	1/2		1/2		1/2	
3/4	2,197.27	3/4	1,838.75	3/4	1,480.24	3/4	1,123.22	3/4	765.69	3/4	407.18	3/4	51.17	3/4		3/4		3/4	
10	2,189.80	10	1,831.28	10	1,472.77	10	1,115.82	10	758.22	10	399.71	10	45.10	10		10		10	
1/4	2,182.33	1/4	1,823.81	1/4	1,465.30	1/4	1,108.41	1/4	750.75	1/4	392.24	1/4	39.04	1/4		1/4		1/4	
1/2	2,174.86	1/2	1,816.34	1/2	1,457.83	1/2	1,101.01	1/2	743.28	1/2	384.77	1/2	32.97	1/2		1/2		1/2	
3/4	2,167.39	3/4	1,808.87	3/4	1,450.37	3/4	1,093.61	3/4	735.81	3/4	377.31	3/4	28.30	3/4		3/4		3/4	
11	2,159.92	11	1,801.40	11	1,442.90	11	1,086.21	11	728.34	11	369.84	11	23.62	11		11		11	
1/4	2,152.45	1/4	1,793.93	1/4	1,435.44	1/4	1,078.81	1/4	720.87	1/4	362.38	1/4	18.95	1/4		1/4		1/4	
1/2	2,144.98	1/2	1,786.46	1/2	1,427.98	1/2	1,071.42	1/2	713.40	1/2	354.91	1/2		1/2		1/2		1/2	
3/4	2,137.51	3/4	1,779.00	3/4	1,420.51	3/4	1,064.01	3/4	705.93	3/4	347.45	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/28/2008 CB
RECALCULATED: 12/01/2023 PMA
VERIFIED: 12/01/2023 PMA

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2023

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "HFL 408"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-11"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	4,850.47	0	4,629.02	0	4,366.00	0	4,102.97	0	3,839.95	0	3,561.00	0	3,202.26	0	2,843.54
1/4		1/4		1/4	4,848.88	1/4	4,623.54	1/4	4,360.51	1/4	4,097.50	1/4	3,834.47	1/4	3,553.52	1/4	3,194.79	1/4	2,836.07
1/2		1/2		1/2	4,847.28	1/2	4,618.06	1/2	4,355.03	1/2	4,092.02	1/2	3,829.00	1/2	3,546.04	1/2	3,187.32	1/2	2,828.59
3/4		3/4		3/4	4,845.69	3/4	4,612.57	3/4	4,349.55	3/4	4,086.54	3/4	3,823.52	3/4	3,538.57	3/4	3,179.85	3/4	2,821.11
1		1		1	4,844.09	1	4,607.09	1	4,344.07	1	4,081.07	1	3,818.04	1	3,531.09	1	3,172.38	1	2,813.64
1/4		1/4		1/4	4,841.58	1/4	4,601.61	1/4	4,338.59	1/4	4,075.59	1/4	3,812.56	1/4	3,523.62	1/4	3,164.90	1/4	2,806.17
1/2		1/2		1/2	4,839.07	1/2	4,596.14	1/2	4,333.11	1/2	4,070.10	1/2	3,807.08	1/2	3,516.15	1/2	3,157.42	1/2	2,798.70
3/4		3/4		3/4	4,836.56	3/4	4,590.66	3/4	4,327.64	3/4	4,064.62	3/4	3,801.60	3/4	3,508.68	3/4	3,149.95	3/4	2,791.23
2		2		2	4,834.04	2	4,585.19	2	4,322.16	2	4,059.14	2	3,796.11	2	3,501.21	2	3,142.47	2	2,783.76
1/4		1/4		1/4	4,830.62	1/4	4,579.70	1/4	4,316.68	1/4	4,053.66	1/4	3,790.64	1/4	3,493.73	1/4	3,135.00	1/4	2,776.28
1/2		1/2		1/2	4,827.19	1/2	4,574.22	1/2	4,311.20	1/2	4,048.19	1/2	3,785.16	1/2	3,486.26	1/2	3,127.53	1/2	2,768.81
3/4		3/4		3/4	4,823.76	3/4	4,568.74	3/4	4,305.72	3/4	4,042.71	3/4	3,779.69	3/4	3,478.78	3/4	3,120.06	3/4	2,761.33
3		3		3	4,820.33	3	4,563.26	3	4,300.23	3	4,037.23	3	3,774.21	3	3,471.31	3	3,112.59	3	2,753.85
1/4		1/4		1/4	4,816.00	1/4	4,557.78	1/4	4,294.76	1/4	4,031.75	1/4	3,768.73	1/4	3,463.83	1/4	3,105.11	1/4	2,746.38
1/2		1/2		1/2	4,811.66	1/2	4,552.29	1/2	4,289.28	1/2	4,026.27	1/2	3,763.25	1/2	3,456.36	1/2	3,097.64	1/2	2,738.91
3/4		3/4		3/4	4,807.33	3/4	4,546.81	3/4	4,283.81	3/4	4,020.79	3/4	3,757.76	3/4	3,448.89	3/4	3,090.16	3/4	2,731.44
4		4		4	4,803.00	4	4,541.33	4	4,278.33	4	4,015.31	4	3,752.28	4	3,441.42	4	3,082.69	4	2,723.97
1/4		1/4		1/4	4,797.86	1/4	4,535.85	1/4	4,272.85	1/4	4,009.82	1/4	3,746.81	1/4	3,433.95	1/4	3,075.22	1/4	2,716.50
1/2		1/2		1/2	4,792.72	1/2	4,530.38	1/2	4,267.36	1/2	4,004.34	1/2	3,741.33	1/2	3,426.47	1/2	3,067.75	1/2	2,709.02
3/4		3/4		3/4	4,787.59	3/4	4,524.90	3/4	4,261.88	3/4	3,998.86	3/4	3,735.85	3/4	3,419.00	3/4	3,060.28	3/4	2,701.54
5		5		5	4,782.45	5	4,519.42	5	4,256.40	5	3,993.38	5	3,730.38	5	3,411.52	5	3,052.81	5	2,694.07
1/4		1/4		1/4	4,776.97	1/4	4,513.94	1/4	4,250.92	1/4	3,987.90	1/4	3,724.89	1/4	3,404.05	1/4	3,045.33	1/4	2,686.60
1/2		1/2		1/2	4,771.48	1/2	4,508.46	1/2	4,245.45	1/2	3,982.42	1/2	3,719.41	1/2	3,396.58	1/2	3,037.85	1/2	2,679.13
3/4		3/4		3/4	4,766.00	3/4	4,502.98	3/4	4,239.97	3/4	3,976.95	3/4	3,713.93	3/4	3,389.11	3/4	3,030.38	3/4	2,671.66
6		6		6	4,760.52	6	4,497.50	6	4,234.50	6	3,971.47	6	3,708.45	6	3,381.64	6	3,022.90	6	2,664.19
1/4		1/4		1/4	4,755.04	1/4	4,492.02	1/4	4,229.01	1/4	3,965.99	1/4	3,702.97	1/4	3,374.16	1/4	3,015.43	1/4	2,656.71
1/2		1/2		1/2	4,749.56	1/2	4,486.54	1/2	4,223.53	1/2	3,960.51	1/2	3,697.50	1/2	3,366.69	1/2	3,007.96	1/2	2,649.23
3/4		3/4		3/4	4,744.07	3/4	4,481.07	3/4	4,218.05	3/4	3,955.03	3/4	3,692.02	3/4	3,359.21	3/4	3,000.49	3/4	2,641.76
7		7		7	4,738.59	7	4,475.59	7	4,212.57	7	3,949.54	7	3,686.54	7	3,351.73	7	2,993.02	7	2,634.28
1/4		1/4		1/4	4,733.12	1/4	4,470.11	1/4	4,207.09	1/4	3,944.07	1/4	3,681.06	1/4	3,344.26	1/4	2,985.54	1/4	2,626.81
1/2		1/2		1/2	4,727.64	1/2	4,464.63	1/2	4,201.60	1/2	3,938.59	1/2	3,675.58	1/2	3,336.79	1/2	2,978.07	1/2	2,619.34
3/4		3/4		3/4	4,722.16	3/4	4,459.14	3/4	4,196.12	3/4	3,933.11	3/4	3,670.10	3/4	3,329.32	3/4	2,970.59	3/4	2,611.87
8		8		8	4,716.69	8	4,453.66	8	4,190.64	8	3,927.64	8	3,664.61	8	3,321.85	8	2,963.11	8	2,604.40
1/4		1/4		1/4	4,711.20	1/4	4,448.19	1/4	4,185.16	1/4	3,922.16	1/4	3,659.13	1/4	3,314.38	1/4	2,955.64	1/4	2,596.92
1/2		1/2		1/2	4,705.72	1/2	4,442.71	1/2	4,179.69	1/2	3,916.67	1/2	3,653.65	1/2	3,306.90	1/2	2,948.17	1/2	2,589.45
3/4		3/4		3/4	4,700.24	3/4	4,437.23	3/4	4,174.21	3/4	3,911.19	3/4	3,648.17	3/4	3,299.42	3/4	2,940.70	3/4	2,581.97
9		9		9	4,694.76	9	4,431.76	9	4,168.73	9	3,905.71	9	3,642.69	9	3,291.95	9	2,933.23	9	2,574.50
1/4		1/4		1/4	4,689.28	1/4	4,426.28	1/4	4,163.25	1/4	3,900.23	1/4	3,637.21	1/4	3,284.47	1/4	2,925.76	1/4	2,567.03
1/2		1/2		1/2	4,683.81	1/2	4,420.79	1/2	4,157.77	1/2	3,894.76	1/2	3,631.73	1/2	3,277.00	1/2	2,918.28	1/2	2,559.56
3/4		3/4		3/4	4,678.33	3/4	4,415.31	3/4	4,152.29	3/4	3,889.28	3/4	3,626.26	3/4	3,269.52	3/4	2,910.81	3/4	2,552.09
10		10		10	4,672.85	10	4,409.83	10	4,146.81	10	3,883.81	10	3,620.78	10	3,262.04	10	2,903.33	10	2,544.61
1/4		1/4		1/4	4,667.37	1/4	4,404.35	1/4	4,141.33	1/4	3,878.32	1/4	3,613.31	1/4	3,254.57	1/4	2,895.85	1/4	2,537.14
1/2		1/2		1/2	4,661.89	1/2	4,398.86	1/2	4,135.85	1/2	3,872.84	1/2	3,605.83	1/2	3,247.10	1/2	2,888.38	1/2	2,529.66
3/4		3/4		3/4	4,656.41	3/4	4,393.38	3/4	4,130.38	3/4	3,867.36	3/4	3,598.35	3/4	3,239.63	3/4	2,880.90	3/4	2,522.19
11		11	4,853.21	11	4,650.92	11	4,387.90	11	4,124.90	11	3,861.88	11	3,590.88	11	3,232.16	11	2,873.42	11	2,514.71
1/4		1/4	4,852.53	1/4	4,645.45	1/4	4,382.42	1/4	4,119.42	1/4	3,856.39	1/4	3,583.41	1/4	3,224.69	1/4	2,865.95	1/4	2,507.23
1/2		1/2	4,851.84	1/2	4,639.97	1/2	4,376.95	1/2	4,113.94	1/2	3,850.91	1/2	3,575.94	1/2	3,217.21	1/2	2,858.48	1/2	2,499.76
3/4		3/4	4,851.16	3/4	4,634.50	3/4	4,371.47	3/4	4,108.45	3/4	3,845.43	3/4	3,568.47	3/4	3,209.73	3/4	2,851.01	3/4	2,492.28

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 AT GAUGE POINT.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF THREADS ON MMC VALVE.

GAUGE POINT: (MMC) LOCATED 11'-06" OFF CENTERLINE AND 45'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HFL 408"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-11"

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	2,484.81	0	2,126.09	0	1,767.38	0	1,408.64	0	1,050.04	0	691.38	0	332.69	0		0		0	
1/4	2,477.33	1/4	2,118.62	1/4	1,759.90	1/4	1,401.17	1/4	1,042.57	1/4	683.91	1/4	325.22	1/4		1/4		1/4	
1/2	2,469.86	1/2	2,111.15	1/2	1,752.42	1/2	1,393.70	1/2	1,035.10	1/2	676.44	1/2	317.75	1/2		1/2		1/2	
3/4	2,462.39	3/4	2,103.68	3/4	1,744.95	3/4	1,386.23	3/4	1,027.63	3/4	668.97	3/4	310.28	3/4		3/4		3/4	
1	2,454.92	1	2,096.21	1	1,737.47	1	1,378.76	1	1,020.16	1	661.50	1	302.81	1		1		1	
1/4	2,447.45	1/4	2,088.73	1/4	1,730.00	1/4	1,371.28	1/4	1,012.69	1/4	654.02	1/4	295.34	1/4		1/4		1/4	
1/2	2,439.97	1/2	2,081.26	1/2	1,722.53	1/2	1,363.81	1/2	1,005.22	1/2	646.54	1/2	287.88	1/2		1/2		1/2	
3/4	2,432.50	3/4	2,073.78	3/4	1,715.06	3/4	1,356.33	3/4	997.75	3/4	639.07	3/4	280.41	3/4		3/4		3/4	
2	2,425.02	2	2,066.31	2	1,707.59	2	1,348.85	2	990.28	2	631.59	2	272.95	2		2		2	
1/4	2,417.55	1/4	2,058.83	1/4	1,700.11	1/4	1,341.38	1/4	982.81	1/4	624.12	1/4	265.48	1/4		1/4		1/4	
1/2	2,410.08	1/2	2,051.35	1/2	1,692.64	1/2	1,333.91	1/2	975.34	1/2	616.65	1/2	258.01	1/2		1/2		1/2	
3/4	2,402.61	3/4	2,043.88	3/4	1,685.16	3/4	1,326.44	3/4	967.87	3/4	609.18	3/4	250.54	3/4		3/4		3/4	
3	2,395.14	3	2,036.40	3	1,677.69	3	1,318.97	3	960.40	3	601.71	3	243.07	3		3		3	
1/4	2,387.66	1/4	2,028.93	1/4	1,670.21	1/4	1,311.50	1/4	952.93	1/4	594.23	1/4	235.60	1/4		1/4		1/4	
1/2	2,380.19	1/2	2,021.46	1/2	1,662.73	1/2	1,304.02	1/2	945.46	1/2	586.76	1/2	228.13	1/2		1/2		1/2	
3/4	2,372.71	3/4	2,013.99	3/4	1,655.26	3/4	1,296.54	3/4	937.99	3/4	579.28	3/4	220.66	3/4		3/4		3/4	
4	2,365.23	4	2,006.52	4	1,647.78	4	1,289.07	4	930.52	4	571.81	4	213.19	4		4		4	
1/4	2,357.76	1/4	1,999.04	1/4	1,640.31	1/4	1,281.60	1/4	923.04	1/4	564.33	1/4	205.72	1/4		1/4		1/4	
1/2	2,350.29	1/2	1,991.57	1/2	1,632.84	1/2	1,274.13	1/2	915.57	1/2	556.86	1/2	198.25	1/2		1/2		1/2	
3/4	2,342.82	3/4	1,984.09	3/4	1,625.37	3/4	1,266.66	3/4	908.09	3/4	549.39	3/4	190.78	3/4		3/4		3/4	
5	2,335.35	5	1,976.61	5	1,617.90	5	1,259.19	5	900.62	5	541.92	5	183.31	5		5		5	
1/4	2,327.88	1/4	1,969.14	1/4	1,610.42	1/4	1,251.72	1/4	893.14	1/4	534.45	1/4	175.83	1/4		1/4		1/4	
1/2	2,320.40	1/2	1,961.67	1/2	1,602.95	1/2	1,244.25	1/2	885.67	1/2	526.97	1/2	168.36	1/2		1/2		1/2	
3/4	2,312.92	3/4	1,954.20	3/4	1,595.47	3/4	1,236.78	3/4	878.20	3/4	519.50	3/4	160.89	3/4		3/4		3/4	
6	2,305.45	6	1,946.73	6	1,588.00	6	1,229.31	6	870.73	6	512.02	6	153.42	6		6		6	
1/4	2,297.98	1/4	1,939.26	1/4	1,580.53	1/4	1,221.84	1/4	863.26	1/4	504.55	1/4	145.95	1/4		1/4		1/4	
1/2	2,290.51	1/2	1,931.78	1/2	1,573.06	1/2	1,214.38	1/2	855.79	1/2	497.08	1/2	138.48	1/2		1/2		1/2	
3/4	2,283.04	3/4	1,924.31	3/4	1,565.59	3/4	1,206.91	3/4	848.32	3/4	489.61	3/4	131.01	3/4		3/4		3/4	
7	2,275.57	7	1,916.83	7	1,558.11	7	1,199.45	7	840.85	7	482.14	7	123.54	7		7		7	
1/4	2,268.09	1/4	1,909.36	1/4	1,550.64	1/4	1,191.98	1/4	833.38	1/4	474.66	1/4	116.08	1/4		1/4		1/4	
1/2	2,260.61	1/2	1,901.89	1/2	1,543.16	1/2	1,184.51	1/2	825.90	1/2	467.19	1/2	108.61	1/2		1/2		1/2	
3/4	2,253.14	3/4	1,894.42	3/4	1,535.69	3/4	1,177.04	3/4	818.42	3/4	459.71	3/4	101.15	3/4		3/4		3/4	
8	2,245.66	8	1,886.95	8	1,528.21	8	1,169.57	8	810.95	8	452.23	8	93.69	8		8		8	
1/4	2,238.19	1/4	1,879.47	1/4	1,520.74	1/4	1,162.10	1/4	803.48	1/4	444.76	1/4	86.22	1/4		1/4		1/4	
1/2	2,230.72	1/2	1,872.00	1/2	1,513.27	1/2	1,154.63	1/2	796.01	1/2	437.29	1/2	78.75	1/2		1/2		1/2	
3/4	2,223.25	3/4	1,864.52	3/4	1,505.80	3/4	1,147.16	3/4	788.54	3/4	429.82	3/4	71.28	3/4		3/4		3/4	
9	2,215.78	9	1,857.04	9	1,498.33	9	1,139.69	9	781.07	9	422.35	9	63.81	9		9		9	
1/4	2,208.31	1/4	1,849.57	1/4	1,490.85	1/4	1,132.21	1/4	773.59	1/4	414.88	1/4	57.26	1/4		1/4		1/4	
1/2	2,200.83	1/2	1,842.10	1/2	1,483.38	1/2	1,124.74	1/2	766.11	1/2	407.41	1/2	50.72	1/2		1/2		1/2	
3/4	2,193.35	3/4	1,834.63	3/4	1,475.90	3/4	1,117.27	3/4	758.64	3/4	399.94	3/4	44.18	3/4		3/4		3/4	
10	2,185.88	10	1,827.16	10	1,468.42	10	1,109.80	10	751.16	10	392.47	10	37.64	10		10		10	
1/4	2,178.41	1/4	1,819.69	1/4	1,460.95	1/4	1,102.33	1/4	743.69	1/4	385.00	1/4	32.97	1/4		1/4		1/4	
1/2	2,170.94	1/2	1,812.21	1/2	1,453.48	1/2	1,094.86	1/2	736.22	1/2	377.52	1/2	28.31	1/2		1/2		1/2	
3/4	2,163.47	3/4	1,804.73	3/4	1,446.01	3/4	1,087.39	3/4	728.75	3/4	370.04	3/4	23.64	3/4		3/4		3/4	
11	2,156.00	11	1,797.26	11	1,438.54	11	1,079.92	11	721.28	11	362.57	11	18.98	11		11		11	
1/4	2,148.52	1/4	1,789.79	1/4	1,431.07	1/4	1,072.45	1/4	713.81	1/4	355.10	1/4		1/4		1/4		1/4	
1/2	2,141.04	1/2	1,782.32	1/2	1,423.59	1/2	1,064.98	1/2	706.33	1/2	347.63	1/2		1/2		1/2		1/2	
3/4	2,133.57	3/4	1,774.85	3/4	1,416.11	3/4	1,057.51	3/4	698.85	3/4	340.16	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/28/2008 CB
RECALCULATED: 12/01/2023 PMA
VERIFIED: 12/01/2023 PMA

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2023

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



BARGE "HFL 408"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-11 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	4,851.28	0	4,634.61	0	4,371.58	0	4,108.56	0	3,845.53	0	3,568.55	0	3,209.81	0	2,851.09
1/4		1/4		1/4	4,850.59	1/4	4,629.13	1/4	4,366.10	1/4	4,103.07	1/4	3,840.04	1/4	3,561.08	1/4	3,202.34	1/4	2,843.61
1/2		1/2		1/2	4,849.00	1/2	4,623.65	1/2	4,360.62	1/2	4,097.60	1/2	3,834.57	1/2	3,553.61	1/2	3,194.87	1/2	2,836.14
3/4		3/4		3/4	4,847.40	3/4	4,618.17	3/4	4,355.14	3/4	4,092.12	3/4	3,829.09	3/4	3,546.13	3/4	3,187.40	3/4	2,828.66
1		1		1	4,845.81	1	4,612.69	1	4,349.66	1	4,086.64	1	3,823.61	1	3,538.66	1	3,179.93	1	2,821.19
1/4		1/4		1/4	4,844.21	1/4	4,607.20	1/4	4,344.17	1/4	4,081.17	1/4	3,818.14	1/4	3,531.18	1/4	3,172.46	1/4	2,813.71
1/2		1/2		1/2	4,841.70	1/2	4,601.73	1/2	4,338.70	1/2	4,075.69	1/2	3,812.66	1/2	3,523.71	1/2	3,164.98	1/2	2,806.24
3/4		3/4		3/4	4,839.19	3/4	4,596.25	3/4	4,333.22	3/4	4,070.20	3/4	3,807.17	3/4	3,516.24	3/4	3,157.50	3/4	2,798.77
2		2		2	4,836.67	2	4,590.78	2	4,327.75	2	4,064.72	2	3,801.69	2	3,508.77	2	3,150.03	2	2,791.30
1/4		1/4		1/4	4,834.16	1/4	4,585.30	1/4	4,322.27	1/4	4,059.24	1/4	3,796.21	1/4	3,501.30	1/4	3,142.55	1/4	2,783.83
1/2		1/2		1/2	4,830.73	1/2	4,579.82	1/2	4,316.79	1/2	4,053.76	1/2	3,790.73	1/2	3,493.82	1/2	3,135.08	1/2	2,776.35
3/4		3/4		3/4	4,827.31	3/4	4,574.34	3/4	4,311.31	3/4	4,048.29	3/4	3,785.26	3/4	3,486.34	3/4	3,127.61	3/4	2,768.88
3		3		3	4,823.88	3	4,568.85	3	4,305.82	3	4,042.81	3	3,779.78	3	3,478.87	3	3,120.14	3	2,761.40
1/4		1/4		1/4	4,820.45	1/4	4,563.37	1/4	4,300.34	1/4	4,037.33	1/4	3,774.30	1/4	3,471.39	1/4	3,112.67	1/4	2,753.92
1/2		1/2		1/2	4,816.11	1/2	4,557.89	1/2	4,294.86	1/2	4,031.85	1/2	3,768.82	1/2	3,463.92	1/2	3,105.19	1/2	2,746.45
3/4		3/4		3/4	4,811.78	3/4	4,552.41	3/4	4,289.39	3/4	4,026.37	3/4	3,763.34	3/4	3,456.45	3/4	3,097.72	3/4	2,738.98
4		4		4	4,807.45	4	4,546.92	4	4,283.91	4	4,020.89	4	3,757.86	4	3,448.98	4	3,090.24	4	2,731.51
1/4		1/4		1/4	4,803.11	1/4	4,541.44	1/4	4,278.44	1/4	4,015.41	1/4	3,752.37	1/4	3,441.51	1/4	3,082.76	1/4	2,724.04
1/2		1/2		1/2	4,797.98	1/2	4,535.97	1/2	4,272.95	1/2	4,009.92	1/2	3,746.90	1/2	3,434.03	1/2	3,075.29	1/2	2,716.56
3/4		3/4		3/4	4,792.84	3/4	4,530.49	3/4	4,267.47	3/4	4,004.44	3/4	3,741.42	3/4	3,426.56	3/4	3,067.82	3/4	2,709.09
5		5		5	4,787.70	5	4,525.01	5	4,261.99	5	3,998.96	5	3,735.95	5	3,419.08	5	3,060.35	5	2,701.61
1/4		1/4		1/4	4,782.57	1/4	4,519.54	1/4	4,256.51	1/4	3,993.48	1/4	3,730.47	1/4	3,411.60	1/4	3,052.88	1/4	2,694.14
1/2		1/2		1/2	4,777.08	1/2	4,514.05	1/2	4,251.03	1/2	3,988.00	1/2	3,724.99	1/2	3,404.13	1/2	3,045.41	1/2	2,686.66
3/4		3/4		3/4	4,771.60	3/4	4,508.57	3/4	4,245.55	3/4	3,982.52	3/4	3,719.51	3/4	3,396.66	3/4	3,037.93	3/4	2,679.19
6		6		6	4,766.12	6	4,503.09	6	4,240.08	6	3,977.05	6	3,714.02	6	3,389.19	6	3,030.45	6	2,671.72
1/4		1/4		1/4	4,760.64	1/4	4,497.61	1/4	4,234.60	1/4	3,971.57	1/4	3,708.54	1/4	3,381.72	1/4	3,022.98	1/4	2,664.25
1/2		1/2		1/2	4,755.15	1/2	4,492.13	1/2	4,229.12	1/2	3,966.09	1/2	3,703.06	1/2	3,374.25	1/2	3,015.51	1/2	2,656.78
3/4		3/4		3/4	4,749.67	3/4	4,486.65	3/4	4,223.64	3/4	3,960.61	3/4	3,697.59	3/4	3,366.77	3/4	3,008.04	3/4	2,649.30
7		7		7	4,744.19	7	4,481.18	7	4,218.15	7	3,955.12	7	3,692.11	7	3,359.29	7	3,000.57	7	2,641.82
1/4		1/4		1/4	4,738.71	1/4	4,475.70	1/4	4,212.67	1/4	3,949.64	1/4	3,686.64	1/4	3,351.82	1/4	2,993.09	1/4	2,634.35
1/2		1/2		1/2	4,733.23	1/2	4,470.22	1/2	4,207.19	1/2	3,944.17	1/2	3,681.15	1/2	3,344.35	1/2	2,985.62	1/2	2,626.88
3/4		3/4		3/4	4,727.76	3/4	4,464.74	3/4	4,201.71	3/4	3,938.69	3/4	3,675.67	3/4	3,336.88	3/4	2,978.14	3/4	2,619.41
8		8		8	4,722.28	8	4,459.26	8	4,196.22	8	3,933.21	8	3,670.19	8	3,329.41	8	2,970.67	8	2,611.94
1/4		1/4		1/4	4,716.80	1/4	4,453.77	1/4	4,190.74	1/4	3,927.74	1/4	3,664.71	1/4	3,321.94	1/4	2,963.19	1/4	2,604.47
1/2		1/2		1/2	4,711.32	1/2	4,448.30	1/2	4,185.27	1/2	3,922.25	1/2	3,659.22	1/2	3,314.46	1/2	2,955.72	1/2	2,596.99
3/4		3/4		3/4	4,705.84	3/4	4,442.82	3/4	4,179.79	3/4	3,916.77	3/4	3,653.74	3/4	3,306.98	3/4	2,948.25	3/4	2,589.51
9		9		9	4,700.36	9	4,437.34	9	4,174.31	9	3,911.29	9	3,648.26	9	3,299.51	9	2,940.78	9	2,582.04
1/4		1/4		1/4	4,694.87	1/4	4,431.87	1/4	4,168.84	1/4	3,905.81	1/4	3,642.78	1/4	3,292.03	1/4	2,933.31	1/4	2,574.56
1/2		1/2		1/2	4,689.40	1/2	4,426.39	1/2	4,163.36	1/2	3,900.33	1/2	3,637.30	1/2	3,284.55	1/2	2,925.83	1/2	2,567.09
3/4		3/4		3/4	4,683.92	3/4	4,420.90	3/4	4,157.87	3/4	3,894.85	3/4	3,631.82	3/4	3,277.08	3/4	2,918.35	3/4	2,559.62
10		10		10	4,678.44	10	4,415.42	10	4,152.39	10	3,889.38	10	3,626.35	10	3,269.60	10	2,910.88	10	2,552.15
1/4		1/4		1/4	4,672.97	1/4	4,409.94	1/4	4,146.91	1/4	3,883.90	1/4	3,620.87	1/4	3,262.13	1/4	2,903.40	1/4	2,544.68
1/2		1/2		1/2	4,667.49	1/2	4,404.46	1/2	4,141.43	1/2	3,878.42	1/2	3,613.40	1/2	3,254.65	1/2	2,895.93	1/2	2,537.20
3/4		3/4		3/4	4,662.00	3/4	4,398.97	3/4	4,135.96	3/4	3,872.94	3/4	3,605.92	3/4	3,247.18	3/4	2,888.45	3/4	2,529.73
11		11		11	4,656.52	11	4,393.49	11	4,130.48	11	3,867.46	11	3,598.44	11	3,239.71	11	2,880.97	11	2,522.25
1/4		1/4		1/4	4,853.33	1/4	4,651.04	1/4	4,388.01	1/4	4,125.00	1/4	3,861.97	1/4	3,590.97	1/4	3,232.24	1/4	2,514.77
1/2		1/2		1/2	4,852.65	1/2	4,645.56	1/2	4,382.53	1/2	4,119.52	1/2	3,856.49	1/2	3,583.50	1/2	3,224.77	1/2	2,507.30
3/4		3/4		3/4	4,851.96	3/4	4,640.09	3/4	4,377.06	3/4	4,114.04	3/4	3,851.01	3/4	3,576.03	3/4	3,217.29	3/4	2,499.82

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 AT GAUGE POINT.
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF THREADS ON MMC VALVE.
GAUGE POINT: (MMC) LOCATED 11'-06" OFF CENTERLINE AND 45'-00" FORWARD OF AFT BULKHEAD.

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



BARGE "HFL 408"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-11 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,492.34	0	2,133.62	0	1,774.89	0	1,416.15	0	1,057.54	0	698.87	0	340.17	0		0		0	
1/4	2,484.87	1/4	2,126.15	1/4	1,767.42	1/4	1,408.68	1/4	1,050.07	1/4	691.40	1/4	332.70	1/4		1/4		1/4	
1/2	2,477.40	1/2	2,118.67	1/2	1,759.95	1/2	1,401.21	1/2	1,042.60	1/2	683.93	1/2	325.23	1/2		1/2		1/2	
3/4	2,469.93	3/4	2,111.20	3/4	1,752.47	3/4	1,393.73	3/4	1,035.13	3/4	676.46	3/4	317.76	3/4		3/4		3/4	
1	2,462.46	1	2,103.73	1	1,744.99	1	1,386.26	1	1,027.66	1	668.99	1	310.29	1		1		1	
1/4	2,454.99	1/4	2,096.26	1/4	1,737.52	1/4	1,378.79	1/4	1,020.19	1/4	661.51	1/4	302.82	1/4		1/4		1/4	
1/2	2,447.51	1/2	2,088.79	1/2	1,730.05	1/2	1,371.32	1/2	1,012.72	1/2	654.04	1/2	295.35	1/2		1/2		1/2	
3/4	2,440.03	3/4	2,081.31	3/4	1,722.58	3/4	1,363.84	3/4	1,005.25	3/4	646.56	3/4	287.89	3/4		3/4		3/4	
2	2,432.56	2	2,073.83	2	1,715.11	2	1,356.36	2	997.78	2	639.09	2	280.42	2		2		2	
1/4	2,425.08	1/4	2,066.36	1/4	1,707.64	1/4	1,348.89	1/4	990.31	1/4	631.61	1/4	272.96	1/4		1/4		1/4	
1/2	2,417.61	1/2	2,058.88	1/2	1,700.16	1/2	1,341.42	1/2	982.84	1/2	624.14	1/2	265.49	1/2		1/2		1/2	
3/4	2,410.14	3/4	2,051.41	3/4	1,692.68	3/4	1,333.95	3/4	975.37	3/4	616.67	3/4	258.02	3/4		3/4		3/4	
3	2,402.67	3	2,043.93	3	1,685.21	3	1,326.48	3	967.90	3	609.20	3	250.55	3		3		3	
1/4	2,395.20	1/4	2,036.45	1/4	1,677.73	1/4	1,319.01	1/4	960.43	1/4	601.73	1/4	243.08	1/4		1/4		1/4	
1/2	2,387.72	1/2	2,028.98	1/2	1,670.25	1/2	1,311.53	1/2	952.96	1/2	594.25	1/2	235.61	1/2		1/2		1/2	
3/4	2,380.25	3/4	2,021.51	3/4	1,662.78	3/4	1,304.05	3/4	945.49	3/4	586.78	3/4	228.14	3/4		3/4		3/4	
4	2,372.77	4	2,014.04	4	1,655.30	4	1,296.58	4	938.02	4	579.30	4	220.66	4		4		4	
1/4	2,365.29	1/4	2,006.57	1/4	1,647.82	1/4	1,289.10	1/4	930.55	1/4	571.82	1/4	213.19	1/4		1/4		1/4	
1/2	2,357.82	1/2	1,999.09	1/2	1,640.35	1/2	1,281.63	1/2	923.07	1/2	564.35	1/2	205.72	1/2		1/2		1/2	
3/4	2,350.35	3/4	1,991.62	3/4	1,632.88	3/4	1,274.16	3/4	915.59	3/4	556.88	3/4	198.25	3/4		3/4		3/4	
5	2,342.88	5	1,984.14	5	1,625.41	5	1,266.69	5	908.12	5	549.41	5	190.78	5		5		5	
1/4	2,335.41	1/4	1,976.67	1/4	1,617.94	1/4	1,259.22	1/4	900.64	1/4	541.94	1/4	183.31	1/4		1/4		1/4	
1/2	2,327.94	1/2	1,969.20	1/2	1,610.47	1/2	1,251.75	1/2	893.17	1/2	534.46	1/2	175.84	1/2		1/2		1/2	
3/4	2,320.46	3/4	1,961.72	3/4	1,602.99	3/4	1,244.28	3/4	885.70	3/4	526.99	3/4	168.37	3/4		3/4		3/4	
6	2,312.98	6	1,954.25	6	1,595.51	6	1,236.81	6	878.23	6	519.51	6	160.90	6		6		6	
1/4	2,305.51	1/4	1,946.78	1/4	1,588.04	1/4	1,229.34	1/4	870.76	1/4	512.04	1/4	153.43	1/4		1/4		1/4	
1/2	2,298.04	1/2	1,939.31	1/2	1,580.57	1/2	1,221.87	1/2	863.29	1/2	504.56	1/2	145.96	1/2		1/2		1/2	
3/4	2,290.57	3/4	1,931.83	3/4	1,573.10	3/4	1,214.41	3/4	855.82	3/4	497.09	3/4	138.49	3/4		3/4		3/4	
7	2,283.10	7	1,924.35	7	1,565.63	7	1,206.94	7	848.35	7	489.62	7	131.02	7		7		7	
1/4	2,275.63	1/4	1,916.88	1/4	1,558.16	1/4	1,199.48	1/4	840.88	1/4	482.15	1/4	123.55	1/4		1/4		1/4	
1/2	2,268.15	1/2	1,909.41	1/2	1,550.68	1/2	1,192.01	1/2	833.40	1/2	474.68	1/2	116.09	1/2		1/2		1/2	
3/4	2,260.67	3/4	1,901.94	3/4	1,543.20	3/4	1,184.54	3/4	825.92	3/4	467.20	3/4	108.62	3/4		3/4		3/4	
8	2,253.20	8	1,894.47	8	1,535.73	8	1,177.07	8	818.45	8	459.72	8	101.16	8		8		8	
1/4	2,245.72	1/4	1,887.00	1/4	1,528.25	1/4	1,169.60	1/4	810.97	1/4	452.25	1/4	93.69	1/4		1/4		1/4	
1/2	2,238.25	1/2	1,879.52	1/2	1,520.78	1/2	1,162.13	1/2	803.50	1/2	444.78	1/2	86.22	1/2		1/2		1/2	
3/4	2,230.78	3/4	1,872.04	3/4	1,513.31	3/4	1,154.66	3/4	796.03	3/4	437.31	3/4	78.75	3/4		3/4		3/4	
9	2,223.31	9	1,864.57	9	1,505.84	9	1,147.19	9	788.56	9	429.84	9	71.28	9		9		9	
1/4	2,215.84	1/4	1,857.09	1/4	1,498.37	1/4	1,139.72	1/4	781.09	1/4	422.37	1/4	63.81	1/4		1/4		1/4	
1/2	2,208.36	1/2	1,849.62	1/2	1,490.89	1/2	1,132.25	1/2	773.61	1/2	414.90	1/2	57.27	1/2		1/2		1/2	
3/4	2,200.89	3/4	1,842.15	3/4	1,483.42	3/4	1,124.78	3/4	766.14	3/4	407.43	3/4	50.73	3/4		3/4		3/4	
10	2,193.41	10	1,834.68	10	1,475.94	10	1,117.31	10	758.66	10	399.96	10	44.18	10		10		10	
1/4	2,185.93	1/4	1,827.21	1/4	1,468.46	1/4	1,109.83	1/4	751.18	1/4	392.48	1/4	37.64	1/4		1/4		1/4	
1/2	2,178.46	1/2	1,819.73	1/2	1,460.99	1/2	1,102.36	1/2	743.71	1/2	385.01	1/2	32.98	1/2		1/2		1/2	
3/4	2,170.99	3/4	1,812.26	3/4	1,453.52	3/4	1,094.89	3/4	736.24	3/4	377.53	3/4	28.31	3/4		3/4		3/4	
11	2,163.52	11	1,804.78	11	1,446.05	11	1,087.42	11	728.77	11	370.06	11	23.64	11		11		11	
1/4	2,156.05	1/4	1,797.30	1/4	1,438.58	1/4	1,079.95	1/4	721.30	1/4	362.58	1/4	18.98	1/4		1/4		1/4	
1/2	2,148.57	1/2	1,789.83	1/2	1,431.10	1/2	1,072.48	1/2	713.83	1/2	355.11	1/2		1/2		1/2		1/2	
3/4	2,141.10	3/4	1,782.36	3/4	1,423.63	3/4	1,065.01	3/4	706.35	3/4	347.64	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/28/2008 CB
RECALCULATED: 12/01/2023 PMA
VERIFIED: 12/01/2023 PMA

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2023

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



BARGE "HFL 408"

PORT SLOP INNAGE TABLE

CAPACITIES GIVEN IN WHOLE 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	1,018	0	2,035	0	3,053	0	4,071	0	5,089	0		0		0		0	
1/4	21	1/4	1,039	1/4	2,057	1/4	3,074	1/4	4,092	1/4		1/4		1/4		1/4		1/4	
1/2	42	1/2	1,060	1/2	2,078	1/2	3,096	1/2	4,113	1/2		1/2		1/2		1/2		1/2	
3/4	64	3/4	1,081	3/4	2,099	3/4	3,117	3/4	4,134	3/4		3/4		3/4		3/4		3/4	
1	85	1	1,103	1	2,120	1	3,138	1	4,156	1		1		1		1		1	
1/4	106	1/4	1,124	1/4	2,141	1/4	3,159	1/4	4,177	1/4		1/4		1/4		1/4		1/4	
1/2	127	1/2	1,145	1/2	2,163	1/2	3,180	1/2	4,198	1/2		1/2		1/2		1/2		1/2	
3/4	148	3/4	1,166	3/4	2,184	3/4	3,202	3/4	4,219	3/4		3/4		3/4		3/4		3/4	
2	170	2	1,187	2	2,205	2	3,223	2	4,240	2		2		2		2		2	
1/4	191	1/4	1,209	1/4	2,226	1/4	3,244	1/4	4,262	1/4		1/4		1/4		1/4		1/4	
1/2	212	1/2	1,230	1/2	2,247	1/2	3,265	1/2	4,283	1/2		1/2		1/2		1/2		1/2	
3/4	233	3/4	1,251	3/4	2,269	3/4	3,286	3/4	4,304	3/4		3/4		3/4		3/4		3/4	
3	254	3	1,272	3	2,290	3	3,308	3	4,325	3		3		3		3		3	
1/4	276	1/4	1,293	1/4	2,311	1/4	3,329	1/4	4,346	1/4		1/4		1/4		1/4		1/4	
1/2	297	1/2	1,315	1/2	2,332	1/2	3,350	1/2	4,368	1/2		1/2		1/2		1/2		1/2	
3/4	318	3/4	1,336	3/4	2,353	3/4	3,371	3/4	4,389	3/4		3/4		3/4		3/4		3/4	
4	339	4	1,357	4	2,375	4	3,392	4	4,410	4		4		4		4		4	
1/4	360	1/4	1,378	1/4	2,396	1/4	3,414	1/4	4,431	1/4		1/4		1/4		1/4		1/4	
1/2	382	1/2	1,399	1/2	2,417	1/2	3,435	1/2	4,453	1/2		1/2		1/2		1/2		1/2	
3/4	403	3/4	1,421	3/4	2,438	3/4	3,456	3/4	4,474	3/4		3/4		3/4		3/4		3/4	
5	424	5	1,442	5	2,459	5	3,477	5	4,495	5		5		5		5		5	
1/4	445	1/4	1,463	1/4	2,481	1/4	3,498	1/4	4,516	1/4		1/4		1/4		1/4		1/4	
1/2	466	1/2	1,484	1/2	2,502	1/2	3,520	1/2	4,537	1/2		1/2		1/2		1/2		1/2	
3/4	488	3/4	1,505	3/4	2,523	3/4	3,541	3/4	4,559	3/4		3/4		3/4		3/4		3/4	
6	509	6	1,527	6	2,544	6	3,562	6	4,580	6		6		6		6		6	
1/4	530	1/4	1,548	1/4	2,565	1/4	3,583	1/4	4,601	1/4		1/4		1/4		1/4		1/4	
1/2	551	1/2	1,569	1/2	2,587	1/2	3,604	1/2	4,622	1/2		1/2		1/2		1/2		1/2	
3/4	572	3/4	1,590	3/4	2,608	3/4	3,626	3/4	4,643	3/4		3/4		3/4		3/4		3/4	
7	594	7	1,611	7	2,629	7	3,647	7	4,665	7		7		7		7		7	
1/4	615	1/4	1,633	1/4	2,650	1/4	3,668	1/4	4,686	1/4		1/4		1/4		1/4		1/4	
1/2	636	1/2	1,654	1/2	2,672	1/2	3,689	1/2	4,707	1/2		1/2		1/2		1/2		1/2	
3/4	657	3/4	1,675	3/4	2,693	3/4	3,710	3/4	4,728	3/4		3/4		3/4		3/4		3/4	
8	678	8	1,696	8	2,714	8	3,732	8	4,749	8		8		8		8		8	
1/4	700	1/4	1,717	1/4	2,735	1/4	3,753	1/4	4,771	1/4		1/4		1/4		1/4		1/4	
1/2	721	1/2	1,739	1/2	2,756	1/2	3,774	1/2	4,792	1/2		1/2		1/2		1/2		1/2	
3/4	742	3/4	1,760	3/4	2,778	3/4	3,795	3/4	4,813	3/4		3/4		3/4		3/4		3/4	
9	763	9	1,781	9	2,799	9	3,816	9	4,834	9		9		9		9		9	
1/4	784	1/4	1,802	1/4	2,820	1/4	3,838	1/4	4,855	1/4		1/4		1/4		1/4		1/4	
1/2	806	1/2	1,823	1/2	2,841	1/2	3,859	1/2	4,877	1/2		1/2		1/2		1/2		1/2	
3/4	827	3/4	1,845	3/4	2,862	3/4	3,880	3/4	4,898	3/4		3/4		3/4		3/4		3/4	
10	848	10	1,866	10	2,884	10	3,901	10	4,919	10		10		10		10		10	
1/4	869	1/4	1,887	1/4	2,905	1/4	3,922	1/4	4,940	1/4		1/4		1/4		1/4		1/4	
1/2	891	1/2	1,908	1/2	2,926	1/2	3,944	1/2	4,961	1/2		1/2		1/2		1/2		1/2	
3/4	912	3/4	1,929	3/4	2,947	3/4	3,965	3/4	4,983	3/4		3/4		3/4		3/4		3/4	
11	933	11	1,951	11	2,968	11	3,986	11	5,004	11		11		11		11		11	
1/4	954	1/4	1,972	1/4	2,990	1/4	4,007	1/4	5,025	1/4		1/4		1/4		1/4		1/4	
1/2	975	1/2	1,993	1/2	3,011	1/2	4,028	1/2	5,046	1/2		1/2		1/2		1/2		1/2	
3/4	997	3/4	2,014	3/4	3,032	3/4	4,050	3/4	5,067	3/4		3/4		3/4		3/4		3/4	

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 INNAGE GAUGES.

STRAPPED: 12/01/2023 JS
CALCULATED: 12/01/2023 CL
PRINTED: 12/01/2023 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2023

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "HFL 408"

STBD SLOP INNAGE TABLE

CAPACITIES GIVEN IN WHOLE 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	1,016	0	2,032	0	3,048	0	4,063	0	5,079	0		0		0		0	
1/4	21	1/4	1,037	1/4	2,053	1/4	3,069	1/4	4,085	1/4		1/4		1/4		1/4		1/4	
1/2	42	1/2	1,058	1/2	2,074	1/2	3,090	1/2	4,106	1/2		1/2		1/2		1/2		1/2	
3/4	63	3/4	1,079	3/4	2,095	3/4	3,111	3/4	4,127	3/4		3/4		3/4		3/4		3/4	
1	85	1	1,101	1	2,116	1	3,132	1	4,148	1		1		1		1		1	
1/4	106	1/4	1,122	1/4	2,138	1/4	3,153	1/4	4,169	1/4		1/4		1/4		1/4		1/4	
1/2	127	1/2	1,143	1/2	2,159	1/2	3,175	1/2	4,190	1/2		1/2		1/2		1/2		1/2	
3/4	148	3/4	1,164	3/4	2,180	3/4	3,196	3/4	4,212	3/4		3/4		3/4		3/4		3/4	
2	169	2	1,185	2	2,201	2	3,217	2	4,233	2		2		2		2		2	
1/4	190	1/4	1,206	1/4	2,222	1/4	3,238	1/4	4,254	1/4		1/4		1/4		1/4		1/4	
1/2	212	1/2	1,227	1/2	2,243	1/2	3,259	1/2	4,275	1/2		1/2		1/2		1/2		1/2	
3/4	233	3/4	1,249	3/4	2,265	3/4	3,280	3/4	4,296	3/4		3/4		3/4		3/4		3/4	
3	254	3	1,270	3	2,286	3	3,302	3	4,317	3		3		3		3		3	
1/4	275	1/4	1,291	1/4	2,307	1/4	3,323	1/4	4,339	1/4		1/4		1/4		1/4		1/4	
1/2	296	1/2	1,312	1/2	2,328	1/2	3,344	1/2	4,360	1/2		1/2		1/2		1/2		1/2	
3/4	317	3/4	1,333	3/4	2,349	3/4	3,365	3/4	4,381	3/4		3/4		3/4		3/4		3/4	
4	339	4	1,354	4	2,370	4	3,386	4	4,402	4		4		4		4		4	
1/4	360	1/4	1,376	1/4	2,391	1/4	3,407	1/4	4,423	1/4		1/4		1/4		1/4		1/4	
1/2	381	1/2	1,397	1/2	2,413	1/2	3,429	1/2	4,444	1/2		1/2		1/2		1/2		1/2	
3/4	402	3/4	1,418	3/4	2,434	3/4	3,450	3/4	4,466	3/4		3/4		3/4		3/4		3/4	
5	423	5	1,439	5	2,455	5	3,471	5	4,487	5		5		5		5		5	
1/4	444	1/4	1,460	1/4	2,476	1/4	3,492	1/4	4,508	1/4		1/4		1/4		1/4		1/4	
1/2	466	1/2	1,481	1/2	2,497	1/2	3,513	1/2	4,529	1/2		1/2		1/2		1/2		1/2	
3/4	487	3/4	1,503	3/4	2,518	3/4	3,534	3/4	4,550	3/4		3/4		3/4		3/4		3/4	
6	508	6	1,524	6	2,540	6	3,556	6	4,571	6		6		6		6		6	
1/4	529	1/4	1,545	1/4	2,561	1/4	3,577	1/4	4,593	1/4		1/4		1/4		1/4		1/4	
1/2	550	1/2	1,566	1/2	2,582	1/2	3,598	1/2	4,614	1/2		1/2		1/2		1/2		1/2	
3/4	571	3/4	1,587	3/4	2,603	3/4	3,619	3/4	4,635	3/4		3/4		3/4		3/4		3/4	
7	593	7	1,608	7	2,624	7	3,640	7	4,656	7		7		7		7		7	
1/4	614	1/4	1,630	1/4	2,645	1/4	3,661	1/4	4,677	1/4		1/4		1/4		1/4		1/4	
1/2	635	1/2	1,651	1/2	2,667	1/2	3,682	1/2	4,698	1/2		1/2		1/2		1/2		1/2	
3/4	656	3/4	1,672	3/4	2,688	3/4	3,704	3/4	4,720	3/4		3/4		3/4		3/4		3/4	
8	677	8	1,693	8	2,709	8	3,725	8	4,741	8		8		8		8		8	
1/4	698	1/4	1,714	1/4	2,730	1/4	3,746	1/4	4,762	1/4		1/4		1/4		1/4		1/4	
1/2	720	1/2	1,735	1/2	2,751	1/2	3,767	1/2	4,783	1/2		1/2		1/2		1/2		1/2	
3/4	741	3/4	1,757	3/4	2,772	3/4	3,788	3/4	4,804	3/4		3/4		3/4		3/4		3/4	
9	762	9	1,778	9	2,794	9	3,809	9	4,825	9		9		9		9		9	
1/4	783	1/4	1,799	1/4	2,815	1/4	3,831	1/4	4,846	1/4		1/4		1/4		1/4		1/4	
1/2	804	1/2	1,820	1/2	2,836	1/2	3,852	1/2	4,868	1/2		1/2		1/2		1/2		1/2	
3/4	825	3/4	1,841	3/4	2,857	3/4	3,873	3/4	4,889	3/4		3/4		3/4		3/4		3/4	
10	847	10	1,862	10	2,878	10	3,894	10	4,910	10		10		10		10		10	
1/4	868	1/4	1,884	1/4	2,899	1/4	3,915	1/4	4,931	1/4		1/4		1/4		1/4		1/4	
1/2	889	1/2	1,905	1/2	2,921	1/2	3,936	1/2	4,952	1/2		1/2		1/2		1/2		1/2	
3/4	910	3/4	1,926	3/4	2,942	3/4	3,958	3/4	4,973	3/4		3/4		3/4		3/4		3/4	
11	931	11	1,947	11	2,963	11	3,979	11	4,995	11		11		11		11		11	
1/4	952	1/4	1,968	1/4	2,984	1/4	4,000	1/4	5,016	1/4		1/4		1/4		1/4		1/4	
1/2	974	1/2	1,989	1/2	3,005	1/2	4,021	1/2	5,037	1/2		1/2		1/2		1/2		1/2	
3/4	995	3/4	2,011	3/4	3,026	3/4	4,042	3/4	5,058	3/4		3/4		3/4		3/4		3/4	

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 INNAGE GAUGES.

STRAPPED: 12/01/2023 JS
CALCULATED: 12/01/2023 CL
PRINTED: 12/01/2023 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2023

PRECISION MEASUREMENT
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