



BARGE "HSM 1001"

INNAGE 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	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-3/8	- 00-3/8	00-1/2	- 00-1/2
1 STBD	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-3/8	- 00-3/8	00-1/2	- 00-1/2
2 PORT	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8
2 STBD	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8
3 PORT	- 00-1/2	00-1/2	- 01-1/8	01-1/8	- 01-5/8	01-5/8	- 02-1/4	02-1/4	- 02-3/4	02-3/4	- 03-3/8	03-3/8
3 STBD	- 00-1/2	00-1/2	- 01-1/8	01-1/8	- 01-5/8	01-5/8	- 02-1/4	02-1/4	- 02-3/4	02-3/4	- 03-3/8	03-3/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 253'-09"

September 5, 2013

PRECISION MEASUREMENT
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BARGE "HSM 1001"

1 PORT
INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 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	22.95	0	362.53	0	724.96	0	1,087.15	0	1,449.35	0	1,811.80	0	2,174.25	0	2,536.70	0	2,899.04	0	3,261.36
1/4	27.35	1/4	370.08	1/4	732.51	1/4	1,094.69	1/4	1,456.90	1/4	1,819.35	1/4	2,181.80	1/4	2,544.25	1/4	2,906.59	1/4	3,268.90
1/2	31.76	1/2	377.63	1/2	740.06	1/2	1,102.23	1/2	1,464.45	1/2	1,826.90	1/2	2,189.35	1/2	2,551.80	1/2	2,914.14	1/2	3,276.45
3/4	36.16	3/4	385.18	3/4	747.61	3/4	1,109.77	3/4	1,472.00	3/4	1,834.45	3/4	2,196.90	3/4	2,559.35	3/4	2,921.69	3/4	3,284.00
1	40.56	1	392.73	1	755.16	1	1,117.31	1	1,479.56	1	1,842.00	1	2,204.45	1	2,566.90	1	2,929.24	1	3,291.55
1 1/4	46.23	1 1/4	400.28	1 1/4	762.71	1 1/4	1,124.84	1 1/4	1,487.11	1 1/4	1,849.55	1 1/4	2,212.00	1 1/4	2,574.45	1 1/4	2,936.78	1 1/4	3,299.10
1 1/2	51.89	1 1/2	407.83	1 1/2	770.26	1 1/2	1,132.38	1 1/2	1,494.66	1 1/2	1,857.11	1 1/2	2,219.55	1 1/2	2,582.00	1 1/2	2,944.33	1 1/2	3,306.65
3/4	57.55	3/4	415.38	3/4	777.82	3/4	1,139.92	3/4	1,502.21	3/4	1,864.66	3/4	2,227.10	3/4	2,589.55	3/4	2,951.88	3/4	3,314.19
2	63.21	2	422.93	2	786.37	2	1,147.46	2	1,509.76	2	1,872.21	2	2,234.66	2	2,597.10	2	2,959.43	2	3,321.74
2 1/4	70.13	2 1/4	430.48	2 1/4	792.92	2 1/4	1,155.00	2 1/4	1,517.31	2 1/4	1,879.76	2 1/4	2,242.21	2 1/4	2,604.65	2 1/4	2,966.98	2 1/4	3,329.29
1 1/2	77.05	1 1/2	438.03	1 1/2	800.47	1 1/2	1,162.54	1 1/2	1,524.86	1 1/2	1,887.31	1 1/2	2,249.76	1 1/2	2,612.21	1 1/2	2,974.53	1 1/2	3,336.84
3/4	83.97	3/4	445.58	3/4	808.02	3/4	1,170.08	3/4	1,532.41	3/4	1,894.86	3/4	2,257.31	3/4	2,619.76	3/4	2,982.07	3/4	3,344.39
3	90.89	3	453.14	3	815.57	3	1,177.62	3	1,539.96	3	1,902.41	3	2,264.86	3	2,627.31	3	2,989.62	3	3,351.94
3 1/4	98.41	3 1/4	460.69	3 1/4	823.12	3 1/4	1,185.15	3 1/4	1,547.51	3 1/4	1,909.96	3 1/4	2,272.41	3 1/4	2,634.86	3 1/4	2,997.17	3 1/4	3,359.48
1 1/2	105.92	1 1/2	468.24	1 1/2	830.67	1 1/2	1,192.69	1 1/2	1,555.07	1 1/2	1,917.51	1 1/2	2,279.96	1 1/2	2,642.40	1 1/2	3,004.72	1 1/2	3,367.03
3/4	113.44	3/4	475.79	3/4	838.22	3/4	1,200.23	3/4	1,562.62	3/4	1,925.06	3/4	2,287.51	3/4	2,649.95	3/4	3,012.27	3/4	3,374.58
4	120.95	4	483.34	4	845.77	4	1,207.77	4	1,570.17	4	1,932.62	4	2,295.06	4	2,657.50	4	3,019.81	4	3,382.13
4 1/4	128.49	4 1/4	490.89	4 1/4	853.32	4 1/4	1,215.31	4 1/4	1,577.72	4 1/4	1,940.17	4 1/4	2,302.61	4 1/4	2,665.05	4 1/4	3,027.36	4 1/4	3,389.68
1 1/2	136.03	1 1/2	498.44	1 1/2	860.87	1 1/2	1,222.85	1 1/2	1,585.27	1 1/2	1,947.72	1 1/2	2,310.17	1 1/2	2,672.60	1 1/2	3,034.91	1 1/2	3,397.22
3/4	143.57	3/4	505.99	3/4	868.42	3/4	1,230.39	3/4	1,592.82	3/4	1,959.27	3/4	2,317.72	3/4	2,680.15	3/4	3,042.46	3/4	3,404.77
5	151.11	5	513.54	5	875.97	5	1,237.92	5	1,600.37	5	1,962.82	5	2,325.27	5	2,687.69	5	3,050.01	5	3,412.32
5 1/4	158.66	5 1/4	521.09	5 1/4	883.53	5 1/4	1,245.47	5 1/4	1,607.92	5 1/4	1,970.37	5 1/4	2,332.82	5 1/4	2,695.24	5 1/4	3,057.56	5 1/4	3,419.87
1 1/2	166.21	1 1/2	528.64	1 1/2	891.08	1 1/2	1,253.03	1 1/2	1,615.47	1 1/2	1,977.92	1 1/2	2,340.37	1 1/2	2,702.79	1 1/2	3,065.10	1 1/2	3,427.42
3/4	173.76	3/4	536.19	3/4	898.63	3/4	1,260.58	3/4	1,623.02	3/4	1,985.47	3/4	2,347.92	3/4	2,710.34	3/4	3,072.65	3/4	3,434.97
6	181.31	6	543.74	6	906.18	6	1,268.13	6	1,630.58	6	1,993.02	6	2,355.47	6	2,717.89	6	3,080.20	6	3,442.51
6 1/4	188.86	6 1/4	551.29	6 1/4	913.73	6 1/4	1,275.68	6 1/4	1,638.13	6 1/4	2,000.57	6 1/4	2,363.02	6 1/4	2,725.43	6 1/4	3,087.75	6 1/4	3,450.06
1 1/2	196.41	1 1/2	558.84	1 1/2	921.28	1 1/2	1,283.23	1 1/2	1,645.68	1 1/2	2,008.13	1 1/2	2,370.57	1 1/2	2,732.98	1 1/2	3,095.30	1 1/2	3,457.61
3/4	203.96	3/4	566.40	3/4	928.83	3/4	1,290.78	3/4	1,653.23	3/4	2,015.68	3/4	2,378.12	3/4	2,740.53	3/4	3,102.84	3/4	3,465.16
7	211.51	7	573.95	7	936.38	7	1,298.33	7	1,660.78	7	2,023.23	7	2,385.68	7	2,748.08	7	3,110.39	7	3,472.71
7 1/4	219.06	7 1/4	581.50	7 1/4	943.92	7 1/4	1,305.88	7 1/4	1,668.33	7 1/4	2,030.78	7 1/4	2,393.23	7 1/4	2,755.63	7 1/4	3,117.94	7 1/4	3,480.25
1 1/2	226.61	1 1/2	589.05	1 1/2	951.46	1 1/2	1,313.43	1 1/2	1,675.88	1 1/2	2,038.33	1 1/2	2,400.78	1 1/2	2,763.18	1 1/2	3,125.49	1 1/2	3,487.80
3/4	234.16	3/4	596.60	3/4	959.00	3/4	1,320.98	3/4	1,683.43	3/4	2,045.88	3/4	2,408.33	3/4	2,770.72	3/4	3,133.04	3/4	3,495.35
8	241.72	8	604.15	8	966.53	8	1,328.54	8	1,690.98	8	2,053.43	8	2,415.88	8	2,778.27	8	3,140.59	8	3,502.90
8 1/4	249.27	8 1/4	611.70	8 1/4	974.07	8 1/4	1,336.09	8 1/4	1,698.53	8 1/4	2,060.98	8 1/4	2,423.43	8 1/4	2,785.82	8 1/4	3,148.13	8 1/4	3,510.45
1 1/2	256.82	1 1/2	619.25	1 1/2	981.61	1 1/2	1,343.64	1 1/2	1,706.09	1 1/2	2,068.53	1 1/2	2,430.98	1 1/2	2,793.37	1 1/2	3,155.68	1 1/2	3,518.00
3/4	264.37	3/4	626.80	3/4	989.15	3/4	1,351.19	3/4	1,713.64	3/4	2,076.08	3/4	2,438.53	3/4	2,800.92	3/4	3,163.23	3/4	3,525.54
9	271.92	9	634.35	9	996.69	9	1,358.74	9	1,721.19	9	2,083.64	9	2,446.08	9	2,808.46	9	3,170.78	9	3,533.09
9 1/4	279.47	9 1/4	641.90	9 1/4	1,004.23	9 1/4	1,366.29	9 1/4	1,728.74	9 1/4	2,091.19	9 1/4	2,453.63	9 1/4	2,816.01	9 1/4	3,178.33	9 1/4	3,540.64
1 1/2	287.02	1 1/2	649.45	1 1/2	1,011.77	1 1/2	1,373.84	1 1/2	1,736.29	1 1/2	2,098.74	1 1/2	2,461.19	1 1/2	2,823.56	1 1/2	3,185.87	1 1/2	3,548.19
3/4	294.57	3/4	657.00	3/4	1,019.30	3/4	1,381.39	3/4	1,743.84	3/4	2,106.29	3/4	2,468.74	3/4	2,831.11	3/4	3,193.42	3/4	3,555.74
10	302.12	10	664.55	10	1,026.84	10	1,388.94	10	1,751.39	10	2,113.84	10	2,476.29	10	2,838.66	10	3,200.97	10	3,563.28
10 1/4	309.67	10 1/4	672.11	10 1/4	1,034.38	10 1/4	1,396.49	10 1/4	1,758.94	10 1/4	2,121.39	10 1/4	2,483.84	10 1/4	2,846.21	10 1/4	3,208.52	10 1/4	3,570.83
1 1/2	317.22	1 1/2	679.66	1 1/2	1,041.92	1 1/2	1,404.05	1 1/2	1,766.49	1 1/2	2,128.94	1 1/2	2,491.39	1 1/2	2,853.75	1 1/2	3,216.07	1 1/2	3,578.38
3/4	324.77	3/4	687.21	3/4	1,049.46	3/4	1,411.60	3/4	1,774.04	3/4	2,136.49	3/4	2,498.94	3/4	2,861.30	3/4	3,223.62	3/4	3,585.93
11	332.32	11	694.76	11	1,057.00	11	1,419.15	11	1,781.60	11	2,144.04	11	2,506.49	11	2,868.85	11	3,231.16	11	3,593.48
11 1/4	339.87	11 1/4	702.31	11 1/4	1,064.54	11 1/4	1,426.70	11 1/4	1,789.15	11 1/4	2,151.59	11 1/4	2,514.04	11 1/4	2,876.40	11 1/4	3,238.71	11 1/4	3,601.03
1 1/2	347.43	1 1/2	709.86	1 1/2	1,072.07	1 1/2	1,434.25	1 1/2	1,796.70	1 1/2	2,159.15	1 1/2	2,521.59	1 1/2	2,883.95	1 1/2	3,246.26	1 1/2	3,608.57
3/4	354.98	3/4	717.41	3/4	1,079.61	3/4	1,441.80	3/4	1,804.25	3/4	2,166.70	3/4	2,529.14	3/4	2,891.49	3/4	3,253.81	3/4	3,616.12

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" HERMETIC CLOSED GAUGING VALVE.
GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 41'-09" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "HSM 1001"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 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	3,623.67	0	3,985.98	0	4,348.30	0	4,705.77	0	5,045.05	0		0		0		0		0	
1/4	3,631.22	1/4	3,993.53	1/4	4,355.85	1/4	4,713.03	1/4	5,051.86	1/4		1/4		1/4		1/4		1/4	
1/2	3,638.77	1/2	4,001.08	1/2	4,363.39	1/2	4,720.30	1/2	5,058.67	1/2		1/2		1/2		1/2		1/2	
3/4	3,646.31	3/4	4,008.63	3/4	4,370.94	3/4	4,727.56	3/4	5,065.47	3/4		3/4		3/4		3/4		3/4	
1	3,653.86	1	4,016.18	1	4,378.49	1	4,734.83	1	5,072.28	1		1		1		1		1	
1/4	3,661.41	1/4	4,023.72	1/4	4,386.04	1/4	4,742.03	1/4	5,079.06	1/4		1/4		1/4		1/4		1/4	
1/2	3,668.96	1/2	4,031.27	1/2	4,393.59	1/2	4,749.24	1/2	5,085.84	1/2		1/2		1/2		1/2		1/2	
3/4	3,676.51	3/4	4,038.82	3/4	4,401.13	3/4	4,756.45	3/4	5,092.62	3/4		3/4		3/4		3/4		3/4	
2	3,684.06	2	4,046.37	2	4,408.68	2	4,763.65	2	5,099.39	2		2		2		2		2	
1/4	3,691.60	1/4	4,053.92	1/4	4,416.23	1/4	4,770.83	1/4	5,106.14	1/4		1/4		1/4		1/4		1/4	
1/2	3,699.15	1/2	4,061.47	1/2	4,423.78	1/2	4,778.00	1/2	5,112.89	1/2		1/2		1/2		1/2		1/2	
3/4	3,706.70	3/4	4,069.01	3/4	4,431.33	3/4	4,785.18	3/4	5,119.64	3/4		3/4		3/4		3/4		3/4	
3	3,714.25	3	4,076.56	3	4,438.88	3	4,792.35	3	5,126.38	3		3		3		3		3	
1/4	3,721.80	1/4	4,084.11	1/4	4,446.41	1/4	4,799.50	1/4	5,133.09	1/4		1/4		1/4		1/4		1/4	
1/2	3,729.35	1/2	4,091.66	1/2	4,453.94	1/2	4,806.65	1/2	5,139.80	1/2		1/2		1/2		1/2		1/2	
3/4	3,736.89	3/4	4,099.21	3/4	4,461.47	3/4	4,813.79	3/4	5,146.51	3/4		3/4		3/4		3/4		3/4	
4	3,744.44	4	4,106.76	4	4,469.00	4	4,820.94	4	5,153.22	4		4		4		4		4	
1/4	3,751.99	1/4	4,114.30	1/4	4,476.51	1/4	4,828.05	1/4	5,159.87	1/4		1/4		1/4		1/4		1/4	
1/2	3,759.54	1/2	4,121.85	1/2	4,484.01	1/2	4,835.17	1/2	5,166.52	1/2		1/2		1/2		1/2		1/2	
3/4	3,767.09	3/4	4,129.40	3/4	4,491.51	3/4	4,842.29	3/4	5,173.17	3/4		3/4		3/4		3/4		3/4	
5	3,774.63	5	4,136.95	5	4,499.02	5	4,849.40	5	5,179.83	5		5		5		5		5	
1/4	3,782.18	1/4	4,144.50	1/4	4,506.49	1/4	4,856.49	1/4	5,185.85	1/4		1/4		1/4		1/4		1/4	
1/2	3,789.73	1/2	4,152.04	1/2	4,513.97	1/2	4,863.57	1/2	5,191.88	1/2		1/2		1/2		1/2		1/2	
3/4	3,797.28	3/4	4,159.59	3/4	4,521.44	3/4	4,870.66	3/4	5,197.91	3/4		3/4		3/4		3/4		3/4	
6	3,804.83	6	4,167.14	6	4,528.91	6	4,877.75	6	5,203.94	6		6		6		6		6	
1/4	3,812.38	1/4	4,174.69	1/4	4,536.36	1/4	4,884.80	1/4	5,209.50	1/4		1/4		1/4		1/4		1/4	
1/2	3,819.92	1/2	4,182.24	1/2	4,543.80	1/2	4,891.86	1/2	5,215.06	1/2		1/2		1/2		1/2		1/2	
3/4	3,827.47	3/4	4,189.79	3/4	4,551.24	3/4	4,898.92	3/4	5,220.62	3/4		3/4		3/4		3/4		3/4	
7	3,835.02	7	4,197.33	7	4,558.69	7	4,905.97	7	5,226.18	7		7		7		7		7	
1/4	3,842.57	1/4	4,204.88	1/4	4,566.10	1/4	4,913.00	1/4	5,230.51	1/4		1/4		1/4		1/4		1/4	
1/2	3,850.12	1/2	4,212.43	1/2	4,573.52	1/2	4,920.02	1/2	5,234.85	1/2		1/2		1/2		1/2		1/2	
3/4	3,857.66	3/4	4,219.98	3/4	4,580.93	3/4	4,927.05	3/4	5,239.18	3/4		3/4		3/4		3/4		3/4	
8	3,865.21	8	4,227.53	8	4,588.34	8	4,934.08	8	5,243.51	8		8		8		8		8	
1/4	3,872.76	1/4	4,235.07	1/4	4,595.73	1/4	4,941.07	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,880.31	1/2	4,242.62	1/2	4,603.11	1/2	4,948.07	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,887.86	3/4	4,250.17	3/4	4,610.49	3/4	4,955.07	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,895.41	9	4,257.72	9	4,617.88	9	4,962.06	9		9		9		9		9		9	
1/4	3,902.95	1/4	4,265.27	1/4	4,625.23	1/4	4,969.03	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,910.50	1/2	4,272.82	1/2	4,632.59	1/2	4,976.00	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,918.05	3/4	4,280.36	3/4	4,639.94	3/4	4,982.97	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,925.60	10	4,287.91	10	4,647.30	10	4,989.94	10		10		10		10		10		10	
1/4	3,933.15	1/4	4,295.46	1/4	4,654.62	1/4	4,996.88	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,940.69	1/2	4,303.01	1/2	4,661.94	1/2	5,003.82	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,948.24	3/4	4,310.56	3/4	4,669.27	3/4	5,010.76	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,955.79	11	4,318.10	11	4,676.59	11	5,017.70	11		11		11		11		11		11	
1/4	3,963.34	1/4	4,325.65	1/4	4,683.89	1/4	5,024.54	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,970.89	1/2	4,333.20	1/2	4,691.18	1/2	5,031.37	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,978.44	3/4	4,340.75	3/4	4,698.48	3/4	5,038.21	3/4		3/4		3/4		3/4		3/4		3/4	

STRAPPED: 09/04/2013 CL
CALCULATED: 09/05/2013 CL
PRINTED: 09/05/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2013

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
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P.O. Box 2092
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BARGE "HSM 1001"

1 STBD

INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/2"

IN	0 FT.	N	1 FT.	N	2 FT.	N	3 FT.	N	4 FT.	N	5 FT.	N	6 FT.	N	7 FT.	N	8 FT.	N	9 FT.
0	22.96	0	362.61	0	725.13	0	1,086.47	0	1,447.80	0	1,810.34	0	2,172.87	0	2,535.41	0	2,897.84	0	3,260.24
1/4	27.36	1/4	370.17	1/4	732.69	1/4	1,093.97	1/4	1,455.36	1/4	1,817.89	1/4	2,180.43	1/4	2,542.96	1/4	2,905.39	1/4	3,267.79
1/2	31.77	1/2	377.72	1/2	740.24	1/2	1,101.47	1/2	1,462.91	1/2	1,825.44	1/2	2,187.98	1/2	2,550.51	1/2	2,912.94	1/2	3,275.34
3/4	36.17	3/4	385.27	3/4	747.79	3/4	1,108.97	3/4	1,470.46	3/4	1,833.00	3/4	2,195.53	3/4	2,558.07	3/4	2,920.49	3/4	3,282.89
1	40.57	1	392.82	1	755.34	1	1,116.47	1	1,478.02	1	1,840.55	1	2,203.08	1	2,565.62	1	2,928.04	1	3,290.44
1/4	46.24	1/4	400.38	1/4	762.90	1/4	1,123.97	1/4	1,485.57	1/4	1,848.10	1/4	2,210.64	1/4	2,573.17	1/4	2,935.59	1/4	3,297.99
1/2	51.90	1/2	407.93	1/2	770.45	1/2	1,131.47	1/2	1,493.12	1/2	1,855.66	1/2	2,218.19	1/2	2,580.72	1/2	2,943.14	1/2	3,305.54
3/4	57.57	3/4	415.48	3/4	778.00	3/4	1,138.97	3/4	1,500.67	3/4	1,863.21	3/4	2,225.74	3/4	2,588.28	3/4	2,950.69	3/4	3,313.09
2	63.23	2	423.03	2	785.55	2	1,146.47	2	1,508.23	2	1,870.76	2	2,233.30	2	2,595.83	2	2,958.24	2	3,320.64
1/4	70.15	1/4	430.59	1/4	793.11	1/4	1,153.97	1/4	1,515.78	1/4	1,878.31	1/4	2,240.85	1/4	2,603.38	1/4	2,965.79	1/4	3,328.19
1/2	77.07	1/2	438.14	1/2	800.66	1/2	1,161.48	1/2	1,523.33	1/2	1,885.87	1/2	2,248.40	1/2	2,610.94	1/2	2,973.34	1/2	3,335.74
3/4	83.99	3/4	445.69	3/4	808.21	3/4	1,168.98	3/4	1,530.89	3/4	1,893.42	3/4	2,255.95	3/4	2,618.49	3/4	2,980.89	3/4	3,343.29
3	90.91	3	453.24	3	815.76	3	1,176.48	3	1,538.44	3	1,900.97	3	2,263.51	3	2,626.04	3	2,988.44	3	3,350.84
1/4	98.43	1/4	460.80	1/4	823.32	1/4	1,183.98	1/4	1,545.99	1/4	1,908.53	1/4	2,271.06	1/4	2,633.59	1/4	2,995.99	1/4	3,358.39
1/2	105.95	1/2	468.35	1/2	830.87	1/2	1,191.48	1/2	1,553.54	1/2	1,916.08	1/2	2,278.61	1/2	2,641.14	1/2	3,003.54	1/2	3,365.94
3/4	113.46	3/4	475.90	3/4	838.42	3/4	1,198.98	3/4	1,561.10	3/4	1,923.63	3/4	2,286.17	3/4	2,648.69	3/4	3,011.09	3/4	3,373.49
4	120.98	4	483.45	4	845.97	4	1,206.48	4	1,568.65	4	1,931.18	4	2,293.72	4	2,656.24	4	3,018.64	4	3,381.04
1/4	128.52	1/4	491.01	1/4	853.53	1/4	1,213.98	1/4	1,576.20	1/4	1,938.74	1/4	2,301.27	1/4	2,663.79	1/4	3,026.19	1/4	3,388.59
1/2	136.06	1/2	498.56	1/2	861.08	1/2	1,221.48	1/2	1,583.76	1/2	1,946.29	1/2	2,308.82	1/2	2,671.34	1/2	3,033.74	1/2	3,396.14
3/4	143.61	3/4	506.11	3/4	868.63	3/4	1,228.98	3/4	1,591.31	3/4	1,953.84	3/4	2,316.38	3/4	2,678.89	3/4	3,041.29	3/4	3,403.69
5	151.15	5	513.66	5	876.18	5	1,236.49	5	1,598.86	5	1,961.40	5	2,323.93	5	2,686.44	5	3,048.84	5	3,411.24
1/4	158.70	1/4	521.22	1/4	883.74	1/4	1,244.00	1/4	1,606.41	1/4	1,968.95	1/4	2,331.48	1/4	2,693.99	1/4	3,056.39	1/4	3,418.79
1/2	166.25	1/2	528.77	1/2	891.29	1/2	1,251.51	1/2	1,613.97	1/2	1,976.50	1/2	2,339.04	1/2	2,701.54	1/2	3,063.94	1/2	3,426.34
3/4	173.80	3/4	536.32	3/4	898.84	3/4	1,259.02	3/4	1,621.52	3/4	1,984.05	3/4	2,346.59	3/4	2,709.09	3/4	3,071.49	3/4	3,433.89
6	181.35	6	543.87	6	906.39	6	1,266.54	6	1,629.07	6	1,991.61	6	2,354.14	6	2,716.64	6	3,079.04	6	3,441.44
1/4	188.91	1/4	551.43	1/4	913.91	1/4	1,274.09	1/4	1,636.62	1/4	1,999.16	1/4	2,361.69	1/4	2,724.19	1/4	3,086.59	1/4	3,448.99
1/2	196.46	1/2	558.98	1/2	921.42	1/2	1,281.64	1/2	1,644.18	1/2	2,006.71	1/2	2,369.25	1/2	2,731.74	1/2	3,094.14	1/2	3,456.54
3/4	204.01	3/4	566.53	3/4	928.93	3/4	1,289.20	3/4	1,651.73	3/4	2,014.26	3/4	2,376.80	3/4	2,739.29	3/4	3,101.69	3/4	3,464.09
7	211.56	7	574.08	7	936.45	7	1,296.75	7	1,659.28	7	2,021.82	7	2,384.35	7	2,746.84	7	3,109.24	7	3,471.64
1/4	219.12	1/4	581.64	1/4	943.95	1/4	1,304.30	1/4	1,666.84	1/4	2,029.37	1/4	2,391.90	1/4	2,754.39	1/4	3,116.79	1/4	3,479.19
1/2	226.67	1/2	589.19	1/2	951.45	1/2	1,311.85	1/2	1,674.39	1/2	2,036.92	1/2	2,399.46	1/2	2,761.94	1/2	3,124.34	1/2	3,486.74
3/4	234.22	3/4	596.74	3/4	958.95	3/4	1,319.41	3/4	1,681.94	3/4	2,044.48	3/4	2,407.01	3/4	2,769.49	3/4	3,131.89	3/4	3,494.29
8	241.77	8	604.29	8	966.45	8	1,326.96	8	1,689.49	8	2,052.03	8	2,414.56	8	2,777.04	8	3,139.44	8	3,501.84
1/4	249.33	1/4	611.85	1/4	973.95	1/4	1,334.51	1/4	1,697.05	1/4	2,059.58	1/4	2,422.12	1/4	2,784.59	1/4	3,146.99	1/4	3,509.39
1/2	256.88	1/2	619.40	1/2	981.45	1/2	1,342.07	1/2	1,704.60	1/2	2,067.13	1/2	2,429.67	1/2	2,792.14	1/2	3,154.54	1/2	3,516.94
3/4	264.43	3/4	626.95	3/4	988.95	3/4	1,349.62	3/4	1,712.15	3/4	2,074.69	3/4	2,437.22	3/4	2,799.69	3/4	3,162.09	3/4	3,524.49
9	271.98	9	634.50	9	996.45	9	1,357.17	9	1,719.71	9	2,082.24	9	2,444.77	9	2,807.24	9	3,169.64	9	3,532.04
1/4	279.54	1/4	642.06	1/4	1,003.95	1/4	1,364.72	1/4	1,727.26	1/4	2,089.79	1/4	2,452.33	1/4	2,814.79	1/4	3,177.19	1/4	3,539.59
1/2	287.09	1/2	649.61	1/2	1,011.46	1/2	1,372.28	1/2	1,734.81	1/2	2,097.35	1/2	2,459.88	1/2	2,822.34	1/2	3,184.74	1/2	3,547.14
3/4	294.64	3/4	657.16	3/4	1,018.96	3/4	1,379.83	3/4	1,742.36	3/4	2,104.90	3/4	2,467.43	3/4	2,829.89	3/4	3,192.29	3/4	3,554.69
10	302.19	10	664.71	10	1,026.46	10	1,387.38	10	1,749.92	10	2,112.45	10	2,474.99	10	2,837.44	10	3,199.84	10	3,562.24
1/4	309.75	1/4	672.27	1/4	1,033.96	1/4	1,394.94	1/4	1,757.47	1/4	2,120.00	1/4	2,482.54	1/4	2,844.99	1/4	3,207.39	1/4	3,569.79
1/2	317.30	1/2	679.82	1/2	1,041.46	1/2	1,402.49	1/2	1,765.02	1/2	2,127.56	1/2	2,490.09	1/2	2,852.54	1/2	3,214.94	1/2	3,577.34
3/4	324.85	3/4	687.37	3/4	1,048.96	3/4	1,410.04	3/4	1,772.58	3/4	2,135.11	3/4	2,497.64	3/4	2,860.09	3/4	3,222.49	3/4	3,584.89
11	332.40	11	694.92	11	1,056.46	11	1,417.59	11	1,780.13	11	2,142.66	11	2,505.20	11	2,867.64	11	3,230.04	11	3,592.44
1/4	339.96	1/4	702.48	1/4	1,063.96	1/4	1,425.15	1/4	1,787.68	1/4	2,150.22	1/4	2,512.75	1/4	2,875.19	1/4	3,237.59	1/4	3,599.99
1/2	347.51	1/2	710.03	1/2	1,071.46	1/2	1,432.70	1/2	1,795.23	1/2	2,157.77	1/2	2,520.30	1/2	2,882.74	1/2	3,245.14	1/2	3,607.54
3/4	355.06	3/4	717.58	3/4	1,078.96	3/4	1,440.25	3/4	1,802.79	3/4	2,165.32	3/4	2,527.86	3/4	2,890.29	3/4	3,252.69	3/4	3,615.09

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" HERMETIC CLOSED GAUGING VALVE.

GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 41'-09" 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 "HSM 1001"

1 STBD
INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 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	3,622.64	0	3,985.04	0	4,347.44	0	4,705.01	0	5,044.37	0		0		0		0		0	
1/4	3,630.19	1/4	3,992.59	1/4	4,354.99	1/4	4,712.27	1/4	5,051.18	1/4		1/4		1/4		1/4		1/4	
1/2	3,637.74	1/2	4,000.14	1/2	4,362.54	1/2	4,719.54	1/2	5,057.99	1/2		1/2		1/2		1/2		1/2	
3/4	3,645.29	3/4	4,007.69	3/4	4,370.09	3/4	4,726.81	3/4	5,064.80	3/4		3/4		3/4		3/4		3/4	
1	3,652.84	1	4,015.24	1	4,377.64	1	4,734.07	1	5,071.61	1		1		1		1		1	
1 1/4	3,660.39	1 1/4	4,022.79	1 1/4	4,385.19	1 1/4	4,741.28	1 1/4	5,078.39	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,667.94	1 1/2	4,030.34	1 1/2	4,392.74	1 1/2	4,748.49	1 1/2	5,085.17	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/2	3,675.49	3/2	4,037.89	3/2	4,400.29	3/2	4,755.70	3/2	5,091.95	3/2		3/2		3/2		3/2		3/2	
2	3,683.04	2	4,045.44	2	4,407.84	2	4,762.90	2	5,098.73	2		2		2		2		2	
2 1/4	3,690.59	2 1/4	4,052.99	2 1/4	4,415.39	2 1/4	4,770.08	2 1/4	5,105.47	2 1/4		2 1/4		2 1/4		2 1/4		2 1/4	
2 1/2	3,698.14	2 1/2	4,060.54	2 1/2	4,422.94	2 1/2	4,777.26	2 1/2	5,112.22	2 1/2		2 1/2		2 1/2		2 1/2		2 1/2	
3 1/4	3,705.69	3 1/4	4,068.09	3 1/4	4,430.49	3 1/4	4,784.44	3 1/4	5,118.97	3 1/4		3 1/4		3 1/4		3 1/4		3 1/4	
3	3,713.24	3	4,075.64	3	4,438.04	3	4,791.61	3	5,125.72	3		3		3		3		3	
3 1/4	3,720.79	3 1/4	4,083.19	3 1/4	4,445.58	3 1/4	4,798.76	3 1/4	5,132.43	3 1/4		3 1/4		3 1/4		3 1/4		3 1/4	
1/2	3,728.34	1/2	4,090.74	1/2	4,453.11	1/2	4,805.91	1/2	5,139.14	1/2		1/2		1/2		1/2		1/2	
3/4	3,735.89	3/4	4,098.29	3/4	4,460.65	3/4	4,813.06	3/4	5,145.85	3/4		3/4		3/4		3/4		3/4	
4	3,743.44	4	4,105.84	4	4,468.19	4	4,820.20	4	5,152.56	4		4		4		4		4	
1 1/4	3,750.99	1 1/4	4,113.39	1 1/4	4,475.69	1 1/4	4,827.32	1 1/4	5,159.21	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,758.54	1 1/2	4,120.94	1 1/2	4,483.20	1 1/2	4,834.44	1 1/2	5,165.87	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/2	3,766.09	3/2	4,128.49	3/2	4,490.70	3/2	4,841.56	3/2	5,172.52	3/2		3/2		3/2		3/2		3/2	
5	3,773.64	5	4,136.04	5	4,498.21	5	4,848.67	5	5,179.18	5		5		5		5		5	
1 1/4	3,781.19	1 1/4	4,143.59	1 1/4	4,505.68	1 1/4	4,855.76	1 1/4	5,185.20	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,788.74	1 1/2	4,151.14	1 1/2	4,513.16	1 1/2	4,862.85	1 1/2	5,191.23	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	3,796.29	3/4	4,158.69	3/4	4,520.63	3/4	4,869.94	3/4	5,197.26	3/4		3/4		3/4		3/4		3/4	
6	3,803.84	6	4,166.24	6	4,528.11	6	4,877.03	6	5,203.29	6		6		6		6		6	
1 1/4	3,811.39	1 1/4	4,173.79	1 1/4	4,535.55	1 1/4	4,884.08	1 1/4	5,208.85	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,818.94	1 1/2	4,181.34	1 1/2	4,543.00	1 1/2	4,891.14	1 1/2	5,214.42	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/2	3,826.49	3/2	4,188.89	3/2	4,550.44	3/2	4,898.20	3/2	5,219.98	3/2		3/2		3/2		3/2		3/2	
7	3,834.04	7	4,196.44	7	4,557.89	7	4,905.26	7	5,225.54	7		7		7		7		7	
1 1/4	3,841.59	1 1/4	4,203.99	1 1/4	4,565.31	1 1/4	4,912.29	1 1/4	5,229.87	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,849.14	1 1/2	4,211.54	1 1/2	4,572.72	1 1/2	4,919.31	1 1/2	5,234.21	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	3,856.69	3/4	4,219.09	3/4	4,580.14	3/4	4,926.34	3/4	5,238.54	3/4		3/4		3/4		3/4		3/4	
8	3,864.24	8	4,226.64	8	4,587.55	8	4,933.37	8	5,242.87	8		8		8		8		8	
1 1/4	3,871.79	1 1/4	4,234.19	1 1/4	4,594.94	1 1/4	4,940.37	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,879.34	1 1/2	4,241.74	1 1/2	4,602.32	1 1/2	4,947.37	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/2	3,886.89	3/2	4,249.29	3/2	4,609.71	3/2	4,954.37	3/2		3/2		3/2		3/2		3/2		3/2	
9	3,894.44	9	4,256.84	9	4,617.10	9	4,961.36	9		9		9		9		9		9	
1 1/4	3,901.99	1 1/4	4,264.39	1 1/4	4,624.45	1 1/4	4,968.33	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,909.54	1 1/2	4,271.94	1 1/2	4,631.81	1 1/2	4,975.31	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/2	3,917.09	3/2	4,279.49	3/2	4,639.16	3/2	4,982.28	3/2		3/2		3/2		3/2		3/2		3/2	
10	3,924.64	10	4,287.04	10	4,646.52	10	4,989.25	10		10		10		10		10		10	
1 1/4	3,932.19	1 1/4	4,294.59	1 1/4	4,653.85	1 1/4	4,996.19	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,939.74	1 1/2	4,302.14	1 1/2	4,661.17	1 1/2	5,003.13	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/2	3,947.29	3/2	4,309.69	3/2	4,668.50	3/2	5,010.07	3/2		3/2		3/2		3/2		3/2		3/2	
11	3,954.84	11	4,317.24	11	4,675.82	11	5,017.01	11		11		11		11		11		11	
1 1/4	3,962.39	1 1/4	4,324.79	1 1/4	4,683.12	1 1/4	5,023.85	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,969.94	1 1/2	4,332.34	1 1/2	4,690.42	1 1/2	5,030.69	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	3,977.49	3/4	4,339.89	3/4	4,697.71	3/4	5,037.53	3/4		3/4		3/4		3/4		3/4		3/4	

STRAPPED: 09/04/2013 CL
CALCULATED: 09/05/2013 CL
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BARGE "HSM 1001"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	22.90	0	361.70	0	723.31	0	1,084.68	0	1,446.05	0	1,807.67	0	2,169.29	0	2,530.90	0	2,892.42	0	3,253.91
1/4	27.29	1/4	369.24	1/4	730.84	1/4	1,092.20	1/4	1,453.58	1/4	1,815.20	1/4	2,176.82	1/4	2,538.44	1/4	2,899.96	1/4	3,261.44
1/2	31.69	1/2	376.77	1/2	738.38	1/2	1,099.72	1/2	1,461.12	1/2	1,822.74	1/2	2,184.35	1/2	2,545.97	1/2	2,907.49	1/2	3,268.97
3/4	36.08	3/4	384.30	3/4	745.91	3/4	1,107.24	3/4	1,468.65	3/4	1,830.27	3/4	2,191.89	3/4	2,553.51	3/4	2,915.02	3/4	3,276.51
1	40.47	1	391.84	1	753.44	1	1,114.76	1	1,476.19	1	1,837.80	1	2,199.42	1	2,561.04	1	2,922.55	1	3,284.04
1 1/4	46.12	1 1/4	399.37	1 1/4	760.98	1 1/4	1,122.29	1 1/4	1,483.72	1 1/4	1,845.34	1 1/4	2,206.95	1 1/4	2,568.57	1 1/4	2,930.08	1 1/4	3,291.57
1 1/2	51.77	1 1/2	406.90	1 1/2	768.51	1 1/2	1,129.81	1 1/2	1,491.25	1 1/2	1,852.87	1 1/2	2,214.49	1 1/2	2,576.11	1 1/2	2,937.61	1 1/2	3,299.10
3/4	57.42	3/4	414.44	3/4	776.04	3/4	1,137.33	3/4	1,498.79	3/4	1,860.40	3/4	2,222.02	3/4	2,583.64	3/4	2,945.14	3/4	3,306.63
2	63.07	2	421.97	2	783.58	2	1,144.85	2	1,506.32	2	1,867.94	2	2,229.56	2	2,591.17	2	2,952.67	2	3,314.16
1 1/4	69.97	1 1/4	429.50	1 1/4	791.11	1 1/4	1,152.37	1 1/4	1,513.85	1 1/4	1,875.47	1 1/4	2,237.09	1 1/4	2,598.71	1 1/4	2,960.20	1 1/4	3,321.69
1 1/2	76.88	1 1/2	437.04	1 1/2	798.64	1 1/2	1,159.89	1 1/2	1,521.39	1 1/2	1,883.01	1 1/2	2,244.62	1 1/2	2,606.24	1 1/2	2,967.73	1 1/2	3,329.22
3/4	83.78	3/4	444.57	3/4	806.18	3/4	1,167.41	3/4	1,528.92	3/4	1,890.54	3/4	2,252.16	3/4	2,613.77	3/4	2,975.27	3/4	3,336.75
3	90.69	3	452.10	3	813.71	3	1,174.94	3	1,536.46	3	1,898.07	3	2,259.69	3	2,621.31	3	2,982.80	3	3,344.28
1 1/4	98.18	1 1/4	459.64	1 1/4	821.25	1 1/4	1,182.46	1 1/4	1,543.99	1 1/4	1,905.61	1 1/4	2,267.22	1 1/4	2,628.84	1 1/4	2,990.33	1 1/4	3,351.82
1 1/2	105.68	1 1/2	467.17	1 1/2	828.78	1 1/2	1,189.98	1 1/2	1,551.52	1 1/2	1,913.14	1 1/2	2,274.76	1 1/2	2,636.37	1 1/2	2,997.86	1 1/2	3,359.35
3/4	113.18	3/4	474.70	3/4	836.31	3/4	1,197.50	3/4	1,559.06	3/4	1,920.67	3/4	2,282.29	3/4	2,643.90	3/4	3,005.39	3/4	3,366.88
4	120.68	4	482.24	4	843.85	4	1,205.02	4	1,566.59	4	1,928.21	4	2,289.83	4	2,651.43	4	3,012.92	4	3,374.41
1 1/4	128.20	1 1/4	489.77	1 1/4	851.38	1 1/4	1,212.54	1 1/4	1,574.12	1 1/4	1,935.74	1 1/4	2,297.36	1 1/4	2,658.96	1 1/4	3,020.45	1 1/4	3,381.94
1 1/2	135.72	1 1/2	497.30	1 1/2	858.91	1 1/2	1,220.06	1 1/2	1,581.66	1 1/2	1,943.28	1 1/2	2,304.89	1 1/2	2,666.49	1 1/2	3,027.98	1 1/2	3,389.47
3/4	143.25	3/4	504.84	3/4	866.45	3/4	1,227.59	3/4	1,589.19	3/4	1,950.81	3/4	2,312.43	3/4	2,674.03	3/4	3,035.51	3/4	3,397.00
5	150.77	5	512.37	5	873.98	5	1,235.11	5	1,598.73	5	1,958.34	5	2,319.96	5	2,681.56	5	3,043.04	5	3,404.53
1 1/4	158.30	1 1/4	519.91	1 1/4	881.51	1 1/4	1,242.64	1 1/4	1,604.26	1 1/4	1,965.88	1 1/4	2,327.49	1 1/4	2,689.09	1 1/4	3,050.58	1 1/4	3,412.06
1 1/2	165.83	1 1/2	527.44	1 1/2	889.05	1 1/2	1,250.18	1 1/2	1,611.79	1 1/2	1,973.41	1 1/2	2,335.03	1 1/2	2,696.62	1 1/2	3,058.11	1 1/2	3,419.59
3/4	173.37	3/4	534.97	3/4	896.58	3/4	1,257.71	3/4	1,619.33	3/4	1,980.94	3/4	2,342.56	3/4	2,704.15	3/4	3,065.64	3/4	3,427.13
6	180.90	6	542.51	6	904.11	6	1,265.24	6	1,626.86	6	1,988.48	6	2,350.10	6	2,711.68	6	3,073.17	6	3,434.66
1 1/4	188.43	1 1/4	550.04	1 1/4	911.65	1 1/4	1,272.78	1 1/4	1,634.39	1 1/4	1,996.01	1 1/4	2,357.63	1 1/4	2,719.21	1 1/4	3,080.70	1 1/4	3,442.19
1 1/2	195.96	1 1/2	557.57	1 1/2	919.18	1 1/2	1,280.31	1 1/2	1,641.93	1 1/2	2,003.55	1 1/2	2,365.16	1 1/2	2,726.74	1 1/2	3,088.23	1 1/2	3,449.72
3/4	203.50	3/4	565.11	3/4	926.71	3/4	1,287.84	3/4	1,649.46	3/4	2,011.08	3/4	2,372.70	3/4	2,734.27	3/4	3,095.76	3/4	3,457.25
7	211.03	7	572.64	7	934.25	7	1,295.38	7	1,656.99	7	2,018.61	7	2,380.23	7	2,741.80	7	3,103.29	7	3,464.78
1 1/4	218.57	1 1/4	580.17	1 1/4	941.77	1 1/4	1,302.91	1 1/4	1,664.53	1 1/4	2,026.15	1 1/4	2,387.76	1 1/4	2,749.34	1 1/4	3,110.82	1 1/4	3,472.31
1 1/2	226.10	1 1/2	587.71	1 1/2	949.29	1 1/2	1,310.44	1 1/2	1,672.06	1 1/2	2,033.68	1 1/2	2,395.30	1 1/2	2,756.87	1 1/2	3,118.35	1 1/2	3,479.84
3/4	233.63	3/4	595.24	3/4	956.81	3/4	1,317.98	3/4	1,679.60	3/4	2,041.21	3/4	2,402.83	3/4	2,764.40	3/4	3,125.89	3/4	3,487.37
8	241.17	8	602.77	8	964.33	8	1,325.51	8	1,687.13	8	2,048.75	8	2,410.36	8	2,771.93	8	3,133.42	8	3,494.90
1 1/4	248.70	1 1/4	610.31	1 1/4	971.86	1 1/4	1,333.05	1 1/4	1,694.66	1 1/4	2,056.28	1 1/4	2,417.90	1 1/4	2,779.46	1 1/4	3,140.95	1 1/4	3,502.44
1 1/2	256.23	1 1/2	617.84	1 1/2	979.38	1 1/2	1,340.58	1 1/2	1,702.20	1 1/2	2,063.81	1 1/2	2,425.43	1 1/2	2,786.99	1 1/2	3,148.48	1 1/2	3,509.97
3/4	263.77	3/4	625.37	3/4	986.90	3/4	1,348.11	3/4	1,709.73	3/4	2,071.35	3/4	2,432.97	3/4	2,794.52	3/4	3,156.01	3/4	3,517.50
9	271.30	9	632.91	9	994.42	9	1,355.65	9	1,717.26	9	2,078.88	9	2,440.50	9	2,802.05	9	3,163.54	9	3,525.03
1 1/4	278.83	1 1/4	640.44	1 1/4	1,001.94	1 1/4	1,363.18	1 1/4	1,724.80	1 1/4	2,086.42	1 1/4	2,448.03	1 1/4	2,809.58	1 1/4	3,171.07	1 1/4	3,532.56
1 1/2	286.37	1 1/2	647.97	1 1/2	1,009.46	1 1/2	1,370.71	1 1/2	1,732.33	1 1/2	2,093.95	1 1/2	2,455.57	1 1/2	2,817.11	1 1/2	3,178.60	1 1/2	3,540.09
3/4	293.90	3/4	655.51	3/4	1,016.98	3/4	1,378.25	3/4	1,739.87	3/4	2,101.48	3/4	2,463.10	3/4	2,824.65	3/4	3,186.13	3/4	3,547.62
10	301.43	10	663.04	10	1,024.51	10	1,385.78	10	1,747.40	10	2,109.02	10	2,470.63	10	2,832.18	10	3,193.66	10	3,555.15
1 1/4	308.97	1 1/4	670.58	1 1/4	1,032.03	1 1/4	1,393.32	1 1/4	1,754.93	1 1/4	2,116.55	1 1/4	2,478.17	1 1/4	2,839.71	1 1/4	3,201.20	1 1/4	3,562.68
1 1/2	316.50	1 1/2	678.11	1 1/2	1,039.55	1 1/2	1,400.85	1 1/2	1,762.47	1 1/2	2,124.08	1 1/2	2,485.70	1 1/2	2,847.24	1 1/2	3,208.73	1 1/2	3,570.21
3/4	324.03	3/4	685.64	3/4	1,047.07	3/4	1,408.38	3/4	1,770.00	3/4	2,131.62	3/4	2,493.24	3/4	2,854.77	3/4	3,216.26	3/4	3,577.75
11	331.57	11	693.18	11	1,054.59	11	1,415.92	11	1,777.53	11	2,139.15	11	2,500.77	11	2,862.30	11	3,223.79	11	3,585.28
1 1/4	339.10	1 1/4	700.71	1 1/4	1,062.11	1 1/4	1,423.45	1 1/4	1,785.07	1 1/4	2,146.69	1 1/4	2,508.30	1 1/4	2,869.83	1 1/4	3,231.32	1 1/4	3,592.81
1 1/2	346.63	1 1/2	708.24	1 1/2	1,069.63	1 1/2	1,430.98	1 1/2	1,792.60	1 1/2	2,154.22	1 1/2	2,515.84	1 1/2	2,877.36	1 1/2	3,238.85	1 1/2	3,600.34
3/4	354.17	3/4	715.78	3/4	1,077.16	3/4	1,438.52	3/4	1,800.14	3/4	2,161.75	3/4	2,523.37	3/4	2,884.89	3/4	3,246.38	3/4	3,607.87

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" HERMETIC CLOSED GAUGING VALVE.
GAUGE POINT: (HERMETIC) LOCATED 10'-06" 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 "HSM 1001"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 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	3,615.40	0	3,976.89	0	4,338.38	0	4,695.05	0	5,033.58	0		0		0		0		0	
1/4	3,622.93	1/4	3,984.42	1/4	4,345.91	1/4	4,702.30	1/4	5,040.37	1/4		1/4		1/4		1/4		1/4	
1/2	3,630.46	1/2	3,991.95	1/2	4,353.44	1/2	4,709.55	1/2	5,047.16	1/2		1/2		1/2		1/2		1/2	
3/4	3,637.99	3/4	3,999.48	3/4	4,360.97	3/4	4,716.80	3/4	5,053.95	3/4		3/4		3/4		3/4		3/4	
1	3,645.52	1	4,007.01	1	4,368.50	1	4,724.05	1	5,060.75	1		1		1		1		1	
1/4	3,653.06	1/4	4,014.54	1/4	4,376.03	1/4	4,731.24	1/4	5,067.51	1/4		1/4		1/4		1/4		1/4	
1/2	3,660.59	1/2	4,022.07	1/2	4,383.56	1/2	4,738.43	1/2	5,074.27	1/2		1/2		1/2		1/2		1/2	
3/4	3,668.12	3/4	4,029.61	3/4	4,391.09	3/4	4,745.61	3/4	5,081.04	3/4		3/4		3/4		3/4		3/4	
2	3,675.65	2	4,037.14	2	4,398.62	2	4,752.80	2	5,087.80	2		2		2		2		2	
1/4	3,683.18	1/4	4,044.67	1/4	4,406.16	1/4	4,759.96	1/4	5,094.53	1/4		1/4		1/4		1/4		1/4	
1/2	3,690.71	1/2	4,052.20	1/2	4,413.69	1/2	4,767.12	1/2	5,101.26	1/2		1/2		1/2		1/2		1/2	
3/4	3,698.24	3/4	4,059.73	3/4	4,421.22	3/4	4,774.28	3/4	5,108.00	3/4		3/4		3/4		3/4		3/4	
3	3,705.77	3	4,067.26	3	4,428.75	3	4,781.44	3	5,114.73	3		3		3		3		3	
1/4	3,713.30	1/4	4,074.79	1/4	4,436.27	1/4	4,788.57	1/4	5,121.42	1/4		1/4		1/4		1/4		1/4	
1/2	3,720.83	1/2	4,082.32	1/2	4,443.79	1/2	4,795.70	1/2	5,128.11	1/2		1/2		1/2		1/2		1/2	
3/4	3,728.37	3/4	4,089.85	3/4	4,451.30	3/4	4,802.83	3/4	5,134.81	3/4		3/4		3/4		3/4		3/4	
4	3,735.90	4	4,097.38	4	4,458.82	4	4,809.96	4	5,141.50	4		4		4		4		4	
1/4	3,743.43	1/4	4,104.92	1/4	4,466.31	1/4	4,817.06	1/4	5,148.14	1/4		1/4		1/4		1/4		1/4	
1/2	3,750.96	1/2	4,112.45	1/2	4,473.80	1/2	4,824.16	1/2	5,154.78	1/2		1/2		1/2		1/2		1/2	
3/4	3,758.49	3/4	4,119.98	3/4	4,481.28	3/4	4,831.26	3/4	5,161.42	3/4		3/4		3/4		3/4		3/4	
5	3,766.02	5	4,127.51	5	4,488.77	5	4,838.36	5	5,168.05	5		5		5		5		5	
1/4	3,773.55	1/4	4,135.04	1/4	4,496.22	1/4	4,845.43	1/4	5,174.07	1/4		1/4		1/4		1/4		1/4	
1/2	3,781.08	1/2	4,142.57	1/2	4,503.68	1/2	4,852.50	1/2	5,180.08	1/2		1/2		1/2		1/2		1/2	
3/4	3,788.61	3/4	4,150.10	3/4	4,511.14	3/4	4,859.57	3/4	5,186.10	3/4		3/4		3/4		3/4		3/4	
6	3,796.14	6	4,157.63	6	4,518.59	6	4,866.64	6	5,192.11	6		6		6		6		6	
1/4	3,803.68	1/4	4,165.16	1/4	4,526.02	1/4	4,873.68	1/4	5,197.66	1/4		1/4		1/4		1/4		1/4	
1/2	3,811.21	1/2	4,172.69	1/2	4,533.45	1/2	4,880.73	1/2	5,203.21	1/2		1/2		1/2		1/2		1/2	
3/4	3,818.74	3/4	4,180.23	3/4	4,540.88	3/4	4,887.77	3/4	5,208.76	3/4		3/4		3/4		3/4		3/4	
7	3,826.27	7	4,187.76	7	4,548.30	7	4,894.81	7	5,214.30	7		7		7		7		7	
1/4	3,833.80	1/4	4,195.29	1/4	4,555.70	1/4	4,901.82	1/4	5,218.63	1/4		1/4		1/4		1/4		1/4	
1/2	3,841.33	1/2	4,202.82	1/2	4,563.10	1/2	4,908.83	1/2	5,222.95	1/2		1/2		1/2		1/2		1/2	
3/4	3,848.86	3/4	4,210.35	3/4	4,570.49	3/4	4,915.84	3/4	5,227.27	3/4		3/4		3/4		3/4		3/4	
8	3,856.39	8	4,217.88	8	4,577.89	8	4,922.85	8	5,231.59	8		8		8		8		8	
1/4	3,863.92	1/4	4,225.41	1/4	4,585.26	1/4	4,929.83	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,871.45	1/2	4,232.94	1/2	4,592.63	1/2	4,936.81	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,878.99	3/4	4,240.47	3/4	4,599.99	3/4	4,943.79	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,886.52	9	4,248.00	9	4,607.36	9	4,950.77	9		9		9		9		9		9	
1/4	3,894.05	1/4	4,255.54	1/4	4,614.70	1/4	4,957.73	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,901.58	1/2	4,263.07	1/2	4,622.03	1/2	4,964.68	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,909.11	3/4	4,270.60	3/4	4,629.37	3/4	4,971.64	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,916.64	10	4,278.13	10	4,636.71	10	4,978.59	10		10		10		10		10		10	
1/4	3,924.17	1/4	4,285.66	1/4	4,644.02	1/4	4,985.51	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,931.70	1/2	4,293.19	1/2	4,651.33	1/2	4,992.44	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,939.23	3/4	4,300.72	3/4	4,658.63	3/4	4,999.36	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,946.76	11	4,308.25	11	4,665.94	11	5,006.29	11		11		11		11		11		11	
1/4	3,954.30	1/4	4,315.78	1/4	4,673.22	1/4	5,013.11	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,961.83	1/2	4,323.31	1/2	4,680.50	1/2	5,019.93	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,969.36	3/4	4,330.85	3/4	4,687.78	3/4	5,026.75	3/4		3/4		3/4		3/4		3/4		3/4	

STRAPPED: 09/04/2013 CL
CALCULATED: 09/05/2013 CL
PRINTED: 09/05/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2013

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
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BARGE "HSM 1001"

2 STBD

INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	22.89	0	361.48	0	722.88	0	1,076.08	0	1,429.30	0	1,790.70	0	2,152.11	0	2,513.52	0	2,874.82	0	3,236.09
1/4	27.28	1/4	369.01	1/4	730.41	1/4	1,083.27	1/4	1,436.83	1/4	1,798.23	1/4	2,159.64	1/4	2,521.05	1/4	2,882.35	1/4	3,243.62
1/2	31.67	1/2	376.54	1/2	737.93	1/2	1,090.45	1/2	1,444.36	1/2	1,805.76	1/2	2,167.17	1/2	2,528.58	1/2	2,889.88	1/2	3,251.15
3/4	36.06	3/4	384.07	3/4	745.46	3/4	1,097.64	3/4	1,451.89	3/4	1,813.29	3/4	2,174.70	3/4	2,536.10	3/4	2,897.40	3/4	3,258.67
1	40.45	1	391.60	1	752.99	1	1,104.82	1	1,459.41	1	1,820.82	1	2,182.23	1	2,543.63	1	2,904.93	1	3,266.20
1/4	46.09	1/4	399.13	1/4	760.52	1/4	1,112.01	1/4	1,466.94	1/4	1,828.35	1/4	2,189.76	1/4	2,551.16	1/4	2,912.45	1/4	3,273.73
1/2	51.74	1/2	406.66	1/2	768.05	1/2	1,119.20	1/2	1,474.47	1/2	1,835.88	1/2	2,197.29	1/2	2,558.69	1/2	2,919.98	1/2	3,281.25
3/4	57.39	3/4	414.19	3/4	775.58	3/4	1,126.38	3/4	1,482.00	3/4	1,843.41	3/4	2,204.82	3/4	2,566.22	3/4	2,927.51	3/4	3,288.78
2	63.03	2	421.72	2	783.11	2	1,133.57	2	1,489.53	2	1,850.94	2	2,212.34	2	2,573.75	2	2,935.03	2	3,296.31
1/4	69.93	1/4	429.25	1/4	790.64	1/4	1,140.75	1/4	1,497.06	1/4	1,858.47	1/4	2,219.87	1/4	2,581.28	1/4	2,942.56	1/4	3,303.83
1/2	76.83	1/2	436.77	1/2	798.17	1/2	1,147.94	1/2	1,504.59	1/2	1,866.00	1/2	2,227.40	1/2	2,588.81	1/2	2,950.09	1/2	3,311.36
3/4	83.73	3/4	444.30	3/4	805.70	3/4	1,155.13	3/4	1,512.12	3/4	1,873.53	3/4	2,234.93	3/4	2,596.34	3/4	2,957.61	3/4	3,318.89
3	90.63	3	451.83	3	813.22	3	1,162.31	3	1,519.65	3	1,881.06	3	2,242.46	3	2,603.87	3	2,965.14	3	3,326.41
1/4	98.12	1/4	459.36	1/4	820.75	1/4	1,169.50	1/4	1,527.18	1/4	1,888.58	1/4	2,249.99	1/4	2,611.39	1/4	2,972.67	1/4	3,333.94
1/2	105.62	1/2	466.89	1/2	828.28	1/2	1,176.68	1/2	1,534.71	1/2	1,896.11	1/2	2,257.52	1/2	2,618.92	1/2	2,980.19	1/2	3,341.47
3/4	113.11	3/4	474.42	3/4	835.81	3/4	1,183.87	3/4	1,542.24	3/4	1,903.64	3/4	2,265.05	3/4	2,626.45	3/4	2,987.72	3/4	3,348.99
4	120.60	4	481.95	4	843.34	4	1,191.06	4	1,549.77	4	1,911.17	4	2,272.58	4	2,633.97	4	2,995.25	4	3,356.52
1/4	128.12	1/4	489.48	1/4	850.87	1/4	1,198.24	1/4	1,557.30	1/4	1,918.70	1/4	2,280.11	1/4	2,641.50	1/4	3,002.77	1/4	3,364.04
1/2	135.64	1/2	497.01	1/2	858.40	1/2	1,205.43	1/2	1,564.82	1/2	1,926.23	1/2	2,287.64	1/2	2,649.03	1/2	3,010.30	1/2	3,371.57
3/4	143.16	3/4	504.54	3/4	865.93	3/4	1,212.61	3/4	1,572.35	3/4	1,933.76	3/4	2,295.17	3/4	2,656.55	3/4	3,017.83	3/4	3,379.10
5	150.68	5	512.06	5	873.46	5	1,219.80	5	1,579.88	5	1,941.29	5	2,302.70	5	2,664.08	5	3,025.35	5	3,386.62
1/4	158.21	1/4	519.59	1/4	880.99	1/4	1,227.00	1/4	1,587.41	1/4	1,948.82	1/4	2,310.23	1/4	2,671.61	1/4	3,032.88	1/4	3,394.15
1/2	165.73	1/2	527.12	1/2	888.51	1/2	1,234.20	1/2	1,594.94	1/2	1,956.35	1/2	2,317.75	1/2	2,679.13	1/2	3,040.41	1/2	3,401.68
3/4	173.26	3/4	534.65	3/4	896.04	3/4	1,241.40	3/4	1,602.47	3/4	1,963.88	3/4	2,325.28	3/4	2,686.66	3/4	3,047.93	3/4	3,409.20
6	180.79	6	542.18	6	903.57	6	1,248.59	6	1,610.00	6	1,971.41	6	2,332.81	6	2,694.19	6	3,055.46	6	3,416.73
1/4	188.32	1/4	549.71	1/4	910.77	1/4	1,256.12	1/4	1,617.53	1/4	1,978.94	1/4	2,340.34	1/4	2,701.71	1/4	3,062.98	1/4	3,424.26
1/2	195.85	1/2	557.24	1/2	917.97	1/2	1,263.65	1/2	1,625.06	1/2	1,986.47	1/2	2,347.87	1/2	2,709.24	1/2	3,070.51	1/2	3,431.78
3/4	203.38	3/4	564.77	3/4	925.16	3/4	1,271.18	3/4	1,632.59	3/4	1,994.00	3/4	2,355.40	3/4	2,716.77	3/4	3,078.04	3/4	3,439.31
7	210.90	7	572.30	7	932.36	7	1,278.71	7	1,640.12	7	2,001.52	7	2,362.93	7	2,724.29	7	3,085.56	7	3,446.84
1/4	218.43	1/4	579.83	1/4	939.55	1/4	1,286.24	1/4	1,647.65	1/4	2,009.05	1/4	2,370.46	1/4	2,731.82	1/4	3,093.09	1/4	3,454.36
1/2	225.96	1/2	587.35	1/2	946.73	1/2	1,293.77	1/2	1,655.18	1/2	2,016.58	1/2	2,377.99	1/2	2,739.35	1/2	3,100.62	1/2	3,461.89
3/4	233.49	3/4	594.88	3/4	953.92	3/4	1,301.30	3/4	1,662.71	3/4	2,024.11	3/4	2,385.52	3/4	2,746.87	3/4	3,108.14	3/4	3,469.42
8	241.02	8	602.41	8	961.10	8	1,308.83	8	1,670.24	8	2,031.64	8	2,393.05	8	2,754.40	8	3,115.67	8	3,476.94
1/4	248.55	1/4	609.94	1/4	968.29	1/4	1,316.36	1/4	1,677.76	1/4	2,039.17	1/4	2,400.58	1/4	2,761.92	1/4	3,123.20	1/4	3,484.47
1/2	256.08	1/2	617.47	1/2	975.48	1/2	1,323.89	1/2	1,685.29	1/2	2,046.70	1/2	2,408.11	1/2	2,769.45	1/2	3,130.72	1/2	3,492.00
3/4	263.61	3/4	625.00	3/4	982.66	3/4	1,331.42	3/4	1,692.82	3/4	2,054.23	3/4	2,415.64	3/4	2,776.98	3/4	3,138.25	3/4	3,499.52
9	271.14	9	632.53	9	989.85	9	1,338.95	9	1,700.35	9	2,061.76	9	2,423.17	9	2,784.50	9	3,145.78	9	3,507.05
1/4	278.67	1/4	640.06	1/4	997.03	1/4	1,346.48	1/4	1,707.88	1/4	2,069.29	1/4	2,430.69	1/4	2,792.03	1/4	3,153.30	1/4	3,514.57
1/2	286.19	1/2	647.59	1/2	1,004.22	1/2	1,354.00	1/2	1,715.41	1/2	2,076.82	1/2	2,438.22	1/2	2,799.56	1/2	3,160.83	1/2	3,522.10
3/4	293.72	3/4	655.12	3/4	1,011.41	3/4	1,361.53	3/4	1,722.94	3/4	2,084.35	3/4	2,445.75	3/4	2,807.08	3/4	3,168.36	3/4	3,529.63
10	301.25	10	662.64	10	1,018.59	10	1,369.06	10	1,730.47	10	2,091.88	10	2,453.28	10	2,814.61	10	3,175.88	10	3,537.15
1/4	308.78	1/4	670.17	1/4	1,025.78	1/4	1,376.59	1/4	1,738.00	1/4	2,099.41	1/4	2,460.81	1/4	2,822.14	1/4	3,183.41	1/4	3,544.68
1/2	316.31	1/2	677.70	1/2	1,032.96	1/2	1,384.12	1/2	1,745.53	1/2	2,106.93	1/2	2,468.34	1/2	2,829.66	1/2	3,190.94	1/2	3,552.21
3/4	323.84	3/4	685.23	3/4	1,040.15	3/4	1,391.65	3/4	1,753.06	3/4	2,114.46	3/4	2,475.87	3/4	2,837.19	3/4	3,198.46	3/4	3,559.73
11	331.37	11	692.76	11	1,047.34	11	1,399.18	11	1,760.59	11	2,121.99	11	2,483.40	11	2,844.72	11	3,205.99	11	3,567.26
1/4	338.90	1/4	700.29	1/4	1,054.52	1/4	1,406.71	1/4	1,768.12	1/4	2,129.52	1/4	2,490.93	1/4	2,852.24	1/4	3,213.51	1/4	3,574.79
1/2	346.43	1/2	707.82	1/2	1,061.71	1/2	1,414.24	1/2	1,775.65	1/2	2,137.05	1/2	2,498.46	1/2	2,859.77	1/2	3,221.04	1/2	3,582.31
3/4	353.96	3/4	715.35	3/4	1,068.89	3/4	1,421.77	3/4	1,783.17	3/4	2,144.58	3/4	2,505.99	3/4	2,867.30	3/4	3,228.57	3/4	3,589.84

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" HERMETIC CLOSED GAUGING VALVE.
GAUGE POINT: (HERMETIC) LOCATED 10'-06" 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 "HSM 1001"

2 STBD
INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 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	3,597.37	0	3,958.64	0	4,319.91	0	4,676.35	0	5,014.67	0		0		0		0		0	
1/4	3,604.89	1/4	3,966.16	1/4	4,327.44	1/4	4,683.59	1/4	5,021.46	1/4		1/4		1/4		1/4		1/4	
1/2	3,612.42	1/2	3,973.69	1/2	4,334.96	1/2	4,690.84	1/2	5,028.25	1/2		1/2		1/2		1/2		1/2	
3/4	3,619.95	3/4	3,981.22	3/4	4,342.49	3/4	4,698.08	3/4	5,035.04	3/4		3/4		3/4		3/4		3/4	
1	3,627.47	1	3,988.74	1	4,350.02	1	4,705.33	1	5,041.83	1		1		1		1		1	
1/4	3,635.00	1/4	3,996.27	1/4	4,357.54	1/4	4,712.51	1/4	5,048.59	1/4		1/4		1/4		1/4		1/4	
1/2	3,642.53	1/2	4,003.80	1/2	4,365.07	1/2	4,719.70	1/2	5,055.34	1/2		1/2		1/2		1/2		1/2	
3/4	3,650.05	3/4	4,011.32	3/4	4,372.60	3/4	4,726.88	3/4	5,062.10	3/4		3/4		3/4		3/4		3/4	
2	3,657.58	2	4,018.85	2	4,380.12	2	4,734.07	2	5,068.86	2		2		2		2		2	
1/4	3,665.10	1/4	4,026.38	1/4	4,387.65	1/4	4,741.22	1/4	5,075.59	1/4		1/4		1/4		1/4		1/4	
1/2	3,672.63	1/2	4,033.90	1/2	4,395.18	1/2	4,748.38	1/2	5,082.32	1/2		1/2		1/2		1/2		1/2	
3/4	3,680.16	3/4	4,041.43	3/4	4,402.70	3/4	4,755.53	3/4	5,089.05	3/4		3/4		3/4		3/4		3/4	
3	3,687.68	3	4,048.96	3	4,410.23	3	4,762.69	3	5,095.77	3		3		3		3		3	
1/4	3,695.21	1/4	4,056.48	1/4	4,417.74	1/4	4,769.81	1/4	5,102.46	1/4		1/4		1/4		1/4		1/4	
1/2	3,702.74	1/2	4,064.01	1/2	4,425.24	1/2	4,776.94	1/2	5,109.15	1/2		1/2		1/2		1/2		1/2	
3/4	3,710.26	3/4	4,071.54	3/4	4,432.75	3/4	4,784.06	3/4	5,115.84	3/4		3/4		3/4		3/4		3/4	
4	3,717.79	4	4,079.06	4	4,440.26	4	4,791.19	4	5,122.53	4		4		4		4		4	
1/4	3,725.32	1/4	4,086.59	1/4	4,447.74	1/4	4,798.29	1/4	5,129.17	1/4		1/4		1/4		1/4		1/4	
1/2	3,732.84	1/2	4,094.12	1/2	4,455.22	1/2	4,805.38	1/2	5,135.80	1/2		1/2		1/2		1/2		1/2	
3/4	3,740.37	3/4	4,101.64	3/4	4,462.71	3/4	4,812.48	3/4	5,142.43	3/4		3/4		3/4		3/4		3/4	
5	3,747.90	5	4,109.17	5	4,470.19	5	4,819.57	5	5,149.07	5		5		5		5		5	
1/4	3,755.42	1/4	4,116.69	1/4	4,477.64	1/4	4,826.64	1/4	5,155.08	1/4		1/4		1/4		1/4		1/4	
1/2	3,762.95	1/2	4,124.22	1/2	4,485.09	1/2	4,833.71	1/2	5,161.09	1/2		1/2		1/2		1/2		1/2	
3/4	3,770.48	3/4	4,131.75	3/4	4,492.54	3/4	4,840.77	3/4	5,167.10	3/4		3/4		3/4		3/4		3/4	
6	3,778.00	6	4,139.27	6	4,500.00	6	4,847.84	6	5,173.11	6		6		6		6		6	
1/4	3,785.53	1/4	4,146.80	1/4	4,507.42	1/4	4,854.87	1/4	5,178.66	1/4		1/4		1/4		1/4		1/4	
1/2	3,793.06	1/2	4,154.33	1/2	4,514.84	1/2	4,861.91	1/2	5,184.20	1/2		1/2		1/2		1/2		1/2	
3/4	3,800.58	3/4	4,161.85	3/4	4,522.26	3/4	4,868.95	3/4	5,189.75	3/4		3/4		3/4		3/4		3/4	
7	3,808.11	7	4,169.38	7	4,529.69	7	4,875.98	7	5,195.29	7		7		7		7		7	
1/4	3,815.63	1/4	4,176.91	1/4	4,537.08	1/4	4,882.99	1/4	5,199.61	1/4		1/4		1/4		1/4		1/4	
1/2	3,823.16	1/2	4,184.43	1/2	4,544.47	1/2	4,890.00	1/2	5,203.93	1/2		1/2		1/2		1/2		1/2	
3/4	3,830.69	3/4	4,191.96	3/4	4,551.86	3/4	4,897.00	3/4	5,208.25	3/4		3/4		3/4		3/4		3/4	
8	3,838.21	8	4,199.49	8	4,559.26	8	4,904.01	8	5,212.57	8		8		8		8		8	
1/4	3,845.74	1/4	4,207.01	1/4	4,566.62	1/4	4,910.99	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,853.27	1/2	4,214.54	1/2	4,573.98	1/2	4,917.96	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,860.79	3/4	4,222.07	3/4	4,581.35	3/4	4,924.94	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,868.32	9	4,229.59	9	4,588.71	9	4,931.92	9		9		9		9		9		9	
1/4	3,875.85	1/4	4,237.12	1/4	4,596.04	1/4	4,938.87	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,883.37	1/2	4,244.65	1/2	4,603.37	1/2	4,945.82	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,890.90	3/4	4,252.17	3/4	4,610.71	3/4	4,952.77	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,898.43	10	4,259.70	10	4,618.04	10	4,959.72	10		10		10		10		10		10	
1/4	3,905.95	1/4	4,267.22	1/4	4,625.34	1/4	4,966.64	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,913.48	1/2	4,274.75	1/2	4,632.65	1/2	4,973.56	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,921.01	3/4	4,282.28	3/4	4,639.95	3/4	4,980.48	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,928.53	11	4,289.80	11	4,647.25	11	4,987.40	11		11		11		11		11		11	
1/4	3,936.06	1/4	4,297.33	1/4	4,654.53	1/4	4,994.21	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,943.59	1/2	4,304.86	1/2	4,661.80	1/2	5,001.03	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,951.11	3/4	4,312.38	3/4	4,669.08	3/4	5,007.85	3/4		3/4		3/4		3/4		3/4		3/4	

STRAPPED: 09/04/2013 CL
CALCULATED: 09/05/2013 CL
PRINTED: 09/05/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2013

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "HSM 1001"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 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	22.80	0	360.06	0	720.02	0	1,079.78	0	1,439.59	0	1,799.57	0	2,159.52	0	2,519.41	0	2,879.11	0	3,237.91
1/4	27.17	1/4	367.56	1/4	727.52	1/4	1,087.27	1/4	1,447.09	1/4	1,807.07	1/4	2,167.02	1/4	2,526.91	1/4	2,886.59	1/4	3,245.36
1/2	31.55	1/2	375.06	1/2	735.02	1/2	1,094.76	1/2	1,454.59	1/2	1,814.57	1/2	2,174.51	1/2	2,534.41	1/2	2,894.08	1/2	3,252.81
3/4	35.92	3/4	382.56	3/4	742.52	3/4	1,102.25	3/4	1,462.09	3/4	1,822.07	3/4	2,182.01	3/4	2,541.91	3/4	2,901.56	3/4	3,260.26
1	40.29	1	390.06	1	750.02	1	1,109.74	1	1,469.59	1	1,829.57	1	2,189.51	1	2,549.40	1	2,909.05	1	3,267.71
1/4	45.92	1/4	397.56	1/4	757.52	1/4	1,117.23	1/4	1,477.09	1/4	1,837.07	1/4	2,197.01	1/4	2,556.90	1/4	2,916.53	1/4	3,275.16
1/2	51.54	1/2	405.06	1/2	765.02	1/2	1,124.72	1/2	1,484.59	1/2	1,844.57	1/2	2,204.51	1/2	2,564.40	1/2	2,924.01	1/2	3,282.61
3/4	57.16	3/4	412.55	3/4	772.52	3/4	1,132.21	3/4	1,492.09	3/4	1,852.07	3/4	2,212.00	3/4	2,571.90	3/4	2,931.50	3/4	3,290.06
2	62.79	2	420.05	2	780.02	2	1,139.70	2	1,499.59	2	1,859.57	2	2,219.50	2	2,579.40	2	2,938.98	2	3,297.51
1/4	69.66	1/4	427.55	1/4	787.51	1/4	1,147.19	1/4	1,507.09	1/4	1,867.07	1/4	2,227.00	1/4	2,586.89	1/4	2,946.46	1/4	3,304.96
1/2	76.53	1/2	435.05	1/2	795.01	1/2	1,154.68	1/2	1,514.59	1/2	1,874.57	1/2	2,234.50	1/2	2,594.39	1/2	2,953.95	1/2	3,312.41
3/4	83.40	3/4	442.55	3/4	802.51	3/4	1,162.17	3/4	1,522.09	3/4	1,882.06	3/4	2,241.99	3/4	2,601.89	3/4	2,961.43	3/4	3,319.85
3	90.28	3	450.05	3	810.01	3	1,169.66	3	1,529.59	3	1,889.56	3	2,249.49	3	2,609.39	3	2,968.91	3	3,327.30
1/4	97.74	1/4	457.55	1/4	817.51	1/4	1,177.15	1/4	1,537.09	1/4	1,897.06	1/4	2,256.99	1/4	2,616.88	1/4	2,976.40	1/4	3,334.77
1/2	105.20	1/2	465.05	1/2	825.01	1/2	1,184.64	1/2	1,544.59	1/2	1,904.56	1/2	2,264.49	1/2	2,624.38	1/2	2,983.88	1/2	3,342.23
3/4	112.67	3/4	472.55	3/4	832.51	3/4	1,192.13	3/4	1,552.09	3/4	1,912.06	3/4	2,271.99	3/4	2,631.88	3/4	2,991.37	3/4	3,349.70
4	120.13	4	480.05	4	840.01	4	1,199.62	4	1,559.59	4	1,919.56	4	2,279.48	4	2,639.37	4	2,998.85	4	3,357.16
1/4	127.62	1/4	487.55	1/4	847.51	1/4	1,207.12	1/4	1,567.09	1/4	1,927.06	1/4	2,286.98	1/4	2,646.87	1/4	3,006.33	1/4	3,364.63
1/2	135.11	1/2	495.05	1/2	855.01	1/2	1,214.62	1/2	1,574.59	1/2	1,934.56	1/2	2,294.48	1/2	2,654.37	1/2	3,013.82	1/2	3,372.09
3/4	142.60	3/4	502.54	3/4	862.51	3/4	1,222.11	3/4	1,582.08	3/4	1,942.06	3/4	2,301.98	3/4	2,661.86	3/4	3,021.30	3/4	3,379.56
5	150.09	5	510.04	5	870.01	5	1,229.61	5	1,589.58	5	1,949.56	5	2,309.48	5	2,669.36	5	3,028.78	5	3,387.02
1/4	157.59	1/4	517.54	1/4	877.50	1/4	1,237.11	1/4	1,597.08	1/4	1,957.06	1/4	2,316.97	1/4	2,676.85	1/4	3,036.27	1/4	3,394.49
1/2	165.08	1/2	525.04	1/2	885.00	1/2	1,244.61	1/2	1,604.58	1/2	1,964.56	1/2	2,324.47	1/2	2,684.35	1/2	3,043.75	1/2	3,401.95
3/4	172.58	3/4	532.54	3/4	892.50	3/4	1,252.11	3/4	1,612.08	3/4	1,972.06	3/4	2,331.97	3/4	2,691.85	3/4	3,051.23	3/4	3,409.42
6	180.08	6	540.04	6	900.00	6	1,259.61	6	1,619.58	6	1,979.56	6	2,339.47	6	2,699.34	6	3,058.72	6	3,416.88
1/4	187.58	1/4	547.54	1/4	907.50	1/4	1,267.11	1/4	1,627.08	1/4	1,987.06	1/4	2,346.96	1/4	2,706.84	1/4	3,066.20	1/4	3,424.35
1/2	195.08	1/2	555.04	1/2	914.99	1/2	1,274.61	1/2	1,634.58	1/2	1,994.56	1/2	2,354.46	1/2	2,714.34	1/2	3,073.68	1/2	3,431.81
3/4	202.58	3/4	562.54	3/4	922.48	3/4	1,282.10	3/4	1,642.08	3/4	2,002.06	3/4	2,361.96	3/4	2,721.83	3/4	3,081.17	3/4	3,439.28
7	210.08	7	570.04	7	929.98	7	1,289.60	7	1,649.58	7	2,009.56	7	2,369.46	7	2,729.33	7	3,088.65	7	3,446.74
1/4	217.58	1/4	577.54	1/4	937.47	1/4	1,297.10	1/4	1,657.08	1/4	2,017.06	1/4	2,376.96	1/4	2,736.83	1/4	3,096.14	1/4	3,454.21
1/2	225.07	1/2	585.04	1/2	944.96	1/2	1,304.60	1/2	1,664.58	1/2	2,024.56	1/2	2,384.45	1/2	2,744.32	1/2	3,103.62	1/2	3,461.67
3/4	232.57	3/4	592.54	3/4	952.45	3/4	1,312.10	3/4	1,672.08	3/4	2,032.05	3/4	2,391.95	3/4	2,751.82	3/4	3,111.10	3/4	3,469.14
8	240.07	8	600.03	8	959.94	8	1,319.60	8	1,679.58	8	2,039.55	8	2,399.45	8	2,759.32	8	3,118.59	8	3,476.60
1/4	247.57	1/4	607.53	1/4	967.43	1/4	1,327.10	1/4	1,687.08	1/4	2,047.05	1/4	2,406.95	1/4	2,766.81	1/4	3,126.07	1/4	3,484.07
1/2	255.07	1/2	615.03	1/2	974.92	1/2	1,334.60	1/2	1,694.58	1/2	2,054.55	1/2	2,414.44	1/2	2,774.31	1/2	3,133.55	1/2	3,491.53
3/4	262.57	3/4	622.53	3/4	982.41	3/4	1,342.10	3/4	1,702.08	3/4	2,062.05	3/4	2,421.94	3/4	2,781.81	3/4	3,141.04	3/4	3,499.00
9	270.07	9	630.03	9	989.90	9	1,349.60	9	1,709.58	9	2,069.55	9	2,429.44	9	2,789.31	9	3,148.52	9	3,506.46
1/4	277.57	1/4	637.53	1/4	997.39	1/4	1,357.10	1/4	1,717.08	1/4	2,077.04	1/4	2,436.94	1/4	2,796.79	1/4	3,155.97	1/4	3,510.50
1/2	285.07	1/2	645.03	1/2	1,004.88	1/2	1,364.60	1/2	1,724.58	1/2	2,084.54	1/2	2,444.44	1/2	2,804.28	1/2	3,163.42	1/2	3,514.53
3/4	292.57	3/4	652.53	3/4	1,012.37	3/4	1,372.10	3/4	1,732.07	3/4	2,092.04	3/4	2,451.93	3/4	2,811.76	3/4	3,170.87	3/4	3,518.56
10	300.07	10	660.03	10	1,019.86	10	1,379.60	10	1,739.57	10	2,099.54	10	2,459.43	10	2,819.24	10	3,178.32	10	3,522.60
1/4	307.57	1/4	667.53	1/4	1,027.35	1/4	1,387.10	1/4	1,747.07	1/4	2,107.03	1/4	2,466.93	1/4	2,826.73	1/4	3,185.77	1/4	3,526.63
1/2	315.06	1/2	675.03	1/2	1,034.84	1/2	1,394.60	1/2	1,754.57	1/2	2,114.53	1/2	2,474.43	1/2	2,834.21	1/2	3,193.22	1/2	3,530.66
3/4	322.56	3/4	682.53	3/4	1,042.33	3/4	1,402.10	3/4	1,762.07	3/4	2,122.03	3/4	2,481.92	3/4	2,841.69	3/4	3,200.67	3/4	3,534.69
11	330.06	11	690.02	11	1,049.82	11	1,409.60	11	1,769.57	11	2,129.53	11	2,489.42	11	2,849.18	11	3,208.12	11	3,538.73
1/4	337.56	1/4	697.52	1/4	1,057.31	1/4	1,417.10	1/4	1,777.07	1/4	2,137.03	1/4	2,496.92	1/4	2,856.66	1/4	3,215.56	1/4	3,542.76
1/2	345.06	1/2	705.02	1/2	1,064.80	1/2	1,424.60	1/2	1,784.57	1/2	2,144.52	1/2	2,504.42	1/2	2,864.14	1/2	3,223.01	1/2	3,546.79
3/4	352.56	3/4	712.52	3/4	1,072.29	3/4	1,432.09	3/4	1,792.07	3/4	2,152.02	3/4	2,511.92	3/4	2,871.63	3/4	3,230.46	3/4	3,550.83

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" HERMETIC CLOSED GAUGING VALVE.
GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 55'-00" FORWARD OF AFT BULKHEAD.

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



BARGE "HSM 1001"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 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	3,554.86	0	3,748.44	0	3,942.02	0	4,133.02	0	4,314.36	0		0		0		0		0	
1/4	3,558.89	1/4	3,752.47	1/4	3,946.05	1/4	4,136.90	1/4	4,318.00	1/4		1/4		1/4		1/4		1/4	
1/2	3,562.92	1/2	3,756.50	1/2	3,950.08	1/2	4,140.78	1/2	4,321.64	1/2		1/2		1/2		1/2		1/2	
3/4	3,566.96	3/4	3,760.54	3/4	3,954.12	3/4	4,144.66	3/4	4,325.27	3/4		3/4		3/4		3/4		3/4	
1	3,570.99	1	3,764.57	1	3,958.15	1	4,148.55	1	4,328.91	1		1		1		1		1	
1/4	3,575.02	1/4	3,768.60	1/4	3,962.18	1/4	4,152.40	1/4	4,332.53	1/4		1/4		1/4		1/4		1/4	
1/2	3,579.06	1/2	3,772.64	1/2	3,966.21	1/2	4,156.25	1/2	4,336.16	1/2		1/2		1/2		1/2		1/2	
3/4	3,583.09	3/4	3,776.67	3/4	3,970.25	3/4	4,160.10	3/4	4,339.78	3/4		3/4		3/4		3/4		3/4	
2	3,587.12	2	3,780.70	2	3,974.28	2	4,163.95	2	4,343.40	2		2		2		2		2	
1/4	3,591.15	1/4	3,784.73	1/4	3,978.31	1/4	4,167.79	1/4	4,347.01	1/4		1/4		1/4		1/4		1/4	
1/2	3,595.19	1/2	3,788.77	1/2	3,982.35	1/2	4,171.62	1/2	4,350.61	1/2		1/2		1/2		1/2		1/2	
3/4	3,599.22	3/4	3,792.80	3/4	3,986.38	3/4	4,175.46	3/4	4,354.22	3/4		3/4		3/4		3/4		3/4	
3	3,603.25	3	3,796.83	3	3,990.41	3	4,179.29	3	4,357.82	3		3		3		3		3	
1/4	3,607.29	1/4	3,800.87	1/4	3,994.44	1/4	4,183.11	1/4	4,361.40	1/4		1/4		1/4		1/4		1/4	
1/2	3,611.32	1/2	3,804.90	1/2	3,998.46	1/2	4,186.93	1/2	4,364.98	1/2		1/2		1/2		1/2		1/2	
3/4	3,615.35	3/4	3,808.93	3/4	4,002.48	3/4	4,190.75	3/4	4,368.56	3/4		3/4		3/4		3/4		3/4	
4	3,619.39	4	3,812.96	4	4,006.51	4	4,194.57	4	4,372.14	4		4		4		4		4	
1/4	3,623.42	1/4	3,817.00	1/4	4,010.52	1/4	4,198.38	1/4	4,375.68	1/4		1/4		1/4		1/4		1/4	
1/2	3,627.45	1/2	3,821.03	1/2	4,014.53	1/2	4,202.18	1/2	4,379.22	1/2		1/2		1/2		1/2		1/2	
3/4	3,631.48	3/4	3,825.06	3/4	4,018.54	3/4	4,205.98	3/4	4,382.76	3/4		3/4		3/4		3/4		3/4	
5	3,635.52	5	3,829.10	5	4,022.54	5	4,209.79	5	4,386.30	5		5		5		5		5	
1/4	3,639.55	1/4	3,833.13	1/4	4,026.54	1/4	4,213.58	1/4	4,389.23	1/4		1/4		1/4		1/4		1/4	
1/2	3,643.58	1/2	3,837.16	1/2	4,030.53	1/2	4,217.36	1/2	4,392.16	1/2		1/2		1/2		1/2		1/2	
3/4	3,647.62	3/4	3,841.19	3/4	4,034.52	3/4	4,221.15	3/4	4,395.10	3/4		3/4		3/4		3/4		3/4	
6	3,651.65	6	3,845.23	6	4,038.52	6	4,224.94	6	4,398.03	6		6		6		6		6	
1/4	3,655.68	1/4	3,849.26	1/4	4,042.49	1/4	4,228.71	1/4	4,400.14	1/4		1/4		1/4		1/4		1/4	
1/2	3,659.71	1/2	3,853.29	1/2	4,046.47	1/2	4,232.48	1/2	4,402.24	1/2		1/2		1/2		1/2		1/2	
3/4	3,663.75	3/4	3,857.33	3/4	4,050.45	3/4	4,236.25	3/4	4,404.35	3/4		3/4		3/4		3/4		3/4	
7	3,667.78	7	3,861.36	7	4,054.43	7	4,240.03	7	4,406.45	7		7		7		7		7	
1/4	3,671.81	1/4	3,865.39	1/4	4,058.39	1/4	4,243.78	1/4	4,407.32	1/4		1/4		1/4		1/4		1/4	
1/2	3,675.85	1/2	3,869.43	1/2	4,062.35	1/2	4,247.54	1/2	4,408.19	1/2		1/2		1/2		1/2		1/2	
3/4	3,679.88	3/4	3,873.46	3/4	4,066.31	3/4	4,251.30	3/4	4,409.06	3/4		3/4		3/4		3/4		3/4	
8	3,683.91	8	3,877.49	8	4,070.27	8	4,255.05	8	4,409.93	8		8		8		8		8	
1/4	3,687.94	1/4	3,881.52	1/4	4,074.22	1/4	4,258.79	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,691.98	1/2	3,885.56	1/2	4,078.16	1/2	4,262.53	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,696.01	3/4	3,889.59	3/4	4,082.11	3/4	4,266.27	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,700.04	9	3,893.62	9	4,086.05	9	4,270.01	9		9		9		9		9		9	
1/4	3,704.08	1/4	3,897.66	1/4	4,089.98	1/4	4,273.74	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,708.11	1/2	3,901.69	1/2	4,093.91	1/2	4,277.46	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,712.14	3/4	3,905.72	3/4	4,097.84	3/4	4,281.19	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,716.17	10	3,909.75	10	4,101.77	10	4,284.91	10		10		10		10		10		10	
1/4	3,720.21	1/4	3,913.79	1/4	4,105.69	1/4	4,288.62	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,724.24	1/2	3,917.82	1/2	4,109.60	1/2	4,292.33	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,728.27	3/4	3,921.85	3/4	4,113.51	3/4	4,296.03	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,732.31	11	3,925.89	11	4,117.43	11	4,299.74	11		11		11		11		11		11	
1/4	3,736.34	1/4	3,929.92	1/4	4,121.32	1/4	4,303.40	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,740.37	1/2	3,933.95	1/2	4,125.22	1/2	4,307.05	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,744.41	3/4	3,937.98	3/4	4,129.12	3/4	4,310.71	3/4		3/4		3/4		3/4		3/4		3/4	

STRAPPED: 09/04/2013 CL
CALCULATED: 09/05/2013 CL
PRINTED: 09/05/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2013

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BARGE "HSM 1001"

3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 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	22.81	0	359.67	0	719.20	0	1,067.01	0	1,420.09	0	1,779.03	0	2,138.44	0	2,497.79	0	2,856.94	0	3,215.02
1/4	27.18	1/4	367.16	1/4	726.69	1/4	1,074.16	1/4	1,427.52	1/4	1,786.52	1/4	2,145.92	1/4	2,505.27	1/4	2,864.41	1/4	3,222.46
1/2	31.56	1/2	374.65	1/2	734.18	1/2	1,081.31	1/2	1,434.94	1/2	1,794.01	1/2	2,153.41	1/2	2,512.76	1/2	2,871.89	1/2	3,229.90
3/4	35.93	3/4	382.14	3/4	741.67	3/4	1,088.47	3/4	1,442.37	3/4	1,801.49	3/4	2,160.90	3/4	2,520.25	3/4	2,879.36	3/4	3,237.33
1	40.31	1	389.63	1	749.16	1	1,095.62	1	1,449.80	1	1,808.98	1	2,168.38	1	2,527.73	1	2,886.83	1	3,244.77
1/4	45.92	1/4	397.12	1/4	756.65	1/4	1,102.77	1/4	1,457.22	1/4	1,816.47	1/4	2,175.87	1/4	2,535.22	1/4	2,894.30	1/4	3,252.21
1/2	51.54	1/2	404.61	1/2	764.14	1/2	1,109.93	1/2	1,464.65	1/2	1,823.96	1/2	2,183.35	1/2	2,542.71	1/2	2,901.76	1/2	3,259.65
3/4	57.15	3/4	412.10	3/4	771.63	3/4	1,117.08	3/4	1,472.07	3/4	1,831.45	3/4	2,190.84	3/4	2,550.19	3/4	2,909.22	3/4	3,267.09
2	62.77	2	419.59	2	779.12	2	1,124.23	2	1,479.50	2	1,838.94	2	2,198.33	2	2,557.68	2	2,916.69	2	3,274.53
1/4	69.62	1/4	427.08	1/4	786.61	1/4	1,131.38	1/4	1,486.99	1/4	1,846.42	1/4	2,205.81	1/4	2,565.17	1/4	2,924.15	1/4	3,281.96
1/2	76.47	1/2	434.57	1/2	794.10	1/2	1,138.54	1/2	1,494.48	1/2	1,853.91	1/2	2,213.30	1/2	2,572.65	1/2	2,931.62	1/2	3,289.40
3/4	83.33	3/4	442.06	3/4	801.59	3/4	1,145.69	3/4	1,501.97	3/4	1,861.40	3/4	2,220.79	3/4	2,580.14	3/4	2,939.08	3/4	3,296.84
3	90.18	3	449.55	3	809.08	3	1,152.84	3	1,509.45	3	1,868.89	3	2,228.27	3	2,587.63	3	2,946.55	3	3,304.28
1/4	97.63	1/4	457.04	1/4	816.29	1/4	1,160.28	1/4	1,516.94	1/4	1,876.38	1/4	2,235.76	1/4	2,595.11	1/4	2,954.01	1/4	3,311.73
1/2	105.09	1/2	464.53	1/2	823.50	1/2	1,167.71	1/2	1,524.43	1/2	1,883.86	1/2	2,243.25	1/2	2,602.60	1/2	2,961.48	1/2	3,319.18
3/4	112.54	3/4	472.02	3/4	830.70	3/4	1,175.15	3/4	1,531.92	3/4	1,891.35	3/4	2,250.73	3/4	2,610.08	3/4	2,968.94	3/4	3,326.64
4	120.00	4	479.51	4	837.91	4	1,182.59	4	1,539.41	4	1,898.84	4	2,258.22	4	2,617.57	4	2,976.41	4	3,334.09
1/4	127.49	1/4	487.00	1/4	845.09	1/4	1,189.99	1/4	1,546.90	1/4	1,906.33	1/4	2,265.71	1/4	2,625.05	1/4	2,983.87	1/4	3,341.55
1/2	134.97	1/2	494.49	1/2	852.27	1/2	1,197.40	1/2	1,554.38	1/2	1,913.82	1/2	2,273.19	1/2	2,632.54	1/2	2,991.34	1/2	3,349.00
3/4	142.46	3/4	501.98	3/4	859.45	3/4	1,204.81	3/4	1,561.87	3/4	1,921.31	3/4	2,280.68	3/4	2,640.02	3/4	2,998.80	3/4	3,356.45
5	149.94	5	509.47	5	866.62	5	1,212.21	5	1,569.36	5	1,928.79	5	2,288.17	5	2,647.51	5	3,006.27	5	3,363.91
1/4	157.43	1/4	516.96	1/4	873.80	1/4	1,219.62	1/4	1,576.85	1/4	1,936.28	1/4	2,295.65	1/4	2,654.99	1/4	3,013.73	1/4	3,371.36
1/2	164.92	1/2	524.45	1/2	880.98	1/2	1,227.03	1/2	1,584.34	1/2	1,943.77	1/2	2,303.14	1/2	2,662.48	1/2	3,021.20	1/2	3,378.81
3/4	172.41	3/4	531.94	3/4	888.16	3/4	1,234.44	3/4	1,591.82	3/4	1,951.26	3/4	2,310.63	3/4	2,669.96	3/4	3,028.66	3/4	3,386.27
6	179.90	6	539.43	6	895.34	6	1,241.85	6	1,599.31	6	1,958.75	6	2,318.11	6	2,677.45	6	3,036.12	6	3,393.72
1/4	187.39	1/4	546.92	1/4	902.49	1/4	1,249.28	1/4	1,606.80	1/4	1,966.23	1/4	2,325.60	1/4	2,684.93	1/4	3,043.59	1/4	3,401.17
1/2	194.88	1/2	554.41	1/2	909.65	1/2	1,256.71	1/2	1,614.29	1/2	1,973.72	1/2	2,333.08	1/2	2,692.42	1/2	3,051.05	1/2	3,408.63
3/4	202.37	3/4	561.90	3/4	916.80	3/4	1,264.13	3/4	1,621.78	3/4	1,981.21	3/4	2,340.57	3/4	2,699.90	3/4	3,058.52	3/4	3,416.08
7	209.86	7	569.40	7	923.96	7	1,271.56	7	1,629.27	7	1,988.70	7	2,348.06	7	2,707.39	7	3,065.98	7	3,423.54
1/4	217.35	1/4	576.89	1/4	931.11	1/4	1,278.99	1/4	1,636.75	1/4	1,996.19	1/4	2,355.54	1/4	2,714.87	1/4	3,073.46	1/4	3,430.99
1/2	224.84	1/2	584.38	1/2	938.26	1/2	1,286.41	1/2	1,644.24	1/2	2,003.68	1/2	2,363.03	1/2	2,722.36	1/2	3,080.93	1/2	3,438.44
3/4	232.33	3/4	591.87	3/4	945.42	3/4	1,293.84	3/4	1,651.73	3/4	2,011.16	3/4	2,370.52	3/4	2,729.84	3/4	3,088.40	3/4	3,445.90
8	239.82	8	599.36	8	952.57	8	1,301.27	8	1,659.22	8	2,018.65	8	2,378.00	8	2,737.33	8	3,095.87	8	3,453.35
1/4	247.31	1/4	606.85	1/4	959.72	1/4	1,308.69	1/4	1,666.71	1/4	2,026.14	1/4	2,385.49	1/4	2,744.81	1/4	3,103.35	1/4	3,460.80
1/2	254.80	1/2	614.34	1/2	966.87	1/2	1,316.12	1/2	1,674.19	1/2	2,033.62	1/2	2,392.98	1/2	2,752.30	1/2	3,110.82	1/2	3,468.26
3/4	262.29	3/4	621.83	3/4	974.03	3/4	1,323.54	3/4	1,681.68	3/4	2,041.11	3/4	2,400.46	3/4	2,759.79	3/4	3,118.29	3/4	3,475.71
9	269.78	9	629.32	9	981.18	9	1,330.97	9	1,689.17	9	2,048.60	9	2,407.95	9	2,767.27	9	3,125.76	9	3,483.16
1/4	277.27	1/4	636.81	1/4	988.33	1/4	1,338.40	1/4	1,696.66	1/4	2,056.08	1/4	2,415.44	1/4	2,774.75	1/4	3,133.20	1/4	3,487.18
1/2	284.76	1/2	644.30	1/2	995.48	1/2	1,345.82	1/2	1,704.15	1/2	2,063.57	1/2	2,422.92	1/2	2,782.22	1/2	3,140.64	1/2	3,491.20
3/4	292.25	3/4	651.79	3/4	1,002.64	3/4	1,353.25	3/4	1,711.64	3/4	2,071.06	3/4	2,430.41	3/4	2,789.69	3/4	3,148.08	3/4	3,495.23
10	299.74	10	659.28	10	1,009.79	10	1,360.68	10	1,719.12	10	2,078.54	10	2,437.90	10	2,797.16	10	3,155.52	10	3,499.25
1/4	307.23	1/4	666.77	1/4	1,016.94	1/4	1,368.10	1/4	1,726.61	1/4	2,086.03	1/4	2,445.38	1/4	2,804.64	1/4	3,162.95	1/4	3,503.27
1/2	314.72	1/2	674.26	1/2	1,024.09	1/2	1,375.53	1/2	1,734.10	1/2	2,093.52	1/2	2,452.87	1/2	2,812.11	1/2	3,170.39	1/2	3,507.29
3/4	322.22	3/4	681.75	3/4	1,031.25	3/4	1,382.96	3/4	1,741.59	3/4	2,101.00	3/4	2,460.36	3/4	2,819.58	3/4	3,177.83	3/4	3,511.31
11	329.71	11	689.24	11	1,038.40	11	1,390.38	11	1,749.08	11	2,108.49	11	2,467.84	11	2,827.05	11	3,185.27	11	3,515.33
1/4	337.20	1/4	696.73	1/4	1,045.55	1/4	1,397.81	1/4	1,756.56	1/4	2,115.98	1/4	2,475.33	1/4	2,834.52	1/4	3,192.71	1/4	3,519.35
1/2	344.69	1/2	704.22	1/2	1,052.70	1/2	1,405.24	1/2	1,764.05	1/2	2,123.46	1/2	2,482.81	1/2	2,842.00	1/2	3,200.14	1/2	3,523.37
3/4	352.18	3/4	711.71	3/4	1,059.86	3/4	1,412.66	3/4	1,771.54	3/4	2,130.95	3/4	2,490.30	3/4	2,849.47	3/4	3,207.58	3/4	3,527.39

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" HERMETIC CLOSED GAUGING VALVE.
GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 55'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "HSM 1001"

3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 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	3,531.41	0	3,724.38	0	3,917.36	0	4,107.76	0	4,288.49	0		0		0		0		0	
1/4	3,535.43	1/4	3,728.40	1/4	3,921.38	1/4	4,111.63	1/4	4,292.12	1/4		1/4		1/4		1/4		1/4	
1/2	3,539.45	1/2	3,732.42	1/2	3,925.40	1/2	4,115.50	1/2	4,295.75	1/2		1/2		1/2		1/2		1/2	
3/4	3,543.47	3/4	3,736.44	3/4	3,929.42	3/4	4,119.37	3/4	4,299.37	3/4		3/4		3/4		3/4		3/4	
1	3,547.49	1	3,740.46	1	3,933.44	1	4,123.24	1	4,303.00	1		1		1		1		1	
1 1/4	3,551.51	1 1/4	3,744.48	1 1/4	3,937.46	1 1/4	4,127.08	1 1/4	4,306.61	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,555.53	1 1/2	3,748.50	1 1/2	3,941.48	1 1/2	4,130.91	1 1/2	4,310.22	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	3,559.55	3/4	3,752.52	3/4	3,945.50	3/4	4,134.75	3/4	4,313.82	3/4		3/4		3/4		3/4		3/4	
2	3,563.57	2	3,756.54	2	3,949.52	2	4,138.59	2	4,317.43	2		2		2		2		2	
1 1/4	3,567.59	1 1/4	3,760.56	1 1/4	3,953.54	1 1/4	4,142.42	1 1/4	4,321.03	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,571.61	1 1/2	3,764.59	1 1/2	3,957.56	1 1/2	4,146.24	1 1/2	4,324.62	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	3,575.63	3/4	3,768.61	3/4	3,961.58	3/4	4,150.06	3/4	4,328.21	3/4		3/4		3/4		3/4		3/4	
3	3,579.65	3	3,772.63	3	3,965.60	3	4,153.88	3	4,331.80	3		3		3		3		3	
1 1/4	3,583.67	1 1/4	3,776.65	1 1/4	3,969.61	1 1/4	4,157.69	1 1/4	4,335.37	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,587.69	1 1/2	3,780.67	1 1/2	3,973.63	1 1/2	4,161.50	1 1/2	4,338.94	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	3,591.71	3/4	3,784.69	3/4	3,977.64	3/4	4,165.31	3/4	4,342.51	3/4		3/4		3/4		3/4		3/4	
4	3,595.73	4	3,788.71	4	3,981.65	4	4,169.11	4	4,346.07	4		4		4		4		4	
1 1/4	3,599.75	1 1/4	3,792.73	1 1/4	3,985.65	1 1/4	4,172.90	1 1/4	4,349.60	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,603.77	1 1/2	3,796.75	1 1/2	3,989.65	1 1/2	4,176.69	1 1/2	4,353.13	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	3,607.79	3/4	3,800.77	3/4	3,993.64	3/4	4,180.49	3/4	4,356.65	3/4		3/4		3/4		3/4		3/4	
5	3,611.81	5	3,804.79	5	3,997.64	5	4,184.28	5	4,360.18	5		5		5		5		5	
1 1/4	3,615.83	1 1/4	3,808.81	1 1/4	4,001.62	1 1/4	4,188.05	1 1/4	4,363.10	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,619.85	1 1/2	3,812.83	1 1/2	4,005.60	1 1/2	4,191.83	1 1/2	4,366.02	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	3,623.87	3/4	3,816.85	3/4	4,009.58	3/4	4,195.60	3/4	4,368.94	3/4		3/4		3/4		3/4		3/4	
6	3,627.89	6	3,820.87	6	4,013.56	6	4,199.38	6	4,371.86	6		6		6		6		6	
1 1/4	3,631.92	1 1/4	3,824.89	1 1/4	4,017.53	1 1/4	4,203.14	1 1/4	4,373.95	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,635.94	1 1/2	3,828.91	1 1/2	4,021.49	1 1/2	4,206.90	1 1/2	4,376.04	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	3,639.96	3/4	3,832.93	3/4	4,025.46	3/4	4,210.66	3/4	4,378.14	3/4		3/4		3/4		3/4		3/4	
7	3,643.98	7	3,836.95	7	4,029.42	7	4,214.42	7	4,380.23	7		7		7		7		7	
1 1/4	3,648.00	1 1/4	3,840.97	1 1/4	4,033.37	1 1/4	4,218.16	1 1/4	4,381.08	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,652.02	1 1/2	3,844.99	1 1/2	4,037.32	1 1/2	4,221.90	1 1/2	4,381.94	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	3,656.04	3/4	3,849.01	3/4	4,041.27	3/4	4,225.65	3/4	4,382.80	3/4		3/4		3/4		3/4		3/4	
8	3,660.06	8	3,853.03	8	4,045.22	8	4,229.39	8	4,383.65	8		8		8		8		8	
1 1/4	3,664.08	1 1/4	3,857.05	1 1/4	4,049.15	1 1/4	4,233.12	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,668.10	1 1/2	3,861.07	1 1/2	4,053.08	1 1/2	4,236.84	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	3,672.12	3/4	3,865.09	3/4	4,057.01	3/4	4,240.57	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,676.14	9	3,869.11	9	4,060.95	9	4,244.30	9		9		9		9		9		9	
1 1/4	3,680.16	1 1/4	3,873.13	1 1/4	4,064.86	1 1/4	4,248.01	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,684.18	1 1/2	3,877.15	1 1/2	4,068.78	1 1/2	4,251.72	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	3,688.20	3/4	3,881.17	3/4	4,072.70	3/4	4,255.43	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,692.22	10	3,885.19	10	4,076.61	10	4,259.15	10		10		10		10		10		10	
1 1/4	3,696.24	1 1/4	3,889.21	1 1/4	4,080.52	1 1/4	4,262.84	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,700.26	1 1/2	3,893.23	1 1/2	4,084.42	1 1/2	4,266.54	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	3,704.28	3/4	3,897.26	3/4	4,088.32	3/4	4,270.23	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,708.30	11	3,901.28	11	4,092.22	11	4,273.93	11		11		11		11		11		11	
1 1/4	3,712.32	1 1/4	3,905.30	1 1/4	4,096.10	1 1/4	4,277.57	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,716.34	1 1/2	3,909.32	1 1/2	4,099.99	1 1/2	4,281.21	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	3,720.36	3/4	3,913.34	3/4	4,103.87	3/4	4,284.85	3/4		3/4		3/4		3/4		3/4		3/4	

STRAPPED: 09/04/2013 CL
CALCULATED: 09/05/2013 CL
PRINTED: 09/05/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2013

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "HSM 1001"

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	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-3/8	00-3/8	- 00-1/2	00-1/2
1 STBD	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-3/8	00-3/8	- 00-1/2	00-1/2
2 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8
2 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8
3 PORT	00-1/2	- 00-1/2	01-1/8	- 01-1/8	01-5/8	- 01-5/8	02-1/4	- 02-1/4	02-3/4	- 02-3/4	03-3/8	- 03-3/8
3 STBD	00-1/2	- 00-1/2	01-1/8	- 01-1/8	01-5/8	- 01-5/8	02-1/4	- 02-1/4	02-3/4	- 02-3/4	03-3/8	- 03-3/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 253'-09"

September 5, 2013

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

<http://www.pmacorp.net>



BARGE "HSM 1001"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	4,941.07	0	4,595.73	0	4,235.07	0	3,872.76	0	3,510.45	0	3,148.13	0	2,785.82	0	2,423.43		
1/4	1/4	5,243.51	1/4	4,934.08	1/4	4,588.34	1/4	4,227.53	1/4	3,865.21	1/4	3,502.90	1/4	3,140.59	1/4	2,778.27	1/4	2,415.88	
1/2	1/2	5,239.18	1/2	4,927.05	1/2	4,580.93	1/2	4,219.98	1/2	3,857.66	1/2	3,495.35	1/2	3,133.04	1/2	2,770.72	1/2	2,408.33	
3/4	3/4	5,234.85	3/4	4,920.02	3/4	4,573.52	3/4	4,212.43	3/4	3,850.12	3/4	3,487.80	3/4	3,125.49	3/4	2,763.18	3/4	2,400.78	
1	1	5,230.51	1	4,913.00	1	4,566.10	1	4,204.88	1	3,842.57	1	3,480.25	1	3,117.94	1	2,755.63	1	2,393.23	
1 1/4	1 1/4	5,226.18	1 1/4	4,905.97	1 1/4	4,558.69	1 1/4	4,197.33	1 1/4	3,835.02	1 1/4	3,472.71	1 1/4	3,110.39	1 1/4	2,748.08	1 1/4	2,385.68	
1 1/2	1 1/2	5,220.62	1 1/2	4,898.92	1 1/2	4,551.24	1 1/2	4,189.79	1 1/2	3,827.47	1 1/2	3,465.16	1 1/2	3,102.84	1 1/2	2,740.53	1 1/2	2,378.12	
3/4 1	3/4 1	5,215.06	3/4 1	4,891.86	3/4 1	4,543.80	3/4 1	4,182.24	3/4 1	3,819.92	3/4 1	3,457.61	3/4 1	3,095.30	3/4 1	2,732.98	3/4 1	2,370.57	
2	2	5,209.50	2	4,884.80	2	4,536.36	2	4,174.69	2	3,812.38	2	3,450.06	2	3,087.75	2	2,725.43	2	2,363.02	
1 1/4 2	1 1/4 2	5,203.94	1 1/4 2	4,877.75	1 1/4 2	4,528.91	1 1/4 2	4,167.14	1 1/4 2	3,804.83	1 1/4 2	3,442.51	1 1/4 2	3,080.20	1 1/4 2	2,717.89	1 1/4 2	2,355.47	
1 1/2 2	1 1/2 2	5,197.91	1 1/2 2	4,870.66	1 1/2 2	4,521.44	1 1/2 2	4,159.59	1 1/2 2	3,797.28	1 1/2 2	3,434.97	1 1/2 2	3,072.65	1 1/2 2	2,710.34	1 1/2 2	2,347.92	
3/4 2	3/4 2	5,191.88	3/4 2	4,863.57	3/4 2	4,513.97	3/4 2	4,152.04	3/4 2	3,789.73	3/4 2	3,427.42	3/4 2	3,065.10	3/4 2	2,702.79	3/4 2	2,340.37	
3	3	5,185.85	3	4,856.49	3	4,506.49	3	4,144.50	3	3,782.18	3	3,419.87	3	3,057.56	3	2,695.24	3	2,332.82	
1 1/4 3	1 1/4 3	5,179.83	1 1/4 3	4,849.40	1 1/4 3	4,499.02	1 1/4 3	4,136.95	1 1/4 3	3,774.63	1 1/4 3	3,412.32	1 1/4 3	3,050.01	1 1/4 3	2,687.69	1 1/4 3	2,325.27	
1 1/2 3	1 1/2 3	5,173.17	1 1/2 3	4,842.29	1 1/2 3	4,491.51	1 1/2 3	4,129.40	1 1/2 3	3,767.09	1 1/2 3	3,404.77	1 1/2 3	3,042.46	1 1/2 3	2,680.15	1 1/2 3	2,317.72	
3/4 3	3/4 3	5,166.52	3/4 3	4,835.17	3/4 3	4,484.01	3/4 3	4,121.85	3/4 3	3,759.54	3/4 3	3,397.22	3/4 3	3,034.91	3/4 3	2,672.60	3/4 3	2,310.17	
4	4	5,159.87	4	4,828.05	4	4,476.51	4	4,114.30	4	3,751.99	4	3,389.68	4	3,027.36	4	2,665.05	4	2,302.61	
1 1/4 4	1 1/4 4	5,153.22	1 1/4 4	4,820.94	1 1/4 4	4,469.00	1 1/4 4	4,106.76	1 1/4 4	3,744.44	1 1/4 4	3,382.13	1 1/4 4	3,019.81	1 1/4 4	2,657.50	1 1/4 4	2,295.06	
1 1/2 4	1 1/2 4	5,146.51	1 1/2 4	4,813.79	1 1/2 4	4,461.47	1 1/2 4	4,099.21	1 1/2 4	3,736.89	1 1/2 4	3,374.58	1 1/2 4	3,012.27	1 1/2 4	2,649.95	1 1/2 4	2,287.51	
3/4 4	3/4 4	5,139.80	3/4 4	4,806.65	3/4 4	4,453.94	3/4 4	4,091.66	3/4 4	3,729.35	3/4 4	3,367.03	3/4 4	3,004.72	3/4 4	2,642.40	3/4 4	2,279.96	
5	5	5,133.09	5	4,799.50	5	4,446.41	5	4,084.11	5	3,721.80	5	3,359.48	5	2,997.17	5	2,634.86	5	2,272.41	
1 1/4 5	1 1/4 5	5,126.38	1 1/4 5	4,792.35	1 1/4 5	4,438.88	1 1/4 5	4,076.56	1 1/4 5	3,714.25	1 1/4 5	3,351.94	1 1/4 5	2,989.62	1 1/4 5	2,627.31	1 1/4 5	2,264.86	
1 1/2 5	1 1/2 5	5,119.64	1 1/2 5	4,785.18	1 1/2 5	4,431.33	1 1/2 5	4,069.01	1 1/2 5	3,706.70	1 1/2 5	3,344.39	1 1/2 5	2,982.07	1 1/2 5	2,619.76	1 1/2 5	2,257.31	
3/4 5	3/4 5	5,112.89	3/4 5	4,778.00	3/4 5	4,423.78	3/4 5	4,061.47	3/4 5	3,699.15	3/4 5	3,336.84	3/4 5	2,974.53	3/4 5	2,612.21	3/4 5	2,249.76	
6	6	5,106.14	6	4,770.83	6	4,416.23	6	4,053.92	6	3,691.60	6	3,329.29	6	2,966.98	6	2,604.65	6	2,242.21	
1 1/4 6	1 1/4 6	5,099.39	1 1/4 6	4,763.65	1 1/4 6	4,408.68	1 1/4 6	4,046.37	1 1/4 6	3,684.06	1 1/4 6	3,321.74	1 1/4 6	2,959.43	1 1/4 6	2,597.10	1 1/4 6	2,234.66	
1 1/2 6	1 1/2 6	5,092.62	1 1/2 6	4,756.45	1 1/2 6	4,401.13	1 1/2 6	4,038.82	1 1/2 6	3,676.51	1 1/2 6	3,314.19	1 1/2 6	2,951.88	1 1/2 6	2,589.55	1 1/2 6	2,227.10	
3/4 6	3/4 6	5,085.84	3/4 6	4,749.24	3/4 6	4,393.59	3/4 6	4,031.27	3/4 6	3,668.96	3/4 6	3,306.65	3/4 6	2,944.33	3/4 6	2,582.00	3/4 6	2,219.55	
7	7	5,079.06	7	4,742.03	7	4,386.04	7	4,023.72	7	3,661.41	7	3,299.10	7	2,936.78	7	2,574.45	7	2,212.00	
1 1/4 7	1 1/4 7	5,072.28	1 1/4 7	4,734.83	1 1/4 7	4,378.49	1 1/4 7	4,016.18	1 1/4 7	3,653.86	1 1/4 7	3,291.55	1 1/4 7	2,929.24	1 1/4 7	2,566.90	1 1/4 7	2,204.45	
1 1/2 7	1 1/2 7	5,065.47	1 1/2 7	4,727.56	1 1/2 7	4,370.94	1 1/2 7	4,008.63	1 1/2 7	3,646.31	1 1/2 7	3,284.00	1 1/2 7	2,921.69	1 1/2 7	2,559.35	1 1/2 7	2,196.90	
3/4 7	3/4 7	5,058.67	3/4 7	4,720.30	3/4 7	4,363.39	3/4 7	4,001.08	3/4 7	3,638.77	3/4 7	3,276.45	3/4 7	2,914.14	3/4 7	2,551.80	3/4 7	2,189.35	
8	8	5,051.86	8	4,713.03	8	4,355.85	8	3,993.53	8	3,631.22	8	3,268.90	8	2,906.59	8	2,544.25	8	2,181.80	
1 1/4 8	1 1/4 8	5,045.05	1 1/4 8	4,705.77	1 1/4 8	4,348.30	1 1/4 8	3,985.98	1 1/4 8	3,623.67	1 1/4 8	3,261.36	1 1/4 8	2,899.04	1 1/4 8	2,536.70	1 1/4 8	2,174.25	
1 1/2 8	1 1/2 8	5,038.21	1 1/2 8	4,698.48	1 1/2 8	4,340.75	1 1/2 8	3,978.44	1 1/2 8	3,616.12	1 1/2 8	3,253.81	1 1/2 8	2,891.49	1 1/2 8	2,529.14	1 1/2 8	2,166.70	
3/4 8	3/4 8	5,031.37	3/4 8	4,691.18	3/4 8	4,333.20	3/4 8	3,970.89	3/4 8	3,608.57	3/4 8	3,246.26	3/4 8	2,883.95	3/4 8	2,521.59	3/4 8	2,159.15	
9	9	5,024.54	9	4,683.89	9	4,325.65	9	3,963.34	9	3,601.03	9	3,238.71	9	2,876.40	9	2,514.04	9	2,151.59	
1 1/4 9	1 1/4 9	5,017.70	1 1/4 9	4,676.59	1 1/4 9	4,318.10	1 1/4 9	3,955.79	1 1/4 9	3,593.48	1 1/4 9	3,231.16	1 1/4 9	2,868.85	1 1/4 9	2,506.49	1 1/4 9	2,144.04	
1 1/2 9	1 1/2 9	5,010.76	1 1/2 9	4,669.27	1 1/2 9	4,310.56	1 1/2 9	3,948.24	1 1/2 9	3,585.93	1 1/2 9	3,223.62	1 1/2 9	2,861.30	1 1/2 9	2,498.94	1 1/2 9	2,136.49	
3/4 9	3/4 9	5,003.82	3/4 9	4,661.94	3/4 9	4,303.01	3/4 9	3,940.69	3/4 9	3,578.38	3/4 9	3,216.07	3/4 9	2,853.75	3/4 9	2,491.39	3/4 9	2,128.94	
10	10	4,996.88	10	4,654.62	10	4,295.46	10	3,933.15	10	3,570.83	10	3,208.52	10	2,846.21	10	2,483.84	10	2,121.39	
1 1/4 10	1 1/4 10	4,989.94	1 1/4 10	4,647.30	1 1/4 10	4,287.91	1 1/4 10	3,925.60	1 1/4 10	3,563.28	1 1/4 10	3,200.97	1 1/4 10	2,838.66	1 1/4 10	2,476.29	1 1/4 10	2,113.84	
1 1/2 10	1 1/2 10	4,982.97	1 1/2 10	4,639.94	1 1/2 10	4,280.36	1 1/2 10	3,918.05	1 1/2 10	3,555.74	1 1/2 10	3,193.42	1 1/2 10	2,831.11	1 1/2 10	2,468.74	1 1/2 10	2,106.29	
3/4 10	3/4 10	4,976.00	3/4 10	4,632.59	3/4 10	4,272.82	3/4 10	3,910.50	3/4 10	3,548.19	3/4 10	3,185.87	3/4 10	2,823.56	3/4 10	2,461.19	3/4 10	2,098.74	
11	11	4,969.03	11	4,625.23	11	4,265.27	11	3,902.95	11	3,540.64	11	3,178.33	11	2,816.01	11	2,453.63	11	2,091.19	
1 1/4 11	1 1/4 11	4,962.06	1 1/4 11	4,617.88	1 1/4 11	4,257.72	1 1/4 11	3,895.41	1 1/4 11	3,533.09	1 1/4 11	3,170.78	1 1/4 11	2,808.46	1 1/4 11	2,446.08	1 1/4 11	2,083.64	
1 1/2 11	1 1/2 11	4,955.07	1 1/2 11	4,610.49	1 1/2 11	4,250.17	1 1/2 11	3,887.86	1 1/2 11	3,525.54	1 1/2 11	3,163.23	1 1/2 11	2,800.92	1 1/2 11	2,438.53	1 1/2 11	2,076.08	
3/4 11	3/4 11	4,948.07	3/4 11	4,603.11	3/4 11	4,242.62	3/4 11	3,880.31	3/4 11	3,518.00	3/4 11	3,155.68	3/4 11	2,793.37	3/4 11	2,430.98	3/4 11	2,068.53	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" HERMETIC CLOSED GAUGING VALVE.

GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 41'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2052

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HSM 1001"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 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	2,060.98	0	1,698.53	0	1,336.09	0	974.07	0	611.70	0	249.27	0		0		0		0	
1/4	2,053.43	1/4	1,690.98	1/4	1,328.54	1/4	966.53	1/4	604.15	1/4	241.72	1/4		1/4		1/4		1/4	
1/2	2,045.88	1/2	1,683.43	1/2	1,320.98	1/2	959.00	1/2	596.60	1/2	234.16	1/2		1/2		1/2		1/2	
3/4	2,038.33	3/4	1,675.88	3/4	1,313.43	3/4	951.46	3/4	589.05	3/4	226.61	3/4		3/4		3/4		3/4	
1	2,030.78	1	1,668.33	1	1,305.88	1	943.92	1	581.50	1	219.06	1		1		1		1	
1 1/4	2,023.23	1 1/4	1,660.78	1 1/4	1,298.33	1 1/4	936.38	1 1/4	573.95	1 1/4	211.51	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	2,015.68	1 1/2	1,653.23	1 1/2	1,290.78	1 1/2	928.83	1 1/2	566.40	1 1/2	203.96	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	2,008.13	3/4	1,645.68	3/4	1,283.23	3/4	921.28	3/4	558.84	3/4	196.41	3/4		3/4		3/4		3/4	
2	2,000.57	2	1,638.13	2	1,275.68	2	913.73	2	551.29	2	188.86	2		2		2		2	
1 1/4	1,993.02	1 1/4	1,630.58	1 1/4	1,268.13	1 1/4	906.18	1 1/4	543.74	1 1/4	181.31	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,985.47	1 1/2	1,623.02	1 1/2	1,260.58	1 1/2	898.63	1 1/2	536.19	1 1/2	173.76	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,977.92	3/4	1,615.47	3/4	1,253.03	3/4	891.08	3/4	528.64	3/4	166.21	3/4		3/4		3/4		3/4	
3	1,970.37	3	1,607.92	3	1,245.47	3	883.52	3	521.09	3	158.66	3		3		3		3	
1 1/4	1,962.82	1 1/4	1,600.37	1 1/4	1,237.92	1 1/4	875.97	1 1/4	513.54	1 1/4	151.11	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,955.27	1 1/2	1,592.82	1 1/2	1,230.39	1 1/2	868.42	1 1/2	505.99	1 1/2	143.57	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,947.72	3/4	1,585.27	3/4	1,222.85	3/4	860.87	3/4	498.44	3/4	136.03	3/4		3/4		3/4		3/4	
4	1,940.17	4	1,577.72	4	1,215.31	4	853.32	4	490.89	4	128.49	4		4		4		4	
1 1/4	1,932.62	1 1/4	1,570.17	1 1/4	1,207.77	1 1/4	845.77	1 1/4	483.34	1 1/4	120.95	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,925.06	1 1/2	1,562.62	1 1/2	1,200.23	1 1/2	838.22	1 1/2	475.79	1 1/2	113.44	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,917.51	3/4	1,555.07	3/4	1,192.69	3/4	830.67	3/4	468.24	3/4	105.92	3/4		3/4		3/4		3/4	
5	1,909.96	5	1,547.51	5	1,185.15	5	823.12	5	460.69	5	98.41	5		5		5		5	
1 1/4	1,902.41	1 1/4	1,539.96	1 1/4	1,177.62	1 1/4	815.57	1 1/4	453.14	1 1/4	90.89	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,894.86	1 1/2	1,532.41	1 1/2	1,170.08	1 1/2	808.02	1 1/2	445.58	1 1/2	83.97	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,887.31	3/4	1,524.86	3/4	1,162.54	3/4	800.47	3/4	438.03	3/4	77.05	3/4		3/4		3/4		3/4	
6	1,879.76	6	1,517.31	6	1,155.00	6	792.92	6	430.48	6	70.13	6		6		6		6	
1 1/4	1,872.21	1 1/4	1,509.76	1 1/4	1,147.46	1 1/4	785.37	1 1/4	422.93	1 1/4	63.21	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,864.66	1 1/2	1,502.21	1 1/2	1,139.92	1 1/2	777.82	1 1/2	415.38	1 1/2	57.55	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,857.11	3/4	1,494.66	3/4	1,132.38	3/4	770.26	3/4	407.83	3/4	51.89	3/4		3/4		3/4		3/4	
7	1,849.55	7	1,487.11	7	1,124.84	7	762.71	7	400.28	7	46.23	7		7		7		7	
1 1/4	1,842.00	1 1/4	1,479.56	1 1/4	1,117.31	1 1/4	755.16	1 1/4	392.73	1 1/4	40.56	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,834.45	1 1/2	1,472.00	1 1/2	1,109.77	1 1/2	747.61	1 1/2	385.18	1 1/2	36.16	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,826.90	3/4	1,464.45	3/4	1,102.23	3/4	740.06	3/4	377.63	3/4	31.76	3/4		3/4		3/4		3/4	
8	1,819.35	8	1,456.90	8	1,094.69	8	732.51	8	370.08	8	27.35	8		8		8		8	
1 1/4	1,811.80	1 1/4	1,449.35	1 1/4	1,087.15	1 1/4	724.96	1 1/4	362.53	1 1/4	22.95	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,804.25	1 1/2	1,441.80	1 1/2	1,079.61	1 1/2	717.41	1 1/2	354.98	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,796.70	3/4	1,434.25	3/4	1,072.07	3/4	709.86	3/4	347.43	3/4		3/4		3/4		3/4		3/4	
9	1,789.15	9	1,426.70	9	1,064.54	9	702.31	9	339.87	9		9		9		9		9	
1 1/4	1,781.60	1 1/4	1,419.15	1 1/4	1,057.00	1 1/4	694.76	1 1/4	332.32	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,774.04	1 1/2	1,411.60	1 1/2	1,049.46	1 1/2	687.21	1 1/2	324.77	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,766.49	3/4	1,404.05	3/4	1,041.92	3/4	679.66	3/4	317.22	3/4		3/4		3/4		3/4		3/4	
10	1,758.94	10	1,396.49	10	1,034.38	10	672.11	10	309.67	10		10		10		10		10	
1 1/4	1,751.39	1 1/4	1,388.94	1 1/4	1,026.84	1 1/4	664.55	1 1/4	302.12	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,743.84	1 1/2	1,381.39	1 1/2	1,019.30	1 1/2	657.00	1 1/2	294.57	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,736.29	3/4	1,373.84	3/4	1,011.77	3/4	649.45	3/4	287.02	3/4		3/4		3/4		3/4		3/4	
11	1,728.74	11	1,366.29	11	1,004.23	11	641.90	11	279.47	11		11		11		11		11	
1 1/4	1,721.19	1 1/4	1,358.74	1 1/4	996.69	1 1/4	634.35	1 1/4	271.92	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,713.64	1 1/2	1,351.19	1 1/2	989.15	1 1/2	626.80	1 1/2	264.37	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,706.09	3/4	1,343.64	3/4	981.61	3/4	619.25	3/4	256.82	3/4		3/4		3/4		3/4		3/4	

STRAPPED: 09/04/2013 CL
CALCULATED: 09/05/2013 CL
PRINTED: 09/05/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2013

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "HSM 1001"

1 STBD
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	4,947.37	0	4,602.32	0	4,241.74	0	3,879.34	0	3,516.94	0	3,154.54	0	2,792.14	0	2,429.67
1/4		1/4		1/4	4,940.37	1/4	4,594.94	1/4	4,234.19	1/4	3,871.79	1/4	3,509.39	1/4	3,146.99	1/4	2,784.59	1/4	2,422.12
1/2		1/2		1/2	5,242.87	1/2	4,933.37	1/2	4,587.55	1/2	4,226.64	1/2	3,864.24	1/2	3,501.84	1/2	3,139.44	1/2	2,414.56
3/4		3/4		3/4	5,238.54	3/4	4,926.34	3/4	4,580.14	3/4	4,219.09	3/4	3,856.69	3/4	3,494.29	3/4	3,131.89	3/4	2,769.49
1		1		1	5,234.21	1	4,919.31	1	4,572.72	1	4,211.54	1	3,849.14	1	3,486.74	1	3,124.34	1	2,761.94
1/4		1/4		1/4	5,229.87	1/4	4,912.29	1/4	4,565.31	1/4	4,203.99	1/4	3,841.59	1/4	3,479.19	1/4	3,116.79	1/4	2,754.39
1/2		1/2		1/2	5,225.54	1/2	4,905.26	1/2	4,557.89	1/2	4,196.44	1/2	3,834.04	1/2	3,471.64	1/2	3,109.24	1/2	2,746.84
3/4		3/4		3/4	5,219.98	3/4	4,898.20	3/4	4,550.44	3/4	4,188.89	3/4	3,826.49	3/4	3,464.09	3/4	3,101.69	3/4	2,739.29
2		2		2	5,214.42	2	4,891.14	2	4,543.00	2	4,181.34	2	3,818.94	2	3,456.54	2	3,094.14	2	2,731.74
1/4		1/4		1/4	5,208.85	1/4	4,884.08	1/4	4,535.55	1/4	4,173.79	1/4	3,811.39	1/4	3,448.99	1/4	3,086.59	1/4	2,724.19
1/2		1/2		1/2	5,203.29	1/2	4,877.03	1/2	4,528.11	1/2	4,166.24	1/2	3,803.84	1/2	3,441.44	1/2	3,079.04	1/2	2,716.64
3/4		3/4		3/4	5,197.26	3/4	4,869.94	3/4	4,520.63	3/4	4,158.69	3/4	3,796.29	3/4	3,433.89	3/4	3,071.49	3/4	2,709.09
3		3		3	5,191.23	3	4,862.85	3	4,513.16	3	4,151.14	3	3,788.74	3	3,426.34	3	3,063.94	3	2,701.54
1/4		1/4		1/4	5,185.20	1/4	4,855.76	1/4	4,505.68	1/4	4,143.59	1/4	3,781.19	1/4	3,418.79	1/4	3,056.39	1/4	2,693.99
1/2		1/2		1/2	5,179.18	1/2	4,848.67	1/2	4,498.21	1/2	4,136.04	1/2	3,773.64	1/2	3,411.24	1/2	3,048.84	1/2	2,686.44
3/4		3/4		3/4	5,172.52	3/4	4,841.56	3/4	4,490.70	3/4	4,128.49	3/4	3,766.09	3/4	3,403.69	3/4	3,041.29	3/4	2,678.89
4		4		4	5,165.87	4	4,834.44	4	4,483.20	4	4,120.94	4	3,758.54	4	3,396.14	4	3,033.74	4	2,671.34
1/4		1/4		1/4	5,159.21	1/4	4,827.32	1/4	4,475.69	1/4	4,113.39	1/4	3,750.99	1/4	3,388.59	1/4	3,026.19	1/4	2,663.79
1/2		1/2		1/2	5,152.56	1/2	4,820.20	1/2	4,468.19	1/2	4,105.84	1/2	3,743.44	1/2	3,381.04	1/2	3,018.64	1/2	2,656.24
3/4		3/4		3/4	5,145.85	3/4	4,813.06	3/4	4,460.65	3/4	4,098.29	3/4	3,735.89	3/4	3,373.49	3/4	3,011.09	3/4	2,648.69
5		5		5	5,139.14	5	4,805.91	5	4,453.11	5	4,090.74	5	3,728.34	5	3,365.94	5	3,003.54	5	2,641.14
1/4		1/4		1/4	5,132.43	1/4	4,798.76	1/4	4,445.58	1/4	4,083.19	1/4	3,720.79	1/4	3,358.39	1/4	2,995.99	1/4	2,633.59
1/2		1/2		1/2	5,125.72	1/2	4,791.61	1/2	4,438.04	1/2	4,075.64	1/2	3,713.24	1/2	3,350.84	1/2	2,988.44	1/2	2,626.04
3/4		3/4		3/4	5,118.97	3/4	4,784.44	3/4	4,430.49	3/4	4,068.09	3/4	3,705.69	3/4	3,343.29	3/4	2,980.89	3/4	2,618.49
6		6		6	5,112.22	6	4,777.26	6	4,422.94	6	4,060.54	6	3,698.14	6	3,335.74	6	2,973.34	6	2,610.94
1/4		1/4		1/4	5,105.47	1/4	4,770.08	1/4	4,415.39	1/4	4,052.99	1/4	3,690.59	1/4	3,328.19	1/4	2,965.79	1/4	2,603.38
1/2		1/2		1/2	5,098.73	1/2	4,762.90	1/2	4,407.84	1/2	4,045.44	1/2	3,683.04	1/2	3,320.64	1/2	2,958.24	1/2	2,595.83
3/4		3/4		3/4	5,091.95	3/4	4,755.70	3/4	4,400.29	3/4	4,037.89	3/4	3,675.49	3/4	3,313.09	3/4	2,950.69	3/4	2,588.28
7		7		7	5,085.17	7	4,748.49	7	4,392.74	7	4,030.34	7	3,667.94	7	3,305.54	7	2,943.14	7	2,580.72
1/4		1/4		1/4	5,078.39	1/4	4,741.28	1/4	4,385.19	1/4	4,022.79	1/4	3,660.39	1/4	3,297.99	1/4	2,935.59	1/4	2,573.17
1/2		1/2		1/2	5,071.61	1/2	4,734.07	1/2	4,377.64	1/2	4,015.24	1/2	3,652.84	1/2	3,290.44	1/2	2,928.04	1/2	2,565.62
3/4		3/4		3/4	5,064.80	3/4	4,726.81	3/4	4,370.09	3/4	4,007.69	3/4	3,645.29	3/4	3,282.89	3/4	2,920.49	3/4	2,558.07
8		8		8	5,057.99	8	4,719.54	8	4,362.54	8	4,000.14	8	3,637.74	8	3,275.34	8	2,912.94	8	2,550.51
1/4		1/4		1/4	5,051.18	1/4	4,712.27	1/4	4,354.99	1/4	3,992.59	1/4	3,630.19	1/4	3,267.79	1/4	2,905.39	1/4	2,542.96
1/2		1/2		1/2	5,044.37	1/2	4,705.01	1/2	4,347.44	1/2	3,985.04	1/2	3,622.64	1/2	3,260.24	1/2	2,897.84	1/2	2,535.41
3/4		3/4		3/4	5,037.53	3/4	4,697.71	3/4	4,339.89	3/4	3,977.49	3/4	3,615.09	3/4	3,252.69	3/4	2,890.29	3/4	2,527.86
9		9		9	5,030.69	9	4,690.42	9	4,332.34	9	3,969.94	9	3,607.54	9	3,245.14	9	2,882.74	9	2,520.30
1/4		1/4		1/4	5,023.85	1/4	4,683.12	1/4	4,324.79	1/4	3,962.39	1/4	3,599.99	1/4	3,237.59	1/4	2,875.19	1/4	2,512.75
1/2		1/2		1/2	5,017.01	1/2	4,675.82	1/2	4,317.24	1/2	3,954.84	1/2	3,592.44	1/2	3,230.04	1/2	2,867.64	1/2	2,505.20
3/4		3/4		3/4	5,010.07	3/4	4,668.50	3/4	4,309.69	3/4	3,947.29	3/4	3,584.89	3/4	3,222.49	3/4	2,860.09	3/4	2,497.64
10		10		10	5,003.13	10	4,661.17	10	4,302.14	10	3,939.74	10	3,577.34	10	3,214.94	10	2,852.54	10	2,490.09
1/4		1/4		1/4	4,996.19	1/4	4,653.85	1/4	4,294.59	1/4	3,932.19	1/4	3,569.79	1/4	3,207.39	1/4	2,844.99	1/4	2,482.54
1/2		1/2		1/2	4,989.25	1/2	4,646.52	1/2	4,287.04	1/2	3,924.64	1/2	3,562.24	1/2	3,199.84	1/2	2,837.44	1/2	2,474.99
3/4		3/4		3/4	4,982.28	3/4	4,639.16	3/4	4,279.49	3/4	3,917.09	3/4	3,554.69	3/4	3,192.29	3/4	2,829.89	3/4	2,467.43
11		11		11	4,975.31	11	4,631.81	11	4,271.94	11	3,909.54	11	3,547.14	11	3,184.74	11	2,822.34	11	2,459.88
1/4		1/4		1/4	4,968.33	1/4	4,624.45	1/4	4,264.39	1/4	3,901.99	1/4	3,539.59	1/4	3,177.19	1/4	2,814.79	1/4	2,452.33
1/2		1/2		1/2	4,961.36	1/2	4,617.10	1/2	4,256.84	1/2	3,894.44	1/2	3,532.04	1/2	3,169.64	1/2	2,807.24	1/2	2,444.77
3/4		3/4		3/4	4,954.37	3/4	4,609.71	3/4	4,249.29	3/4	3,886.89	3/4	3,524.49	3/4	3,162.09	3/4	2,799.69	3/4	2,437.22

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" HERMETIC CLOSED GAUGING VALVE.

GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 41'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "HSM 1001"

1 STBD
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,067.13	0	1,704.60	0	1,342.07	0	981.45	0	619.40	0	256.88	0		0		0		0	
1/4	2,059.58	1/4	1,697.05	1/4	1,334.51	1/4	973.95	1/4	611.85	1/4	249.33	1/4		1/4		1/4		1/4	
1/2	2,052.03	1/2	1,689.49	1/2	1,326.96	1/2	966.45	1/2	604.29	1/2	241.77	1/2		1/2		1/2		1/2	
3/4	2,044.48	3/4	1,681.94	3/4	1,319.41	3/4	958.95	3/4	596.74	3/4	234.22	3/4		3/4		3/4		3/4	
1	2,036.92	1	1,674.39	1	1,311.85	1	951.45	1	589.19	1	226.67	1		1		1		1	
1 1/4	2,029.37	1 1/4	1,666.84	1 1/4	1,304.30	1 1/4	943.95	1 1/4	581.64	1 1/4	219.12	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	2,021.82	1 1/2	1,659.28	1 1/2	1,296.75	1 1/2	936.45	1 1/2	574.08	1 1/2	211.56	1 1/2		1 1/2		1 1/2		1 1/2	
3 1/4	2,014.26	3 1/4	1,651.73	3 1/4	1,289.20	3 1/4	928.93	3 1/4	566.53	3 1/4	204.01	3 1/4		3 1/4		3 1/4		3 1/4	
2	2,006.71	2	1,644.18	2	1,281.64	2	921.42	2	558.98	2	196.46	2		2		2		2	
1 3/4	1,999.16	1 3/4	1,636.62	1 3/4	1,274.09	1 3/4	913.91	1 3/4	551.43	1 3/4	188.91	1 3/4		1 3/4		1 3/4		1 3/4	
1 1/2	1,991.61	1 1/2	1,629.07	1 1/2	1,266.54	1 1/2	906.39	1 1/2	543.87	1 1/2	181.35	1 1/2		1 1/2		1 1/2		1 1/2	
3 1/4	1,984.05	3 1/4	1,621.52	3 1/4	1,259.02	3 1/4	898.84	3 1/4	536.32	3 1/4	173.80	3 1/4		3 1/4		3 1/4		3 1/4	
3	1,976.50	3	1,613.97	3	1,251.51	3	891.29	3	528.77	3	166.25	3		3		3		3	
1 1/4	1,968.95	1 1/4	1,606.41	1 1/4	1,244.00	1 1/4	883.74	1 1/4	521.22	1 1/4	158.70	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,961.40	1 1/2	1,598.86	1 1/2	1,236.49	1 1/2	876.18	1 1/2	513.66	1 1/2	151.15	1 1/2		1 1/2		1 1/2		1 1/2	
3 1/4	1,953.84	3 1/4	1,591.31	3 1/4	1,228.98	3 1/4	868.63	3 1/4	506.11	3 1/4	143.61	3 1/4		3 1/4		3 1/4		3 1/4	
4	1,946.29	4	1,583.76	4	1,221.48	4	861.08	4	498.56	4	136.06	4		4		4		4	
1 3/4	1,938.74	1 3/4	1,576.20	1 3/4	1,213.98	1 3/4	853.53	1 3/4	491.01	1 3/4	128.52	1 3/4		1 3/4		1 3/4		1 3/4	
1 1/2	1,931.18	1 1/2	1,568.65	1 1/2	1,206.48	1 1/2	845.97	1 1/2	483.45	1 1/2	120.98	1 1/2		1 1/2		1 1/2		1 1/2	
3 1/4	1,923.63	3 1/4	1,561.10	3 1/4	1,198.98	3 1/4	838.42	3 1/4	475.90	3 1/4	113.46	3 1/4		3 1/4		3 1/4		3 1/4	
5	1,916.08	5	1,553.54	5	1,191.48	5	830.87	5	468.35	5	105.95	5		5		5		5	
1 1/4	1,908.53	1 1/4	1,545.99	1 1/4	1,183.98	1 1/4	823.32	1 1/4	460.80	1 1/4	98.43	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,900.97	1 1/2	1,538.44	1 1/2	1,176.48	1 1/2	815.76	1 1/2	453.24	1 1/2	90.91	1 1/2		1 1/2		1 1/2		1 1/2	
3 1/4	1,893.42	3 1/4	1,530.89	3 1/4	1,168.98	3 1/4	808.21	3 1/4	445.69	3 1/4	83.99	3 1/4		3 1/4		3 1/4		3 1/4	
6	1,885.87	6	1,523.33	6	1,161.48	6	800.66	6	438.14	6	77.07	6		6		6		6	
1 3/4	1,878.31	1 3/4	1,515.78	1 3/4	1,153.97	1 3/4	793.11	1 3/4	430.59	1 3/4	70.15	1 3/4		1 3/4		1 3/4		1 3/4	
1 1/2	1,870.76	1 1/2	1,508.23	1 1/2	1,146.47	1 1/2	785.55	1 1/2	423.03	1 1/2	63.23	1 1/2		1 1/2		1 1/2		1 1/2	
3 1/4	1,863.21	3 1/4	1,500.67	3 1/4	1,138.97	3 1/4	778.00	3 1/4	415.48	3 1/4	57.57	3 1/4		3 1/4		3 1/4		3 1/4	
7	1,855.66	7	1,493.12	7	1,131.47	7	770.45	7	407.93	7	51.90	7		7		7		7	
1 1/4	1,848.10	1 1/4	1,485.57	1 1/4	1,123.97	1 1/4	762.90	1 1/4	400.38	1 1/4	46.24	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,840.55	1 1/2	1,478.02	1 1/2	1,116.47	1 1/2	755.34	1 1/2	392.82	1 1/2	40.57	1 1/2		1 1/2		1 1/2		1 1/2	
3 1/4	1,833.00	3 1/4	1,470.46	3 1/4	1,108.97	3 1/4	747.79	3 1/4	385.27	3 1/4	36.17	3 1/4		3 1/4		3 1/4		3 1/4	
8	1,825.44	8	1,462.91	8	1,101.47	8	740.24	8	377.72	8	31.77	8		8		8		8	
1 1/4	1,817.89	1 1/4	1,455.36	1 1/4	1,093.97	1 1/4	732.69	1 1/4	370.17	1 1/4	27.36	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,810.34	1 1/2	1,447.80	1 1/2	1,086.47	1 1/2	725.13	1 1/2	362.61	1 1/2	22.96	1 1/2		1 1/2		1 1/2		1 1/2	
3 1/4	1,802.79	3 1/4	1,440.25	3 1/4	1,078.96	3 1/4	717.58	3 1/4	355.06	3 1/4		1 1/2		3 1/4		3 1/4		3 1/4	
9	1,795.23	9	1,432.70	9	1,071.46	9	710.03	9	347.51	9		9		9		9		9	
1 3/4	1,787.68	1 3/4	1,425.15	1 3/4	1,063.96	1 3/4	702.48	1 3/4	339.96	1 3/4		1 1/4		1 3/4		1 3/4		1 3/4	
1 1/2	1,780.13	1 1/2	1,417.59	1 1/2	1,056.46	1 1/2	694.92	1 1/2	332.40	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3 1/4	1,772.58	3 1/4	1,410.04	3 1/4	1,048.96	3 1/4	687.37	3 1/4	324.85	3 1/4		1 1/2		3 1/4		3 1/4		3 1/4	
10	1,765.02	10	1,402.49	10	1,041.46	10	679.82	10	317.30	10		10		10		10		10	
1 1/4	1,757.47	1 1/4	1,394.94	1 1/4	1,033.96	1 1/4	672.27	1 1/4	309.75	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,749.92	1 1/2	1,387.38	1 1/2	1,026.46	1 1/2	664.71	1 1/2	302.19	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3 1/4	1,742.36	3 1/4	1,379.83	3 1/4	1,018.96	3 1/4	657.16	3 1/4	294.64	3 1/4		1 1/2		3 1/4		3 1/4		3 1/4	
11	1,734.81	11	1,372.28	11	1,011.46	11	649.61	11	287.09	11		11		11		11		11	
1 1/4	1,727.26	1 1/4	1,364.72	1 1/4	1,003.95	1 1/4	642.06	1 1/4	279.54	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,719.71	1 1/2	1,357.17	1 1/2	996.45	1 1/2	634.50	1 1/2	271.98	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3 1/4	1,712.15	3 1/4	1,349.62	3 1/4	988.95	3 1/4	626.95	3 1/4	264.43	3 1/4		1 1/2		3 1/4		3 1/4		3 1/4	

STRAPPED: 09/04/2013 CL
CALCULATED: 09/05/2013 CL
PRINTED: 09/05/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2013

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "HSM 1001"

2 PORT
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	4,943.79	0	4,599.99	0	4,240.47	0	3,878.99	0	3,517.50	0	3,156.01	0	2,794.52	0	2,432.97
1/4		1/4		1/4	4,936.81	1/4	4,592.63	1/4	4,232.94	1/4	3,871.45	1/4	3,509.97	1/4	3,148.48	1/4	2,786.99	1/4	2,425.43
1/2		1/2		1/2	4,929.83	1/2	4,585.26	1/2	4,225.41	1/2	3,863.92	1/2	3,502.44	1/2	3,140.95	1/2	2,779.46	1/2	2,417.90
3/4		3/4	5,231.59	3/4	4,922.85	3/4	4,577.89	3/4	4,217.88	3/4	3,856.39	3/4	3,494.90	3/4	3,133.42	3/4	2,771.93	3/4	2,410.36
1	1	1	5,227.27	1	4,915.84	1	4,570.49	1	4,210.35	1	3,848.86	1	3,487.37	1	3,125.89	1	2,764.40	1	2,402.83
1 1/4		1 1/4	5,222.95	1 1/4	4,908.83	1 1/4	4,563.10	1 1/4	4,202.82	1 1/4	3,841.33	1 1/4	3,479.84	1 1/4	3,118.35	1 1/4	2,756.87	1 1/4	2,395.30
1 1/2		1 1/2	5,218.63	1 1/2	4,901.82	1 1/2	4,555.70	1 1/2	4,195.29	1 1/2	3,833.80	1 1/2	3,472.31	1 1/2	3,110.82	1 1/2	2,749.34	1 1/2	2,387.76
3/4		3/4	5,214.30	3/4	4,894.81	3/4	4,548.30	3/4	4,187.76	3/4	3,826.27	3/4	3,464.78	3/4	3,103.29	3/4	2,741.80	3/4	2,380.23
2	2	2	5,208.76	2	4,887.77	2	4,540.88	2	4,180.23	2	3,818.74	2	3,457.25	2	3,095.76	2	2,734.27	2	2,372.70
2 1/4		2 1/4	5,203.21	2 1/4	4,880.73	2 1/4	4,533.45	2 1/4	4,172.69	2 1/4	3,811.21	2 1/4	3,449.72	2 1/4	3,088.23	2 1/4	2,726.74	2 1/4	2,365.16
2 1/2		2 1/2	5,197.66	2 1/2	4,873.68	2 1/2	4,526.02	2 1/2	4,165.16	2 1/2	3,803.68	2 1/2	3,442.19	2 1/2	3,080.70	2 1/2	2,719.21	2 1/2	2,357.63
3/4		3/4	5,192.11	3/4	4,866.64	3/4	4,518.59	3/4	4,157.63	3/4	3,796.14	3/4	3,434.66	3/4	3,073.17	3/4	2,711.68	3/4	2,350.10
3	3	3	5,186.10	3	4,859.57	3	4,511.14	3	4,150.10	3	3,788.61	3	3,427.13	3	3,065.64	3	2,704.15	3	2,342.56
3 1/4		3 1/4	5,180.08	3 1/4	4,852.50	3 1/4	4,503.68	3 1/4	4,142.57	3 1/4	3,781.08	3 1/4	3,419.59	3 1/4	3,058.11	3 1/4	2,696.62	3 1/4	2,335.03
3 1/2		3 1/2	5,174.07	3 1/2	4,845.43	3 1/2	4,496.22	3 1/2	4,135.04	3 1/2	3,773.55	3 1/2	3,412.06	3 1/2	3,050.58	3 1/2	2,689.09	3 1/2	2,327.49
3/4		3/4	5,168.05	3/4	4,838.36	3/4	4,488.77	3/4	4,127.51	3/4	3,766.02	3/4	3,404.53	3/4	3,043.04	3/4	2,681.56	3/4	2,319.96
4	4	4	5,161.42	4	4,831.26	4	4,481.28	4	4,119.98	4	3,758.49	4	3,397.00	4	3,035.51	4	2,674.03	4	2,312.43
4 1/4		4 1/4	5,154.78	4 1/4	4,824.16	4 1/4	4,473.80	4 1/4	4,112.45	4 1/4	3,750.96	4 1/4	3,389.47	4 1/4	3,027.98	4 1/4	2,666.49	4 1/4	2,304.89
4 1/2		4 1/2	5,148.14	4 1/2	4,817.06	4 1/2	4,466.31	4 1/2	4,104.92	4 1/2	3,743.43	4 1/2	3,381.94	4 1/2	3,020.45	4 1/2	2,658.96	4 1/2	2,297.36
3/4		3/4	5,141.50	3/4	4,809.96	3/4	4,458.82	3/4	4,097.38	3/4	3,735.90	3/4	3,374.41	3/4	3,012.92	3/4	2,651.43	3/4	2,289.83
5	5	5	5,134.81	5	4,802.83	5	4,451.30	5	4,089.85	5	3,728.37	5	3,366.88	5	3,005.39	5	2,643.90	5	2,282.29
5 1/4		5 1/4	5,128.11	5 1/4	4,795.70	5 1/4	4,443.79	5 1/4	4,082.32	5 1/4	3,720.83	5 1/4	3,359.35	5 1/4	2,997.86	5 1/4	2,636.37	5 1/4	2,274.76
5 1/2		5 1/2	5,121.42	5 1/2	4,788.57	5 1/2	4,436.27	5 1/2	4,074.79	5 1/2	3,713.30	5 1/2	3,351.82	5 1/2	2,990.33	5 1/2	2,628.84	5 1/2	2,267.22
3/4		3/4	5,114.73	3/4	4,781.44	3/4	4,428.75	3/4	4,067.26	3/4	3,705.77	3/4	3,344.28	3/4	2,982.80	3/4	2,621.31	3/4	2,259.69
6	6	6	5,108.00	6	4,774.28	6	4,421.22	6	4,059.73	6	3,698.24	6	3,336.75	6	2,975.27	6	2,613.77	6	2,252.16
6 1/4		6 1/4	5,101.26	6 1/4	4,767.12	6 1/4	4,413.69	6 1/4	4,052.20	6 1/4	3,690.71	6 1/4	3,329.22	6 1/4	2,967.73	6 1/4	2,606.24	6 1/4	2,244.62
6 1/2		6 1/2	5,094.53	6 1/2	4,759.96	6 1/2	4,406.16	6 1/2	4,044.67	6 1/2	3,683.18	6 1/2	3,321.69	6 1/2	2,960.20	6 1/2	2,598.71	6 1/2	2,237.09
3/4		3/4	5,087.80	3/4	4,752.80	3/4	4,398.62	3/4	4,037.14	3/4	3,675.65	3/4	3,314.16	3/4	2,952.67	3/4	2,591.17	3/4	2,229.56
7	7	7	5,081.04	7	4,745.61	7	4,391.09	7	4,029.61	7	3,668.12	7	3,306.63	7	2,945.14	7	2,583.64	7	2,222.02
7 1/4		7 1/4	5,074.27	7 1/4	4,738.43	7 1/4	4,383.56	7 1/4	4,022.07	7 1/4	3,660.59	7 1/4	3,299.10	7 1/4	2,937.61	7 1/4	2,576.11	7 1/4	2,214.49
7 1/2		7 1/2	5,067.51	7 1/2	4,731.24	7 1/2	4,376.03	7 1/2	4,014.54	7 1/2	3,653.06	7 1/2	3,291.57	7 1/2	2,930.08	7 1/2	2,568.57	7 1/2	2,206.95
3/4		3/4	5,060.75	3/4	4,724.05	3/4	4,368.50	3/4	4,007.01	3/4	3,645.52	3/4	3,284.04	3/4	2,922.55	3/4	2,561.04	3/4	2,199.42
8	8	8	5,053.95	8	4,716.80	8	4,360.97	8	3,999.48	8	3,637.99	8	3,276.51	8	2,915.02	8	2,553.51	8	2,191.89
8 1/4		8 1/4	5,047.16	8 1/4	4,709.55	8 1/4	4,353.44	8 1/4	3,991.95	8 1/4	3,630.46	8 1/4	3,268.97	8 1/4	2,907.49	8 1/4	2,545.97	8 1/4	2,184.35
8 1/2		8 1/2	5,040.37	8 1/2	4,702.30	8 1/2	4,345.91	8 1/2	3,984.42	8 1/2	3,622.93	8 1/2	3,261.44	8 1/2	2,899.96	8 1/2	2,538.44	8 1/2	2,176.82
3/4		3/4	5,033.58	3/4	4,695.05	3/4	4,338.38	3/4	3,976.89	3/4	3,615.40	3/4	3,253.91	3/4	2,892.42	3/4	2,530.90	3/4	2,169.29
9	9	9	5,026.75	9	4,687.78	9	4,330.85	9	3,969.36	9	3,607.87	9	3,246.38	9	2,884.89	9	2,523.37	9	2,161.75
9 1/4		9 1/4	5,019.93	9 1/4	4,680.50	9 1/4	4,323.31	9 1/4	3,961.83	9 1/4	3,600.34	9 1/4	3,238.85	9 1/4	2,877.36	9 1/4	2,515.84	9 1/4	2,154.22
9 1/2		9 1/2	5,013.11	9 1/2	4,673.22	9 1/2	4,315.78	9 1/2	3,954.30	9 1/2	3,592.81	9 1/2	3,231.32	9 1/2	2,869.83	9 1/2	2,508.30	9 1/2	2,146.69
3/4		3/4	5,006.29	3/4	4,665.94	3/4	4,308.25	3/4	3,946.76	3/4	3,585.28	3/4	3,223.79	3/4	2,862.30	3/4	2,500.77	3/4	2,139.15
10	10	10	4,999.36	10	4,658.63	10	4,300.72	10	3,939.23	10	3,577.75	10	3,216.26	10	2,854.77	10	2,493.24	10	2,131.62
10 1/4		10 1/4	4,992.44	10 1/4	4,651.33	10 1/4	4,293.19	10 1/4	3,931.70	10 1/4	3,570.21	10 1/4	3,208.73	10 1/4	2,847.24	10 1/4	2,485.70	10 1/4	2,124.08
10 1/2		10 1/2	4,985.51	10 1/2	4,644.02	10 1/2	4,285.66	10 1/2	3,924.17	10 1/2	3,562.68	10 1/2	3,201.20	10 1/2	2,839.71	10 1/2	2,478.17	10 1/2	2,116.55
3/4		3/4	4,978.59	3/4	4,636.71	3/4	4,278.13	3/4	3,916.64	3/4	3,555.15	3/4	3,193.66	3/4	2,832.18	3/4	2,470.63	3/4	2,109.02
11	11	11	4,971.64	11	4,629.37	11	4,270.60	11	3,909.11	11	3,547.62	11	3,186.13	11	2,824.65	11	2,463.10	11	2,101.48
11 1/4		11 1/4	4,964.68	11 1/4	4,622.03	11 1/4	4,263.07	11 1/4	3,901.58	11 1/4	3,540.09	11 1/4	3,178.60	11 1/4	2,817.11	11 1/4	2,455.57	11 1/4	2,093.95
11 1/2		11 1/2	4,957.73	11 1/2	4,614.70	11 1/2	4,255.54	11 1/2	3,894.05	11 1/2	3,532.56	11 1/2	3,171.07	11 1/2	2,809.58	11 1/2	2,448.03	11 1/2	2,086.42
3/4		3/4	4,950.77	3/4	4,607.36	3/4	4,248.00	3/4	3,886.52	3/4	3,525.03	3/4	3,163.54	3/4	2,802.05	3/4	2,440.50	3/4	2,078.88

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" HERMETIC CLOSED GAUGING VALVE.

GAUGE POINT: (HERMETIC) LOCATED 10'-06" 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
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BARGE "HSM 1001"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 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	2,071.35	0	1,709.73	0	1,348.11	0	986.90	0	625.37	0	263.77	0		0		0			
1/4	2,063.81	1/4	1,702.20	1/4	1,340.58	1/4	979.38	1/4	617.84	1/4	256.23	1/4		1/4		1/4		1/4	
1/2	2,056.28	1/2	1,694.66	1/2	1,333.05	1/2	971.86	1/2	610.31	1/2	248.70	1/2		1/2		1/2		1/2	
3/4	2,048.75	3/4	1,687.13	3/4	1,325.51	3/4	964.33	3/4	602.77	3/4	241.17	3/4		3/4		3/4		3/4	
1	2,041.21	1	1,679.60	1	1,317.98	1	956.81	1	595.24	1	233.63	1		1		1		1	
1 1/4	2,033.68	1 1/4	1,672.06	1 1/4	1,310.44	1 1/4	949.29	1 1/4	587.71	1 1/4	226.10	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	2,026.15	1 1/2	1,664.53	1 1/2	1,302.91	1 1/2	941.77	1 1/2	580.17	1 1/2	218.57	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	2,018.61	3/4	1,656.99	3/4	1,295.38	3/4	934.25	3/4	572.64	3/4	211.03	3/4		3/4		3/4		3/4	
2	2,011.08	2	1,649.46	2	1,287.84	2	926.71	2	565.11	2	203.50	2		2		2		2	
1 1/4	2,003.55	1 1/4	1,641.93	1 1/4	1,280.31	1 1/4	919.18	1 1/4	557.57	1 1/4	195.96	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,996.01	1 1/2	1,634.39	1 1/2	1,272.78	1 1/2	911.65	1 1/2	550.04	1 1/2	188.43	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,988.48	3/4	1,626.86	3/4	1,265.24	3/4	904.11	3/4	542.51	3/4	180.90	3/4		3/4		3/4		3/4	
3	1,980.94	3	1,619.33	3	1,257.71	3	896.58	3	534.97	3	173.37	3		3		3		3	
1 1/4	1,973.41	1 1/4	1,611.79	1 1/4	1,250.18	1 1/4	889.05	1 1/4	527.44	1 1/4	165.83	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,965.88	1 1/2	1,604.26	1 1/2	1,242.64	1 1/2	881.51	1 1/2	519.91	1 1/2	158.30	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,958.34	3/4	1,596.73	3/4	1,235.11	3/4	873.98	3/4	512.37	3/4	150.77	3/4		3/4		3/4		3/4	
4	1,950.81	4	1,589.19	4	1,227.59	4	866.45	4	504.84	4	143.25	4		4		4		4	
1 1/4	1,943.28	1 1/4	1,581.66	1 1/4	1,220.06	1 1/4	858.91	1 1/4	497.30	1 1/4	135.72	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,935.74	1 1/2	1,574.12	1 1/2	1,212.54	1 1/2	851.38	1 1/2	489.77	1 1/2	128.20	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,928.21	3/4	1,566.59	3/4	1,205.02	3/4	843.85	3/4	482.24	3/4	120.68	3/4		3/4		3/4		3/4	
5	1,920.67	5	1,559.06	5	1,197.50	5	836.31	5	474.70	5	113.18	5		5		5		5	
1 1/4	1,913.14	1 1/4	1,551.52	1 1/4	1,189.98	1 1/4	828.78	1 1/4	467.17	1 1/4	105.68	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,905.61	1 1/2	1,543.99	1 1/2	1,182.46	1 1/2	821.25	1 1/2	459.64	1 1/2	98.18	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,898.07	3/4	1,536.46	3/4	1,174.94	3/4	813.71	3/4	452.10	3/4	90.69	3/4		3/4		3/4		3/4	
6	1,890.54	6	1,528.92	6	1,167.41	6	806.18	6	444.57	6	83.78	6		6		6		6	
1 1/4	1,883.01	1 1/4	1,521.39	1 1/4	1,159.89	1 1/4	798.64	1 1/4	437.04	1 1/4	76.88	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,875.47	1 1/2	1,513.85	1 1/2	1,152.37	1 1/2	791.11	1 1/2	429.50	1 1/2	69.97	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,867.94	3/4	1,506.32	3/4	1,144.85	3/4	783.58	3/4	421.97	3/4	63.07	3/4		3/4		3/4		3/4	
7	1,860.40	7	1,498.79	7	1,137.33	7	776.04	7	414.44	7	57.42	7		7		7		7	
1 1/4	1,852.87	1 1/4	1,491.25	1 1/4	1,129.81	1 1/4	768.51	1 1/4	406.90	1 1/4	51.77	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,845.34	1 1/2	1,483.72	1 1/2	1,122.29	1 1/2	760.98	1 1/2	399.37	1 1/2	46.12	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,837.80	3/4	1,476.19	3/4	1,114.76	3/4	753.44	3/4	391.84	3/4	40.47	3/4		3/4		3/4		3/4	
8	1,830.27	8	1,468.65	8	1,107.24	8	745.91	8	384.30	8	36.08	8		8		8		8	
1 1/4	1,822.74	1 1/4	1,461.12	1 1/4	1,099.72	1 1/4	738.38	1 1/4	376.77	1 1/4	31.69	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,815.20	1 1/2	1,453.58	1 1/2	1,092.20	1 1/2	730.84	1 1/2	369.24	1 1/2	27.29	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,807.67	3/4	1,446.05	3/4	1,084.68	3/4	723.31	3/4	361.70	3/4	22.90	3/4		3/4		3/4		3/4	
9	1,800.14	9	1,438.52	9	1,077.16	9	715.78	9	354.17	9		9		9		9		9	
1 1/4	1,792.60	1 1/4	1,430.98	1 1/4	1,069.63	1 1/4	708.24	1 1/4	346.63	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,785.07	1 1/2	1,423.45	1 1/2	1,062.11	1 1/2	700.71	1 1/2	339.10	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,777.53	3/4	1,415.92	3/4	1,054.59	3/4	693.18	3/4	331.57	3/4		3/4		3/4		3/4		3/4	
10	1,770.00	10	1,408.38	10	1,047.07	10	685.64	10	324.03	10		10		10		10		10	
1 1/4	1,762.47	1 1/4	1,400.85	1 1/4	1,039.55	1 1/4	678.11	1 1/4	316.50	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,754.93	1 1/2	1,393.32	1 1/2	1,032.03	1 1/2	670.58	1 1/2	308.97	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,747.40	3/4	1,385.78	3/4	1,024.51	3/4	663.04	3/4	301.43	3/4		3/4		3/4		3/4		3/4	
11	1,739.87	11	1,378.25	11	1,016.98	11	655.51	11	293.90	11		11		11		11		11	
1 1/4	1,732.33	1 1/4	1,370.71	1 1/4	1,009.46	1 1/4	647.97	1 1/4	286.37	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,724.80	1 1/2	1,363.18	1 1/2	1,001.94	1 1/2	640.44	1 1/2	278.83	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,717.26	3/4	1,355.65	3/4	994.42	3/4	632.91	3/4	271.30	3/4		3/4		3/4		3/4		3/4	

STRAPPED: 09/04/2013 CL
CALCULATED: 09/05/2013 CL
PRINTED: 09/05/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2013

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P.O. Box 2092
Pearland, Texas 77588
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BARGE "HSM 1001"

2 STBD

ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.		
0	0	0	0	4,924.94	0	4,581.35	0	4,222.07	0	3,860.79	0	3,499.52	0	3,138.25	0	2,776.98	0	2,415.64		
1/4	1/4	1/4	1/4	4,917.96	1/4	4,573.98	1/4	4,214.54	1/4	3,853.27	1/4	3,492.00	1/4	3,130.72	1/4	2,769.45	1/4	2,408.11		
1/2	1/2	1/2	1/2	4,910.99	1/2	4,566.62	1/2	4,207.01	1/2	3,845.74	1/2	3,484.47	1/2	3,123.20	1/2	2,761.92	1/2	2,400.58		
3/4	3/4	3/4	3/4	5,212.57	3/4	4,904.01	3/4	4,559.26	3/4	4,199.49	3/4	3,838.21	3/4	3,476.94	3/4	3,115.67	3/4	2,754.40	3/4	2,393.05
1	1	1	1	5,208.25	1	4,897.00	1	4,551.86	1	4,191.96	1	3,830.69	1	3,469.42	1	3,108.14	1	2,746.87	1	2,385.52
1 1/4	1 1/4	1 1/4	1 1/4	5,203.93	1 1/4	4,890.00	1 1/4	4,544.47	1 1/4	4,184.43	1 1/4	3,823.16	1 1/4	3,461.89	1 1/4	3,100.62	1 1/4	2,739.35	1 1/4	2,377.99
1 1/2	1 1/2	1 1/2	1 1/2	5,199.61	1 1/2	4,882.99	1 1/2	4,537.08	1 1/2	4,176.91	1 1/2	3,815.63	1 1/2	3,454.36	1 1/2	3,093.09	1 1/2	2,731.82	1 1/2	2,370.46
3/4	3/4	3/4	3/4	5,195.29	3/4	4,875.98	3/4	4,529.69	3/4	4,169.38	3/4	3,808.11	3/4	3,446.84	3/4	3,085.56	3/4	2,724.29	3/4	2,362.93
2	2	2	2	5,189.75	2	4,868.95	2	4,522.26	2	4,161.85	2	3,800.58	2	3,439.31	2	3,078.04	2	2,716.77	2	2,355.40
1 1/4	1 1/4	1 1/4	1 1/4	5,184.20	1 1/4	4,861.91	1 1/4	4,514.84	1 1/4	4,154.33	1 1/4	3,793.06	1 1/4	3,431.78	1 1/4	3,070.51	1 1/4	2,709.24	1 1/4	2,347.87
1 1/2	1 1/2	1 1/2	1 1/2	5,178.66	1 1/2	4,854.87	1 1/2	4,507.42	1 1/2	4,146.80	1 1/2	3,785.53	1 1/2	3,424.26	1 1/2	3,062.98	1 1/2	2,701.71	1 1/2	2,340.34
3/4	3/4	3/4	3/4	5,173.11	3/4	4,847.84	3/4	4,500.00	3/4	4,139.27	3/4	3,778.00	3/4	3,416.73	3/4	3,055.46	3/4	2,694.19	3/4	2,332.81
3	3	3	3	5,167.10	3	4,840.77	3	4,492.54	3	4,131.75	3	3,770.48	3	3,409.20	3	3,047.93	3	2,686.66	3	2,325.28
1 1/4	1 1/4	1 1/4	1 1/4	5,161.09	1 1/4	4,833.71	1 1/4	4,485.09	1 1/4	4,124.22	1 1/4	3,762.95	1 1/4	3,401.68	1 1/4	3,040.41	1 1/4	2,679.13	1 1/4	2,317.76
1 1/2	1 1/2	1 1/2	1 1/2	5,155.08	1 1/2	4,826.64	1 1/2	4,477.64	1 1/2	4,116.69	1 1/2	3,755.42	1 1/2	3,394.15	1 1/2	3,032.88	1 1/2	2,671.61	1 1/2	2,310.23
3/4	3/4	3/4	3/4	5,149.07	3/4	4,819.57	3/4	4,470.19	3/4	4,109.17	3/4	3,747.90	3/4	3,386.62	3/4	3,025.35	3/4	2,664.08	3/4	2,302.70
4	4	4	4	5,142.43	4	4,812.48	4	4,462.71	4	4,101.64	4	3,740.37	4	3,379.10	4	3,017.83	4	2,656.55	4	2,295.17
1 1/4	1 1/4	1 1/4	1 1/4	5,135.80	1 1/4	4,805.38	1 1/4	4,455.22	1 1/4	4,094.12	1 1/4	3,732.84	1 1/4	3,371.57	1 1/4	3,010.30	1 1/4	2,649.03	1 1/4	2,287.64
1 1/2	1 1/2	1 1/2	1 1/2	5,129.17	1 1/2	4,798.29	1 1/2	4,447.74	1 1/2	4,086.59	1 1/2	3,725.32	1 1/2	3,364.04	1 1/2	3,002.77	1 1/2	2,641.50	1 1/2	2,280.11
3/4	3/4	3/4	3/4	5,122.53	3/4	4,791.19	3/4	4,440.26	3/4	4,079.06	3/4	3,717.79	3/4	3,356.52	3/4	2,995.25	3/4	2,633.97	3/4	2,272.58
5	5	5	5	5,115.84	5	4,784.06	5	4,432.75	5	4,071.54	5	3,710.26	5	3,348.99	5	2,987.72	5	2,626.45	5	2,265.05
1 1/4	1 1/4	1 1/4	1 1/4	5,109.15	1 1/4	4,776.94	1 1/4	4,425.24	1 1/4	4,064.01	1 1/4	3,702.74	1 1/4	3,341.47	1 1/4	2,980.19	1 1/4	2,618.92	1 1/4	2,257.52
1 1/2	1 1/2	1 1/2	1 1/2	5,102.46	1 1/2	4,769.81	1 1/2	4,417.74	1 1/2	4,056.48	1 1/2	3,695.21	1 1/2	3,333.94	1 1/2	2,972.67	1 1/2	2,611.39	1 1/2	2,249.99
3/4	3/4	3/4	3/4	5,095.77	3/4	4,762.69	3/4	4,410.23	3/4	4,048.96	3/4	3,687.68	3/4	3,326.41	3/4	2,965.14	3/4	2,603.87	3/4	2,242.46
6	6	6	6	5,089.05	6	4,755.53	6	4,402.70	6	4,041.43	6	3,680.16	6	3,318.89	6	2,957.61	6	2,596.34	6	2,234.93
1 1/4	1 1/4	1 1/4	1 1/4	5,082.32	1 1/4	4,748.38	1 1/4	4,395.18	1 1/4	4,033.90	1 1/4	3,672.63	1 1/4	3,311.36	1 1/4	2,950.09	1 1/4	2,588.81	1 1/4	2,227.40
1 1/2	1 1/2	1 1/2	1 1/2	5,075.59	1 1/2	4,741.22	1 1/2	4,387.65	1 1/2	4,026.38	1 1/2	3,665.10	1 1/2	3,303.83	1 1/2	2,942.56	1 1/2	2,581.28	1 1/2	2,219.87
3/4	3/4	3/4	3/4	5,068.86	3/4	4,734.07	3/4	4,380.12	3/4	4,018.85	3/4	3,657.58	3/4	3,296.31	3/4	2,935.03	3/4	2,573.75	3/4	2,212.34
7	7	7	7	5,062.10	7	4,726.88	7	4,372.60	7	4,011.32	7	3,650.05	7	3,288.78	7	2,927.51	7	2,566.22	7	2,204.82
1 1/4	1 1/4	1 1/4	1 1/4	5,055.34	1 1/4	4,719.70	1 1/4	4,365.07	1 1/4	4,003.80	1 1/4	3,642.53	1 1/4	3,281.25	1 1/4	2,919.98	1 1/4	2,558.69	1 1/4	2,197.29
1 1/2	1 1/2	1 1/2	1 1/2	5,048.59	1 1/2	4,712.51	1 1/2	4,357.54	1 1/2	3,996.27	1 1/2	3,635.00	1 1/2	3,273.73	1 1/2	2,912.45	1 1/2	2,551.16	1 1/2	2,189.76
3/4	3/4	3/4	3/4	5,041.83	3/4	4,705.33	3/4	4,350.02	3/4	3,988.74	3/4	3,627.47	3/4	3,266.20	3/4	2,904.93	3/4	2,543.63	3/4	2,182.23
8	8	8	8	5,035.04	8	4,698.08	8	4,342.49	8	3,981.22	8	3,619.95	8	3,258.67	8	2,897.40	8	2,536.10	8	2,174.70
1 1/4	1 1/4	1 1/4	1 1/4	5,028.25	1 1/4	4,690.84	1 1/4	4,334.96	1 1/4	3,973.69	1 1/4	3,612.42	1 1/4	3,251.15	1 1/4	2,889.88	1 1/4	2,528.58	1 1/4	2,167.17
1 1/2	1 1/2	1 1/2	1 1/2	5,021.46	1 1/2	4,683.59	1 1/2	4,327.44	1 1/2	3,966.16	1 1/2	3,604.89	1 1/2	3,243.62	1 1/2	2,882.35	1 1/2	2,521.05	1 1/2	2,159.64
3/4	3/4	3/4	3/4	5,014.67	3/4	4,676.35	3/4	4,319.91	3/4	3,958.64	3/4	3,597.37	3/4	3,236.09	3/4	2,874.82	3/4	2,513.52	3/4	2,152.11
9	9	9	9	5,007.85	9	4,669.08	9	4,312.38	9	3,951.11	9	3,589.84	9	3,228.57	9	2,867.30	9	2,505.99	9	2,144.58
1 1/4	1 1/4	1 1/4	1 1/4	5,001.03	1 1/4	4,661.80	1 1/4	4,304.86	1 1/4	3,943.59	1 1/4	3,582.31	1 1/4	3,221.04	1 1/4	2,859.77	1 1/4	2,498.46	1 1/4	2,137.05
1 1/2	1 1/2	1 1/2	1 1/2	4,994.21	1 1/2	4,654.53	1 1/2	4,297.33	1 1/2	3,936.06	1 1/2	3,574.79	1 1/2	3,213.51	1 1/2	2,852.24	1 1/2	2,490.93	1 1/2	2,129.52
3/4	3/4	3/4	3/4	4,987.40	3/4	4,647.25	3/4	4,289.80	3/4	3,928.53	3/4	3,567.26	3/4	3,205.99	3/4	2,844.72	3/4	2,483.40	3/4	2,121.99
10	10	10	10	4,980.48	10	4,639.95	10	4,282.28	10	3,921.01	10	3,559.73	10	3,198.46	10	2,837.19	10	2,475.87	10	2,114.46
1 1/4	1 1/4	1 1/4	1 1/4	4,973.56	1 1/4	4,632.65	1 1/4	4,274.75	1 1/4	3,913.48	1 1/4	3,552.21	1 1/4	3,190.94	1 1/4	2,829.66	1 1/4	2,468.34	1 1/4	2,106.93
1 1/2	1 1/2	1 1/2	1 1/2	4,966.64	1 1/2	4,625.34	1 1/2	4,267.22	1 1/2	3,905.95	1 1/2	3,544.68	1 1/2	3,183.41	1 1/2	2,822.14	1 1/2	2,460.81	1 1/2	2,099.41
3/4	3/4	3/4	3/4	4,959.72	3/4	4,618.04	3/4	4,259.70	3/4	3,898.43	3/4	3,537.15	3/4	3,175.88	3/4	2,814.61	3/4	2,453.28	3/4	2,091.88
11	11	11	11	4,952.77	11	4,610.71	11	4,252.17	11	3,890.90	11	3,529.63	11	3,168.36	11	2,807.08	11	2,445.75	11	2,084.35
1 1/4	1 1/4	1 1/4	1 1/4	4,945.82	1 1/4	4,603.37	1 1/4	4,244.65	1 1/4	3,883.37	1 1/4	3,522.10	1 1/4	3,160.83	1 1/4	2,799.56	1 1/4	2,438.22	1 1/4	2,076.82
1 1/2	1 1/2	1 1/2	1 1/2	4,938.87	1 1/2	4,596.04	1 1/2	4,237.12	1 1/2	3,875.85	1 1/2	3,514.57	1 1/2	3,153.30	1 1/2	2,792.03	1 1/2	2,430.69	1 1/2	2,069.29
3/4	3/4	3/4	3/4	4,931.92	3/4	4,588.71	3/4	4,229.59	3/4	3,868.32	3/4	3,507.05	3/4	3,145.78	3/4	2,784.50	3/4	2,423.17	3/4	2,061.76

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" HERMETIC CLOSED GAUGING VALVE.

GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 43'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2692
Pearland, Texas 77588
<http://www.pmacorp.net>



BARGE "HSM 1001"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 3/4"

	10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.
0	2,054.23	0	1,692.82	0	1,331.42	0	982.66	0	625.00	0	263.61	0		0		0		0	
1/4	2,046.70	1/4	1,685.29	1/4	1,323.89	1/4	975.48	1/4	617.47	1/4	256.08	1/4		1/4		1/4		1/4	
1/2	2,039.17	1/2	1,677.76	1/2	1,316.36	1/2	968.29	1/2	609.94	1/2	248.55	1/2		1/2		1/2		1/2	
3/4	2,031.64	3/4	1,670.24	3/4	1,308.83	3/4	961.10	3/4	602.41	3/4	241.02	3/4		3/4		3/4		3/4	
1	2,024.11	1	1,662.71	1	1,301.30	1	953.92	1	594.88	1	233.49	1		1		1		1	
1 1/4	2,016.58	1 1/4	1,655.18	1 1/4	1,293.77	1 1/4	946.73	1 1/4	587.35	1 1/4	225.96	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	2,009.05	1 1/2	1,647.65	1 1/2	1,286.24	1 1/2	939.55	1 1/2	579.83	1 1/2	218.43	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	2,001.52	3/4	1,640.12	3/4	1,278.71	3/4	932.36	3/4	572.30	3/4	210.90	3/4		3/4		3/4		3/4	
2	1,994.00	2	1,632.59	2	1,271.18	2	925.16	2	564.77	2	203.38	2		2		2		2	
1 1/4	1,986.47	1 1/4	1,625.06	1 1/4	1,263.65	1 1/4	917.97	1 1/4	557.24	1 1/4	195.85	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,978.94	1 1/2	1,617.53	1 1/2	1,256.12	1 1/2	910.77	1 1/2	549.71	1 1/2	188.32	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,971.41	3/4	1,610.00	3/4	1,248.59	3/4	903.57	3/4	542.18	3/4	180.79	3/4		3/4		3/4		3/4	
3	1,963.88	3	1,602.47	3	1,241.40	3	896.04	3	534.65	3	173.26	3		3		3		3	
1 1/4	1,956.35	1 1/4	1,594.94	1 1/4	1,234.20	1 1/4	888.51	1 1/4	527.12	1 1/4	165.73	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,948.82	1 1/2	1,587.41	1 1/2	1,227.00	1 1/2	880.99	1 1/2	519.59	1 1/2	158.21	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,941.29	3/4	1,579.88	3/4	1,219.80	3/4	873.46	3/4	512.06	3/4	150.68	3/4		3/4		3/4		3/4	
4	1,933.76	4	1,572.35	4	1,212.61	4	865.93	4	504.54	4	143.16	4		4		4		4	
1 1/4	1,926.23	1 1/4	1,564.83	1 1/4	1,205.43	1 1/4	858.40	1 1/4	497.01	1 1/4	135.64	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,918.70	1 1/2	1,557.30	1 1/2	1,198.24	1 1/2	850.87	1 1/2	489.48	1 1/2	128.12	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,911.17	3/4	1,549.77	3/4	1,191.06	3/4	843.34	3/4	481.95	3/4	120.60	3/4		3/4		3/4		3/4	
5	1,903.64	5	1,542.24	5	1,183.87	5	835.81	5	474.42	5	113.11	5		5		5		5	
1 1/4	1,896.11	1 1/4	1,534.71	1 1/4	1,176.68	1 1/4	828.28	1 1/4	466.89	1 1/4	105.62	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,888.58	1 1/2	1,527.18	1 1/2	1,169.50	1 1/2	820.75	1 1/2	459.36	1 1/2	98.12	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,881.06	3/4	1,519.65	3/4	1,162.31	3/4	813.22	3/4	451.83	3/4	90.63	3/4		3/4		3/4		3/4	
6	1,873.53	6	1,512.12	6	1,155.13	6	805.70	6	444.30	6	83.73	6		6		6		6	
1 1/4	1,866.00	1 1/4	1,504.59	1 1/4	1,147.94	1 1/4	798.17	1 1/4	436.77	1 1/4	76.83	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,858.47	1 1/2	1,497.06	1 1/2	1,140.75	1 1/2	790.64	1 1/2	429.25	1 1/2	69.93	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,850.94	3/4	1,489.53	3/4	1,133.57	3/4	783.11	3/4	421.72	3/4	63.03	3/4		3/4		3/4		3/4	
7	1,843.41	7	1,482.00	7	1,126.38	7	775.58	7	414.19	7	57.39	7		7		7		7	
1 1/4	1,835.88	1 1/4	1,474.47	1 1/4	1,119.20	1 1/4	768.05	1 1/4	406.66	1 1/4	51.74	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,828.35	1 1/2	1,466.94	1 1/2	1,112.01	1 1/2	760.52	1 1/2	399.13	1 1/2	46.09	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,820.82	3/4	1,459.41	3/4	1,104.82	3/4	752.99	3/4	391.60	3/4	40.45	3/4		3/4		3/4		3/4	
8	1,813.29	8	1,451.89	8	1,097.64	8	745.46	8	384.07	8	36.06	8		8		8		8	
1 1/4	1,805.76	1 1/4	1,444.36	1 1/4	1,090.45	1 1/4	737.93	1 1/4	376.54	1 1/4	31.67	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,798.23	1 1/2	1,436.83	1 1/2	1,083.27	1 1/2	730.41	1 1/2	369.01	1 1/2	27.28	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,790.70	3/4	1,429.30	3/4	1,076.08	3/4	722.88	3/4	361.48	3/4	22.89	3/4		3/4		3/4		3/4	
9	1,783.17	9	1,421.77	9	1,068.89	9	715.35	9	353.96	9		9		9		9		9	
1 1/4	1,775.65	1 1/4	1,414.24	1 1/4	1,061.71	1 1/4	707.82	1 1/4	346.43	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,768.12	1 1/2	1,406.71	1 1/2	1,054.52	1 1/2	700.29	1 1/2	338.90	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,760.59	3/4	1,399.18	3/4	1,047.34	3/4	692.76	3/4	331.37	3/4		3/4		3/4		3/4		3/4	
10	1,753.06	10	1,391.65	10	1,040.15	10	685.23	10	323.84	10		10		10		10		10	
1 1/4	1,745.53	1 1/4	1,384.12	1 1/4	1,032.96	1 1/4	677.70	1 1/4	316.31	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,738.00	1 1/2	1,376.59	1 1/2	1,025.78	1 1/2	670.17	1 1/2	308.78	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,730.47	3/4	1,369.06	3/4	1,018.59	3/4	662.64	3/4	301.25	3/4		3/4		3/4		3/4		3/4	
11	1,722.94	11	1,361.53	11	1,011.41	11	655.12	11	293.72	11		11		11		11		11	
1 1/4	1,715.41	1 1/4	1,354.00	1 1/4	1,004.22	1 1/4	647.59	1 1/4	286.19	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,707.88	1 1/2	1,346.48	1 1/2	997.03	1 1/2	640.06	1 1/2	278.67	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,700.35	3/4	1,338.95	3/4	989.85	3/4	632.53	3/4	271.14	3/4		3/4		3/4		3/4		3/4	

STRAPPED: 09/04/2013 CL
CALCULATED: 09/05/2013 CL
PRINTED: 09/05/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2013

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "HSM 1001"

3 PORT
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/4"

H	0 FT.	N	1 FT.	N	2 FT.	N	3 FT.	N	4 FT.	N	5 FT.	N	6 FT.	N	7 FT.	N	8 FT.	N	9 FT.
0		0		0	4,258.79	0	4,074.22	0	3,881.52	0	3,687.94	0	3,484.07	0	3,126.07	0	2,766.81	0	2,406.95
1/4		1/4	4,409.93	1/4	4,255.05	1/4	4,070.27	1/4	3,877.49	1/4	3,683.91	1/4	3,476.60	1/4	3,118.59	1/4	2,759.32	1/4	2,399.45
1/2		1/2	4,409.06	1/2	4,251.30	1/2	4,066.31	1/2	3,873.46	1/2	3,679.88	1/2	3,469.14	1/2	3,111.10	1/2	2,751.82	1/2	2,391.95
3/4		3/4	4,408.19	3/4	4,247.54	3/4	4,062.35	3/4	3,869.43	3/4	3,675.85	3/4	3,461.67	3/4	3,103.62	3/4	2,744.32	3/4	2,384.45
1		1	4,407.32	1	4,243.78	1	4,058.39	1	3,865.39	1	3,671.81	1	3,454.21	1	3,096.14	1	2,736.83	1	2,376.96
1 1/4		1 1/4	4,406.45	1 1/4	4,240.03	1 1/4	4,054.43	1 1/4	3,861.36	1 1/4	3,667.78	1 1/4	3,446.74	1 1/4	3,088.65	1 1/4	2,729.33	1 1/4	2,369.46
1 1/2		1 1/2	4,404.35	1 1/2	4,236.25	1 1/2	4,050.45	1 1/2	3,857.33	1 1/2	3,663.75	1 1/2	3,439.28	1 1/2	3,081.17	1 1/2	2,721.83	1 1/2	2,361.96
3/4		3/4	4,402.24	3/4	4,232.48	3/4	4,046.47	3/4	3,853.29	3/4	3,659.71	3/4	3,431.81	3/4	3,073.68	3/4	2,714.34	3/4	2,354.46
2		2	4,400.14	2	4,228.71	2	4,042.49	2	3,849.26	2	3,655.68	2	3,424.35	2	3,066.20	2	2,706.84	2	2,346.96
1 1/4		1 1/4	4,398.03	1 1/4	4,224.94	1 1/4	4,038.52	1 1/4	3,845.23	1 1/4	3,651.65	1 1/4	3,416.88	1 1/4	3,058.72	1 1/4	2,699.34	1 1/4	2,339.47
1 1/2		1 1/2	4,395.10	1 1/2	4,221.15	1 1/2	4,034.52	1 1/2	3,841.19	1 1/2	3,647.62	1 1/2	3,409.42	1 1/2	3,051.23	1 1/2	2,691.85	1 1/2	2,331.97
3/4		3/4	4,392.16	3/4	4,217.36	3/4	4,030.53	3/4	3,837.16	3/4	3,643.58	3/4	3,401.95	3/4	3,043.75	3/4	2,684.35	3/4	2,324.47
3		3	4,389.23	3	4,213.58	3	4,026.54	3	3,833.13	3	3,639.55	3	3,394.49	3	3,036.27	3	2,676.85	3	2,316.97
1 1/4		1 1/4	4,386.30	1 1/4	4,209.79	1 1/4	4,022.54	1 1/4	3,829.10	1 1/4	3,635.52	1 1/4	3,387.02	1 1/4	3,028.78	1 1/4	2,669.36	1 1/4	2,309.48
1 1/2		1 1/2	4,382.76	1 1/2	4,205.98	1 1/2	4,018.54	1 1/2	3,825.06	1 1/2	3,631.48	1 1/2	3,379.56	1 1/2	3,021.30	1 1/2	2,661.86	1 1/2	2,301.98
3/4		3/4	4,379.22	3/4	4,202.18	3/4	4,014.53	3/4	3,821.03	3/4	3,627.45	3/4	3,372.09	3/4	3,013.82	3/4	2,654.37	3/4	2,294.48
4		4	4,375.68	4	4,198.38	4	4,010.52	4	3,817.00	4	3,623.42	4	3,364.63	4	3,006.33	4	2,646.87	4	2,286.98
1 1/4		1 1/4	4,372.14	1 1/4	4,194.57	1 1/4	4,006.51	1 1/4	3,812.96	1 1/4	3,619.39	1 1/4	3,357.16	1 1/4	2,998.85	1 1/4	2,639.37	1 1/4	2,279.48
1 1/2		1 1/2	4,368.56	1 1/2	4,190.75	1 1/2	4,002.48	1 1/2	3,808.93	1 1/2	3,615.35	1 1/2	3,349.70	1 1/2	2,991.37	1 1/2	2,631.88	1 1/2	2,271.99
3/4		3/4	4,364.98	3/4	4,186.93	3/4	3,998.46	3/4	3,804.90	3/4	3,611.32	3/4	3,342.23	3/4	2,983.88	3/4	2,624.38	3/4	2,264.49
5		5	4,361.40	5	4,183.11	5	3,994.44	5	3,800.87	5	3,607.29	5	3,334.77	5	2,976.40	5	2,616.88	5	2,256.99
1 1/4		1 1/4	4,357.82	1 1/4	4,179.29	1 1/4	3,990.41	1 1/4	3,796.83	1 1/4	3,603.25	1 1/4	3,327.30	1 1/4	2,968.91	1 1/4	2,609.39	1 1/4	2,249.49
1 1/2		1 1/2	4,354.22	1 1/2	4,175.46	1 1/2	3,986.38	1 1/2	3,792.80	1 1/2	3,599.22	1 1/2	3,319.85	1 1/2	2,961.43	1 1/2	2,601.89	1 1/2	2,241.99
3/4		3/4	4,350.61	3/4	4,171.62	3/4	3,982.35	3/4	3,788.77	3/4	3,595.19	3/4	3,312.41	3/4	2,953.95	3/4	2,594.39	3/4	2,234.50
6		6	4,347.01	6	4,167.79	6	3,978.31	6	3,784.73	6	3,591.15	6	3,304.96	6	2,946.46	6	2,586.89	6	2,227.00
1 1/4		1 1/4	4,343.40	1 1/4	4,163.95	1 1/4	3,974.28	1 1/4	3,780.70	1 1/4	3,587.12	1 1/4	3,297.51	1 1/4	2,938.98	1 1/4	2,579.40	1 1/4	2,219.50
1 1/2		1 1/2	4,339.78	1 1/2	4,160.10	1 1/2	3,970.25	1 1/2	3,776.67	1 1/2	3,583.09	1 1/2	3,290.06	1 1/2	2,931.50	1 1/2	2,571.90	1 1/2	2,212.00
3/4		3/4	4,336.16	3/4	4,156.25	3/4	3,966.21	3/4	3,772.64	3/4	3,579.06	3/4	3,282.61	3/4	2,924.01	3/4	2,564.40	3/4	2,204.51
7		7	4,332.53	7	4,152.40	7	3,962.18	7	3,768.60	7	3,575.02	7	3,275.16	7	2,916.53	7	2,556.90	7	2,197.01
1 1/4		1 1/4	4,328.91	1 1/4	4,148.55	1 1/4	3,958.15	1 1/4	3,764.57	1 1/4	3,570.99	1 1/4	3,267.71	1 1/4	2,909.05	1 1/4	2,549.40	1 1/4	2,189.51
1 1/2		1 1/2	4,325.27	1 1/2	4,144.66	1 1/2	3,954.12	1 1/2	3,760.54	1 1/2	3,566.96	1 1/2	3,260.26	1 1/2	2,901.56	1 1/2	2,541.91	1 1/2	2,182.01
3/4		3/4	4,321.64	3/4	4,140.78	3/4	3,950.08	3/4	3,756.50	3/4	3,562.92	3/4	3,252.81	3/4	2,894.08	3/4	2,534.41	3/4	2,174.51
8		8	4,318.00	8	4,136.90	8	3,946.05	8	3,752.47	8	3,558.89	8	3,245.36	8	2,886.59	8	2,526.91	8	2,167.02
1 1/4		1 1/4	4,314.36	1 1/4	4,133.02	1 1/4	3,942.02	1 1/4	3,748.44	1 1/4	3,554.86	1 1/4	3,237.91	1 1/4	2,879.11	1 1/4	2,519.41	1 1/4	2,159.52
1 1/2		1 1/2	4,310.71	1 1/2	4,129.12	1 1/2	3,937.98	1 1/2	3,744.41	1 1/2	3,550.83	1 1/2	3,230.46	1 1/2	2,871.63	1 1/2	2,511.92	1 1/2	2,152.02
3/4		3/4	4,307.05	3/4	4,125.22	3/4	3,933.95	3/4	3,740.37	3/4	3,546.79	3/4	3,223.01	3/4	2,864.14	3/4	2,504.42	3/4	2,144.52
9		9	4,303.40	9	4,121.32	9	3,929.92	9	3,736.34	9	3,542.76	9	3,215.56	9	2,856.66	9	2,496.92	9	2,137.03
1 1/4		1 1/4	4,299.74	1 1/4	4,117.43	1 1/4	3,925.89	1 1/4	3,732.31	1 1/4	3,538.73	1 1/4	3,208.12	1 1/4	2,849.18	1 1/4	2,489.42	1 1/4	2,129.53
1 1/2		1 1/2	4,296.03	1 1/2	4,113.51	1 1/2	3,921.85	1 1/2	3,728.27	1 1/2	3,534.69	1 1/2	3,200.67	1 1/2	2,841.69	1 1/2	2,481.92	1 1/2	2,122.03
3/4		3/4	4,292.33	3/4	4,109.60	3/4	3,917.82	3/4	3,724.24	3/4	3,530.66	3/4	3,193.22	3/4	2,834.21	3/4	2,474.43	3/4	2,114.53
10		10	4,288.62	10	4,105.69	10	3,913.79	10	3,720.21	10	3,526.63	10	3,185.77	10	2,826.73	10	2,466.93	10	2,107.03
1 1/4		1 1/4	4,284.91	1 1/4	4,101.77	1 1/4	3,909.75	1 1/4	3,716.17	1 1/4	3,522.60	1 1/4	3,178.32	1 1/4	2,819.24	1 1/4	2,459.43	1 1/4	2,099.54
1 1/2		1 1/2	4,281.19	1 1/2	4,097.84	1 1/2	3,905.72	1 1/2	3,712.14	1 1/2	3,518.56	1 1/2	3,170.87	1 1/2	2,811.76	1 1/2	2,451.93	1 1/2	2,092.04
3/4		3/4	4,277.46	3/4	4,093.91	3/4	3,901.69	3/4	3,708.11	3/4	3,514.53	3/4	3,163.42	3/4	2,804.28	3/4	2,444.44	3/4	2,084.54
11		11	4,273.74	11	4,089.98	11	3,897.66	11	3,704.08	11	3,510.50	11	3,155.97	11	2,796.79	11	2,436.94	11	2,077.04
1 1/4		1 1/4	4,270.01	1 1/4	4,086.05	1 1/4	3,893.62	1 1/4	3,700.04	1 1/4	3,506.46	1 1/4	3,148.52	1 1/4	2,789.31	1 1/4	2,429.44	1 1/4	2,069.55
1 1/2		1 1/2	4,266.27	1 1/2	4,082.11	1 1/2	3,889.59	1 1/2	3,696.01	1 1/2	3,499.00	1 1/2	3,141.04	1 1/2	2,781.81	1 1/2	2,421.94	1 1/2	2,062.05
3/4		3/4	4,262.53	3/4	4,078.16	3/4	3,885.56	3/4	3,691.98	3/4	3,491.53	3/4	3,133.55	3/4	2,774.31	3/4	2,414.44	3/4	2,054.55

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" HERMETIC CLOSED GAUGING VALVE.

GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 55'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HSM 1001"

3 PORT
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 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	2,047.05	0	1,687.08	0	1,327.10	0	967.43	0	607.53	0	247.57	0		0		0		0	
1/4	2,039.55	1/4	1,679.58	1/4	1,319.60	1/4	959.94	1/4	600.03	1/4	240.07	1/4		1/4		1/4		1/4	
1/2	2,032.05	1/2	1,672.08	1/2	1,312.10	1/2	952.45	1/2	592.54	1/2	232.57	1/2		1/2		1/2		1/2	
3/4	2,024.56	3/4	1,664.58	3/4	1,304.60	3/4	944.96	3/4	585.04	3/4	225.07	3/4		3/4		3/4		3/4	
1	2,017.06	1	1,657.08	1	1,297.10	1	937.47	1	577.54	1	217.58	1		1		1		1	
1 1/4	2,009.56	1 1/4	1,649.58	1 1/4	1,289.60	1 1/4	929.98	1 1/4	570.04	1 1/4	210.08	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	2,002.06	1 1/2	1,642.08	1 1/2	1,282.10	1 1/2	922.48	1 1/2	562.54	1 1/2	202.58	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,994.56	3/4	1,634.58	3/4	1,274.61	3/4	914.99	3/4	555.04	3/4	195.08	3/4		3/4		3/4		3/4	
2	1,987.06	2	1,627.08	2	1,267.11	2	907.50	2	547.54	2	187.58	2		2		2		2	
1 1/4	1,979.56	1 1/4	1,619.58	1 1/4	1,259.61	1 1/4	900.00	1 1/4	540.04	1 1/4	180.08	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,972.06	1 1/2	1,612.08	1 1/2	1,252.11	1 1/2	892.50	1 1/2	532.54	1 1/2	172.58	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,964.56	3/4	1,604.58	3/4	1,244.61	3/4	885.00	3/4	525.04	3/4	165.08	3/4		3/4		3/4		3/4	
3	1,957.06	3	1,597.08	3	1,237.11	3	877.50	3	517.54	3	157.59	3		3		3		3	
1 1/4	1,949.56	1 1/4	1,589.58	1 1/4	1,229.61	1 1/4	870.01	1 1/4	510.04	1 1/4	150.09	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,942.06	1 1/2	1,582.08	1 1/2	1,222.11	1 1/2	862.51	1 1/2	502.54	1 1/2	142.60	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,934.56	3/4	1,574.59	3/4	1,214.62	3/4	855.01	3/4	495.05	3/4	135.11	3/4		3/4		3/4		3/4	
4	1,927.06	4	1,567.09	4	1,207.12	4	847.51	4	487.55	4	127.62	4		4		4		4	
1 1/4	1,919.56	1 1/4	1,559.59	1 1/4	1,199.62	1 1/4	840.01	1 1/4	480.05	1 1/4	120.13	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,912.06	1 1/2	1,552.09	1 1/2	1,192.13	1 1/2	832.51	1 1/2	472.55	1 1/2	112.67	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,904.56	3/4	1,544.59	3/4	1,184.64	3/4	825.01	3/4	465.05	3/4	105.20	3/4		3/4		3/4		3/4	
5	1,897.06	5	1,537.09	5	1,177.15	5	817.51	5	457.55	5	97.74	5		5		5		5	
1 1/4	1,889.56	1 1/4	1,529.59	1 1/4	1,169.66	1 1/4	810.01	1 1/4	450.05	1 1/4	90.28	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,882.06	1 1/2	1,522.09	1 1/2	1,162.17	1 1/2	802.51	1 1/2	442.55	1 1/2	83.40	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,874.57	3/4	1,514.59	3/4	1,154.68	3/4	795.01	3/4	435.05	3/4	76.53	3/4		3/4		3/4		3/4	
6	1,867.07	6	1,507.09	6	1,147.19	6	787.51	6	427.55	6	69.66	6		6		6		6	
1 1/4	1,859.57	1 1/4	1,499.59	1 1/4	1,139.70	1 1/4	780.02	1 1/4	420.05	1 1/4	62.79	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,852.07	1 1/2	1,492.09	1 1/2	1,132.21	1 1/2	772.52	1 1/2	412.55	1 1/2	57.16	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,844.57	3/4	1,484.59	3/4	1,124.72	3/4	765.02	3/4	405.06	3/4	51.54	3/4		3/4		3/4		3/4	
7	1,837.07	7	1,477.09	7	1,117.23	7	757.52	7	397.56	7	45.92	7		7		7		7	
1 1/4	1,829.57	1 1/4	1,469.59	1 1/4	1,109.74	1 1/4	750.02	1 1/4	390.06	1 1/4	40.29	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,822.07	1 1/2	1,462.09	1 1/2	1,102.25	1 1/2	742.52	1 1/2	382.56	1 1/2	35.92	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,814.57	3/4	1,454.59	3/4	1,094.76	3/4	735.02	3/4	375.06	3/4	31.55	3/4		3/4		3/4		3/4	
8	1,807.07	8	1,447.09	8	1,087.27	8	727.52	8	367.56	8	27.17	8		8		8		8	
1 1/4	1,799.57	1 1/4	1,439.59	1 1/4	1,079.78	1 1/4	720.02	1 1/4	360.06	1 1/4	22.80	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,792.07	1 1/2	1,432.09	1 1/2	1,072.29	1 1/2	712.52	1 1/2	352.56	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,784.57	3/4	1,424.60	3/4	1,064.80	3/4	705.02	3/4	345.06	3/4		3/4		3/4		3/4		3/4	
9	1,777.07	9	1,417.10	9	1,057.31	9	697.52	9	337.56	9		9		9		9		9	
1 1/4	1,769.57	1 1/4	1,409.60	1 1/4	1,049.82	1 1/4	690.02	1 1/4	330.06	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,762.07	1 1/2	1,402.10	1 1/2	1,042.33	1 1/2	682.53	1 1/2	322.56	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,754.57	3/4	1,394.60	3/4	1,034.84	3/4	675.03	3/4	315.06	3/4		3/4		3/4		3/4		3/4	
10	1,747.07	10	1,387.10	10	1,027.35	10	667.53	10	307.57	10		10		10		10		10	
1 1/4	1,739.57	1 1/4	1,379.60	1 1/4	1,019.86	1 1/4	660.03	1 1/4	300.07	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,732.07	1 1/2	1,372.10	1 1/2	1,012.37	1 1/2	652.53	1 1/2	292.57	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,724.58	3/4	1,364.60	3/4	1,004.88	3/4	645.03	3/4	285.07	3/4		3/4		3/4		3/4		3/4	
11	1,717.08	11	1,357.10	11	997.39	11	637.53	11	277.57	11		11		11		11		11	
1 1/4	1,709.58	1 1/4	1,349.60	1 1/4	989.90	1 1/4	630.03	1 1/4	270.07	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,702.08	1 1/2	1,342.10	1 1/2	982.41	1 1/2	622.53	1 1/2	262.57	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,694.58	3/4	1,334.60	3/4	974.92	3/4	615.03	3/4	255.07	3/4		3/4		3/4		3/4		3/4	

STRAPPED: 09/04/2013 CL
CALCULATED: 09/05/2013 CL
PRINTED: 09/05/2013 CLCANCELS AND SUPERCEDES
ALL PRIOR TO 09/2013

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "HSM 1001"

3 STBD
ULLAGE TABLE

GAUGE HEIGHT 15'-08 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	0	0	4,233.12	0	4,049.15	0	3,857.05	0	3,664.08	0	3,460.80	0	3,103.35	0	2,744.81	0	2,385.49
1/4	1/4	1/4	1/4	1/4	4,229.39	1/4	4,045.21	1/4	3,853.03	1/4	3,660.06	1/4	3,453.35	1/4	3,095.87	1/4	2,737.33	1/4	2,378.00
1/2	1/2	1/2	1/2	1/2	4,225.65	1/2	4,041.27	1/2	3,849.01	1/2	3,656.04	1/2	3,445.90	1/2	3,088.40	1/2	2,729.84	1/2	2,370.52
3/4	3/4	3/4	3/4	3/4	4,381.94	3/4	4,221.90	3/4	4,037.32	3/4	3,844.99	3/4	3,652.02	3/4	3,438.44	3/4	3,080.93	3/4	2,722.36
1	1	1	1	1	4,381.08	1	4,218.16	1	4,033.37	1	3,840.97	1	3,648.00	1	3,430.99	1	3,073.46	1	2,714.87
1/4	1/4	1/4	1/4	1/4	4,380.23	1/4	4,214.42	1/4	4,029.42	1/4	3,836.95	1/4	3,643.98	1/4	3,423.54	1/4	3,065.98	1/4	2,707.39
1/2	1/2	1/2	1/2	1/2	4,378.14	1/2	4,210.66	1/2	4,025.46	1/2	3,832.93	1/2	3,639.96	1/2	3,416.08	1/2	3,058.52	1/2	2,699.90
3/4	3/4	3/4	3/4	3/4	4,376.04	3/4	4,206.90	3/4	4,021.49	3/4	3,828.91	3/4	3,635.94	3/4	3,408.63	3/4	3,051.05	3/4	2,692.42
2	2	2	2	2	4,373.95	2	4,203.14	2	4,017.53	2	3,824.89	2	3,631.92	2	3,401.17	2	3,043.59	2	2,684.93
1/4	1/4	1/4	1/4	1/4	4,371.86	1/4	4,199.38	1/4	4,013.56	1/4	3,820.87	1/4	3,627.89	1/4	3,393.72	1/4	3,036.12	1/4	2,677.45
1/2	1/2	1/2	1/2	1/2	4,368.94	1/2	4,195.60	1/2	4,009.58	1/2	3,816.85	1/2	3,623.87	1/2	3,386.27	1/2	3,028.66	1/2	2,669.96
3/4	3/4	3/4	3/4	3/4	4,366.02	3/4	4,191.83	3/4	4,005.60	3/4	3,812.83	3/4	3,619.85	3/4	3,378.81	3/4	3,021.20	3/4	2,662.48
3	3	3	3	3	4,363.10	3	4,188.05	3	4,001.62	3	3,808.81	3	3,615.83	3	3,371.36	3	3,013.73	3	2,654.99
1/4	1/4	1/4	1/4	1/4	4,360.18	1/4	4,184.28	1/4	3,997.64	1/4	3,804.79	1/4	3,611.81	1/4	3,363.91	1/4	3,006.27	1/4	2,647.51
1/2	1/2	1/2	1/2	1/2	4,356.65	1/2	4,180.49	1/2	3,993.64	1/2	3,800.77	1/2	3,607.79	1/2	3,356.45	1/2	2,998.80	1/2	2,640.02
3/4	3/4	3/4	3/4	3/4	4,353.13	3/4	4,176.69	3/4	3,989.65	3/4	3,796.75	3/4	3,603.77	3/4	3,349.00	3/4	2,991.34	3/4	2,632.54
4	4	4	4	4	4,349.60	4	4,172.90	4	3,985.65	4	3,792.73	4	3,599.75	4	3,341.55	4	2,983.87	4	2,625.05
1/4	1/4	1/4	1/4	1/4	4,346.07	1/4	4,169.11	1/4	3,981.65	1/4	3,788.71	1/4	3,595.73	1/4	3,334.09	1/4	2,976.41	1/4	2,617.57
1/2	1/2	1/2	1/2	1/2	4,342.51	1/2	4,165.31	1/2	3,977.64	1/2	3,784.69	1/2	3,591.71	1/2	3,326.64	1/2	2,968.94	1/2	2,610.08
3/4	3/4	3/4	3/4	3/4	4,338.94	3/4	4,161.50	3/4	3,973.63	3/4	3,780.67	3/4	3,587.69	3/4	3,319.18	3/4	2,961.48	3/4	2,602.60
5	5	5	5	5	4,335.37	5	4,157.69	5	3,969.61	5	3,776.65	5	3,583.67	5	3,311.73	5	2,954.01	5	2,595.11
1/4	1/4	1/4	1/4	1/4	4,331.80	1/4	4,153.88	1/4	3,965.60	1/4	3,772.63	1/4	3,579.65	1/4	3,304.28	1/4	2,946.55	1/4	2,587.63
1/2	1/2	1/2	1/2	1/2	4,328.21	1/2	4,150.06	1/2	3,961.58	1/2	3,768.61	1/2	3,575.63	1/2	3,296.84	1/2	2,939.08	1/2	2,580.14
3/4	3/4	3/4	3/4	3/4	4,324.62	3/4	4,146.24	3/4	3,957.56	3/4	3,764.59	3/4	3,571.61	3/4	3,289.40	3/4	2,931.62	3/4	2,572.65
6	6	6	6	6	4,321.03	6	4,142.42	6	3,953.54	6	3,760.56	6	3,567.59	6	3,281.96	6	2,924.15	6	2,565.17
1/4	1/4	1/4	1/4	1/4	4,317.43	1/4	4,138.59	1/4	3,949.52	1/4	3,756.54	1/4	3,563.57	1/4	3,274.53	1/4	2,916.69	1/4	2,557.68
1/2	1/2	1/2	1/2	1/2	4,313.82	1/2	4,134.75	1/2	3,945.50	1/2	3,752.52	1/2	3,559.55	1/2	3,267.09	1/2	2,909.22	1/2	2,550.19
3/4	3/4	3/4	3/4	3/4	4,310.22	3/4	4,130.91	3/4	3,941.48	3/4	3,748.50	3/4	3,555.53	3/4	3,259.65	3/4	2,901.76	3/4	2,542.71
7	7	7	7	7	4,306.61	7	4,127.08	7	3,937.46	7	3,744.48	7	3,551.51	7	3,252.21	7	2,894.30	7	2,535.22
1/4	1/4	1/4	1/4	1/4	4,303.00	1/4	4,123.24	1/4	3,933.44	1/4	3,740.46	1/4	3,547.49	1/4	3,244.77	1/4	2,886.83	1/4	2,527.73
1/2	1/2	1/2	1/2	1/2	4,299.37	1/2	4,119.37	1/2	3,929.42	1/2	3,736.44	1/2	3,543.47	1/2	3,237.33	1/2	2,879.36	1/2	2,520.25
3/4	3/4	3/4	3/4	3/4	4,295.75	3/4	4,115.50	3/4	3,925.40	3/4	3,732.42	3/4	3,539.45	3/4	3,229.90	3/4	2,871.89	3/4	2,512.76
8	8	8	8	8	4,292.12	8	4,111.63	8	3,921.38	8	3,728.40	8	3,535.43	8	3,222.46	8	2,864.41	8	2,505.27
1/4	1/4	1/4	1/4	1/4	4,288.49	1/4	4,107.76	1/4	3,917.36	1/4	3,724.38	1/4	3,531.41	1/4	3,215.02	1/4	2,856.94	1/4	2,497.79
1/2	1/2	1/2	1/2	1/2	4,284.85	1/2	4,103.87	1/2	3,913.34	1/2	3,720.36	1/2	3,527.39	1/2	3,207.58	1/2	2,849.47	1/2	2,490.30
3/4	3/4	3/4	3/4	3/4	4,281.21	3/4	4,099.99	3/4	3,909.32	3/4	3,716.34	3/4	3,523.37	3/4	3,200.14	3/4	2,842.00	3/4	2,482.81
9	9	9	9	9	4,277.57	9	4,096.10	9	3,905.30	9	3,712.32	9	3,519.35	9	3,192.71	9	2,834.52	9	2,475.33
1/4	1/4	1/4	1/4	1/4	4,273.93	1/4	4,092.22	1/4	3,901.28	1/4	3,708.30	1/4	3,515.33	1/4	3,185.27	1/4	2,827.05	1/4	2,467.84
1/2	1/2	1/2	1/2	1/2	4,270.23	1/2	4,088.32	1/2	3,897.26	1/2	3,704.28	1/2	3,511.31	1/2	3,177.83	1/2	2,819.58	1/2	2,460.36
3/4	3/4	3/4	3/4	3/4	4,266.54	3/4	4,084.42	3/4	3,893.23	3/4	3,700.26	3/4	3,507.29	3/4	3,170.39	3/4	2,812.11	3/4	2,452.87
10	10	10	10	10	4,262.84	10	4,080.52	10	3,889.21	10	3,696.24	10	3,503.27	10	3,162.95	10	2,804.64	10	2,445.38
1/4	1/4	1/4	1/4	1/4	4,259.15	1/4	4,076.61	1/4	3,885.19	1/4	3,692.22	1/4	3,499.25	1/4	3,155.52	1/4	2,797.16	1/4	2,437.90
1/2	1/2	1/2	1/2	1/2	4,255.43	1/2	4,072.70	1/2	3,881.17	1/2	3,688.20	1/2	3,495.23	1/2	3,148.08	1/2	2,789.69	1/2	2,430.41
3/4	3/4	3/4	3/4	3/4	4,251.72	3/4	4,068.78	3/4	3,877.15	3/4	3,684.18	3/4	3,491.20	3/4	3,140.64	3/4	2,782.22	3/4	2,422.92
11	11	11	11	11	4,248.01	11	4,064.86	11	3,873.13	11	3,680.16	11	3,487.18	11	3,133.20	11	2,774.75	11	2,415.44
1/4	1/4	1/4	1/4	1/4	4,244.30	1/4	4,060.95	1/4	3,869.11	1/4	3,676.14	1/4	3,483.16	1/4	3,125.76	1/4	2,767.27	1/4	2,407.95
1/2	1/2	1/2	1/2	1/2	4,240.57	1/2	4,057.01	1/2	3,865.09	1/2	3,672.12	1/2	3,475.71	1/2	3,118.29	1/2	2,759.79	1/2	2,400.46
3/4	3/4	3/4	3/4	3/4	4,236.84	3/4	4,053.08	3/4	3,861.07	3/4	3,668.10	3/4	3,468.26	3/4	3,110.82	3/4	2,752.30	3/4	2,392.98

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.
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" HERMETIC CLOSED GAUGING VALVE.
GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 55'-00" FORWARD OF AFT BULKHEAD.

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



BARGE "HSM 1001"

3 STBD
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
N		N		N		N		N		N		N		N		N		N	
0	2,026.14	0	1,666.71	0	1,308.69	0	959.72	0	606.85	0	247.31	0		0				0	
1/4	2,018.65	1/4	1,659.22	1/4	1,301.27	1/4	952.57	1/4	599.36	1/4	239.82	1/4		1/4				1/4	
1/2	2,011.16	1/2	1,651.73	1/2	1,293.84	1/2	945.42	1/2	591.87	1/2	232.33	1/2		1/2				1/2	
3/4	2,003.68	3/4	1,644.24	3/4	1,286.41	3/4	938.26	3/4	584.38	3/4	224.84	3/4		3/4				3/4	
1	1,996.19	1	1,636.75	1	1,278.99	1	931.11	1	576.89	1	217.35	1		1				1	
1/4	1,988.70	1/4	1,629.27	1/4	1,271.56	1/4	923.96	1/4	569.39	1/4	209.86	1/4		1/4				1/4	
1/2	1,981.21	1/2	1,621.78	1/2	1,264.13	1/2	916.80	1/2	561.90	1/2	202.37	1/2		1/2				1/2	
3/4	1,973.72	3/4	1,614.29	3/4	1,256.71	3/4	909.65	3/4	554.41	3/4	194.88	3/4		3/4				3/4	
2	1,966.23	2	1,606.80	2	1,249.28	2	902.49	2	546.92	2	187.39	2		2				2	
1/4	1,958.75	1/4	1,599.31	1/4	1,241.85	1/4	895.34	1/4	539.43	1/4	179.90	1/4		1/4				1/4	
1/2	1,951.26	1/2	1,591.82	1/2	1,234.44	1/2	888.16	1/2	531.94	1/2	172.41	1/2		1/2				1/2	
3/4	1,943.77	3/4	1,584.34	3/4	1,227.03	3/4	880.98	3/4	524.45	3/4	164.92	3/4		3/4				3/4	
3	1,936.28	3	1,576.85	3	1,219.62	3	873.80	3	516.96	3	157.43	3		3				3	
1/4	1,928.79	1/4	1,569.36	1/4	1,212.21	1/4	866.62	1/4	509.47	1/4	149.94	1/4		1/4				1/4	
1/2	1,921.31	1/2	1,561.87	1/2	1,204.81	1/2	859.45	1/2	501.98	1/2	142.46	1/2		1/2				1/2	
3/4	1,913.82	3/4	1,554.38	3/4	1,197.40	3/4	852.27	3/4	494.49	3/4	134.97	3/4		3/4				3/4	
4	1,906.33	4	1,546.90	4	1,189.99	4	845.09	4	487.00	4	127.49	4		4				4	
1/4	1,898.84	1/4	1,539.41	1/4	1,182.58	1/4	837.91	1/4	479.51	1/4	120.00	1/4		1/4				1/4	
1/2	1,891.35	1/2	1,531.92	1/2	1,175.15	1/2	830.70	1/2	472.02	1/2	112.54	1/2		1/2				1/2	
3/4	1,883.86	3/4	1,524.43	3/4	1,167.71	3/4	823.50	3/4	464.53	3/4	105.09	3/4		3/4				3/4	
5	1,876.38	5	1,516.94	5	1,160.28	5	816.29	5	457.04	5	97.63	5		5				5	
1/4	1,868.89	1/4	1,509.45	1/4	1,152.84	1/4	809.08	1/4	449.55	1/4	90.18	1/4		1/4				1/4	
1/2	1,861.40	1/2	1,501.97	1/2	1,145.69	1/2	801.59	1/2	442.06	1/2	83.33	1/2		1/2				1/2	
3/4	1,853.91	3/4	1,494.48	3/4	1,138.54	3/4	794.10	3/4	434.57	3/4	76.47	3/4		3/4				3/4	
6	1,846.42	6	1,486.99	6	1,131.38	6	786.61	6	427.08	6	69.62	6		6				6	
1/4	1,838.93	1/4	1,479.50	1/4	1,124.23	1/4	779.12	1/4	419.59	1/4	62.77	1/4		1/4				1/4	
1/2	1,831.45	1/2	1,472.07	1/2	1,117.08	1/2	771.63	1/2	412.10	1/2	57.15	1/2		1/2				1/2	
3/4	1,823.96	3/4	1,464.65	3/4	1,109.92	3/4	764.14	3/4	404.61	3/4	51.54	3/4		3/4				3/4	
7	1,816.47	7	1,457.22	7	1,102.77	7	756.65	7	397.12	7	45.92	7		7				7	
1/4	1,808.98	1/4	1,449.80	1/4	1,095.62	1/4	749.16	1/4	389.63	1/4	40.31	1/4		1/4				1/4	
1/2	1,801.49	1/2	1,442.37	1/2	1,088.47	1/2	741.67	1/2	382.14	1/2	35.93	1/2		1/2				1/2	
3/4	1,794.01	3/4	1,434.94	3/4	1,081.31	3/4	734.18	3/4	374.65	3/4	31.56	3/4		3/4				3/4	
8	1,786.52	8	1,427.52	8	1,074.16	8	726.69	8	367.16	8	27.18	8		8				8	
1/4	1,779.03	1/4	1,420.09	1/4	1,067.01	1/4	719.20	1/4	359.67	1/4	22.81	1/4		1/4				1/4	
1/2	1,771.54	1/2	1,412.66	1/2	1,059.86	1/2	711.71	1/2	352.18	1/2		1/2		1/2				1/2	
3/4	1,764.05	3/4	1,405.24	3/4	1,052.70	3/4	704.22	3/4	344.69	3/4		3/4		3/4				3/4	
9	1,756.56	9	1,397.81	9	1,045.55	9	696.73	9	337.20	9		9		9				9	
1/4	1,749.08	1/4	1,390.38	1/4	1,038.40	1/4	689.24	1/4	329.71	1/4		1/4		1/4				1/4	
1/2	1,741.59	1/2	1,382.96	1/2	1,031.25	1/2	681.75	1/2	322.22	1/2		1/2		1/2				1/2	
3/4	1,734.10	3/4	1,375.53	3/4	1,024.09	3/4	674.26	3/4	314.72	3/4		3/4		3/4				3/4	
10	1,726.61	10	1,368.10	10	1,016.94	10	666.77	10	307.23	10		10		10				10	
1/4	1,719.12	1/4	1,360.68	1/4	1,009.79	1/4	659.28	1/4	299.74	1/4		1/4		1/4				1/4	
1/2	1,711.64	1/2	1,353.25	1/2	1,002.64	1/2	651.79	1/2	292.25	1/2		1/2		1/2				1/2	
3/4	1,704.15	3/4	1,345.82	3/4	995.48	3/4	644.30	3/4	284.76	3/4		3/4		3/4				3/4	
11	1,696.66	11	1,338.40	11	988.33	11	636.81	11	277.27	11		11		11				11	
1/4	1,689.17	1/4	1,330.97	1/4	981.18	1/4	629.32	1/4	269.78	1/4		1/4		1/4				1/4	
1/2	1,681.68	1/2	1,323.54	1/2	974.03	1/2	621.83	1/2	262.29	1/2		1/2		1/2				1/2	
3/4	1,674.19	3/4	1,316.12	3/4	966.87	3/4	614.34	3/4	254.80	3/4		3/4		3/4				3/4	

STRAPPED: 09/04/2013 CL
CALCULATED: 09/05/2013 CL
PRINTED: 09/05/2013 CLCANCELS AND SUPERCEDES
ALL PRIOR TO 09/2013

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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