



BARGE "HSM 1002"

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	- 00-1/4	00-1/4	- 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	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2
2 PORT	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8
2 STBD	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8
3 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"

October 31, 2013

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

<http://www.pmacorp.net>



BARGE "HSM 1002"

1 PORT
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09"

N	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	0	0	4,962.67	0	4,618.44	0	4,258.23	0	3,895.87	0	3,533.52	0	3,171.16	0	2,808.80	0	2,446.38
14	14	14	14	14	4,955.67	14	4,611.06	14	4,250.68	14	3,888.32	14	3,525.97	14	3,163.61	14	2,801.25	14	2,438.83
12	12	12	12	12	4,948.68	12	4,603.67	12	4,243.13	12	3,880.78	12	3,518.42	12	3,156.06	12	2,793.70	12	2,431.28
34	34	34	34	34	4,941.68	34	4,596.29	34	4,235.58	34	3,873.23	34	3,510.87	34	3,148.51	34	2,786.16	34	2,423.72
1	1	1	1	1	5,244.15	1	4,934.68	1	4,588.90	1	4,228.03	1	3,865.68	1	3,503.32	1	3,140.96	1	2,778.61
14	14	14	14	14	5,239.82	14	4,927.65	14	4,581.49	14	4,220.48	14	3,858.13	14	3,495.77	14	3,133.41	14	2,771.06
12	12	12	12	12	5,235.49	12	4,920.63	12	4,574.07	12	4,212.94	12	3,850.58	12	3,488.22	12	3,125.87	12	2,763.51
34	34	34	34	34	5,231.15	34	4,913.60	34	4,566.66	34	4,205.39	34	3,843.03	34	3,480.67	34	3,118.32	34	2,755.96
2	2	2	2	2	5,226.82	2	4,906.57	2	4,559.24	2	4,197.84	2	3,835.48	2	3,473.12	2	3,110.77	2	2,748.41
14	14	14	14	14	5,221.26	14	4,899.51	14	4,551.80	14	4,190.29	14	3,827.93	14	3,465.57	14	3,103.22	14	2,740.86
12	12	12	12	12	5,215.70	12	4,892.46	12	4,544.36	12	4,182.74	12	3,820.38	12	3,458.03	12	3,095.67	12	2,733.31
34	34	34	34	34	5,210.13	34	4,885.40	34	4,536.91	34	4,175.19	34	3,812.83	34	3,450.48	34	3,088.12	34	2,725.76
3	3	3	3	3	5,204.57	3	4,878.34	3	4,529.47	3	4,167.64	3	3,805.28	3	3,442.93	3	3,080.57	3	2,718.21
14	14	14	14	14	5,198.54	14	4,871.26	14	4,521.99	14	4,160.09	14	3,797.74	14	3,435.38	14	3,073.02	14	2,710.66
12	12	12	12	12	5,192.52	12	4,864.17	12	4,514.52	12	4,152.54	12	3,790.19	12	3,427.83	12	3,065.47	12	2,703.12
34	34	34	34	34	5,186.49	34	4,857.08	34	4,507.04	34	4,144.99	34	3,782.64	34	3,420.28	34	3,057.92	34	2,695.57
4	4	4	4	4	5,180.46	4	4,850.00	4	4,499.57	4	4,137.44	4	3,775.09	4	3,412.73	4	3,050.37	4	2,688.02
14	14	14	14	14	5,173.81	14	4,842.88	14	4,492.06	14	4,129.90	14	3,767.54	14	3,405.18	14	3,042.83	14	2,680.47
12	12	12	12	12	5,167.15	12	4,835.76	12	4,484.56	12	4,122.35	12	3,759.99	12	3,397.63	12	3,035.28	12	2,672.92
34	34	34	34	34	5,160.50	34	4,828.64	34	4,477.06	34	4,114.80	34	3,752.44	34	3,390.08	34	3,027.73	34	2,665.37
5	5	5	5	5	5,153.85	5	4,821.53	5	4,469.55	5	4,107.25	5	3,744.89	5	3,382.53	5	3,020.18	5	2,657.82
14	14	14	14	14	5,147.14	14	4,814.38	14	4,462.02	14	4,099.70	14	3,737.34	14	3,374.99	14	3,012.83	14	2,650.27
12	12	12	12	12	5,140.43	12	4,807.23	12	4,454.48	12	4,092.15	12	3,729.79	12	3,367.44	12	3,005.08	12	2,642.72
34	34	34	34	34	5,133.72	34	4,800.09	34	4,446.94	34	4,084.60	34	3,722.24	34	3,359.89	34	2,997.53	34	2,635.17
6	6	6	6	6	5,127.01	6	4,792.94	6	4,439.41	6	4,077.05	6	3,714.70	6	3,352.34	6	2,989.98	6	2,627.62
14	14	14	14	14	5,120.26	14	4,785.76	14	4,431.86	14	4,069.50	14	3,707.15	14	3,344.79	14	2,982.43	14	2,620.07
12	12	12	12	12	5,113.51	12	4,778.59	12	4,424.31	12	4,061.95	12	3,699.60	12	3,337.24	12	2,974.88	12	2,612.52
34	34	34	34	34	5,106.77	34	4,771.41	34	4,416.76	34	4,054.40	34	3,692.05	34	3,329.69	34	2,967.33	34	2,604.97
7	7	7	7	7	5,100.02	7	4,764.23	7	4,409.21	7	4,046.86	7	3,684.50	7	3,322.14	7	2,959.79	7	2,597.42
14	14	14	14	14	5,093.24	14	4,757.03	14	4,401.66	14	4,039.31	14	3,676.95	14	3,314.69	14	2,952.24	14	2,589.87
12	12	12	12	12	5,086.46	12	4,749.82	12	4,394.11	12	4,031.76	12	3,669.40	12	3,307.04	12	2,944.69	12	2,582.31
34	34	34	34	34	5,079.68	34	4,742.61	34	4,386.57	34	4,024.21	34	3,661.85	34	3,299.49	34	2,937.14	34	2,574.76
8	8	8	8	8	5,072.90	8	4,735.41	8	4,379.02	8	4,016.66	8	3,654.30	8	3,291.95	8	2,929.59	8	2,567.21
14	14	14	14	14	5,066.09	14	4,728.14	14	4,371.47	14	4,009.11	14	3,646.75	14	3,284.40	14	2,922.04	14	2,559.66
12	12	12	12	12	5,059.28	12	4,720.88	12	4,363.92	12	4,001.56	12	3,639.20	12	3,276.85	12	2,914.49	12	2,552.11
34	34	34	34	34	5,052.48	34	4,713.61	34	4,356.37	34	3,994.01	34	3,631.66	34	3,269.30	34	2,906.94	34	2,544.55
9	9	9	9	9	5,045.67	9	4,706.35	9	4,348.82	9	3,986.46	9	3,624.11	9	3,261.75	9	2,899.39	9	2,537.00
14	14	14	14	14	5,038.83	14	4,699.05	14	4,341.27	14	3,978.91	14	3,616.56	14	3,254.20	14	2,891.84	14	2,529.45
12	12	12	12	12	5,031.99	12	4,691.75	12	4,333.72	12	3,971.36	12	3,609.01	12	3,246.65	12	2,884.29	12	2,521.90
34	34	34	34	34	5,025.15	34	4,684.46	34	4,326.17	34	3,963.82	34	3,601.46	34	3,239.10	34	2,876.75	34	2,514.35
10	10	10	10	10	5,018.31	10	4,677.16	10	4,318.62	10	3,956.27	10	3,593.91	10	3,231.55	10	2,869.20	10	2,506.79
14	14	14	14	14	5,011.37	14	4,669.84	14	4,311.07	14	3,948.72	14	3,586.36	14	3,224.00	14	2,861.65	14	2,499.24
12	12	12	12	12	5,004.43	12	4,662.51	12	4,303.52	12	3,941.17	12	3,578.81	12	3,216.45	12	2,854.10	12	2,491.69
34	34	34	34	34	4,997.49	34	4,655.19	34	4,295.98	34	3,933.62	34	3,571.26	34	3,208.91	34	2,846.55	34	2,484.14
11	11	11	11	11	4,990.55	11	4,647.86	11	4,288.43	11	3,926.07	11	3,563.71	11	3,201.36	11	2,839.00	11	2,476.59
14	14	14	14	14	4,983.58	14	4,640.51	14	4,280.88	14	3,918.52	14	3,556.16	14	3,193.81	14	2,831.45	14	2,469.03
12	12	12	12	12	4,976.51	12	4,633.15	12	4,273.33	12	3,910.97	12	3,548.61	12	3,186.26	12	2,823.90	12	2,461.48
34	34	34	34	34	4,969.44	34	4,625.80	34	4,265.78	34	3,903.42	34	3,541.07	34	3,178.71	34	2,816.35	34	2,453.93

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'-09" OFF CENTERLINE AND 42'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT

& ANALYSIS, INC.

P.O. Box 2092

Portland, Texas 77566

http://www.pmacorp.net

Paul J. Brown



BARGE "HSM 1002"

1 PORT
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09"

N	10 FT.	N	11 FT.	N	12 FT.	N	13 FT.	N	14 FT.	N	15 FT.	N	16 FT.	N	17 FT.	N	18 FT.	N	19 FT.
0	2,083.89	0	1,721.40	0	1,358.91	0	996.81	0	634.43	0	271.95	0		0		0		0	
1/4	2,076.34	1/4	1,713.84	1/4	1,351.35	1/4	989.27	1/4	626.88	1/4	264.40	1/4		1/4		1/4		1/4	
1/2	2,068.78	1/2	1,706.29	1/2	1,343.80	1/2	981.73	1/2	619.32	1/2	256.85	1/2		1/2		1/2		1/2	
3/4	2,061.23	3/4	1,698.74	3/4	1,336.25	3/4	974.19	3/4	611.77	3/4	249.30	3/4		3/4		3/4		3/4	
1	2,053.68	1	1,691.19	1	1,328.70	1	966.65	1	604.22	1	241.74	1		1		1		1	
1 1/4	2,046.13	1 1/4	1,683.64	1 1/4	1,321.15	1 1/4	959.11	1 1/4	596.67	1 1/4	234.19	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	2,038.58	1 1/2	1,676.09	1 1/2	1,313.59	1 1/2	951.57	1 1/2	589.12	1 1/2	226.64	1 1/2		1 1/2		1 1/2		1 1/2	
1 3/4	2,031.02	1 3/4	1,668.53	1 3/4	1,306.04	1 3/4	944.03	1 3/4	581.57	1 3/4	219.09	1 3/4		1 3/4		1 3/4		1 3/4	
2	2,023.47	2	1,660.98	2	1,298.49	2	936.49	2	574.01	2	211.54	2		2		2		2	
2 1/4	2,015.92	2 1/4	1,653.43	2 1/4	1,290.94	2 1/4	928.94	2 1/4	566.46	2 1/4	203.99	2 1/4		2 1/4		2 1/4		2 1/4	
2 1/2	2,008.37	2 1/2	1,645.88	2 1/2	1,283.39	2 1/2	921.39	2 1/2	558.91	2 1/2	196.43	2 1/2		2 1/2		2 1/2		2 1/2	
2 3/4	2,000.82	2 3/4	1,638.33	2 3/4	1,275.83	2 3/4	913.84	2 3/4	551.36	2 3/4	188.88	2 3/4		2 3/4		2 3/4		2 3/4	
3	1,993.27	3	1,630.77	3	1,268.28	3	906.28	3	543.81	3	181.33	3		3		3		3	
3 1/4	1,985.71	3 1/4	1,623.22	3 1/4	1,260.73	3 1/4	898.73	3 1/4	536.26	3 1/4	173.78	3 1/4		3 1/4		3 1/4		3 1/4	
3 1/2	1,978.16	3 1/2	1,615.67	3 1/2	1,253.18	3 1/2	891.18	3 1/2	528.70	3 1/2	166.23	3 1/2		3 1/2		3 1/2		3 1/2	
3 3/4	1,970.61	3 3/4	1,608.12	3 3/4	1,245.63	3 3/4	883.63	3 3/4	521.15	3 3/4	158.68	3 3/4		3 3/4		3 3/4		3 3/4	
4	1,963.06	4	1,600.57	4	1,238.08	4	876.08	4	513.60	4	151.13	4		4		4		4	
4 1/4	1,955.51	4 1/4	1,593.01	4 1/4	1,230.54	4 1/4	868.53	4 1/4	506.05	4 1/4	143.59	4 1/4		4 1/4		4 1/4		4 1/4	
4 1/2	1,947.95	4 1/2	1,585.46	4 1/2	1,223.00	4 1/2	860.98	4 1/2	498.50	4 1/2	136.05	4 1/2		4 1/2		4 1/2		4 1/2	
4 3/4	1,940.40	4 3/4	1,577.91	4 3/4	1,215.46	4 3/4	853.42	4 3/4	490.95	4 3/4	128.51	4 3/4		4 3/4		4 3/4		4 3/4	
5	1,932.85	5	1,570.36	5	1,207.92	5	845.87	5	483.40	5	120.96	5		5		5		5	
5 1/4	1,925.30	5 1/4	1,562.81	5 1/4	1,200.38	5 1/4	838.32	5 1/4	475.84	5 1/4	113.45	5 1/4		5 1/4		5 1/4		5 1/4	
5 1/2	1,917.75	5 1/2	1,555.25	5 1/2	1,192.84	5 1/2	830.77	5 1/2	468.29	5 1/2	105.93	5 1/2		5 1/2		5 1/2		5 1/2	
5 3/4	1,910.19	5 3/4	1,547.70	5 3/4	1,185.30	5 3/4	823.22	5 3/4	460.74	5 3/4	98.42	5 3/4		5 3/4		5 3/4		5 3/4	
6	1,902.64	6	1,540.15	6	1,177.76	6	815.67	6	453.19	6	90.90	6		6		6		6	
6 1/4	1,895.09	6 1/4	1,532.60	6 1/4	1,170.22	6 1/4	808.11	6 1/4	445.64	6 1/4	83.38	6 1/4		6 1/4		6 1/4		6 1/4	
6 1/2	1,887.54	6 1/2	1,525.05	6 1/2	1,162.68	6 1/2	800.56	6 1/2	438.09	6 1/2	77.06	6 1/2		6 1/2		6 1/2		6 1/2	
6 3/4	1,879.99	6 3/4	1,517.50	6 3/4	1,155.14	6 3/4	793.01	6 3/4	430.53	6 3/4	70.14	6 3/4		6 3/4		6 3/4		6 3/4	
7	1,872.43	7	1,509.94	7	1,147.60	7	785.46	7	422.98	7	63.22	7		7		7		7	
7 1/4	1,864.88	7 1/4	1,502.39	7 1/4	1,140.06	7 1/4	777.91	7 1/4	415.43	7 1/4	57.56	7 1/4		7 1/4		7 1/4		7 1/4	
7 1/2	1,857.33	7 1/2	1,494.84	7 1/2	1,132.52	7 1/2	770.36	7 1/2	407.88	7 1/2	51.89	7 1/2		7 1/2		7 1/2		7 1/2	
7 3/4	1,849.78	7 3/4	1,487.29	7 3/4	1,124.98	7 3/4	762.80	7 3/4	400.33	7 3/4	46.23	7 3/4		7 3/4		7 3/4		7 3/4	
8	1,842.23	8	1,479.74	8	1,117.44	8	755.25	8	392.78	8	40.57	8		8		8		8	
8 1/4	1,834.68	8 1/4	1,472.18	8 1/4	1,109.90	8 1/4	747.70	8 1/4	385.22	8 1/4	36.16	8 1/4		8 1/4		8 1/4		8 1/4	
8 1/2	1,827.12	8 1/2	1,464.63	8 1/2	1,102.36	8 1/2	740.15	8 1/2	377.67	8 1/2	31.76	8 1/2		8 1/2		8 1/2		8 1/2	
8 3/4	1,819.57	8 3/4	1,457.08	8 3/4	1,094.82	8 3/4	732.60	8 3/4	370.12	8 3/4	27.36	8 3/4		8 3/4		8 3/4		8 3/4	
9	1,812.02	9	1,449.53	9	1,087.28	9	725.05	9	362.57	9	22.95	9		9		9		9	
9 1/4	1,804.47	9 1/4	1,441.98	9 1/4	1,079.74	9 1/4	717.49	9 1/4	355.02	9 1/4		9 1/4		9 1/4		9 1/4		9 1/4	
9 1/2	1,796.92	9 1/2	1,434.42	9 1/2	1,072.20	9 1/2	709.94	9 1/2	347.47	9 1/2		9 1/2		9 1/2		9 1/2		9 1/2	
9 3/4	1,789.36	9 3/4	1,426.87	9 3/4	1,064.66	9 3/4	702.39	9 3/4	339.91	9 3/4		9 3/4		9 3/4		9 3/4		9 3/4	
10	1,781.81	10	1,419.32	10	1,057.12	10	694.84	10	332.36	10		10		10		10		10	
10 1/4	1,774.26	10 1/4	1,411.77	10 1/4	1,049.59	10 1/4	687.29	10 1/4	324.81	10 1/4		10 1/4		10 1/4		10 1/4		10 1/4	
10 1/2	1,766.71	10 1/2	1,404.22	10 1/2	1,042.05	10 1/2	679.74	10 1/2	317.26	10 1/2		10 1/2		10 1/2		10 1/2		10 1/2	
10 3/4	1,759.16	10 3/4	1,396.67	10 3/4	1,034.51	10 3/4	672.19	10 3/4	309.71	10 3/4		10 3/4		10 3/4		10 3/4		10 3/4	
11	1,751.60	11	1,389.11	11	1,026.97	11	664.63	11	302.16	11		11		11		11		11	
11 1/4	1,744.05	11 1/4	1,381.56	11 1/4	1,019.43	11 1/4	657.08	11 1/4	294.61	11 1/4		11 1/4		11 1/4		11 1/4		11 1/4	
11 1/2	1,736.50	11 1/2	1,374.01	11 1/2	1,011.89	11 1/2	649.53	11 1/2	287.05	11 1/2		11 1/2		11 1/2		11 1/2		11 1/2	
11 3/4	1,728.95	11 3/4	1,366.46	11 3/4	1,004.35	11 3/4	641.98	11 3/4	279.50	11 3/4		11 3/4		11 3/4		11 3/4		11 3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/31/2013 CL
CALCULATED: 11/01/2013 CL
PRINTED: 11/02/2013 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2013

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



BARGE "HSM 1002"

1 STBD
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09"

N	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	4,960.77	0	4,616.55	0	4,256.34	0	3,893.98	0	3,531.62	0	3,169.27	0	2,806.91	0	2,444.48	0	2,082.05
14	14	14	4,953.78	14	4,609.16	14	4,248.79	14	3,886.43	14	3,524.07	14	3,161.72	14	2,799.36	14	2,436.93	14	2,075.06
12	12	12	4,946.78	12	4,601.78	12	4,241.24	12	3,878.88	12	3,516.52	12	3,154.17	12	2,791.81	12	2,429.38	12	2,067.66
34	34	34	4,939.78	34	4,594.39	34	4,233.69	34	3,871.33	34	3,508.97	34	3,146.62	34	2,784.26	34	2,421.83	34	2,059.23
1	1	1	5,242.25	1	4,932.78	1	4,587.01	1	4,226.14	1	3,863.78	1	3,501.43	1	3,139.07	1	2,776.71	1	2,414.28
14	14	14	5,237.92	14	4,925.76	14	4,579.59	14	4,218.59	14	3,856.23	14	3,493.88	14	3,131.52	14	2,769.16	14	2,408.72
12	12	12	5,233.59	12	4,918.73	12	4,572.18	12	4,211.04	12	3,848.68	12	3,486.33	12	3,123.97	12	2,761.61	12	2,399.17
34	34	34	5,229.25	34	4,911.70	34	4,564.76	34	4,203.49	34	3,841.14	34	3,478.78	34	3,116.42	34	2,754.06	34	2,391.62
2	2	2	5,224.92	2	4,904.67	2	4,557.35	2	4,195.94	2	3,833.59	2	3,471.23	2	3,108.87	2	2,746.52	2	2,384.07
14	14	14	5,219.38	14	4,897.62	14	4,549.90	14	4,188.39	14	3,826.04	14	3,463.68	14	3,101.32	14	2,738.97	14	2,376.52
12	12	12	5,213.80	12	4,890.56	12	4,542.46	12	4,180.84	12	3,818.49	12	3,456.13	12	3,093.77	12	2,731.42	12	2,368.97
34	34	34	5,208.23	34	4,883.50	34	4,535.01	34	4,173.30	34	3,810.94	34	3,448.58	34	3,086.23	34	2,723.87	34	2,361.41
3	3	3	5,202.67	3	4,876.45	3	4,527.57	3	4,165.75	3	3,803.39	3	3,441.03	3	3,078.68	3	2,716.32	3	2,353.86
14	14	14	5,196.64	14	4,869.36	14	4,520.10	14	4,158.20	14	3,795.84	14	3,433.48	14	3,071.13	14	2,708.77	14	2,346.31
12	12	12	5,190.62	12	4,862.27	12	4,512.62	12	4,150.65	12	3,788.29	12	3,425.93	12	3,063.58	12	2,701.22	12	2,338.76
34	34	34	5,184.59	34	4,855.19	34	4,505.15	34	4,143.10	34	3,780.74	34	3,418.39	34	3,056.03	34	2,693.67	34	2,331.21
4	4	4	5,178.56	4	4,848.10	4	4,497.67	4	4,135.55	4	3,773.19	4	3,410.84	4	3,048.48	4	2,686.12	4	2,323.65
14	14	14	5,171.91	14	4,840.98	14	4,490.17	14	4,128.00	14	3,765.64	14	3,403.29	14	3,040.93	14	2,678.57	14	2,316.10
12	12	12	5,165.25	12	4,833.86	12	4,482.66	12	4,120.45	12	3,758.09	12	3,395.74	12	3,033.38	12	2,671.02	12	2,308.55
34	34	34	5,158.60	34	4,826.75	34	4,475.16	34	4,112.90	34	3,750.55	34	3,388.19	34	3,025.83	34	2,663.48	34	2,301.00
5	5	5	5,151.95	5	4,819.63	5	4,467.65	5	4,105.35	5	3,743.00	5	3,380.64	5	3,018.28	5	2,655.93	5	2,293.45
14	14	14	5,145.24	14	4,812.48	14	4,460.12	14	4,097.80	14	3,735.45	14	3,373.09	14	3,010.73	14	2,648.38	14	2,285.89
12	12	12	5,138.53	12	4,805.34	12	4,452.58	12	4,090.26	12	3,727.90	12	3,365.54	12	3,003.18	12	2,640.83	12	2,278.34
34	34	34	5,131.82	34	4,798.19	34	4,445.05	34	4,082.71	34	3,720.35	34	3,357.99	34	2,995.64	34	2,633.28	34	2,270.79
6	6	6	5,125.11	6	4,791.04	6	4,437.51	6	4,075.16	6	3,712.80	6	3,350.44	6	2,988.09	6	2,625.73	6	2,263.24
14	14	14	5,118.36	14	4,783.87	14	4,429.96	14	4,067.61	14	3,705.25	14	3,342.89	14	2,980.54	14	2,618.18	14	2,255.69
12	12	12	5,111.62	12	4,776.69	12	4,422.42	12	4,060.06	12	3,697.70	12	3,335.35	12	2,972.99	12	2,610.63	12	2,248.13
34	34	34	5,104.87	34	4,769.51	34	4,414.87	34	4,052.51	34	3,690.15	34	3,327.80	34	2,965.44	34	2,603.07	34	2,240.58
7	7	7	5,098.12	7	4,762.34	7	4,407.32	7	4,044.96	7	3,682.60	7	3,320.25	7	2,957.89	7	2,595.52	7	2,233.03
14	14	14	5,091.34	14	4,755.13	14	4,399.77	14	4,037.41	14	3,675.05	14	3,312.70	14	2,950.34	14	2,587.97	14	2,225.48
12	12	12	5,084.56	12	4,747.92	12	4,392.22	12	4,029.86	12	3,667.51	12	3,305.15	12	2,942.79	12	2,580.42	12	2,217.93
34	34	34	5,077.78	34	4,740.72	34	4,384.67	34	4,022.31	34	3,659.96	34	3,297.60	34	2,935.24	34	2,572.87	34	2,210.38
8	8	8	5,071.00	8	4,733.51	8	4,377.12	8	4,014.76	8	3,652.41	8	3,290.05	8	2,927.69	8	2,565.31	8	2,202.82
14	14	14	5,064.20	14	4,726.25	14	4,369.57	14	4,007.22	14	3,644.86	14	3,282.50	14	2,920.14	14	2,557.76	14	2,195.27
12	12	12	5,057.39	12	4,718.98	12	4,362.02	12	3,999.67	12	3,637.31	12	3,274.95	12	2,912.60	12	2,550.21	12	2,187.72
34	34	34	5,050.58	34	4,711.71	34	4,354.47	34	3,992.12	34	3,629.76	34	3,267.40	34	2,905.05	34	2,542.66	34	2,180.17
9	9	9	5,043.77	9	4,704.45	9	4,346.92	9	3,984.57	9	3,622.21	9	3,259.85	9	2,897.50	9	2,535.11	9	2,172.62
14	14	14	5,036.93	14	4,697.15	14	4,339.38	14	3,977.02	14	3,614.86	14	3,252.31	14	2,889.95	14	2,527.56	14	2,165.06
12	12	12	5,030.09	12	4,689.86	12	4,331.83	12	3,969.47	12	3,607.11	12	3,244.76	12	2,882.40	12	2,520.00	12	2,157.51
34	34	34	5,023.25	34	4,682.56	34	4,324.28	34	3,961.92	34	3,599.56	34	3,237.21	34	2,874.85	34	2,512.45	34	2,149.96
10	10	10	5,016.41	10	4,675.27	10	4,316.73	10	3,954.37	10	3,592.01	10	3,229.66	10	2,867.30	10	2,504.90	10	2,142.41
14	14	14	5,009.47	14	4,667.94	14	4,309.18	14	3,946.82	14	3,584.47	14	3,222.11	14	2,859.75	14	2,497.35	14	2,134.88
12	12	12	5,002.53	12	4,660.62	12	4,301.63	12	3,939.27	12	3,576.92	12	3,214.56	12	2,852.20	12	2,489.80	12	2,127.30
34	34	34	4,995.59	34	4,653.29	34	4,294.08	34	3,931.72	34	3,569.37	34	3,207.01	34	2,844.65	34	2,482.24	34	2,119.75
11	11	11	4,988.65	11	4,645.97	11	4,286.53	11	3,924.18	11	3,561.82	11	3,199.46	11	2,837.10	11	2,474.69	11	2,112.20
14	14	14	4,981.68	14	4,638.61	14	4,278.98	14	3,916.63	14	3,554.27	14	3,191.91	14	2,829.56	14	2,467.14	14	2,104.65
12	12	12	4,974.71	12	4,631.26	12	4,271.43	12	3,909.08	12	3,546.72	12	3,184.36	12	2,822.01	12	2,459.59	12	2,097.10
34	34	34	4,967.74	34	4,623.90	34	4,263.88	34	3,901.53	34	3,539.17	34	3,176.81	34	2,814.46	34	2,452.04	34	2,089.55

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'-09" OFF CENTERLINE AND 42'-00" FORWARD OF AFT BULKHEAD.

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



BARGE "HSM 1002"

1 STBD
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09"

N	10 FT.	N	11 FT.	N	12 FT.	N	13 FT.	N	14 FT.	N	15 FT.	N	16 FT.	N	17 FT.	N	18 FT.	N	19 FT.
0	2,081.99	0	1,719.50	0	1,357.01	0	998.34	0	634.43	0	271.95	0		0		0		0	
1/4	2,074.44	1/4	1,711.95	1/4	1,349.46	1/4	988.84	1/4	626.88	1/4	264.40	1/4		1/4		1/4		1/4	
1/2	2,066.89	1/2	1,704.40	1/2	1,341.91	1/2	981.34	1/2	619.33	1/2	256.85	1/2		1/2		1/2		1/2	
3/4	2,059.34	3/4	1,696.85	3/4	1,334.36	3/4	973.84	3/4	611.77	3/4	249.30	3/4		3/4		3/4		3/4	
1	2,051.79	1	1,689.29	1	1,326.80	1	966.34	1	604.22	1	241.75	1		1		1		1	
1 1/4	2,044.23	1 1/4	1,681.74	1 1/4	1,319.25	1 1/4	958.84	1 1/4	596.67	1 1/4	234.19	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	2,036.68	1 1/2	1,674.19	1 1/2	1,311.70	1 1/2	951.33	1 1/2	589.12	1 1/2	226.64	1 1/2		1 1/2		1 1/2		1 1/2	
3 1/4	2,029.13	3 1/4	1,666.64	3 1/4	1,304.15	3 1/4	943.83	3 1/4	581.57	3 1/4	219.09	3 1/4		3 1/4		3 1/4		3 1/4	
2	2,021.58	2	1,659.09	2	1,296.60	2	936.33	2	574.02	2	211.54	2		2		2		2	
1 1/4	2,014.03	1 1/4	1,651.53	1 1/4	1,289.04	1 1/4	928.82	1 1/4	566.47	1 1/4	203.99	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	2,006.47	1 1/2	1,643.98	1 1/2	1,281.49	1 1/2	921.31	1 1/2	558.91	1 1/2	196.44	1 1/2		1 1/2		1 1/2		1 1/2	
3 1/4	1,998.92	3 1/4	1,636.43	3 1/4	1,273.94	3 1/4	913.80	3 1/4	551.36	3 1/4	188.89	3 1/4		3 1/4		3 1/4		3 1/4	
3	1,991.37	3	1,628.88	3	1,266.39	3	906.29	3	543.81	3	181.33	3		3		3		3	
1 1/4	1,983.82	1 1/4	1,621.33	1 1/4	1,258.88	1 1/4	898.74	1 1/4	536.26	1 1/4	173.78	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,976.27	1 1/2	1,613.78	1 1/2	1,251.36	1 1/2	891.18	1 1/2	528.71	1 1/2	166.23	1 1/2		1 1/2		1 1/2		1 1/2	
3 1/4	1,968.71	3 1/4	1,606.22	3 1/4	1,243.85	3 1/4	883.63	3 1/4	521.16	3 1/4	158.68	3 1/4		3 1/4		3 1/4		3 1/4	
4	1,961.16	4	1,598.67	4	1,236.34	4	876.08	4	513.60	4	151.13	4		4		4		4	
1 1/4	1,953.61	1 1/4	1,591.12	1 1/4	1,228.84	1 1/4	868.53	1 1/4	506.05	1 1/4	143.59	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,946.06	1 1/2	1,583.57	1 1/2	1,221.34	1 1/2	860.98	1 1/2	498.50	1 1/2	136.05	1 1/2		1 1/2		1 1/2		1 1/2	
3 1/4	1,938.51	3 1/4	1,576.02	3 1/4	1,213.84	3 1/4	853.43	3 1/4	490.95	3 1/4	128.51	3 1/4		3 1/4		3 1/4		3 1/4	
5	1,930.96	5	1,568.46	5	1,206.34	5	845.87	5	483.40	5	120.97	5		5		5		5	
1 1/4	1,923.40	1 1/4	1,560.91	1 1/4	1,198.84	1 1/4	838.32	1 1/4	475.85	1 1/4	113.45	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,915.85	1 1/2	1,553.36	1 1/2	1,191.34	1 1/2	830.77	1 1/2	468.29	1 1/2	105.94	1 1/2		1 1/2		1 1/2		1 1/2	
3 1/4	1,908.30	3 1/4	1,545.81	3 1/4	1,183.84	3 1/4	823.22	3 1/4	460.74	3 1/4	98.42	3 1/4		3 1/4		3 1/4		3 1/4	
6	1,900.75	6	1,538.26	6	1,176.34	6	815.67	6	453.19	6	90.90	6		6		6		6	
1 1/4	1,893.20	1 1/4	1,530.70	1 1/4	1,168.84	1 1/4	808.12	1 1/4	445.64	1 1/4	83.38	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,885.64	1 1/2	1,523.15	1 1/2	1,161.34	1 1/2	800.56	1 1/2	438.09	1 1/2	77.06	1 1/2		1 1/2		1 1/2		1 1/2	
3 1/4	1,878.09	3 1/4	1,515.60	3 1/4	1,153.84	3 1/4	793.01	3 1/4	430.54	3 1/4	70.14	3 1/4		3 1/4		3 1/4		3 1/4	
7	1,870.54	7	1,508.05	7	1,146.34	7	785.46	7	422.98	7	63.22	7		7		7		7	
1 1/4	1,862.99	1 1/4	1,500.50	1 1/4	1,138.84	1 1/4	777.91	1 1/4	415.43	1 1/4	57.56	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,855.44	1 1/2	1,492.94	1 1/2	1,131.34	1 1/2	770.36	1 1/2	407.88	1 1/2	51.90	1 1/2		1 1/2		1 1/2		1 1/2	
3 1/4	1,847.88	3 1/4	1,485.39	3 1/4	1,123.84	3 1/4	762.81	3 1/4	400.33	3 1/4	46.23	3 1/4		3 1/4		3 1/4		3 1/4	
8	1,840.33	8	1,477.84	8	1,116.34	8	755.26	8	392.78	8	40.57	8		8		8		8	
1 1/4	1,832.78	1 1/4	1,470.29	1 1/4	1,108.84	1 1/4	747.70	1 1/4	385.23	1 1/4	38.17	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,825.23	1 1/2	1,462.74	1 1/2	1,101.34	1 1/2	740.15	1 1/2	377.68	1 1/2	31.76	1 1/2		1 1/2		1 1/2		1 1/2	
3 1/4	1,817.68	3 1/4	1,455.19	3 1/4	1,093.84	3 1/4	732.60	3 1/4	370.12	3 1/4	27.36	3 1/4		3 1/4		3 1/4		3 1/4	
9	1,810.12	9	1,447.63	9	1,086.34	9	725.05	9	362.57	9	22.95	9		9		9		9	
1 1/4	1,802.57	1 1/4	1,440.08	1 1/4	1,078.84	1 1/4	717.50	1 1/4	355.02	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,795.02	1 1/2	1,432.53	1 1/2	1,071.34	1 1/2	709.95	1 1/2	347.47	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3 1/4	1,787.47	3 1/4	1,424.98	3 1/4	1,063.84	3 1/4	702.39	3 1/4	339.92	3 1/4		3 1/4		3 1/4		3 1/4		3 1/4	
10	1,779.92	10	1,417.43	10	1,056.34	10	694.84	10	332.37	10		10		10		10		10	
1 1/4	1,772.37	1 1/4	1,409.87	1 1/4	1,048.84	1 1/4	687.29	1 1/4	324.81	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,764.81	1 1/2	1,402.32	1 1/2	1,041.34	1 1/2	679.74	1 1/2	317.26	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3 1/4	1,757.26	3 1/4	1,394.77	3 1/4	1,033.84	3 1/4	672.19	3 1/4	309.71	3 1/4		3 1/4		3 1/4		3 1/4		3 1/4	
11	1,749.71	11	1,387.22	11	1,026.34	11	664.64	11	302.16	11		11		11		11		11	
1 1/4	1,742.16	1 1/4	1,379.67	1 1/4	1,018.84	1 1/4	657.08	1 1/4	294.61	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,734.61	1 1/2	1,372.11	1 1/2	1,011.34	1 1/2	649.53	1 1/2	287.06	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3 1/4	1,727.05	3 1/4	1,364.56	3 1/4	1,003.84	3 1/4	641.98	3 1/4	279.50	3 1/4		3 1/4		3 1/4		3 1/4		3 1/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/31/2013 CL
CALCULATED: 11/01/2013 CL
PRINTED: 11/02/2013 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2013

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77583
<http://www.pmacorp.net>



BARGE "HSM 1002"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 3/4"

N	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	0	0	4,940.83	0	4,597.23	0	4,237.94	0	3,876.66	0	3,515.39	0	3,154.12	0	2,792.85	0	2,431.51
1/4		1/4		1/4	4,933.85	1/4	4,589.87	1/4	4,230.41	1/4	3,869.14	1/4	3,507.87	1/4	3,146.59	1/4	2,785.32	1/4	2,423.98
1/2		1/2		1/2	4,926.87	1/2	4,582.51	1/2	4,222.88	1/2	3,861.61	1/2	3,500.34	1/2	3,139.07	1/2	2,777.79	1/2	2,416.45
3/4		3/4	5,228.45	3/4	4,919.89	3/4	4,575.14	3/4	4,215.36	3/4	3,854.08	3/4	3,492.81	3/4	3,131.54	3/4	2,770.27	3/4	2,408.92
1	1	1	5,224.13	1	4,912.89	1	4,567.75	1	4,207.83	1	3,846.56	1	3,485.29	1	3,124.01	1	2,762.74	1	2,401.39
1 1/4	1 1/4	1 1/4	5,219.81	1 1/4	4,905.88	1 1/4	4,560.36	1 1/4	4,200.30	1 1/4	3,839.03	1 1/4	3,477.76	1 1/4	3,116.49	1 1/4	2,755.22	1 1/4	2,393.86
1 1/2	1 1/2	1 1/2	5,215.49	1 1/2	4,898.88	1 1/2	4,552.96	1 1/2	4,192.78	1 1/2	3,831.50	1 1/2	3,470.23	1 1/2	3,108.96	1 1/2	2,747.69	1 1/2	2,386.33
1 3/4	1 3/4	1 3/4	5,211.17	1 3/4	4,891.87	1 3/4	4,545.57	1 3/4	4,185.25	1 3/4	3,823.98	1 3/4	3,462.71	1 3/4	3,101.43	1 3/4	2,740.16	1 3/4	2,378.80
2	2	2	5,205.63	2	4,884.83	2	4,538.15	2	4,177.72	2	3,816.45	2	3,455.18	2	3,093.91	2	2,732.64	2	2,371.27
2 1/4	2 1/4	2 1/4	5,200.08	2 1/4	4,877.80	2 1/4	4,530.73	2 1/4	4,170.20	2 1/4	3,808.93	2 1/4	3,447.65	2 1/4	3,086.38	2 1/4	2,725.11	2 1/4	2,363.75
2 1/2	2 1/2	2 1/2	5,194.54	2 1/2	4,870.76	2 1/2	4,523.30	2 1/2	4,162.67	2 1/2	3,801.40	2 1/2	3,440.13	2 1/2	3,078.85	2 1/2	2,717.58	2 1/2	2,356.22
2 3/4	2 3/4	2 3/4	5,188.99	2 3/4	4,863.72	2 3/4	4,515.88	2 3/4	4,155.14	2 3/4	3,793.87	2 3/4	3,432.60	2 3/4	3,071.33	2 3/4	2,710.06	2 3/4	2,348.69
3	3	3	5,182.98	3	4,856.66	3	4,508.43	3	4,147.62	3	3,786.35	3	3,425.07	3	3,063.80	3	2,702.53	3	2,341.16
3 1/4	3 1/4	3 1/4	5,176.97	3 1/4	4,849.59	3 1/4	4,500.98	3 1/4	4,140.09	3 1/4	3,778.82	3 1/4	3,417.55	3 1/4	3,056.28	3 1/4	2,695.00	3 1/4	2,333.63
3 1/2	3 1/2	3 1/2	5,170.96	3 1/2	4,842.52	3 1/2	4,493.53	3 1/2	4,132.56	3 1/2	3,771.29	3 1/2	3,410.02	3 1/2	3,048.75	3 1/2	2,687.48	3 1/2	2,326.10
3 3/4	3 3/4	3 3/4	5,164.95	3 3/4	4,835.46	3 3/4	4,486.07	3 3/4	4,125.04	3 3/4	3,763.77	3 3/4	3,402.49	3 3/4	3,041.22	3 3/4	2,679.95	3 3/4	2,318.57
4	4	4	5,158.32	4	4,828.36	4	4,478.59	4	4,117.51	4	3,756.24	4	3,394.97	4	3,033.70	4	2,672.42	4	2,311.04
4 1/4	4 1/4	4 1/4	5,151.68	4 1/4	4,821.27	4 1/4	4,471.11	4 1/4	4,109.99	4 1/4	3,748.71	4 1/4	3,387.44	4 1/4	3,026.17	4 1/4	2,664.90	4 1/4	2,303.51
4 1/2	4 1/2	4 1/2	5,145.05	4 1/2	4,814.17	4 1/2	4,463.63	4 1/2	4,102.46	4 1/2	3,741.19	4 1/2	3,379.91	4 1/2	3,018.64	4 1/2	2,657.37	4 1/2	2,295.98
4 3/4	4 3/4	4 3/4	5,138.41	4 3/4	4,807.07	4 3/4	4,456.15	4 3/4	4,094.93	4 3/4	3,733.66	4 3/4	3,372.39	4 3/4	3,011.12	4 3/4	2,649.84	4 3/4	2,288.45
5	5	5	5,131.73	5	4,799.95	5	4,448.63	5	4,087.41	5	3,726.13	5	3,364.86	5	3,003.59	5	2,642.32	5	2,280.92
5 1/4	5 1/4	5 1/4	5,125.04	5 1/4	4,792.82	5 1/4	4,441.12	5 1/4	4,079.88	5 1/4	3,718.61	5 1/4	3,357.34	5 1/4	2,996.06	5 1/4	2,634.79	5 1/4	2,273.39
5 1/2	5 1/2	5 1/2	5,118.35	5 1/2	4,785.70	5 1/2	4,433.61	5 1/2	4,072.35	5 1/2	3,711.08	5 1/2	3,349.81	5 1/2	2,988.54	5 1/2	2,627.26	5 1/2	2,265.87
5 3/4	5 3/4	5 3/4	5,111.66	5 3/4	4,778.57	5 3/4	4,426.10	5 3/4	4,064.83	5 3/4	3,703.55	5 3/4	3,342.28	5 3/4	2,981.01	5 3/4	2,619.74	5 3/4	2,258.34
6	6	6	5,104.93	6	4,771.42	6	4,418.57	6	4,057.30	6	3,696.03	6	3,334.76	6	2,973.48	6	2,612.21	6	2,250.81
6 1/4	6 1/4	6 1/4	5,098.20	6 1/4	4,764.26	6 1/4	4,411.05	6 1/4	4,049.77	6 1/4	3,688.50	6 1/4	3,327.23	6 1/4	2,965.96	6 1/4	2,604.68	6 1/4	2,243.28
6 1/2	6 1/2	6 1/2	5,091.47	6 1/2	4,757.11	6 1/2	4,403.52	6 1/2	4,042.25	6 1/2	3,680.97	6 1/2	3,319.70	6 1/2	2,958.43	6 1/2	2,597.15	6 1/2	2,235.75
6 3/4	6 3/4	6 3/4	5,084.75	6 3/4	4,749.95	6 3/4	4,395.99	6 3/4	4,034.72	6 3/4	3,673.45	6 3/4	3,312.18	6 3/4	2,950.90	6 3/4	2,589.62	6 3/4	2,228.22
7	7	7	5,077.99	7	4,742.77	7	4,388.47	7	4,027.19	7	3,665.92	7	3,304.65	7	2,943.38	7	2,582.09	7	2,220.69
7 1/4	7 1/4	7 1/4	5,071.23	7 1/4	4,735.58	7 1/4	4,380.94	7 1/4	4,019.67	7 1/4	3,658.40	7 1/4	3,297.12	7 1/4	2,935.85	7 1/4	2,574.56	7 1/4	2,213.16
7 1/2	7 1/2	7 1/2	5,064.47	7 1/2	4,728.40	7 1/2	4,373.41	7 1/2	4,012.14	7 1/2	3,650.87	7 1/2	3,289.60	7 1/2	2,928.32	7 1/2	2,567.03	7 1/2	2,205.63
7 3/4	7 3/4	7 3/4	5,057.71	7 3/4	4,721.21	7 3/4	4,365.89	7 3/4	4,004.61	7 3/4	3,643.34	7 3/4	3,282.07	7 3/4	2,920.80	7 3/4	2,559.50	7 3/4	2,198.10
8	8	8	5,050.92	8	4,713.97	8	4,358.36	8	3,997.09	8	3,635.82	8	3,274.54	8	2,913.27	8	2,551.98	8	2,190.57
8 1/4	8 1/4	8 1/4	5,044.13	8 1/4	4,706.72	8 1/4	4,350.83	8 1/4	3,989.56	8 1/4	3,628.29	8 1/4	3,267.02	8 1/4	2,905.75	8 1/4	2,544.45	8 1/4	2,183.04
8 1/2	8 1/2	8 1/2	5,037.34	8 1/2	4,699.48	8 1/2	4,343.31	8 1/2	3,982.03	8 1/2	3,620.76	8 1/2	3,259.49	8 1/2	2,898.22	8 1/2	2,536.92	8 1/2	2,175.52
8 3/4	8 3/4	8 3/4	5,030.55	8 3/4	4,692.23	8 3/4	4,335.78	8 3/4	3,974.51	8 3/4	3,613.24	8 3/4	3,251.96	8 3/4	2,890.69	8 3/4	2,529.39	8 3/4	2,167.99
9	9	9	5,023.74	9	4,684.96	9	4,328.25	9	3,966.98	9	3,605.71	9	3,244.44	9	2,883.17	9	2,521.86	9	2,160.46
9 1/4	9 1/4	9 1/4	5,016.92	9 1/4	4,677.69	9 1/4	4,320.73	9 1/4	3,959.46	9 1/4	3,598.18	9 1/4	3,236.91	9 1/4	2,875.64	9 1/4	2,514.33	9 1/4	2,152.93
9 1/2	9 1/2	9 1/2	5,010.10	9 1/2	4,670.41	9 1/2	4,313.20	9 1/2	3,951.93	9 1/2	3,590.66	9 1/2	3,229.38	9 1/2	2,868.11	9 1/2	2,506.80	9 1/2	2,145.40
9 3/4	9 3/4	9 3/4	5,003.28	9 3/4	4,663.14	9 3/4	4,305.67	9 3/4	3,944.40	9 3/4	3,583.13	9 3/4	3,221.86	9 3/4	2,860.59	9 3/4	2,499.27	9 3/4	2,137.87
10	10	10	4,996.36	10	4,655.84	10	4,298.15	10	3,936.88	10	3,575.60	10	3,214.33	10	2,853.06	10	2,491.74	10	2,130.34
10 1/4	10 1/4	10 1/4	4,989.44	10 1/4	4,648.53	10 1/4	4,290.62	10 1/4	3,929.35	10 1/4	3,568.08	10 1/4	3,206.81	10 1/4	2,845.53	10 1/4	2,484.21	10 1/4	2,122.81
10 1/2	10 1/2	10 1/2	4,982.52	10 1/2	4,641.23	10 1/2	4,283.09	10 1/2	3,921.82	10 1/2	3,560.55	10 1/2	3,199.28	10 1/2	2,838.01	10 1/2	2,476.68	10 1/2	2,115.28
10 3/4	10 3/4	10 3/4	4,975.60	10 3/4	4,633.93	10 3/4	4,275.57	10 3/4	3,914.30	10 3/4	3,553.02	10 3/4	3,191.75	10 3/4	2,830.48	10 3/4	2,469.15	10 3/4	2,107.75
11	11	11	4,968.65	11	4,626.59	11	4,268.04	11	3,906.77	11	3,545.50	11	3,184.23	11	2,822.95	11	2,461.62	11	2,100.22
11 1/4	11 1/4	11 1/4	4,961.70	11 1/4	4,619.26	11 1/4	4,260.52	11 1/4	3,899.24	11 1/4	3,537.97	11 1/4	3,176.70	11 1/4	2,815.43	11 1/4	2,454.10	11 1/4	2,092.69
11 1/2	11 1/2	11 1/2	4,954.75	11 1/2	4,611.93	11 1/2	4,252.99	11 1/2	3,891.72	11 1/2	3,530.44	11 1/2	3,169.17	11 1/2	2,807.90	11 1/2	2,446.57	11 1/2	2,085.16
11 3/4	11 3/4	11 3/4	4,947.80	11 3/4	4,604.59	11 3/4	4,245.46	11 3/4	3,884.19	11 3/4	3,522.92	11 3/4	3,161.65	11 3/4	2,800.37	11 3/4	2,439.04	11 3/4	2,077.64

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH NPMs 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'-09" OFF CENTERLINE AND 42'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT

& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

http://www.pmacorp.net



BARGE "HSM 1002"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 3/4"

N	10 FT.	N	11 FT.	N	12 FT.	N	13 FT.	N	14 FT.	N	15 FT.	N	16 FT.	N	17 FT.	N	18 FT.	N	19 FT.
0	2,070.11	0	1,708.70	0	1,347.30	0	986.31	0	625.00	0	263.61	0		0		0		0	
1/4	2,062.58	1/4	1,701.18	1/4	1,339.77	1/4	978.79	1/4	617.47	1/4	256.08	1/4		1/4		1/4		1/4	
1/2	2,055.05	1/2	1,693.65	1/2	1,332.24	1/2	971.27	1/2	609.94	1/2	248.55	1/2		1/2		1/2		1/2	
3/4	2,047.52	3/4	1,686.12	3/4	1,324.72	3/4	963.76	3/4	602.41	3/4	241.02	3/4		3/4		3/4		3/4	
1	2,039.99	1	1,678.59	1	1,317.19	1	956.24	1	594.88	1	233.49	1		1		1		1	
1 1/4	2,032.46	1 1/4	1,671.06	1 1/4	1,309.66	1 1/4	948.72	1 1/4	587.36	1 1/4	225.96	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	2,024.93	1 1/2	1,663.53	1 1/2	1,302.13	1 1/2	941.21	1 1/2	579.83	1 1/2	218.43	1 1/2		1 1/2		1 1/2		1 1/2	
1 3/4	2,017.40	1 3/4	1,656.00	1 3/4	1,294.60	1 3/4	933.69	1 3/4	572.30	1 3/4	210.91	1 3/4		1 3/4		1 3/4		1 3/4	
2	2,009.87	2	1,648.47	2	1,287.07	2	926.16	2	564.77	2	203.38	2		2		2		2	
2 1/4	2,002.34	2 1/4	1,640.94	2 1/4	1,279.54	2 1/4	918.63	2 1/4	557.24	2 1/4	195.85	2 1/4		2 1/4		2 1/4		2 1/4	
2 1/2	1,994.81	2 1/2	1,633.41	2 1/2	1,272.01	2 1/2	911.10	2 1/2	549.71	2 1/2	188.32	2 1/2		2 1/2		2 1/2		2 1/2	
2 3/4	1,987.29	2 3/4	1,625.88	2 3/4	1,264.48	2 3/4	903.57	2 3/4	542.18	2 3/4	180.79	2 3/4		2 3/4		2 3/4		2 3/4	
3	1,979.76	3	1,618.35	3	1,256.95	3	896.04	3	534.65	3	173.26	3		3		3		3	
3 1/4	1,972.23	3 1/4	1,610.83	3 1/4	1,249.42	3 1/4	888.52	3 1/4	527.12	3 1/4	165.73	3 1/4		3 1/4		3 1/4		3 1/4	
3 1/2	1,964.70	3 1/2	1,603.30	3 1/2	1,241.89	3 1/2	880.99	3 1/2	519.59	3 1/2	158.21	3 1/2		3 1/2		3 1/2		3 1/2	
3 3/4	1,957.17	3 3/4	1,595.77	3 3/4	1,234.37	3 3/4	873.46	3 3/4	512.07	3 3/4	150.68	3 3/4		3 3/4		3 3/4		3 3/4	
4	1,949.64	4	1,588.24	4	1,226.85	4	865.93	4	504.54	4	143.16	4		4		4		4	
4 1/4	1,942.11	4 1/4	1,580.71	4 1/4	1,219.33	4 1/4	858.40	4 1/4	497.01	4 1/4	135.64	4 1/4		4 1/4		4 1/4		4 1/4	
4 1/2	1,934.58	4 1/2	1,573.18	4 1/2	1,211.81	4 1/2	850.87	4 1/2	489.48	4 1/2	128.12	4 1/2		4 1/2		4 1/2		4 1/2	
4 3/4	1,927.05	4 3/4	1,565.65	4 3/4	1,204.30	4 3/4	843.34	4 3/4	481.95	4 3/4	120.60	4 3/4		4 3/4		4 3/4		4 3/4	
5	1,919.52	5	1,558.12	5	1,196.78	5	835.81	5	474.42	5	113.11	5		5		5		5	
5 1/4	1,911.99	5 1/4	1,550.59	5 1/4	1,189.26	5 1/4	828.28	5 1/4	466.89	5 1/4	105.62	5 1/4		5 1/4		5 1/4		5 1/4	
5 1/2	1,904.46	5 1/2	1,543.06	5 1/2	1,181.75	5 1/2	820.75	5 1/2	459.36	5 1/2	98.12	5 1/2		5 1/2		5 1/2		5 1/2	
5 3/4	1,896.93	5 3/4	1,535.53	5 3/4	1,174.23	5 3/4	813.23	5 3/4	451.83	5 3/4	90.63	5 3/4		5 3/4		5 3/4		5 3/4	
6	1,889.41	6	1,528.00	6	1,166.71	6	805.70	6	444.30	6	83.73	6		6		6		6	
6 1/4	1,881.88	6 1/4	1,520.47	6 1/4	1,159.20	6 1/4	798.17	6 1/4	436.78	6 1/4	76.83	6 1/4		6 1/4		6 1/4		6 1/4	
6 1/2	1,874.35	6 1/2	1,512.95	6 1/2	1,151.68	6 1/2	790.64	6 1/2	429.25	6 1/2	69.93	6 1/2		6 1/2		6 1/2		6 1/2	
6 3/4	1,866.82	6 3/4	1,505.42	6 3/4	1,144.16	6 3/4	783.11	6 3/4	421.72	6 3/4	63.03	6 3/4		6 3/4		6 3/4		6 3/4	
7	1,859.29	7	1,497.89	7	1,136.65	7	775.58	7	414.19	7	57.39	7		7		7		7	
7 1/4	1,851.76	7 1/4	1,490.36	7 1/4	1,129.13	7 1/4	768.05	7 1/4	406.66	7 1/4	51.74	7 1/4		7 1/4		7 1/4		7 1/4	
7 1/2	1,844.23	7 1/2	1,482.83	7 1/2	1,121.61	7 1/2	760.52	7 1/2	399.13	7 1/2	46.09	7 1/2		7 1/2		7 1/2		7 1/2	
7 3/4	1,836.70	7 3/4	1,475.30	7 3/4	1,114.09	7 3/4	752.99	7 3/4	391.60	7 3/4	40.45	7 3/4		7 3/4		7 3/4		7 3/4	
8	1,829.17	8	1,467.77	8	1,106.58	8	745.46	8	384.07	8	36.06	8		8		8		8	
8 1/4	1,821.64	8 1/4	1,460.24	8 1/4	1,099.06	8 1/4	737.94	8 1/4	376.54	8 1/4	31.67	8 1/4		8 1/4		8 1/4		8 1/4	
8 1/2	1,814.11	8 1/2	1,452.71	8 1/2	1,091.54	8 1/2	730.41	8 1/2	369.01	8 1/2	27.28	8 1/2		8 1/2		8 1/2		8 1/2	
8 3/4	1,806.58	8 3/4	1,445.18	8 3/4	1,084.03	8 3/4	722.88	8 3/4	361.49	8 3/4	22.89	8 3/4		8 3/4		8 3/4		8 3/4	
9	1,799.06	9	1,437.65	9	1,076.51	9	715.35	9	353.96	9		9		9		9		9	
9 1/4	1,791.53	9 1/4	1,430.12	9 1/4	1,068.99	9 1/4	707.82	9 1/4	346.43	9 1/4		9 1/4		9 1/4		9 1/4		9 1/4	
9 1/2	1,784.00	9 1/2	1,422.60	9 1/2	1,061.48	9 1/2	700.29	9 1/2	338.90	9 1/2		9 1/2		9 1/2		9 1/2		9 1/2	
9 3/4	1,776.47	9 3/4	1,415.07	9 3/4	1,053.96	9 3/4	692.76	9 3/4	331.37	9 3/4		9 3/4		9 3/4		9 3/4		9 3/4	
10	1,768.94	10	1,407.54	10	1,046.44	10	685.23	10	323.84	10		10		10		10		10	
10 1/4	1,761.41	10 1/4	1,400.01	10 1/4	1,038.93	10 1/4	677.70	10 1/4	316.31	10 1/4		10 1/4		10 1/4		10 1/4		10 1/4	
10 1/2	1,753.88	10 1/2	1,392.48	10 1/2	1,031.41	10 1/2	670.17	10 1/2	308.78	10 1/2		10 1/2		10 1/2		10 1/2		10 1/2	
10 3/4	1,746.35	10 3/4	1,384.95	10 3/4	1,023.89	10 3/4	662.65	10 3/4	301.25	10 3/4		10 3/4		10 3/4		10 3/4		10 3/4	
11	1,738.82	11	1,377.42	11	1,016.38	11	655.12	11	293.72	11		11		11		11		11	
11 1/4	1,731.29	11 1/4	1,369.89	11 1/4	1,008.86	11 1/4	647.59	11 1/4	286.20	11 1/4		11 1/4		11 1/4		11 1/4		11 1/4	
11 1/2	1,723.76	11 1/2	1,362.36	11 1/2	1,001.34	11 1/2	640.06	11 1/2	278.67	11 1/2		11 1/2		11 1/2		11 1/2		11 1/2	
11 3/4	1,716.23	11 3/4	1,354.83	11 3/4	993.82	11 3/4	632.53	11 3/4	271.14	11 3/4		11 3/4		11 3/4		11 3/4		11 3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/31/2013 CL
CALCULATED: 11/01/2013 CL
PRINTED: 11/02/2013 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2013

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



BARGE "HSM 1002"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS																			
	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				4,924.94	0	4,581.35	0	4,222.07	0	3,860.80	0	3,499.52	0	3,138.25	0	2,776.98	0	2,415.64
1	1.4	1.4		1.4	4,917.97	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
2	2.8	2.8	2.8	2.8	4,910.99	2.8	4,566.62	2.8	4,207.01	2.8	3,845.74	2.8	3,484.47	2.8	3,123.20	2.8	2,761.93	2.8	2,400.58
3	3.4	3.4	5,212.57	3.4	4,904.01	3.4	4,559.26	3.4	4,199.49	3.4	3,838.22	3.4	3,476.94	3.4	3,115.67	3.4	2,754.40	3.4	2,393.05
4	4	4	5,208.25	4	4,897.01	4	4,551.87	4	4,191.96	4	3,830.69	4	3,469.42	4	3,108.15	4	2,746.87	4	2,385.52
5	5.4	5.4	5,203.93	5.4	4,890.00	5.4	4,544.47	5.4	4,184.43	5.4	3,823.16	5.4	3,461.89	5.4	3,100.62	5.4	2,739.35	5.4	2,377.99
6	6.8	6.8	5,199.61	6.8	4,882.99	6.8	4,537.08	6.8	4,176.91	6.8	3,815.64	6.8	3,454.36	6.8	3,093.09	6.8	2,731.82	6.8	2,370.46
7	7.4	7.4	5,195.29	7.4	4,875.99	7.4	4,529.69	7.4	4,169.38	7.4	3,808.11	7.4	3,446.84	7.4	3,085.57	7.4	2,724.29	7.4	2,362.93
8	8.8	8.8	5,189.75	8.8	4,868.95	8.8	4,522.27	8.8	4,161.86	8.8	3,800.58	8.8	3,439.31	8.8	3,078.04	8.8	2,716.77	8.8	2,355.40
9	9.4	9.4	5,184.20	9.4	4,861.91	9.4	4,514.84	9.4	4,154.33	9.4	3,793.06	9.4	3,431.78	9.4	3,070.51	9.4	2,709.24	9.4	2,347.87
10	10.4	10.4	5,178.66	10.4	4,854.88	10.4	4,507.42	10.4	4,146.80	10.4	3,785.53	10.4	3,424.26	10.4	3,062.99	10.4	2,701.71	10.4	2,340.34
11	11.4	11.4	5,173.11	11.4	4,847.84	11.4	4,500.00	11.4	4,139.28	11.4	3,778.00	11.4	3,416.73	11.4	3,055.46	11.4	2,694.19	11.4	2,332.81
12	12.4	12.4	5,167.10	12.4	4,840.77	12.4	4,492.55	12.4	4,131.75	12.4	3,770.48	12.4	3,409.21	12.4	3,047.93	12.4	2,686.66	12.4	2,325.29
13	13.4	13.4	5,161.09	13.4	4,833.71	13.4	4,485.09	13.4	4,124.22	13.4	3,762.95	13.4	3,401.68	13.4	3,040.41	13.4	2,679.13	13.4	2,317.76
14	14.4	14.4	5,155.08	14.4	4,826.64	14.4	4,477.64	14.4	4,116.70	14.4	3,755.42	14.4	3,394.15	14.4	3,032.88	14.4	2,671.61	14.4	2,310.23
15	15.4	15.4	5,149.07	15.4	4,819.57	15.4	4,470.19	15.4	4,109.17	15.4	3,747.90	15.4	3,386.63	15.4	3,025.35	15.4	2,664.08	15.4	2,302.70
16	16.4	16.4	5,142.44	16.4	4,812.48	16.4	4,462.71	16.4	4,101.64	16.4	3,740.37	16.4	3,379.10	16.4	3,017.83	16.4	2,656.56	16.4	2,295.17
17	17.4	17.4	5,135.80	17.4	4,805.38	17.4	4,455.23	17.4	4,094.12	17.4	3,732.84	17.4	3,371.57	17.4	3,010.30	17.4	2,649.03	17.4	2,287.64
18	18.4	18.4	5,129.17	18.4	4,798.29	18.4	4,447.74	18.4	4,086.59	18.4	3,725.32	18.4	3,364.05	18.4	3,002.77	18.4	2,641.50	18.4	2,280.11
19	19.4	19.4	5,122.53	19.4	4,791.19	19.4	4,440.26	19.4	4,079.06	19.4	3,717.79	19.4	3,356.52	19.4	2,995.25	19.4	2,633.98	19.4	2,272.58
20	20.4	20.4	5,115.84	20.4	4,784.07	20.4	4,432.75	20.4	4,071.54	20.4	3,710.27	20.4	3,348.99	20.4	2,987.72	20.4	2,626.45	20.4	2,265.05
21	21.4	21.4	5,109.15	21.4	4,776.94	21.4	4,425.25	21.4	4,064.01	21.4	3,702.74	21.4	3,341.47	21.4	2,980.19	21.4	2,618.92	21.4	2,257.52
22	22.4	22.4	5,102.47	22.4	4,769.81	22.4	4,417.74	22.4	4,056.48	22.4	3,695.21	22.4	3,333.94	22.4	2,972.67	22.4	2,611.40	22.4	2,249.99
23	23.4	23.4	5,095.78	23.4	4,762.69	23.4	4,410.23	23.4	4,048.96	23.4	3,687.69	23.4	3,326.41	23.4	2,965.14	23.4	2,603.87	23.4	2,242.46
24	24.4	24.4	5,089.05	24.4	4,755.53	24.4	4,402.70	24.4	4,041.43	24.4	3,680.16	24.4	3,318.89	24.4	2,957.62	24.4	2,596.34	24.4	2,234.93
25	25.4	25.4	5,082.32	25.4	4,748.38	25.4	4,395.18	25.4	4,033.90	25.4	3,672.63	25.4	3,311.36	25.4	2,950.09	25.4	2,588.81	25.4	2,227.40
26	26.4	26.4	5,075.59	26.4	4,741.22	26.4	4,387.65	26.4	4,026.38	26.4	3,665.11	26.4	3,303.83	26.4	2,942.56	26.4	2,581.28	26.4	2,219.88
27	27.4	27.4	5,068.86	27.4	4,734.07	27.4	4,380.12	27.4	4,018.85	27.4	3,657.58	27.4	3,296.31	27.4	2,935.04	27.4	2,573.75	27.4	2,212.35
28	28.4	28.4	5,062.10	28.4	4,726.88	28.4	4,372.60	28.4	4,011.33	28.4	3,650.05	28.4	3,288.78	28.4	2,927.51	28.4	2,566.22	28.4	2,204.82
29	29.4	29.4	5,055.35	29.4	4,719.70	29.4	4,365.07	29.4	4,003.80	29.4	3,642.53	29.4	3,281.25	29.4	2,919.98	29.4	2,558.69	29.4	2,197.29
30	30.4	30.4	5,048.59	30.4	4,712.51	30.4	4,357.54	30.4	3,996.27	30.4	3,635.00	30.4	3,273.73	30.4	2,912.46	30.4	2,551.16	30.4	2,189.76
31	31.4	31.4	5,041.83	31.4	4,705.33	31.4	4,350.02	31.4	3,988.75	31.4	3,627.47	31.4	3,266.20	31.4	2,904.93	31.4	2,543.64	31.4	2,182.23
32	32.4	32.4	5,035.04	32.4	4,698.08	32.4	4,342.49	32.4	3,981.22	32.4	3,619.95	32.4	3,258.68	32.4	2,897.40	32.4	2,536.11	32.4	2,174.70
33	33.4	33.4	5,028.25	33.4	4,690.84	33.4	4,334.96	33.4	3,973.69	33.4	3,612.42	33.4	3,251.15	33.4	2,889.88	33.4	2,528.58	33.4	2,167.17
34	34.4	34.4	5,021.46	34.4	4,683.59	34.4	4,327.44	34.4	3,966.17	34.4	3,604.89	34.4	3,243.62	34.4	2,882.35	34.4	2,521.05	34.4	2,159.64
35	35.4	35.4	5,014.67	35.4	4,676.35	35.4	4,319.91	35.4	3,958.64	35.4	3,597.37	35.4	3,236.10	35.4	2,874.82	35.4	2,513.52	35.4	2,152.11
36	36.4	36.4	5,007.85	36.4	4,669.08	36.4	4,312.39	36.4	3,951.11	36.4	3,589.84	36.4	3,228.57	36.4	2,867.30	36.4	2,505.99	36.4	2,144.58
37	37.4	37.4	5,001.03	37.4	4,661.80	37.4	4,304.86	37.4	3,943.59	37.4	3,582.31	37.4	3,221.04	37.4	2,859.77	37.4	2,498.46	37.4	2,137.05
38	38.4	38.4	4,994.22	38.4	4,654.53	38.4	4,297.33	38.4	3,936.06	38.4	3,574.79	38.4	3,213.52	38.4	2,852.24	38.4	2,490.93	38.4	2,129.52
39	39.4	39.4	4,987.40	39.4	4,647.26	39.4	4,289.81	39.4	3,928.53	39.4	3,567.26	39.4	3,205.99	39.4	2,844.72	39.4	2,483.40	39.4	2,121.99
40	40.4	40.4	4,980.48	40.4	4,639.95	40.4	4,282.28	40.4	3,921.01	40.4	3,559.74	40.4	3,198.46	40.4	2,837.19	40.4	2,475.87	40.4	2,114.47
41	41.4	41.4	4,973.56	41.4	4,632.65	41.4	4,274.75	41.4	3,913.48	41.4	3,552.21	41.4	3,190.94	41.4	2,829.66	41.4	2,468.34	41.4	2,106.94
42	42.4	42.4	4,966.64	42.4	4,625.35	42.4	4,267.23	42.4	3,905.95	42.4	3,544.68	42.4	3,183.41	42.4	2,822.14	42.4	2,460.81	42.4	2,099.41
43	43.4	43.4	4,959.72	43.4	4,618.04	43.4	4,259.70	43.4	3,898.43	43.4	3,537.16	43.4	3,175.88	43.4	2,814.61	43.4	2,453.28	43.4	2,091.88
44	44.4	44.4	4,952.77	44.4	4,610.71	44.4	4,252.17	44.4	3,890.90	44.4	3,529.63	44.4	3,168.36	44.4	2,807.09	44.4	2,445.75	44.4	2,084.35
45	45.4	45.4	4,945.82	45.4	4,603.38	45.4	4,244.65	45.4	3,883.37	45.4	3,522.10	45.4	3,160.83	45.4	2,799.56	45.4	2,438.23	45.4	2,076.82
46	46.4	46.4	4,938.87	46.4	4,596.04	46.4	4,237.12	46.4	3,875.85	46.4	3,514.58	46.4	3,153.30	46.4	2,792.03	46.4	2,430.70	46.4	2,069.29
47	47.4	47.4	4,931.92	47.4	4,588.71	47.4	4,229.59	47.4	3,868.32	47.4	3,507.05	47.4	3,145.78	47.4	2,784.51	47.4	2,423.17	47.4	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'-09" OFF CENTERLINE AND 42'-00" FORWARD OF AFT BULKHEAD.

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



BARGE "HSM 1002"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 3/4"

N	10 FT.	N	11 FT.	N	12 FT.	N	13 FT.	N	14 FT.	N	15 FT.	N	16 FT.	N	17 FT.	N	18 FT.	N	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	1,685.30	1/4	1,323.89	1/4	975.48	1/4	617.47	1/4	258.08	1/4		1/4		1/4		1/4	
1/2	2,039.17	1/2	1,677.77	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	961.11	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	594.89	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	587.36	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	218.44	1 1/2		1 1/2		1 1/2		1 1/2	
1 3/4	2,001.53	1 3/4	1,640.12	1 3/4	1,278.71	1 3/4	932.36	1 3/4	572.30	1 3/4	210.91	1 3/4		1 3/4		1 3/4		1 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	
2 1/4	1,986.47	2 1/4	1,625.06	2 1/4	1,263.65	2 1/4	917.97	2 1/4	557.24	2 1/4	195.85	2 1/4		2 1/4		2 1/4		2 1/4	
2 1/2	1,978.94	2 1/2	1,617.53	2 1/2	1,256.12	2 1/2	910.77	2 1/2	549.71	2 1/2	188.32	2 1/2		2 1/2		2 1/2		2 1/2	
2 3/4	1,971.41	2 3/4	1,610.00	2 3/4	1,248.60	2 3/4	903.57	2 3/4	542.18	2 3/4	180.79	2 3/4		2 3/4		2 3/4		2 3/4	
3	1,963.88	3	1,602.47	3	1,241.40	3	896.05	3	534.65	3	173.26	3		3		3		3	
3 1/4	1,956.35	3 1/4	1,594.94	3 1/4	1,234.20	3 1/4	888.52	3 1/4	527.12	3 1/4	165.73	3 1/4		3 1/4		3 1/4		3 1/4	
3 1/2	1,948.82	3 1/2	1,587.41	3 1/2	1,227.00	3 1/2	880.99	3 1/2	519.60	3 1/2	158.21	3 1/2		3 1/2		3 1/2		3 1/2	
3 3/4	1,941.29	3 3/4	1,579.88	3 3/4	1,219.80	3 3/4	873.46	3 3/4	512.07	3 3/4	150.68	3 3/4		3 3/4		3 3/4		3 3/4	
4	1,933.76	4	1,572.36	4	1,212.62	4	865.93	4	504.54	4	143.16	4		4		4		4	
4 1/4	1,926.23	4 1/4	1,564.83	4 1/4	1,205.43	4 1/4	858.40	4 1/4	497.01	4 1/4	135.64	4 1/4		4 1/4		4 1/4		4 1/4	
4 1/2	1,918.70	4 1/2	1,557.30	4 1/2	1,198.24	4 1/2	850.87	4 1/2	489.48	4 1/2	128.12	4 1/2		4 1/2		4 1/2		4 1/2	
4 3/4	1,911.17	4 3/4	1,549.77	4 3/4	1,191.06	4 3/4	843.34	4 3/4	481.95	4 3/4	120.60	4 3/4		4 3/4		4 3/4		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	
5 1/4	1,896.12	5 1/4	1,534.71	5 1/4	1,176.69	5 1/4	828.28	5 1/4	466.89	5 1/4	105.62	5 1/4		5 1/4		5 1/4		5 1/4	
5 1/2	1,888.59	5 1/2	1,527.18	5 1/2	1,169.50	5 1/2	820.76	5 1/2	459.36	5 1/2	98.12	5 1/2		5 1/2		5 1/2		5 1/2	
5 3/4	1,881.06	5 3/4	1,519.65	5 3/4	1,162.31	5 3/4	813.23	5 3/4	451.83	5 3/4	90.63	5 3/4		5 3/4		5 3/4		5 3/4	
6	1,873.53	6	1,512.12	6	1,155.13	6	805.70	6	444.31	6	83.73	6		6		6		6	
6 1/4	1,866.00	6 1/4	1,504.59	6 1/4	1,147.94	6 1/4	798.17	6 1/4	436.78	6 1/4	76.83	6 1/4		6 1/4		6 1/4		6 1/4	
6 1/2	1,858.47	6 1/2	1,497.06	6 1/2	1,140.76	6 1/2	790.64	6 1/2	429.25	6 1/2	69.93	6 1/2		6 1/2		6 1/2		6 1/2	
6 3/4	1,850.94	6 3/4	1,489.53	6 3/4	1,133.57	6 3/4	783.11	6 3/4	421.72	6 3/4	63.03	6 3/4		6 3/4		6 3/4		6 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	
7 1/4	1,835.88	7 1/4	1,474.47	7 1/4	1,119.20	7 1/4	768.05	7 1/4	406.66	7 1/4	51.74	7 1/4		7 1/4		7 1/4		7 1/4	
7 1/2	1,828.35	7 1/2	1,466.95	7 1/2	1,112.01	7 1/2	760.52	7 1/2	399.13	7 1/2	46.10	7 1/2		7 1/2		7 1/2		7 1/2	
7 3/4	1,820.82	7 3/4	1,459.42	7 3/4	1,104.83	7 3/4	752.99	7 3/4	391.60	7 3/4	40.45	7 3/4		7 3/4		7 3/4		7 3/4	
8	1,813.29	8	1,451.89	8	1,097.64	8	745.47	8	384.07	8	36.06	8		8		8		8	
8 1/4	1,805.76	8 1/4	1,444.36	8 1/4	1,090.45	8 1/4	737.94	8 1/4	376.54	8 1/4	31.67	8 1/4		8 1/4		8 1/4		8 1/4	
8 1/2	1,798.23	8 1/2	1,436.83	8 1/2	1,083.27	8 1/2	730.41	8 1/2	369.02	8 1/2	27.28	8 1/2		8 1/2		8 1/2		8 1/2	
8 3/4	1,790.71	8 3/4	1,429.30	8 3/4	1,076.08	8 3/4	722.88	8 3/4	361.49	8 3/4	22.89	8 3/4		8 3/4		8 3/4		8 3/4	
9	1,783.18	9	1,421.77	9	1,068.90	9	715.35	9	353.96	9		9		9		9		9	
9 1/4	1,775.65	9 1/4	1,414.24	9 1/4	1,061.71	9 1/4	707.82	9 1/4	346.43	9 1/4		9 1/4		9 1/4		9 1/4		9 1/4	
9 1/2	1,768.12	9 1/2	1,406.71	9 1/2	1,054.52	9 1/2	700.29	9 1/2	338.90	9 1/2		9 1/2		9 1/2		9 1/2		9 1/2	
9 3/4	1,760.59	9 3/4	1,399.18	9 3/4	1,047.34	9 3/4	692.76	9 3/4	331.37	9 3/4		9 3/4		9 3/4		9 3/4		9 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	
10 1/4	1,745.53	10 1/4	1,384.12	10 1/4	1,032.97	10 1/4	677.70	10 1/4	316.31	10 1/4		10 1/4		10 1/4		10 1/4		10 1/4	
10 1/2	1,738.00	10 1/2	1,376.59	10 1/2	1,025.78	10 1/2	670.18	10 1/2	308.78	10 1/2		10 1/2		10 1/2		10 1/2		10 1/2	
10 3/4	1,730.47	10 3/4	1,369.06	10 3/4	1,018.59	10 3/4	662.65	10 3/4	301.25	10 3/4		10 3/4		10 3/4		10 3/4		10 3/4	
11	1,722.94	11	1,361.54	11	1,011.41	11	655.12	11	293.73	11		11		11		11		11	
11 1/4	1,715.41	11 1/4	1,354.01	11 1/4	1,004.22	11 1/4	647.59	11 1/4	286.20	11 1/4		11 1/4		11 1/4		11 1/4		11 1/4	
11 1/2	1,707.88	11 1/2	1,346.48	11 1/2	997.04	11 1/2	640.06	11 1/2	278.67	11 1/2		11 1/2		11 1/2		11 1/2		11 1/2	
11 3/4	1,700.35	11 3/4	1,338.95	11 3/4	989.85	11 3/4	632.53	11 3/4	271.14	11 3/4		11 3/4		11 3/4		11 3/4		11 3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/31/2013 CL
CALCULATED: 11/01/2013 CL
PRINTED: 11/02/2013 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2013

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77580
<http://www.pmacorp.net>



BARGE "HSM 1002"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08 1/2"

N	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
12	12	12	4,409.40	12	4,254.54	12	4,069.78	12	3,877.02	12	3,683.47	12	3,478.18	12	3,118.21	12	2,758.98	12	2,399.16
34	34	34	4,408.53	34	4,250.78	34	4,065.82	34	3,872.99	34	3,679.43	34	3,468.72	34	3,110.73	34	2,751.49	34	2,391.66
1	1	1	4,407.66	1	4,247.03	1	4,061.86	1	3,868.96	1	3,675.40	1	3,461.26	1	3,103.24	1	2,743.99	1	2,384.16
14	14	14	4,406.79	14	4,243.27	14	4,057.90	14	3,864.92	14	3,671.37	14	3,453.79	14	3,095.76	14	2,736.50	14	2,376.67
12	12	12	4,405.92	12	4,239.52	12	4,053.94	12	3,860.89	12	3,667.34	12	3,448.33	12	3,088.28	12	2,729.00	12	2,369.17
34	34	34	4,403.82	34	4,235.74	34	4,049.98	34	3,856.86	34	3,663.30	34	3,438.86	34	3,080.80	34	2,721.50	34	2,361.67
2	2	2	4,401.71	2	4,231.97	2	4,045.98	2	3,852.83	2	3,659.27	2	3,431.40	2	3,073.31	2	2,714.01	2	2,354.18
14	14	14	4,399.60	14	4,228.20	14	4,042.01	14	3,848.79	14	3,655.24	14	3,423.93	14	3,065.83	14	2,706.51	14	2,346.68
12	12	12	4,397.50	12	4,224.43	12	4,038.03	12	3,844.76	12	3,651.21	12	3,416.47	12	3,058.35	12	2,699.02	12	2,339.18
34	34	34	4,394.57	34	4,220.64	34	4,034.04	34	3,840.73	34	3,647.17	34	3,409.01	34	3,050.86	34	2,691.52	34	2,331.69
3	3	3	4,391.63	3	4,216.85	3	4,030.04	3	3,836.70	3	3,643.14	3	3,401.54	3	3,043.38	3	2,684.03	3	2,324.19
14	14	14	4,388.70	14	4,213.07	14	4,026.05	14	3,832.66	14	3,639.11	14	3,394.08	14	3,035.90	14	2,676.53	14	2,316.69
12	12	12	4,385.77	12	4,209.28	12	4,022.06	12	3,828.63	12	3,635.08	12	3,386.61	12	3,028.42	12	2,669.04	12	2,309.20
34	34	34	4,382.23	34	4,205.48	34	4,018.05	34	3,824.60	34	3,631.04	34	3,379.15	34	3,020.93	34	2,661.54	34	2,301.70
4	4	4	4,378.69	4	4,201.67	4	4,014.04	4	3,820.57	4	3,627.01	4	3,371.69	4	3,013.45	4	2,654.04	4	2,294.20
14	14	14	4,375.15	14	4,197.87	14	4,010.03	14	3,816.53	14	3,622.98	14	3,364.22	14	3,005.97	14	2,646.55	14	2,286.70
12	12	12	4,371.62	12	4,194.07	12	4,006.03	12	3,812.50	12	3,618.95	12	3,356.76	12	2,998.49	12	2,639.05	12	2,279.21
34	34	34	4,368.04	34	4,190.25	34	4,002.00	34	3,808.47	34	3,614.91	34	3,349.29	34	2,991.00	34	2,631.56	34	2,271.71
5	5	5	4,364.46	5	4,186.43	5	3,997.98	5	3,804.44	5	3,610.88	5	3,341.83	5	2,983.52	5	2,624.06	5	2,264.21
14	14	14	4,360.88	14	4,182.61	14	3,993.95	14	3,800.41	14	3,606.85	14	3,334.37	14	2,976.04	14	2,616.57	14	2,256.72
12	12	12	4,357.30	12	4,178.79	12	3,989.93	12	3,796.37	12	3,602.82	12	3,326.90	12	2,968.58	12	2,609.07	12	2,249.22
34	34	34	4,353.69	34	4,174.95	34	3,985.90	34	3,792.34	34	3,598.79	34	3,319.45	34	2,961.07	34	2,601.57	34	2,241.72
6	6	6	4,350.09	6	4,171.12	6	3,981.86	6	3,788.31	6	3,594.75	6	3,312.00	6	2,953.59	6	2,594.08	6	2,234.23
14	14	14	4,346.48	14	4,167.28	14	3,977.83	14	3,784.28	14	3,590.72	14	3,304.56	14	2,946.11	14	2,586.58	14	2,226.73
12	12	12	4,342.88	12	4,163.45	12	3,973.80	12	3,780.24	12	3,586.69	12	3,297.11	12	2,938.62	12	2,579.08	12	2,219.23
34	34	34	4,339.26	34	4,159.60	34	3,969.77	34	3,776.21	34	3,582.66	34	3,289.66	34	2,931.14	34	2,571.59	34	2,211.74
7	7	7	4,335.63	7	4,155.75	7	3,965.73	7	3,772.18	7	3,578.62	7	3,282.21	7	2,923.68	7	2,564.09	7	2,204.24
14	14	14	4,332.01	14	4,151.90	14	3,961.70	14	3,768.15	14	3,574.59	14	3,274.76	14	2,916.18	14	2,556.59	14	2,196.74
12	12	12	4,328.39	12	4,148.05	12	3,957.67	12	3,764.11	12	3,570.56	12	3,267.31	12	2,908.69	12	2,549.10	12	2,189.25
34	34	34	4,324.75	34	4,144.16	34	3,953.64	34	3,760.08	34	3,566.53	34	3,259.87	34	2,901.21	34	2,541.60	34	2,181.75
8	8	8	4,321.11	8	4,140.28	8	3,949.60	8	3,756.05	8	3,562.49	8	3,252.42	8	2,893.73	8	2,534.10	8	2,174.25
14	14	14	4,317.48	14	4,136.40	14	3,945.57	14	3,752.02	14	3,558.46	14	3,244.97	14	2,886.25	14	2,526.61	14	2,166.75
12	12	12	4,313.84	12	4,132.52	12	3,941.54	12	3,747.98	12	3,554.43	12	3,237.52	12	2,878.76	12	2,519.11	12	2,159.26
34	34	34	4,310.19	34	4,128.62	34	3,937.51	34	3,743.95	34	3,550.40	34	3,230.07	34	2,871.28	34	2,511.61	34	2,151.76
9	9	9	4,306.53	9	4,124.72	9	3,933.47	9	3,739.92	9	3,546.36	9	3,222.62	9	2,863.80	9	2,504.11	9	2,144.26
14	14	14	4,302.88	14	4,120.83	14	3,929.44	14	3,735.89	14	3,542.33	14	3,215.18	14	2,856.31	14	2,496.62	14	2,136.77
12	12	12	4,299.22	12	4,116.93	12	3,925.41	12	3,731.85	12	3,538.30	12	3,207.73	12	2,848.83	12	2,489.12	12	2,129.27
34	34	34	4,295.52	34	4,113.02	34	3,921.38	34	3,727.82	34	3,534.27	34	3,200.28	34	2,841.35	34	2,481.62	34	2,121.77
10	10	10	4,291.81	10	4,109.10	10	3,917.34	10	3,723.79	10	3,530.23	10	3,192.83	10	2,833.87	10	2,474.13	10	2,114.28
14	14	14	4,288.10	14	4,105.19	14	3,913.31	14	3,719.76	14	3,526.20	14	3,185.38	14	2,826.38	14	2,466.63	14	2,106.78
12	12	12	4,284.39	12	4,101.28	12	3,909.28	12	3,715.72	12	3,522.17	12	3,177.93	12	2,818.90	12	2,459.13	12	2,099.28
34	34	34	4,280.67	34	4,097.35	34	3,905.25	34	3,711.69	34	3,518.14	34	3,170.49	34	2,811.42	34	2,451.64	34	2,091.79
11	11	11	4,276.94	11	4,093.42	11	3,901.22	11	3,707.66	11	3,514.10	11	3,163.04	11	2,803.94	11	2,444.14	11	2,084.29
14	14	14	4,273.22	14	4,089.49	14	3,897.18	14	3,703.63	14	3,510.07	14	3,155.59	14	2,796.45	14	2,436.64	14	2,076.79
12	12	12	4,269.50	12	4,085.56	12	3,893.15	12	3,699.60	12	3,506.04	12	3,148.14	12	2,788.97	12	2,429.15	12	2,069.29
34	34	34	4,265.76	34	4,081.62	34	3,889.12	34	3,695.56	34	3,498.58	34	3,140.66	34	2,781.47	34	2,421.65	34	2,061.80

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'-09" 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 1002"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/2"

N	10 FT.	N	11 FT.	N	12 FT.	N	13 FT.	N	14 FT.	N	15 FT.	N	16 FT.	N	17 FT.	N	18 FT.	N	19 FT.
0	2,054.30	0	1,694.37	0	1,334.44	0	974.80	0	614.96	0	255.04	0		0		0		0	
1/4	2,046.80	1/4	1,686.87	1/4	1,326.94	1/4	967.31	1/4	607.46	1/4	247.54	1/4		1/4		1/4		1/4	
1/2	2,039.31	1/2	1,679.37	1/2	1,319.44	1/2	959.82	1/2	599.96	1/2	240.04	1/2		1/2		1/2		1/2	
3/4	2,031.81	3/4	1,671.88	3/4	1,311.94	3/4	952.33	3/4	592.46	3/4	232.54	3/4		3/4		3/4		3/4	
1	2,024.31	1	1,664.38	1	1,304.44	1	944.84	1	584.96	1	225.04	1		1		1		1	
1 1/4	2,016.81	1 1/4	1,656.88	1 1/4	1,296.95	1 1/4	937.35	1 1/4	577.47	1 1/4	217.55	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	2,009.31	1 1/2	1,649.38	1 1/2	1,289.45	1 1/2	929.86	1 1/2	569.97	1 1/2	210.05	1 1/2		1 1/2		1 1/2		1 1/2	
1 3/4	2,001.81	1 3/4	1,641.88	1 3/4	1,281.95	1 3/4	922.37	1 3/4	562.47	1 3/4	202.55	1 3/4		1 3/4		1 3/4		1 3/4	
2	1,994.32	2	1,634.38	2	1,274.45	2	914.88	2	554.97	2	195.05	2		2		2		2	
2 1/4	1,986.82	2 1/4	1,626.88	2 1/4	1,266.95	2 1/4	907.39	2 1/4	547.47	2 1/4	187.55	2 1/4		2 1/4		2 1/4		2 1/4	
2 1/2	1,979.32	2 1/2	1,619.39	2 1/2	1,259.45	2 1/2	899.89	2 1/2	539.97	2 1/2	180.06	2 1/2		2 1/2		2 1/2		2 1/2	
2 3/4	1,971.82	2 3/4	1,611.89	2 3/4	1,251.95	2 3/4	892.39	2 3/4	532.48	2 3/4	172.56	2 3/4		2 3/4		2 3/4		2 3/4	
3	1,964.32	3	1,604.39	3	1,244.46	3	884.90	3	524.98	3	165.06	3		3		3		3	
3 1/4	1,956.82	3 1/4	1,596.89	3 1/4	1,236.96	3 1/4	877.40	3 1/4	517.48	3 1/4	157.56	3 1/4		3 1/4		3 1/4		3 1/4	
3 1/2	1,949.32	3 1/2	1,589.39	3 1/2	1,229.46	3 1/2	869.90	3 1/2	509.98	3 1/2	150.07	3 1/2		3 1/2		3 1/2		3 1/2	
3 3/4	1,941.83	3 3/4	1,581.89	3 3/4	1,221.96	3 3/4	862.40	3 3/4	502.48	3 3/4	142.58	3 3/4		3 3/4		3 3/4		3 3/4	
4	1,934.33	4	1,574.39	4	1,214.47	4	854.90	4	494.98	4	135.09	4		4		4		4	
4 1/4	1,926.83	4 1/4	1,566.90	4 1/4	1,206.97	4 1/4	847.40	4 1/4	487.49	4 1/4	127.60	4 1/4		4 1/4		4 1/4		4 1/4	
4 1/2	1,919.33	4 1/2	1,559.40	4 1/2	1,199.48	4 1/2	839.91	4 1/2	479.99	4 1/2	120.11	4 1/2		4 1/2		4 1/2		4 1/2	
4 3/4	1,911.83	4 3/4	1,551.90	4 3/4	1,191.99	4 3/4	832.41	4 3/4	472.49	4 3/4	112.65	4 3/4		4 3/4		4 3/4		4 3/4	
5	1,904.33	5	1,544.40	5	1,184.50	5	824.91	5	464.99	5	105.19	5		5		5		5	
5 1/4	1,896.83	5 1/4	1,536.90	5 1/4	1,177.01	5 1/4	817.41	5 1/4	457.49	5 1/4	97.73	5 1/4		5 1/4		5 1/4		5 1/4	
5 1/2	1,889.34	5 1/2	1,529.40	5 1/2	1,169.52	5 1/2	809.91	5 1/2	449.99	5 1/2	90.26	5 1/2		5 1/2		5 1/2		5 1/2	
5 3/4	1,881.84	5 3/4	1,521.90	5 3/4	1,162.03	5 3/4	802.41	5 3/4	442.50	5 3/4	83.39	5 3/4		5 3/4		5 3/4		5 3/4	
6	1,874.34	6	1,514.41	6	1,154.54	6	794.92	6	435.00	6	76.52	6		6		6		6	
6 1/4	1,866.84	6 1/4	1,506.91	6 1/4	1,147.05	6 1/4	787.42	6 1/4	427.50	6 1/4	69.65	6 1/4		6 1/4		6 1/4		6 1/4	
6 1/2	1,859.34	6 1/2	1,499.41	6 1/2	1,139.56	6 1/2	779.92	6 1/2	420.00	6 1/2	62.78	6 1/2		6 1/2		6 1/2		6 1/2	
6 3/4	1,851.84	6 3/4	1,491.91	6 3/4	1,132.07	6 3/4	772.42	6 3/4	412.50	6 3/4	55.15	6 3/4		6 3/4		6 3/4		6 3/4	
7	1,844.34	7	1,484.41	7	1,124.58	7	764.92	7	405.00	7	51.53	7		7		7		7	
7 1/4	1,836.84	7 1/4	1,476.91	7 1/4	1,117.09	7 1/4	757.42	7 1/4	397.51	7 1/4	45.91	7 1/4		7 1/4		7 1/4		7 1/4	
7 1/2	1,829.35	7 1/2	1,469.41	7 1/2	1,109.61	7 1/2	749.93	7 1/2	390.01	7 1/2	40.29	7 1/2		7 1/2		7 1/2		7 1/2	
7 3/4	1,821.85	7 3/4	1,461.91	7 3/4	1,102.12	7 3/4	742.43	7 3/4	382.51	7 3/4	35.91	7 3/4		7 3/4		7 3/4		7 3/4	
8	1,814.35	8	1,454.42	8	1,094.63	8	734.93	8	375.01	8	31.54	8		8		8		8	
8 1/4	1,806.85	8 1/4	1,446.92	8 1/4	1,087.14	8 1/4	727.43	8 1/4	367.51	8 1/4	27.17	8 1/4		8 1/4		8 1/4		8 1/4	
8 1/2	1,799.35	8 1/2	1,439.42	8 1/2	1,079.65	8 1/2	719.93	8 1/2	360.01	8 1/2	22.80	8 1/2		8 1/2		8 1/2		8 1/2	
8 3/4	1,791.85	8 3/4	1,431.92	8 3/4	1,072.16	8 3/4	712.43	8 3/4	352.52	8 3/4		8 3/4		8 3/4		8 3/4		8 3/4	
9	1,784.35	9	1,424.42	9	1,064.67	9	704.94	9	345.02	9		9		9		9		9	
9 1/4	1,776.86	9 1/4	1,416.92	9 1/4	1,057.18	9 1/4	697.44	9 1/4	337.52	9 1/4		9 1/4		9 1/4		9 1/4		9 1/4	
9 1/2	1,769.36	9 1/2	1,409.42	9 1/2	1,049.69	9 1/2	689.94	9 1/2	330.02	9 1/2		9 1/2		9 1/2		9 1/2		9 1/2	
9 3/4	1,761.86	9 3/4	1,401.93	9 3/4	1,042.20	9 3/4	682.44	9 3/4	322.52	9 3/4		9 3/4		9 3/4		9 3/4		9 3/4	
10	1,754.36	10	1,394.43	10	1,034.71	10	674.94	10	315.02	10		10		10		10		10	
10 1/4	1,746.86	10 1/4	1,386.93	10 1/4	1,027.22	10 1/4	667.44	10 1/4	307.53	10 1/4		10 1/4		10 1/4		10 1/4		10 1/4	
10 1/2	1,739.36	10 1/2	1,379.43	10 1/2	1,019.74	10 1/2	659.95	10 1/2	300.03	10 1/2		10 1/2		10 1/2		10 1/2		10 1/2	
10 3/4	1,731.86	10 3/4	1,371.93	10 3/4	1,012.25	10 3/4	652.45	10 3/4	292.53	10 3/4		10 3/4		10 3/4		10 3/4		10 3/4	
11	1,724.37	11	1,364.43	11	1,004.76	11	644.95	11	285.03	11		11		11		11		11	
11 1/4	1,716.87	11 1/4	1,356.93	11 1/4	997.27	11 1/4	637.45	11 1/4	277.53	11 1/4		11 1/4		11 1/4		11 1/4		11 1/4	
11 1/2	1,709.37	11 1/2	1,349.44	11 1/2	989.78	11 1/2	629.95	11 1/2	270.03	11 1/2		11 1/2		11 1/2		11 1/2		11 1/2	
11 3/4	1,701.87	11 3/4	1,341.94	11 3/4	982.29	11 3/4	622.45	11 3/4	262.54	11 3/4		11 3/4		11 3/4		11 3/4		11 3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/31/2013 CL
CALCULATED: 11/01/2013 CL
PRINTED: 11/02/2013 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2013

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



BARGE "HSM 1002"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/4"

N	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	4,231.08	0	4,047.20	0	3,855.20	0	3,662.31	0	3,459.14	0	3,101.85	0	2,743.49	0	2,384.34	0	2,384.34
1/4	1/4	1/4	4,381.54	1/4	4,227.35	1/4	4,043.27	1/4	3,851.18	1/4	3,658.30	1/4	3,451.69	1/4	3,094.38	1/4	2,736.01	1/4	2,376.86
1/2	1/2	1/2	4,380.68	1/2	4,223.61	1/2	4,039.32	1/2	3,847.16	1/2	3,654.28	1/2	3,444.24	1/2	3,088.91	1/2	2,728.53	1/2	2,369.38
3/4	3/4	3/4	4,379.83	3/4	4,219.87	3/4	4,035.37	3/4	3,843.14	3/4	3,650.26	3/4	3,436.79	3/4	3,079.44	3/4	2,721.05	3/4	2,361.90
1	1	1	4,378.97	1	4,216.13	1	4,031.42	1	3,839.12	1	3,646.24	1	3,429.34	1	3,071.98	1	2,713.56	1	2,354.41
1 1/4	1 1/4	1 1/4	4,378.12	1 1/4	4,212.38	1 1/4	4,027.48	1 1/4	3,835.10	1 1/4	3,642.22	1 1/4	3,421.89	1 1/4	3,064.51	1 1/4	2,706.08	1 1/4	2,346.93
1 1/2	1 1/2	1 1/2	4,376.03	1 1/2	4,208.63	1 1/2	4,023.52	1 1/2	3,831.09	1 1/2	3,638.20	1 1/2	3,414.44	1 1/2	3,057.05	1 1/2	2,698.60	1 1/2	2,339.45
1 3/4	1 3/4	1 3/4	4,373.93	1 3/4	4,204.87	1 3/4	4,019.55	1 3/4	3,827.07	1 3/4	3,634.18	1 3/4	3,406.99	1 3/4	3,049.59	1 3/4	2,691.12	1 3/4	2,331.96
2	2	2	4,371.84	2	4,201.11	2	4,015.59	2	3,823.05	2	3,630.17	2	3,399.54	2	3,042.12	2	2,683.64	2	2,324.48
2 1/4	2 1/4	2 1/4	4,369.75	2 1/4	4,197.35	2 1/4	4,011.63	2 1/4	3,819.03	2 1/4	3,626.15	2 1/4	3,392.09	2 1/4	3,034.66	2 1/4	2,676.16	2 1/4	2,317.00
2 1/2	2 1/2	2 1/2	4,366.83	2 1/2	4,193.58	2 1/2	4,007.65	2 1/2	3,815.01	2 1/2	3,622.13	2 1/2	3,384.64	2 1/2	3,027.20	2 1/2	2,668.68	2 1/2	2,309.52
2 3/4	2 3/4	2 3/4	4,363.92	2 3/4	4,189.81	2 3/4	4,003.67	2 3/4	3,810.99	2 3/4	3,618.11	2 3/4	3,377.19	2 3/4	3,019.74	2 3/4	2,661.20	2 3/4	2,302.03
3	3	3	4,361.00	3	4,186.03	3	3,999.69	3	3,806.98	3	3,614.09	3	3,369.74	3	3,012.28	3	2,653.71	3	2,294.55
3 1/4	3 1/4	3 1/4	4,358.08	3 1/4	4,182.26	3 1/4	3,995.71	3 1/4	3,802.96	3 1/4	3,610.07	3 1/4	3,362.29	3 1/4	3,004.82	3 1/4	2,646.23	3 1/4	2,287.07
3 1/2	3 1/2	3 1/2	4,354.55	3 1/2	4,178.47	3 1/2	3,991.72	3 1/2	3,798.94	3 1/2	3,606.06	3 1/2	3,354.84	3 1/2	2,997.36	3 1/2	2,638.75	3 1/2	2,279.58
3 3/4	3 3/4	3 3/4	4,351.03	3 3/4	4,174.68	3 3/4	3,987.72	3 3/4	3,794.92	3 3/4	3,602.04	3 3/4	3,347.39	3 3/4	2,989.90	3 3/4	2,631.27	3 3/4	2,272.10
4	4	4	4,347.50	4	4,170.89	4	3,983.73	4	3,790.90	4	3,598.02	4	3,339.94	4	2,982.44	4	2,623.79	4	2,264.62
4 1/4	4 1/4	4 1/4	4,343.98	4 1/4	4,167.10	4 1/4	3,979.73	4 1/4	3,786.88	4 1/4	3,594.00	4 1/4	3,332.49	4 1/4	2,974.97	4 1/4	2,616.31	4 1/4	2,257.14
4 1/2	4 1/2	4 1/2	4,340.41	4 1/2	4,163.30	4 1/2	3,975.72	4 1/2	3,782.87	4 1/2	3,589.98	4 1/2	3,325.04	4 1/2	2,967.51	4 1/2	2,608.83	4 1/2	2,249.65
4 3/4	4 3/4	4 3/4	4,336.85	4 3/4	4,159.49	4 3/4	3,971.71	4 3/4	3,778.85	4 3/4	3,585.96	4 3/4	3,317.59	4 3/4	2,960.05	4 3/4	2,601.35	4 3/4	2,242.17
5	5	5	4,333.28	5	4,155.69	5	3,967.70	5	3,774.83	5	3,581.95	5	3,310.14	5	2,952.59	5	2,593.86	5	2,234.69
5 1/4	5 1/4	5 1/4	4,329.72	5 1/4	4,151.88	5 1/4	3,963.69	5 1/4	3,770.81	5 1/4	3,577.93	5 1/4	3,302.69	5 1/4	2,945.13	5 1/4	2,586.38	5 1/4	2,227.20
5 1/2	5 1/2	5 1/2	4,326.13	5 1/2	4,148.06	5 1/2	3,959.68	5 1/2	3,766.79	5 1/2	3,573.91	5 1/2	3,295.25	5 1/2	2,937.67	5 1/2	2,578.90	5 1/2	2,219.72
5 3/4	5 3/4	5 3/4	4,322.53	5 3/4	4,144.24	5 3/4	3,955.66	5 3/4	3,762.77	5 3/4	3,569.89	5 3/4	3,287.82	5 3/4	2,930.21	5 3/4	2,571.42	5 3/4	2,212.24
6	6	6	4,318.94	6	4,140.42	6	3,951.64	6	3,758.76	6	3,565.87	6	3,280.38	6	2,922.75	6	2,563.93	6	2,204.75
6 1/4	6 1/4	6 1/4	4,315.35	6 1/4	4,136.60	6 1/4	3,947.62	6 1/4	3,754.74	6 1/4	3,561.85	6 1/4	3,272.95	6 1/4	2,915.29	6 1/4	2,556.45	6 1/4	2,197.27
6 1/2	6 1/2	6 1/2	4,311.75	6 1/2	4,132.76	6 1/2	3,943.60	6 1/2	3,750.72	6 1/2	3,557.84	6 1/2	3,265.51	6 1/2	2,907.82	6 1/2	2,548.97	6 1/2	2,189.79
6 3/4	6 3/4	6 3/4	4,308.14	6 3/4	4,128.92	6 3/4	3,939.58	6 3/4	3,746.70	6 3/4	3,553.82	6 3/4	3,258.08	6 3/4	2,900.36	6 3/4	2,541.49	6 3/4	2,182.31
7	7	7	4,304.53	7	4,125.09	7	3,935.56	7	3,742.68	7	3,549.80	7	3,250.64	7	2,892.90	7	2,534.00	7	2,174.82
7 1/4	7 1/4	7 1/4	4,300.92	7 1/4	4,121.25	7 1/4	3,931.55	7 1/4	3,738.66	7 1/4	3,545.78	7 1/4	3,243.21	7 1/4	2,885.44	7 1/4	2,526.52	7 1/4	2,167.34
7 1/2	7 1/2	7 1/2	4,297.30	7 1/2	4,117.38	7 1/2	3,927.53	7 1/2	3,734.64	7 1/2	3,541.76	7 1/2	3,235.78	7 1/2	2,877.97	7 1/2	2,519.04	7 1/2	2,159.88
7 3/4	7 3/4	7 3/4	4,293.67	7 3/4	4,113.51	7 3/4	3,923.51	7 3/4	3,730.63	7 3/4	3,537.74	7 3/4	3,228.34	7 3/4	2,870.50	7 3/4	2,511.55	7 3/4	2,152.37
8	8	8	4,290.05	8	4,109.65	8	3,919.49	8	3,726.61	8	3,533.72	8	3,220.91	8	2,863.03	8	2,504.07	8	2,144.89
8 1/4	8 1/4	8 1/4	4,286.43	8 1/4	4,105.78	8 1/4	3,915.47	8 1/4	3,722.59	8 1/4	3,529.71	8 1/4	3,213.47	8 1/4	2,855.57	8 1/4	2,496.59	8 1/4	2,137.41
8 1/2	8 1/2	8 1/2	4,282.79	8 1/2	4,101.90	8 1/2	3,911.45	8 1/2	3,718.57	8 1/2	3,525.69	8 1/2	3,206.04	8 1/2	2,848.10	8 1/2	2,489.11	8 1/2	2,129.93
8 3/4	8 3/4	8 3/4	4,279.15	8 3/4	4,098.01	8 3/4	3,907.44	8 3/4	3,714.55	8 3/4	3,521.87	8 3/4	3,198.80	8 3/4	2,840.63	8 3/4	2,481.62	8 3/4	2,122.44
9	9	9	4,275.51	9	4,094.13	9	3,903.42	9	3,710.53	9	3,517.65	9	3,191.17	9	2,833.16	9	2,474.14	9	2,114.96
9 1/4	9 1/4	9 1/4	4,271.87	9 1/4	4,090.25	9 1/4	3,899.40	9 1/4	3,706.52	9 1/4	3,513.63	9 1/4	3,183.73	9 1/4	2,825.69	9 1/4	2,466.66	9 1/4	2,107.48
9 1/2	9 1/2	9 1/2	4,268.17	9 1/2	4,086.35	9 1/2	3,895.38	9 1/2	3,702.50	9 1/2	3,509.61	9 1/2	3,176.30	9 1/2	2,818.22	9 1/2	2,459.17	9 1/2	2,099.99
9 3/4	9 3/4	9 3/4	4,264.48	9 3/4	4,082.45	9 3/4	3,891.36	9 3/4	3,698.48	9 3/4	3,505.60	9 3/4	3,168.86	9 3/4	2,810.75	9 3/4	2,451.69	9 3/4	2,092.51
10	10	10	4,260.79	10	4,078.55	10	3,887.34	10	3,694.46	10	3,501.58	10	3,161.43	10	2,803.29	10	2,444.21	10	2,085.03
10 1/4	10 1/4	10 1/4	4,257.09	10 1/4	4,074.65	10 1/4	3,883.33	10 1/4	3,690.44	10 1/4	3,497.56	10 1/4	3,154.00	10 1/4	2,795.82	10 1/4	2,436.72	10 1/4	2,077.55
10 1/2	10 1/2	10 1/2	4,253.38	10 1/2	4,070.73	10 1/2	3,879.31	10 1/2	3,686.42	10 1/2	3,493.54	10 1/2	3,146.56	10 1/2	2,788.35	10 1/2	2,429.24	10 1/2	2,070.08
10 3/4	10 3/4	10 3/4	4,249.67	10 3/4	4,066.82	10 3/4	3,875.29	10 3/4	3,682.41	10 3/4	3,489.52	10 3/4	3,139.13	10 3/4	2,780.88	10 3/4	2,421.76	10 3/4	2,062.58
11	11	11	4,245.96	11	4,062.90	11	3,871.27	11	3,678.39	11	3,485.50	11	3,131.69	11	2,773.41	11	2,414.28	11	2,055.10
11 1/4	11 1/4	11 1/4	4,242.25	11 1/4	4,058.99	11 1/4	3,867.25	11 1/4	3,674.37	11 1/4	3,481.49	11 1/4	3,124.26	11 1/4	2,765.94	11 1/4	2,406.79	11 1/4	2,047.61
11 1/2	11 1/2	11 1/2	4,238.53	11 1/2	4,055.06	11 1/2	3,863.23	11 1/2	3,670.35	11 1/2	3,474.04	11 1/2	3,116.79	11 1/2	2,758.46	11 1/2	2,399.31	11 1/2	2,040.13
11 3/4	11 3/4	11 3/4	4,234.80	11 3/4	4,051.13	11 3/4	3,859.22	11 3/4	3,666.33	11 3/4	3,466.59	11 3/4	3,109.32	11 3/4	2,750.98	11 3/4	2,391.83	11 3/4	2,032.65

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'-09" OFF CENTERLINE AND 55'-00" FORWARD OF AFT BULKHEAD.

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



BARGE "HSM 1002"

3 STBD
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/4"

N	10 FT.	N	11 FT.	N	12 FT.	N	13 FT.	N	14 FT.	N	15 FT.	N	16 FT.	N	17 FT.	N	18 FT.	N	19 FT.
0	2,025.17	0	1,665.91	0	1,308.06	0	959.26	0	606.58	0	247.20	0		0		0		0	
1/4	2,017.68	1/4	1,658.42	1/4	1,300.64	1/4	952.11	1/4	599.07	1/4	239.71	1/4		1/4		1/4		1/4	
1/2	2,010.20	1/2	1,650.94	1/2	1,293.22	1/2	944.96	1/2	591.59	1/2	232.22	1/2		1/2		1/2		1/2	
3/4	2,002.71	3/4	1,643.45	3/4	1,285.80	3/4	937.81	3/4	584.10	3/4	224.74	3/4		3/4		3/4		3/4	
1	1,995.23	1	1,635.97	1	1,278.37	1	930.66	1	576.61	1	217.25	1		1		1		1	
1 1/4	1,987.74	1 1/4	1,628.48	1 1/4	1,270.95	1 1/4	923.52	1 1/4	569.13	1 1/4	209.76	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,980.26	1 1/2	1,621.00	1 1/2	1,263.53	1 1/2	916.36	1 1/2	561.64	1 1/2	202.28	1 1/2		1 1/2		1 1/2		1 1/2	
3 1/4	1,972.77	3 1/4	1,613.51	3 1/4	1,256.10	3 1/4	909.21	3 1/4	554.15	3 1/4	194.79	3 1/4		3 1/4		3 1/4		3 1/4	
2	1,965.29	2	1,606.03	2	1,248.68	2	902.06	2	546.67	2	187.30	2		2		2		2	
1 1/4	1,957.81	1 1/4	1,598.54	1 1/4	1,241.26	1 1/4	894.91	1 1/4	539.18	1 1/4	179.82	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,950.32	1 1/2	1,591.06	1 1/2	1,233.85	1 1/2	887.73	1 1/2	531.69	1 1/2	172.33	1 1/2		1 1/2		1 1/2		1 1/2	
3 1/4	1,942.84	3 1/4	1,583.58	3 1/4	1,226.45	3 1/4	880.56	3 1/4	524.21	3 1/4	164.85	3 1/4		3 1/4		3 1/4		3 1/4	
3	1,935.35	3	1,576.09	3	1,219.04	3	873.38	3	516.72	3	157.36	3		3		3		3	
1 1/4	1,927.87	1 1/4	1,568.61	1 1/4	1,211.63	1 1/4	866.21	1 1/4	509.23	1 1/4	149.88	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,920.38	1 1/2	1,561.12	1 1/2	1,204.23	1 1/2	859.03	1 1/2	501.75	1 1/2	142.39	1 1/2		1 1/2		1 1/2		1 1/2	
3 1/4	1,912.90	3 1/4	1,553.64	3 1/4	1,196.83	3 1/4	851.86	3 1/4	494.26	3 1/4	134.91	3 1/4		3 1/4		3 1/4		3 1/4	
4	1,905.41	4	1,546.15	4	1,189.42	4	844.69	4	486.77	4	127.43	4		4		4		4	
1 1/4	1,897.93	1 1/4	1,538.67	1 1/4	1,182.02	1 1/4	837.51	1 1/4	479.29	1 1/4	119.95	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,890.44	1 1/2	1,531.18	1 1/2	1,174.59	1 1/2	830.31	1 1/2	471.80	1 1/2	112.49	1 1/2		1 1/2		1 1/2		1 1/2	
3 1/4	1,882.96	3 1/4	1,523.70	3 1/4	1,167.15	3 1/4	823.11	3 1/4	464.31	3 1/4	105.04	3 1/4		3 1/4		3 1/4		3 1/4	
5	1,875.48	5	1,516.21	5	1,159.72	5	815.90	5	456.83	5	97.59	5		5		5		5	
1 1/4	1,867.99	1 1/4	1,508.73	1 1/4	1,152.29	1 1/4	808.70	1 1/4	449.34	1 1/4	90.14	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,860.51	1 1/2	1,501.25	1 1/2	1,144.84	1 1/2	801.21	1 1/2	441.85	1 1/2	83.29	1 1/2		1 1/2		1 1/2		1 1/2	
3 1/4	1,853.02	3 1/4	1,493.76	3 1/4	1,137.39	3 1/4	793.73	3 1/4	434.37	3 1/4	76.44	3 1/4		3 1/4		3 1/4		3 1/4	
6	1,845.54	6	1,486.28	6	1,130.84	6	786.24	6	426.88	6	69.59	6		6		6		6	
1 1/4	1,838.05	1 1/4	1,478.79	1 1/4	1,123.69	1 1/4	778.75	1 1/4	419.39	1 1/4	62.74	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,830.57	1 1/2	1,471.37	1 1/2	1,116.54	1 1/2	771.27	1 1/2	411.90	1 1/2	57.13	1 1/2		1 1/2		1 1/2		1 1/2	
3 1/4	1,823.08	3 1/4	1,463.95	3 1/4	1,109.39	3 1/4	763.78	3 1/4	404.42	3 1/4	51.52	3 1/4		3 1/4		3 1/4		3 1/4	
7	1,815.60	7	1,456.52	7	1,102.24	7	756.29	7	396.93	7	45.90	7		7		7		7	
1 1/4	1,808.11	1 1/4	1,449.10	1 1/4	1,095.09	1 1/4	748.81	1 1/4	389.44	1 1/4	40.29	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,800.63	1 1/2	1,441.68	1 1/2	1,087.94	1 1/2	741.32	1 1/2	381.96	1 1/2	35.92	1 1/2		1 1/2		1 1/2		1 1/2	
3 1/4	1,793.14	3 1/4	1,434.25	3 1/4	1,080.80	3 1/4	733.83	3 1/4	374.47	3 1/4	31.55	3 1/4		3 1/4		3 1/4		3 1/4	
8	1,785.66	8	1,426.83	8	1,073.65	8	726.35	8	366.98	8	27.17	8		8		8		8	
1 1/4	1,778.18	1 1/4	1,419.41	1 1/4	1,066.50	1 1/4	718.86	1 1/4	359.50	1 1/4	22.80	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,770.69	1 1/2	1,411.99	1 1/2	1,059.35	1 1/2	711.37	1 1/2	352.01	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3 1/4	1,763.21	3 1/4	1,404.56	3 1/4	1,052.20	3 1/4	703.89	3 1/4	344.52	3 1/4		3 1/4		3 1/4		3 1/4		3 1/4	
9	1,755.72	9	1,397.14	9	1,045.05	9	696.40	9	337.04	9		9		9		9		9	
1 1/4	1,748.24	1 1/4	1,389.72	1 1/4	1,037.90	1 1/4	688.91	1 1/4	329.55	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,740.75	1 1/2	1,382.29	1 1/2	1,030.75	1 1/2	681.43	1 1/2	322.06	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3 1/4	1,733.27	3 1/4	1,374.87	3 1/4	1,023.60	3 1/4	673.94	3 1/4	314.58	3 1/4		3 1/4		3 1/4		3 1/4		3 1/4	
10	1,725.78	10	1,367.45	10	1,016.45	10	666.45	10	307.09	10		10		10		10		10	
1 1/4	1,718.30	1 1/4	1,360.02	1 1/4	1,009.30	1 1/4	658.97	1 1/4	299.60	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,710.81	1 1/2	1,352.60	1 1/2	1,002.16	1 1/2	651.48	1 1/2	292.12	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3 1/4	1,703.33	3 1/4	1,345.18	3 1/4	995.01	3 1/4	643.99	3 1/4	284.63	3 1/4		3 1/4		3 1/4		3 1/4		3 1/4	
11	1,695.84	11	1,337.76	11	987.86	11	636.51	11	277.14	11		11		11		11		11	
1 1/4	1,688.36	1 1/4	1,330.33	1 1/4	980.71	1 1/4	629.02	1 1/4	269.66	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,680.88	1 1/2	1,322.91	1 1/2	973.56	1 1/2	621.53	1 1/2	262.17	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3 1/4	1,673.39	3 1/4	1,315.49	3 1/4	966.41	3 1/4	614.05	3 1/4	254.68	3 1/4		3 1/4		3 1/4		3 1/4		3 1/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/31/2013 CL
CALCULATED: 11/01/2013 CL
PRINTED: 11/02/2013 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2013

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77584
<http://www.pmacorp.net>



BARGE "HSM 1002"

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

October 31, 2013

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

<http://www.pmacorp.net>



BARGE "HSM 1002"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09"

N	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	22.95	0	362.57	0	725.05	0	1,087.28	0	1,449.53	0	1,812.02	0	2,174.51	0	2,537.00	0	2,899.39	0	3,261.75
1.4	27.36	1.4	370.12	1.4	732.60	1.4	1,094.82	1.4	1,457.08	1.4	1,819.57	1.4	2,182.06	1.4	2,544.55	1.4	2,906.94	1.4	3,269.30
1.2	31.76	1.2	377.67	1.2	740.15	1.2	1,102.36	1.2	1,464.63	1.2	1,827.12	1.2	2,189.62	1.2	2,552.11	1.2	2,914.49	1.2	3,276.85
3.4	36.17	3.4	385.23	3.4	747.70	3.4	1,109.90	3.4	1,472.19	3.4	1,834.68	3.4	2,197.17	3.4	2,559.66	3.4	2,922.04	3.4	3,284.40
1	40.57	1	392.78	1	755.25	1	1,117.44	1	1,479.74	1	1,842.23	1	2,204.72	1	2,567.21	1	2,929.59	1	3,291.95
1.4	46.23	1.4	400.33	1.4	762.81	1.4	1,124.98	1.4	1,487.29	1.4	1,849.78	1.4	2,212.27	1.4	2,574.76	1.4	2,937.14	1.4	3,299.50
1.2	51.90	1.2	407.88	1.2	770.36	1.2	1,132.52	1.2	1,494.84	1.2	1,857.33	1.2	2,219.82	1.2	2,582.31	1.2	2,944.69	1.2	3,307.04
3.4	57.56	3.4	415.43	3.4	777.91	3.4	1,140.06	3.4	1,502.39	3.4	1,864.88	3.4	2,227.38	3.4	2,589.87	3.4	2,952.24	3.4	3,314.59
2	63.22	2	422.98	2	785.46	2	1,147.60	2	1,509.94	2	1,872.44	2	2,234.93	2	2,597.42	2	2,959.79	2	3,322.14
1.4	70.14	1.4	430.54	1.4	793.01	1.4	1,155.14	1.4	1,517.50	1.4	1,879.99	1.4	2,242.48	1.4	2,604.97	1.4	2,967.34	1.4	3,329.69
1.2	77.06	1.2	438.09	1.2	800.56	1.2	1,162.68	1.2	1,525.05	1.2	1,887.54	1.2	2,250.03	1.2	2,612.52	1.2	2,974.88	1.2	3,337.24
3.4	83.98	3.4	445.64	3.4	808.12	3.4	1,170.22	3.4	1,532.60	3.4	1,895.09	3.4	2,257.58	3.4	2,620.07	3.4	2,982.43	3.4	3,344.79
3	90.90	3	453.19	3	815.67	3	1,177.76	3	1,540.15	3	1,902.64	3	2,265.13	3	2,627.63	3	2,989.98	3	3,352.34
1.4	98.42	1.4	460.74	1.4	823.22	1.4	1,185.30	1.4	1,547.70	1.4	1,910.20	1.4	2,272.69	1.4	2,635.17	1.4	2,997.53	1.4	3,359.89
1.2	105.93	1.2	468.29	1.2	830.77	1.2	1,192.84	1.2	1,555.26	1.2	1,917.75	1.2	2,280.24	1.2	2,642.72	1.2	3,005.08	1.2	3,367.44
3.4	113.45	3.4	475.84	3.4	838.32	3.4	1,200.38	3.4	1,562.81	3.4	1,925.30	3.4	2,287.79	3.4	2,650.27	3.4	3,012.63	3.4	3,374.99
4	120.97	4	483.40	4	845.87	4	1,207.92	4	1,570.36	4	1,932.85	4	2,295.34	4	2,657.82	4	3,020.18	4	3,382.54
1.4	128.51	1.4	490.95	1.4	853.42	1.4	1,215.46	1.4	1,577.91	1.4	1,940.40	1.4	2,302.89	1.4	2,665.37	1.4	3,027.73	1.4	3,390.09
1.2	136.05	1.2	498.50	1.2	860.98	1.2	1,223.00	1.2	1,585.46	1.2	1,947.95	1.2	2,310.45	1.2	2,672.92	1.2	3,035.28	1.2	3,397.63
3.4	143.59	3.4	506.05	3.4	868.53	3.4	1,230.54	3.4	1,593.02	3.4	1,955.51	3.4	2,318.00	3.4	2,680.47	3.4	3,042.83	3.4	3,405.18
5	151.13	5	513.60	5	876.08	5	1,238.08	5	1,600.57	5	1,963.06	5	2,325.55	5	2,688.02	5	3,050.38	5	3,412.73
1.4	158.68	1.4	521.15	1.4	883.63	1.4	1,245.63	1.4	1,608.12	1.4	1,970.61	1.4	2,333.10	1.4	2,695.57	1.4	3,057.92	1.4	3,420.28
1.2	166.23	1.2	528.71	1.2	891.18	1.2	1,253.18	1.2	1,615.67	1.2	1,978.16	1.2	2,340.65	1.2	2,703.12	1.2	3,065.47	1.2	3,427.83
3.4	173.78	3.4	536.26	3.4	898.73	3.4	1,260.73	3.4	1,623.22	3.4	1,985.71	3.4	2,348.21	3.4	2,710.67	3.4	3,073.02	3.4	3,435.38
6	181.33	6	543.81	6	906.29	6	1,268.28	6	1,630.78	6	1,993.27	6	2,355.76	6	2,718.22	6	3,080.57	6	3,442.93
1.4	188.88	1.4	551.36	1.4	913.84	1.4	1,275.84	1.4	1,638.33	1.4	2,000.82	1.4	2,363.31	1.4	2,725.76	1.4	3,088.12	1.4	3,450.48
1.2	196.44	1.2	558.91	1.2	921.39	1.2	1,283.39	1.2	1,645.88	1.2	2,008.37	1.2	2,370.86	1.2	2,733.31	1.2	3,095.67	1.2	3,458.03
3.4	203.99	3.4	566.46	3.4	928.94	3.4	1,290.94	3.4	1,653.43	3.4	2,015.92	3.4	2,378.41	3.4	2,740.86	3.4	3,103.22	3.4	3,465.58
7	211.54	7	574.02	7	936.49	7	1,298.49	7	1,660.98	7	2,023.47	7	2,385.97	7	2,748.41	7	3,110.77	7	3,473.13
1.4	219.09	1.4	581.57	1.4	944.03	1.4	1,306.04	1.4	1,668.53	1.4	2,031.03	1.4	2,393.52	1.4	2,755.96	1.4	3,118.32	1.4	3,480.67
1.2	226.64	1.2	589.12	1.2	951.57	1.2	1,313.60	1.2	1,676.09	1.2	2,038.58	1.2	2,401.07	1.2	2,763.51	1.2	3,125.87	1.2	3,488.22
3.4	234.19	3.4	596.67	3.4	959.11	3.4	1,321.15	3.4	1,683.64	3.4	2,046.13	3.4	2,408.62	3.4	2,771.06	3.4	3,133.42	3.4	3,495.77
8	241.75	8	604.22	8	966.65	8	1,328.70	8	1,691.19	8	2,053.68	8	2,416.17	8	2,778.61	8	3,140.96	8	3,503.32
1.4	249.30	1.4	611.77	1.4	974.19	1.4	1,336.25	1.4	1,698.74	1.4	2,061.23	1.4	2,423.72	1.4	2,786.16	1.4	3,148.51	1.4	3,510.87
1.2	256.85	1.2	619.33	1.2	981.73	1.2	1,343.80	1.2	1,706.29	1.2	2,068.79	1.2	2,431.28	1.2	2,793.71	1.2	3,156.06	1.2	3,518.42
3.4	264.40	3.4	626.88	3.4	989.27	3.4	1,351.35	3.4	1,713.85	3.4	2,076.34	3.4	2,438.83	3.4	2,801.26	3.4	3,163.61	3.4	3,525.97
9	271.95	9	634.43	9	996.81	9	1,358.91	9	1,721.40	9	2,083.89	9	2,446.38	9	2,808.80	9	3,171.16	9	3,533.52
1.4	279.50	1.4	641.98	1.4	1,004.35	1.4	1,366.46	1.4	1,728.95	1.4	2,091.44	1.4	2,453.93	1.4	2,816.35	1.4	3,178.71	1.4	3,541.07
1.2	287.05	1.2	649.53	1.2	1,011.89	1.2	1,374.01	1.2	1,736.50	1.2	2,098.99	1.2	2,461.48	1.2	2,823.90	1.2	3,186.26	1.2	3,548.62
3.4	294.61	3.4	657.08	3.4	1,019.43	3.4	1,381.56	3.4	1,744.05	3.4	2,106.54	3.4	2,469.04	3.4	2,831.45	3.4	3,193.81	3.4	3,556.17
10	302.16	10	664.63	10	1,026.97	10	1,389.11	10	1,751.61	10	2,114.10	10	2,476.59	10	2,839.00	10	3,201.36	10	3,563.71
1.4	309.71	1.4	672.19	1.4	1,034.51	1.4	1,396.67	1.4	1,759.16	1.4	2,121.65	1.4	2,484.14	1.4	2,846.55	1.4	3,208.91	1.4	3,571.26
1.2	317.26	1.2	679.74	1.2	1,042.05	1.2	1,404.22	1.2	1,766.71	1.2	2,129.20	1.2	2,491.69	1.2	2,854.10	1.2	3,216.46	1.2	3,578.81
3.4	324.81	3.4	687.29	3.4	1,049.59	3.4	1,411.77	3.4	1,774.26	3.4	2,136.75	3.4	2,499.24	3.4	2,861.65	3.4	3,224.00	3.4	3,586.36
11	332.36	11	694.84	11	1,057.13	11	1,419.32	11	1,781.81	11	2,144.30	11	2,506.80	11	2,869.20	11	3,231.55	11	3,593.91
1.4	339.92	1.4	702.39	1.4	1,064.67	1.4	1,426.87	1.4	1,789.37	1.4	2,151.86	1.4	2,514.35	1.4	2,876.75	1.4	3,239.10	1.4	3,601.46
1.2	347.47	1.2	709.94	1.2	1,072.21	1.2	1,434.43	1.2	1,796.92	1.2	2,159.41	1.2	2,521.90	1.2	2,884.30	1.2	3,246.65	1.2	3,609.01
3.4	355.02	3.4	717.50	3.4	1,079.74	3.4	1,441.98	3.4	1,804.47	3.4	2,166.96	3.4	2,529.45	3.4	2,891.84	3.4	3,254.20	3.4	3,616.56

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'-09" OFF CENTERLINE AND 42'-09" FORWARD OF AFT BULKHEAD.

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



BARGE "HSM 1002"

1 PORT
INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09"

N	10 FT.	N	11 FT.	N	12 FT.	N	13 FT.	N	14 FT.	N	15 FT.	N	16 FT.	N	17 FT.	N	18 FT.	N	19 FT.
0	3,624.11	0	3,988.46	0	4,348.82	0	4,706.35	0	5,045.67	0		0		0		0		0	
1/4	3,631.66	1/4	3,994.01	1/4	4,356.37	1/4	4,713.61	1/4	5,052.48	1/4		1/4		1/4		1/4		1/4	
1/2	3,639.21	1/2	4,001.56	1/2	4,363.92	1/2	4,720.88	1/2	5,059.29	1/2		1/2		1/2		1/2		1/2	
3/4	3,646.75	3/4	4,009.11	3/4	4,371.47	3/4	4,728.14	3/4	5,066.09	3/4		3/4		3/4		3/4		3/4	
1	3,654.30	1	4,016.66	1	4,379.02	1	4,735.41	1	5,072.90	1		1		1		1		1	
1 1/4	3,661.85	1 1/4	4,024.21	1 1/4	4,386.57	1 1/4	4,742.62	1 1/4	5,079.68	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,669.40	1 1/2	4,031.76	1 1/2	4,394.12	1 1/2	4,749.82	1 1/2	5,086.46	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
1 3/4	3,676.95	1 3/4	4,039.31	1 3/4	4,401.66	1 3/4	4,757.03	1 3/4	5,093.24	1 3/4		1 3/4		1 3/4		1 3/4		1 3/4	
2	3,684.50	2	4,046.86	2	4,409.21	2	4,764.23	2	5,100.02	2		2		2		2		2	
2 1/4	3,692.05	2 1/4	4,054.41	2 1/4	4,416.76	2 1/4	4,771.41	2 1/4	5,106.77	2 1/4		2 1/4		2 1/4		2 1/4		2 1/4	
2 1/2	3,699.60	2 1/2	4,061.95	2 1/2	4,424.31	2 1/2	4,778.59	2 1/2	5,113.51	2 1/2		2 1/2		2 1/2		2 1/2		2 1/2	
2 3/4	3,707.15	2 3/4	4,069.50	2 3/4	4,431.86	2 3/4	4,785.76	2 3/4	5,120.26	2 3/4		2 3/4		2 3/4		2 3/4		2 3/4	
3	3,714.70	3	4,077.05	3	4,439.41	3	4,792.94	3	5,127.01	3		3		3		3		3	
3 1/4	3,722.25	3 1/4	4,084.60	3 1/4	4,446.95	3 1/4	4,800.09	3 1/4	5,133.72	3 1/4		3 1/4		3 1/4		3 1/4		3 1/4	
3 1/2	3,729.79	3 1/2	4,092.15	3 1/2	4,454.48	3 1/2	4,807.23	3 1/2	5,140.43	3 1/2		3 1/2		3 1/2		3 1/2		3 1/2	
3 3/4	3,737.34	3 3/4	4,099.70	3 3/4	4,462.02	3 3/4	4,814.38	3 3/4	5,147.14	3 3/4		3 3/4		3 3/4		3 3/4		3 3/4	
4	3,744.89	4	4,107.25	4	4,469.55	4	4,821.53	4	5,153.85	4		4		4		4		4	
4 1/4	3,752.44	4 1/4	4,114.80	4 1/4	4,477.06	4 1/4	4,828.65	4 1/4	5,160.50	4 1/4		4 1/4		4 1/4		4 1/4		4 1/4	
4 1/2	3,759.99	4 1/2	4,122.35	4 1/2	4,484.56	4 1/2	4,835.76	4 1/2	5,167.15	4 1/2		4 1/2		4 1/2		4 1/2		4 1/2	
4 3/4	3,767.54	4 3/4	4,129.90	4 3/4	4,492.07	4 3/4	4,842.88	4 3/4	5,173.81	4 3/4		4 3/4		4 3/4		4 3/4		4 3/4	
5	3,775.09	5	4,137.45	5	4,499.57	5	4,850.00	5	5,180.46	5		5		5		5		5	
5 1/4	3,782.64	5 1/4	4,145.00	5 1/4	4,507.04	5 1/4	4,857.08	5 1/4	5,186.49	5 1/4		5 1/4		5 1/4		5 1/4		5 1/4	
5 1/2	3,790.19	5 1/2	4,152.54	5 1/2	4,514.52	5 1/2	4,864.17	5 1/2	5,192.52	5 1/2		5 1/2		5 1/2		5 1/2		5 1/2	
5 3/4	3,797.74	5 3/4	4,160.09	5 3/4	4,521.99	5 3/4	4,871.26	5 3/4	5,198.55	5 3/4		5 3/4		5 3/4		5 3/4		5 3/4	
6	3,805.29	6	4,167.64	6	4,529.47	6	4,878.34	6	5,204.57	6		6		6		6		6	
6 1/4	3,812.83	6 1/4	4,175.19	6 1/4	4,536.91	6 1/4	4,885.40	6 1/4	5,210.14	6 1/4		6 1/4		6 1/4		6 1/4		6 1/4	
6 1/2	3,820.38	6 1/2	4,182.74	6 1/2	4,544.36	6 1/2	4,892.46	6 1/2	5,215.70	6 1/2		6 1/2		6 1/2		6 1/2		6 1/2	
6 3/4	3,827.93	6 3/4	4,190.29	6 3/4	4,551.80	6 3/4	4,899.52	6 3/4	5,221.26	6 3/4		6 3/4		6 3/4		6 3/4		6 3/4	
7	3,835.48	7	4,197.84	7	4,559.25	7	4,906.57	7	5,226.82	7		7		7		7		7	
7 1/4	3,843.03	7 1/4	4,205.39	7 1/4	4,566.66	7 1/4	4,913.60	7 1/4	5,231.15	7 1/4		7 1/4		7 1/4		7 1/4		7 1/4	
7 1/2	3,850.58	7 1/2	4,212.94	7 1/2	4,574.08	7 1/2	4,920.63	7 1/2	5,235.49	7 1/2		7 1/2		7 1/2		7 1/2		7 1/2	
7 3/4	3,858.13	7 3/4	4,220.49	7 3/4	4,581.49	7 3/4	4,927.66	7 3/4	5,239.82	7 3/4		7 3/4		7 3/4		7 3/4		7 3/4	
8	3,865.68	8	4,228.04	8	4,588.90	8	4,934.68	8	5,244.15	8		8		8		8		8	
8 1/4	3,873.23	8 1/4	4,235.58	8 1/4	4,596.29	8 1/4	4,941.68	8 1/4		8 1/4		8 1/4		8 1/4		8 1/4		8 1/4	
8 1/2	3,880.78	8 1/2	4,243.13	8 1/2	4,603.67	8 1/2	4,948.68	8 1/2		8 1/2		8 1/2		8 1/2		8 1/2		8 1/2	
8 3/4	3,888.33	8 3/4	4,250.68	8 3/4	4,611.06	8 3/4	4,955.68	8 3/4		8 3/4		8 3/4		8 3/4		8 3/4		8 3/4	
9	3,895.87	9	4,258.23	9	4,618.44	9	4,962.67	9		9		9		9		9		9	
9 1/4	3,903.42	9 1/4	4,265.78	9 1/4	4,625.80	9 1/4	4,969.64	9 1/4		9 1/4		9 1/4		9 1/4		9 1/4		9 1/4	
9 1/2	3,910.97	9 1/2	4,273.33	9 1/2	4,633.15	9 1/2	4,976.61	9 1/2		9 1/2		9 1/2		9 1/2		9 1/2		9 1/2	
9 3/4	3,918.52	9 3/4	4,280.88	9 3/4	4,640.51	9 3/4	4,983.58	9 3/4		9 3/4		9 3/4		9 3/4		9 3/4		9 3/4	
10	3,926.07	10	4,288.43	10	4,647.86	10	4,990.55	10		10		10		10		10		10	
10 1/4	3,933.62	10 1/4	4,295.98	10 1/4	4,655.19	10 1/4	4,997.49	10 1/4		10 1/4		10 1/4		10 1/4		10 1/4		10 1/4	
10 1/2	3,941.17	10 1/2	4,303.53	10 1/2	4,662.52	10 1/2	5,004.43	10 1/2		10 1/2		10 1/2		10 1/2		10 1/2		10 1/2	
10 3/4	3,948.72	10 3/4	4,311.08	10 3/4	4,669.84	10 3/4	5,011.37	10 3/4		10 3/4		10 3/4		10 3/4		10 3/4		10 3/4	
11	3,956.27	11	4,318.62	11	4,677.17	11	5,018.31	11		11		11		11		11		11	
11 1/4	3,963.82	11 1/4	4,326.17	11 1/4	4,684.46	11 1/4	5,025.15	11 1/4		11 1/4		11 1/4		11 1/4		11 1/4		11 1/4	
11 1/2	3,971.37	11 1/2	4,333.72	11 1/2	4,691.76	11 1/2	5,031.99	11 1/2		11 1/2		11 1/2		11 1/2		11 1/2		11 1/2	
11 3/4	3,978.91	11 3/4	4,341.27	11 3/4	4,699.05	11 3/4	5,038.83	11 3/4		11 3/4		11 3/4		11 3/4		11 3/4		11 3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/31/2013 CL
CALCULATED: 11/01/2013 CL
PRINTED: 11/02/2013 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2013

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



BARGE "HSM 1002"

1 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09"

N	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	22.95	0	362.57	0	725.05	0	1,086.34	0	1,447.63	0	1,810.12	0	2,172.61	0	2,535.11	0	2,897.50	0	3,259.85
1/4	27.36	1/4	370.12	1/4	732.60	1/4	1,093.84	1/4	1,455.18	1/4	1,817.68	1/4	2,180.17	1/4	2,542.66	1/4	2,905.05	1/4	3,267.40
1/2	31.76	1/2	377.67	1/2	740.15	1/2	1,101.34	1/2	1,462.74	1/2	1,825.23	1/2	2,187.72	1/2	2,550.21	1/2	2,912.59	1/2	3,274.95
3/4	36.17	3/4	385.23	3/4	747.70	3/4	1,108.84	3/4	1,470.29	3/4	1,832.78	3/4	2,195.27	3/4	2,557.76	3/4	2,920.14	3/4	3,282.50
1	40.57	1	392.78	1	755.25	1	1,116.34	1	1,477.84	1	1,840.33	1	2,202.82	1	2,565.31	1	2,927.69	1	3,290.05
1/4	46.23	1/4	400.33	1/4	762.81	1/4	1,123.84	1/4	1,485.39	1/4	1,847.88	1/4	2,210.37	1/4	2,572.87	1/4	2,935.24	1/4	3,297.60
1/2	51.90	1/2	407.88	1/2	770.36	1/2	1,131.34	1/2	1,492.94	1/2	1,855.44	1/2	2,217.93	1/2	2,580.42	1/2	2,942.79	1/2	3,305.15
3/4	57.56	3/4	415.43	3/4	777.91	3/4	1,138.84	3/4	1,500.50	3/4	1,862.99	3/4	2,225.48	3/4	2,587.97	3/4	2,950.34	3/4	3,312.70
2	63.22	2	422.98	2	785.46	2	1,146.34	2	1,508.05	2	1,870.54	2	2,233.03	2	2,595.52	2	2,957.89	2	3,320.25
1/4	70.14	1/4	430.54	1/4	793.01	1/4	1,153.84	1/4	1,515.60	1/4	1,878.09	1/4	2,240.58	1/4	2,603.07	1/4	2,965.44	1/4	3,327.80
1/2	77.08	1/2	438.09	1/2	800.56	1/2	1,161.34	1/2	1,523.15	1/2	1,885.64	1/2	2,248.13	1/2	2,610.63	1/2	2,972.99	1/2	3,335.34
3/4	83.98	3/4	445.64	3/4	808.12	3/4	1,168.84	3/4	1,530.70	3/4	1,893.19	3/4	2,255.69	3/4	2,618.18	3/4	2,980.54	3/4	3,342.89
3	90.90	3	453.19	3	815.67	3	1,176.34	3	1,538.26	3	1,900.75	3	2,263.24	3	2,625.73	3	2,988.09	3	3,350.44
1/4	98.42	1/4	460.74	1/4	823.22	1/4	1,183.84	1/4	1,545.81	1/4	1,908.30	1/4	2,270.79	1/4	2,633.28	1/4	2,995.63	1/4	3,357.99
1/2	105.93	1/2	468.29	1/2	830.77	1/2	1,191.34	1/2	1,553.36	1/2	1,915.85	1/2	2,278.34	1/2	2,640.83	1/2	3,003.18	1/2	3,365.54
3/4	113.45	3/4	475.84	3/4	838.32	3/4	1,198.84	3/4	1,560.91	3/4	1,923.40	3/4	2,285.89	3/4	2,648.38	3/4	3,010.73	3/4	3,373.09
4	120.97	4	483.40	4	845.87	4	1,206.34	4	1,568.46	4	1,930.95	4	2,293.45	4	2,655.93	4	3,018.28	4	3,380.64
1/4	128.51	1/4	490.95	1/4	853.42	1/4	1,213.84	1/4	1,576.01	1/4	1,938.51	1/4	2,301.00	1/4	2,663.47	1/4	3,025.83	1/4	3,388.19
1/2	136.05	1/2	498.50	1/2	860.98	1/2	1,221.34	1/2	1,583.57	1/2	1,946.06	1/2	2,308.55	1/2	2,671.02	1/2	3,033.38	1/2	3,395.74
3/4	143.59	3/4	506.05	3/4	868.53	3/4	1,228.84	3/4	1,591.12	3/4	1,953.61	3/4	2,316.10	3/4	2,678.57	3/4	3,040.93	3/4	3,403.29
5	151.13	5	513.60	5	876.08	5	1,236.34	5	1,598.67	5	1,961.16	5	2,323.65	5	2,686.12	5	3,048.48	5	3,410.84
1/4	158.68	1/4	521.15	1/4	883.63	1/4	1,243.85	1/4	1,606.22	1/4	1,968.71	1/4	2,331.20	1/4	2,693.67	1/4	3,056.03	1/4	3,418.38
1/2	166.23	1/2	528.71	1/2	891.18	1/2	1,251.36	1/2	1,613.77	1/2	1,976.27	1/2	2,338.76	1/2	2,701.22	1/2	3,063.58	1/2	3,425.93
3/4	173.78	3/4	536.26	3/4	898.73	3/4	1,258.87	3/4	1,621.33	3/4	1,983.82	3/4	2,346.31	3/4	2,708.77	3/4	3,071.13	3/4	3,433.48
6	181.33	6	543.81	6	906.29	6	1,266.39	6	1,628.88	6	1,991.37	6	2,353.86	6	2,716.32	6	3,078.67	6	3,441.03
1/4	188.88	1/4	551.36	1/4	913.80	1/4	1,273.94	1/4	1,636.43	1/4	1,998.92	1/4	2,361.41	1/4	2,723.87	1/4	3,086.22	1/4	3,448.58
1/2	196.44	1/2	558.91	1/2	921.31	1/2	1,281.49	1/2	1,643.98	1/2	2,006.47	1/2	2,368.96	1/2	2,731.42	1/2	3,093.77	1/2	3,456.13
3/4	203.99	3/4	566.46	3/4	928.82	3/4	1,289.04	3/4	1,651.53	3/4	2,014.02	3/4	2,376.52	3/4	2,738.97	3/4	3,101.32	3/4	3,463.68
7	211.54	7	574.02	7	936.33	7	1,296.59	7	1,659.09	7	2,021.58	7	2,384.07	7	2,746.51	7	3,108.87	7	3,471.23
1/4	219.09	1/4	581.57	1/4	943.83	1/4	1,304.15	1/4	1,666.64	1/4	2,029.13	1/4	2,391.62	1/4	2,754.06	1/4	3,116.42	1/4	3,478.78
1/2	226.64	1/2	589.12	1/2	951.33	1/2	1,311.70	1/2	1,674.19	1/2	2,036.68	1/2	2,399.17	1/2	2,761.61	1/2	3,123.97	1/2	3,486.33
3/4	234.19	3/4	596.67	3/4	958.83	3/4	1,319.25	3/4	1,681.74	3/4	2,044.23	3/4	2,406.72	3/4	2,769.16	3/4	3,131.52	3/4	3,493.88
8	241.75	8	604.22	8	966.33	8	1,326.80	8	1,689.29	8	2,051.78	8	2,414.28	8	2,776.71	8	3,139.07	8	3,501.42
1/4	249.30	1/4	611.77	1/4	973.83	1/4	1,334.35	1/4	1,696.85	1/4	2,059.34	1/4	2,421.83	1/4	2,784.26	1/4	3,146.62	1/4	3,508.97
1/2	256.85	1/2	619.33	1/2	981.33	1/2	1,341.91	1/2	1,704.40	1/2	2,066.89	1/2	2,429.38	1/2	2,791.81	1/2	3,154.17	1/2	3,516.52
3/4	264.40	3/4	626.88	3/4	988.83	3/4	1,349.46	3/4	1,711.95	3/4	2,074.44	3/4	2,436.93	3/4	2,799.36	3/4	3,161.72	3/4	3,524.07
9	271.95	9	634.43	9	996.33	9	1,357.01	9	1,719.50	9	2,081.99	9	2,444.48	9	2,806.91	9	3,169.26	9	3,531.62
1/4	279.50	1/4	641.98	1/4	1,003.83	1/4	1,364.56	1/4	1,727.05	1/4	2,089.54	1/4	2,452.04	1/4	2,814.46	1/4	3,176.81	1/4	3,539.17
1/2	287.05	1/2	649.53	1/2	1,011.33	1/2	1,372.11	1/2	1,734.60	1/2	2,097.10	1/2	2,459.59	1/2	2,822.01	1/2	3,184.36	1/2	3,546.72
3/4	294.61	3/4	657.08	3/4	1,018.83	3/4	1,379.67	3/4	1,742.16	3/4	2,104.65	3/4	2,467.14	3/4	2,829.55	3/4	3,191.91	3/4	3,554.27
10	302.16	10	664.63	10	1,026.33	10	1,387.22	10	1,749.71	10	2,112.20	10	2,474.69	10	2,837.10	10	3,199.48	10	3,561.82
1/4	309.71	1/4	672.19	1/4	1,033.84	1/4	1,394.77	1/4	1,757.26	1/4	2,119.75	1/4	2,482.24	1/4	2,844.65	1/4	3,207.01	1/4	3,569.37
1/2	317.26	1/2	679.74	1/2	1,041.34	1/2	1,402.32	1/2	1,764.81	1/2	2,127.30	1/2	2,489.79	1/2	2,852.20	1/2	3,214.56	1/2	3,576.92
3/4	324.81	3/4	687.29	3/4	1,048.84	3/4	1,409.87	3/4	1,772.36	3/4	2,134.86	3/4	2,497.35	3/4	2,859.75	3/4	3,222.11	3/4	3,584.46
11	332.36	11	694.84	11	1,056.34	11	1,417.42	11	1,779.92	11	2,142.41	11	2,504.90	11	2,867.30	11	3,229.66	11	3,592.01
1/4	339.92	1/4	702.39	1/4	1,063.84	1/4	1,424.98	1/4	1,787.47	1/4	2,149.96	1/4	2,512.45	1/4	2,874.85	1/4	3,237.21	1/4	3,599.56
1/2	347.47	1/2	709.94	1/2	1,071.34	1/2	1,432.53	1/2	1,795.02	1/2	2,157.51	1/2	2,520.00	1/2	2,882.40	1/2	3,244.76	1/2	3,607.11
3/4	355.02	3/4	717.50	3/4	1,078.84	3/4	1,440.08	3/4	1,802.57	3/4	2,165.06	3/4	2,527.55	3/4	2,889.95	3/4	3,252.30	3/4	3,614.66

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'-09" OFF CENTERLINE AND 42'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "HSM 1002"

1 STBD
INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09"

N	10 FT.	N	11 FT.	N	12 FT.	N	13 FT.	N	14 FT.	N	15 FT.	N	16 FT.	N	17 FT.	N	18 FT.	N	19 FT.
0	3,622.21	0	3,984.57	0	4,346.92	0	4,704.45	0	5,043.77	0		0		0		0		0	
1/4	3,629.76	1/4	3,992.12	1/4	4,354.47	1/4	4,711.71	1/4	5,050.58	1/4		1/4		1/4		1/4		1/4	
1/2	3,637.31	1/2	3,999.67	1/2	4,362.02	1/2	4,718.98	1/2	5,057.39	1/2		1/2		1/2		1/2		1/2	
3/4	3,644.86	3/4	4,007.21	3/4	4,369.57	3/4	4,726.24	3/4	5,064.19	3/4		3/4		3/4		3/4		3/4	
1	3,652.41	1	4,014.76	1	4,377.12	1	4,733.51	1	5,071.00	1		1		1		1		1	
1 1/4	3,659.96	1 1/4	4,022.31	1 1/4	4,384.67	1 1/4	4,740.72	1 1/4	5,077.78	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,667.50	1 1/2	4,029.86	1 1/2	4,392.22	1 1/2	4,747.92	1 1/2	5,084.58	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
1 3/4	3,675.05	1 3/4	4,037.41	1 3/4	4,399.77	1 3/4	4,755.13	1 3/4	5,091.34	1 3/4		1 3/4		1 3/4		1 3/4		1 3/4	
2	3,682.60	2	4,044.96	2	4,407.32	2	4,762.34	2	5,098.12	2		2		2		2		2	
2 1/4	3,690.15	2 1/4	4,052.51	2 1/4	4,414.87	2 1/4	4,769.51	2 1/4	5,104.87	2 1/4		2 1/4		2 1/4		2 1/4		2 1/4	
2 1/2	3,697.70	2 1/2	4,060.06	2 1/2	4,422.41	2 1/2	4,776.69	2 1/2	5,111.61	2 1/2		2 1/2		2 1/2		2 1/2		2 1/2	
2 3/4	3,705.25	2 3/4	4,067.61	2 3/4	4,429.96	2 3/4	4,783.87	2 3/4	5,118.36	2 3/4		2 3/4		2 3/4		2 3/4		2 3/4	
3	3,712.80	3	4,075.16	3	4,437.51	3	4,791.04	3	5,125.11	3		3		3		3		3	
3 1/4	3,720.35	3 1/4	4,082.71	3 1/4	4,445.05	3 1/4	4,798.19	3 1/4	5,131.82	3 1/4		3 1/4		3 1/4		3 1/4		3 1/4	
3 1/2	3,727.90	3 1/2	4,090.25	3 1/2	4,452.58	3 1/2	4,805.34	3 1/2	5,138.53	3 1/2		3 1/2		3 1/2		3 1/2		3 1/2	
3 3/4	3,735.45	3 3/4	4,097.80	3 3/4	4,460.12	3 3/4	4,812.48	3 3/4	5,145.24	3 3/4		3 3/4		3 3/4		3 3/4		3 3/4	
4	3,743.00	4	4,105.35	4	4,467.65	4	4,819.63	4	5,151.95	4		4		4		4		4	
4 1/4	3,750.54	4 1/4	4,112.90	4 1/4	4,475.16	4 1/4	4,826.75	4 1/4	5,158.60	4 1/4		4 1/4		4 1/4		4 1/4		4 1/4	
4 1/2	3,758.09	4 1/2	4,120.45	4 1/2	4,482.66	4 1/2	4,833.86	4 1/2	5,165.25	4 1/2		4 1/2		4 1/2		4 1/2		4 1/2	
4 3/4	3,765.64	4 3/4	4,128.00	4 3/4	4,490.17	4 3/4	4,840.98	4 3/4	5,171.91	4 3/4		4 3/4		4 3/4		4 3/4		4 3/4	
5	3,773.19	5	4,135.55	5	4,497.67	5	4,848.10	5	5,178.56	5		5		5		5		5	
5 1/4	3,780.74	5 1/4	4,143.10	5 1/4	4,505.15	5 1/4	4,855.18	5 1/4	5,184.59	5 1/4		5 1/4		5 1/4		5 1/4		5 1/4	
5 1/2	3,788.29	5 1/2	4,150.65	5 1/2	4,512.62	5 1/2	4,862.27	5 1/2	5,190.62	5 1/2		5 1/2		5 1/2		5 1/2		5 1/2	
5 3/4	3,795.84	5 3/4	4,158.20	5 3/4	4,520.09	5 3/4	4,869.36	5 3/4	5,196.64	5 3/4		5 3/4		5 3/4		5 3/4		5 3/4	
6	3,803.39	6	4,165.75	6	4,527.57	6	4,876.45	6	5,202.67	6		6		6		6		6	
6 1/4	3,810.94	6 1/4	4,173.29	6 1/4	4,535.01	6 1/4	4,883.50	6 1/4	5,208.23	6 1/4		6 1/4		6 1/4		6 1/4		6 1/4	
6 1/2	3,818.49	6 1/2	4,180.84	6 1/2	4,542.46	6 1/2	4,890.56	6 1/2	5,213.80	6 1/2		6 1/2		6 1/2		6 1/2		6 1/2	
6 3/4	3,826.04	6 3/4	4,188.39	6 3/4	4,549.90	6 3/4	4,897.62	6 3/4	5,219.36	6 3/4		6 3/4		6 3/4		6 3/4		6 3/4	
7	3,833.58	7	4,195.94	7	4,557.35	7	4,904.67	7	5,224.92	7		7		7		7		7	
7 1/4	3,841.13	7 1/4	4,203.49	7 1/4	4,564.76	7 1/4	4,911.70	7 1/4	5,229.25	7 1/4		7 1/4		7 1/4		7 1/4		7 1/4	
7 1/2	3,848.68	7 1/2	4,211.04	7 1/2	4,572.18	7 1/2	4,918.73	7 1/2	5,233.58	7 1/2		7 1/2		7 1/2		7 1/2		7 1/2	
7 3/4	3,856.23	7 3/4	4,218.59	7 3/4	4,579.59	7 3/4	4,925.76	7 3/4	5,237.92	7 3/4		7 3/4		7 3/4		7 3/4		7 3/4	
8	3,863.78	8	4,226.14	8	4,587.01	8	4,932.78	8	5,242.25	8		8		8		8		8	
8 1/4	3,871.33	8 1/4	4,233.69	8 1/4	4,594.39	8 1/4	4,939.78	8 1/4		8 1/4		8 1/4		8 1/4		8 1/4		8 1/4	
8 1/2	3,878.88	8 1/2	4,241.24	8 1/2	4,601.78	8 1/2	4,946.78	8 1/2		8 1/2		8 1/2		8 1/2		8 1/2		8 1/2	
8 3/4	3,886.43	8 3/4	4,248.79	8 3/4	4,609.16	8 3/4	4,953.78	8 3/4		8 3/4		8 3/4		8 3/4		8 3/4		8 3/4	
9	3,893.98	9	4,256.33	9	4,616.55	9	4,960.77	9		9		9		9		9		9	
9 1/4	3,901.53	9 1/4	4,263.88	9 1/4	4,623.90	9 1/4	4,967.74	9 1/4		9 1/4		9 1/4		9 1/4		9 1/4		9 1/4	
9 1/2	3,909.08	9 1/2	4,271.43	9 1/2	4,631.26	9 1/2	4,974.71	9 1/2		9 1/2		9 1/2		9 1/2		9 1/2		9 1/2	
9 3/4	3,916.63	9 3/4	4,278.98	9 3/4	4,638.61	9 3/4	4,981.68	9 3/4		9 3/4		9 3/4		9 3/4		9 3/4		9 3/4	
10	3,924.17	10	4,286.53	10	4,645.97	10	4,988.65	10		10		10		10		10		10	
10 1/4	3,931.72	10 1/4	4,294.08	10 1/4	4,653.29	10 1/4	4,995.59	10 1/4		10 1/4		10 1/4		10 1/4		10 1/4		10 1/4	
10 1/2	3,939.27	10 1/2	4,301.63	10 1/2	4,660.62	10 1/2	5,002.53	10 1/2		10 1/2		10 1/2		10 1/2		10 1/2		10 1/2	
10 3/4	3,946.82	10 3/4	4,309.18	10 3/4	4,667.94	10 3/4	5,009.47	10 3/4		10 3/4		10 3/4		10 3/4		10 3/4		10 3/4	
11	3,954.37	11	4,316.73	11	4,675.27	11	5,016.41	11		11		11		11		11		11	
11 1/4	3,961.92	11 1/4	4,324.28	11 1/4	4,682.56	11 1/4	5,023.25	11 1/4		11 1/4		11 1/4		11 1/4		11 1/4		11 1/4	
11 1/2	3,969.47	11 1/2	4,331.83	11 1/2	4,689.86	11 1/2	5,030.09	11 1/2		11 1/2		11 1/2		11 1/2		11 1/2		11 1/2	
11 3/4	3,977.02	11 3/4	4,339.37	11 3/4	4,697.15	11 3/4	5,036.93	11 3/4		11 3/4		11 3/4		11 3/4		11 3/4		11 3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/31/2013 CL
CALCULATED: 11/01/2013 CL
PRINTED: 11/02/2013 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2013

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



BARGE "HSM 1002"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 3/4"

N	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	22.89	0	361.49	0	722.88	0	1,084.03	0	1,445.18	0	1,806.58	0	2,167.99	0	2,529.39	0	2,890.69	0	3,251.96
1/4	27.28	1/4	369.01	1/4	730.41	1/4	1,091.54	1/4	1,452.71	1/4	1,814.11	1/4	2,175.51	1/4	2,536.92	1/4	2,898.22	1/4	3,259.49
1/2	31.67	1/2	376.54	1/2	737.94	1/2	1,099.06	1/2	1,460.24	1/2	1,821.64	1/2	2,183.04	1/2	2,544.45	1/2	2,905.74	1/2	3,267.02
3/4	36.06	3/4	384.07	3/4	745.46	3/4	1,106.58	3/4	1,467.77	3/4	1,829.17	3/4	2,190.57	3/4	2,551.97	3/4	2,913.27	3/4	3,274.54
1	40.45	1	391.60	1	752.99	1	1,114.09	1	1,475.30	1	1,836.70	1	2,198.10	1	2,559.50	1	2,920.80	1	3,282.07
1 1/4	46.09	1 1/4	399.13	1 1/4	760.52	1 1/4	1,121.61	1 1/4	1,482.83	1 1/4	1,844.23	1 1/4	2,205.63	1 1/4	2,567.03	1 1/4	2,928.32	1 1/4	3,289.60
1 1/2	51.74	1 1/2	406.66	1 1/2	768.05	1 1/2	1,129.13	1 1/2	1,490.36	1 1/2	1,851.76	1 1/2	2,213.16	1 1/2	2,574.56	1 1/2	2,935.85	1 1/2	3,297.12
1 3/4	57.39	1 3/4	414.19	1 3/4	775.58	1 3/4	1,136.65	1 3/4	1,497.89	1 3/4	1,859.29	1 3/4	2,220.69	1 3/4	2,582.09	1 3/4	2,943.38	1 3/4	3,304.65
2	63.03	2	421.72	2	783.11	2	1,144.16	2	1,505.42	2	1,866.82	2	2,228.22	2	2,589.62	2	2,950.90	2	3,312.18
2 1/4	69.93	2 1/4	429.25	2 1/4	790.64	2 1/4	1,151.68	2 1/4	1,512.95	2 1/4	1,874.35	2 1/4	2,235.75	2 1/4	2,597.15	2 1/4	2,958.43	2 1/4	3,319.70
2 1/2	76.83	2 1/2	436.78	2 1/2	798.17	2 1/2	1,159.20	2 1/2	1,520.47	2 1/2	1,881.88	2 1/2	2,243.28	2 1/2	2,604.68	2 1/2	2,965.96	2 1/2	3,327.23
2 3/4	83.73	2 3/4	444.30	2 3/4	805.70	2 3/4	1,166.71	2 3/4	1,528.00	2 3/4	1,889.41	2 3/4	2,250.81	2 3/4	2,612.21	2 3/4	2,973.48	2 3/4	3,334.76
3	90.63	3	451.83	3	813.23	3	1,174.23	3	1,535.53	3	1,896.93	3	2,258.34	3	2,619.74	3	2,981.01	3	3,342.28
3 1/4	98.12	3 1/4	459.36	3 1/4	820.75	3 1/4	1,181.75	3 1/4	1,543.06	3 1/4	1,904.46	3 1/4	2,265.87	3 1/4	2,627.26	3 1/4	2,988.54	3 1/4	3,349.81
3 1/2	105.62	3 1/2	466.89	3 1/2	828.28	3 1/2	1,189.26	3 1/2	1,550.59	3 1/2	1,911.99	3 1/2	2,273.39	3 1/2	2,634.79	3 1/2	2,996.06	3 1/2	3,357.33
3 3/4	113.11	3 3/4	474.42	3 3/4	835.81	3 3/4	1,196.78	3 3/4	1,558.12	3 3/4	1,919.52	3 3/4	2,280.92	3 3/4	2,642.32	3 3/4	3,003.59	3 3/4	3,364.86
4	120.60	4	481.95	4	843.34	4	1,204.30	4	1,565.65	4	1,927.05	4	2,288.45	4	2,649.84	4	3,011.12	4	3,372.39
4 1/4	128.12	4 1/4	489.48	4 1/4	850.87	4 1/4	1,211.81	4 1/4	1,573.18	4 1/4	1,934.58	4 1/4	2,295.98	4 1/4	2,657.37	4 1/4	3,018.64	4 1/4	3,379.91
4 1/2	135.64	4 1/2	497.01	4 1/2	858.40	4 1/2	1,219.33	4 1/2	1,580.71	4 1/2	1,942.11	4 1/2	2,303.51	4 1/2	2,664.90	4 1/2	3,026.17	4 1/2	3,387.44
4 3/4	143.16	4 3/4	504.54	4 3/4	865.93	4 3/4	1,226.85	4 3/4	1,588.24	4 3/4	1,949.64	4 3/4	2,311.04	4 3/4	2,672.42	4 3/4	3,033.70	4 3/4	3,394.97
5	150.68	5	512.07	5	873.46	5	1,234.37	5	1,595.77	5	1,957.17	5	2,318.57	5	2,679.95	5	3,041.22	5	3,402.49
5 1/4	158.21	5 1/4	519.59	5 1/4	880.99	5 1/4	1,241.89	5 1/4	1,603.30	5 1/4	1,964.70	5 1/4	2,326.10	5 1/4	2,687.48	5 1/4	3,048.75	5 1/4	3,410.02
5 1/2	165.73	5 1/2	527.12	5 1/2	888.52	5 1/2	1,249.42	5 1/2	1,610.83	5 1/2	1,972.23	5 1/2	2,333.63	5 1/2	2,695.00	5 1/2	3,056.27	5 1/2	3,417.55
5 3/4	173.26	5 3/4	534.65	5 3/4	896.04	5 3/4	1,256.95	5 3/4	1,618.35	5 3/4	1,979.76	5 3/4	2,341.16	5 3/4	2,702.53	5 3/4	3,063.80	5 3/4	3,425.07
6	180.79	6	542.18	6	903.57	6	1,264.48	6	1,625.88	6	1,987.29	6	2,348.69	6	2,710.06	6	3,071.33	6	3,432.60
6 1/4	188.32	6 1/4	549.71	6 1/4	911.10	6 1/4	1,272.01	6 1/4	1,633.41	6 1/4	1,994.81	6 1/4	2,356.22	6 1/4	2,717.58	6 1/4	3,078.85	6 1/4	3,440.13
6 1/2	195.85	6 1/2	557.24	6 1/2	918.63	6 1/2	1,279.54	6 1/2	1,640.94	6 1/2	2,002.34	6 1/2	2,363.74	6 1/2	2,725.11	6 1/2	3,086.38	6 1/2	3,447.65
6 3/4	203.38	6 3/4	564.77	6 3/4	926.16	6 3/4	1,287.07	6 3/4	1,648.47	6 3/4	2,009.87	6 3/4	2,371.27	6 3/4	2,732.64	6 3/4	3,093.91	6 3/4	3,455.18
7	210.91	7	572.30	7	933.69	7	1,294.60	7	1,656.00	7	2,017.40	7	2,378.80	7	2,740.16	7	3,101.43	7	3,462.71
7 1/4	218.43	7 1/4	579.83	7 1/4	941.21	7 1/4	1,302.13	7 1/4	1,663.53	7 1/4	2,024.93	7 1/4	2,386.33	7 1/4	2,747.69	7 1/4	3,108.96	7 1/4	3,470.23
7 1/2	225.96	7 1/2	587.36	7 1/2	948.72	7 1/2	1,309.66	7 1/2	1,671.06	7 1/2	2,032.46	7 1/2	2,393.86	7 1/2	2,755.21	7 1/2	3,116.49	7 1/2	3,477.76
7 3/4	233.49	7 3/4	594.89	7 3/4	956.24	7 3/4	1,317.19	7 3/4	1,678.59	7 3/4	2,039.99	7 3/4	2,401.39	7 3/4	2,762.74	7 3/4	3,124.01	7 3/4	3,485.29
8	241.02	8	602.41	8	963.76	8	1,324.72	8	1,686.12	8	2,047.52	8	2,408.92	8	2,770.27	8	3,131.54	8	3,492.81
8 1/4	248.55	8 1/4	609.94	8 1/4	971.27	8 1/4	1,332.24	8 1/4	1,693.65	8 1/4	2,055.05	8 1/4	2,416.45	8 1/4	2,777.79	8 1/4	3,139.07	8 1/4	3,500.34
8 1/2	256.08	8 1/2	617.47	8 1/2	978.79	8 1/2	1,339.77	8 1/2	1,701.18	8 1/2	2,062.58	8 1/2	2,423.98	8 1/2	2,785.32	8 1/2	3,146.59	8 1/2	3,507.86
8 3/4	263.61	8 3/4	625.00	8 3/4	986.31	8 3/4	1,347.30	8 3/4	1,708.70	8 3/4	2,070.11	8 3/4	2,431.51	8 3/4	2,792.85	8 3/4	3,154.12	8 3/4	3,515.39
9	271.14	9	632.53	9	993.82	9	1,354.83	9	1,716.23	9	2,077.64	9	2,439.04	9	2,800.37	9	3,161.65	9	3,522.92
9 1/4	278.67	9 1/4	640.06	9 1/4	1,001.34	9 1/4	1,362.36	9 1/4	1,723.76	9 1/4	2,085.16	9 1/4	2,446.57	9 1/4	2,807.90	9 1/4	3,169.17	9 1/4	3,530.44
9 1/2	286.20	9 1/2	647.59	9 1/2	1,008.86	9 1/2	1,369.89	9 1/2	1,731.29	9 1/2	2,092.69	9 1/2	2,454.10	9 1/2	2,815.43	9 1/2	3,176.70	9 1/2	3,537.97
9 3/4	293.72	9 3/4	655.12	9 3/4	1,016.37	9 3/4	1,377.42	9 3/4	1,738.82	9 3/4	2,100.22	9 3/4	2,461.62	9 3/4	2,822.95	9 3/4	3,184.23	9 3/4	3,545.50
10	301.25	10	662.65	10	1,023.89	10	1,384.95	10	1,746.35	10	2,107.75	10	2,469.15	10	2,830.48	10	3,191.75	10	3,553.02
10 1/4	308.78	10 1/4	670.17	10 1/4	1,031.41	10 1/4	1,392.48	10 1/4	1,753.88	10 1/4	2,115.28	10 1/4	2,476.68	10 1/4	2,838.01	10 1/4	3,199.28	10 1/4	3,560.55
10 1/2	316.31	10 1/2	677.70	10 1/2	1,038.93	10 1/2	1,400.01	10 1/2	1,761.41	10 1/2	2,122.81	10 1/2	2,484.21	10 1/2	2,845.53	10 1/2	3,206.80	10 1/2	3,568.08
10 3/4	323.84	10 3/4	685.23	10 3/4	1,046.44	10 3/4	1,407.54	10 3/4	1,768.94	10 3/4	2,130.34	10 3/4	2,491.74	10 3/4	2,853.06	10 3/4	3,214.33	10 3/4	3,575.60
11	331.37	11	692.76	11	1,053.96	11	1,415.07	11	1,776.47	11	2,137.87	11	2,499.27	11	2,860.59	11	3,221.86	11	3,583.13
11 1/4	338.90	11 1/4	700.29	11 1/4	1,061.48	11 1/4	1,422.60	11 1/4	1,784.00	11 1/4	2,145.40	11 1/4	2,506.80	11 1/4	2,868.11	11 1/4	3,229.38	11 1/4	3,590.66
11 1/2	346.43	11 1/2	707.82	11 1/2	1,068.99	11 1/2	1,430.12	11 1/2	1,791.53	11 1/2	2,152.93	11 1/2	2,514.33	11 1/2	2,875.64	11 1/2	3,236.91	11 1/2	3,598.18
11 3/4	353.96	11 3/4	715.35	11 3/4	1,076.51	11 3/4	1,437.65	11 3/4	1,799.06	11 3/4	2,160.46	11 3/4	2,521.86	11 3/4	2,883.17	11 3/4	3,244.44	11 3/4	3,605.71

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'-09" OFF CENTERLINE AND 42'-00" FORWARD OF AFT BULKHEAD.

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

Paul J. Pearson



BARGE "HSM 1002"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 3/4"

N	10 FT.	N	11 FT.	N	12 FT.	N	13 FT.	N	14 FT.	N	15 FT.	N	16 FT.	N	17 FT.	N	18 FT.	N	19 FT.
0	3,613.24	0	3,974.51	0	4,335.78	0	4,692.23	0	5,030.55	0		0		0		0		0	
14	3,620.76	14	3,982.03	14	4,343.31	14	4,699.48	14	5,037.34	14		14		14		14		14	
12	3,628.29	12	3,989.56	12	4,350.83	12	4,706.72	12	5,044.13	12		12		12		12		12	
34	3,635.82	34	3,997.09	34	4,358.36	34	4,713.97	34	5,050.92	34		34		34		34		34	
1	3,643.34	1	4,004.61	1	4,365.89	1	4,721.21	1	5,057.71	1		1		1		1		1	
14	3,650.87	14	4,012.14	14	4,373.41	14	4,728.40	14	5,064.47	14		14		14		14		14	
12	3,658.39	12	4,019.67	12	4,380.94	12	4,735.58	12	5,071.23	12		12		12		12		12	
34	3,665.92	34	4,027.19	34	4,388.47	34	4,742.77	34	5,077.99	34		34		34		34		34	
2	3,673.45	2	4,034.72	2	4,395.99	2	4,749.95	2	5,084.74	2		2		2		2		2	
14	3,680.97	14	4,042.25	14	4,403.52	14	4,757.11	14	5,091.47	14		14		14		14		14	
12	3,688.50	12	4,049.77	12	4,411.04	12	4,764.26	12	5,098.20	12		12		12		12		12	
34	3,696.03	34	4,057.30	34	4,418.57	34	4,771.42	34	5,104.93	34		34		34		34		34	
3	3,703.55	3	4,064.83	3	4,426.10	3	4,778.57	3	5,111.66	3		3		3		3		3	
14	3,711.08	14	4,072.35	14	4,433.61	14	4,785.70	14	5,118.35	14		14		14		14		14	
12	3,718.61	12	4,079.88	12	4,441.12	12	4,792.82	12	5,125.04	12		12		12		12		12	
34	3,726.13	34	4,087.41	34	4,448.63	34	4,799.95	34	5,131.72	34		34		34		34		34	
4	3,733.66	4	4,094.93	4	4,456.15	4	4,807.07	4	5,138.41	4		4		4		4		4	
14	3,741.19	14	4,102.46	14	4,463.63	14	4,814.17	14	5,145.05	14		14		14		14		14	
12	3,748.71	12	4,109.98	12	4,471.11	12	4,821.27	12	5,151.68	12		12		12		12		12	
34	3,756.24	34	4,117.51	34	4,478.59	34	4,828.36	34	5,158.32	34		34		34		34		34	
5	3,763.77	5	4,125.04	5	4,486.07	5	4,835.46	5	5,164.95	5		5		5		5		5	
14	3,771.29	14	4,132.56	14	4,493.53	14	4,842.52	14	5,170.96	14		14		14		14		14	
12	3,778.82	12	4,140.09	12	4,500.98	12	4,849.59	12	5,176.97	12		12		12		12		12	
34	3,786.35	34	4,147.62	34	4,508.43	34	4,856.66	34	5,182.98	34		34		34		34		34	
6	3,793.87	6	4,155.14	6	4,515.88	6	4,863.72	6	5,188.99	6		6		6		6		6	
14	3,801.40	14	4,162.67	14	4,523.30	14	4,870.76	14	5,194.54	14		14		14		14		14	
12	3,808.92	12	4,170.20	12	4,530.73	12	4,877.80	12	5,200.08	12		12		12		12		12	
34	3,816.45	34	4,177.72	34	4,538.15	34	4,884.83	34	5,205.63	34		34		34		34		34	
7	3,823.98	7	4,185.25	7	4,545.57	7	4,891.87	7	5,211.17	7		7		7		7		7	
14	3,831.50	14	4,192.78	14	4,552.96	14	4,898.87	14	5,215.49	14		14		14		14		14	
12	3,839.03	12	4,200.30	12	4,560.36	12	4,905.88	12	5,219.81	12		12		12		12		12	
34	3,846.56	34	4,207.83	34	4,567.75	34	4,912.89	34	5,224.13	34		34		34		34		34	
8	3,854.08	8	4,215.36	8	4,575.14	8	4,919.89	8	5,228.45	8		8		8		8		8	
14	3,861.61	14	4,222.88	14	4,582.50	14	4,926.87	14		14		14		14		14		14	
12	3,869.14	12	4,230.41	12	4,589.87	12	4,933.85	12		12		12		12		12		12	
34	3,876.66	34	4,237.94	34	4,597.23	34	4,940.83	34		34		34		34		34		34	
9	3,884.19	9	4,245.46	9	4,604.59	9	4,947.80	9		9		9		9		9		9	
14	3,891.72	14	4,252.99	14	4,611.93	14	4,954.75	14		14		14		14		14		14	
12	3,899.24	12	4,260.51	12	4,619.26	12	4,961.70	12		12		12		12		12		12	
34	3,906.77	34	4,268.04	34	4,626.59	34	4,968.65	34		34		34		34		34		34	
10	3,914.30	10	4,275.57	10	4,633.93	10	4,975.60	10		10		10		10		10		10	
14	3,921.82	14	4,283.09	14	4,641.23	14	4,982.52	14		14		14		14		14		14	
12	3,929.35	12	4,290.62	12	4,648.53	12	4,989.44	12		12		12		12		12		12	
34	3,936.88	34	4,298.15	34	4,655.84	34	4,996.36	34		34		34		34		34		34	
11	3,944.40	11	4,305.67	11	4,663.14	11	5,003.28	11		11		11		11		11		11	
14	3,951.93	14	4,313.20	14	4,670.41	14	5,010.10	14		14		14		14		14		14	
12	3,959.45	12	4,320.73	12	4,677.69	12	5,016.92	12		12		12		12		12		12	
34	3,966.98	34	4,328.25	34	4,684.96	34	5,023.74	34		34		34		34		34		34	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/31/2013 CL
CALCULATED: 11/01/2013 CL
PRINTED: 11/02/2013 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2013

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



BARGE "HSM 1002"

2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 3/4"

N	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	22.89	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
14	27.28	14	369.01	14	730.41	14	1,083.27	14	1,436.83	14	1,798.23	14	2,159.64	14	2,521.05	14	2,882.35	14	3,243.62
12	31.67	12	376.54	12	737.93	12	1,090.45	12	1,444.38	12	1,805.76	12	2,167.17	12	2,528.58	12	2,889.88	12	3,251.15
34	36.06	34	384.07	34	745.46	34	1,097.64	34	1,451.89	34	1,813.29	34	2,174.70	34	2,536.10	34	2,897.40	34	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
14	46.09	14	399.13	14	760.52	14	1,112.01	14	1,466.94	14	1,828.35	14	2,189.76	14	2,551.16	14	2,912.45	14	3,273.73
12	51.74	12	406.66	12	768.05	12	1,119.20	12	1,474.47	12	1,835.88	12	2,197.29	12	2,558.69	12	2,919.98	12	3,281.25
34	57.39	34	414.19	34	775.58	34	1,126.38	34	1,482.00	34	1,843.41	34	2,204.82	34	2,566.22	34	2,927.51	34	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
14	69.93	14	429.25	14	790.64	14	1,140.75	14	1,497.06	14	1,858.47	14	2,219.87	14	2,581.28	14	2,942.56	14	3,303.83
12	76.83	12	436.77	12	798.17	12	1,147.94	12	1,504.59	12	1,866.00	12	2,227.40	12	2,588.81	12	2,950.09	12	3,311.36
34	83.73	34	444.30	34	805.70	34	1,155.13	34	1,512.12	34	1,873.53	34	2,234.93	34	2,596.34	34	2,957.61	34	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
14	98.12	14	459.36	14	820.75	14	1,169.50	14	1,527.18	14	1,888.58	14	2,249.99	14	2,611.39	14	2,972.67	14	3,333.94
12	105.82	12	466.89	12	828.28	12	1,176.68	12	1,534.71	12	1,896.11	12	2,257.52	12	2,618.92	12	2,980.19	12	3,341.47
34	113.11	34	474.42	34	835.81	34	1,183.87	34	1,542.24	34	1,903.64	34	2,265.05	34	2,626.45	34	2,987.72	34	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
14	128.12	14	489.48	14	850.87	14	1,198.24	14	1,557.30	14	1,918.70	14	2,280.11	14	2,641.50	14	3,002.77	14	3,364.04
12	135.64	12	497.01	12	858.40	12	1,205.43	12	1,564.82	12	1,926.23	12	2,287.64	12	2,649.03	12	3,010.30	12	3,371.57
34	143.16	34	504.54	34	865.93	34	1,212.61	34	1,572.35	34	1,933.76	34	2,295.17	34	2,656.55	34	3,017.83	34	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
14	158.21	14	519.59	14	880.99	14	1,227.00	14	1,587.41	14	1,948.82	14	2,310.23	14	2,671.61	14	3,032.88	14	3,394.15
12	165.73	12	527.12	12	888.51	12	1,234.20	12	1,594.94	12	1,956.35	12	2,317.75	12	2,679.13	12	3,040.41	12	3,401.68
34	173.26	34	534.65	34	896.04	34	1,241.40	34	1,602.47	34	1,963.88	34	2,325.28	34	2,686.66	34	3,047.93	34	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
14	188.32	14	549.71	14	910.77	14	1,256.12	14	1,617.53	14	1,978.94	14	2,340.34	14	2,701.71	14	3,062.98	14	3,424.26
12	195.85	12	557.24	12	917.97	12	1,263.65	12	1,625.06	12	1,986.47	12	2,347.87	12	2,709.24	12	3,070.51	12	3,431.78
34	203.38	34	564.77	34	925.16	34	1,271.18	34	1,632.59	34	1,994.00	34	2,355.40	34	2,716.77	34	3,078.04	34	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
14	218.43	14	579.83	14	939.55	14	1,286.24	14	1,647.65	14	2,009.05	14	2,370.46	14	2,731.82	14	3,093.09	14	3,454.36
12	225.96	12	587.35	12	946.73	12	1,293.77	12	1,655.18	12	2,016.58	12	2,377.99	12	2,739.35	12	3,100.62	12	3,461.89
34	233.49	34	594.88	34	953.92	34	1,301.30	34	1,662.71	34	2,024.11	34	2,385.52	34	2,746.87	34	3,108.14	34	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
14	248.55	14	609.94	14	968.29	14	1,316.36	14	1,677.76	14	2,039.17	14	2,400.58	14	2,761.92	14	3,123.20	14	3,484.47
12	256.08	12	617.47	12	975.48	12	1,323.89	12	1,685.29	12	2,046.70	12	2,408.11	12	2,769.45	12	3,130.72	12	3,492.00
34	263.61	34	625.00	34	982.66	34	1,331.42	34	1,692.82	34	2,054.23	34	2,415.64	34	2,776.98	34	3,138.25	34	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
14	278.67	14	640.06	14	997.03	14	1,346.48	14	1,707.88	14	2,069.29	14	2,430.69	14	2,792.03	14	3,153.30	14	3,514.57
12	286.19	12	647.59	12	1,004.22	12	1,354.00	12	1,715.41	12	2,076.82	12	2,438.22	12	2,799.56	12	3,160.83	12	3,522.10
34	293.72	34	655.12	34	1,011.41	34	1,361.53	34	1,722.94	34	2,084.35	34	2,445.75	34	2,807.08	34	3,168.36	34	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
14	308.78	14	670.17	14	1,025.78	14	1,376.59	14	1,738.00	14	2,099.41	14	2,460.81	14	2,822.14	14	3,183.41	14	3,544.68
12	316.31	12	677.70	12	1,032.96	12	1,384.12	12	1,745.53	12	2,106.93	12	2,468.34	12	2,829.66	12	3,190.94	12	3,552.21
34	323.84	34	685.23	34	1,040.15	34	1,391.65	34	1,753.06	34	2,114.46	34	2,475.87	34	2,837.19	34	3,198.46	34	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
14	338.90	14	700.29	14	1,054.52	14	1,406.71	14	1,768.12	14	2,129.52	14	2,490.93	14	2,852.24	14	3,213.51	14	3,574.79
12	346.43	12	707.82	12	1,061.71	12	1,414.24	12	1,775.65	12	2,137.05	12	2,498.46	12	2,859.77	12	3,221.04	12	3,582.31
34	353.96	34	715.35	34	1,068.89	34	1,421.77	34	1,783.17	34	2,144.58	34	2,505.99	34	2,867.30	34	3,228.57	34	3,589.84

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'-09" OFF CENTERLINE AND 42'-00" FORWARD OF AFT BULKHEAD.

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

Paul J. Pearson



BARGE "HSM 1002"

2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 3/4"

N	10 FT.	N	11 FT.	N	12 FT.	N	13 FT.	N	14 FT.	N	15 FT.	N	16 FT.	N	17 FT.	N	18 FT.	N	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	
14	3,604.89	14	3,966.16	14	4,327.44	14	4,683.59	14	5,021.46	14		14		14		14		14	
12	3,612.42	12	3,973.69	12	4,334.96	12	4,690.84	12	5,028.25	12		12		12		12		12	
34	3,619.95	34	3,981.22	34	4,342.49	34	4,698.08	34	5,035.04	34		34		34		34		34	
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	
14	3,635.00	14	3,996.27	14	4,357.54	14	4,712.51	14	5,048.59	14		14		14		14		14	
12	3,642.53	12	4,003.80	12	4,365.07	12	4,719.70	12	5,055.34	12		12		12		12		12	
34	3,650.05	34	4,011.32	34	4,372.60	34	4,726.88	34	5,062.10	34		34		34		34		34	
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	
14	3,665.10	14	4,026.38	14	4,387.65	14	4,741.22	14	5,075.59	14		14		14		14		14	
12	3,672.63	12	4,033.90	12	4,395.18	12	4,748.38	12	5,082.32	12		12		12		12		12	
34	3,680.16	34	4,041.43	34	4,402.70	34	4,755.53	34	5,089.05	34		34		34		34		34	
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	
14	3,695.21	14	4,056.48	14	4,417.74	14	4,769.81	14	5,102.46	14		14		14		14		14	
12	3,702.74	12	4,064.01	12	4,425.24	12	4,776.94	12	5,109.15	12		12		12		12		12	
34	3,710.26	34	4,071.54	34	4,432.75	34	4,784.06	34	5,115.84	34		34		34		34		34	
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	
14	3,725.32	14	4,086.59	14	4,447.74	14	4,798.29	14	5,129.17	14		14		14		14		14	
12	3,732.84	12	4,094.12	12	4,455.22	12	4,805.38	12	5,135.80	12		12		12		12		12	
34	3,740.37	34	4,101.64	34	4,462.71	34	4,812.48	34	5,142.43	34		34		34		34		34	
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	
14	3,755.42	14	4,116.69	14	4,477.64	14	4,826.64	14	5,155.08	14		14		14		14		14	
12	3,762.95	12	4,124.22	12	4,485.09	12	4,833.71	12	5,161.09	12		12		12		12		12	
34	3,770.48	34	4,131.75	34	4,492.54	34	4,840.77	34	5,167.10	34		34		34		34		34	
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	
14	3,785.53	14	4,146.80	14	4,507.42	14	4,854.87	14	5,178.66	14		14		14		14		14	
12	3,793.06	12	4,154.33	12	4,514.84	12	4,861.91	12	5,184.20	12		12		12		12		12	
34	3,800.58	34	4,161.85	34	4,522.26	34	4,868.95	34	5,189.75	34		34		34		34		34	
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	
14	3,815.63	14	4,176.91	14	4,537.08	14	4,882.99	14	5,199.61	14		14		14		14		14	
12	3,823.16	12	4,184.43	12	4,544.47	12	4,890.00	12	5,203.93	12		12		12		12		12	
34	3,830.69	34	4,191.96	34	4,551.88	34	4,897.00	34	5,208.25	34		34		34		34		34	
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	
14	3,845.74	14	4,207.01	14	4,566.62	14	4,910.99	14		14		14		14		14		14	
12	3,853.27	12	4,214.54	12	4,573.98	12	4,917.96	12		12		12		12		12		12	
34	3,860.79	34	4,222.07	34	4,581.35	34	4,924.94	34		34		34		34		34		34	
9	3,868.32	9	4,229.59	9	4,588.71	9	4,931.92	9		9		9		9		9		9	
14	3,875.85	14	4,237.12	14	4,596.04	14	4,938.87	14		14		14		14		14		14	
12	3,883.37	12	4,244.65	12	4,603.37	12	4,945.82	12		12		12		12		12		12	
34	3,890.90	34	4,252.17	34	4,610.71	34	4,952.77	34		34		34		34		34		34	
10	3,898.43	10	4,259.70	10	4,618.04	10	4,959.72	10		10		10		10		10		10	
14	3,905.95	14	4,267.22	14	4,625.34	14	4,966.64	14		14		14		14		14		14	
12	3,913.48	12	4,274.75	12	4,632.65	12	4,973.58	12		12		12		12		12		12	
34	3,921.01	34	4,282.28	34	4,639.95	34	4,980.48	34		34		34		34		34		34	
11	3,928.53	11	4,289.80	11	4,647.25	11	4,987.40	11		11		11		11		11		11	
14	3,936.06	14	4,297.33	14	4,654.53	14	4,994.21	14		14		14		14		14		14	
12	3,943.59	12	4,304.86	12	4,661.80	12	5,001.03	12		12		12		12		12		12	
34	3,951.11	34	4,312.38	34	4,669.08	34	5,007.85	34		34		34		34		34		34	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/31/2013 CL
CALCULATED: 11/01/2013 CL
PRINTED: 11/02/2013 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2013

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



BARGE "HSM 1002"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/2"

N	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	22.80	0	360.02	0	719.94	0	1,079.65	0	1,439.42	0	1,799.35	0	2,159.26	0	2,519.11	0	2,878.77	0	3,237.52
14	27.17	14	367.52	14	727.43	14	1,087.14	14	1,446.92	14	1,806.85	14	2,166.76	14	2,526.61	14	2,886.25	14	3,244.97
12	31.54	12	375.01	12	734.93	12	1,094.63	12	1,454.42	12	1,814.35	12	2,174.25	12	2,534.10	12	2,893.73	12	3,252.42
34	35.92	34	382.51	34	742.43	34	1,102.12	34	1,461.92	34	1,821.85	34	2,181.75	34	2,541.60	34	2,901.21	34	3,259.87
1	40.29	1	390.01	1	749.93	1	1,109.61	1	1,469.42	1	1,829.35	1	2,189.25	1	2,549.10	1	2,908.70	1	3,267.32
14	45.91	14	397.51	14	757.43	14	1,117.10	14	1,476.91	14	1,836.85	14	2,196.74	14	2,556.60	14	2,916.18	14	3,274.77
12	51.53	12	405.01	12	764.92	12	1,124.59	12	1,484.41	12	1,844.35	12	2,204.24	12	2,564.09	12	2,923.66	12	3,282.21
34	57.16	34	412.50	34	772.42	34	1,132.08	34	1,491.91	34	1,851.84	34	2,211.74	34	2,571.59	34	2,931.14	34	3,289.66
2	62.78	2	420.00	2	779.92	2	1,139.56	2	1,499.41	2	1,859.34	2	2,219.24	2	2,579.09	2	2,938.63	2	3,297.11
14	69.65	14	427.50	14	787.42	14	1,147.05	14	1,506.91	14	1,866.84	14	2,226.73	14	2,586.58	14	2,946.11	14	3,304.56
12	76.52	12	435.00	12	794.92	12	1,154.54	12	1,514.41	12	1,874.34	12	2,234.23	12	2,594.08	12	2,953.59	12	3,312.01
34	83.39	34	442.50	34	802.42	34	1,162.03	34	1,521.91	34	1,881.84	34	2,241.73	34	2,601.59	34	2,961.07	34	3,319.46
3	90.27	3	450.00	3	809.91	3	1,169.52	3	1,529.40	3	1,889.34	3	2,249.22	3	2,609.07	3	2,968.56	3	3,326.90
14	97.73	14	457.49	14	817.41	14	1,177.01	14	1,536.90	14	1,896.84	14	2,256.72	14	2,616.57	14	2,976.04	14	3,334.37
12	105.19	12	464.99	12	824.91	12	1,184.50	12	1,544.40	12	1,904.33	12	2,264.22	12	2,624.06	12	2,983.52	12	3,341.83
34	112.65	34	472.49	34	832.41	34	1,191.99	34	1,551.90	34	1,911.83	34	2,271.71	34	2,631.58	34	2,991.01	34	3,349.30
4	120.12	4	479.99	4	839.91	4	1,199.48	4	1,559.40	4	1,919.33	4	2,279.21	4	2,639.06	4	2,998.49	4	3,356.76
14	127.61	14	487.49	14	847.41	14	1,206.97	14	1,566.90	14	1,926.83	14	2,286.71	14	2,646.55	14	3,005.97	14	3,364.22
12	135.09	12	494.99	12	854.90	12	1,214.47	12	1,574.40	12	1,934.33	12	2,294.20	12	2,654.05	12	3,013.45	12	3,371.69
34	142.58	34	502.48	34	862.40	34	1,221.97	34	1,581.89	34	1,941.83	34	2,301.70	34	2,661.54	34	3,020.94	34	3,379.15
5	150.07	5	509.98	5	869.90	5	1,229.46	5	1,589.39	5	1,949.33	5	2,309.20	5	2,669.04	5	3,028.42	5	3,386.62
14	157.57	14	517.48	14	877.40	14	1,236.96	14	1,596.89	14	1,956.82	14	2,316.69	14	2,676.53	14	3,035.90	14	3,394.08
12	165.06	12	524.98	12	884.90	12	1,244.46	12	1,604.39	12	1,964.32	12	2,324.19	12	2,684.03	12	3,043.38	12	3,401.55
34	172.56	34	532.48	34	892.40	34	1,251.96	34	1,611.89	34	1,971.82	34	2,331.69	34	2,691.52	34	3,050.87	34	3,409.01
6	180.06	6	539.98	6	899.89	6	1,259.46	6	1,619.39	6	1,979.32	6	2,339.19	6	2,699.02	6	3,058.35	6	3,416.47
14	187.56	14	547.47	14	907.39	14	1,266.95	14	1,626.89	14	1,986.82	14	2,346.68	14	2,706.52	14	3,065.83	14	3,423.94
12	195.05	12	554.97	12	914.88	12	1,274.45	12	1,634.39	12	1,994.32	12	2,354.18	12	2,714.01	12	3,073.32	12	3,431.40
34	202.55	34	562.47	34	922.37	34	1,281.95	34	1,641.88	34	2,001.82	34	2,361.68	34	2,721.51	34	3,080.80	34	3,438.87
7	210.05	7	569.97	7	929.87	7	1,289.45	7	1,649.38	7	2,009.32	7	2,369.17	7	2,729.00	7	3,088.28	7	3,446.33
14	217.55	14	577.47	14	937.36	14	1,296.95	14	1,656.88	14	2,016.81	14	2,376.67	14	2,736.50	14	3,095.76	14	3,453.79
12	225.05	12	584.97	12	944.85	12	1,304.45	12	1,664.38	12	2,024.31	12	2,384.17	12	2,743.99	12	3,103.25	12	3,461.26
34	232.55	34	592.46	34	952.33	34	1,311.95	34	1,671.88	34	2,031.81	34	2,391.66	34	2,751.49	34	3,110.73	34	3,468.72
8	240.04	8	599.96	8	959.82	8	1,319.44	8	1,679.38	8	2,039.31	8	2,399.16	8	2,758.98	8	3,118.21	8	3,476.19
14	247.54	14	607.46	14	967.31	14	1,326.94	14	1,686.88	14	2,046.81	14	2,406.66	14	2,766.48	14	3,125.69	14	3,483.65
12	255.04	12	614.96	12	974.80	12	1,334.44	12	1,694.37	12	2,054.30	12	2,414.15	12	2,773.98	12	3,133.18	12	3,491.11
34	262.54	34	622.46	34	982.29	34	1,341.94	34	1,701.87	34	2,061.80	34	2,421.65	34	2,781.48	34	3,140.66	34	3,498.58
9	270.04	9	629.96	9	989.78	9	1,349.44	9	1,709.37	9	2,069.30	9	2,429.15	9	2,788.97	9	3,148.14	9	3,506.04
14	277.54	14	637.45	14	997.27	14	1,356.94	14	1,716.87	14	2,076.79	14	2,436.65	14	2,796.46	14	3,155.59	14	3,510.07
12	285.03	12	644.95	12	1,004.76	12	1,364.44	12	1,724.37	12	2,084.29	12	2,444.14	12	2,803.94	12	3,163.04	12	3,514.11
34	292.53	34	652.45	34	1,012.25	34	1,371.93	34	1,731.87	34	2,091.79	34	2,451.64	34	2,811.42	34	3,170.49	34	3,518.14
10	300.03	10	659.95	10	1,019.74	10	1,379.43	10	1,739.37	10	2,099.28	10	2,459.14	10	2,818.90	10	3,177.94	10	3,522.17
14	307.53	14	667.45	14	1,027.23	14	1,386.93	14	1,746.86	14	2,106.78	14	2,466.63	14	2,826.39	14	3,185.38	14	3,526.20
12	315.03	12	674.95	12	1,034.72	12	1,394.43	12	1,754.36	12	2,114.28	12	2,474.13	12	2,833.87	12	3,192.83	12	3,530.24
34	322.53	34	682.44	34	1,042.21	34	1,401.93	34	1,761.86	34	2,121.78	34	2,481.63	34	2,841.35	34	3,200.28	34	3,534.27
11	330.02	11	689.94	11	1,049.69	11	1,409.43	11	1,769.36	11	2,129.27	11	2,489.12	11	2,848.83	11	3,207.73	11	3,538.30
14	337.52	14	697.44	14	1,057.18	14	1,416.93	14	1,776.86	14	2,136.77	14	2,496.62	14	2,856.32	14	3,215.18	14	3,542.33
12	345.02	12	704.94	12	1,064.67	12	1,424.42	12	1,784.36	12	2,144.27	12	2,504.12	12	2,863.80	12	3,222.63	12	3,546.37
34	352.52	34	712.44	34	1,072.16	34	1,431.92	34	1,791.86	34	2,151.76	34	2,511.61	34	2,871.28	34	3,230.07	34	3,550.40

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 27.
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'-09" OFF CENTERLINE AND 55'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "HSM 1002"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/2"

N	10 FT.	N	11 FT.	N	12 FT.	N	13 FT.	N	14 FT.	N	15 FT.	N	16 FT.	N	17 FT.	N	18 FT.	N	19 FT.
0	3,554.43	0	3,747.99	0	3,941.54	0	4,132.52	0	4,313.84	0		0		0		0		0	
1/4	3,558.46	1/4	3,752.02	1/4	3,945.57	1/4	4,136.40	1/4	4,317.48	1/4		1/4		1/4		1/4		1/4	
1/2	3,562.50	1/2	3,756.05	1/2	3,949.61	1/2	4,140.28	1/2	4,321.12	1/2		1/2		1/2		1/2		1/2	
3/4	3,566.53	3/4	3,760.08	3/4	3,953.64	3/4	4,144.17	3/4	4,324.75	3/4		3/4		3/4		3/4		3/4	
1	3,570.56	1	3,764.12	1	3,957.67	1	4,148.05	1	4,328.39	1		1		1		1		1	
1 1/4	3,574.59	1 1/4	3,768.15	1 1/4	3,961.70	1 1/4	4,151.90	1 1/4	4,332.01	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,578.63	1 1/2	3,772.18	1 1/2	3,965.74	1 1/2	4,155.75	1 1/2	4,335.64	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
1 3/4	3,582.66	1 3/4	3,776.21	1 3/4	3,969.77	1 3/4	4,159.60	1 3/4	4,339.26	1 3/4		1 3/4		1 3/4		1 3/4		1 3/4	
2	3,586.69	2	3,780.25	2	3,973.80	2	4,163.45	2	4,342.88	2		2		2		2		2	
2 1/4	3,590.72	2 1/4	3,784.28	2 1/4	3,977.83	2 1/4	4,167.29	2 1/4	4,346.48	2 1/4		2 1/4		2 1/4		2 1/4		2 1/4	
2 1/2	3,594.76	2 1/2	3,788.31	2 1/2	3,981.87	2 1/2	4,171.12	2 1/2	4,350.09	2 1/2		2 1/2		2 1/2		2 1/2		2 1/2	
2 3/4	3,598.79	2 3/4	3,792.34	2 3/4	3,985.90	2 3/4	4,174.96	2 3/4	4,353.69	2 3/4		2 3/4		2 3/4		2 3/4		2 3/4	
3	3,602.82	3	3,796.38	3	3,989.93	3	4,178.79	3	4,357.30	3		3		3		3		3	
3 1/4	3,606.85	3 1/4	3,800.41	3 1/4	3,993.95	3 1/4	4,182.61	3 1/4	4,360.88	3 1/4		3 1/4		3 1/4		3 1/4		3 1/4	
3 1/2	3,610.88	3 1/2	3,804.44	3 1/2	3,997.98	3 1/2	4,186.43	3 1/2	4,364.46	3 1/2		3 1/2		3 1/2		3 1/2		3 1/2	
3 3/4	3,614.92	3 3/4	3,808.47	3 3/4	4,002.00	3 3/4	4,190.25	3 3/4	4,368.04	3 3/4		3 3/4		3 3/4		3 3/4		3 3/4	
4	3,618.95	4	3,812.50	4	4,006.03	4	4,194.07	4	4,371.62	4		4		4		4		4	
4 1/4	3,622.98	4 1/4	3,816.54	4 1/4	4,010.04	4 1/4	4,197.87	4 1/4	4,375.16	4 1/4		4 1/4		4 1/4		4 1/4		4 1/4	
4 1/2	3,627.01	4 1/2	3,820.57	4 1/2	4,014.04	4 1/2	4,201.68	4 1/2	4,378.69	4 1/2		4 1/2		4 1/2		4 1/2		4 1/2	
4 3/4	3,631.05	4 3/4	3,824.60	4 3/4	4,018.05	4 3/4	4,205.48	4 3/4	4,382.23	4 3/4		4 3/4		4 3/4		4 3/4		4 3/4	
5	3,635.08	5	3,828.63	5	4,022.06	5	4,209.28	5	4,385.77	5		5		5		5		5	
5 1/4	3,639.11	5 1/4	3,832.67	5 1/4	4,026.05	5 1/4	4,213.07	5 1/4	4,388.70	5 1/4		5 1/4		5 1/4		5 1/4		5 1/4	
5 1/2	3,643.14	5 1/2	3,836.70	5 1/2	4,030.05	5 1/2	4,216.86	5 1/2	4,391.64	5 1/2		5 1/2		5 1/2		5 1/2		5 1/2	
5 3/4	3,647.18	5 3/4	3,840.73	5 3/4	4,034.04	5 3/4	4,220.64	5 3/4	4,394.57	5 3/4		5 3/4		5 3/4		5 3/4		5 3/4	
6	3,651.21	6	3,844.76	6	4,038.03	6	4,224.43	6	4,397.50	6		6		6		6		6	
6 1/4	3,655.24	6 1/4	3,848.80	6 1/4	4,042.01	6 1/4	4,228.20	6 1/4	4,399.61	6 1/4		6 1/4		6 1/4		6 1/4		6 1/4	
6 1/2	3,659.27	6 1/2	3,852.83	6 1/2	4,045.99	6 1/2	4,231.97	6 1/2	4,401.71	6 1/2		6 1/2		6 1/2		6 1/2		6 1/2	
6 3/4	3,663.31	6 3/4	3,856.86	6 3/4	4,049.96	6 3/4	4,235.75	6 3/4	4,403.82	6 3/4		6 3/4		6 3/4		6 3/4		6 3/4	
7	3,667.34	7	3,860.89	7	4,053.94	7	4,239.52	7	4,405.92	7		7		7		7		7	
7 1/4	3,671.37	7 1/4	3,864.93	7 1/4	4,057.90	7 1/4	4,243.27	7 1/4	4,408.79	7 1/4		7 1/4		7 1/4		7 1/4		7 1/4	
7 1/2	3,675.40	7 1/2	3,868.96	7 1/2	4,061.86	7 1/2	4,247.03	7 1/2	4,407.66	7 1/2		7 1/2		7 1/2		7 1/2		7 1/2	
7 3/4	3,679.44	7 3/4	3,872.99	7 3/4	4,065.82	7 3/4	4,250.78	7 3/4	4,408.53	7 3/4		7 3/4		7 3/4		7 3/4		7 3/4	
8	3,683.47	8	3,877.02	8	4,069.78	8	4,254.54	8	4,409.40	8		8		8		8		8	
8 1/4	3,687.50	8 1/4	3,881.06	8 1/4	4,073.73	8 1/4	4,258.28	8 1/4		8 1/4		8 1/4		8 1/4		8 1/4		8 1/4	
8 1/2	3,691.53	8 1/2	3,885.09	8 1/2	4,077.67	8 1/2	4,262.02	8 1/2		8 1/2		8 1/2		8 1/2		8 1/2		8 1/2	
8 3/4	3,695.57	8 3/4	3,889.12	8 3/4	4,081.62	8 3/4	4,265.76	8 3/4		8 3/4		8 3/4		8 3/4		8 3/4		8 3/4	
9	3,699.60	9	3,893.15	9	4,085.56	9	4,269.50	9		9		9		9		9		9	
9 1/4	3,703.63	9 1/4	3,897.19	9 1/4	4,089.49	9 1/4	4,273.22	9 1/4		9 1/4		9 1/4		9 1/4		9 1/4		9 1/4	
9 1/2	3,707.66	9 1/2	3,901.22	9 1/2	4,093.42	9 1/2	4,276.95	9 1/2		9 1/2		9 1/2		9 1/2		9 1/2		9 1/2	
9 3/4	3,711.69	9 3/4	3,905.25	9 3/4	4,097.35	9 3/4	4,280.67	9 3/4		9 3/4		9 3/4		9 3/4		9 3/4		9 3/4	
10	3,715.73	10	3,909.28	10	4,101.28	10	4,284.39	10		10		10		10		10		10	
10 1/4	3,719.76	10 1/4	3,913.31	10 1/4	4,105.19	10 1/4	4,288.10	10 1/4		10 1/4		10 1/4		10 1/4		10 1/4		10 1/4	
10 1/2	3,723.79	10 1/2	3,917.35	10 1/2	4,109.11	10 1/2	4,291.81	10 1/2		10 1/2		10 1/2		10 1/2		10 1/2		10 1/2	
10 3/4	3,727.82	10 3/4	3,921.38	10 3/4	4,113.02	10 3/4	4,295.52	10 3/4		10 3/4		10 3/4		10 3/4		10 3/4		10 3/4	
11	3,731.86	11	3,925.41	11	4,116.93	11	4,299.23	11		11		11		11		11		11	
11 1/4	3,735.89	11 1/4	3,929.44	11 1/4	4,120.83	11 1/4	4,302.88	11 1/4		11 1/4		11 1/4		11 1/4		11 1/4		11 1/4	
11 1/2	3,739.92	11 1/2	3,933.48	11 1/2	4,124.73	11 1/2	4,306.53	11 1/2		11 1/2		11 1/2		11 1/2		11 1/2		11 1/2	
11 3/4	3,743.95	11 3/4	3,937.51	11 3/4	4,128.62	11 3/4	4,310.19	11 3/4		11 3/4		11 3/4		11 3/4		11 3/4		11 3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/31/2013 CL
CALCULATED: 11/01/2013 CL
PRINTED: 11/02/2013 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2013

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



BARGE "HSM 1002"

3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/4"

N	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	22.80	0	359.49	0	718.85	0	1,066.49	0	1,419.40	0	1,778.17	0	2,137.40	0	2,496.58	0	2,855.56	0	3,213.47
1/4	27.17	1/4	366.98	1/4	726.34	1/4	1,073.64	1/4	1,426.83	1/4	1,785.66	1/4	2,144.89	1/4	2,504.07	1/4	2,863.03	1/4	3,220.90
1/2	31.54	1/2	374.47	1/2	733.83	1/2	1,080.79	1/2	1,434.25	1/2	1,793.14	1/2	2,152.37	1/2	2,511.55	1/2	2,870.50	1/2	3,228.34
3/4	35.92	3/4	381.95	3/4	741.31	3/4	1,087.94	3/4	1,441.67	3/4	1,800.62	3/4	2,159.85	3/4	2,519.03	3/4	2,877.97	3/4	3,235.77
1	40.29	1	389.44	1	748.80	1	1,095.09	1	1,449.09	1	1,808.11	1	2,167.34	1	2,526.51	1	2,885.44	1	3,243.20
1 1/4	45.90	1 1/4	396.93	1 1/4	756.29	1 1/4	1,102.24	1 1/4	1,456.52	1 1/4	1,815.59	1 1/4	2,174.82	1 1/4	2,534.00	1 1/4	2,892.90	1 1/4	3,250.64
1 1/2	51.51	1 1/2	404.41	1 1/2	763.78	1 1/2	1,109.39	1 1/2	1,463.94	1 1/2	1,823.08	1 1/2	2,182.30	1 1/2	2,541.48	1 1/2	2,900.36	1 1/2	3,258.07
1 3/4	57.12	1 3/4	411.90	1 3/4	771.26	1 3/4	1,116.54	1 3/4	1,471.36	1 3/4	1,830.56	1 3/4	2,189.78	1 3/4	2,548.96	1 3/4	2,907.82	1 3/4	3,265.51
2	62.74	2	419.39	2	778.75	2	1,123.69	2	1,478.79	2	1,838.05	2	2,197.27	2	2,556.45	2	2,915.28	2	3,272.94
2 1/4	69.59	2 1/4	426.87	2 1/4	786.24	2 1/4	1,130.83	2 1/4	1,486.27	2 1/4	1,845.53	2 1/4	2,204.75	2 1/4	2,563.93	2 1/4	2,922.74	2 1/4	3,280.38
2 1/2	76.44	2 1/2	434.36	2 1/2	793.72	2 1/2	1,137.98	2 1/2	1,493.76	2 1/2	1,853.02	2 1/2	2,212.23	2 1/2	2,571.41	2 1/2	2,930.20	2 1/2	3,287.81
2 3/4	83.28	2 3/4	441.85	2 3/4	801.21	2 3/4	1,145.13	2 3/4	1,501.24	2 3/4	1,860.50	2 3/4	2,219.72	2 3/4	2,578.90	2 3/4	2,937.66	2 3/4	3,295.25
3	90.13	3	449.33	3	808.70	3	1,152.28	3	1,508.72	3	1,867.99	3	2,227.20	3	2,586.38	3	2,945.12	3	3,302.68
3 1/4	97.59	3 1/4	456.82	3 1/4	815.90	3 1/4	1,159.71	3 1/4	1,516.21	3 1/4	1,875.47	3 1/4	2,234.68	3 1/4	2,593.86	3 1/4	2,952.59	3 1/4	3,310.13
3 1/2	105.04	3 1/2	464.31	3 1/2	823.10	3 1/2	1,167.15	3 1/2	1,523.69	3 1/2	1,882.95	3 1/2	2,242.16	3 1/2	2,601.34	3 1/2	2,960.05	3 1/2	3,317.58
3 3/4	112.49	3 3/4	471.79	3 3/4	830.30	3 3/4	1,174.58	3 3/4	1,531.18	3 3/4	1,890.44	3 3/4	2,249.65	3 3/4	2,608.82	3 3/4	2,967.51	3 3/4	3,325.03
4	119.94	4	479.28	4	837.51	4	1,182.01	4	1,538.66	4	1,897.92	4	2,257.13	4	2,616.30	4	2,974.97	4	3,332.48
4 1/4	127.42	4 1/4	486.77	4 1/4	844.68	4 1/4	1,189.42	4 1/4	1,546.15	4 1/4	1,905.41	4 1/4	2,264.61	4 1/4	2,623.78	4 1/4	2,982.43	4 1/4	3,339.93
4 1/2	134.91	4 1/2	494.25	4 1/2	851.86	4 1/2	1,196.82	4 1/2	1,553.63	4 1/2	1,912.89	4 1/2	2,272.10	4 1/2	2,631.27	4 1/2	2,989.89	4 1/2	3,347.38
4 3/4	142.39	4 3/4	501.74	4 3/4	859.03	4 3/4	1,204.22	4 3/4	1,561.12	4 3/4	1,920.38	4 3/4	2,279.58	4 3/4	2,638.75	4 3/4	2,997.35	4 3/4	3,354.83
5	149.87	5	509.23	5	866.20	5	1,211.63	5	1,568.60	5	1,927.86	5	2,287.06	5	2,646.23	5	3,004.81	5	3,362.28
5 1/4	157.36	5 1/4	516.71	5 1/4	873.38	5 1/4	1,219.03	5 1/4	1,576.09	5 1/4	1,935.35	5 1/4	2,294.54	5 1/4	2,653.71	5 1/4	3,012.27	5 1/4	3,369.73
5 1/2	164.84	5 1/2	524.20	5 1/2	880.55	5 1/2	1,226.44	5 1/2	1,583.57	5 1/2	1,942.83	5 1/2	2,302.03	5 1/2	2,661.19	5 1/2	3,019.74	5 1/2	3,377.18
5 3/4	172.33	5 3/4	531.69	5 3/4	887.73	5 3/4	1,233.85	5 3/4	1,591.06	5 3/4	1,950.32	5 3/4	2,309.51	5 3/4	2,668.67	5 3/4	3,027.20	5 3/4	3,384.63
6	179.81	6	539.17	6	894.90	6	1,241.25	6	1,598.54	6	1,957.80	6	2,316.99	6	2,676.15	6	3,034.66	6	3,392.08
6 1/4	187.30	6 1/4	546.66	6 1/4	902.06	6 1/4	1,248.68	6 1/4	1,606.02	6 1/4	1,965.29	6 1/4	2,324.48	6 1/4	2,683.63	6 1/4	3,042.12	6 1/4	3,399.53
6 1/2	194.79	6 1/2	554.15	6 1/2	909.21	6 1/2	1,256.10	6 1/2	1,613.51	6 1/2	1,972.77	6 1/2	2,331.96	6 1/2	2,691.12	6 1/2	3,049.58	6 1/2	3,406.98
6 3/4	202.27	6 3/4	561.63	6 3/4	916.36	6 3/4	1,263.52	6 3/4	1,620.99	6 3/4	1,980.25	6 3/4	2,339.44	6 3/4	2,698.60	6 3/4	3,057.04	6 3/4	3,414.43
7	209.76	7	569.12	7	923.51	7	1,270.95	7	1,628.48	7	1,987.74	7	2,346.93	7	2,706.08	7	3,064.50	7	3,421.88
7 1/4	217.25	7 1/4	576.61	7 1/4	930.66	7 1/4	1,278.37	7 1/4	1,635.96	7 1/4	1,995.22	7 1/4	2,354.41	7 1/4	2,713.56	7 1/4	3,071.97	7 1/4	3,429.33
7 1/2	224.73	7 1/2	584.09	7 1/2	937.81	7 1/2	1,285.79	7 1/2	1,643.45	7 1/2	2,002.71	7 1/2	2,361.89	7 1/2	2,721.04	7 1/2	3,079.44	7 1/2	3,436.78
7 3/4	232.22	7 3/4	591.58	7 3/4	944.96	7 3/4	1,293.21	7 3/4	1,650.93	7 3/4	2,010.19	7 3/4	2,369.37	7 3/4	2,728.52	7 3/4	3,086.91	7 3/4	3,444.23
8	239.71	8	599.07	8	952.11	8	1,300.64	8	1,658.42	8	2,017.68	8	2,376.86	8	2,736.00	8	3,094.38	8	3,451.68
8 1/4	247.19	8 1/4	606.55	8 1/4	959.26	8 1/4	1,308.06	8 1/4	1,665.90	8 1/4	2,025.16	8 1/4	2,384.34	8 1/4	2,743.49	8 1/4	3,101.85	8 1/4	3,459.13
8 1/2	254.68	8 1/2	614.04	8 1/2	966.41	8 1/2	1,315.48	8 1/2	1,673.39	8 1/2	2,032.64	8 1/2	2,391.82	8 1/2	2,750.97	8 1/2	3,109.32	8 1/2	3,466.58
8 3/4	262.17	8 3/4	621.53	8 3/4	973.55	8 3/4	1,322.91	8 3/4	1,680.87	8 3/4	2,040.13	8 3/4	2,399.31	8 3/4	2,758.45	8 3/4	3,116.78	8 3/4	3,474.03
9	269.65	9	629.01	9	980.70	9	1,330.33	9	1,688.36	9	2,047.61	9	2,406.79	9	2,765.94	9	3,124.25	9	3,481.48
9 1/4	277.14	9 1/4	636.50	9 1/4	987.85	9 1/4	1,337.75	9 1/4	1,695.84	9 1/4	2,055.09	9 1/4	2,414.27	9 1/4	2,773.41	9 1/4	3,131.69	9 1/4	3,488.90
9 1/2	284.63	9 1/2	643.99	9 1/2	995.00	9 1/2	1,345.17	9 1/2	1,703.32	9 1/2	2,062.58	9 1/2	2,421.75	9 1/2	2,780.87	9 1/2	3,139.12	9 1/2	3,496.32
9 3/4	292.11	9 3/4	651.47	9 3/4	1,002.15	9 3/4	1,352.60	9 3/4	1,710.81	9 3/4	2,070.06	9 3/4	2,429.24	9 3/4	2,788.34	9 3/4	3,146.56	9 3/4	3,493.54
10	299.60	10	658.96	10	1,009.30	10	1,360.02	10	1,718.29	10	2,077.54	10	2,436.72	10	2,795.81	10	3,153.99	10	3,497.55
10 1/4	307.09	10 1/4	666.45	10 1/4	1,016.45	10 1/4	1,367.44	10 1/4	1,725.78	10 1/4	2,085.02	10 1/4	2,444.20	10 1/4	2,803.28	10 1/4	3,161.43	10 1/4	3,501.57
10 1/2	314.57	10 1/2	673.93	10 1/2	1,023.60	10 1/2	1,374.87	10 1/2	1,733.26	10 1/2	2,092.51	10 1/2	2,451.69	10 1/2	2,810.75	10 1/2	3,168.86	10 1/2	3,505.59
10 3/4	322.06	10 3/4	681.42	10 3/4	1,030.75	10 3/4	1,382.29	10 3/4	1,740.75	10 3/4	2,099.99	10 3/4	2,459.17	10 3/4	2,818.22	10 3/4	3,176.29	10 3/4	3,509.61
11	329.55	11	688.91	11	1,037.90	11	1,389.71	11	1,748.23	11	2,107.47	11	2,466.65	11	2,825.69	11	3,183.73	11	3,513.63
11 1/4	337.03	11 1/4	696.39	11 1/4	1,045.05	11 1/4	1,397.13	11 1/4	1,755.72	11 1/4	2,114.96	11 1/4	2,474.13	11 1/4	2,833.16	11 1/4	3,191.16	11 1/4	3,517.65
11 1/2	344.52	11 1/2	703.88	11 1/2	1,052.19	11 1/2	1,404.56	11 1/2	1,763.20	11 1/2	2,122.44	11 1/2	2,481.62	11 1/2	2,841.62	11 1/2	3,198.60	11 1/2	3,521.66
11 3/4	352.01	11 3/4	711.37	11 3/4	1,059.34	11 3/4	1,411.98	11 3/4	1,770.69	11 3/4	2,129.92	11 3/4	2,489.10	11 3/4	2,848.09	11 3/4	3,206.03	11 3/4	3,525.68

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'-09" OFF CENTERLINE AND 65'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77568
<http://www.pmacorp.net>



BARGE "HSM 1002"

3 STBD
INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/4"

N	10 FT.	N	11 FT.	N	12 FT.	N	13 FT.	N	14 FT.	N	15 FT.	N	16 FT.	N	17 FT.	N	18 FT.	N	19 FT.
0	3,529.70	0	3,722.58	0	3,915.47	0	4,105.78	0	4,286.42	0		0		0		0		0	
14	3,533.72	14	3,726.60	14	3,919.49	14	4,109.64	14	4,290.05	14		14		14		14		14	
12	3,537.74	12	3,730.62	12	3,923.50	12	4,113.51	12	4,293.67	12		12		12		12		12	
34	3,541.76	34	3,734.64	34	3,927.52	34	4,117.38	34	4,297.29	34		34		34		34		34	
1	3,545.78	1	3,738.66	1	3,931.54	1	4,121.24	1	4,300.92	1		1		1		1		1	
14	3,549.79	14	3,742.68	14	3,935.56	14	4,125.08	14	4,304.52	14		14		14		14		14	
12	3,553.81	12	3,746.70	12	3,939.58	12	4,128.92	12	4,308.13	12		12		12		12		12	
34	3,557.83	34	3,750.71	34	3,943.60	34	4,132.76	34	4,311.74	34		34		34		34		34	
2	3,561.85	2	3,754.73	2	3,947.62	2	4,136.59	2	4,315.35	2		2		2		2		2	
14	3,565.87	14	3,758.75	14	3,951.63	14	4,140.41	14	4,318.94	14		14		14		14		14	
12	3,569.89	12	3,762.77	12	3,955.65	12	4,144.23	12	4,322.53	12		12		12		12		12	
34	3,573.90	34	3,766.79	34	3,959.67	34	4,148.06	34	4,326.12	34		34		34		34		34	
3	3,577.92	3	3,770.81	3	3,963.69	3	4,151.88	3	4,329.71	3		3		3		3		3	
14	3,581.94	14	3,774.82	14	3,967.70	14	4,155.68	14	4,333.28	14		14		14		14		14	
12	3,585.96	12	3,778.84	12	3,971.71	12	4,159.49	12	4,336.84	12		12		12		12		12	
34	3,589.98	34	3,782.86	34	3,975.72	34	4,163.29	34	4,340.41	34		34		34		34		34	
4	3,594.00	4	3,786.88	4	3,979.73	4	4,167.10	4	4,343.97	4		4		4		4		4	
14	3,598.01	14	3,790.90	14	3,983.72	14	4,170.89	14	4,347.50	14		14		14		14		14	
12	3,602.03	12	3,794.92	12	3,987.72	12	4,174.68	12	4,351.02	12		12		12		12		12	
34	3,606.05	34	3,798.93	34	3,991.71	34	4,178.47	34	4,354.55	34		34		34		34		34	
5	3,610.07	5	3,802.95	5	3,995.71	5	4,182.26	5	4,358.07	5		5		5		5		5	
14	3,614.09	14	3,806.97	14	3,999.69	14	4,186.03	14	4,360.99	14		14		14		14		14	
12	3,618.11	12	3,810.99	12	4,003.66	12	4,189.80	12	4,363.91	12		12		12		12		12	
34	3,622.12	34	3,815.01	34	4,007.64	34	4,193.58	34	4,366.83	34		34		34		34		34	
6	3,626.14	6	3,819.03	6	4,011.62	6	4,197.35	6	4,369.75	6		6		6		6		6	
14	3,630.16	14	3,823.04	14	4,015.58	14	4,201.11	14	4,371.84	14		14		14		14		14	
12	3,634.18	12	3,827.06	12	4,019.55	12	4,204.86	12	4,373.93	12		12		12		12		12	
34	3,638.20	34	3,831.08	34	4,023.51	34	4,208.62	34	4,376.02	34		34		34		34		34	
7	3,642.22	7	3,835.10	7	4,027.47	7	4,212.38	7	4,378.11	7		7		7		7		7	
14	3,646.24	14	3,839.12	14	4,031.42	14	4,216.12	14	4,378.97	14		14		14		14		14	
12	3,650.25	12	3,843.14	12	4,035.37	12	4,219.86	12	4,379.82	12		12		12		12		12	
34	3,654.27	34	3,847.16	34	4,039.31	34	4,223.60	34	4,380.68	34		34		34		34		34	
8	3,658.29	8	3,851.17	8	4,043.26	8	4,227.35	8	4,381.54	8		8		8		8		8	
14	3,662.31	14	3,855.19	14	4,047.19	14	4,231.07	14		14		14		14		14		14	
12	3,666.33	12	3,859.21	12	4,051.12	12	4,234.80	12		12		12		12		12		12	
34	3,670.35	34	3,863.23	34	4,055.05	34	4,238.52	34		34		34		34		34		34	
9	3,674.36	9	3,867.25	9	4,058.98	9	4,242.25	9		9		9		9		9		9	
14	3,678.38	14	3,871.27	14	4,062.90	14	4,245.96	14		14		14		14		14		14	
12	3,682.40	12	3,875.28	12	4,066.81	12	4,249.67	12		12		12		12		12		12	
34	3,686.42	34	3,879.30	34	4,070.73	34	4,253.38	34		34		34		34		34		34	
10	3,690.44	10	3,883.32	10	4,074.65	10	4,257.09	10		10		10		10		10		10	
14	3,694.46	14	3,887.34	14	4,078.54	14	4,260.78	14		14		14		14		14		14	
12	3,698.47	12	3,891.36	12	4,082.44	12	4,264.48	12		12		12		12		12		12	
34	3,702.49	34	3,895.38	34	4,086.34	34	4,268.17	34		34		34		34		34		34	
11	3,706.51	11	3,899.39	11	4,090.24	11	4,271.86	11		11		11		11		11		11	
14	3,710.53	14	3,903.41	14	4,094.13	14	4,275.50	14		14		14		14		14		14	
12	3,714.55	12	3,907.43	12	4,098.01	12	4,279.14	12		12		12		12		12		12	
34	3,718.57	34	3,911.45	34	4,101.89	34	4,282.78	34		34		34		34		34		34	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/31/2013 CL
CALCULATED: 11/01/2013 CL
PRINTED: 11/02/2013 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2013

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