



BARGE "HFL 407"

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	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
1 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
2 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
2 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
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 3'-00" TRIM DOWN BY STERN FOR 1 PORT IS - 00-1/8"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED INNAGE IS 3'-11 7/8"

LENGTH BETWEEN DRAFT MARKS: 238'-00"

December 13, 2012

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HFL 407"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0		0		0	5,068.52	0	4,727.21	0	4,368.69	0	4,010.17	0	3,651.64	0	3,293.12	0	2,934.59		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,063.55	1/4	4,719.74	1/4	4,361.22	1/4	4,002.70	1/4	3,644.17	1/4	3,285.65	1/4	2,927.12		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,058.57	1/2	4,712.27	1/2	4,353.75	1/2	3,995.23	1/2	3,636.70	1/2	3,278.18	1/2	2,919.65		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,053.60	3/4	4,704.80	3/4	4,346.28	3/4	3,987.76	3/4	3,629.23	3/4	3,270.71	3/4	2,912.18		
1	1	1	1	1	1	1	5,048.62	1	4,697.33	1	4,338.81	1	3,980.29	1	3,621.76	1	3,263.24	1	2,904.71		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,042.54	1/4	4,689.86	1/4	4,331.34	1/4	3,972.82	1/4	3,614.29	1/4	3,255.77	1/4	2,897.24		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,036.46	1/2	4,682.39	1/2	4,323.87	1/2	3,965.34	1/2	3,606.82	1/2	3,248.30	1/2	2,889.77		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,030.39	3/4	4,674.92	3/4	4,316.40	3/4	3,957.87	3/4	3,599.35	3/4	3,240.83	3/4	2,882.30		
2	2	2	2	2	2	2	5,024.31	2	4,667.45	2	4,308.93	2	3,950.40	2	3,591.88	2	3,233.36	2	2,874.83		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,017.26	1/4	4,659.98	1/4	4,301.46	1/4	3,942.93	1/4	3,584.41	1/4	3,225.89	1/4	2,867.36		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,010.20	1/2	4,652.51	1/2	4,293.99	1/2	3,935.46	1/2	3,576.94	1/2	3,218.42	1/2	2,859.89		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,003.15	3/4	4,645.04	3/4	4,286.52	3/4	3,927.99	3/4	3,569.47	3/4	3,210.95	3/4	2,852.42		
3	3	3	3	3	3	3	4,996.10	3	4,637.57	3	4,279.05	3	3,920.52	3	3,562.00	3	3,203.48	3	2,844.95		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,988.63	1/4	4,630.10	1/4	4,271.58	1/4	3,913.05	1/4	3,554.53	1/4	3,196.01	1/4	2,837.48		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,981.17	1/2	4,622.63	1/2	4,264.11	1/2	3,905.58	1/2	3,547.06	1/2	3,188.54	1/2	2,830.01		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,973.70	3/4	4,615.16	3/4	4,256.64	3/4	3,898.11	3/4	3,539.59	3/4	3,181.07	3/4	2,822.54		
4	4	4	4	4	4	4	4,966.24	4	4,607.69	4	4,249.17	4	3,890.64	4	3,532.12	4	3,173.60	4	2,815.07		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,958.77	1/4	4,600.23	1/4	4,241.70	1/4	3,883.18	1/4	3,524.65	1/4	3,166.13	1/4	2,807.60		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,951.30	1/2	4,592.76	1/2	4,234.24	1/2	3,875.71	1/2	3,517.19	1/2	3,158.67	1/2	2,800.13		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,943.83	3/4	4,585.30	3/4	4,226.77	3/4	3,868.25	3/4	3,509.73	3/4	3,151.20	3/4	2,792.66		
5	5	5	5	5	5	5	4,936.36	5	4,577.83	5	4,219.31	5	3,860.78	5	3,502.26	5	3,143.74	5	2,785.19		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,928.89	1/4	4,570.36	1/4	4,211.84	1/4	3,853.31	1/4	3,494.79	1/4	3,136.27	1/4	2,777.73		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,921.42	1/2	4,562.89	1/2	4,204.37	1/2	3,845.84	1/2	3,487.32	1/2	3,128.80	1/2	2,770.26		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,913.95	3/4	4,555.42	3/4	4,196.90	3/4	3,838.37	3/4	3,479.85	3/4	3,121.33	3/4	2,762.80		
6	6	6	6	6	6	6	4,906.48	6	4,547.95	6	4,189.43	6	3,830.90	6	3,472.38	6	3,113.86	6	2,755.33		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,899.01	1/4	4,540.48	1/4	4,181.96	1/4	3,823.43	1/4	3,464.91	1/4	3,106.39	1/4	2,747.86		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,891.54	1/2	4,533.01	1/2	4,174.49	1/2	3,815.96	1/2	3,457.44	1/2	3,098.92	1/2	2,740.39		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,884.07	3/4	4,525.54	3/4	4,167.02	3/4	3,808.49	3/4	3,449.97	3/4	3,091.45	3/4	2,732.92		
7	7	7	7	7	7	7	4,876.59	7	4,518.07	7	4,159.55	7	3,801.02	7	3,442.50	7	3,083.98	7	2,725.45		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,869.12	1/4	4,510.60	1/4	4,152.08	1/4	3,793.55	1/4	3,435.03	1/4	3,076.51	1/4	2,717.98		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,861.65	1/2	4,503.13	1/2	4,144.61	1/2	3,786.08	1/2	3,427.56	1/2	3,069.04	1/2	2,710.51		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,854.18	3/4	4,495.66	3/4	4,137.14	3/4	3,778.61	3/4	3,420.09	3/4	3,061.57	3/4	2,703.04		
8	8	8	8	8	5,104.29	8	4,846.71	8	4,488.19	8	4,129.67	8	3,771.14	8	3,412.62	8	3,054.09	8	2,695.57		
1/4	1/4	1/4	1/4	1/4	5,103.63	1/4	4,839.24	1/4	4,480.72	1/4	4,122.20	1/4	3,763.67	1/4	3,405.15	1/4	3,046.62	1/4	2,688.10		
1/2	1/2	1/2	1/2	1/2	5,102.98	1/2	4,831.77	1/2	4,473.25	1/2	4,114.73	1/2	3,756.20	1/2	3,397.68	1/2	3,039.15	1/2	2,680.63		
3/4	3/4	3/4	3/4	3/4	5,102.32	3/4	4,824.30	3/4	4,465.78	3/4	4,107.26	3/4	3,748.73	3/4	3,390.21	3/4	3,031.68	3/4	2,673.16		
9	9	9	9	9	5,101.67	9	4,816.83	9	4,458.31	9	4,099.79	9	3,741.26	9	3,382.74	9	3,024.21	9	2,665.69		
1/4	1/4	1/4	1/4	1/4	5,100.01	1/4	4,809.37	1/4	4,450.84	1/4	4,092.32	1/4	3,733.79	1/4	3,375.27	1/4	3,016.74	1/4	2,658.22		
1/2	1/2	1/2	1/2	1/2	5,098.36	1/2	4,801.90	1/2	4,443.37	1/2	4,084.85	1/2	3,726.32	1/2	3,367.80	1/2	3,009.27	1/2	2,650.75		
3/4	3/4	3/4	3/4	3/4	5,096.70	3/4	4,794.44	3/4	4,435.90	3/4	4,077.38	3/4	3,718.85	3/4	3,360.33	3/4	3,001.80	3/4	2,643.28		
10	10	10	10	10	5,095.05	10	4,786.98	10	4,428.43	10	4,069.90	10	3,711.38	10	3,352.86	10	2,994.33	10	2,635.81		
1/4	1/4	1/4	1/4	1/4	5,092.29	1/4	4,779.51	1/4	4,420.96	1/4	4,062.44	1/4	3,703.92	1/4	3,345.39	1/4	2,986.87	1/4	2,628.34		
1/2	1/2	1/2	1/2	1/2	5,089.52	1/2	4,772.03	1/2	4,413.50	1/2	4,054.98	1/2	3,696.45	1/2	3,337.93	1/2	2,979.40	1/2	2,620.87		
3/4	3/4	3/4	3/4	3/4	5,086.76	3/4	4,764.56	3/4	4,406.04	3/4	4,047.51	3/4	3,688.99	3/4	3,330.46	3/4	2,971.94	3/4	2,613.40		
11	11	11	11	11	5,084.00	11	4,757.09	11	4,398.57	11	4,040.05	11	3,681.52	11	3,323.00	11	2,964.48	11	2,605.93		
1/4	1/4	1/4	1/4	1/4	5,080.13	1/4	4,749.62	1/4	4,391.10	1/4	4,032.58	1/4	3,674.05	1/4	3,315.53	1/4	2,957.01	1/4	2,598.46		
1/2	1/2	1/2	1/2	1/2	5,076.26	1/2	4,742.15	1/2	4,383.63	1/2	4,025.11	1/2	3,666.58	1/2	3,308.06	1/2	2,949.53	1/2	2,591.00		
3/4	3/4	3/4	3/4	3/4	5,072.39	3/4	4,734.68	3/4	4,376.16	3/4	4,017.64	3/4	3,659.11	3/4	3,300.59	3/4	2,942.06	3/4	2,583.54		

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 WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "HFL 407"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,576.07	0	2,217.55	0	1,859.02	0	1,500.50	0	1,141.98	0	783.43	0	426.02	0	93.33	0		0	
1/4	2,568.60	1/4	2,210.08	1/4	1,851.55	1/4	1,493.04	1/4	1,134.50	1/4	775.96	1/4	418.74	1/4	86.79	1/4		1/4	
1/2	2,561.13	1/2	2,202.61	1/2	1,844.08	1/2	1,485.58	1/2	1,127.03	1/2	768.50	1/2	411.45	1/2	80.24	1/2		1/2	
3/4	2,553.66	3/4	2,195.14	3/4	1,836.61	3/4	1,478.13	3/4	1,119.56	3/4	761.04	3/4	404.17	3/4	73.69	3/4		3/4	
1	2,546.19	1	2,187.67	1	1,829.14	1	1,470.67	1	1,112.09	1	753.57	1	396.88	1	67.14	1		1	
1/4	2,538.72	1/4	2,180.20	1/4	1,821.67	1/4	1,463.18	1/4	1,104.62	1/4	746.10	1/4	389.70	1/4	60.79	1/4		1/4	
1/2	2,531.25	1/2	2,172.73	1/2	1,814.20	1/2	1,455.70	1/2	1,097.15	1/2	738.63	1/2	382.51	1/2	54.43	1/2		1/2	
3/4	2,523.78	3/4	2,165.26	3/4	1,806.73	3/4	1,448.22	3/4	1,089.68	3/4	731.16	3/4	375.33	3/4	48.07	3/4		3/4	
2	2,516.31	2	2,157.79	2	1,799.26	2	1,440.74	2	1,082.21	2	723.69	2	368.14	2	41.71	2		2	
1/4	2,508.84	1/4	2,150.31	1/4	1,791.79	1/4	1,433.27	1/4	1,074.74	1/4	716.22	1/4	360.98	1/4	36.66	1/4		1/4	
1/2	2,501.37	1/2	2,142.84	1/2	1,784.32	1/2	1,425.80	1/2	1,067.27	1/2	708.75	1/2	353.82	1/2	31.61	1/2		1/2	
3/4	2,493.90	3/4	2,135.37	3/4	1,776.85	3/4	1,418.33	3/4	1,059.80	3/4	701.28	3/4	346.66	3/4	26.55	3/4		3/4	
3	2,486.43	3	2,127.90	3	1,769.38	3	1,410.86	3	1,052.33	3	693.81	3	339.50	3	21.50	3		3	
1/4	2,478.96	1/4	2,120.43	1/4	1,761.91	1/4	1,403.39	1/4	1,044.86	1/4	686.34	1/4	332.43	1/4		1/4		1/4	
1/2	2,471.49	1/2	2,112.96	1/2	1,754.44	1/2	1,395.92	1/2	1,037.39	1/2	678.87	1/2	325.37	1/2		1/2		1/2	
3/4	2,464.02	3/4	2,105.49	3/4	1,746.97	3/4	1,388.45	3/4	1,029.92	3/4	671.40	3/4	318.30	3/4		3/4		3/4	
4	2,456.55	4	2,098.02	4	1,739.50	4	1,380.98	4	1,022.45	4	663.93	4	311.24	4		4		4	
1/4	2,449.08	1/4	2,090.55	1/4	1,732.03	1/4	1,373.51	1/4	1,014.98	1/4	656.46	1/4	304.20	1/4		1/4		1/4	
1/2	2,441.61	1/2	2,083.08	1/2	1,724.56	1/2	1,366.04	1/2	1,007.51	1/2	648.99	1/2	297.15	1/2		1/2		1/2	
3/4	2,434.14	3/4	2,075.61	3/4	1,717.09	3/4	1,358.57	3/4	1,000.04	3/4	641.52	3/4	290.11	3/4		3/4		3/4	
5	2,426.67	5	2,068.14	5	1,709.62	5	1,351.10	5	992.57	5	634.05	5	283.07	5		5		5	
1/4	2,419.20	1/4	2,060.68	1/4	1,702.15	1/4	1,343.63	1/4	985.10	1/4	626.58	1/4	276.13	1/4		1/4		1/4	
1/2	2,411.74	1/2	2,053.21	1/2	1,694.69	1/2	1,336.17	1/2	977.63	1/2	619.11	1/2	269.18	1/2		1/2		1/2	
3/4	2,404.27	3/4	2,045.75	3/4	1,687.23	3/4	1,328.70	3/4	970.16	3/4	611.64	3/4	262.23	3/4		3/4		3/4	
6	2,396.81	6	2,038.28	6	1,679.76	6	1,321.24	6	962.69	6	604.17	6	255.29	6		6		6	
1/4	2,389.34	1/4	2,030.81	1/4	1,672.29	1/4	1,313.77	1/4	955.23	1/4	596.70	1/4	248.37	1/4		1/4		1/4	
1/2	2,381.87	1/2	2,023.34	1/2	1,664.82	1/2	1,306.30	1/2	947.76	1/2	589.24	1/2	241.46	1/2		1/2		1/2	
3/4	2,374.40	3/4	2,015.87	3/4	1,657.35	3/4	1,298.83	3/4	940.30	3/4	581.77	3/4	234.55	3/4		3/4		3/4	
7	2,366.93	7	2,008.40	7	1,649.88	7	1,291.36	7	932.83	7	574.31	7	227.64	7		7		7	
1/4	2,359.46	1/4	2,000.93	1/4	1,642.41	1/4	1,283.89	1/4	925.36	1/4	566.84	1/4	220.82	1/4		1/4		1/4	
1/2	2,351.99	1/2	1,993.46	1/2	1,634.94	1/2	1,276.42	1/2	917.89	1/2	559.37	1/2	213.99	1/2		1/2		1/2	
3/4	2,344.52	3/4	1,985.99	3/4	1,627.47	3/4	1,268.95	3/4	910.42	3/4	551.90	3/4	207.16	3/4		3/4		3/4	
8	2,337.05	8	1,978.52	8	1,620.00	8	1,261.48	8	902.95	8	544.43	8	200.33	8		8		8	
1/4	2,329.58	1/4	1,971.05	1/4	1,612.53	1/4	1,254.01	1/4	895.48	1/4	536.96	1/4	193.54	1/4		1/4		1/4	
1/2	2,322.11	1/2	1,963.58	1/2	1,605.06	1/2	1,246.54	1/2	888.01	1/2	529.49	1/2	186.75	1/2		1/2		1/2	
3/4	2,314.64	3/4	1,956.11	3/4	1,597.59	3/4	1,239.06	3/4	880.54	3/4	522.02	3/4	179.96	3/4		3/4		3/4	
9	2,307.17	9	1,948.64	9	1,590.12	9	1,231.59	9	873.07	9	514.55	9	173.17	9		9		9	
1/4	2,299.70	1/4	1,941.17	1/4	1,582.65	1/4	1,224.12	1/4	865.60	1/4	507.12	1/4	166.46	1/4		1/4		1/4	
1/2	2,292.23	1/2	1,933.70	1/2	1,575.18	1/2	1,216.65	1/2	858.13	1/2	499.70	1/2	159.76	1/2		1/2		1/2	
3/4	2,284.76	3/4	1,926.23	3/4	1,567.71	3/4	1,209.18	3/4	850.66	3/4	492.28	3/4	153.06	3/4		3/4		3/4	
10	2,277.29	10	1,918.76	10	1,560.24	10	1,201.71	10	843.19	10	484.86	10	146.36	10		10		10	
1/4	2,269.82	1/4	1,911.29	1/4	1,552.77	1/4	1,194.24	1/4	835.72	1/4	477.46	1/4	139.68	1/4		1/4		1/4	
1/2	2,262.35	1/2	1,903.82	1/2	1,545.30	1/2	1,186.77	1/2	828.25	1/2	470.06	1/2	133.01	1/2		1/2		1/2	
3/4	2,254.87	3/4	1,896.35	3/4	1,537.83	3/4	1,179.30	3/4	820.78	3/4	462.66	3/4	126.34	3/4		3/4		3/4	
11	2,247.40	11	1,888.88	11	1,530.36	11	1,171.83	11	813.31	11	455.26	11	119.67	11		11		11	
1/4	2,239.94	1/4	1,881.42	1/4	1,522.89	1/4	1,164.37	1/4	805.84	1/4	447.95	1/4	113.08	1/4		1/4		1/4	
1/2	2,232.48	1/2	1,873.95	1/2	1,515.43	1/2	1,156.90	1/2	798.37	1/2	440.64	1/2	106.50	1/2		1/2		1/2	
3/4	2,225.01	3/4	1,866.49	3/4	1,507.96	3/4	1,149.44	3/4	790.90	3/4	433.33	3/4	99.92	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/10/2007 INSP.
DECK MEASUREMENTS: 12/13/2012 SW
PRINTED: 12/15/2012 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2012

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



BARGE "HFL 407"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0		0	5,068.52	0	4,727.21	0	4,368.69	0	4,010.17	0	3,651.64	0	3,293.12	0	2,934.59
1/4		1/4		1/4		1/4	5,063.55	1/4	4,719.74	1/4	4,361.22	1/4	4,002.70	1/4	3,644.17	1/4	3,285.65	1/4	2,927.12
1/2		1/2		1/2		1/2	5,058.57	1/2	4,712.27	1/2	4,353.75	1/2	3,995.23	1/2	3,636.70	1/2	3,278.18	1/2	2,919.65
3/4		3/4		3/4		3/4	5,053.60	3/4	4,704.80	3/4	4,346.28	3/4	3,987.76	3/4	3,629.23	3/4	3,270.71	3/4	2,912.18
1		1		1		1	5,048.62	1	4,697.33	1	4,338.81	1	3,980.29	1	3,621.76	1	3,263.24	1	2,904.71
1/4		1/4		1/4		1/4	5,042.54	1/4	4,689.86	1/4	4,331.34	1/4	3,972.82	1/4	3,614.29	1/4	3,255.77	1/4	2,897.24
1/2		1/2		1/2		1/2	5,036.46	1/2	4,682.39	1/2	4,323.87	1/2	3,965.34	1/2	3,606.82	1/2	3,248.30	1/2	2,889.77
3/4		3/4		3/4		3/4	5,030.39	3/4	4,674.92	3/4	4,316.40	3/4	3,957.87	3/4	3,599.35	3/4	3,240.83	3/4	2,882.30
2		2		2		2	5,024.31	2	4,667.45	2	4,308.93	2	3,950.40	2	3,591.88	2	3,233.36	2	2,874.83
1/4		1/4		1/4		1/4	5,017.26	1/4	4,659.98	1/4	4,301.46	1/4	3,942.93	1/4	3,584.41	1/4	3,225.89	1/4	2,867.36
1/2		1/2		1/2		1/2	5,010.20	1/2	4,652.51	1/2	4,293.99	1/2	3,935.46	1/2	3,576.94	1/2	3,218.42	1/2	2,859.89
3/4		3/4		3/4		3/4	5,003.15	3/4	4,645.04	3/4	4,286.52	3/4	3,927.99	3/4	3,569.47	3/4	3,210.95	3/4	2,852.42
3		3		3		3	4,996.10	3	4,637.57	3	4,279.05	3	3,920.52	3	3,562.00	3	3,203.48	3	2,844.95
1/4		1/4		1/4		1/4	4,988.63	1/4	4,630.10	1/4	4,271.58	1/4	3,913.05	1/4	3,554.53	1/4	3,196.01	1/4	2,837.48
1/2		1/2		1/2		1/2	4,981.17	1/2	4,622.63	1/2	4,264.11	1/2	3,905.58	1/2	3,547.06	1/2	3,188.54	1/2	2,830.01
3/4		3/4		3/4		3/4	4,973.70	3/4	4,615.16	3/4	4,256.64	3/4	3,898.11	3/4	3,539.59	3/4	3,181.07	3/4	2,822.54
4		4		4		4	4,966.24	4	4,607.69	4	4,249.17	4	3,890.64	4	3,532.12	4	3,173.60	4	2,815.07
1/4		1/4		1/4		1/4	4,958.77	1/4	4,600.23	1/4	4,241.70	1/4	3,883.18	1/4	3,524.65	1/4	3,166.13	1/4	2,807.60
1/2		1/2		1/2		1/2	4,951.30	1/2	4,592.76	1/2	4,234.24	1/2	3,875.71	1/2	3,517.19	1/2	3,158.67	1/2	2,800.13
3/4		3/4		3/4		3/4	4,943.83	3/4	4,585.30	3/4	4,226.77	3/4	3,868.25	3/4	3,509.73	3/4	3,151.20	3/4	2,792.66
5		5		5		5	4,936.36	5	4,577.83	5	4,219.31	5	3,860.78	5	3,502.26	5	3,143.74	5	2,785.19
1/4		1/4		1/4		1/4	4,928.89	1/4	4,570.36	1/4	4,211.84	1/4	3,853.31	1/4	3,494.79	1/4	3,136.27	1/4	2,777.73
1/2		1/2		1/2		1/2	4,921.42	1/2	4,562.89	1/2	4,204.37	1/2	3,845.84	1/2	3,487.32	1/2	3,128.80	1/2	2,770.26
3/4		3/4		3/4		3/4	4,913.95	3/4	4,555.42	3/4	4,196.90	3/4	3,838.37	3/4	3,479.85	3/4	3,121.33	3/4	2,762.80
6		6		6		6	4,906.48	6	4,547.95	6	4,189.43	6	3,830.90	6	3,472.38	6	3,113.86	6	2,755.33
1/4		1/4		1/4		1/4	4,899.01	1/4	4,540.48	1/4	4,181.96	1/4	3,823.43	1/4	3,464.91	1/4	3,106.39	1/4	2,747.86
1/2		1/2		1/2		1/2	4,891.54	1/2	4,533.01	1/2	4,174.49	1/2	3,815.96	1/2	3,457.44	1/2	3,098.92	1/2	2,740.39
3/4		3/4		3/4		3/4	4,884.07	3/4	4,525.54	3/4	4,167.02	3/4	3,808.49	3/4	3,449.97	3/4	3,091.45	3/4	2,732.92
7		7		7		7	4,876.59	7	4,518.07	7	4,159.55	7	3,801.02	7	3,442.50	7	3,083.98	7	2,725.45
1/4		1/4		1/4		1/4	4,869.12	1/4	4,510.60	1/4	4,152.08	1/4	3,793.55	1/4	3,435.03	1/4	3,076.51	1/4	2,717.98
1/2		1/2		1/2		1/2	4,861.65	1/2	4,503.13	1/2	4,144.61	1/2	3,786.08	1/2	3,427.56	1/2	3,069.04	1/2	2,710.51
3/4		3/4		3/4		3/4	4,854.18	3/4	4,495.66	3/4	4,137.14	3/4	3,778.61	3/4	3,420.09	3/4	3,061.57	3/4	2,703.04
8		8		8	5,104.29	8	4,846.71	8	4,488.19	8	4,129.67	8	3,771.14	8	3,412.62	8	3,054.09	8	2,695.57
1/4		1/4		1/4	5,103.63	1/4	4,839.24	1/4	4,480.72	1/4	4,122.20	1/4	3,763.67	1/4	3,405.15	1/4	3,046.62	1/4	2,688.10
1/2		1/2		1/2	5,102.98	1/2	4,831.77	1/2	4,473.25	1/2	4,114.73	1/2	3,756.20	1/2	3,397.68	1/2	3,039.15	1/2	2,680.63
3/4		3/4		3/4	5,102.32	3/4	4,824.30	3/4	4,465.78	3/4	4,107.26	3/4	3,748.73	3/4	3,390.21	3/4	3,031.68	3/4	2,673.16
9		9		9	5,101.67	9	4,816.83	9	4,458.31	9	4,099.79	9	3,741.26	9	3,382.74	9	3,024.21	9	2,665.69
1/4		1/4		1/4	5,100.01	1/4	4,809.37	1/4	4,450.84	1/4	4,092.32	1/4	3,733.79	1/4	3,375.27	1/4	3,016.74	1/4	2,658.22
1/2		1/2		1/2	5,098.36	1/2	4,801.90	1/2	4,443.37	1/2	4,084.85	1/2	3,726.32	1/2	3,367.80	1/2	3,009.27	1/2	2,650.75
3/4		3/4		3/4	5,096.70	3/4	4,794.44	3/4	4,435.90	3/4	4,077.38	3/4	3,718.85	3/4	3,360.33	3/4	3,001.80	3/4	2,643.28
10		10		10	5,095.05	10	4,786.98	10	4,428.43	10	4,069.90	10	3,711.38	10	3,352.86	10	2,994.33	10	2,635.81
1/4		1/4		1/4	5,092.29	1/4	4,779.51	1/4	4,420.96	1/4	4,062.44	1/4	3,703.92	1/4	3,345.39	1/4	2,986.87	1/4	2,628.34
1/2		1/2		1/2	5,089.52	1/2	4,772.03	1/2	4,413.50	1/2	4,054.98	1/2	3,696.45	1/2	3,337.93	1/2	2,979.40	1/2	2,620.87
3/4		3/4		3/4	5,086.76	3/4	4,764.56	3/4	4,406.04	3/4	4,047.51	3/4	3,688.99	3/4	3,330.46	3/4	2,971.94	3/4	2,613.40
11		11		11	5,084.00	11	4,757.09	11	4,398.57	11	4,040.05	11	3,681.52	11	3,323.00	11	2,964.48	11	2,605.93
1/4		1/4		1/4	5,080.13	1/4	4,749.62	1/4	4,391.10	1/4	4,032.58	1/4	3,674.05	1/4	3,315.53	1/4	2,957.01	1/4	2,598.46
1/2		1/2		1/2	5,076.26	1/2	4,742.15	1/2	4,383.63	1/2	4,025.11	1/2	3,666.58	1/2	3,308.06	1/2	2,949.53	1/2	2,591.00
3/4		3/4		3/4	5,072.39	3/4	4,734.68	3/4	4,376.16	3/4	4,017.64	3/4	3,659.11	3/4	3,300.59	3/4	2,942.06	3/4	2,583.54

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 WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-06" FORWARD OF AFT BULKHEAD.

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



BARGE "HFL 407"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,576.07	0	2,217.55	0	1,859.02	0	1,500.50	0	1,141.98	0	783.43	0	426.02	0	93.33	0		0	
1/4	2,568.60	1/4	2,210.08	1/4	1,851.55	1/4	1,493.04	1/4	1,134.50	1/4	775.96	1/4	418.74	1/4	86.79	1/4		1/4	
1/2	2,561.13	1/2	2,202.61	1/2	1,844.08	1/2	1,485.58	1/2	1,127.03	1/2	768.50	1/2	411.45	1/2	80.24	1/2		1/2	
3/4	2,553.66	3/4	2,195.14	3/4	1,836.61	3/4	1,478.13	3/4	1,119.56	3/4	761.04	3/4	404.17	3/4	73.69	3/4		3/4	
1	2,546.19	1	2,187.67	1	1,829.14	1	1,470.67	1	1,112.09	1	753.57	1	396.88	1	67.14	1		1	
1/4	2,538.72	1/4	2,180.20	1/4	1,821.67	1/4	1,463.18	1/4	1,104.62	1/4	746.10	1/4	389.70	1/4	60.79	1/4		1/4	
1/2	2,531.25	1/2	2,172.73	1/2	1,814.20	1/2	1,455.70	1/2	1,097.15	1/2	738.63	1/2	382.51	1/2	54.43	1/2		1/2	
3/4	2,523.78	3/4	2,165.26	3/4	1,806.73	3/4	1,448.22	3/4	1,089.68	3/4	731.16	3/4	375.33	3/4	48.07	3/4		3/4	
2	2,516.31	2	2,157.79	2	1,799.26	2	1,440.74	2	1,082.21	2	723.69	2	368.14	2	41.71	2		2	
1/4	2,508.84	1/4	2,150.31	1/4	1,791.79	1/4	1,433.27	1/4	1,074.74	1/4	716.22	1/4	360.98	1/4	36.66	1/4		1/4	
1/2	2,501.37	1/2	2,142.84	1/2	1,784.32	1/2	1,425.80	1/2	1,067.27	1/2	708.75	1/2	353.82	1/2	31.61	1/2		1/2	
3/4	2,493.90	3/4	2,135.37	3/4	1,776.85	3/4	1,418.33	3/4	1,059.80	3/4	701.28	3/4	346.66	3/4	26.55	3/4		3/4	
3	2,486.43	3	2,127.90	3	1,769.38	3	1,410.86	3	1,052.33	3	693.81	3	339.50	3	21.50	3		3	
1/4	2,478.96	1/4	2,120.43	1/4	1,761.91	1/4	1,403.39	1/4	1,044.86	1/4	686.34	1/4	332.43	1/4		1/4		1/4	
1/2	2,471.49	1/2	2,112.96	1/2	1,754.44	1/2	1,395.92	1/2	1,037.39	1/2	678.87	1/2	325.37	1/2		1/2		1/2	
3/4	2,464.02	3/4	2,105.49	3/4	1,746.97	3/4	1,388.45	3/4	1,029.92	3/4	671.40	3/4	318.30	3/4		3/4		3/4	
4	2,456.55	4	2,098.02	4	1,739.50	4	1,380.98	4	1,022.45	4	663.93	4	311.24	4		4		4	
1/4	2,449.08	1/4	2,090.55	1/4	1,732.03	1/4	1,373.51	1/4	1,014.98	1/4	656.46	1/4	304.20	1/4		1/4		1/4	
1/2	2,441.61	1/2	2,083.08	1/2	1,724.56	1/2	1,366.04	1/2	1,007.51	1/2	648.99	1/2	297.15	1/2		1/2		1/2	
3/4	2,434.14	3/4	2,075.61	3/4	1,717.09	3/4	1,358.57	3/4	1,000.04	3/4	641.52	3/4	290.11	3/4		3/4		3/4	
5	2,426.67	5	2,068.14	5	1,709.62	5	1,351.10	5	992.57	5	634.05	5	283.07	5		5		5	
1/4	2,419.20	1/4	2,060.68	1/4	1,702.15	1/4	1,343.63	1/4	985.10	1/4	626.58	1/4	276.13	1/4		1/4		1/4	
1/2	2,411.74	1/2	2,053.21	1/2	1,694.69	1/2	1,336.17	1/2	977.63	1/2	619.11	1/2	269.18	1/2		1/2		1/2	
3/4	2,404.27	3/4	2,045.75	3/4	1,687.23	3/4	1,328.70	3/4	970.16	3/4	611.64	3/4	262.23	3/4		3/4		3/4	
6	2,396.81	6	2,038.28	6	1,679.76	6	1,321.24	6	962.69	6	604.17	6	255.29	6		6		6	
1/4	2,389.34	1/4	2,030.81	1/4	1,672.29	1/4	1,313.77	1/4	955.23	1/4	596.70	1/4	248.37	1/4		1/4		1/4	
1/2	2,381.87	1/2	2,023.34	1/2	1,664.82	1/2	1,306.30	1/2	947.76	1/2	589.24	1/2	241.46	1/2		1/2		1/2	
3/4	2,374.40	3/4	2,015.87	3/4	1,657.35	3/4	1,298.83	3/4	940.30	3/4	581.77	3/4	234.55	3/4		3/4		3/4	
7	2,366.93	7	2,008.40	7	1,649.88	7	1,291.36	7	932.83	7	574.31	7	227.64	7		7		7	
1/4	2,359.46	1/4	2,000.93	1/4	1,642.41	1/4	1,283.89	1/4	925.36	1/4	566.84	1/4	220.82	1/4		1/4		1/4	
1/2	2,351.99	1/2	1,993.46	1/2	1,634.94	1/2	1,276.42	1/2	917.89	1/2	559.37	1/2	213.99	1/2		1/2		1/2	
3/4	2,344.52	3/4	1,985.99	3/4	1,627.47	3/4	1,268.95	3/4	910.42	3/4	551.90	3/4	207.16	3/4		3/4		3/4	
8	2,337.05	8	1,978.52	8	1,620.00	8	1,261.48	8	902.95	8	544.43	8	200.33	8		8		8	
1/4	2,329.58	1/4	1,971.05	1/4	1,612.53	1/4	1,254.01	1/4	895.48	1/4	536.96	1/4	193.54	1/4		1/4		1/4	
1/2	2,322.11	1/2	1,963.58	1/2	1,605.06	1/2	1,246.54	1/2	888.01	1/2	529.49	1/2	186.75	1/2		1/2		1/2	
3/4	2,314.64	3/4	1,956.11	3/4	1,597.59	3/4	1,239.06	3/4	880.54	3/4	522.02	3/4	179.96	3/4		3/4		3/4	
9	2,307.17	9	1,948.64	9	1,590.12	9	1,231.59	9	873.07	9	514.55	9	173.17	9		9		9	
1/4	2,299.70	1/4	1,941.17	1/4	1,582.65	1/4	1,224.12	1/4	865.60	1/4	507.12	1/4	166.46	1/4		1/4		1/4	
1/2	2,292.23	1/2	1,933.70	1/2	1,575.18	1/2	1,216.65	1/2	858.13	1/2	499.70	1/2	159.76	1/2		1/2		1/2	
3/4	2,284.76	3/4	1,926.23	3/4	1,567.71	3/4	1,209.18	3/4	850.66	3/4	492.28	3/4	153.06	3/4		3/4		3/4	
10	2,277.29	10	1,918.76	10	1,560.24	10	1,201.71	10	843.19	10	484.86	10	146.36	10		10		10	
1/4	2,269.82	1/4	1,911.29	1/4	1,552.77	1/4	1,194.24	1/4	835.72	1/4	477.46	1/4	139.68	1/4		1/4		1/4	
1/2	2,262.35	1/2	1,903.82	1/2	1,545.30	1/2	1,186.77	1/2	828.25	1/2	470.06	1/2	133.01	1/2		1/2		1/2	
3/4	2,254.87	3/4	1,896.35	3/4	1,537.83	3/4	1,179.30	3/4	820.78	3/4	462.66	3/4	126.34	3/4		3/4		3/4	
11	2,247.40	11	1,888.88	11	1,530.36	11	1,171.83	11	813.31	11	455.26	11	119.67	11		11		11	
1/4	2,239.94	1/4	1,881.42	1/4	1,522.89	1/4	1,164.37	1/4	805.84	1/4	447.95	1/4	113.08	1/4		1/4		1/4	
1/2	2,232.48	1/2	1,873.95	1/2	1,515.43	1/2	1,156.90	1/2	798.37	1/2	440.64	1/2	106.50	1/2		1/2		1/2	
3/4	2,225.01	3/4	1,866.49	3/4	1,507.96	3/4	1,149.44	3/4	790.90	3/4	433.33	3/4	99.92	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/10/2007 INSP.
DECK MEASUREMENTS: 12/13/2012 SW
PRINTED: 12/15/2012 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2012

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



BARGE "HFL 407"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT		
0		0		0		0	5,117.81	0	4,781.60	0	4,422.92	0	4,063.70	0	3,704.46	0	3,345.24	0	2,986.03		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,113.93	1/4	4,774.17	1/4	4,415.43	1/4	4,056.21	1/4	3,696.98	1/4	3,337.76	1/4	2,978.55		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,108.95	1/2	4,766.74	1/2	4,407.95	1/2	4,048.73	1/2	3,689.49	1/2	3,330.28	1/2	2,971.06		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,103.96	3/4	4,759.31	3/4	4,400.46	3/4	4,041.25	3/4	3,682.01	3/4	3,322.80	3/4	2,963.57		
1		1		1		1	5,098.98	1	4,751.88	1	4,393.98	1	4,033.77	1	3,674.53	1	3,315.32	1	2,956.08		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,094.00	1/4	4,744.45	1/4	4,385.50	1/4	4,026.29	1/4	3,667.05	1/4	3,307.83	1/4	2,948.59		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,087.92	1/2	4,737.02	1/2	4,378.02	1/2	4,018.80	1/2	3,659.57	1/2	3,300.35	1/2	2,941.11		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,081.83	3/4	4,729.60	3/4	4,370.54	3/4	4,011.31	3/4	3,652.08	3/4	3,292.86	3/4	2,933.63		
2		2		2		2	5,075.75	2	4,722.17	2	4,363.05	2	4,003.82	2	3,644.60	2	3,285.37	2	2,926.15		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,069.67	1/4	4,714.74	1/4	4,355.57	1/4	3,996.33	1/4	3,637.12	1/4	3,277.88	1/4	2,918.67		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,062.65	1/2	4,707.27	1/2	4,348.09	1/2	3,988.85	1/2	3,629.64	1/2	3,270.40	1/2	2,911.18		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,055.64	3/4	4,699.80	3/4	4,340.61	3/4	3,981.37	3/4	3,622.15	3/4	3,262.92	3/4	2,903.70		
3		3		3		3	5,048.63	3	4,692.33	3	4,333.13	3	3,973.89	3	3,614.67	3	3,255.43	3	2,896.22		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,041.62	1/4	4,684.86	1/4	4,325.64	1/4	3,966.40	1/4	3,607.19	1/4	3,247.95	1/4	2,888.74		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,034.19	1/2	4,677.37	1/2	4,318.15	1/2	3,958.92	1/2	3,599.70	1/2	3,240.47	1/2	2,881.25		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,026.76	3/4	4,669.89	3/4	4,310.67	3/4	3,951.44	3/4	3,592.21	3/4	3,232.99	3/4	2,873.76		
4		4		4		4	5,019.33	4	4,662.41	4	4,303.18	4	3,943.96	4	3,584.73	4	3,225.51	4	2,866.27		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,011.91	1/4	4,654.93	1/4	4,295.69	1/4	3,936.48	1/4	3,577.24	1/4	3,218.02	1/4	2,858.79		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,004.48	1/2	4,647.44	1/2	4,288.21	1/2	3,928.99	1/2	3,569.76	1/2	3,210.54	1/2	2,851.30		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,997.05	3/4	4,639.95	3/4	4,280.73	3/4	3,921.50	3/4	3,562.27	3/4	3,203.06	3/4	2,843.82		
5		5		5		5	4,989.62	5	4,632.46	5	4,273.24	5	3,914.01	5	3,554.79	5	3,195.58	5	2,836.34		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,982.19	1/4	4,624.98	1/4	4,265.76	1/4	3,906.52	1/4	3,547.31	1/4	3,188.10	1/4	2,828.86		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,974.76	1/2	4,617.49	1/2	4,258.28	1/2	3,899.04	1/2	3,539.83	1/2	3,180.61	1/2	2,821.37		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,967.32	3/4	4,610.01	3/4	4,250.80	3/4	3,891.56	3/4	3,532.35	3/4	3,173.12	3/4	2,813.89		
6		6		6		6	4,959.89	6	4,602.53	6	4,243.32	6	3,884.08	6	3,524.86	6	3,165.63	6	2,806.41		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,952.45	1/4	4,595.05	1/4	4,235.83	1/4	3,876.59	1/4	3,517.38	1/4	3,158.14	1/4	2,798.93		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,945.02	1/2	4,587.57	1/2	4,228.35	1/2	3,869.11	1/2	3,509.89	1/2	3,150.66	1/2	2,791.45		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,937.60	3/4	4,580.08	3/4	4,220.86	3/4	3,861.63	3/4	3,502.40	3/4	3,143.18	3/4	2,783.96		
7		7		7		7	4,930.17	7	4,572.60	7	4,213.37	7	3,854.15	7	3,494.92	7	3,135.70	7	2,776.48		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,922.74	1/4	4,565.12	1/4	4,205.88	1/4	3,846.67	1/4	3,487.43	1/4	3,128.21	1/4	2,769.00		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,915.31	1/2	4,557.64	1/2	4,198.40	1/2	3,839.18	1/2	3,479.95	1/2	3,120.73	1/2	2,761.51		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,907.88	3/4	4,550.15	3/4	4,190.92	3/4	3,831.70	3/4	3,472.46	3/4	3,113.25	3/4	2,754.02		
8		8		8		8	4,900.45	8	4,542.67	8	4,183.43	8	3,824.22	8	3,464.98	8	3,105.77	8	2,746.54		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,149.76	1/4	4,893.02	1/4	4,535.19	1/4	4,175.95	1/4	3,816.74	1/4	3,457.50	1/4	3,098.29	1/4	2,739.05
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,149.11	1/2	4,885.60	1/2	4,527.70	1/2	4,168.47	1/2	3,809.25	1/2	3,450.02	1/2	3,090.80	1/2	2,731.57
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,148.45	3/4	4,878.17	3/4	4,520.21	3/4	4,160.99	3/4	3,801.76	3/4	3,442.54	3/4	3,083.31	3/4	2,724.08
9		9		9		9	5,147.80	9	4,870.74	9	4,512.73	9	4,153.51	9	3,794.27	9	3,435.05	9	3,075.82	9	2,716.60
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,147.14	1/4	4,863.31	1/4	4,505.24	1/4	4,146.02	1/4	3,786.79	1/4	3,427.57	1/4	3,068.33	1/4	2,709.12
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,145.49	1/2	4,855.88	1/2	4,497.76	1/2	4,138.54	1/2	3,779.30	1/2	3,420.09	1/2	3,060.85	1/2	2,701.64
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,143.83	3/4	4,848.45	3/4	4,490.27	3/4	4,131.05	3/4	3,771.82	3/4	3,412.61	3/4	3,053.37	3/4	2,694.15
10		10		10		10	5,142.18	10	4,841.02	10	4,482.79	10	4,123.56	10	3,764.34	10	3,405.13	10	3,045.89	10	2,686.67
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,140.52	1/4	4,833.60	1/4	4,475.31	1/4	4,116.07	1/4	3,756.86	1/4	3,397.64	1/4	3,038.40	1/4	2,679.19
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,137.76	1/2	4,826.17	1/2	4,467.83	1/2	4,108.59	1/2	3,749.37	1/2	3,390.15	1/2	3,030.92	1/2	2,671.70
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,134.99	3/4	4,818.74	3/4	4,460.35	3/4	4,101.11	3/4	3,741.89	3/4	3,382.67	3/4	3,023.44	3/4	2,664.21
11		11		11		11	5,132.22	11	4,811.31	11	4,452.86	11	4,093.62	11	3,734.41	11	3,375.18	11	3,015.96	11	2,656.73
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,129.45	1/4	4,803.88	1/4	4,445.38	1/4	4,086.14	1/4	3,726.93	1/4	3,367.69	1/4	3,008.48	1/4	2,649.24
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,125.57	1/2	4,796.45	1/2	4,437.89	1/2	4,078.66	1/2	3,719.44	1/2	3,360.21	1/2	3,000.99	1/2	2,641.76
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,121.69	3/4	4,789.02	3/4	4,430.40	3/4	4,071.18	3/4	3,711.95	3/4	3,352.73	3/4	2,993.51	3/4	2,634.27

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 WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HFL 407"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,626.79	0	2,267.58	0	1,908.34	0	1,549.13	0	1,189.89	0	830.67	0	471.44	0	112.22	0		0	
1/4	2,619.31	1/4	2,260.10	1/4	1,900.86	1/4	1,541.64	1/4	1,182.40	1/4	823.19	1/4	463.95	1/4	104.74	1/4		1/4	
1/2	2,611.83	1/2	2,252.61	1/2	1,893.37	1/2	1,534.15	1/2	1,174.92	1/2	815.71	1/2	456.47	1/2	97.26	1/2		1/2	
3/4	2,604.35	3/4	2,245.12	3/4	1,885.89	3/4	1,526.67	3/4	1,167.44	3/4	808.23	3/4	448.99	3/4	89.77	3/4		3/4	
1	2,596.86	1	2,237.63	1	1,878.41	1	1,519.18	1	1,159.96	1	800.74	1	441.51	1	82.29	1		1	
1/4	2,589.38	1/4	2,230.14	1/4	1,870.93	1/4	1,511.69	1/4	1,152.48	1/4	793.26	1/4	434.02	1/4	74.81	1/4		1/4	
1/2	2,581.90	1/2	2,222.66	1/2	1,863.45	1/2	1,504.21	1/2	1,144.99	1/2	785.77	1/2	426.54	1/2	67.46	1/2		1/2	
3/4	2,574.42	3/4	2,215.18	3/4	1,855.96	3/4	1,496.73	3/4	1,137.51	3/4	778.29	3/4	419.06	3/4	60.11	3/4		3/4	
2	2,566.93	2	2,207.70	2	1,848.48	2	1,489.24	2	1,130.03	2	770.80	2	411.58	2	52.76	2		2	
1/4	2,559.45	1/4	2,200.21	1/4	1,841.00	1/4	1,481.76	1/4	1,122.55	1/4	763.31	1/4	404.10	1/4	45.40	1/4		1/4	
1/2	2,551.96	1/2	2,192.73	1/2	1,833.51	1/2	1,474.28	1/2	1,115.06	1/2	755.83	1/2	396.61	1/2	39.66	1/2		1/2	
3/4	2,544.48	3/4	2,185.25	3/4	1,826.02	3/4	1,466.80	3/4	1,107.57	3/4	748.35	3/4	389.12	3/4	33.92	3/4		3/4	
3	2,536.99	3	2,177.77	3	1,818.54	3	1,459.32	3	1,100.08	3	740.86	3	381.63	3	28.17	3		3	
1/4	2,529.50	1/4	2,170.29	1/4	1,811.05	1/4	1,451.83	1/4	1,092.60	1/4	733.38	1/4	374.14	1/4	22.43	1/4		1/4	
1/2	2,522.02	1/2	2,162.80	1/2	1,803.57	1/2	1,444.35	1/2	1,085.11	1/2	725.90	1/2	366.66	1/2		1/2		1/2	
3/4	2,514.54	3/4	2,155.31	3/4	1,796.08	3/4	1,436.87	3/4	1,077.63	3/4	718.42	3/4	359.18	3/4		3/4		3/4	
4	2,507.05	4	2,147.82	4	1,788.60	4	1,429.39	4	1,070.15	4	710.93	4	351.70	4	4	4		4	
1/4	2,499.57	1/4	2,140.33	1/4	1,781.12	1/4	1,421.90	1/4	1,062.67	1/4	703.45	1/4	344.21	1/4		1/4		1/4	
1/2	2,492.09	1/2	2,132.85	1/2	1,773.64	1/2	1,414.42	1/2	1,055.18	1/2	695.96	1/2	336.73	1/2		1/2		1/2	
3/4	2,484.61	3/4	2,125.37	3/4	1,766.15	3/4	1,406.93	3/4	1,047.70	3/4	688.48	3/4	329.25	3/4		3/4		3/4	
5	2,477.13	5	2,117.89	5	1,758.67	5	1,399.44	5	1,040.22	5	680.99	5	321.77	5	5	5		5	
1/4	2,469.64	1/4	2,110.40	1/4	1,751.19	1/4	1,391.95	1/4	1,032.74	1/4	673.50	1/4	314.29	1/4		1/4		1/4	
1/2	2,462.15	1/2	2,102.92	1/2	1,743.70	1/2	1,384.47	1/2	1,025.26	1/2	666.02	1/2	306.80	1/2		1/2		1/2	
3/4	2,454.67	3/4	2,095.44	3/4	1,736.21	3/4	1,376.99	3/4	1,017.77	3/4	658.54	3/4	299.32	3/4		3/4		3/4	
6	2,447.18	6	2,087.96	6	1,728.73	6	1,369.51	6	1,010.29	6	651.05	6	291.84	6	6	6		6	
1/4	2,439.69	1/4	2,080.48	1/4	1,721.24	1/4	1,362.02	1/4	1,002.81	1/4	643.57	1/4	284.36	1/4		1/4		1/4	
1/2	2,432.21	1/2	2,072.99	1/2	1,713.76	1/2	1,354.54	1/2	995.32	1/2	636.09	1/2	276.87	1/2		1/2		1/2	
3/4	2,424.73	3/4	2,065.51	3/4	1,706.27	3/4	1,347.06	3/4	987.83	3/4	628.61	3/4	269.38	3/4		3/4		3/4	
7	2,417.24	7	2,058.03	7	1,698.79	7	1,339.58	7	980.35	7	621.13	7	261.89	7	7	7		7	
1/4	2,409.76	1/4	2,050.55	1/4	1,691.31	1/4	1,332.10	1/4	972.86	1/4	613.64	1/4	254.40	1/4		1/4		1/4	
1/2	2,402.28	1/2	2,043.06	1/2	1,683.83	1/2	1,324.61	1/2	965.37	1/2	606.16	1/2	246.92	1/2		1/2		1/2	
3/4	2,394.80	3/4	2,035.57	3/4	1,676.35	3/4	1,317.12	3/4	957.89	3/4	598.68	3/4	239.44	3/4		3/4		3/4	
8	2,387.32	8	2,028.08	8	1,668.86	8	1,309.63	8	950.41	8	591.20	8	231.96	8	8	8		8	
1/4	2,379.83	1/4	2,020.59	1/4	1,661.38	1/4	1,302.14	1/4	942.93	1/4	583.71	1/4	224.48	1/4		1/4		1/4	
1/2	2,372.35	1/2	2,013.11	1/2	1,653.90	1/2	1,294.66	1/2	935.45	1/2	576.23	1/2	216.99	1/2		1/2		1/2	
3/4	2,364.87	3/4	2,005.63	3/4	1,646.42	3/4	1,287.18	3/4	927.96	3/4	568.74	3/4	209.51	3/4		3/4		3/4	
9	2,357.39	9	1,998.15	9	1,638.93	9	1,279.70	9	920.48	9	561.25	9	202.03	9	9	9		9	
1/4	2,349.90	1/4	1,990.67	1/4	1,631.45	1/4	1,272.21	1/4	913.00	1/4	553.76	1/4	194.55	1/4		1/4		1/4	
1/2	2,342.42	1/2	1,983.18	1/2	1,623.96	1/2	1,264.73	1/2	905.51	1/2	546.28	1/2	187.06	1/2		1/2		1/2	
3/4	2,334.93	3/4	1,975.70	3/4	1,616.48	3/4	1,257.25	3/4	898.02	3/4	538.80	3/4	179.57	3/4		3/4		3/4	
10	2,327.44	10	1,968.22	10	1,608.99	10	1,249.77	10	890.54	10	531.32	10	172.08	10	10	10		10	
1/4	2,319.95	1/4	1,960.74	1/4	1,601.50	1/4	1,242.29	1/4	883.05	1/4	523.83	1/4	164.60	1/4		1/4		1/4	
1/2	2,312.47	1/2	1,953.25	1/2	1,594.02	1/2	1,234.80	1/2	875.57	1/2	516.35	1/2	157.11	1/2		1/2		1/2	
3/4	2,304.99	3/4	1,945.76	3/4	1,586.54	3/4	1,227.32	3/4	868.08	3/4	508.87	3/4	149.63	3/4		3/4		3/4	
11	2,297.51	11	1,938.27	11	1,579.05	11	1,219.84	11	860.60	11	501.39	11	142.15	11	11	11		11	
1/4	2,290.02	1/4	1,930.79	1/4	1,571.57	1/4	1,212.36	1/4	853.12	1/4	493.90	1/4	134.67	1/4		1/4		1/4	
1/2	2,282.54	1/2	1,923.30	1/2	1,564.09	1/2	1,204.87	1/2	845.64	1/2	486.42	1/2	127.18	1/2		1/2		1/2	
3/4	2,275.06	3/4	1,915.82	3/4	1,556.61	3/4	1,197.38	3/4	838.15	3/4	478.93	3/4	119.70	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/10/2007 INSP.
DECK MEASUREMENTS: 12/13/2012 SW
PRINTED: 12/15/2012 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2012

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



BARGE "HFL 407"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0		0	5,125.57	0	4,796.45	0	4,437.89	0	4,078.66	0	3,719.44	0	3,360.21	0	3,000.99
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,121.69	1/4	4,789.02	1/4	4,430.40	1/4	4,071.18	1/4	3,711.95	1/4	3,352.73	1/4	2,993.51
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,117.81	1/2	4,781.60	1/2	4,422.92	1/2	4,063.70	1/2	3,704.46	1/2	3,345.24	1/2	2,986.03
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,113.93	3/4	4,774.17	3/4	4,415.43	3/4	4,056.21	3/4	3,696.98	3/4	3,337.76	3/4	2,978.55
1		1		1		1	5,108.95	1	4,766.74	1	4,407.95	1	4,048.73	1	3,689.49	1	3,330.28	1	2,971.06
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,103.96	1/4	4,759.31	1/4	4,400.46	1/4	4,041.25	1/4	3,682.01	1/4	3,322.80	1/4	2,963.57
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,098.98	1/2	4,751.88	1/2	4,392.98	1/2	4,033.77	1/2	3,674.53	1/2	3,315.32	1/2	2,956.08
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,094.00	3/4	4,744.45	3/4	4,385.50	3/4	4,026.29	3/4	3,667.05	3/4	3,307.83	3/4	2,948.59
2		2		2		2	5,087.92	2	4,737.02	2	4,378.02	2	4,018.80	2	3,659.57	2	3,300.35	2	2,941.11
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,081.83	1/4	4,729.60	1/4	4,370.54	1/4	4,011.31	1/4	3,652.08	1/4	3,292.86	1/4	2,933.63
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,075.75	1/2	4,722.17	1/2	4,363.05	1/2	4,003.82	1/2	3,644.60	1/2	3,285.37	1/2	2,926.15
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,069.67	3/4	4,714.74	3/4	4,355.57	3/4	3,996.33	3/4	3,637.12	3/4	3,277.88	3/4	2,918.67
3		3		3		3	5,062.65	3	4,707.27	3	4,348.09	3	3,988.85	3	3,629.64	3	3,270.40	3	2,911.18
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,055.64	1/4	4,699.80	1/4	4,340.61	1/4	3,981.37	1/4	3,622.15	1/4	3,262.92	1/4	2,903.70
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,048.63	1/2	4,692.33	1/2	4,333.13	1/2	3,973.89	1/2	3,614.67	1/2	3,255.43	1/2	2,896.22
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,041.62	3/4	4,684.86	3/4	4,325.64	3/4	3,966.40	3/4	3,607.19	3/4	3,247.95	3/4	2,888.74
4		4		4		4	5,034.19	4	4,677.37	4	4,318.15	4	3,958.92	4	3,599.70	4	3,240.47	4	2,881.25
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,026.76	1/4	4,669.89	1/4	4,310.67	1/4	3,951.44	1/4	3,592.21	1/4	3,232.99	1/4	2,873.76
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,019.33	1/2	4,662.41	1/2	4,303.18	1/2	3,943.96	1/2	3,584.73	1/2	3,225.51	1/2	2,866.27
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,011.91	3/4	4,654.93	3/4	4,295.69	3/4	3,936.48	3/4	3,577.24	3/4	3,218.02	3/4	2,858.79
5		5		5		5	5,004.48	5	4,647.44	5	4,288.21	5	3,928.99	5	3,569.76	5	3,210.54	5	2,851.30
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,997.05	1/4	4,639.95	1/4	4,280.73	1/4	3,921.50	1/4	3,562.27	1/4	3,203.06	1/4	2,843.82
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,989.62	1/2	4,632.46	1/2	4,273.24	1/2	3,914.01	1/2	3,554.79	1/2	3,195.58	1/2	2,836.34
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,982.19	3/4	4,624.98	3/4	4,265.76	3/4	3,906.52	3/4	3,547.31	3/4	3,188.10	3/4	2,828.86
6		6		6		6	4,974.76	6	4,617.49	6	4,258.28	6	3,899.04	6	3,539.83	6	3,180.61	6	2,821.37
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,967.32	1/4	4,610.01	1/4	4,250.80	1/4	3,891.56	1/4	3,532.35	1/4	3,173.12	1/4	2,813.89
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,959.89	1/2	4,602.53	1/2	4,243.32	1/2	3,884.08	1/2	3,524.86	1/2	3,165.63	1/2	2,806.41
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,952.45	3/4	4,595.05	3/4	4,235.83	3/4	3,876.59	3/4	3,517.38	3/4	3,158.14	3/4	2,798.93
7		7		7		7	4,945.02	7	4,587.57	7	4,228.35	7	3,869.11	7	3,509.89	7	3,150.66	7	2,791.45
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,937.60	1/4	4,580.08	1/4	4,220.86	1/4	3,861.63	1/4	3,502.40	1/4	3,143.18	1/4	2,783.96
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,930.17	1/2	4,572.60	1/2	4,213.37	1/2	3,854.15	1/2	3,494.92	1/2	3,135.70	1/2	2,776.48
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,922.74	3/4	4,565.12	3/4	4,205.88	3/4	3,846.67	3/4	3,487.43	3/4	3,128.21	3/4	2,769.00
8		8		8		8	4,915.31	8	4,557.64	8	4,198.40	8	3,839.18	8	3,479.95	8	3,120.73	8	2,761.51
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,907.88	1/4	4,550.15	1/4	4,190.92	1/4	3,831.70	1/4	3,472.46	1/4	3,113.25	1/4	2,754.02
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,900.45	1/2	4,542.67	1/2	4,183.43	1/2	3,824.22	1/2	3,464.98	1/2	3,105.77	1/2	2,746.54
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,149.76	3/4	4,893.02	3/4	4,535.19	3/4	4,175.95	3/4	3,816.74	3/4	3,457.50	3/4	3,098.29
9		9		9		9	5,149.11	9	4,885.60	9	4,527.70	9	4,168.47	9	3,809.25	9	3,450.02	9	3,090.80
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,148.45	1/4	4,878.17	1/4	4,520.21	1/4	4,160.99	1/4	3,801.76	1/4	3,442.54	1/4	3,083.31
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,147.80	1/2	4,870.74	1/2	4,512.73	1/2	4,153.51	1/2	3,794.27	1/2	3,435.05	1/2	3,075.82
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,147.14	3/4	4,863.31	3/4	4,505.24	3/4	4,146.02	3/4	3,786.79	3/4	3,427.57	3/4	3,068.33
10		10		10		10	5,145.49	10	4,855.88	10	4,497.76	10	4,138.54	10	3,779.30	10	3,420.09	10	3,060.85
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,143.83	1/4	4,848.45	1/4	4,490.27	1/4	4,131.05	1/4	3,771.82	1/4	3,412.61	1/4	3,053.37
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,142.18	1/2	4,841.02	1/2	4,482.79	1/2	4,123.56	1/2	3,764.34	1/2	3,405.13	1/2	3,045.89
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,140.52	3/4	4,833.60	3/4	4,475.31	3/4	4,116.07	3/4	3,756.86	3/4	3,397.64	3/4	3,038.40
11		11		11		11	5,137.76	11	4,826.17	11	4,467.83	11	4,108.59	11	3,749.37	11	3,390.15	11	3,030.92
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,134.99	1/4	4,818.74	1/4	4,460.35	1/4	4,101.11	1/4	3,741.89	1/4	3,382.67	1/4	3,023.44
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,132.22	1/2	4,811.31	1/2	4,452.86	1/2	4,093.62	1/2	3,734.41	1/2	3,375.18	1/2	3,015.96
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,129.45	3/4	4,803.88	3/4	4,445.38	3/4	4,086.14	3/4	3,726.93	3/4	3,367.69	3/4	3,008.48

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 WITH "HERMETIC" CLOSED GAUGING DEVICE.

GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HFL 407"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,641.76	0	2,282.54	0	1,923.30	0	1,564.09	0	1,204.87	0	845.64	0	486.42	0	127.18	0		0	
1/4	2,634.27	1/4	2,275.06	1/4	1,915.82	1/4	1,556.61	1/4	1,197.38	1/4	838.15	1/4	478.93	1/4	119.70	1/4		1/4	
1/2	2,626.79	1/2	2,267.58	1/2	1,908.34	1/2	1,549.13	1/2	1,189.89	1/2	830.67	1/2	471.44	1/2	112.22	1/2		1/2	
3/4	2,619.31	3/4	2,260.10	3/4	1,900.86	3/4	1,541.64	3/4	1,182.40	3/4	823.19	3/4	463.95	3/4	104.74	3/4		3/4	
1	2,611.83	1	2,252.61	1	1,893.37	1	1,534.15	1	1,174.92	1	815.71	1	456.47	1	97.26	1		1	
1/4	2,604.35	1/4	2,245.12	1/4	1,885.89	1/4	1,526.67	1/4	1,167.44	1/4	808.23	1/4	448.99	1/4	89.77	1/4		1/4	
1/2	2,596.86	1/2	2,237.63	1/2	1,878.41	1/2	1,519.18	1/2	1,159.96	1/2	800.74	1/2	441.51	1/2	82.29	1/2		1/2	
3/4	2,589.38	3/4	2,230.14	3/4	1,870.93	3/4	1,511.69	3/4	1,152.48	3/4	793.26	3/4	434.02	3/4	74.81	3/4		3/4	
2	2,581.90	2	2,222.66	2	1,863.45	2	1,504.21	2	1,144.99	2	785.77	2	426.54	2	67.46	2		2	
1/4	2,574.42	1/4	2,215.18	1/4	1,855.96	1/4	1,496.73	1/4	1,137.51	1/4	778.29	1/4	419.06	1/4	60.11	1/4		1/4	
1/2	2,566.93	1/2	2,207.70	1/2	1,848.48	1/2	1,489.24	1/2	1,130.03	1/2	770.80	1/2	411.58	1/2	52.76	1/2		1/2	
3/4	2,559.45	3/4	2,200.21	3/4	1,841.00	3/4	1,481.76	3/4	1,122.55	3/4	763.31	3/4	404.10	3/4	45.40	3/4		3/4	
3	2,551.96	3	2,192.73	3	1,833.51	3	1,474.28	3	1,115.06	3	755.83	3	396.61	3	39.66	3		3	
1/4	2,544.48	1/4	2,185.25	1/4	1,826.02	1/4	1,466.80	1/4	1,107.57	1/4	748.35	1/4	389.12	1/4	33.92	1/4		1/4	
1/2	2,536.99	1/2	2,177.77	1/2	1,818.54	1/2	1,459.32	1/2	1,100.08	1/2	740.86	1/2	381.63	1/2	28.17	1/2		1/2	
3/4	2,529.50	3/4	2,170.29	3/4	1,811.05	3/4	1,451.83	3/4	1,092.60	3/4	733.38	3/4	374.14	3/4	22.43	3/4		3/4	
4	2,522.02	4	2,162.80	4	1,803.57	4	1,444.35	4	1,085.11	4	725.90	4	366.66	4		4		4	
1/4	2,514.54	1/4	2,155.31	1/4	1,796.08	1/4	1,436.87	1/4	1,077.63	1/4	718.42	1/4	359.18	1/4		1/4		1/4	
1/2	2,507.05	1/2	2,147.82	1/2	1,788.60	1/2	1,429.39	1/2	1,070.15	1/2	710.93	1/2	351.70	1/2		1/2		1/2	
3/4	2,499.57	3/4	2,140.33	3/4	1,781.12	3/4	1,421.90	3/4	1,062.67	3/4	703.45	3/4	344.21	3/4		3/4		3/4	
5	2,492.09	5	2,132.85	5	1,773.64	5	1,414.42	5	1,055.18	5	695.96	5	336.73	5		5		5	
1/4	2,484.61	1/4	2,125.37	1/4	1,766.15	1/4	1,406.93	1/4	1,047.70	1/4	688.48	1/4	329.25	1/4		1/4		1/4	
1/2	2,477.13	1/2	2,117.89	1/2	1,758.67	1/2	1,399.44	1/2	1,040.22	1/2	680.99	1/2	321.77	1/2		1/2		1/2	
3/4	2,469.64	3/4	2,110.40	3/4	1,751.19	3/4	1,391.95	3/4	1,032.74	3/4	673.50	3/4	314.29	3/4		3/4		3/4	
6	2,462.15	6	2,102.92	6	1,743.70	6	1,384.47	6	1,025.26	6	666.02	6	306.80	6		6		6	
1/4	2,454.67	1/4	2,095.44	1/4	1,736.21	1/4	1,376.99	1/4	1,017.77	1/4	658.54	1/4	299.32	1/4		1/4		1/4	
1/2	2,447.18	1/2	2,087.96	1/2	1,728.73	1/2	1,369.51	1/2	1,010.29	1/2	651.05	1/2	291.84	1/2		1/2		1/2	
3/4	2,439.69	3/4	2,080.48	3/4	1,721.24	3/4	1,362.02	3/4	1,002.81	3/4	643.57	3/4	284.36	3/4		3/4		3/4	
7	2,432.21	7	2,072.99	7	1,713.76	7	1,354.54	7	995.32	7	636.09	7	276.87	7		7		7	
1/4	2,424.73	1/4	2,065.51	1/4	1,706.27	1/4	1,347.06	1/4	987.83	1/4	628.61	1/4	269.38	1/4		1/4		1/4	
1/2	2,417.24	1/2	2,058.03	1/2	1,698.79	1/2	1,339.58	1/2	980.35	1/2	621.13	1/2	261.89	1/2		1/2		1/2	
3/4	2,409.76	3/4	2,050.55	3/4	1,691.31	3/4	1,332.10	3/4	972.86	3/4	613.64	3/4	254.40	3/4		3/4		3/4	
8	2,402.28	8	2,043.06	8	1,683.83	8	1,324.61	8	965.37	8	606.16	8	246.92	8		8		8	
1/4	2,394.80	1/4	2,035.57	1/4	1,676.35	1/4	1,317.12	1/4	957.89	1/4	598.68	1/4	239.44	1/4		1/4		1/4	
1/2	2,387.32	1/2	2,028.08	1/2	1,668.86	1/2	1,309.63	1/2	950.41	1/2	591.20	1/2	231.96	1/2		1/2		1/2	
3/4	2,379.83	3/4	2,020.59	3/4	1,661.38	3/4	1,302.14	3/4	942.93	3/4	583.71	3/4	224.48	3/4		3/4		3/4	
9	2,372.35	9	2,013.11	9	1,653.90	9	1,294.66	9	935.45	9	576.23	9	216.99	9		9		9	
1/4	2,364.87	1/4	2,005.63	1/4	1,646.42	1/4	1,287.18	1/4	927.96	1/4	568.74	1/4	209.51	1/4		1/4		1/4	
1/2	2,357.39	1/2	1,998.15	1/2	1,638.93	1/2	1,279.70	1/2	920.48	1/2	561.25	1/2	202.03	1/2		1/2		1/2	
3/4	2,349.90	3/4	1,990.67	3/4	1,631.45	3/4	1,272.21	3/4	913.00	3/4	553.76	3/4	194.55	3/4		3/4		3/4	
10	2,342.42	10	1,983.18	10	1,623.96	10	1,264.73	10	905.51	10	546.28	10	187.06	10		10		10	
1/4	2,334.93	1/4	1,975.70	1/4	1,616.48	1/4	1,257.25	1/4	898.02	1/4	538.80	1/4	179.57	1/4		1/4		1/4	
1/2	2,327.44	1/2	1,968.22	1/2	1,608.99	1/2	1,249.77	1/2	890.54	1/2	531.32	1/2	172.08	1/2		1/2		1/2	
3/4	2,319.95	3/4	1,960.74	3/4	1,601.50	3/4	1,242.29	3/4	883.05	3/4	523.83	3/4	164.60	3/4		3/4		3/4	
11	2,312.47	11	1,953.25	11	1,594.02	11	1,234.80	11	875.57	11	516.35	11	157.11	11		11		11	
1/4	2,304.99	1/4	1,945.76	1/4	1,586.54	1/4	1,227.32	1/4	868.08	1/4	508.87	1/4	149.63	1/4		1/4		1/4	
1/2	2,297.51	1/2	1,938.27	1/2	1,579.05	1/2	1,219.84	1/2	860.60	1/2	501.39	1/2	142.15	1/2		1/2		1/2	
3/4	2,290.02	3/4	1,930.79	3/4	1,571.57	3/4	1,212.36	3/4	853.12	3/4	493.90	3/4	134.67	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/10/2007 INSP.
DECK MEASUREMENTS: 12/13/2012 SW
PRINTED: 12/15/2012 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2012

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



BARGE "HFL 407"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-02 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT		
0		0		0		0	4,607.53	0	4,369.24	0	4,120.66	0	3,872.13	0	3,623.59	0	3,314.62	0	2,957.07		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,604.08	1/4	4,364.12	1/4	4,115.48	1/4	3,866.95	1/4	3,618.42	1/4	3,307.17	1/4	2,949.62		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,600.64	1/2	4,359.00	1/2	4,110.30	1/2	3,861.77	1/2	3,613.24	1/2	3,299.71	1/2	2,942.17		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,597.19	3/4	4,353.88	3/4	4,105.12	3/4	3,856.60	3/4	3,608.07	3/4	3,292.26	3/4	2,934.71		
1		1		1		1	4,592.97	1	4,348.64	1	4,099.94	1	3,851.42	1	3,602.89	1	3,282.82	1	2,927.27		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,588.75	1/4	4,343.40	1/4	4,094.76	1/4	3,846.24	1/4	3,597.71	1/4	3,277.37	1/4	2,919.82		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,584.53	1/2	4,338.17	1/2	4,089.58	1/2	3,841.06	1/2	3,592.54	1/2	3,269.92	1/2	2,912.38		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,580.31	3/4	4,332.93	3/4	4,084.41	3/4	3,835.88	3/4	3,587.36	3/4	3,262.48	3/4	2,904.93		
2		2		2		2	4,575.42	2	4,327.76	2	4,079.23	2	3,830.70	2	3,582.08	2	3,255.02	2	2,897.48		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,570.54	1/4	4,322.58	1/4	4,074.05	1/4	3,825.52	1/4	3,576.81	1/4	3,247.57	1/4	2,890.04		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,565.65	1/2	4,317.41	1/2	4,068.87	1/2	3,820.35	1/2	3,571.54	1/2	3,240.12	1/2	2,882.59		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,560.76	3/4	4,312.24	3/4	4,063.69	3/4	3,815.17	3/4	3,566.26	3/4	3,232.67	3/4	2,875.14		
3		3		3		3	4,555.58	3	4,307.06	3	4,058.51	3	3,809.99	3	3,560.66	3	3,225.22	3	2,867.69		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,550.41	1/4	4,301.88	1/4	4,053.33	1/4	3,804.81	1/4	3,555.06	1/4	3,217.77	1/4	2,860.24		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,545.23	1/2	4,296.70	1/2	4,048.15	1/2	3,799.63	1/2	3,549.46	1/2	3,210.33	1/2	2,852.79		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,540.05	3/4	4,291.52	3/4	4,042.98	3/4	3,794.45	3/4	3,543.86	3/4	3,202.88	3/4	2,845.33		
4		4		4		4	4,534.87	4	4,286.35	4	4,037.80	4	3,789.27	4	3,537.91	4	3,195.43	4	2,837.89		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,529.69	1/4	4,281.17	1/4	4,032.63	1/4	3,784.10	1/4	3,531.96	1/4	3,187.99	1/4	2,830.44		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,524.51	1/2	4,275.99	1/2	4,027.46	1/2	3,778.92	1/2	3,526.02	1/2	3,180.54	1/2	2,822.99		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,519.33	3/4	4,270.81	3/4	4,022.29	3/4	3,773.74	3/4	3,520.07	3/4	3,173.10	3/4	2,815.55		
5		5		5		5	4,514.16	5	4,265.63	5	4,017.11	5	3,768.56	5	3,513.79	5	3,165.64	5	2,808.10		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,508.98	1/4	4,260.45	1/4	4,011.93	1/4	3,763.38	1/4	3,507.51	1/4	3,158.19	1/4	2,800.64		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,503.80	1/2	4,255.27	1/2	4,006.75	1/2	3,758.20	1/2	3,501.23	1/2	3,150.74	1/2	2,793.19		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,498.62	3/4	4,250.10	3/4	4,001.57	3/4	3,753.02	3/4	3,494.95	3/4	3,143.29	3/4	2,785.74		
6		6		6		6	4,493.44	6	4,244.92	6	3,996.39	6	3,747.85	6	3,488.33	6	3,135.84	6	2,778.29		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,488.26	1/4	4,239.74	1/4	3,991.21	1/4	3,742.68	1/4	3,481.71	1/4	3,128.39	1/4	2,770.85		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,483.08	1/2	4,234.56	1/2	3,986.04	1/2	3,737.51	1/2	3,475.10	1/2	3,120.95	1/2	2,763.40		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,477.91	3/4	4,229.38	3/4	3,980.86	3/4	3,732.33	3/4	3,468.48	3/4	3,113.50	3/4	2,755.95		
7		7		7		7	4,472.73	7	4,224.20	7	3,975.68	7	3,727.16	7	3,461.52	7	3,106.05	7	2,748.51		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,467.55	1/4	4,219.02	1/4	3,970.50	1/4	3,721.98	1/4	3,454.56	1/4	3,098.60	1/4	2,741.06		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,462.37	1/2	4,213.85	1/2	3,965.32	1/2	3,716.80	1/2	3,447.60	1/2	3,091.14	1/2	2,733.61		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,457.19	3/4	4,208.67	3/4	3,960.14	3/4	3,711.62	3/4	3,440.64	3/4	3,083.69	3/4	2,726.17		
8		8		8		8	4,635.79	8	4,452.02	8	4,203.49	8	3,954.96	8	3,706.44	8	3,433.35	8	3,076.24	8	2,718.71
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,634.88	1/4	4,446.85	1/4	4,198.31	1/4	3,949.79	1/4	3,701.26	1/4	3,426.05	1/4	3,068.80	1/4	2,711.26
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,634.43	1/2	4,441.67	1/2	4,193.13	1/2	3,944.61	1/2	3,696.08	1/2	3,418.75	1/2	3,061.35	1/2	2,703.81
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,633.98	3/4	4,436.50	3/4	4,187.95	3/4	3,939.43	3/4	3,690.91	3/4	3,411.45	3/4	3,053.90	3/4	2,696.36
9		9		9		9	4,632.83	9	4,431.32	9	4,182.78	9	3,934.25	9	3,685.73	9	3,404.00	9	3,046.46	9	2,688.91
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,631.68	1/4	4,426.14	1/4	4,177.61	1/4	3,929.07	1/4	3,680.55	1/4	3,396.55	1/4	3,039.01	1/4	2,681.46
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,630.53	1/2	4,420.96	1/2	4,172.44	1/2	3,923.89	1/2	3,675.37	1/2	3,389.10	1/2	3,031.57	1/2	2,674.02
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,629.38	3/4	4,415.79	3/4	4,167.26	3/4	3,918.71	3/4	3,670.19	3/4	3,381.64	3/4	3,024.12	3/4	2,666.57
10		10		10		10	4,627.46	10	4,410.61	10	4,162.08	10	3,913.54	10	3,665.01	10	3,374.20	10	3,016.67	10	2,659.12
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,625.55	1/4	4,405.43	1/4	4,156.91	1/4	3,908.36	1/4	3,659.83	1/4	3,366.75	1/4	3,009.21	1/4	2,651.67
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,623.63	1/2	4,400.25	1/2	4,151.73	1/2	3,903.18	1/2	3,654.65	1/2	3,359.30	1/2	3,001.76	1/2	2,644.21
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,621.71	3/4	4,395.07	3/4	4,146.55	3/4	3,898.00	3/4	3,649.48	3/4	3,351.86	3/4	2,994.31	3/4	2,636.76
11		11		11		11	4,619.03	11	4,389.89	11	4,141.37	11	3,892.83	11	3,644.30	11	3,344.41	11	2,986.86	11	2,629.32
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,616.35	1/4	4,384.71	1/4	4,136.19	1/4	3,887.66	1/4	3,639.12	1/4	3,336.96	1/4	2,979.42	1/4	2,621.87
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,613.66	1/2	4,379.54	1/2	4,131.01	1/2	3,882.48	1/2	3,633.94	1/2	3,329.52	1/2	2,971.97	1/2	2,614.42
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,610.98	3/4	4,374.36	3/4	4,125.83	3/4	3,877.31	3/4	3,628.76	3/4	3,322.07	3/4	2,964.52	3/4	2,606.98

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 WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-00" FORWARD OF AFT BULKHEAD.

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



BARGE "HFL 407"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-02 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	2,599.53	0	2,241.98	0	1,884.45	0	1,526.90	0	1,169.36	0	812.36	0	454.92	0	96.89	0		0	
1/4	2,592.08	1/4	2,234.54	1/4	1,877.00	1/4	1,519.45	1/4	1,161.92	1/4	804.93	1/4	447.46	1/4	89.43	1/4		1/4	
1/2	2,584.64	1/2	2,227.09	1/2	1,869.55	1/2	1,512.00	1/2	1,154.47	1/2	797.50	1/2	440.01	1/2	81.96	1/2		1/2	
3/4	2,577.19	3/4	2,219.64	3/4	1,862.10	3/4	1,504.55	3/4	1,147.02	3/4	790.07	3/4	432.55	3/4	74.50	3/4		3/4	
1	2,569.74	1	2,212.19	1	1,854.65	1	1,497.10	1	1,139.57	1	782.64	1	425.09	1	67.18	1		1	
1/4	2,562.29	1/4	2,204.74	1/4	1,847.20	1/4	1,489.65	1/4	1,132.12	1/4	775.21	1/4	417.63	1/4	59.86	1/4		1/4	
1/2	2,554.83	1/2	2,197.29	1/2	1,839.76	1/2	1,482.21	1/2	1,124.67	1/2	767.79	1/2	410.17	1/2	52.54	1/2		1/2	
3/4	2,547.38	3/4	2,189.83	3/4	1,832.31	3/4	1,474.76	3/4	1,117.21	3/4	760.36	3/4	402.71	3/4	45.21	3/4		3/4	
2	2,539.93	2	2,182.39	2	1,824.86	2	1,467.32	2	1,109.77	2	752.93	2	395.26	2	39.49	2		2	
1/4	2,532.49	1/4	2,174.94	1/4	1,817.40	1/4	1,459.87	1/4	1,102.32	1/4	745.50	1/4	387.80	1/4	33.76	1/4		1/4	
1/2	2,525.04	1/2	2,167.49	1/2	1,809.95	1/2	1,452.42	1/2	1,094.88	1/2	738.07	1/2	380.34	1/2	28.04	1/2		1/2	
3/4	2,517.60	3/4	2,160.05	3/4	1,802.50	3/4	1,444.98	3/4	1,087.43	3/4	730.64	3/4	372.88	3/4	22.30	3/4		3/4	
3	2,510.14	3	2,152.60	3	1,795.05	3	1,437.52	3	1,079.98	3	723.21	3	365.42	3		3		3	
1/4	2,502.69	1/4	2,145.15	1/4	1,787.61	1/4	1,430.07	1/4	1,072.52	1/4	715.79	1/4	357.96	1/4		1/4		1/4	
1/2	2,495.24	1/2	2,137.71	1/2	1,780.16	1/2	1,422.62	1/2	1,065.07	1/2	708.36	1/2	350.51	1/2		1/2		1/2	
3/4	2,487.79	3/4	2,130.26	3/4	1,772.71	3/4	1,415.17	3/4	1,057.62	3/4	700.93	3/4	343.05	3/4		3/4		3/4	
4	2,480.34	4	2,122.81	4	1,765.27	4	1,407.72	4	1,050.17	4	693.50	4	335.58	4		4		4	
1/4	2,472.89	1/4	2,115.36	1/4	1,757.82	1/4	1,400.27	1/4	1,042.73	1/4	686.07	1/4	328.12	1/4		1/4		1/4	
1/2	2,465.45	1/2	2,107.90	1/2	1,750.38	1/2	1,392.83	1/2	1,035.28	1/2	678.64	1/2	320.65	1/2		1/2		1/2	
3/4	2,458.00	3/4	2,100.45	3/4	1,742.93	3/4	1,385.38	3/4	1,027.83	3/4	671.21	3/4	313.19	3/4		3/4		3/4	
5	2,450.55	5	2,093.01	5	1,735.48	5	1,377.93	5	1,020.40	5	663.76	5	305.73	5		5		5	
1/4	2,443.11	1/4	2,085.56	1/4	1,728.02	1/4	1,370.48	1/4	1,012.96	1/4	656.31	1/4	298.27	1/4		1/4		1/4	
1/2	2,435.66	1/2	2,078.11	1/2	1,720.57	1/2	1,363.02	1/2	1,005.53	1/2	648.86	1/2	290.81	1/2		1/2		1/2	
3/4	2,428.21	3/4	2,070.67	3/4	1,713.12	3/4	1,355.57	3/4	998.10	3/4	641.40	3/4	283.36	3/4		3/4		3/4	
6	2,420.76	6	2,063.22	6	1,705.67	6	1,348.12	6	990.67	6	633.95	6	275.90	6		6		6	
1/4	2,413.31	1/4	2,055.77	1/4	1,698.23	1/4	1,340.68	1/4	983.24	1/4	626.49	1/4	268.44	1/4		1/4		1/4	
1/2	2,405.86	1/2	2,048.33	1/2	1,690.78	1/2	1,333.23	1/2	975.81	1/2	619.03	1/2	260.98	1/2		1/2		1/2	
3/4	2,398.40	3/4	2,040.88	3/4	1,683.33	3/4	1,325.79	3/4	968.38	3/4	611.57	3/4	253.52	3/4		3/4		3/4	
7	2,390.96	7	2,033.43	7	1,675.88	7	1,318.34	7	960.95	7	604.11	7	246.06	7		7		7	
1/4	2,383.51	1/4	2,025.98	1/4	1,668.43	1/4	1,310.89	1/4	953.52	1/4	596.64	1/4	238.61	1/4		1/4		1/4	
1/2	2,376.07	1/2	2,018.52	1/2	1,660.98	1/2	1,303.45	1/2	946.10	1/2	589.18	1/2	231.15	1/2		1/2		1/2	
3/4	2,368.62	3/4	2,011.07	3/4	1,653.52	3/4	1,296.00	3/4	938.67	3/4	581.71	3/4	223.69	3/4		3/4		3/4	
8	2,361.17	8	2,003.63	8	1,646.08	8	1,288.55	8	931.24	8	574.25	8	216.23	8		8		8	
1/4	2,353.71	1/4	1,996.18	1/4	1,638.63	1/4	1,281.10	1/4	923.81	1/4	566.80	1/4	208.77	1/4		1/4		1/4	
1/2	2,346.26	1/2	1,988.73	1/2	1,631.18	1/2	1,273.64	1/2	916.38	1/2	559.34	1/2	201.31	1/2		1/2		1/2	
3/4	2,338.81	3/4	1,981.29	3/4	1,623.74	3/4	1,266.19	3/4	908.95	3/4	551.88	3/4	193.86	3/4		3/4		3/4	
9	2,331.36	9	1,973.83	9	1,616.29	9	1,258.74	9	901.52	9	544.42	9	186.40	9		9		9	
1/4	2,323.92	1/4	1,966.38	1/4	1,608.85	1/4	1,251.30	1/4	894.10	1/4	536.96	1/4	178.94	1/4		1/4		1/4	
1/2	2,316.47	1/2	1,958.93	1/2	1,601.40	1/2	1,243.85	1/2	886.67	1/2	529.50	1/2	171.48	1/2		1/2		1/2	
3/4	2,309.02	3/4	1,951.48	3/4	1,593.95	3/4	1,236.40	3/4	879.24	3/4	522.05	3/4	164.02	3/4		3/4		3/4	
10	2,301.58	10	1,944.03	10	1,586.50	10	1,228.95	10	871.80	10	514.59	10	156.57	10		10		10	
1/4	2,294.13	1/4	1,936.58	1/4	1,579.05	1/4	1,221.50	1/4	864.37	1/4	507.13	1/4	149.11	1/4		1/4		1/4	
1/2	2,286.68	1/2	1,929.14	1/2	1,571.60	1/2	1,214.05	1/2	856.94	1/2	499.67	1/2	141.65	1/2		1/2		1/2	
3/4	2,279.24	3/4	1,921.69	3/4	1,564.14	3/4	1,206.60	3/4	849.50	3/4	492.21	3/4	134.19	3/4		3/4		3/4	
11	2,271.79	11	1,914.24	11	1,556.70	11	1,199.15	11	842.07	11	484.76	11	126.73	11		11		11	
1/4	2,264.33	1/4	1,906.80	1/4	1,549.25	1/4	1,191.70	1/4	834.64	1/4	477.30	1/4	119.27	1/4		1/4		1/4	
1/2	2,256.88	1/2	1,899.35	1/2	1,541.80	1/2	1,184.26	1/2	827.21	1/2	469.84	1/2	111.82	1/2		1/2		1/2	
3/4	2,249.43	3/4	1,891.90	3/4	1,534.36	3/4	1,176.81	3/4	819.79	3/4	462.38	3/4	104.36	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/10/2007 INSP.
DECK MEASUREMENTS: 12/13/2012 SW
PRINTED: 12/15/2012 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2012

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



BARGE "HFL 407"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0		0	4,613.66	0	4,379.54	0	4,131.01	0	3,882.48	0	3,633.94	0	3,329.52	0	2,971.97
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,610.98	1/4	4,374.36	1/4	4,125.83	1/4	3,877.31	1/4	3,628.76	1/4	3,322.07	1/4	2,964.52
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,607.53	1/2	4,369.24	1/2	4,120.66	1/2	3,872.13	1/2	3,623.59	1/2	3,314.62	1/2	2,957.07
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,604.08	3/4	4,364.12	3/4	4,115.48	3/4	3,866.95	3/4	3,618.42	3/4	3,307.17	3/4	2,949.62
1		1		1		1	4,600.64	1	4,359.00	1	4,110.30	1	3,861.77	1	3,613.24	1	3,299.71	1	2,942.17
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,597.19	1/4	4,353.88	1/4	4,105.12	1/4	3,856.60	1/4	3,608.07	1/4	3,292.26	1/4	2,934.71
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,592.97	1/2	4,348.64	1/2	4,099.94	1/2	3,851.42	1/2	3,602.89	1/2	3,284.82	1/2	2,927.27
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,588.75	3/4	4,343.40	3/4	4,094.76	3/4	3,846.24	3/4	3,597.71	3/4	3,277.37	3/4	2,919.82
2		2		2		2	4,584.53	2	4,338.17	2	4,089.58	2	3,841.06	2	3,592.54	2	3,269.92	2	2,912.38
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,580.31	1/4	4,332.93	1/4	4,084.41	1/4	3,835.88	1/4	3,587.36	1/4	3,262.48	1/4	2,904.93
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,575.42	1/2	4,327.76	1/2	4,079.23	1/2	3,830.70	1/2	3,582.08	1/2	3,255.02	1/2	2,897.48
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,570.54	3/4	4,322.58	3/4	4,074.05	3/4	3,825.52	3/4	3,576.81	3/4	3,247.57	3/4	2,890.04
3		3		3		3	4,565.65	3	4,317.41	3	4,068.87	3	3,820.35	3	3,571.54	3	3,240.12	3	2,882.59
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,560.76	1/4	4,312.24	1/4	4,063.69	1/4	3,815.17	1/4	3,566.26	1/4	3,232.67	1/4	2,875.14
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,555.58	1/2	4,307.06	1/2	4,058.51	1/2	3,809.99	1/2	3,560.66	1/2	3,225.22	1/2	2,867.69
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,550.41	3/4	4,301.88	3/4	4,053.33	3/4	3,804.81	3/4	3,555.06	3/4	3,217.77	3/4	2,860.24
4		4		4		4	4,545.23	4	4,296.70	4	4,048.15	4	3,799.63	4	3,549.46	4	3,210.33	4	2,852.79
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,540.05	1/4	4,291.52	1/4	4,042.98	1/4	3,794.45	1/4	3,543.86	1/4	3,202.88	1/4	2,845.33
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,534.87	1/2	4,286.35	1/2	4,037.80	1/2	3,789.27	1/2	3,537.91	1/2	3,195.43	1/2	2,837.89
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,529.69	3/4	4,281.17	3/4	4,032.63	3/4	3,784.10	3/4	3,531.96	3/4	3,187.99	3/4	2,830.44
5		5		5		5	4,524.51	5	4,275.99	5	4,027.46	5	3,778.92	5	3,526.02	5	3,180.54	5	2,822.99
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,519.33	1/4	4,270.81	1/4	4,022.29	1/4	3,773.74	1/4	3,520.07	1/4	3,173.10	1/4	2,815.55
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,514.16	1/2	4,265.63	1/2	4,017.11	1/2	3,768.56	1/2	3,513.79	1/2	3,165.64	1/2	2,808.10
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,508.98	3/4	4,260.45	3/4	4,011.93	3/4	3,763.38	3/4	3,507.51	3/4	3,158.19	3/4	2,800.64
6		6		6		6	4,503.80	6	4,255.27	6	4,006.75	6	3,758.20	6	3,501.23	6	3,150.74	6	2,793.19
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,498.62	1/4	4,250.10	1/4	4,001.57	1/4	3,753.02	1/4	3,494.95	1/4	3,143.29	1/4	2,785.74
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,493.44	1/2	4,244.92	1/2	3,996.39	1/2	3,747.85	1/2	3,488.33	1/2	3,135.84	1/2	2,778.29
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,488.26	3/4	4,239.74	3/4	3,991.21	3/4	3,742.68	3/4	3,481.71	3/4	3,128.39	3/4	2,770.85
7		7		7		7	4,483.08	7	4,234.56	7	3,986.04	7	3,737.51	7	3,475.10	7	3,120.95	7	2,763.40
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,477.91	1/4	4,229.38	1/4	3,980.86	1/4	3,732.33	1/4	3,468.48	1/4	3,113.50	1/4	2,755.95
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,472.73	1/2	4,224.20	1/2	3,975.68	1/2	3,727.16	1/2	3,461.52	1/2	3,106.05	1/2	2,748.51
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,467.55	3/4	4,219.02	3/4	3,970.50	3/4	3,721.98	3/4	3,454.56	3/4	3,098.60	3/4	2,741.06
8		8		8		8	4,462.37	8	4,213.85	8	3,965.32	8	3,716.80	8	3,447.60	8	3,091.14	8	2,733.61
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,635.79	1/4	4,457.19	1/4	4,208.67	1/4	3,960.14	1/4	3,711.62	1/4	3,440.64	1/4	3,083.69
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,635.33	1/2	4,452.02	1/2	4,203.49	1/2	3,954.96	1/2	3,706.44	1/2	3,433.35	1/2	3,076.24
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,634.88	3/4	4,446.85	3/4	4,198.31	3/4	3,949.79	3/4	3,701.26	3/4	3,426.05	3/4	3,068.80
9		9		9		9	4,634.43	9	4,441.67	9	4,193.13	9	3,944.61	9	3,696.08	9	3,418.75	9	3,061.35
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,633.98	1/4	4,436.50	1/4	4,187.95	1/4	3,939.43	1/4	3,690.91	1/4	3,411.45	1/4	3,053.90
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,632.83	1/2	4,431.32	1/2	4,182.78	1/2	3,934.25	1/2	3,685.73	1/2	3,404.00	1/2	3,046.46
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,631.68	3/4	4,426.14	3/4	4,177.61	3/4	3,929.07	3/4	3,680.55	3/4	3,396.55	3/4	3,039.01
10		10		10		10	4,630.53	10	4,420.96	10	4,172.44	10	3,923.89	10	3,675.37	10	3,389.10	10	3,031.57
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,629.38	1/4	4,415.79	1/4	4,167.26	1/4	3,918.71	1/4	3,670.19	1/4	3,381.64	1/4	3,024.12
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,627.46	1/2	4,410.61	1/2	4,162.08	1/2	3,913.54	1/2	3,665.01	1/2	3,374.20	1/2	3,016.67
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,625.55	3/4	4,405.43	3/4	4,156.91	3/4	3,908.36	3/4	3,659.83	3/4	3,366.75	3/4	3,009.21
11		11		11		11	4,623.63	11	4,400.25	11	4,151.73	11	3,903.18	11	3,654.65	11	3,359.30	11	3,001.76
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,621.71	1/4	4,395.07	1/4	4,146.55	1/4	3,898.00	1/4	3,649.48	1/4	3,351.86	1/4	2,994.31
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,619.03	1/2	4,389.89	1/2	4,141.37	1/2	3,892.83	1/2	3,644.30	1/2	3,344.41	1/2	2,986.86
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,616.35	3/4	4,384.71	3/4	4,136.19	3/4	3,887.66	3/4	3,639.12	3/4	3,336.96	3/4	2,979.42

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 WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HFL 407"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,614.42	0	2,256.88	0	1,899.35	0	1,541.80	0	1,184.26	0	827.21	0	469.84	0	111.82	0		0	
1/4	2,606.98	1/4	2,249.43	1/4	1,891.90	1/4	1,534.36	1/4	1,176.81	1/4	819.79	1/4	462.38	1/4	104.36	1/4		1/4	
1/2	2,599.53	1/2	2,241.98	1/2	1,884.45	1/2	1,526.90	1/2	1,169.36	1/2	812.36	1/2	454.92	1/2	96.89	1/2		1/2	
3/4	2,592.08	3/4	2,234.54	3/4	1,877.00	3/4	1,519.45	3/4	1,161.92	3/4	804.93	3/4	447.46	3/4	89.43	3/4		3/4	
1	2,584.64	1	2,227.09	1	1,869.55	1	1,512.00	1	1,154.47	1	797.50	1	440.01	1	81.96	1		1	
1/4	2,577.19	1/4	2,219.64	1/4	1,862.10	1/4	1,504.55	1/4	1,147.02	1/4	790.07	1/4	432.55	1/4	74.50	1/4		1/4	
1/2	2,569.74	1/2	2,212.19	1/2	1,854.65	1/2	1,497.10	1/2	1,139.57	1/2	782.64	1/2	425.09	1/2	67.18	1/2		1/2	
3/4	2,562.29	3/4	2,204.74	3/4	1,847.20	3/4	1,489.65	3/4	1,132.12	3/4	775.21	3/4	417.63	3/4	59.86	3/4		3/4	
2	2,554.83	2	2,197.29	2	1,839.76	2	1,482.21	2	1,124.67	2	767.79	2	410.17	2	52.54	2		2	
1/4	2,547.38	1/4	2,189.83	1/4	1,832.31	1/4	1,474.76	1/4	1,117.21	1/4	760.36	1/4	402.71	1/4	45.21	1/4		1/4	
1/2	2,539.93	1/2	2,182.39	1/2	1,824.86	1/2	1,467.32	1/2	1,109.77	1/2	752.93	1/2	395.26	1/2	39.49	1/2		1/2	
3/4	2,532.49	3/4	2,174.94	3/4	1,817.40	3/4	1,459.87	3/4	1,102.32	3/4	745.50	3/4	387.80	3/4	33.76	3/4		3/4	
3	2,525.04	3	2,167.49	3	1,809.95	3	1,452.42	3	1,094.88	3	738.07	3	380.34	3	28.04	3		3	
1/4	2,517.60	1/4	2,160.05	1/4	1,802.50	1/4	1,444.98	1/4	1,087.43	1/4	730.64	1/4	372.88	1/4	22.30	1/4		1/4	
1/2	2,510.14	1/2	2,152.60	1/2	1,795.05	1/2	1,437.52	1/2	1,079.98	1/2	723.21	1/2	365.42	1/2		1/2		1/2	
3/4	2,502.69	3/4	2,145.15	3/4	1,787.61	3/4	1,430.07	3/4	1,072.52	3/4	715.79	3/4	357.96	3/4		3/4		3/4	
4	2,495.24	4	2,137.71	4	1,780.16	4	1,422.62	4	1,065.07	4	708.36	4	350.51	4	4	4		4	
1/4	2,487.79	1/4	2,130.26	1/4	1,772.71	1/4	1,415.17	1/4	1,057.62	1/4	700.93	1/4	343.05	1/4		1/4		1/4	
1/2	2,480.34	1/2	2,122.81	1/2	1,765.27	1/2	1,407.72	1/2	1,050.17	1/2	693.50	1/2	335.58	1/2		1/2		1/2	
3/4	2,472.89	3/4	2,115.36	3/4	1,757.82	3/4	1,400.27	3/4	1,042.73	3/4	686.07	3/4	328.12	3/4		3/4		3/4	
5	2,465.45	5	2,107.90	5	1,750.38	5	1,392.83	5	1,035.28	5	678.64	5	320.65	5	5	5		5	
1/4	2,458.00	1/4	2,100.45	1/4	1,742.93	1/4	1,385.38	1/4	1,027.83	1/4	671.21	1/4	313.19	1/4		1/4		1/4	
1/2	2,450.55	1/2	2,093.01	1/2	1,735.48	1/2	1,377.93	1/2	1,020.40	1/2	663.76	1/2	305.73	1/2		1/2		1/2	
3/4	2,443.11	3/4	2,085.56	3/4	1,728.02	3/4	1,370.48	3/4	1,012.96	3/4	656.31	3/4	298.27	3/4		3/4		3/4	
6	2,435.66	6	2,078.11	6	1,720.57	6	1,363.02	6	1,005.53	6	648.86	6	290.81	6	6	6		6	
1/4	2,428.21	1/4	2,070.67	1/4	1,713.12	1/4	1,355.57	1/4	998.10	1/4	641.40	1/4	283.36	1/4		1/4		1/4	
1/2	2,420.76	1/2	2,063.22	1/2	1,705.67	1/2	1,348.12	1/2	990.67	1/2	633.95	1/2	275.90	1/2		1/2		1/2	
3/4	2,413.31	3/4	2,055.77	3/4	1,698.23	3/4	1,340.68	3/4	983.24	3/4	626.49	3/4	268.44	3/4		3/4		3/4	
7	2,405.86	7	2,048.33	7	1,690.78	7	1,333.23	7	975.81	7	619.03	7	260.98	7	7	7		7	
1/4	2,398.40	1/4	2,040.88	1/4	1,683.33	1/4	1,325.79	1/4	968.38	1/4	611.57	1/4	253.52	1/4		1/4		1/4	
1/2	2,390.96	1/2	2,033.43	1/2	1,675.88	1/2	1,318.34	1/2	960.95	1/2	604.11	1/2	246.06	1/2		1/2		1/2	
3/4	2,383.51	3/4	2,025.98	3/4	1,668.43	3/4	1,310.89	3/4	953.52	3/4	596.64	3/4	238.61	3/4		3/4		3/4	
8	2,376.07	8	2,018.52	8	1,660.98	8	1,303.45	8	946.10	8	589.18	8	231.15	8	8	8		8	
1/4	2,368.62	1/4	2,011.07	1/4	1,653.52	1/4	1,296.00	1/4	938.67	1/4	581.71	1/4	223.69	1/4		1/4		1/4	
1/2	2,361.17	1/2	2,003.63	1/2	1,646.08	1/2	1,288.55	1/2	931.24	1/2	574.25	1/2	216.23	1/2		1/2		1/2	
3/4	2,353.71	3/4	1,996.18	3/4	1,638.63	3/4	1,281.10	3/4	923.81	3/4	566.80	3/4	208.77	3/4		3/4		3/4	
9	2,346.26	9	1,988.73	9	1,631.18	9	1,273.64	9	916.38	9	559.34	9	201.31	9	9	9		9	
1/4	2,338.81	1/4	1,981.29	1/4	1,623.74	1/4	1,266.19	1/4	908.95	1/4	551.88	1/4	193.86	1/4		1/4		1/4	
1/2	2,331.36	1/2	1,973.83	1/2	1,616.29	1/2	1,258.74	1/2	901.52	1/2	544.42	1/2	186.40	1/2		1/2		1/2	
3/4	2,323.92	3/4	1,966.38	3/4	1,608.85	3/4	1,251.30	3/4	894.10	3/4	536.96	3/4	178.94	3/4		3/4		3/4	
10	2,316.47	10	1,958.93	10	1,601.40	10	1,243.85	10	886.67	10	529.50	10	171.48	10	10	10		10	
1/4	2,309.02	1/4	1,951.48	1/4	1,593.95	1/4	1,236.40	1/4	879.24	1/4	522.05	1/4	164.02	1/4		1/4		1/4	
1/2	2,301.58	1/2	1,944.03	1/2	1,586.50	1/2	1,228.95	1/2	871.80	1/2	514.59	1/2	156.57	1/2		1/2		1/2	
3/4	2,294.13	3/4	1,936.58	3/4	1,579.05	3/4	1,221.50	3/4	864.37	3/4	507.13	3/4	149.11	3/4		3/4		3/4	
11	2,286.68	11	1,929.14	11	1,571.60	11	1,214.05	11	856.94	11	499.67	11	141.65	11	11	11		11	
1/4	2,279.24	1/4	1,921.69	1/4	1,564.14	1/4	1,206.60	1/4	849.50	1/4	492.21	1/4	134.19	1/4		1/4		1/4	
1/2	2,271.79	1/2	1,914.24	1/2	1,556.70	1/2	1,199.15	1/2	842.07	1/2	484.76	1/2	126.73	1/2		1/2		1/2	
3/4	2,264.33	3/4	1,906.80	3/4	1,549.25	3/4	1,191.70	3/4	834.64	3/4	477.30	3/4	119.27	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/10/2007 INSP.
DECK MEASUREMENTS: 12/13/2012 SW
PRINTED: 12/15/2012 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2012

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



BARGE "HFL 407"

PORT SLOP TANK

ULLAGE TABLE GAUGE HEIGHT 7'-06 1/4"

CAPACITIES GIVEN IN WHOLE GALLONS

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0		0		0		0	4,051	0	2,880	0	1,708	0	537	0		0	
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,027	1/4	2,855	1/4	1,684	1/4	513	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,002	1/2	2,831	1/2	1,659	1/2	488	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,149	3/4	3,978	3/4	2,807	3/4	1,635	3/4	3/4	3/4	3/4
1		1		1		1		1	5,125	1	3,953	1	2,782	1	1,611	1	439	1	1
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,100	1/4	3,929	1/4	2,758	1/4	1,586	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,076	1/2	3,904	1/2	2,733	1/2	1,562	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,052	3/4	3,880	3/4	2,709	3/4	1,538	3/4	3/4	3/4	3/4
2		2		2		2		2	5,027	2	3,856	2	2,685	2	1,513	2	342	2	2
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,003	1/4	3,831	1/4	2,660	1/4	1,489	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,978	1/2	3,807	1/2	2,636	1/2	1,464	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,954	3/4	3,783	3/4	2,612	3/4	1,440	3/4	3/4	3/4	3/4
3		3		3		3		3	4,930	3	3,758	3	2,587	3	1,416	3	244	3	3
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,905	1/4	3,734	1/4	2,563	1/4	1,391	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,881	1/2	3,709	1/2	2,538	1/2	1,367	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,857	3/4	3,685	3/4	2,514	3/4	1,343	3/4	3/4	3/4	3/4
4		4		4		4		4	4,832	4	3,661	4	2,489	4	1,318	4	147	4	4
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,808	1/4	3,636	1/4	2,465	1/4	1,294	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,783	1/2	3,612	1/2	2,440	1/2	1,269	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,759	3/4	3,588	3/4	2,416	3/4	1,245	3/4	3/4	3/4	3/4
5		5		5		5		5	4,734	5	3,563	5	2,392	5	1,220	5	49	5	5
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,710	1/4	3,539	1/4	2,367	1/4	1,196	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,685	1/2	3,514	1/2	2,343	1/2	1,171	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,661	3/4	3,490	3/4	2,319	3/4	1,147	3/4	3/4	3/4	3/4
6		6		6		6		6	4,637	6	3,465	6	2,294	6	1,123	6		6	6
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,612	1/4	3,441	1/4	2,270	1/4	1,098	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,588	1/2	3,416	1/2	2,245	1/2	1,074	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,564	3/4	3,392	3/4	2,221	3/4	1,050	3/4	3/4	3/4	3/4
7		7		7		7		7	4,539	7	3,368	7	2,196	7	1,025	7	7	7	7
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,515	1/4	3,343	1/4	2,172	1/4	1,001	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,490	1/2	3,319	1/2	2,147	1/2	976	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,466	3/4	3,295	3/4	2,123	3/4	952	3/4	3/4	3/4	3/4
8		8		8		8		8	4,442	8	3,270	8	2,099	8	928	8	8	8	8
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,417	1/4	3,246	1/4	2,074	1/4	903	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,393	1/2	3,221	1/2	2,050	1/2	879	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,369	3/4	3,197	3/4	2,026	3/4	855	3/4	3/4	3/4	3/4
9		9		9		9		9	4,344	9	3,173	9	2,001	9	830	9	9	9	9
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,320	1/4	3,148	1/4	1,977	1/4	806	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,295	1/2	3,124	1/2	1,952	1/2	781	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,271	3/4	3,100	3/4	1,928	3/4	757	3/4	3/4	3/4	3/4
10		10		10		10		10	4,246	10	3,075	10	1,904	10	732	10	10	10	10
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,222	1/4	3,051	1/4	1,879	1/4	708	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,197	1/2	3,026	1/2	1,855	1/2	683	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,173	3/4	3,002	3/4	1,831	3/4	659	3/4	3/4	3/4	3/4
11		11		11		11		11	4,149	11	2,977	11	1,806	11	635	11	11	11	11
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,124	1/4	2,953	1/4	1,782	1/4	610	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,100	1/2	2,928	1/2	1,757	1/2	586	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,076	3/4	2,904	3/4	1,733	3/4	562	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE IS SCALED FROM THE BOTTOM OF TANK
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH (HERMETIC) DEVICE.

STRAPPED: 12/10/2007 INSP
 DECK MEASUREMENTS: 12/13/2012 SW
 REPRINTED: 12/15/2012 SW

CANCELS AND SUPERCEDES
 ALL PRIOR TO 12/2012

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



BARGE "HFL 407"

**STBD
SLOP TANK**

**ULLAGE TABLE
GAUGE HEIGHT 7'-06 1/4"**

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	0	0	0	0	0	0	4,124	0	2,952	0	1,781	0	610	0		0	
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,100	1/4	2,928	1/4	1,757	1/4	586	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,075	1/2	2,904	1/2	1,732	1/2	561	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,051	3/4	2,879	3/4	1,708	3/4	537	3/4	3/4	3/4	3/4
1	1	1	1	1	1	1	1	1	4,026	1	2,855	1	1,683	1	512	1		1	
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,002	1/4	2,831	1/4	1,659	1/4	488	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,149	1/2	3,977	1/2	2,806	1/2	463	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,125	3/4	3,953	3/4	2,782	3/4	439	3/4	3/4	3/4	3/4
2	2	2	2	2	2	2	2	2	5,100	2	3,928	2	2,757	2	414	2		2	
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,076	1/4	3,904	1/4	2,733	1/4	390	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,051	1/2	3,880	1/2	2,709	1/2	366	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,027	3/4	3,855	3/4	2,684	3/4	341	3/4	3/4	3/4	3/4
3	3	3	3	3	3	3	3	3	5,002	3	3,831	3	2,660	3	317	3		3	
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,978	1/4	3,807	1/4	2,636	1/4	293	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,954	1/2	3,782	1/2	2,611	1/2	268	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,929	3/4	3,758	3/4	2,587	3/4	244	3/4	3/4	3/4	3/4
4	4	4	4	4	4	4	4	4	4,905	4	3,733	4	2,562	4	219	4		4	
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,881	1/4	3,709	1/4	2,538	1/4	195	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,856	1/2	3,685	1/2	2,513	1/2	171	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,832	3/4	3,660	3/4	2,489	3/4	146	3/4	3/4	3/4	3/4
5	5	5	5	5	5	5	5	5	4,807	5	3,636	5	2,464	5	122	5		5	
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,783	1/4	3,612	1/4	2,440	1/4	98	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,758	1/2	3,587	1/2	2,416	1/2	73	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,734	3/4	3,563	3/4	2,391	3/4	49	3/4	3/4	3/4	3/4
6	6	6	6	6	6	6	6	6	4,709	6	3,538	6	2,367	6	24	6		6	
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,685	1/4	3,514	1/4	2,343	1/4	0	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,661	1/2	3,489	1/2	2,318	1/2	1,147	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,636	3/4	3,465	3/4	2,294	3/4	1,122	3/4	3/4	3/4	3/4
7	7	7	7	7	7	7	7	7	4,612	7	3,440	7	2,269	7	1,098	7		7	
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,588	1/4	3,416	1/4	2,245	1/4	1,074	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,563	1/2	3,392	1/2	2,220	1/2	1,049	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,539	3/4	3,367	3/4	2,196	3/4	1,025	3/4	3/4	3/4	3/4
8	8	8	8	8	8	8	8	8	4,514	8	3,343	8	2,171	8	1,000	8		8	
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,490	1/4	3,319	1/4	2,147	1/4	976	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,466	1/2	3,294	1/2	2,123	1/2	952	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,441	3/4	3,270	3/4	2,098	3/4	927	3/4	3/4	3/4	3/4
9	9	9	9	9	9	9	9	9	4,417	9	3,245	9	2,074	9	903	9		9	
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,393	1/4	3,221	1/4	2,050	1/4	879	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,368	1/2	3,197	1/2	2,025	1/2	854	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,344	3/4	3,172	3/4	2,001	3/4	830	3/4	3/4	3/4	3/4
10	10	10	10	10	10	10	10	10	4,319	10	3,148	10	1,976	10	805	10		10	
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,295	1/4	3,124	1/4	1,952	1/4	781	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,270	1/2	3,099	1/2	1,928	1/2	756	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,246	3/4	3,075	3/4	1,903	3/4	732	3/4	3/4	3/4	3/4
11	11	11	11	11	11	11	11	11	4,221	11	3,050	11	1,879	11	707	11		11	
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,197	1/4	3,026	1/4	1,855	1/4	683	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,173	1/2	3,001	1/2	1,830	1/2	659	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,148	3/4	2,977	3/4	1,806	3/4	634	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE IS SCALED FROM THE BOTTOM OF TANK
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH (HERMETIC) DEVICE.

STRAPPED: 12/10/2007 INSP
DECK MEASUREMENTS: 12/13/2012 SW
REPRINTED: 12/15/2012 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2012

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