



BARGE "HFL 202S" INNAGE TRIM TABLE

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

1 CENTER	2 CENTER	3 CENTER							
00-0/8	00-1/4	00-1/8	00-1/8	00-1/4	00-1/2	00-3/8	00-5/8	00-7/8	00-1/8
- 00-0/8	- 00-1/4	- 00-1/8	- 00-1/8	- 00-3/4	- 00-5/8	- 00-3/8	- 00-5/8	- 00-7/8	- 01-0/8
<u>BOW STERN</u>	<u>BOW STERN</u>	<u>BOW STERN</u>	<u>BOW STERN</u>	<u>BOW STERN</u>	<u>BOW STERN</u>	<u>BOW STERN</u>	<u>BOW STERN</u>	<u>BOW STERN</u>	<u>BOW STERN</u>
1 FT.	2 FT.	3 FT.	4 FT.	5 FT.	6 FT.				

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 CENTER IS - 00-1/8"
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 1 CENTER, THE TRIM CORRECTED INNAGE IS 3'-11 7/8"

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

December 23, 2018

LENGTH BETWEEN DRAFT MARKS: 162'-06"



BARGE "HFL 202S"

1 CENTER INNAGE TABLE

IN	10 FT.	11 FT.	12 FT.	13 FT.	14 FT.	15 FT.	16 FT.	17 FT.	18 FT.	19 FT.
IN	2,706.13	2,979.52	3,224.37	3,444.69	3,665.02	3,885.35	4,105.68	4,326.01	4,546.34	4,766.67
1/4	2,711.82	2,985.23	3,228.96	3,449.28	3,669.61	3,889.94	4,110.27	4,330.60	4,550.93	4,771.26
1/2	2,717.51	2,990.93	3,233.55	3,453.87	3,674.20	3,894.53	4,114.86	4,335.19	4,555.52	4,775.85
3/4	2,723.20	2,996.64	3,238.14	3,458.46	3,678.79	3,899.12	4,119.45	4,339.78	4,560.11	4,780.44
1	2,728.89	3,002.34	3,242.73	3,463.05	3,683.38	3,903.71	4,124.04	4,344.37	4,564.70	4,785.03
1/4	2,734.58	3,007.95	3,247.32	3,467.64	3,687.97	3,908.30	4,128.63	4,348.96	4,569.29	4,790.62
1/2	2,740.27	3,013.75	3,251.91	3,472.23	3,692.56	3,912.89	4,133.22	4,353.55	4,573.88	4,796.21
3/4	2,745.96	3,019.46	3,256.50	3,476.82	3,697.14	3,917.48	4,137.81	4,358.14	4,578.47	4,801.80
2	2,751.65	3,025.16	3,261.09	3,481.41	3,701.73	3,922.06	4,142.40	4,362.73	4,583.06	4,807.39
1/4	2,757.34	3,030.87	3,265.68	3,485.90	3,706.32	3,926.65	4,146.99	4,367.32	4,587.65	4,812.98
1/2	2,763.03	3,036.57	3,270.27	3,490.59	3,710.90	3,931.24	4,151.58	4,371.91	4,592.24	4,818.57
3/4	2,768.73	3,042.27	3,274.86	3,495.18	3,715.48	3,935.83	4,156.17	4,376.50	4,596.83	4,824.16
3	2,774.42	3,047.98	3,279.45	3,499.77	3,720.06	3,940.42	4,160.76	4,381.09	4,601.42	4,829.75
1/4	2,780.11	3,053.68	3,284.04	3,504.36	3,724.62	3,944.96	4,165.35	4,385.68	4,606.01	4,835.34
1/2	2,785.80	3,059.39	3,288.63	3,508.95	3,729.18	3,949.55	4,169.94	4,390.27	4,610.60	4,840.93
3/4	2,791.49	3,065.09	3,293.22	3,513.54	3,733.74	3,954.14	4,174.53	4,394.86	4,615.19	4,846.52
4	2,797.18	3,070.80	3,297.81	3,518.13	3,738.30	3,958.73	4,179.12	4,400.00	4,620.78	4,852.11
1/4	2,802.87	3,076.50	3,302.40	3,522.72	3,742.88	3,963.32	4,183.71	4,404.59	4,625.37	4,857.70
1/2	2,808.56	3,082.21	3,306.99	3,527.31	3,746.47	3,967.91	4,188.30	4,409.18	4,630.96	4,863.29
3/4	2,814.25	3,087.91	3,311.58	3,531.90	3,750.06	3,972.50	4,192.89	4,413.77	4,635.55	4,868.88
5	2,819.94	3,093.61	3,316.17	3,536.49	3,754.65	3,977.09	4,197.48	4,418.36	4,640.14	4,874.47
1/4	2,825.63	3,099.76	3,320.76	3,541.08	3,758.24	3,981.68	4,202.07	4,422.95	4,644.73	4,880.06
1/2	2,831.32	3,103.91	3,325.35	3,545.68	3,761.14	3,986.27	4,206.66	4,427.54	4,649.32	4,885.65
3/4	2,837.01	3,109.06	3,329.94	3,550.27	3,764.38	3,990.86	4,211.25	4,432.13	4,653.91	4,891.24
6	2,842.70	3,114.21	3,334.53	3,554.86	3,767.53	3,995.45	4,215.84	4,436.72	4,658.50	4,896.83
1/4	2,848.39	3,118.80	3,339.12	3,559.45	3,769.53	3,999.04	4,220.43	4,441.31	4,663.09	4,902.42
1/2	2,854.08	3,123.39	3,343.71	3,564.04	3,771.43	4,003.63	4,225.02	4,445.90	4,667.68	4,908.01
3/4	2,859.77	3,127.98	3,348.30	3,568.63	3,773.33	4,007.22	4,229.61	4,450.49	4,672.27	4,913.60
7	2,865.46	3,132.57	3,352.89	3,573.22	3,775.24	4,011.81	4,234.20	4,455.08	4,676.86	4,919.19
1/4	2,871.16	3,137.16	3,357.48	3,577.81	3,776.19	4,015.40	4,238.79	4,459.67	4,681.45	4,924.78
1/2	2,876.86	3,141.75	3,362.07	3,582.40	3,777.14	4,019.00	4,243.38	4,464.26	4,686.04	4,930.37
3/4	2,882.55	3,146.34	3,366.66	3,586.99	3,778.09	4,022.59	4,247.97	4,468.85	4,690.63	4,935.96
8	2,888.25	3,150.93	3,371.25	3,591.58	3,779.04	4,026.18	4,252.56	4,473.44	4,695.22	4,941.55
1/4	2,893.96	3,155.52	3,375.84	3,596.17	3,780.00	4,029.77	4,257.15	4,478.03	4,699.81	4,947.14
1/2	2,899.66	3,160.11	3,380.43	3,600.76	3,780.95	4,033.36	4,261.74	4,482.62	4,704.40	4,952.73
3/4	2,905.37	3,164.70	3,385.02	3,605.35	3,781.90	4,036.95	4,266.33	4,487.21	4,708.99	4,958.32
9	2,911.07	3,169.29	3,389.61	3,609.94	3,782.85	4,040.54	4,270.92	4,491.80	4,713.58	4,963.91
1/4	2,916.78	3,173.88	3,394.20	3,614.53	3,783.80	4,044.13	4,275.51	4,496.39	4,718.17	4,969.50
1/2	2,922.48	3,178.47	3,398.79	3,619.12	3,784.75	4,047.72	4,280.10	4,500.98	4,722.76	4,975.09
3/4	2,928.18	3,183.06	3,403.38	3,623.71	3,785.70	4,051.31	4,284.69	4,505.57	4,727.35	4,980.68
10	2,933.89	3,187.65	3,407.97	3,628.30	3,786.65	4,054.90	4,289.28	4,510.16	4,731.94	4,986.27
1/4	2,939.59	3,192.24	3,412.56	3,632.89	3,787.60	4,058.49	4,293.87	4,514.75	4,736.53	4,991.86
1/2	2,945.30	3,196.83	3,417.15	3,637.48	3,788.55	4,062.08	4,298.46	4,519.34	4,741.12	4,997.45
3/4	2,951.00	3,201.42	3,421.74	3,642.07	3,789.50	4,065.67	4,303.05	4,523.93	4,745.71	5,003.04
11	2,956.71	3,206.01	3,426.33	3,646.66	3,790.45	4,069.26	4,307.64	4,528.52	4,750.30	5,008.63
1/4	2,962.41	3,210.60	3,430.92	3,651.25	3,791.40	4,072.85	4,312.23	4,533.11	4,754.89	5,014.22
1/2	2,968.12	3,215.19	3,435.51	3,655.84	3,792.35	4,076.44	4,316.82	4,537.70	4,759.48	5,019.81
3/4	2,973.82	3,219.78	3,440.10	3,660.43	3,793.30	4,080.03	4,321.41	4,542.29	4,764.07	5,025.40

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

GAUGE HEIGHT 15'-10 1/2"

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/19/2018 SW
 CALCULATED: 12/22/2018 CL
 PRINTED: 12/23/2018 CL
 CANCELS AND SUPERCEDES
 ALL PRIOR TO 12/2018

PRECISION MEASUREMENT
 & ANALYSIS, INC.
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BARGE "HFL 202S"

2 CENTER INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

IN	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	5 FT.	6 FT.	7 FT.	8 FT.	9 FT.
IN	0	0	0	0	0	0	0	0	0	0
1/4	4.08	233.50	482.17	726.50	973.11	1,221.79	1,470.46	1,719.14	1,967.82	2,216.50
1/2	5.81	238.68	487.35	731.52	978.29	1,226.97	1,475.65	1,724.32	1,973.00	2,221.68
3/4	7.53	243.86	492.53	736.53	983.47	1,232.15	1,480.83	1,729.50	1,978.18	2,226.86
1	9.26	249.04	497.71	741.55	988.65	1,237.33	1,486.01	1,734.69	1,983.36	2,232.04
1/4	12.71	254.23	502.89	746.57	993.83	1,242.51	1,491.19	1,739.87	1,988.54	2,237.22
1/2	16.17	259.41	508.07	751.59	999.01	1,247.69	1,496.37	1,745.05	1,993.73	2,242.40
3/4	19.62	264.59	513.25	756.61	1,004.19	1,252.87	1,501.55	1,750.23	1,998.91	2,247.58
1	23.07	269.77	518.43	761.63	1,009.37	1,258.05	1,506.73	1,755.41	2,004.09	2,252.77
1/4	27.80	274.95	523.61	766.65	1,014.55	1,263.23	1,511.91	1,760.59	2,009.27	2,257.95
1/2	32.52	280.13	528.79	771.67	1,019.74	1,268.41	1,517.09	1,765.77	2,014.45	2,263.13
3/4	37.25	285.31	533.97	776.70	1,024.92	1,273.59	1,522.27	1,770.95	2,019.63	2,268.31
1	41.97	290.49	539.15	781.72	1,030.10	1,278.78	1,527.45	1,776.13	2,024.81	2,273.49
1/4	47.12	295.67	544.33	786.83	1,035.28	1,283.96	1,532.63	1,781.31	2,029.99	2,278.67
1/2	52.28	300.85	549.51	791.93	1,040.46	1,289.14	1,537.82	1,786.49	2,035.17	2,283.85
3/4	57.43	306.03	554.69	797.04	1,045.64	1,294.32	1,543.00	1,791.67	2,040.35	2,289.03
1	62.58	311.21	559.87	802.14	1,050.82	1,299.50	1,548.18	1,796.86	2,045.53	2,294.21
1/4	67.75	316.39	565.06	807.32	1,056.00	1,304.68	1,553.36	1,802.04	2,050.71	2,299.39
1/2	72.93	321.57	570.24	812.50	1,061.18	1,309.86	1,558.54	1,807.22	2,055.90	2,304.57
3/4	78.10	326.75	575.42	817.68	1,066.36	1,315.04	1,563.72	1,812.40	2,061.08	2,309.75
1	83.27	331.93	580.60	822.86	1,071.54	1,320.22	1,568.90	1,817.58	2,066.26	2,314.94
1/4	88.45	337.11	585.70	828.05	1,076.72	1,325.40	1,574.08	1,822.76	2,071.44	2,320.12
1/2	93.63	342.29	590.81	833.23	1,081.90	1,330.58	1,579.26	1,827.94	2,076.62	2,325.30
3/4	98.81	347.47	595.91	838.41	1,087.09	1,335.76	1,584.44	1,833.12	2,081.80	2,330.48
1	103.99	352.65	601.02	843.59	1,092.27	1,340.94	1,589.62	1,838.30	2,086.98	2,335.66
1/4	109.17	357.84	606.04	848.77	1,097.45	1,346.13	1,594.80	1,843.48	2,092.16	2,340.84
1/2	114.35	363.02	611.07	853.95	1,102.63	1,351.31	1,599.98	1,848.66	2,097.34	2,346.02
3/4	119.53	368.20	616.09	859.13	1,107.81	1,356.49	1,605.17	1,853.84	2,102.52	2,351.20
1	124.71	373.38	621.12	864.31	1,112.99	1,361.67	1,610.35	1,859.02	2,107.70	2,356.38
1/4	129.89	378.56	626.13	869.49	1,118.17	1,366.85	1,615.53	1,864.21	2,112.88	2,361.56
1/2	135.07	383.74	631.15	874.67	1,123.35	1,372.03	1,620.71	1,869.39	2,118.06	2,366.74
3/4	140.25	388.92	636.17	879.85	1,128.53	1,377.21	1,625.89	1,874.57	2,123.25	2,371.92
1	145.43	394.10	641.19	885.03	1,133.71	1,382.39	1,631.07	1,879.75	2,128.43	2,377.10
1/4	150.62	399.28	646.21	890.21	1,138.89	1,387.57	1,636.25	1,884.93	2,133.61	2,382.29
1/2	155.80	404.46	651.23	895.40	1,144.07	1,392.75	1,641.43	1,890.11	2,138.79	2,387.47
3/4	160.98	409.64	656.24	900.58	1,149.26	1,397.93	1,646.61	1,895.29	2,143.97	2,392.65
1	166.16	414.82	661.26	905.76	1,154.44	1,403.11	1,651.79	1,900.47	2,149.15	2,397.83
1/4	171.34	420.00	666.28	910.94	1,159.62	1,408.30	1,656.97	1,905.65	2,154.33	2,403.01
1/2	176.52	425.18	671.30	916.12	1,164.80	1,413.48	1,662.15	1,910.83	2,159.51	2,408.19
3/4	181.70	430.36	676.32	921.30	1,169.98	1,418.66	1,667.34	1,916.01	2,164.69	2,413.37
1	186.88	435.54	681.33	926.48	1,175.16	1,423.84	1,672.52	1,921.19	2,169.87	2,418.55
1/4	192.06	440.72	686.35	931.66	1,180.34	1,429.02	1,677.70	1,926.38	2,175.05	2,423.73
1/2	197.24	445.90	691.37	936.84	1,185.52	1,434.20	1,682.88	1,931.56	2,180.23	2,428.91
3/4	202.42	451.08	696.39	942.02	1,190.70	1,439.38	1,688.06	1,936.74	2,185.42	2,434.09
1	207.60	456.26	701.41	947.20	1,195.88	1,444.56	1,693.24	1,941.92	2,190.60	2,439.27
1/4	212.78	461.45	706.43	952.38	1,201.06	1,449.74	1,698.42	1,947.10	2,195.78	2,444.44
1/2	217.96	466.63	711.44	957.57	1,206.24	1,454.92	1,703.60	1,952.28	2,200.96	2,449.64
3/4	223.14	471.81	716.46	962.75	1,211.42	1,460.10	1,708.78	1,957.46	2,206.14	2,454.82

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 TAKEN TO TOP OF 2" DIAMETER "HERMETIC" VALVE GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 29'-06" FORWARD OF AFT BULKHEAD

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.



BARGE "HFL 202S"

2 CENTER INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

IN	11 FT.	12 FT.	13 FT.	14 FT.	15 FT.	16 FT.	17 FT.	18 FT.	19 FT.
0	2,708.68	2,713.86	2,962.54	3,211.21	3,459.89	3,454.71	0	0	0
1/4	2,465.18	2,470.36	2,967.72	3,216.39	3,465.07	3,470.25	1/4	1/4	1/4
3/4	2,460.00	2,475.54	2,972.90	3,221.58	3,470.25	3,475.43	3/4	3/4	3/4
1	2,480.72	2,499.40	2,978.08	3,226.76	3,475.43	3,480.61	1	1	1
1/4	2,485.90	2,498.08	2,983.26	3,231.94	3,480.61	3,485.79	1/4	1/4	1/4
3/4	2,491.08	2,499.26	2,988.44	3,237.12	3,485.79	3,490.96	3/4	3/4	3/4
2	2,501.44	2,506.12	2,998.80	3,247.48	3,496.14	3,501.31	2	2	2
1/4	2,506.62	2,509.38	3,003.98	3,252.66	3,501.31	3,506.48	1/4	1/4	1/4
3/4	2,511.81	2,514.88	3,009.16	3,257.84	3,506.48	3,511.66	3/4	3/4	3/4
3	2,522.17	2,522.85	3,019.52	3,268.20	3,516.83	3,521.98	3	3	3
1/4	2,527.35	2,527.01	3,024.70	3,273.38	3,521.98	3,527.13	1/4	1/4	1/4
3/4	2,532.53	2,531.71	3,029.89	3,278.56	3,527.13	3,532.29	3/4	3/4	3/4
4	2,542.89	2,542.89	3,040.25	3,288.93	3,537.44	3,542.16	4	4	4
1/4	2,548.07	2,548.07	3,045.43	3,294.11	3,542.16	3,546.89	1/4	1/4	1/4
3/4	2,553.25	2,553.25	3,050.61	3,299.29	3,546.89	3,551.62	3/4	3/4	3/4
5	2,563.61	2,563.61	3,060.97	3,309.65	3,556.34	3,561.06	5	5	5
1/4	2,568.79	2,568.79	3,066.15	3,314.83	3,561.06	3,565.79	1/4	1/4	1/4
3/4	2,573.98	2,573.98	3,071.33	3,320.01	3,565.79	3,570.15	3/4	3/4	3/4
6	2,584.34	2,584.34	3,081.69	3,330.37	3,570.15	3,574.53	6	6	6
1/4	2,589.52	2,589.52	3,086.87	3,335.55	3,574.53	3,578.79	1/4	1/4	1/4
3/4	2,594.70	2,594.70	3,092.06	3,340.73	3,578.79	3,583.05	3/4	3/4	3/4
7	2,605.06	2,605.06	3,102.42	3,351.10	3,583.05	3,587.31	7	7	7
1/4	2,610.24	2,610.24	3,107.60	3,356.28	3,587.31	3,591.57	1/4	1/4	1/4
3/4	2,615.42	2,615.42	3,112.78	3,361.46	3,591.57	3,595.83	3/4	3/4	3/4
8	2,625.78	2,625.78	3,123.14	3,371.82	3,595.83	3,599.99	8	8	8
1/4	2,630.96	2,630.96	3,128.32	3,377.00	3,599.99	3,604.15	1/4	1/4	1/4
3/4	2,636.14	2,636.14	3,133.50	3,382.18	3,604.15	3,608.31	3/4	3/4	3/4
9	2,646.51	2,646.51	3,143.86	3,392.54	3,608.31	3,612.47	9	9	9
1/4	2,651.69	2,651.69	3,149.04	3,397.72	3,612.47	3,616.63	1/4	1/4	1/4
3/4	2,656.87	2,656.87	3,154.22	3,402.90	3,616.63	3,620.79	3/4	3/4	3/4
10	2,667.23	2,667.23	3,164.59	3,413.26	3,620.79	3,624.95	10	10	10
1/4	2,672.41	2,672.41	3,169.77	3,418.45	3,624.95	3,629.11	1/4	1/4	1/4
3/4	2,677.59	2,677.59	3,174.95	3,423.63	3,629.11	3,633.27	3/4	3/4	3/4
11	2,687.95	2,687.95	3,185.31	3,433.99	3,633.27	3,637.43	11	11	11
1/4	2,693.13	2,693.13	3,190.49	3,439.17	3,637.43	3,641.59	1/4	1/4	1/4
3/4	2,698.31	2,698.31	3,195.67	3,444.35	3,641.59	3,645.75	3/4	3/4	3/4
12	2,703.50	2,703.50	3,200.85	3,449.53	3,645.75	3,649.91	12	12	12

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/19/2018 SW
 CALCULATED: 12/22/2018 CL
 PRINTED: 12/23/2018 CL
 CANCELS AND SUPERCEDES
 ALL PRIOR TO 12/2018

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77588
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BARGE "HFL 202S"

3 CENTER INNAGE TABLE

IN	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	5 FT.	6 FT.	7 FT.	8 FT.	9 FT.
IN	0	0	0	0	0	0	0	0	0	0
1/4	4.05	231.80	478.66	725.06	971.73	1,218.59	1,465.46	1,712.32	1,959.19	2,206.05
1/2	5.77	236.95	483.80	730.19	976.87	1,223.74	1,470.60	1,717.46	1,964.33	2,211.19
3/4	7.48	242.09	488.94	735.31	982.02	1,228.88	1,475.74	1,722.61	1,969.47	2,216.34
1	9.20	247.23	494.09	740.43	987.16	1,234.02	1,480.89	1,727.75	1,974.61	2,221.48
1/4	12.62	252.38	499.23	745.56	992.30	1,239.17	1,486.03	1,732.89	1,979.76	2,226.62
1/2	16.05	257.52	504.37	750.68	997.44	1,244.31	1,491.17	1,738.04	1,984.90	2,231.76
3/4	19.48	262.66	509.52	755.81	1,002.59	1,249.45	1,496.32	1,743.18	1,990.04	2,236.91
2	22.90	267.80	514.66	760.93	1,007.73	1,254.59	1,501.46	1,748.32	1,995.19	2,242.05
1/4	27.60	272.95	519.80	766.06	1,012.87	1,259.74	1,506.60	1,753.47	1,999.33	2,247.19
1/2	32.29	278.09	524.94	771.19	1,018.02	1,264.88	1,511.74	1,758.61	2,005.47	2,252.34
3/4	36.98	283.23	530.09	776.32	1,023.16	1,270.02	1,516.89	1,763.75	2,010.62	2,257.48
3	41.67	288.38	535.23	781.45	1,028.30	1,275.17	1,522.03	1,768.89	2,015.76	2,262.62
1/4	46.78	293.52	540.37	786.59	1,033.45	1,280.31	1,527.17	1,774.04	2,020.90	2,267.77
1/2	51.90	298.66	545.52	791.73	1,038.59	1,285.45	1,532.32	1,779.18	2,026.04	2,272.91
3/4	57.01	303.80	550.66	796.87	1,043.73	1,290.60	1,537.46	1,784.32	2,031.19	2,278.05
4	62.12	308.95	555.80	802.01	1,048.87	1,295.74	1,542.60	1,789.47	2,036.33	2,283.19
1/4	67.26	314.09	560.94	807.15	1,054.02	1,300.88	1,547.75	1,794.61	2,041.47	2,288.34
1/2	72.40	319.23	566.09	812.30	1,059.16	1,306.02	1,552.89	1,799.75	2,046.62	2,293.48
3/4	77.53	324.38	571.23	817.44	1,064.30	1,311.17	1,558.03	1,804.90	2,051.76	2,298.62
5	82.67	329.52	576.37	822.58	1,069.45	1,316.31	1,563.17	1,810.04	2,056.90	2,303.77
1/4	87.81	334.66	581.51	827.73	1,074.59	1,321.45	1,568.32	1,815.18	2,062.05	2,308.91
1/2	92.95	339.80	586.65	832.87	1,079.73	1,326.60	1,573.46	1,820.32	2,067.19	2,314.05
3/4	98.09	344.95	591.79	838.01	1,084.88	1,331.74	1,578.60	1,825.47	2,072.33	2,319.20
6	103.23	350.09	596.93	843.15	1,090.02	1,336.88	1,583.75	1,830.61	2,077.47	2,324.34
1/4	108.38	355.23	602.06	848.30	1,095.16	1,342.03	1,588.89	1,835.75	2,082.62	2,329.48
1/2	113.52	360.37	607.19	853.44	1,100.30	1,347.17	1,594.03	1,840.90	2,087.76	2,334.62
3/4	118.66	365.52	612.32	858.58	1,105.45	1,352.31	1,599.18	1,846.04	2,092.90	2,339.77
7	123.81	370.66	617.45	863.73	1,110.59	1,357.45	1,604.32	1,851.18	2,098.05	2,344.91
1/4	128.95	375.80	622.57	868.87	1,115.73	1,362.60	1,609.46	1,856.33	2,103.19	2,350.05
1/2	134.09	380.95	627.70	874.01	1,120.88	1,367.74	1,614.60	1,861.47	2,108.33	2,355.20
3/4	139.23	386.09	632.82	879.16	1,126.02	1,372.88	1,619.75	1,866.61	2,113.48	2,360.34
8	144.38	391.23	637.94	884.30	1,131.16	1,378.03	1,624.89	1,871.75	2,118.62	2,365.48
1/4	149.52	396.37	643.07	889.44	1,136.31	1,383.17	1,630.03	1,876.90	2,123.76	2,370.63
1/2	154.66	401.52	648.19	894.58	1,141.45	1,388.31	1,635.18	1,882.04	2,128.90	2,375.77
3/4	159.81	406.66	653.32	899.73	1,146.59	1,393.46	1,640.32	1,887.18	2,134.05	2,380.91
9	164.95	411.80	658.44	904.87	1,151.73	1,398.60	1,645.46	1,892.33	2,139.19	2,386.05
1/4	170.09	416.95	663.57	910.01	1,156.88	1,403.74	1,650.61	1,897.47	2,144.33	2,391.20
1/2	175.23	422.09	668.69	915.16	1,162.02	1,408.88	1,655.75	1,902.61	2,149.48	2,396.34
3/4	180.38	427.23	673.82	920.30	1,167.16	1,414.03	1,660.89	1,907.76	2,154.62	2,401.48
10	185.52	432.37	678.94	925.44	1,172.31	1,419.17	1,666.03	1,912.90	2,159.76	2,406.63
1/4	190.66	437.52	684.07	930.59	1,177.45	1,424.31	1,671.18	1,918.04	2,164.91	2,411.77
1/2	195.81	442.66	689.19	935.73	1,182.59	1,429.46	1,676.32	1,923.18	2,170.05	2,416.91
3/4	200.95	447.80	694.31	940.87	1,187.74	1,434.60	1,681.46	1,928.33	2,175.19	2,422.06
11	206.09	452.95	699.44	946.01	1,192.88	1,439.74	1,686.61	1,933.47	2,180.33	2,427.20
1/4	211.23	458.09	704.56	951.16	1,198.02	1,444.89	1,691.75	1,938.61	2,185.48	2,432.34
1/2	216.38	463.23	709.69	956.30	1,203.16	1,450.03	1,696.89	1,943.76	2,190.62	2,437.48
3/4	221.52	468.37	714.81	961.44	1,208.31	1,455.17	1,702.04	1,948.90	2,195.76	2,442.63

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 TAKEN TO TOP OF 2" DIAMETER "HERMETIC" VALVE

GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 29'-00" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
& ANALYSIS, INC.
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Pearland, Texas 77588
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CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.



BARGE "HFL 202S"

3 CENTER INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

IN	10 FT.	11 FT.	12 FT.	13 FT.	14 FT.	15 FT.	16 FT.	17 FT.	18 FT.	19 FT.
IN	0	2,447.77	2,694.63	2,941.50	3,188.36	3,435.23	0	0	0	0
1/4	1/4	2,452.91	2,699.78	2,946.64	3,193.51	3,440.37	1/4	1/4	1/4	1/4
1/2	1/2	2,458.06	2,704.92	2,951.78	3,198.65	3,445.51	1/2	1/2	1/2	1/2
3/4	3/4	2,463.20	2,710.06	2,956.93	3,203.79	3,450.66	3/4	3/4	3/4	3/4
1	1	2,468.34	2,715.21	2,962.07	3,208.93	3,455.80	1	1	1	1
1/4	1/4	2,473.49	2,720.35	2,967.21	3,214.08	3,460.94	1/4	1/4	1/4	1/4
1/2	1/2	2,478.63	2,725.49	2,972.36	3,219.22	3,466.08	1/2	1/2	1/2	1/2
3/4	3/4	2,483.77	2,730.64	2,977.50	3,224.36	3,471.22	3/4	3/4	3/4	3/4
2	2	2,488.91	2,735.78	2,982.64	3,229.51	3,476.36	2	2	2	2
1/4	1/4	2,494.06	2,740.92	2,987.79	3,234.65	3,481.50	1/4	1/4	1/4	1/4
1/2	1/2	2,499.20	2,746.06	2,992.93	3,239.79	3,486.63	1/2	1/2	1/2	1/2
3/4	3/4	2,504.34	2,751.21	2,998.07	3,244.94	3,491.77	3/4	3/4	3/4	3/4
3	3	2,509.49	2,756.35	3,003.21	3,250.08	3,496.90	3	3	3	3
1/4	1/4	2,514.63	2,761.49	3,008.36	3,255.22	3,502.02	1/4	1/4	1/4	1/4
1/2	1/2	2,519.77	2,766.64	3,013.50	3,260.36	3,507.13	1/2	1/2	1/2	1/2
3/4	3/4	2,524.92	2,771.78	3,018.64	3,265.51	3,512.25	3/4	3/4	3/4	3/4
4	4	2,530.06	2,776.92	3,023.79	3,270.65	3,517.36	4	4	4	4
1/4	1/4	2,535.20	2,782.07	3,028.93	3,275.79	3,522.05	1/4	1/4	1/4	1/4
1/2	1/2	2,540.34	2,787.21	3,034.07	3,280.94	3,526.74	1/2	1/2	1/2	1/2
3/4	3/4	2,545.49	2,792.35	3,039.22	3,286.08	3,531.44	3/4	3/4	3/4	3/4
5	5	2,550.63	2,797.49	3,044.36	3,291.22	3,536.13	5	5	5	5
1/4	1/4	2,555.77	2,802.64	3,049.50	3,296.37	3,539.55	1/4	1/4	1/4	1/4
1/2	1/2	2,560.92	2,807.78	3,054.64	3,301.51	3,542.98	1/2	1/2	1/2	1/2
3/4	3/4	2,566.06	2,812.92	3,059.79	3,306.65	3,546.41	3/4	3/4	3/4	3/4
6	6	2,571.20	2,818.07	3,064.93	3,311.79	3,549.84	6	6	6	6
1/4	1/4	2,576.35	2,823.21	3,070.07	3,316.94	3,551.55	1/4	1/4	1/4	1/4
1/2	1/2	2,581.49	2,828.35	3,075.22	3,322.08	3,553.26	1/2	1/2	1/2	1/2
3/4	3/4	2,586.63	2,833.50	3,080.36	3,327.22	3,554.98	3/4	3/4	3/4	3/4
7	7	2,591.77	2,838.64	3,085.50	3,332.37	3,556.69	7	7	7	7
1/4	1/4	2,596.92	2,843.78	3,090.65	3,337.51	3,557.55	1/4	1/4	1/4	1/4
1/2	1/2	2,602.06	2,848.92	3,095.79	3,342.65	3,558.41	1/2	1/2	1/2	1/2
3/4	3/4	2,607.20	2,854.07	3,100.93	3,347.80	3,559.27	3/4	3/4	3/4	3/4
8	8	2,612.35	2,859.21	3,106.07	3,352.94	3,560.13	8	8	8	8
1/4	1/4	2,617.49	2,864.35	3,111.22	3,358.08	3,561.00	1/4	1/4	1/4	1/4
1/2	1/2	2,622.63	2,869.50	3,116.36	3,363.22	3,561.87	1/2	1/2	1/2	1/2
3/4	3/4	2,627.78	2,874.64	3,121.50	3,368.37	3,562.74	3/4	3/4	3/4	3/4
9	9	2,632.92	2,879.78	3,126.65	3,373.51	3,563.61	9	9	9	9
1/4	1/4	2,638.06	2,884.93	3,131.79	3,378.65	3,564.48	1/4	1/4	1/4	1/4
1/2	1/2	2,643.20	2,890.07	3,136.93	3,383.80	3,565.35	1/2	1/2	1/2	1/2
3/4	3/4	2,648.35	2,895.21	3,142.08	3,388.94	3,566.22	3/4	3/4	3/4	3/4
10	10	2,653.49	2,900.35	3,147.22	3,394.08	3,567.09	10	10	10	10
1/4	1/4	2,658.63	2,905.50	3,152.36	3,399.23	3,567.96	1/4	1/4	1/4	1/4
1/2	1/2	2,663.78	2,910.64	3,157.50	3,404.37	3,568.83	1/2	1/2	1/2	1/2
3/4	3/4	2,668.92	2,915.78	3,162.65	3,409.51	3,569.70	3/4	3/4	3/4	3/4
11	11	2,674.06	2,920.93	3,167.79	3,414.65	3,570.57	11	11	11	11
1/4	1/4	2,679.21	2,926.07	3,172.93	3,419.80	3,571.44	1/4	1/4	1/4	1/4
1/2	1/2	2,684.35	2,931.21	3,178.08	3,424.94	3,572.31	1/2	1/2	1/2	1/2
3/4	3/4	2,689.49	2,936.36	3,183.22	3,430.08	3,573.18	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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BARGE "HFL 202S"

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

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

LENGTH BETWEEN DRAFT MARKS: 162'-06"

December 23, 2018

PRECISION MEASUREMENT
& ANALYSIS, INC.

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Pearland, Texas 77588

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BARGE "HFL 202S"

1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

GAUGE HEIGHT 15'-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	3,637.48	0	3,417.15	0	3,196.83	0	2,945.30	0	2,671.99	0	2,398.86	0	2,125.92	0	1,853.12
1/4	1/4	1/4	1/4	1/4	3,632.89	1/4	3,412.56	1/4	3,192.24	1/4	2,939.59	1/4	2,666.30	1/4	2,393.17	1/4	2,120.24	1/4	1,847.43
1/2	1/2	1/2	1/2	1/2	3,628.30	1/2	3,407.97	1/2	3,187.65	1/2	2,933.89	1/2	2,660.61	1/2	2,387.48	1/2	2,114.56	1/2	1,841.75
3/4	3/4	3/4	3/4	3/4	3,623.71	3/4	3,403.38	3/4	3,183.06	3/4	2,928.18	3/4	2,654.92	3/4	2,381.79	3/4	2,108.87	3/4	1,836.06
1	1	1	1	1	3,619.12	1	3,398.79	1	3,178.47	1	2,922.48	1	2,649.23	1	2,376.10	1	2,103.19	1	1,830.37
1/4	1/4	1/4	1/4	1/4	3,614.53	1/4	3,394.20	1/4	3,173.88	1/4	2,916.78	1/4	2,643.54	1/4	2,370.41	1/4	2,097.51	1/4	1,824.69
1/2	1/2	1/2	1/2	1/2	3,609.94	1/2	3,389.61	1/2	3,169.29	1/2	2,911.07	1/2	2,637.85	1/2	2,364.72	1/2	2,091.83	1/2	1,819.00
3/4	3/4	3/4	3/4	3/4	3,605.35	3/4	3,385.02	3/4	3,164.70	3/4	2,905.37	3/4	2,632.16	3/4	2,359.03	3/4	2,086.15	3/4	1,813.31
2	2	2	2	2	3,600.76	2	3,380.43	2	3,160.11	2	2,899.66	2	2,626.47	2	2,353.34	2	2,080.47	2	1,807.63
1/4	1/4	1/4	1/4	1/4	3,596.17	1/4	3,375.84	1/4	3,155.52	1/4	2,893.96	1/4	2,620.78	1/4	2,347.66	1/4	2,074.79	1/4	1,801.94
1/2	1/2	1/2	1/2	1/2	3,591.58	1/2	3,371.25	1/2	3,150.93	1/2	2,888.25	1/2	2,615.09	1/2	2,341.97	1/2	2,069.11	1/2	1,796.25
3/4	3/4	3/4	3/4	3/4	3,586.99	3/4	3,366.66	3/4	3,146.34	3/4	2,882.55	3/4	2,609.40	3/4	2,336.28	3/4	2,063.42	3/4	1,790.57
3	3	3	3	3	3,582.40	3	3,362.07	3	3,141.75	3	2,876.86	3	2,603.71	3	2,330.59	3	2,057.74	3	1,784.88
1/4	1/4	1/4	1/4	1/4	3,577.81	1/4	3,357.48	1/4	3,137.16	1/4	2,871.16	1/4	2,598.02	1/4	2,324.91	1/4	2,052.06	1/4	1,779.19
1/2	1/2	1/2	1/2	1/2	3,573.22	1/2	3,352.89	1/2	3,132.57	1/2	2,865.46	1/2	2,592.33	1/2	2,319.22	1/2	2,046.38	1/2	1,773.51
3/4	3/4	3/4	3/4	3/4	3,568.63	3/4	3,348.30	3/4	3,127.98	3/4	2,859.77	3/4	2,586.64	3/4	2,313.53	3/4	2,040.70	3/4	1,767.82
4	4	4	4	4	3,564.04	4	3,343.71	4	3,123.39	4	2,854.08	4	2,580.95	4	2,307.85	4	2,035.02	4	1,762.14
1/4	1/4	1/4	1/4	1/4	3,559.45	1/4	3,339.12	1/4	3,118.80	1/4	2,848.39	1/4	2,575.26	1/4	2,302.16	1/4	2,029.34	1/4	1,756.45
1/2	1/2	1/2	1/2	1/2	3,554.86	1/2	3,334.53	1/2	3,114.21	1/2	2,842.70	1/2	2,569.57	1/2	2,296.47	1/2	2,023.66	1/2	1,750.76
3/4	3/4	3/4	3/4	3/4	3,550.27	3/4	3,329.94	3/4	3,109.06	3/4	2,837.01	3/4	2,563.88	3/4	2,290.79	3/4	2,017.97	3/4	1,745.08
5	5	5	5	5	3,545.68	5	3,325.35	5	3,103.91	5	2,831.32	5	2,558.19	5	2,285.10	5	2,012.29	5	1,739.39
1/4	1/4	1/4	1/4	1/4	3,541.08	1/4	3,320.76	1/4	3,098.76	1/4	2,825.63	1/4	2,552.50	1/4	2,279.41	1/4	2,006.61	1/4	1,733.70
1/2	1/2	1/2	1/2	1/2	3,536.49	1/2	3,316.17	1/2	3,093.61	1/2	2,819.94	1/2	2,546.81	1/2	2,273.73	1/2	2,000.93	1/2	1,728.02
3/4	3/4	3/4	3/4	3/4	3,531.90	3/4	3,311.58	3/4	3,087.91	3/4	2,814.25	3/4	2,541.12	3/4	2,268.04	3/4	1,995.25	3/4	1,722.33
6	6	6	6	6	3,527.31	6	3,306.99	6	3,082.21	6	2,808.56	6	2,535.43	6	2,262.35	6	1,989.57	6	1,716.64
1/4	1/4	1/4	1/4	1/4	3,522.72	1/4	3,302.40	1/4	3,076.50	1/4	2,802.87	1/4	2,529.74	1/4	2,256.67	1/4	1,983.89	1/4	1,710.96
1/2	1/2	1/2	1/2	1/2	3,518.13	1/2	3,297.81	1/2	3,070.80	1/2	2,797.18	1/2	2,524.05	1/2	2,250.98	1/2	1,978.20	1/2	1,705.27
3/4	3/4	3/4	3/4	3/4	3,513.54	3/4	3,293.22	3/4	3,065.09	3/4	2,791.49	3/4	2,518.36	3/4	2,245.29	3/4	1,972.52	3/4	1,699.58
7	7	7	7	7	3,508.95	7	3,288.63	7	3,059.39	7	2,785.80	7	2,512.67	7	2,239.61	7	1,966.84	7	1,693.90
1/4	1/4	1/4	1/4	1/4	3,504.36	1/4	3,284.04	1/4	3,053.68	1/4	2,780.11	1/4	2,506.98	1/4	2,233.92	1/4	1,961.16	1/4	1,688.21
1/2	1/2	1/2	1/2	1/2	3,499.77	1/2	3,279.45	1/2	3,047.98	1/2	2,774.42	1/2	2,501.29	1/2	2,228.23	1/2	1,955.48	1/2	1,682.52
3/4	3/4	3/4	3/4	3/4	3,495.18	3/4	3,274.86	3/4	3,042.27	3/4	2,768.73	3/4	2,495.60	3/4	2,222.54	3/4	1,949.79	3/4	1,676.84
8	8	8	8	8	3,490.59	8	3,270.27	8	3,036.57	8	2,763.03	8	2,489.91	8	2,216.86	8	1,944.10	8	1,671.15
1/4	1/4	1/4	1/4	1/4	3,486.00	1/4	3,265.68	1/4	3,030.87	1/4	2,757.34	1/4	2,484.22	1/4	2,211.17	1/4	1,938.42	1/4	1,665.46
1/2	1/2	1/2	1/2	1/2	3,481.41	1/2	3,261.09	1/2	3,025.16	1/2	2,751.65	1/2	2,478.52	1/2	2,205.48	1/2	1,932.73	1/2	1,659.78
3/4	3/4	3/4	3/4	3/4	3,476.82	3/4	3,256.50	3/4	3,019.46	3/4	2,745.96	3/4	2,472.83	3/4	2,199.79	3/4	1,927.04	3/4	1,654.09
9	9	9	9	9	3,472.23	9	3,251.91	9	3,013.75	9	2,740.27	9	2,467.14	9	2,194.10	9	1,921.36	9	1,648.41
1/4	1/4	1/4	1/4	1/4	3,467.64	1/4	3,247.32	1/4	3,008.05	1/4	2,734.58	1/4	2,461.45	1/4	2,188.42	1/4	1,915.67	1/4	1,642.72
1/2	1/2	1/2	1/2	1/2	3,463.05	1/2	3,242.73	1/2	3,002.34	1/2	2,728.89	1/2	2,455.76	1/2	2,182.73	1/2	1,909.98	1/2	1,637.03
3/4	3/4	3/4	3/4	3/4	3,458.46	3/4	3,238.14	3/4	2,996.64	3/4	2,723.20	3/4	2,450.07	3/4	2,177.05	3/4	1,904.30	3/4	1,631.35
10	10	10	10	10	3,453.87	10	3,233.55	10	2,990.93	10	2,717.51	10	2,444.38	10	2,171.37	10	1,898.61	10	1,625.66
1/4	1/4	1/4	1/4	1/4	3,449.28	1/4	3,228.96	1/4	2,985.23	1/4	2,711.82	1/4	2,438.69	1/4	2,165.69	1/4	1,892.92	1/4	1,619.97
1/2	1/2	1/2	1/2	1/2	3,444.69	1/2	3,224.37	1/2	2,979.52	1/2	2,706.13	1/2	2,433.00	1/2	2,160.01	1/2	1,887.24	1/2	1,614.29
3/4	3/4	3/4	3/4	3/4	3,440.10	3/4	3,219.78	3/4	2,973.82	3/4	2,700.44	3/4	2,427.31	3/4	2,154.33	3/4	1,881.55	3/4	1,608.60
11	11	11	11	11	3,435.51	11	3,215.19	11	2,968.12	11	2,694.75	11	2,421.62	11	2,148.64	11	1,875.87	11	1,602.91
1/4	1/4	1/4	1/4	1/4	3,430.92	1/4	3,210.60	1/4	2,962.41	1/4	2,689.06	1/4	2,415.93	1/4	2,142.96	1/4	1,870.18	1/4	1,597.23
1/2	1/2	1/2	1/2	1/2	3,426.33	1/2	3,206.01	1/2	2,956.71	1/2	2,683.37	1/2	2,410.24	1/2	2,137.28	1/2	1,864.49	1/2	1,591.54
3/4	3/4	3/4	3/4	3/4	3,421.74	3/4	3,201.42	3/4	2,951.00	3/4	2,677.68	3/4	2,404.55	3/4	2,131.60	3/4	1,858.81	3/4	1,585.85

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" DIAMETER "HERMETIC" VALVE
 GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 29'-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 202S"

1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

GAUGE HEIGHT 15'-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	1,580.17	0	1,307.22	0	1,034.26	0	764.85	0	495.62	0	221.82	0		0					
1/4	1,574.48	1/4	1,301.53	1/4	1,028.58	1/4	759.36	1/4	489.92	1/4	216.12	1/4		1/4					
1/2	1,568.79	1/2	1,295.84	1/2	1,022.89	1/2	753.87	1/2	484.21	1/2	210.42	1/2		1/2					
3/4	1,563.11	3/4	1,290.16	3/4	1,017.20	3/4	748.38	3/4	478.51	3/4	204.71	3/4		3/4					
1	1,557.42	1	1,284.47	1	1,011.52	1	742.89	1	472.80	1	199.01	1		1					
1/4	1,551.73	1/4	1,278.78	1/4	1,005.83	1/4	737.41	1/4	467.10	1/4	193.30	1/4		1/4					
1/2	1,546.05	1/2	1,273.10	1/2	1,000.14	1/2	731.92	1/2	461.40	1/2	187.60	1/2		1/2					
3/4	1,540.36	3/4	1,267.41	3/4	994.46	3/4	726.43	3/4	455.69	3/4	181.90	3/4		3/4					
2	1,534.68	2	1,261.72	2	988.77	2	720.94	2	449.99	2	176.19	2		2					
1/4	1,528.99	1/4	1,256.04	1/4	983.08	1/4	715.45	1/4	444.28	1/4	170.49	1/4		1/4					
1/2	1,523.30	1/2	1,250.35	1/2	977.40	1/2	709.96	1/2	438.58	1/2	164.78	1/2		1/2					
3/4	1,517.62	3/4	1,244.66	3/4	971.71	3/4	704.48	3/4	432.88	3/4	159.08	3/4		3/4					
3	1,511.93	3	1,238.98	3	966.03	3	698.99	3	427.17	3	153.37	3		3					
1/4	1,506.24	1/4	1,233.29	1/4	960.34	1/4	693.50	1/4	421.47	1/4	147.67	1/4		1/4					
1/2	1,500.56	1/2	1,227.60	1/2	954.65	1/2	688.01	1/2	415.76	1/2	141.97	1/2		1/2					
3/4	1,494.87	3/4	1,221.92	3/4	948.97	3/4	682.51	3/4	410.06	3/4	136.26	3/4		3/4					
4	1,489.18	4	1,216.23	4	943.28	4	677.00	4	404.36	4	130.56	4		4					
1/4	1,483.50	1/4	1,210.54	1/4	937.59	1/4	671.49	1/4	398.65	1/4	124.85	1/4		1/4					
1/2	1,477.81	1/2	1,204.86	1/2	931.91	1/2	665.99	1/2	392.95	1/2	119.15	1/2		1/2					
3/4	1,472.12	3/4	1,199.17	3/4	926.22	3/4	660.39	3/4	387.24	3/4	113.45	3/4		3/4					
5	1,466.44	5	1,193.49	5	920.53	5	654.79	5	381.54	5	107.74	5		5					
1/4	1,460.75	1/4	1,187.80	1/4	914.85	1/4	649.19	1/4	375.83	1/4	102.04	1/4		1/4					
1/2	1,455.06	1/2	1,182.11	1/2	909.16	1/2	643.59	1/2	370.13	1/2	96.34	1/2		1/2					
3/4	1,449.38	3/4	1,176.43	3/4	903.47	3/4	637.91	3/4	364.43	3/4	90.64	3/4		3/4					
6	1,443.69	6	1,170.74	6	897.79	6	632.24	6	358.72	6	84.95	6		6					
1/4	1,438.00	1/4	1,165.05	1/4	892.10	1/4	626.56	1/4	353.02	1/4	79.25	1/4		1/4					
1/2	1,432.32	1/2	1,159.37	1/2	886.41	1/2	620.89	1/2	347.31	1/2	73.55	1/2		1/2					
3/4	1,426.63	3/4	1,153.68	3/4	880.80	3/4	615.20	3/4	341.61	3/4	67.88	3/4		3/4					
7	1,420.95	7	1,147.99	7	875.19	7	609.52	7	335.91	7	62.21	7		7					
1/4	1,415.26	1/4	1,142.31	1/4	869.57	1/4	603.84	1/4	330.20	1/4	56.54	1/4		1/4					
1/2	1,409.57	1/2	1,136.62	1/2	863.96	1/2	598.15	1/2	324.50	1/2	50.86	1/2		1/2					
3/4	1,403.89	3/4	1,130.93	3/4	858.43	3/4	592.46	3/4	318.79	3/4	45.66	3/4		3/4					
8	1,398.20	8	1,125.25	8	852.91	8	586.77	8	313.09	8	40.46	8		8					
1/4	1,392.51	1/4	1,119.56	1/4	847.38	1/4	581.08	1/4	307.39	1/4	35.25	1/4		1/4					
1/2	1,386.83	1/2	1,113.87	1/2	841.86	1/2	575.38	1/2	301.68	1/2	30.05	1/2		1/2					
3/4	1,381.14	3/4	1,108.19	3/4	836.35	3/4	569.69	3/4	295.98	3/4	26.25	3/4		3/4					
9	1,375.45	9	1,102.50	9	830.85	9	564.00	9	290.27	9	22.45	9		9					
1/4	1,369.77	1/4	1,096.81	1/4	825.34	1/4	558.31	1/4	284.57	1/4	18.65	1/4		1/4					
1/2	1,364.08	1/2	1,091.13	1/2	819.83	1/2	552.61	1/2	278.86	1/2	14.85	1/2		1/2					
3/4	1,358.39	3/4	1,085.44	3/4	814.33	3/4	546.92	3/4	273.16	3/4	12.95	3/4		3/4					
10	1,352.71	10	1,079.76	10	808.82	10	541.22	10	267.46	10	11.04	10		10					
1/4	1,347.02	1/4	1,074.07	1/4	803.32	1/4	535.53	1/4	261.75	1/4	9.14	1/4		1/4					
1/2	1,341.33	1/2	1,068.38	1/2	797.81	1/2	529.83	1/2	256.05	1/2	7.24	1/2		1/2					
3/4	1,335.65	3/4	1,062.70	3/4	792.31	3/4	524.13	3/4	250.34	3/4		3/4		3/4					
11	1,329.96	11	1,057.01	11	786.82	11	518.43	11	244.64	11		11		11					
1/4	1,324.27	1/4	1,051.32	1/4	781.32	1/4	512.73	1/4	238.94	1/4		1/4		1/4					
1/2	1,318.59	1/2	1,045.64	1/2	775.82	1/2	507.03	1/2	233.23	1/2		1/2		1/2					
3/4	1,312.90	3/4	1,039.95	3/4	770.33	3/4	501.32	3/4	227.53	3/4		3/4		3/4					

STRAPPED: 12/19/2018 SW
CALCULATED: 12/22/2018 CL
PRINTED: 12/23/2018 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2018

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.
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Pearland, Texas 77588
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BARGE "HFL 202S"

2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

GAUGE HEIGHT 15'-10 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	3,418.45	0	3,169.77	0	2,921.09	0	2,672.41	0	2,423.73	0	2,175.05	0	1,926.37	0	1,677.70		
1/4	1/4	1/4	3,413.26	1/4	3,164.59	1/4	2,915.91	1/4	2,667.23	1/4	2,418.55	1/4	2,169.87	1/4	1,921.19	1/4	1,672.52		
1/2	1/2	1/2	3,408.08	1/2	3,159.41	1/2	2,910.73	1/2	2,662.05	1/2	2,413.37	1/2	2,164.69	1/2	1,916.01	1/2	1,667.33		
3/4	3/4	3/4	3,402.90	3/4	3,154.22	3/4	2,905.55	3/4	2,656.87	3/4	2,408.19	3/4	2,159.51	3/4	1,910.83	3/4	1,662.15		
1	1	1	3,397.72	1	3,149.04	1	2,900.37	1	2,651.69	1	2,403.01	1	2,154.33	1	1,905.65	1	1,656.97		
1/4	1/4	1/4	3,392.54	1/4	3,143.86	1/4	2,895.18	1/4	2,646.51	1/4	2,397.83	1/4	2,149.15	1/4	1,900.47	1/4	1,651.79		
1/2	1/2	1/2	3,387.36	1/2	3,138.68	1/2	2,890.00	1/2	2,641.33	1/2	2,392.65	1/2	2,143.97	1/2	1,895.29	1/2	1,646.61		
3/4	3/4	3/4	3,382.18	3/4	3,133.50	3/4	2,884.82	3/4	2,636.14	3/4	2,387.47	3/4	2,138.79	3/4	1,890.11	3/4	1,641.43		
2	2	2	3,377.00	2	3,128.32	2	2,879.64	2	2,630.96	2	2,382.29	2	2,133.61	2	1,884.93	2	1,636.25		
1/4	1/4	1/4	3,371.82	1/4	3,123.14	1/4	2,874.46	1/4	2,625.78	1/4	2,377.10	1/4	2,128.43	1/4	1,879.75	1/4	1,631.07		
1/2	1/2	1/2	3,366.64	1/2	3,117.96	1/2	2,869.28	1/2	2,620.60	1/2	2,371.92	1/2	2,123.25	1/2	1,874.57	1/2	1,625.89		
3/4	3/4	3/4	3,578.79	3/4	3,361.46	3/4	3,112.78	3/4	2,864.10	3/4	2,615.42	3/4	2,366.74	3/4	2,118.06	3/4	1,869.39	3/4	1,620.71
3	3	3	3,577.92	3	3,356.28	3	3,107.60	3	2,858.92	3	2,610.24	3	2,361.56	3	2,112.88	3	1,864.21	3	1,615.53
1/4	1/4	1/4	3,577.06	1/4	3,351.10	1/4	3,102.42	1/4	2,853.74	1/4	2,605.06	1/4	2,356.38	1/4	2,107.70	1/4	1,859.02	1/4	1,610.35
1/2	1/2	1/2	3,575.33	1/2	3,345.91	1/2	3,097.24	1/2	2,848.56	1/2	2,599.88	1/2	2,351.20	1/2	2,102.52	1/2	1,853.84	1/2	1,605.17
3/4	3/4	3/4	3,573.61	3/4	3,340.73	3/4	3,092.05	3/4	2,843.38	3/4	2,594.70	3/4	2,346.02	3/4	2,097.34	3/4	1,848.66	3/4	1,599.98
4	4	4	3,571.88	4	3,335.55	4	3,086.87	4	2,838.20	4	2,589.52	4	2,340.84	4	2,092.16	4	1,843.48	4	1,594.80
1/4	1/4	1/4	3,570.15	1/4	3,330.37	1/4	3,081.69	1/4	2,833.01	1/4	2,584.34	1/4	2,335.66	1/4	2,086.98	1/4	1,838.30	1/4	1,589.62
1/2	1/2	1/2	3,566.70	1/2	3,325.19	1/2	3,076.51	1/2	2,827.83	1/2	2,579.16	1/2	2,330.48	1/2	2,081.80	1/2	1,833.12	1/2	1,584.44
3/4	3/4	3/4	3,563.25	3/4	3,320.01	3/4	3,071.33	3/4	2,822.65	3/4	2,573.97	3/4	2,325.30	3/4	2,076.62	3/4	1,827.94	3/4	1,579.26
5	5	5	3,559.79	5	3,314.83	5	3,066.15	5	2,817.47	5	2,568.79	5	2,320.12	5	2,071.44	5	1,822.76	5	1,574.08
1/4	1/4	1/4	3,556.34	1/4	3,309.65	1/4	3,060.97	1/4	2,812.29	1/4	2,563.61	1/4	2,314.93	1/4	2,066.26	1/4	1,817.58	1/4	1,568.90
1/2	1/2	1/2	3,551.62	1/2	3,304.47	1/2	3,055.79	1/2	2,807.11	1/2	2,558.43	1/2	2,309.75	1/2	2,061.08	1/2	1,812.40	1/2	1,563.72
3/4	3/4	3/4	3,546.89	3/4	3,299.29	3/4	3,050.61	3/4	2,801.93	3/4	2,553.25	3/4	2,304.57	3/4	2,055.89	3/4	1,807.22	3/4	1,558.54
6	6	6	3,542.16	6	3,294.11	6	3,045.43	6	2,796.75	6	2,548.07	6	2,299.39	6	2,050.71	6	1,802.04	6	1,553.36
1/4	1/4	1/4	3,537.44	1/4	3,288.93	1/4	3,040.25	1/4	2,791.57	1/4	2,542.89	1/4	2,294.21	1/4	2,045.53	1/4	1,796.85	1/4	1,548.18
1/2	1/2	1/2	3,532.29	1/2	3,283.74	1/2	3,035.07	1/2	2,786.39	1/2	2,537.71	1/2	2,289.03	1/2	2,040.35	1/2	1,791.67	1/2	1,543.00
3/4	3/4	3/4	3,527.13	3/4	3,278.56	3/4	3,029.89	3/4	2,781.21	3/4	2,532.53	3/4	2,283.85	3/4	2,035.17	3/4	1,786.49	3/4	1,537.81
7	7	7	3,521.98	7	3,273.38	7	3,024.70	7	2,776.03	7	2,527.35	7	2,278.67	7	2,029.99	7	1,781.31	7	1,532.63
1/4	1/4	1/4	3,516.83	1/4	3,268.20	1/4	3,019.52	1/4	2,770.85	1/4	2,522.17	1/4	2,273.49	1/4	2,024.81	1/4	1,776.13	1/4	1,527.45
1/2	1/2	1/2	3,511.66	1/2	3,263.02	1/2	3,014.34	1/2	2,765.66	1/2	2,516.99	1/2	2,268.31	1/2	2,019.63	1/2	1,770.95	1/2	1,522.27
3/4	3/4	3/4	3,506.48	3/4	3,257.84	3/4	3,009.16	3/4	2,760.48	3/4	2,511.81	3/4	2,263.13	3/4	2,014.45	3/4	1,765.77	3/4	1,517.09
8	8	8	3,501.31	8	3,252.66	8	3,003.98	8	2,755.30	8	2,506.62	8	2,257.95	8	2,009.27	8	1,760.59	8	1,511.91
1/4	1/4	1/4	3,496.14	1/4	3,247.48	1/4	2,998.80	1/4	2,750.12	1/4	2,501.44	1/4	2,252.77	1/4	2,004.09	1/4	1,755.41	1/4	1,506.73
1/2	1/2	1/2	3,490.96	1/2	3,242.30	1/2	2,993.62	1/2	2,744.94	1/2	2,496.26	1/2	2,247.58	1/2	1,998.91	1/2	1,750.23	1/2	1,501.55
3/4	3/4	3/4	3,485.79	3/4	3,237.12	3/4	2,988.44	3/4	2,739.76	3/4	2,491.08	3/4	2,242.40	3/4	1,993.73	3/4	1,745.05	3/4	1,496.37
9	9	9	3,480.61	9	3,231.94	9	2,983.26	9	2,734.58	9	2,485.90	9	2,237.22	9	1,988.54	9	1,739.87	9	1,491.19
1/4	1/4	1/4	3,475.43	1/4	3,226.76	1/4	2,978.08	1/4	2,729.40	1/4	2,480.72	1/4	2,232.04	1/4	1,983.36	1/4	1,734.69	1/4	1,486.01
1/2	1/2	1/2	3,470.25	1/2	3,221.58	1/2	2,972.90	1/2	2,724.22	1/2	2,475.54	1/2	2,226.86	1/2	1,978.18	1/2	1,729.50	1/2	1,480.83
3/4	3/4	3/4	3,465.07	3/4	3,216.39	3/4	2,967.72	3/4	2,719.04	3/4	2,470.36	3/4	2,221.68	3/4	1,973.00	3/4	1,724.32	3/4	1,475.65
10	10	10	3,459.89	10	3,211.21	10	2,962.53	10	2,713.86	10	2,465.18	10	2,216.50	10	1,967.82	10	1,719.14	10	1,470.46
1/4	1/4	1/4	3,454.71	1/4	3,206.03	1/4	2,957.35	1/4	2,708.68	1/4	2,460.00	1/4	2,211.32	1/4	1,962.64	1/4	1,713.96	1/4	1,465.28
1/2	1/2	1/2	3,449.53	1/2	3,200.85	1/2	2,952.17	1/2	2,703.49	1/2	2,454.82	1/2	2,206.14	1/2	1,957.46	1/2	1,708.78	1/2	1,460.10
3/4	3/4	3/4	3,444.35	3/4	3,195.67	3/4	2,946.99	3/4	2,698.31	3/4	2,449.64	3/4	2,200.96	3/4	1,952.28	3/4	1,703.60	3/4	1,454.92
11	11	11	3,439.17	11	3,190.49	11	2,941.81	11	2,693.13	11	2,444.45	11	2,195.78	11	1,947.10	11	1,698.42	11	1,449.74
1/4	1/4	1/4	3,433.99	1/4	3,185.31	1/4	2,936.63	1/4	2,687.95	1/4	2,439.27	1/4	2,190.60	1/4	1,941.92	1/4	1,693.24	1/4	1,444.56
1/2	1/2	1/2	3,428.81	1/2	3,180.13	1/2	2,931.45	1/2	2,682.77	1/2	2,434.09	1/2	2,185.41	1/2	1,936.74	1/2	1,688.06	1/2	1,439.38
3/4	3/4	3/4	3,423.63	3/4	3,174.95	3/4	2,926.27	3/4	2,677.59	3/4	2,428.91	3/4	2,180.23	3/4	1,931.56	3/4	1,682.88	3/4	1,434.20

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" DIAMETER "HERMETIC" VALVE
 GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 29'-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 202S"

2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

GAUGE HEIGHT 15'-10 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	1,429.02	0	1,180.34	0	931.66	0	686.35	0	440.72	0	192.06	0		0		0		0	
1/4	1,423.84	1/4	1,175.16	1/4	926.48	1/4	681.33	1/4	435.54	1/4	186.88	1/4		1/4		1/4		1/4	
1/2	1,418.66	1/2	1,169.98	1/2	921.30	1/2	676.32	1/2	430.36	1/2	181.70	1/2		1/2		1/2		1/2	
3/4	1,413.48	3/4	1,164.80	3/4	916.12	3/4	671.30	3/4	425.18	3/4	176.52	3/4		3/4		3/4		3/4	
1	1,408.29	1	1,159.62	1	910.94	1	666.28	1	420.00	1	171.34	1		1		1		1	
1/4	1,403.11	1/4	1,154.44	1/4	905.76	1/4	661.26	1/4	414.82	1/4	166.16	1/4		1/4		1/4		1/4	
1/2	1,397.93	1/2	1,149.25	1/2	900.58	1/2	656.24	1/2	409.64	1/2	160.98	1/2		1/2		1/2		1/2	
3/4	1,392.75	3/4	1,144.07	3/4	895.40	3/4	651.22	3/4	404.46	3/4	155.80	3/4		3/4		3/4		3/4	
2	1,387.57	2	1,138.89	2	890.21	2	646.21	2	399.28	2	150.62	2		2		2		2	
1/4	1,382.39	1/4	1,133.71	1/4	885.03	1/4	641.19	1/4	394.10	1/4	145.43	1/4		1/4		1/4		1/4	
1/2	1,377.21	1/2	1,128.53	1/2	879.85	1/2	636.17	1/2	388.92	1/2	140.25	1/2		1/2		1/2		1/2	
3/4	1,372.03	3/4	1,123.35	3/4	874.67	3/4	631.15	3/4	383.74	3/4	135.07	3/4		3/4		3/4		3/4	
3	1,366.85	3	1,118.17	3	869.49	3	626.13	3	378.56	3	129.89	3		3		3		3	
1/4	1,361.67	1/4	1,112.99	1/4	864.31	1/4	621.12	1/4	373.38	1/4	124.71	1/4		1/4		1/4		1/4	
1/2	1,356.49	1/2	1,107.81	1/2	859.13	1/2	616.09	1/2	368.20	1/2	119.53	1/2		1/2		1/2		1/2	
3/4	1,351.31	3/4	1,102.63	3/4	853.95	3/4	611.07	3/4	363.02	3/4	114.35	3/4		3/4		3/4		3/4	
4	1,346.13	4	1,097.45	4	848.77	4	606.04	4	357.84	4	109.17	4		4		4		4	
1/4	1,340.94	1/4	1,092.27	1/4	843.59	1/4	601.02	1/4	352.65	1/4	103.99	1/4		1/4		1/4		1/4	
1/2	1,335.76	1/2	1,087.09	1/2	838.41	1/2	595.91	1/2	347.47	1/2	98.81	1/2		1/2		1/2		1/2	
3/4	1,330.58	3/4	1,081.90	3/4	833.23	3/4	590.81	3/4	342.29	3/4	93.63	3/4		3/4		3/4		3/4	
5	1,325.40	5	1,076.72	5	828.05	5	585.70	5	337.11	5	88.45	5		5		5		5	
1/4	1,320.22	1/4	1,071.54	1/4	822.86	1/4	580.60	1/4	331.93	1/4	83.27	1/4		1/4		1/4		1/4	
1/2	1,315.04	1/2	1,066.36	1/2	817.68	1/2	575.42	1/2	326.75	1/2	78.10	1/2		1/2		1/2		1/2	
3/4	1,309.86	3/4	1,061.18	3/4	812.50	3/4	570.24	3/4	321.57	3/4	72.92	3/4		3/4		3/4		3/4	
6	1,304.68	6	1,056.00	6	807.32	6	565.06	6	316.39	6	67.75	6		6		6		6	
1/4	1,299.50	1/4	1,050.82	1/4	802.14	1/4	559.87	1/4	311.21	1/4	62.58	1/4		1/4		1/4		1/4	
1/2	1,294.32	1/2	1,045.64	1/2	797.04	1/2	554.69	1/2	306.03	1/2	57.43	1/2		1/2		1/2		1/2	
3/4	1,289.14	3/4	1,040.46	3/4	791.93	3/4	549.51	3/4	300.85	3/4	52.28	3/4		3/4		3/4		3/4	
7	1,283.96	7	1,035.28	7	786.83	7	544.33	7	295.67	7	47.12	7		7		7		7	
1/4	1,278.77	1/4	1,030.10	1/4	781.72	1/4	539.15	1/4	290.49	1/4	41.97	1/4		1/4		1/4		1/4	
1/2	1,273.59	1/2	1,024.92	1/2	776.70	1/2	533.97	1/2	285.31	1/2	37.25	1/2		1/2		1/2		1/2	
3/4	1,268.41	3/4	1,019.73	3/4	771.67	3/4	528.79	3/4	280.13	3/4	32.52	3/4		3/4		3/4		3/4	
8	1,263.23	8	1,014.55	8	766.65	8	523.61	8	274.95	8	27.80	8		8		8		8	
1/4	1,258.05	1/4	1,009.37	1/4	761.63	1/4	518.43	1/4	269.77	1/4	23.07	1/4		1/4		1/4		1/4	
1/2	1,252.87	1/2	1,004.19	1/2	756.61	1/2	513.25	1/2	264.59	1/2	19.62	1/2		1/2		1/2		1/2	
3/4	1,247.69	3/4	999.01	3/4	751.59	3/4	508.07	3/4	259.41	3/4	16.17	3/4		3/4		3/4		3/4	
9	1,242.51	9	993.83	9	746.57	9	502.89	9	254.23	9	12.71	9		9		9		9	
1/4	1,237.33	1/4	988.65	1/4	741.55	1/4	497.71	1/4	249.04	1/4	9.26	1/4		1/4		1/4		1/4	
1/2	1,232.15	1/2	983.47	1/2	736.53	1/2	492.53	1/2	243.86	1/2	7.53	1/2		1/2		1/2		1/2	
3/4	1,226.97	3/4	978.29	3/4	731.52	3/4	487.35	3/4	238.68	3/4	5.81	3/4		3/4		3/4		3/4	
10	1,221.79	10	973.11	10	726.50	10	482.17	10	233.50	10	4.08	10		10		10		10	
1/4	1,216.61	1/4	967.93	1/4	721.48	1/4	476.99	1/4	228.32	1/4	2.35	1/4		1/4		1/4		1/4	
1/2	1,211.42	1/2	962.75	1/2	716.46	1/2	471.81	1/2	223.14	1/2		1/2		1/2		1/2		1/2	
3/4	1,206.24	3/4	957.57	3/4	711.44	3/4	466.63	3/4	217.96	3/4		3/4		3/4		3/4		3/4	
11	1,201.06	11	952.38	11	706.43	11	461.45	11	212.78	11		11		11		11		11	
1/4	1,195.88	1/4	947.20	1/4	701.41	1/4	456.26	1/4	207.60	1/4		1/4		1/4		1/4		1/4	
1/2	1,190.70	1/2	942.02	1/2	696.39	1/2	451.08	1/2	202.42	1/2		1/2		1/2		1/2		1/2	
3/4	1,185.52	3/4	936.84	3/4	691.37	3/4	445.90	3/4	197.24	3/4		3/4		3/4		3/4		3/4	

STRAPPED: 12/19/2018 SW
CALCULATED: 12/22/2018 CL
PRINTED: 12/23/2018 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2018

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.
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Pearland, Texas 77588
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BARGE "HFL 202S"

3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

GAUGE HEIGHT 15'-10 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4	1/4	1/4	3,409.51	1/4	3,404.37	1/4	3,157.50	1/4	2,915.78	1/4	2,668.92	1/4	2,422.06	1/4	2,175.19	1/4	1,928.33	1/4	1,681.46
1/2	1/2	1/2	3,399.23	1/2	3,392.23	1/2	3,152.36	1/2	2,905.50	1/2	2,658.63	1/2	2,411.77	1/2	2,164.91	1/2	1,918.04	1/2	1,671.18
3/4	3/4	3/4	3,394.08	3/4	3,388.94	3/4	3,147.22	3/4	2,900.35	3/4	2,653.49	3/4	2,406.63	3/4	2,159.76	3/4	1,912.90	3/4	1,666.03
1	1	1	3,388.94	1	3,383.80	1	3,142.08	1	2,895.21	1	2,648.35	1	2,401.48	1	2,154.62	1	1,907.76	1	1,660.89
1/4	1/4	1/4	3,383.80	1/4	3,378.65	1/4	3,136.93	1/4	2,890.07	1/4	2,643.20	1/4	2,396.34	1/4	2,149.48	1/4	1,902.61	1/4	1,655.75
1/2	1/2	1/2	3,378.65	1/2	3,373.51	1/2	3,131.79	1/2	2,884.93	1/2	2,638.06	1/2	2,391.20	1/2	2,144.33	1/2	1,897.47	1/2	1,650.61
3/4	3/4	3/4	3,373.51	3/4	3,368.37	3/4	3,126.65	3/4	2,879.78	3/4	2,632.92	3/4	2,386.05	3/4	2,139.19	3/4	1,892.33	3/4	1,645.46
2	2	2	3,368.37	2	3,363.22	2	3,121.50	2	2,874.64	2	2,627.78	2	2,380.91	2	2,134.05	2	1,887.18	2	1,640.32
1/4	1/4	1/4	3,363.22	1/4	3,358.08	1/4	3,116.36	1/4	2,869.50	1/4	2,622.63	1/4	2,375.77	1/4	2,128.90	1/4	1,882.04	1/4	1,635.18
1/2	1/2	1/2	3,358.08	1/2	3,352.94	1/2	3,111.22	1/2	2,864.35	1/2	2,617.49	1/2	2,370.63	1/2	2,123.76	1/2	1,876.90	1/2	1,630.03
3/4	3/4	3/4	3,352.94	3/4	3,347.80	3/4	3,106.07	3/4	2,859.21	3/4	2,612.35	3/4	2,365.48	3/4	2,118.62	3/4	1,871.75	3/4	1,624.89
3	3	3	3,347.80	3	3,342.65	3	3,100.93	3	2,854.07	3	2,607.20	3	2,360.34	3	2,113.48	3	1,866.61	3	1,619.75
1/4	1/4	1/4	3,342.65	1/4	3,337.51	1/4	3,095.79	1/4	2,848.92	1/4	2,602.06	1/4	2,355.20	1/4	2,108.33	1/4	1,861.47	1/4	1,614.60
1/2	1/2	1/2	3,337.51	1/2	3,332.37	1/2	3,090.65	1/2	2,843.78	1/2	2,596.92	1/2	2,350.05	1/2	2,103.19	1/2	1,856.33	1/2	1,609.46
3/4	3/4	3/4	3,332.37	3/4	3,327.22	3/4	3,085.50	3/4	2,838.64	3/4	2,591.77	3/4	2,344.91	3/4	2,098.05	3/4	1,851.18	3/4	1,604.32
4	4	4	3,327.22	4	3,322.08	4	3,080.36	4	2,833.50	4	2,586.63	4	2,339.77	4	2,092.90	4	1,846.04	4	1,599.18
1/4	1/4	1/4	3,322.08	1/4	3,316.94	1/4	3,075.22	1/4	2,828.35	1/4	2,581.49	1/4	2,334.62	1/4	2,087.76	1/4	1,840.90	1/4	1,594.03
1/2	1/2	1/2	3,316.94	1/2	3,311.79	1/2	3,070.07	1/2	2,823.21	1/2	2,576.35	1/2	2,329.48	1/2	2,082.62	1/2	1,835.75	1/2	1,588.89
3/4	3/4	3/4	3,311.79	3/4	3,306.65	3/4	3,064.93	3/4	2,818.07	3/4	2,571.20	3/4	2,324.34	3/4	2,077.47	3/4	1,830.61	3/4	1,583.75
5	5	5	3,306.65	5	3,301.51	5	3,059.79	5	2,812.92	5	2,566.06	5	2,319.20	5	2,072.33	5	1,825.47	5	1,578.60
1/4	1/4	1/4	3,301.51	1/4	3,296.37	1/4	3,054.64	1/4	2,807.78	1/4	2,560.92	1/4	2,314.05	1/4	2,067.19	1/4	1,820.32	1/4	1,573.46
1/2	1/2	1/2	3,296.37	1/2	3,291.22	1/2	3,049.50	1/2	2,802.64	1/2	2,555.77	1/2	2,308.91	1/2	2,062.05	1/2	1,815.18	1/2	1,568.32
3/4	3/4	3/4	3,291.22	3/4	3,286.08	3/4	3,044.36	3/4	2,797.49	3/4	2,550.63	3/4	2,303.77	3/4	2,056.90	3/4	1,810.04	3/4	1,563.17
6	6	6	3,286.08	6	3,280.94	6	3,039.22	6	2,792.35	6	2,545.49	6	2,298.62	6	2,051.76	6	1,804.90	6	1,558.03
1/4	1/4	1/4	3,280.94	1/4	3,275.79	1/4	3,034.07	1/4	2,787.21	1/4	2,540.34	1/4	2,293.48	1/4	2,046.62	1/4	1,799.75	1/4	1,552.89
1/2	1/2	1/2	3,275.79	1/2	3,270.65	1/2	3,028.93	1/2	2,782.07	1/2	2,535.20	1/2	2,288.34	1/2	2,041.47	1/2	1,794.61	1/2	1,547.75
3/4	3/4	3/4	3,270.65	3/4	3,265.51	3/4	3,023.79	3/4	2,776.92	3/4	2,530.06	3/4	2,283.19	3/4	2,036.33	3/4	1,789.47	3/4	1,542.60
7	7	7	3,265.51	7	3,260.36	7	3,018.64	7	2,771.78	7	2,524.92	7	2,278.05	7	2,031.19	7	1,784.32	7	1,537.46
1/4	1/4	1/4	3,260.36	1/4	3,255.22	1/4	3,013.50	1/4	2,766.64	1/4	2,519.77	1/4	2,272.91	1/4	2,026.04	1/4	1,779.18	1/4	1,532.32
1/2	1/2	1/2	3,255.22	1/2	3,250.08	1/2	3,008.36	1/2	2,761.49	1/2	2,514.63	1/2	2,267.77	1/2	2,020.90	1/2	1,774.04	1/2	1,527.17
3/4	3/4	3/4	3,250.08	3/4	3,244.94	3/4	3,003.21	3/4	2,756.35	3/4	2,509.49	3/4	2,262.62	3/4	2,015.76	3/4	1,768.89	3/4	1,522.03
8	8	8	3,244.94	8	3,239.79	8	2,998.07	8	2,751.21	8	2,504.34	8	2,257.48	8	2,010.62	8	1,763.75	8	1,516.89
1/4	1/4	1/4	3,239.79	1/4	3,234.65	1/4	2,992.93	1/4	2,746.06	1/4	2,499.20	1/4	2,252.34	1/4	2,005.47	1/4	1,758.61	1/4	1,511.74
1/2	1/2	1/2	3,234.65	1/2	3,229.51	1/2	2,987.79	1/2	2,740.92	1/2	2,494.06	1/2	2,247.19	1/2	2,000.33	1/2	1,753.47	1/2	1,506.60
3/4	3/4	3/4	3,229.51	3/4	3,224.36	3/4	2,982.64	3/4	2,735.78	3/4	2,488.91	3/4	2,242.05	3/4	1,995.19	3/4	1,748.32	3/4	1,501.46
9	9	9	3,224.36	9	3,219.22	9	2,977.50	9	2,730.64	9	2,483.77	9	2,236.91	9	1,990.04	9	1,743.18	9	1,496.32
1/4	1/4	1/4	3,219.22	1/4	3,214.08	1/4	2,972.36	1/4	2,725.49	1/4	2,478.63	1/4	2,231.76	1/4	1,984.90	1/4	1,738.04	1/4	1,491.17
1/2	1/2	1/2	3,214.08	1/2	3,208.93	1/2	2,967.21	1/2	2,720.35	1/2	2,473.49	1/2	2,226.62	1/2	1,979.76	1/2	1,732.89	1/2	1,486.03
3/4	3/4	3/4	3,208.93	3/4	3,203.79	3/4	2,962.07	3/4	2,715.21	3/4	2,468.34	3/4	2,221.48	3/4	1,974.61	3/4	1,727.75	3/4	1,480.89
10	10	10	3,203.79	10	3,198.65	10	2,956.93	10	2,710.06	10	2,463.20	10	2,216.34	10	1,969.47	10	1,722.61	10	1,475.74
1/4	1/4	1/4	3,198.65	1/4	3,193.51	1/4	2,951.78	1/4	2,704.92	1/4	2,458.06	1/4	2,211.19	1/4	1,964.33	1/4	1,717.46	1/4	1,470.60
1/2	1/2	1/2	3,193.51	1/2	3,188.36	1/2	2,946.64	1/2	2,699.78	1/2	2,452.91	1/2	2,206.05	1/2	1,959.19	1/2	1,712.32	1/2	1,465.46
3/4	3/4	3/4	3,188.36	3/4	3,183.22	3/4	2,941.50	3/4	2,694.63	3/4	2,447.77	3/4	2,200.91	3/4	1,954.04	3/4	1,707.18	3/4	1,460.31
11	11	11	3,183.22	11	3,178.08	11	2,936.36	11	2,689.49	11	2,442.63	11	2,195.76	11	1,948.90	11	1,702.04	11	1,455.17
1/4	1/4	1/4	3,178.08	1/4	3,172.93	1/4	2,931.21	1/4	2,684.35	1/4	2,437.48	1/4	2,190.62	1/4	1,943.76	1/4	1,696.89	1/4	1,450.03
1/2	1/2	1/2	3,172.93	1/2	3,167.79	1/2	2,926.07	1/2	2,679.21	1/2	2,432.34	1/2	2,185.48	1/2	1,938.61	1/2	1,691.75	1/2	1,444.89
3/4	3/4	3/4	3,167.79	3/4	3,162.65	3/4	2,920.93	3/4	2,674.06	3/4	2,427.20	3/4	2,180.33	3/4	1,933.47	3/4	1,686.61	3/4	1,439.74

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" DIAMETER "HERMETIC" VALVE
 GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 29'-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 202S"

3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

GAUGE HEIGHT 15'-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	1,434.60	0	1,187.74	0	940.87	0	694.31	0	447.80	0	200.95	0		0					
1/4	1,429.46	1/4	1,182.59	1/4	935.73	1/4	689.19	1/4	442.66	1/4	195.81	1/4		1/4					
1/2	1,424.31	1/2	1,177.45	1/2	930.59	1/2	684.07	1/2	437.52	1/2	190.66	1/2		1/2					
3/4	1,419.17	3/4	1,172.31	3/4	925.44	3/4	678.94	3/4	432.37	3/4	185.52	3/4		3/4					
1	1,414.03	1	1,167.16	1	920.30	1	673.82	1	427.23	1	180.38	1		1					
1/4	1,408.88	1/4	1,162.02	1/4	915.16	1/4	668.69	1/4	422.09	1/4	175.23	1/4		1/4					
1/2	1,403.74	1/2	1,156.88	1/2	910.01	1/2	663.57	1/2	416.95	1/2	170.09	1/2		1/2					
3/4	1,398.60	3/4	1,151.73	3/4	904.87	3/4	658.44	3/4	411.80	3/4	164.95	3/4		3/4					
2	1,393.46	2	1,146.59	2	899.73	2	653.32	2	406.66	2	159.81	2		2					
1/4	1,388.31	1/4	1,141.45	1/4	894.58	1/4	648.19	1/4	401.52	1/4	154.66	1/4		1/4					
1/2	1,383.17	1/2	1,136.31	1/2	889.44	1/2	643.07	1/2	396.37	1/2	149.52	1/2		1/2					
3/4	1,378.03	3/4	1,131.16	3/4	884.30	3/4	637.94	3/4	391.23	3/4	144.38	3/4		3/4					
3	1,372.88	3	1,126.02	3	879.16	3	632.82	3	386.09	3	139.23	3		3					
1/4	1,367.74	1/4	1,120.88	1/4	874.01	1/4	627.70	1/4	380.95	1/4	134.09	1/4		1/4					
1/2	1,362.60	1/2	1,115.73	1/2	868.87	1/2	622.57	1/2	375.80	1/2	128.95	1/2		1/2					
3/4	1,357.45	3/4	1,110.59	3/4	863.73	3/4	617.45	3/4	370.66	3/4	123.81	3/4		3/4					
4	1,352.31	4	1,105.45	4	858.58	4	612.32	4	365.52	4	118.66	4		4					
1/4	1,347.17	1/4	1,100.30	1/4	853.44	1/4	607.19	1/4	360.37	1/4	113.52	1/4		1/4					
1/2	1,342.03	1/2	1,095.16	1/2	848.30	1/2	602.06	1/2	355.23	1/2	108.38	1/2		1/2					
3/4	1,336.88	3/4	1,090.02	3/4	843.15	3/4	596.93	3/4	350.09	3/4	103.23	3/4		3/4					
5	1,331.74	5	1,084.88	5	838.01	5	591.79	5	344.95	5	98.09	5		5					
1/4	1,326.60	1/4	1,079.73	1/4	832.87	1/4	586.65	1/4	339.80	1/4	92.95	1/4		1/4					
1/2	1,321.45	1/2	1,074.59	1/2	827.73	1/2	581.51	1/2	334.66	1/2	87.81	1/2		1/2					
3/4	1,316.31	3/4	1,069.45	3/4	822.58	3/4	576.37	3/4	329.52	3/4	82.67	3/4		3/4					
6	1,311.17	6	1,064.30	6	817.44	6	571.23	6	324.38	6	77.53	6		6					
1/4	1,306.02	1/4	1,059.16	1/4	812.30	1/4	566.09	1/4	319.23	1/4	72.40	1/4		1/4					
1/2	1,300.88	1/2	1,054.02	1/2	807.15	1/2	560.94	1/2	314.09	1/2	67.26	1/2		1/2					
3/4	1,295.74	3/4	1,048.87	3/4	802.01	3/4	555.80	3/4	308.95	3/4	62.12	3/4		3/4					
7	1,290.60	7	1,043.73	7	796.87	7	550.66	7	303.80	7	57.01	7		7					
1/4	1,285.45	1/4	1,038.59	1/4	791.73	1/4	545.52	1/4	298.66	1/4	51.90	1/4		1/4					
1/2	1,280.31	1/2	1,033.45	1/2	786.59	1/2	540.37	1/2	293.52	1/2	46.78	1/2		1/2					
3/4	1,275.17	3/4	1,028.30	3/4	781.45	3/4	535.23	3/4	288.38	3/4	41.67	3/4		3/4					
8	1,270.02	8	1,023.16	8	776.32	8	530.09	8	283.23	8	36.98	8		8					
1/4	1,264.88	1/4	1,018.02	1/4	771.19	1/4	524.94	1/4	278.09	1/4	32.29	1/4		1/4					
1/2	1,259.74	1/2	1,012.87	1/2	766.06	1/2	519.80	1/2	272.95	1/2	27.60	1/2		1/2					
3/4	1,254.59	3/4	1,007.73	3/4	760.93	3/4	514.66	3/4	267.80	3/4	22.90	3/4		3/4					
9	1,249.45	9	1,002.59	9	755.81	9	509.52	9	262.66	9	19.48	9		9					
1/4	1,244.31	1/4	997.44	1/4	750.68	1/4	504.37	1/4	257.52	1/4	16.05	1/4		1/4					
1/2	1,239.17	1/2	992.30	1/2	745.56	1/2	499.23	1/2	252.38	1/2	12.62	1/2		1/2					
3/4	1,234.02	3/4	987.16	3/4	740.43	3/4	494.09	3/4	247.23	3/4	9.20	3/4		3/4					
10	1,228.88	10	982.02	10	735.31	10	488.94	10	242.09	10	7.48	10		10					
1/4	1,223.74	1/4	976.87	1/4	730.19	1/4	483.80	1/4	236.95	1/4	5.77	1/4		1/4					
1/2	1,218.59	1/2	971.73	1/2	725.06	1/2	478.66	1/2	231.80	1/2	4.05	1/2		1/2					
3/4	1,213.45	3/4	966.59	3/4	719.94	3/4	473.52	3/4	226.66	3/4	2.34	3/4		3/4					
11	1,208.31	11	961.44	11	714.81	11	468.37	11	221.52	11		11		11					
1/4	1,203.16	1/4	956.30	1/4	709.69	1/4	463.23	1/4	216.38	1/4		1/4		1/4					
1/2	1,198.02	1/2	951.16	1/2	704.56	1/2	458.09	1/2	211.23	1/2		1/2		1/2					
3/4	1,192.88	3/4	946.01	3/4	699.44	3/4	452.95	3/4	206.09	3/4		3/4		3/4					

STRAPPED: 12/19/2018 SW
CALCULATED: 12/22/2018 CL
PRINTED: 12/23/2018 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2018

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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