

BARGE "EMS 512"

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	00-0/8	- 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
1 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
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)

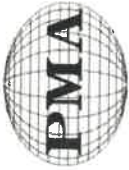
THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 1 PORT IS - 00-1/8"
FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 3'-11 7/8"

LENGTH BETWEEN DRAFT MARKS: 259'-09"

January 25, 2019

PRECISION MEASUREMENT
& ANALYSIS, INC.
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<http://www.pmacorp.net>



BARGE "EMS 512"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

0 FT.			1 FT.			2 FT.			3 FT.			4 FT.			5 FT.			6 FT.			7 FT.			8 FT.			9 FT.		
IN			IN			IN			IN			IN			IN			IN			IN			IN			IN		
0	21.38	0	355.19	0	716.43	0	1,078.69	0	1,440.95	0	1,803.46	0	2,165.97	0	2,528.48	0	2,890.90	0	3,253.27	0	3,615.78	0	3,978.29	0	4,340.80	0	4,703.21	0	5,065.62
1/4	25.61	1/4	362.59	1/4	723.98	1/4	1,086.23	1/4	1,448.50	1/4	1,811.01	1/4	2,173.52	1/4	2,536.04	1/4	2,898.55	1/4	3,261.06	1/4	3,623.57	1/4	3,986.08	1/4	4,348.59	1/4	4,711.10	1/4	5,073.61
1/2	29.85	1/2	370.00	1/2	731.53	1/2	1,093.77	1/2	1,456.06	1/2	1,818.57	1/2	2,181.08	1/2	2,543.59	1/2	2,905.99	1/2	3,268.37	1/2	3,630.88	1/2	3,993.39	1/2	4,355.90	1/2	4,718.41	1/2	5,080.92
3/4	34.08	3/4	377.09	3/4	739.09	3/4	1,101.31	3/4	1,463.61	3/4	1,826.12	3/4	2,188.63	3/4	2,551.14	3/4	2,913.64	3/4	3,276.15	3/4	3,638.66	3/4	3,999.17	3/4	4,361.68	3/4	4,724.19	3/4	5,086.70
1	38.32	1	384.81	1	746.64	1	1,108.85	1	1,471.16	1	1,833.67	1	2,196.18	1	2,558.69	1	2,921.09	1	3,283.47	1	3,645.98	1	3,999.49	1	4,362.50	1	4,724.71	1	5,087.22
1/4	43.81	1/4	392.21	1/4	754.19	1/4	1,116.39	1/4	1,478.71	1/4	1,841.22	1/4	2,203.73	1/4	2,566.24	1/4	2,928.74	1/4	3,291.02	1/4	3,653.53	1/4	3,999.50	1/4	4,363.51	1/4	4,726.73	1/4	5,089.24
1/2	49.30	1/2	399.61	1/2	761.74	1/2	1,123.93	1/2	1,486.27	1/2	1,848.78	1/2	2,211.29	1/2	2,573.80	1/2	2,936.31	1/2	3,298.57	1/2	3,654.08	1/2	3,999.51	1/2	4,364.52	1/2	4,728.25	1/2	5,090.26
3/4	54.79	3/4	407.02	3/4	768.29	3/4	1,131.47	3/4	1,493.82	3/4	1,856.33	3/4	2,218.84	3/4	2,581.35	3/4	2,943.74	3/4	3,306.12	3/4	3,661.63	3/4	3,999.52	3/4	4,365.53	3/4	4,730.27	3/4	5,091.27
2	60.28	2	414.42	2	776.85	2	1,139.01	2	1,501.37	2	1,863.88	2	2,226.39	2	2,588.90	2	2,951.41	2	3,313.92	2	3,669.43	2	3,999.53	2	4,366.54	2	4,731.28	2	5,092.28
1/4	67.03	1/4	421.96	1/4	784.40	1/4	1,146.55	1/4	1,508.92	1/4	1,871.43	1/4	2,233.94	1/4	2,596.45	1/4	2,958.96	1/4	3,321.47	1/4	3,676.98	1/4	3,999.54	1/4	4,367.55	1/4	4,732.29	1/4	5,093.29
1/2	73.78	1/2	429.49	1/2	791.95	1/2	1,154.09	1/2	1,516.47	1/2	1,878.99	1/2	2,241.50	1/2	2,604.01	1/2	2,966.52	1/2	3,329.03	1/2	3,684.54	1/2	3,999.55	1/2	4,368.56	1/2	4,733.30	1/2	5,094.30
3/4	80.53	3/4	437.02	3/4	799.50	3/4	1,161.63	3/4	1,524.03	3/4	1,886.54	3/4	2,249.05	3/4	2,611.56	3/4	2,973.07	3/4	3,336.58	3/4	3,691.10	3/4	3,999.56	3/4	4,369.57	3/4	4,734.31	3/4	5,095.31
3	87.28	3	444.56	3	807.05	3	1,169.17	3	1,531.58	3	1,894.09	3	2,256.60	3	2,619.11	3	2,981.62	3	3,343.87	3	3,699.13	3	3,999.57	3	4,370.58	3	4,735.32	3	5,096.32
1/4	94.74	1/4	452.11	1/4	814.61	1/4	1,176.71	1/4	1,539.13	1/4	1,901.64	1/4	2,264.15	1/4	2,626.66	1/4	2,989.17	1/4	3,344.68	1/4	3,699.14	1/4	3,999.58	1/4	4,371.59	1/4	4,736.33	1/4	5,097.33
1/2	102.20	1/2	459.66	1/2	822.16	1/2	1,184.25	1/2	1,546.68	1/2	1,909.19	1/2	2,271.70	1/2	2,634.21	1/2	2,999.72	1/2	3,354.23	1/2	3,708.75	1/2	3,999.59	1/2	4,372.60	1/2	4,737.34	1/2	5,098.34
3/4	109.66	3/4	467.21	3/4	829.71	3/4	1,191.79	3/4	1,554.24	3/4	1,916.75	3/4	2,279.26	3/4	2,641.76	3/4	2,999.72	3/4	3,354.23	3/4	3,708.75	3/4	3,999.60	3/4	4,373.61	3/4	4,738.35	3/4	5,099.35
4	117.12	4	474.77	4	837.26	4	1,199.33	4	1,561.79	4	1,924.30	4	2,286.81	4	2,649.31	4	2,999.72	4	3,354.23	4	3,708.75	4	3,999.61	4	4,374.62	4	4,739.36	4	5,100.36
1/4	124.65	1/4	482.32	1/4	844.81	1/4	1,206.87	1/4	1,568.34	1/4	1,931.85	1/4	2,294.36	1/4	2,656.86	1/4	2,999.72	1/4	3,354.23	1/4	3,708.75	1/4	3,999.62	1/4	4,375.63	1/4	4,740.30	1/4	5,101.37
1/2	132.19	1/2	489.87	1/2	852.37	1/2	1,214.41	1/2	1,576.89	1/2	1,939.40	1/2	2,301.91	1/2	2,664.41	1/2	2,999.72	1/2	3,354.23	1/2	3,708.75	1/2	3,999.63	1/2	4,376.64	1/2	4,741.31	1/2	5,102.38
3/4	139.73	3/4	497.42	3/4	859.92	3/4	1,221.95	3/4	1,584.45	3/4	1,946.96	3/4	2,309.47	3/4	2,671.96	3/4	2,999.72	3/4	3,354.23	3/4	3,708.75	3/4	3,999.64	3/4	4,377.65	3/4	4,742.32	3/4	5,103.39
5	147.26	5	504.97	5	867.47	5	1,229.49	5	1,592.00	5	1,954.51	5	2,317.02	5	2,679.51	5	2,999.72	5	3,354.23	5	3,708.75	5	3,999.65	5	4,378.66	5	4,743.33	5	5,104.40
1/4	154.80	1/4	512.53	1/4	875.02	1/4	1,237.04	1/4	1,599.55	1/4	1,962.06	1/4	2,324.57	1/4	2,687.06	1/4	2,999.72	1/4	3,354.23	1/4	3,708.75	1/4	3,999.66	1/4	4,379.67	1/4	4,744.34	1/4	5,105.41
1/2	162.34	1/2	520.08	1/2	882.57	1/2	1,244.59	1/2	1,607.10	1/2	1,969.61	1/2	2,332.12	1/2	2,694.61	1/2	2,999.72	1/2	3,354.23	1/2	3,708.75	1/2	3,999.67	1/2	4,380.68	1/2	4,745.35	1/2	5,106.42
3/4	169.88	3/4	527.63	3/4	890.13	3/4	1,252.15	3/4	1,614.65	3/4	1,977.17	3/4	2,339.68	3/4	2,702.16	3/4	2,999.72	3/4	3,354.23	3/4	3,708.75	3/4	3,999.68	3/4	4,381.69	3/4	4,746.36	3/4	5,107.43
6	177.41	6	535.18	6	897.68	6	1,259.70	6	1,622.21	6	1,984.72	6	2,347.23	6	2,709.71	6	2,999.72	6	3,354.23	6	3,708.75	6	3,999.69	6	4,382.70	6	4,747.37	6	5,108.44
1/4	184.83	1/4	542.73	1/4	905.23	1/4	1,267.25	1/4	1,629.76	1/4	1,992.27	1/4	2,354.78	1/4	2,717.26	1/4	2,999.72	1/4	3,354.23	1/4	3,708.75	1/4	3,999.70	1/4	4,383.71	1/4	4,748.38	1/4	5,109.45
1/2	192.26	1/2	550.29	1/2	912.78	1/2	1,274.80	1/2	1,637.31	1/2	1,999.82	1/2	2,362.33	1/2	2,724.81	1/2	2,999.72	1/2	3,354.23	1/2	3,708.75	1/2	3,999.71	1/2	4,384.72	1/2	4,749.39	1/2	5,110.46
3/4	199.68	3/4	557.84	3/4	920.33	3/4	1,282.35	3/4	1,644.86	3/4	2,007.37	3/4	2,369.88	3/4	2,732.36	3/4	2,999.72	3/4	3,354.23	3/4	3,708.75	3/4	3,999.72	3/4	4,385.73	3/4	4,750.40	3/4	5,111.47
7	207.10	7	565.39	7	927.89	7	1,289.91	7	1,652.42	7	2,014.93	7	2,377.44	7	2,739.90	7	2,999.72	7	3,354.23	7	3,708.75	7	3,999.73	7	4,386.74	7	4,751.41	7	5,112.48
1/4	214.50	1/4	572.94	1/4	935.43	1/4	1,297.46	1/4	1,659.97	1/4	2,022.48	1/4	2,384.99	1/4	2,747.45	1/4	2,999.72	1/4	3,354.23	1/4	3,708.75	1/4	3,999.74	1/4	4,387.75	1/4	4,752.42	1/4	5,113.49
1/2	221.91	1/2	580.49	1/2	942.97	1/2	1,305.01	1/2	1,667.52	1/2	2,030.03	1/2	2,392.54	1/2	2,755.00	1/2	2,999.72	1/2	3,354.23	1/2	3,708.75	1/2	3,999.75	1/2	4,388.76	1/2	4,753.43	1/2	5,114.50
3/4	229.31	3/4	588.05	3/4	950.51	3/4	1,312.56	3/4	1,675.07	3/4	2,037.58	3/4	2,400.09	3/4	2,762.55	3/4	2,999.72	3/4	3,354.23	3/4	3,708.75	3/4	3,999.76	3/4	4,389.77	3/4	4,754.44	3/4	5,115.51
8	236.72	8	595.60	8	958.05	8	1,320.12	8	1,682.63	8	2,045.14	8	2,407.65	8	2,770.10	8	2,999.72	8	3,354.23	8	3,708.75	8	3,999.77	8	4,390.78	8	4,755.45	8	5,116.52
1/4	244.12	1/4	603.15	1/4	965.59	1/4	1,327.67	1/4	1,690.18	1/4	2,052.69	1/4	2,415.20	1/4	2,777.65	1/4	2,999.72	1/4	3,354.23	1/4	3,708.75								



BARGE "EMS 512"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
0	3,615.65	0	3,978.02	0	4,339.71	0	4,687.98	0	5,017.95	0	5,327.35	0	5,622.45	0	5,904.14	0	6,173.43	0	6,430.32
1/4	3,623.20	1/4	3,985.57	1/4	4,347.14	1/4	4,695.41	1/4	5,025.35	1/4	5,334.75	1/4	5,629.85	1/4	5,911.54	1/4	6,180.83	1/4	6,437.72
1/2	3,630.75	1/2	3,993.12	1/2	4,354.69	1/2	4,702.56	1/2	5,032.75	1/2	5,342.15	1/2	5,637.25	1/2	5,924.04	1/2	6,193.33	1/2	6,450.22
3/4	3,638.30	3/4	4,000.67	3/4	4,362.00	3/4	4,710.40	3/4	5,040.14	3/4	5,349.54	3/4	5,644.04	3/4	5,931.73	3/4	6,200.92	3/4	6,462.71
1	3,645.85	1	4,008.22	1	4,369.43	1	4,717.97	1	5,047.54	1	5,356.94	1	5,649.04	1	5,941.73	1	6,208.47	1	6,470.26
1/4	3,653.39	1/4	4,015.77	1/4	4,376.83	1/4	4,725.51	1/4	5,054.99	1/4	5,364.39	1/4	5,656.49	1/4	5,949.18	1/4	6,216.01	1/4	6,477.80
1/2	3,660.94	1/2	4,023.32	1/2	4,384.23	1/2	4,733.95	1/2	5,062.45	1/2	5,371.79	1/2	5,664.04	1/2	5,956.73	1/2	6,223.56	1/2	6,485.34
3/4	3,668.48	3/4	4,030.87	3/4	4,391.63	3/4	4,743.47	3/4	5,069.90	3/4	5,380.19	3/4	5,671.23	3/4	5,964.27	3/4	6,231.10	3/4	6,492.88
2	3,676.04	2	4,038.42	2	4,399.02	2	4,751.09	2	5,077.35	2	5,388.63	2	5,678.77	2	5,971.86	2	6,238.66	2	6,500.42
1/4	3,683.59	1/4	4,045.97	1/4	4,406.39	1/4	4,759.66	1/4	5,084.80	1/4	5,396.13	1/4	5,685.97	1/4	5,979.35	1/4	6,246.15	1/4	6,507.97
1/2	3,691.14	1/2	4,053.52	1/2	4,413.76	1/2	4,768.05	1/2	5,092.25	1/2	5,403.67	1/2	5,693.26	1/2	5,986.84	1/2	6,253.70	1/2	6,515.52
3/4	3,698.69	3/4	4,061.07	3/4	4,421.13	3/4	4,776.24	3/4	5,099.70	3/4	5,411.09	3/4	5,700.37	3/4	5,994.33	3/4	6,261.24	3/4	6,523.06
3	3,706.24	3	4,068.62	3	4,428.50	3	4,784.41	3	5,107.15	3	5,418.63	3	5,709.90	3	6,001.82	3	6,268.79	3	6,530.61
1/4	3,713.79	1/4	4,076.17	1/4	4,435.94	1/4	4,792.99	1/4	5,114.60	1/4	5,426.17	1/4	5,717.44	1/4	6,009.36	1/4	6,276.33	1/4	6,538.16
1/2	3,721.34	1/2	4,083.72	1/2	4,443.47	1/2	4,801.58	1/2	5,122.06	1/2	5,433.70	1/2	5,724.96	1/2	6,016.85	1/2	6,283.86	1/2	6,545.71
3/4	3,728.89	3/4	4,091.27	3/4	4,450.91	3/4	4,809.07	3/4	5,129.51	3/4	5,441.02	3/4	5,732.28	3/4	6,024.37	3/4	6,291.39	3/4	6,553.26
4	3,736.44	4	4,098.82	4	4,458.44	4	4,816.62	4	5,136.96	4	5,448.54	4	5,739.80	4	6,031.89	4	6,298.91	4	6,560.81
1/4	3,743.99	1/4	4,106.36	1/4	4,465.97	1/4	4,824.15	1/4	5,144.41	1/4	5,456.06	1/4	5,747.21	1/4	6,039.38	1/4	6,306.43	1/4	6,568.36
1/2	3,751.54	1/2	4,113.91	1/2	4,473.50	1/2	4,832.70	1/2	5,151.86	1/2	5,463.59	1/2	5,754.76	1/2	6,046.87	1/2	6,313.95	1/2	6,575.90
3/4	3,759.09	3/4	4,121.46	3/4	4,481.03	3/4	4,840.29	3/4	5,159.31	3/4	5,471.12	3/4	5,762.01	3/4	6,054.36	3/4	6,321.48	3/4	6,583.44
5	3,766.64	5	4,129.01	5	4,488.56	5	4,848.88	5	5,166.76	5	5,478.64	5	5,769.53	5	6,061.85	5	6,329.00	5	6,590.98
1/4	3,774.19	1/4	4,136.56	1/4	4,496.09	1/4	4,856.41	1/4	5,174.08	1/4	5,486.17	1/4	5,777.06	1/4	6,069.38	1/4	6,336.53	1/4	6,598.53
1/2	3,781.74	1/2	4,144.11	1/2	4,503.62	1/2	4,864.99	1/2	5,181.39	1/2	5,493.70	1/2	5,784.59	1/2	6,076.89	1/2	6,344.07	1/2	6,606.08
3/4	3,789.29	3/4	4,151.66	3/4	4,511.15	3/4	4,873.58	3/4	5,188.71	3/4	5,501.21	3/4	5,791.90	3/4	6,084.38	3/4	6,351.60	3/4	6,613.63
6	3,796.84	6	4,159.21	6	4,518.68	6	4,881.17	6	5,196.02	6	5,508.74	6	5,799.63	6	6,091.93	6	6,359.13	6	6,621.18
1/4	3,804.38	1/4	4,166.76	1/4	4,526.21	1/4	4,888.77	1/4	5,203.35	1/4	5,516.06	1/4	5,806.95	1/4	6,100.02	1/4	6,366.66	1/4	6,628.73
1/2	3,811.93	1/2	4,174.31	1/2	4,534.74	1/2	4,896.32	1/2	5,208.68	1/2	5,521.39	1/2	5,812.28	1/2	6,107.55	1/2	6,374.19	1/2	6,636.28
3/4	3,819.48	3/4	4,181.86	3/4	4,542.27	3/4	4,907.89	3/4	5,215.01	3/4	5,528.90	3/4	5,819.79	3/4	6,115.04	3/4	6,381.74	3/4	6,643.83
7	3,827.03	7	4,189.41	7	4,549.81	7	4,915.42	7	5,221.34	7	5,534.23	7	5,826.12	7	6,122.57	7	6,389.29	7	6,651.38
1/4	3,834.58	1/4	4,196.96	1/4	4,557.36	1/4	4,923.97	1/4	5,226.46	1/4	5,539.36	1/4	5,832.25	1/4	6,129.70	1/4	6,396.84	1/4	6,658.93
1/2	3,842.13	1/2	4,204.51	1/2	4,564.89	1/2	4,931.58	1/2	5,231.57	1/2	5,544.49	1/2	5,837.38	1/2	6,137.25	1/2	6,404.39	1/2	6,666.48
3/4	3,849.68	3/4	4,212.06	3/4	4,572.42	3/4	4,939.19	3/4	5,236.69	3/4	5,549.60	3/4	5,842.49	3/4	6,144.80	3/4	6,411.90	3/4	6,674.03
8	3,857.23	8	4,219.61	8	4,579.93	8	4,946.78	8	5,241.80	8	5,554.71	8	5,847.60	8	6,152.30	8	6,419.41	8	6,681.58
1/4	3,864.78	1/4	4,227.15	1/4	4,587.46	1/4	4,954.33	1/4	5,246.93	1/4	5,559.82	1/4	5,852.71	1/4	6,159.81	1/4	6,426.92	1/4	6,689.13
1/2	3,872.33	1/2	4,234.70	1/2	4,594.99	1/2	4,961.92	1/2	5,252.06	1/2	5,564.93	1/2	5,859.84	1/2	6,167.32	1/2	6,434.43	1/2	6,696.68
3/4	3,879.88	3/4	4,242.25	3/4	4,602.52	3/4	4,969.47	3/4	5,257.19	3/4	5,570.04	3/4	5,866.95	3/4	6,174.83	3/4	6,441.94	3/4	6,704.23
9	3,887.43	9	4,249.79	9	4,609.76	9	4,976.56	9	5,262.32	9	5,575.17	9	5,872.06	9	6,182.34	9	6,449.45	9	6,711.78
1/4	3,894.98	1/4	4,257.32	1/4	4,617.31	1/4	4,984.05	1/4	5,267.45	1/4	5,580.28	1/4	5,879.19	1/4	6,189.85	1/4	6,456.96	1/4	6,719.33
1/2	3,902.53	1/2	4,264.84	1/2	4,624.86	1/2	4,991.58	1/2	5,272.58	1/2	5,585.39	1/2	5,886.30	1/2	6,197.36	1/2	6,464.47	1/2	6,726.88
3/4	3,910.08	3/4	4,272.37	3/4	4,632.41	3/4	4,998.11	3/4	5,277.71	3/4	5,590.50	3/4	5,891.41	3/4	6,204.87	3/4	6,471.98	3/4	6,734.43
10	3,917.63	10	4,279.90	10	4,639.94	10	4,999.66	10	5,282.84	10	5,595.63	10	5,896.54	10	6,212.38	10	6,479.49	10	6,741.98
1/4	3,925.18	1/4	4,287.43	1/4	4,647.49	1/4	5,007.21	1/4	5,287.97	1/4	5,600.17	1/4	5,903.08	1/4	6,219.89	1/4	6,487.00	1/4	6,749.53
1/2	3,932.73	1/2	4,294.98	1/2	4,655.04	1/2	5,014.74	1/2	5,293.10	1/2	5,607.70	1/2	5,910.60	1/2	6,227.40	1/2	6,494.51	1/2	6,757.08
3/4	3,940.28	3/4	4,302.51	3/4	4,662.59	3/4	5,022.31	3/4	5,298.21	3/4	5,614.81	3/4	5,917.71	3/4	6,234.91	3/4	6,502.02	3/4	6,764.63
11	3,947.83	11	4,309.87	11	4,669.14	11	5,029.86	11	5,303.32	11	5,620.32	11	5,920.22	11	6,242.42	11	6,509.53	11	6,772.18
1/4	3,955.37	1/4	4,317.33	1/4	4,676.69	1/4	5,037.47	1/4	5,308.43	1/4	5,627.43	1/4	5,927.33	1/4	6,250.92	1/4	6,517.04	1/4	6,779.73
1/2	3,962.92	1/2	4,324.79	1/2	4,684.24	1/2	5,045.02	1/2	5,315.98	1/2	5,634.98	1/2	5,934.83	1/2	6,258.43	1/2	6,524.55	1/2	6,787.28
3/4	3,970.47	3/4	4,332.25	3/4	4,691.79	3/4	5,052.57	3/4	5,323.53	3/4	5,642.53	3/4	5,942.33	3/4	6,265.93	3/4	6,532.06	3/4	6,794.83

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Joe J. J. J.



BARGE "EMS 512"

1 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

0 FT.			1 FT.			2 FT.			3 FT.			4 FT.			5 FT.			6 FT.			7 FT.			8 FT.			9 FT.		
IN			IN			IN			IN			IN			IN			IN			IN			IN			IN		
0	21.38	0	355.19	0	716.43	0	1,077.76	0	1,439.06	0	1,801.57	0	2,164.08	0	2,526.59	0	2,888.80	0	3,251.18	0	3,613.56	0	3,975.94	0	4,338.32	0	4,700.70	0	5,063.08
1/4	25.61	1/4	362.59	1/4	723.98	1/4	1,085.27	1/4	1,446.81	1/4	1,809.12	1/4	2,171.63	1/4	2,534.14	1/4	2,896.35	1/4	3,258.73	1/4	3,621.11	1/4	3,983.49	1/4	4,345.87	1/4	4,708.25	1/4	5,070.63
1/2	29.85	1/2	369.99	1/2	731.53	1/2	1,092.77	1/2	1,454.16	1/2	1,816.67	1/2	2,179.18	1/2	2,541.69	1/2	2,903.90	1/2	3,266.28	1/2	3,628.66	1/2	3,990.97	1/2	4,353.35	1/2	4,715.73	1/2	5,078.11
3/4	34.08	3/4	377.40	3/4	739.08	3/4	1,100.27	3/4	1,461.71	3/4	1,824.22	3/4	2,186.74	3/4	2,549.25	3/4	2,911.45	3/4	3,273.83	3/4	3,636.21	3/4	3,998.59	3/4	4,360.97	3/4	4,723.35	3/4	5,085.73
1	38.32	1	384.80	1	746.64	1	1,107.77	1	1,468.27	1	1,831.78	1	2,194.29	1	2,556.80	1	2,919.00	1	3,281.38	1	3,643.76	1	3,998.59	1	4,360.97	1	4,723.35	1	5,085.73
1/4	43.81	1/4	392.21	1/4	754.19	1/4	1,115.27	1/4	1,476.82	1/4	1,839.33	1/4	2,201.84	1/4	2,564.35	1/4	2,926.55	1/4	3,288.93	1/4	3,651.31	1/4	3,998.59	1/4	4,360.97	1/4	4,723.35	1/4	5,085.73
1/2	49.30	1/2	399.61	1/2	761.74	1/2	1,122.77	1/2	1,484.37	1/2	1,846.88	1/2	2,209.39	1/2	2,571.90	1/2	2,934.10	1/2	3,296.48	1/2	3,658.86	1/2	3,998.59	1/2	4,360.97	1/2	4,723.35	1/2	5,085.73
3/4	54.79	3/4	407.02	3/4	769.29	3/4	1,130.27	3/4	1,491.92	3/4	1,854.43	3/4	2,216.94	3/4	2,579.45	3/4	2,941.65	3/4	3,304.03	3/4	3,666.41	3/4	3,998.59	3/4	4,360.97	3/4	4,723.35	3/4	5,085.73
2	60.28	2	414.42	2	776.84	2	1,137.77	2	1,499.48	2	1,861.99	2	2,224.50	2	2,587.01	2	2,949.20	2	3,311.58	2	3,673.96	2	3,998.59	2	4,360.97	2	4,723.35	2	5,085.73
1/4	67.03	1/4	421.95	1/4	784.40	1/4	1,145.27	1/4	1,507.03	1/4	1,869.54	1/4	2,232.05	1/4	2,594.56	1/4	2,956.75	1/4	3,319.13	1/4	3,681.51	1/4	3,998.59	1/4	4,360.97	1/4	4,723.35	1/4	5,085.73
1/2	73.78	1/2	429.49	1/2	791.95	1/2	1,152.77	1/2	1,514.58	1/2	1,877.09	1/2	2,239.60	1/2	2,602.11	1/2	2,964.30	1/2	3,326.68	1/2	3,692.06	1/2	3,998.59	1/2	4,360.97	1/2	4,723.35	1/2	5,085.73
3/4	80.53	3/4	437.02	3/4	799.50	3/4	1,160.27	3/4	1,522.13	3/4	1,884.64	3/4	2,247.15	3/4	2,609.66	3/4	2,971.85	3/4	3,339.23	3/4	3,704.61	3/4	3,998.59	3/4	4,360.97	3/4	4,723.35	3/4	5,085.73
3	87.28	3	444.56	3	807.05	3	1,167.77	3	1,529.68	3	1,892.20	3	2,254.71	3	2,617.22	3	2,979.40	3	3,341.77	3	3,704.61	3	3,998.59	3	4,360.97	3	4,723.35	3	5,085.73
1/4	94.74	1/4	452.11	1/4	814.60	1/4	1,175.27	1/4	1,537.24	1/4	1,899.75	1/4	2,262.26	1/4	2,624.77	1/4	2,986.95	1/4	3,349.32	1/4	3,704.61	1/4	3,998.59	1/4	4,360.97	1/4	4,723.35	1/4	5,085.73
1/2	102.20	1/2	459.66	1/2	822.16	1/2	1,182.77	1/2	1,544.79	1/2	1,907.30	1/2	2,269.81	1/2	2,632.32	1/2	2,994.50	1/2	3,356.87	1/2	3,704.61	1/2	3,998.59	1/2	4,360.97	1/2	4,723.35	1/2	5,085.73
3/4	109.66	3/4	467.21	3/4	829.71	3/4	1,190.27	3/4	1,552.34	3/4	1,914.85	3/4	2,277.36	3/4	2,639.87	3/4	3,002.05	3/4	3,364.42	3/4	3,704.61	3/4	3,998.59	3/4	4,360.97	3/4	4,723.35	3/4	5,085.73
4	117.12	4	474.76	4	837.26	4	1,197.77	4	1,559.89	4	1,922.40	4	2,284.92	4	2,647.42	4	3,009.60	4	3,371.97	4	3,704.61	4	3,998.59	4	4,360.97	4	4,723.35	4	5,085.73
1/4	124.65	1/4	482.32	1/4	844.81	1/4	1,205.27	1/4	1,567.45	1/4	1,929.96	1/4	2,292.47	1/4	2,654.96	1/4	3,017.15	1/4	3,380.52	1/4	3,704.61	1/4	3,998.59	1/4	4,360.97	1/4	4,723.35	1/4	5,085.73
1/2	132.19	1/2	489.87	1/2	852.36	1/2	1,212.78	1/2	1,575.00	1/2	1,937.51	1/2	2,300.02	1/2	2,662.49	1/2	3,024.70	1/2	3,387.07	1/2	3,704.61	1/2	3,998.59	1/2	4,360.97	1/2	4,723.35	1/2	5,085.73
3/4	139.73	3/4	497.42	3/4	859.92	3/4	1,220.28	3/4	1,582.55	3/4	1,945.06	3/4	2,307.57	3/4	2,670.03	3/4	3,032.24	3/4	3,394.62	3/4	3,704.61	3/4	3,998.59	3/4	4,360.97	3/4	4,723.35	3/4	5,085.73
5	147.26	5	504.97	5	867.47	5	1,227.78	5	1,590.10	5	1,952.61	5	2,315.12	5	2,677.57	5	3,039.79	5	3,402.17	5	3,704.61	5	3,998.59	5	4,360.97	5	4,723.35	5	5,085.73
1/4	154.80	1/4	512.52	1/4	875.02	1/4	1,235.29	1/4	1,597.66	1/4	1,960.17	1/4	2,322.68	1/4	2,685.11	1/4	3,047.34	1/4	3,409.72	1/4	3,704.61	1/4	3,998.59	1/4	4,360.97	1/4	4,723.35	1/4	5,085.73
1/2	162.34	1/2	520.08	1/2	882.57	1/2	1,242.80	1/2	1,605.21	1/2	1,967.72	1/2	2,330.23	1/2	2,692.65	1/2	3,054.89	1/2	3,417.27	1/2	3,704.61	1/2	3,998.59	1/2	4,360.97	1/2	4,723.35	1/2	5,085.73
3/4	169.88	3/4	527.63	3/4	890.12	3/4	1,250.31	3/4	1,612.76	3/4	1,975.27	3/4	2,337.78	3/4	2,700.18	3/4	3,062.44	3/4	3,424.82	3/4	3,704.61	3/4	3,998.59	3/4	4,360.97	3/4	4,723.35	3/4	5,085.73
6	177.41	6	535.18	6	897.68	6	1,257.82	6	1,620.31	6	1,982.82	6	2,345.33	6	2,707.72	6	3,069.99	6	3,432.37	6	3,704.61	6	3,998.59	6	4,360.97	6	4,723.35	6	5,085.73
1/4	184.83	1/4	542.73	1/4	905.19	1/4	1,265.37	1/4	1,627.86	1/4	1,990.38	1/4	2,352.89	1/4	2,715.26	1/4	3,077.54	1/4	3,439.92	1/4	3,704.61	1/4	3,998.59	1/4	4,360.97	1/4	4,723.35	1/4	5,085.73
1/2	192.26	1/2	550.28	1/2	912.71	1/2	1,272.92	1/2	1,635.42	1/2	1,997.93	1/2	2,360.44	1/2	2,722.79	1/2	3,085.09	1/2	3,447.47	1/2	3,704.61	1/2	3,998.59	1/2	4,360.97	1/2	4,723.35	1/2	5,085.73
3/4	199.68	3/4	557.84	3/4	920.23	3/4	1,280.46	3/4	1,642.97	3/4	2,005.48	3/4	2,367.99	3/4	2,730.33	3/4	3,092.64	3/4	3,455.02	3/4	3,704.61	3/4	3,998.59	3/4	4,360.97	3/4	4,723.35	3/4	5,085.73
7	207.10	7	565.39	7	927.75	7	1,288.01	7	1,650.52	7	2,013.03	7	2,375.54	7	2,737.87	7	3,100.19	7	3,462.57	7	3,704.61	7	3,998.59	7	4,360.97	7	4,723.35	7	5,085.73
1/4	214.50	1/4	572.94	1/4	935.25	1/4	1,295.56	1/4	1,658.07	1/4	2,020.58	1/4	2,383.09	1/4	2,745.41	1/4	3,107.74	1/4	3,470.12	1/4	3,704.61	1/4	3,998.59	1/4	4,360.97	1/4	4,723.35	1/4	5,085.73
1/2	221.91	1/2	580.49	1/2	942.75	1/2	1,303.12	1/2	1,665.63	1/2	2,028.14	1/2	2,390.65	1/2	2,752.94	1/2	3,115.29	1/2	3,477.67	1/2	3,704.61	1/2	3,998.59	1/2	4,360.97	1/2	4,723.35	1/2	5,085.73
3/4	229.31	3/4	588.04	3/4	950.25	3/4	1,310.67	3/4	1,673.18	3/4	2,035.69	3/4	2,398.20	3/4	2,760.48	3/4	3,122.84	3/4	3,485.21	3/4	3,704.61	3/4	3,998.59	3/4	4,360.97	3/4	4,723.35	3/4	5,085.73
8	236.72	8	595.60	8	957.76	8	1,318.22	8	1,680.73	8	2,043.24	8	2,405.75	8	2,768.02	8	3,130.39	8	3,492.76	8	3,704.61	8	3,998.59	8	4,360.97	8	4,723.35	8	5,085.73
1/4	244.12	1/4	603.15	1/4	965.26	1/4	1,325.77	1/4	1,688.28	1/4	2,050.79	1/4	2,413.30	1/4	2,775.57	1/4	3,137.94	1/4	3,500.31	1/4	3,704.61								



BARGE "EMS 512"

1 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	3,613.56	0	3,975.93	0	4,337.62	0	4,695.88	0	5,015.84	0		0		0		0		0	
1/4	3,621.11	1/4	3,983.48	1/4	4,345.05	1/4	4,699.93	1/4	5,023.24	1/4		1/4		1/4		1/4		1/4	
1/2	3,628.66	1/2	3,991.03	1/2	4,352.48	1/2	4,699.98	1/2	5,030.64	1/2		1/2		1/2		1/2		1/2	
3/4	3,636.20	3/4	3,998.58	3/4	4,359.91	3/4	4,707.03	3/4	5,038.04	3/4		3/4		3/4		3/4		3/4	
1	3,643.75	1	4,006.13	1	4,367.34	1	4,714.08	1	5,045.44	1		1		1		1		1	
1/4	3,651.30	1/4	4,013.68	1/4	4,374.73	1/4	4,721.07	1/4	5,052.89	1/4		1/4		1/4		1/4		1/4	
1/2	3,658.85	1/2	4,021.23	1/2	4,382.13	1/2	4,728.06	1/2	5,060.34	1/2		1/2		1/2		1/2		1/2	
3/4	3,666.40	3/4	4,028.78	3/4	4,389.53	3/4	4,735.05	3/4	5,067.79	3/4		3/4		3/4		3/4		3/4	
2	3,673.95	2	4,036.33	2	4,396.93	2	4,742.04	2	5,075.25	2		2		2		2		2	
1/4	3,681.50	1/4	4,043.88	1/4	4,404.30	1/4	4,748.99	1/4	5,082.70	1/4		1/4		1/4		1/4		1/4	
1/2	3,689.05	1/2	4,051.43	1/2	4,411.87	1/2	4,755.95	1/2	5,090.15	1/2		1/2		1/2		1/2		1/2	
3/4	3,696.60	3/4	4,058.98	3/4	4,419.04	3/4	4,762.90	3/4	5,097.60	3/4		3/4		3/4		3/4		3/4	
3	3,704.15	3	4,066.53	3	4,426.41	3	4,769.86	3	5,105.05	3		3		3		3		3	
1/4	3,711.70	1/4	4,074.08	1/4	4,433.74	1/4	4,776.79	1/4	5,112.50	1/4		1/4		1/4		1/4		1/4	
1/2	3,719.25	1/2	4,081.63	1/2	4,441.08	1/2	4,783.71	1/2	5,119.95	1/2		1/2		1/2		1/2		1/2	
3/4	3,726.80	3/4	4,089.17	3/4	4,448.41	3/4	4,790.64	3/4	5,127.40	3/4		3/4		3/4		3/4		3/4	
4	3,734.35	4	4,096.72	4	4,455.75	4	4,797.56	4	5,134.86	4		4		4		4		4	
1/4	3,741.90	1/4	4,104.27	1/4	4,463.05	1/4	4,804.45	1/4	5,142.31	1/4		1/4		1/4		1/4		1/4	
1/2	3,749.45	1/2	4,111.82	1/2	4,470.35	1/2	4,811.35	1/2	5,149.76	1/2		1/2		1/2		1/2		1/2	
3/4	3,757.00	3/4	4,119.37	3/4	4,477.65	3/4	4,818.24	3/4	5,157.21	3/4		3/4		3/4		3/4		3/4	
5	3,764.55	5	4,126.92	5	4,484.96	5	4,825.13	5	5,164.66	5		5		5		5		5	
1/4	3,772.10	1/4	4,134.47	1/4	4,492.23	1/4	4,831.99	1/4	5,171.97	1/4		1/4		1/4		1/4		1/4	
1/2	3,779.65	1/2	4,142.02	1/2	4,499.50	1/2	4,838.85	1/2	5,179.29	1/2		1/2		1/2		1/2		1/2	
3/4	3,787.18	3/4	4,149.57	3/4	4,506.77	3/4	4,845.71	3/4	5,186.60	3/4		3/4		3/4		3/4		3/4	
6	3,794.74	6	4,157.12	6	4,514.04	6	4,852.56	6	5,193.91	6		6		6		6		6	
1/4	3,802.29	1/4	4,164.67	1/4	4,521.28	1/4	4,859.39	1/4	5,200.24	1/4		1/4		1/4		1/4		1/4	
1/2	3,809.84	1/2	4,172.22	1/2	4,528.52	1/2	4,866.22	1/2	5,206.57	1/2		1/2		1/2		1/2		1/2	
3/4	3,817.39	3/4	4,179.77	3/4	4,535.76	3/4	4,873.05	3/4	5,212.90	3/4		3/4		3/4		3/4		3/4	
7	3,824.94	7	4,187.32	7	4,543.00	7	4,879.87	7	5,219.23	7		7		7		7		7	
1/4	3,832.49	1/4	4,194.87	1/4	4,550.21	1/4	4,886.67	1/4	5,224.34	1/4		1/4		1/4		1/4		1/4	
1/2	3,840.04	1/2	4,202.42	1/2	4,557.42	1/2	4,893.47	1/2	5,229.46	1/2		1/2		1/2		1/2		1/2	
3/4	3,847.59	3/4	4,209.97	3/4	4,564.63	3/4	4,900.27	3/4	5,234.58	3/4		3/4		3/4		3/4		3/4	
8	3,855.14	8	4,217.52	8	4,571.83	8	4,907.06	8	5,239.69	8		8		8		8		8	
1/4	3,862.69	1/4	4,225.06	1/4	4,579.01	1/4	4,913.83	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,870.24	1/2	4,232.61	1/2	4,586.18	1/2	4,920.60	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,877.79	3/4	4,240.15	3/4	4,593.35	3/4	4,927.37	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,885.34	9	4,247.70	9	4,600.53	9	4,934.13	9		9		9		9		9		9	
1/4	3,892.89	1/4	4,255.23	1/4	4,607.67	1/4	4,940.87	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,900.44	1/2	4,262.75	1/2	4,614.81	1/2	4,947.60	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,907.99	3/4	4,270.28	3/4	4,621.96	3/4	4,954.34	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,915.54	10	4,277.80	10	4,629.10	10	4,961.08	10		10		10		10		10		10	
1/4	3,923.09	1/4	4,285.30	1/4	4,636.21	1/4	4,967.78	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,930.64	1/2	4,292.79	1/2	4,643.32	1/2	4,974.48	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,938.18	3/4	4,300.29	3/4	4,650.44	3/4	4,981.18	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,945.73	11	4,307.78	11	4,657.55	11	4,987.89	11		11		11		11		11		11	
1/4	3,953.28	1/4	4,315.24	1/4	4,664.63	1/4	4,994.88	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,960.83	1/2	4,322.70	1/2	4,671.72	1/2	5,001.87	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,968.38	3/4	4,330.16	3/4	4,678.80	3/4	5,008.85	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/24/2019 CL
CALCULATED: 01/25/2019 CL
PRINTED: 01/25/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2019

PRECISION MEASUREMENT
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<http://www.pmacorp.net>

Paul J. Hume



BARGE "EMS 512"

2 PORT
INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	21.33	0	354.27	0	714.58	0	1,075.92	0	1,437.25	0	1,798.84	0	2,160.42	0	2,522.00	0	2,883.49	0	3,244.95
1/4	25.55	1/4	361.65	1/4	722.12	1/4	1,083.44	1/4	1,444.79	1/4	1,806.37	1/4	2,167.95	1/4	2,529.54	1/4	2,891.02	1/4	3,252.48
1/2	29.77	1/2	369.04	1/2	729.65	1/2	1,090.96	1/2	1,452.32	1/2	1,813.90	1/2	2,175.49	1/2	2,537.07	1/2	2,898.55	1/2	3,260.01
3/4	34.00	3/4	376.42	3/4	737.18	3/4	1,098.48	3/4	1,459.85	3/4	1,821.44	3/4	2,183.02	3/4	2,544.60	3/4	2,906.08	3/4	3,267.54
1	38.22	1	383.81	1	744.71	1	1,106.00	1	1,467.38	1	1,828.97	1	2,190.55	1	2,552.14	1	2,913.61	1	3,275.07
1/4	43.70	1/4	391.19	1/4	752.25	1/4	1,113.52	1/4	1,474.92	1/4	1,836.50	1/4	2,198.09	1/4	2,559.67	1/4	2,921.14	1/4	3,282.60
1/2	48.17	1/2	398.58	1/2	759.78	1/2	1,121.05	1/2	1,482.45	1/2	1,844.03	1/2	2,205.62	1/2	2,567.20	1/2	2,928.67	1/2	3,290.13
3/4	54.65	3/4	405.96	3/4	767.31	3/4	1,128.57	3/4	1,489.98	3/4	1,851.57	3/4	2,213.15	3/4	2,574.74	3/4	2,936.20	3/4	3,297.66
2	60.13	2	413.35	2	774.85	2	1,136.09	2	1,497.52	2	1,859.10	2	2,220.68	2	2,582.27	2	2,943.74	2	3,305.19
1/4	66.86	1/4	420.86	1/4	782.38	1/4	1,143.61	1/4	1,505.05	1/4	1,866.63	1/4	2,228.22	1/4	2,589.80	1/4	2,951.27	1/4	3,312.72
1/2	73.59	1/2	428.38	1/2	789.91	1/2	1,151.13	1/2	1,512.58	1/2	1,874.17	1/2	2,235.75	1/2	2,597.33	1/2	2,958.80	1/2	3,320.25
3/4	80.33	3/4	435.89	3/4	797.44	3/4	1,158.65	3/4	1,520.12	3/4	1,881.70	3/4	2,243.28	3/4	2,604.87	3/4	2,966.33	3/4	3,327.78
3	87.06	3	443.41	3	804.98	3	1,166.17	3	1,527.65	3	1,889.23	3	2,250.82	3	2,612.40	3	2,973.86	3	3,335.31
1/4	94.50	1/4	450.94	1/4	812.51	1/4	1,173.69	1/4	1,535.18	1/4	1,896.77	1/4	2,258.35	1/4	2,619.93	1/4	2,981.39	1/4	3,342.84
1/2	101.94	1/2	458.47	1/2	820.04	1/2	1,181.21	1/2	1,542.71	1/2	1,904.30	1/2	2,265.88	1/2	2,627.46	1/2	2,988.92	1/2	3,350.37
3/4	109.38	3/4	466.00	3/4	827.57	3/4	1,188.73	3/4	1,550.25	3/4	1,911.83	3/4	2,273.42	3/4	2,634.99	3/4	2,996.45	3/4	3,357.90
4	116.82	4	473.54	4	835.11	4	1,196.25	4	1,557.78	4	1,919.36	4	2,280.95	4	2,642.52	4	3,003.98	4	3,365.43
1/4	124.33	1/4	481.07	1/4	842.64	1/4	1,203.77	1/4	1,565.31	1/4	1,926.90	1/4	2,288.48	1/4	2,650.05	1/4	3,011.51	1/4	3,372.96
1/2	131.85	1/2	488.60	1/2	850.17	1/2	1,211.30	1/2	1,572.85	1/2	1,934.43	1/2	2,296.01	1/2	2,657.58	1/2	3,018.04	1/2	3,380.49
3/4	139.37	3/4	496.14	3/4	857.70	3/4	1,218.82	3/4	1,580.38	3/4	1,941.96	3/4	2,303.55	3/4	2,665.11	3/4	3,026.57	3/4	3,388.02
5	146.89	5	503.67	5	865.24	5	1,226.34	5	1,587.91	5	1,949.50	5	2,311.08	5	2,672.64	5	3,034.10	5	3,395.55
1/4	154.41	1/4	511.20	1/4	872.77	1/4	1,233.87	1/4	1,595.45	1/4	1,957.03	1/4	2,318.61	1/4	2,680.17	1/4	3,041.63	1/4	3,403.08
1/2	161.92	1/2	518.73	1/2	880.30	1/2	1,241.40	1/2	1,602.98	1/2	1,964.56	1/2	2,326.15	1/2	2,687.70	1/2	3,049.16	1/2	3,410.61
3/4	169.44	3/4	526.27	3/4	887.84	3/4	1,248.93	3/4	1,610.51	3/4	1,972.10	3/4	2,333.68	3/4	2,695.24	3/4	3,056.69	3/4	3,418.14
6	176.96	6	533.80	6	895.37	6	1,256.46	6	1,618.04	6	1,979.63	6	2,341.21	6	2,702.77	6	3,064.22	6	3,425.67
1/4	184.36	1/4	541.33	1/4	902.90	1/4	1,263.99	1/4	1,625.58	1/4	1,987.16	1/4	2,348.75	1/4	2,710.30	1/4	3,071.75	1/4	3,433.20
1/2	191.76	1/2	548.86	1/2	910.43	1/2	1,271.53	1/2	1,633.11	1/2	1,994.69	1/2	2,356.28	1/2	2,717.83	1/2	3,079.28	1/2	3,440.73
3/4	199.16	3/4	556.40	3/4	917.97	3/4	1,279.06	3/4	1,640.64	3/4	2,002.23	3/4	2,363.81	3/4	2,725.36	3/4	3,086.81	3/4	3,448.27
7	206.57	7	563.93	7	925.50	7	1,286.59	7	1,648.18	7	2,009.76	7	2,371.34	7	2,732.89	7	3,094.34	7	3,455.80
1/4	213.95	1/4	571.46	1/4	933.02	1/4	1,294.13	1/4	1,655.71	1/4	2,017.29	1/4	2,378.88	1/4	2,740.42	1/4	3,101.87	1/4	3,463.33
1/2	221.34	1/2	579.00	1/2	940.54	1/2	1,301.66	1/2	1,663.24	1/2	2,024.83	1/2	2,386.41	1/2	2,747.95	1/2	3,109.40	1/2	3,470.86
3/4	228.72	3/4	586.53	3/4	948.07	3/4	1,309.19	3/4	1,670.78	3/4	2,032.36	3/4	2,393.94	3/4	2,755.48	3/4	3,116.93	3/4	3,478.39
8	236.11	8	594.06	8	955.59	8	1,316.72	8	1,678.31	8	2,039.89	8	2,401.48	8	2,763.01	8	3,124.46	8	3,485.92
1/4	243.49	1/4	601.59	1/4	963.11	1/4	1,324.26	1/4	1,685.84	1/4	2,047.43	1/4	2,409.01	1/4	2,770.54	1/4	3,131.99	1/4	3,493.45
1/2	250.88	1/2	609.13	1/2	970.63	1/2	1,331.79	1/2	1,693.37	1/2	2,054.96	1/2	2,416.54	1/2	2,778.07	1/2	3,139.52	1/2	3,500.98
3/4	258.26	3/4	616.66	3/4	978.15	3/4	1,339.32	3/4	1,700.91	3/4	2,062.49	3/4	2,424.08	3/4	2,785.60	3/4	3,147.05	3/4	3,508.51
9	265.65	9	624.19	9	985.67	9	1,346.86	9	1,708.44	9	2,070.02	9	2,431.61	9	2,793.13	9	3,154.58	9	3,516.04
1/4	273.03	1/4	631.72	1/4	993.19	1/4	1,354.39	1/4	1,715.97	1/4	2,077.56	1/4	2,439.14	1/4	2,800.66	1/4	3,162.11	1/4	3,523.57
1/2	280.42	1/2	639.26	1/2	1,000.71	1/2	1,361.92	1/2	1,723.51	1/2	2,085.09	1/2	2,446.67	1/2	2,808.19	1/2	3,169.64	1/2	3,531.10
3/4	287.80	3/4	646.79	3/4	1,008.23	3/4	1,369.46	3/4	1,731.04	3/4	2,092.62	3/4	2,454.21	3/4	2,815.72	3/4	3,177.17	3/4	3,538.63
10	295.19	10	654.32	10	1,015.75	10	1,376.99	10	1,738.57	10	2,100.16	10	2,461.74	10	2,823.25	10	3,184.70	10	3,546.16
1/4	302.57	1/4	661.85	1/4	1,023.28	1/4	1,384.52	1/4	1,746.11	1/4	2,107.69	1/4	2,469.27	1/4	2,830.78	1/4	3,192.24	1/4	3,553.69
1/2	309.96	1/2	669.39	1/2	1,030.80	1/2	1,392.05	1/2	1,753.64	1/2	2,115.22	1/2	2,476.81	1/2	2,838.31	1/2	3,199.77	1/2	3,561.22
3/4	317.34	3/4	676.92	3/4	1,038.32	3/4	1,399.59	3/4	1,761.17	3/4	2,122.76	3/4	2,484.34	3/4	2,845.84	3/4	3,207.30	3/4	3,568.75
11	324.73	11	684.45	11	1,045.84	11	1,407.12	11	1,768.70	11	2,130.29	11	2,491.87	11	2,853.37	11	3,214.83	11	3,576.28
1/4	332.11	1/4	691.99	1/4	1,053.36	1/4	1,414.65	1/4	1,776.24	1/4	2,137.82	1/4	2,499.41	1/4	2,860.90	1/4	3,222.36	1/4	3,583.81
1/2	339.50	1/2	699.52	1/2	1,060.88	1/2	1,422.19	1/2	1,783.77	1/2	2,145.35	1/2	2,506.94	1/2	2,868.43	1/2	3,229.89	1/2	3,591.34
3/4	346.88	3/4	707.05	3/4	1,068.40	3/4	1,429.72	3/4	1,791.30	3/4	2,152.89	3/4	2,514.47	3/4	2,875.96	3/4	3,237.42	3/4	3,598.87

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK

CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN AT 2" DIAMETER "HERMETIC" VALVE

GAUGE POINT: (HERMETIC) LOCATED 10'-08" 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.pmacorp.net>

Paul J. Parnell



BARGE "EMS 512"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		GAUGE HEIGHT 15'-08 1/4"	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
0	3,606.40	0	3,967.86	0	4,328.60	0	4,675.97	0	5,005.09	0	5,312.47	0	5,604.33	0	5,884.14	0	6,148.14	0	6,398.14
1/4	3,613.93	1/4	3,975.39	1/4	4,336.01	1/4	4,683.00	1/4	5,012.47	1/4	5,319.85	1/4	5,611.71	1/4	5,891.52	1/4	6,155.52	1/4	6,405.52
1/2	3,621.46	1/2	3,982.92	1/2	4,343.42	1/2	4,690.03	1/2	5,019.85	1/2	5,327.23	1/2	5,619.09	1/2	5,898.90	1/2	6,163.00	1/2	6,413.00
3/4	3,628.99	3/4	3,990.45	3/4	4,350.83	3/4	4,697.07	3/4	5,027.23	3/4	5,334.61	3/4	5,625.87	3/4	5,905.68	3/4	6,169.68	3/4	6,419.68
1	3,636.52	1	3,997.98	1	4,358.24	1	4,704.10	1	5,034.61	1	5,342.01	1	5,633.27	1	5,913.08	1	6,176.68	1	6,426.68
1 1/4	3,644.05	1 1/4	4,005.51	1 1/4	4,365.62	1 1/4	4,711.07	1 1/4	5,040.47	1 1/4	5,348.87	1 1/4	5,639.13	1 1/4	5,918.00	1 1/4	6,183.68	1 1/4	6,433.68
1 1/2	3,651.58	1 1/2	4,013.04	1 1/2	4,373.00	1 1/2	4,718.04	1 1/2	5,049.47	1 1/2	5,356.27	1 1/2	5,646.53	1 1/2	5,925.40	1 1/2	6,190.40	1 1/2	6,440.40
3/4	3,659.11	3/4	4,020.57	3/4	4,380.38	3/4	4,725.01	3/4	5,056.90	3/4	5,363.71	3/4	5,653.97	3/4	5,932.84	3/4	6,197.40	3/4	6,447.40
2	3,666.64	2	4,028.10	2	4,387.76	2	4,731.98	2	5,064.33	2	5,371.13	2	5,661.39	2	5,940.26	2	6,204.40	2	6,454.40
1 1/4	3,674.17	1 1/4	4,035.63	1 1/4	4,395.31	1 1/4	4,738.92	1 1/4	5,071.77	1 1/4	5,378.97	1 1/4	5,668.23	1 1/4	5,947.10	1 1/4	6,211.40	1 1/4	6,461.40
1 1/2	3,681.70	1 1/2	4,043.16	1 1/2	4,402.46	1 1/2	4,745.86	1 1/2	5,079.20	1 1/2	5,386.41	1 1/2	5,675.67	1 1/2	5,954.54	1 1/2	6,218.40	1 1/2	6,468.40
3/4	3,689.23	3/4	4,050.69	3/4	4,409.81	3/4	4,752.80	3/4	5,086.63	3/4	5,393.87	3/4	5,683.13	3/4	5,962.00	3/4	6,225.40	3/4	6,475.40
3	3,696.77	3	4,058.22	3	4,417.16	3	4,759.74	3	5,094.06	3	5,401.22	3	5,690.48	3	5,969.35	3	6,232.40	3	6,482.40
1 1/4	3,704.30	1 1/4	4,065.75	1 1/4	4,424.48	1 1/4	4,766.64	1 1/4	5,101.49	1 1/4	5,408.65	1 1/4	5,697.91	1 1/4	5,976.78	1 1/4	6,239.40	1 1/4	6,489.40
1 1/2	3,711.83	1 1/2	4,073.28	1 1/2	4,431.80	1 1/2	4,773.55	1 1/2	5,108.93	1 1/2	5,415.91	1 1/2	5,705.17	1 1/2	5,984.04	1 1/2	6,246.40	1 1/2	6,496.40
3/4	3,719.36	3/4	4,080.81	3/4	4,439.11	3/4	4,780.46	3/4	5,116.36	3/4	5,423.27	3/4	5,710.53	3/4	5,989.40	3/4	6,253.40	3/4	6,503.40
4	3,726.89	4	4,088.34	4	4,446.43	4	4,787.37	4	5,123.79	4	5,430.71	4	5,717.97	4	5,996.84	4	6,260.40	4	6,510.40
1 1/4	3,734.42	1 1/4	4,095.87	1 1/4	4,453.71	1 1/4	4,794.24	1 1/4	5,131.22	1 1/4	5,438.28	1 1/4	5,725.54	1 1/4	6,004.41	1 1/4	6,267.40	1 1/4	6,517.40
1 1/2	3,741.95	1 1/2	4,103.40	1 1/2	4,461.00	1 1/2	4,801.12	1 1/2	5,138.65	1 1/2	5,445.91	1 1/2	5,733.17	1 1/2	6,011.41	1 1/2	6,274.40	1 1/2	6,524.40
3/4	3,749.48	3/4	4,110.93	3/4	4,468.28	3/4	4,807.99	3/4	5,146.09	3/4	5,453.33	3/4	5,740.59	3/4	6,018.41	3/4	6,281.40	3/4	6,531.40
5	3,757.01	5	4,118.46	5	4,475.56	5	4,814.86	5	5,153.52	5	5,460.71	5	5,747.97	5	6,025.41	5	6,288.40	5	6,538.40
1 1/4	3,764.54	1 1/4	4,125.99	1 1/4	4,482.81	1 1/4	4,821.71	1 1/4	5,160.81	1 1/4	5,468.07	1 1/4	5,755.33	1 1/4	6,032.41	1 1/4	6,295.40	1 1/4	6,545.40
1 1/2	3,772.07	1 1/2	4,133.52	1 1/2	4,490.07	1 1/2	4,828.55	1 1/2	5,168.11	1 1/2	5,475.37	1 1/2	5,762.63	1 1/2	6,039.41	1 1/2	6,302.40	1 1/2	6,552.40
3/4	3,779.60	3/4	4,141.05	3/4	4,497.32	3/4	4,835.39	3/4	5,175.40	3/4	5,482.66	3/4	5,769.92	3/4	6,046.41	3/4	6,309.40	3/4	6,559.40
6	3,787.13	6	4,148.58	6	4,504.57	6	4,842.23	6	5,182.70	6	5,489.97	6	5,777.23	6	6,053.41	6	6,316.40	6	6,566.40
1 1/4	3,794.66	1 1/4	4,156.11	1 1/4	4,511.79	1 1/4	4,849.04	1 1/4	5,189.01	1 1/4	5,496.27	1 1/4	5,783.53	1 1/4	6,059.41	1 1/4	6,323.40	1 1/4	6,573.40
1 1/2	3,802.19	1 1/2	4,163.64	1 1/2	4,519.02	1 1/2	4,855.85	1 1/2	5,195.33	1 1/2	5,502.60	1 1/2	5,789.86	1 1/2	6,066.41	1 1/2	6,330.40	1 1/2	6,580.40
3/4	3,809.72	3/4	4,171.17	3/4	4,526.24	3/4	4,862.66	3/4	5,201.64	3/4	5,508.91	3/4	5,796.17	3/4	6,073.41	3/4	6,337.40	3/4	6,587.40
7	3,817.25	7	4,178.70	7	4,533.46	7	4,869.47	7	5,207.95	7	5,515.22	7	5,802.48	7	6,089.41	7	6,344.40	7	6,594.40
1 1/4	3,824.78	1 1/4	4,186.23	1 1/4	4,540.65	1 1/4	4,876.25	1 1/4	5,213.06	1 1/4	5,520.33	1 1/4	5,806.59	1 1/4	6,092.41	1 1/4	6,351.40	1 1/4	6,601.40
1 1/2	3,832.31	1 1/2	4,193.76	1 1/2	4,547.84	1 1/2	4,883.03	1 1/2	5,218.16	1 1/2	5,525.43	1 1/2	5,811.69	1 1/2	6,100.41	1 1/2	6,358.40	1 1/2	6,608.40
3/4	3,839.84	3/4	4,201.30	3/4	4,555.03	3/4	4,889.81	3/4	5,223.26	3/4	5,530.53	3/4	5,816.79	3/4	6,107.41	3/4	6,365.40	3/4	6,615.40
8	3,847.37	8	4,208.83	8	4,562.22	8	4,896.59	8	5,228.36	8	5,537.80	8	5,823.06	8	6,114.41	8	6,372.40	8	6,622.40
1 1/4	3,854.90	1 1/4	4,216.35	1 1/4	4,569.37	1 1/4	4,903.34	1 1/4	5,235.61	1 1/4	5,542.87	1 1/4	5,828.13	1 1/4	6,121.41	1 1/4	6,379.40	1 1/4	6,629.40
1 1/2	3,862.43	1 1/2	4,223.87	1 1/2	4,576.53	1 1/2	4,910.09	1 1/2	5,243.06	1 1/2	5,550.33	1 1/2	5,833.59	1 1/2	6,128.41	1 1/2	6,386.40	1 1/2	6,636.40
3/4	3,869.96	3/4	4,231.39	3/4	4,583.68	3/4	4,916.84	3/4	5,249.29	3/4	5,556.56	3/4	5,839.82	3/4	6,135.41	3/4	6,393.40	3/4	6,643.40
9	3,877.49	9	4,238.91	9	4,590.84	9	4,923.59	9	5,256.56	9	5,563.83	9	5,847.09	9	6,142.41	9	6,400.40	9	6,650.40
1 1/4	3,885.02	1 1/4	4,246.42	1 1/4	4,597.96	1 1/4	4,930.31	1 1/4	5,263.83	1 1/4	5,570.10	1 1/4	5,853.36	1 1/4	6,149.41	1 1/4	6,407.40	1 1/4	6,657.40
1 1/2	3,892.55	1 1/2	4,253.93	1 1/2	4,605.09	1 1/2	4,937.02	1 1/2	5,271.06	1 1/2	5,577.33	1 1/2	5,860.59	1 1/2	6,156.41	1 1/2	6,414.40	1 1/2	6,664.40
3/4	3,900.08	3/4	4,261.43	3/4	4,612.21	3/4	4,943.74	3/4	5,278.13	3/4	5,584.40	3/4	5,867.66	3/4	6,163.41	3/4	6,421.40	3/4	6,671.40
10	3,907.61	10	4,268.94	10	4,619.34	10	4,950.46	10	5,285.16	10	5,590.43	10	5,873.69	10	6,170.41	10	6,428.40	10	6,678.40
1 1/4	3,915.14	1 1/4	4,276.41	1 1/4	4,626.43	1 1/4	4,957.15	1 1/4	5,292.17	1 1/4	5,600.40	1 1/4	5,883.66	1 1/4	6,177.41	1 1/4	6,435.40	1 1/4	6,685.40
1 1/2	3,922.67	1 1/2	4,283.89	1 1/2	4,633.52	1 1/2	4,963.83	1 1/2	5,300.18	1 1/2	5,607.41	1 1/2	5,890.96	1 1/2	6,184.41	1 1/2	6,442.40	1 1/2	6,692.40
3/4	3,930.20	3/4	4,291.36	3/4	4,640.62	3/4	4,970.52	3/4	5,307.19	3/4	5,614.42	3/4	5,897.90	3/4	6,191.41	3/4	6,449.40	3/4	6,699.40
11	3,937.73	11	4,298.84	11	4,647.71	11	4,977.20	11	5,314.20	11	5,621.43	11	5,905.68	11	6,200.41	11	6,456.40	11	6,706.40
1 1/4	3,945.27	1 1/4	4,306.28	1 1/4	4,654.78	1 1/4	4,984.17	1 1/4	5,321.21	1 1/4	5,628.44	1 1/4	5,918.90	1 1/4	6,207.41	1 1/4	6,463.40	1 1/4	6,713.40
1 1/2	3,952.80	1 1/2	4,313.72	1 1/2	4,661.84	1 1/2	4,991.14	1 1/2	5,328.22	1 1/2	5,635.45	1 1/2	5,925.91	1 1/2	6,214.41	1 1/2	6,470.40	1 1/2	6,720.40
3/4	3,960.33	3/4	4,321.16	3/4	4,668.91	3/4	4,998.12	3/4	5,335.23	3/4	5,642.46	3/4	5,932.92	3/4	6,221.41	3/4	6,477.40	3/4	6,727.40

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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Paul J. Pearson



BARGE "EMS 512"

2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	21.35	0	354.60	0	715.25	0	1,069.13	0	1,422.69	0	1,784.61	0	2,146.53	0	2,508.45	0	2,868.56	0	3,230.35
1/4	25.57	1/4	361.99	1/4	722.79	1/4	1,076.33	1/4	1,430.23	1/4	1,792.15	1/4	2,154.07	1/4	2,515.99	1/4	2,876.10	1/4	3,237.88
1/2	29.80	1/2	369.38	1/2	730.33	1/2	1,083.53	1/2	1,437.77	1/2	1,799.89	1/2	2,161.61	1/2	2,523.53	1/2	2,883.64	1/2	3,245.42
3/4	34.03	3/4	376.77	3/4	737.87	3/4	1,090.72	3/4	1,445.31	3/4	1,807.23	3/4	2,169.15	3/4	2,531.07	3/4	2,891.17	3/4	3,252.96
1	38.25	1	384.17	1	745.41	1	1,097.92	1	1,452.85	1	1,814.77	1	2,176.69	1	2,538.61	1	2,898.71	1	3,260.50
1/4	43.74	1/4	391.56	1/4	752.95	1/4	1,105.12	1/4	1,460.39	1/4	1,822.31	1/4	2,184.23	1/4	2,546.15	1/4	2,906.25	1/4	3,268.03
1/2	49.22	1/2	398.95	1/2	760.49	1/2	1,112.31	1/2	1,467.93	1/2	1,829.85	1/2	2,191.77	1/2	2,553.69	1/2	2,913.78	1/2	3,275.57
3/4	54.70	3/4	406.34	3/4	768.03	3/4	1,119.51	3/4	1,475.47	3/4	1,837.39	3/4	2,199.31	3/4	2,561.23	3/4	2,921.32	3/4	3,283.11
2	60.18	2	413.73	2	775.57	2	1,126.71	2	1,483.01	2	1,844.93	2	2,206.85	2	2,568.77	2	2,928.86	2	3,290.64
1/4	66.92	1/4	421.25	1/4	783.11	1/4	1,133.90	1/4	1,490.55	1/4	1,852.47	1/4	2,214.39	1/4	2,576.31	1/4	2,936.40	1/4	3,298.18
1/2	73.66	1/2	428.78	1/2	790.65	1/2	1,141.10	1/2	1,498.09	1/2	1,860.01	1/2	2,221.93	1/2	2,583.85	1/2	2,943.93	1/2	3,305.72
3/4	80.40	3/4	436.30	3/4	798.18	3/4	1,148.30	3/4	1,505.63	3/4	1,867.55	3/4	2,228.47	3/4	2,591.38	3/4	2,951.47	3/4	3,313.26
3	87.14	3	443.82	3	805.72	3	1,155.49	3	1,513.17	3	1,875.09	3	2,237.01	3	2,598.93	3	2,959.01	3	3,320.79
1/4	94.59	1/4	451.36	1/4	813.26	1/4	1,162.69	1/4	1,520.71	1/4	1,882.63	1/4	2,244.55	1/4	2,606.46	1/4	2,966.55	1/4	3,328.33
1/2	102.03	1/2	458.90	1/2	820.80	1/2	1,169.89	1/2	1,528.25	1/2	1,890.17	1/2	2,252.09	1/2	2,614.00	1/2	2,974.08	1/2	3,335.87
3/4	109.48	3/4	466.44	3/4	828.34	3/4	1,177.08	3/4	1,535.79	3/4	1,897.71	3/4	2,259.63	3/4	2,621.54	3/4	2,981.62	3/4	3,343.41
4	116.92	4	473.98	4	835.88	4	1,184.28	4	1,543.33	4	1,905.25	4	2,267.17	4	2,629.07	4	2,989.16	4	3,350.94
1/4	124.45	1/4	481.52	1/4	843.42	1/4	1,191.48	1/4	1,550.87	1/4	1,912.79	1/4	2,274.71	1/4	2,636.52	1/4	2,996.69	1/4	3,358.48
1/2	131.97	1/2	489.06	1/2	850.96	1/2	1,198.67	1/2	1,558.41	1/2	1,920.33	1/2	2,282.25	1/2	2,643.96	1/2	3,004.23	1/2	3,366.02
3/4	139.50	3/4	496.60	3/4	858.50	3/4	1,205.87	3/4	1,565.95	3/4	1,927.87	3/4	2,289.79	3/4	2,651.41	3/4	3,011.77	3/4	3,373.55
5	147.02	5	504.14	5	866.04	5	1,213.06	5	1,573.49	5	1,935.41	5	2,297.33	5	2,658.85	5	3,019.31	5	3,381.09
1/4	154.55	1/4	511.68	1/4	873.58	1/4	1,220.27	1/4	1,581.03	1/4	1,942.95	1/4	2,304.87	1/4	2,666.28	1/4	3,026.84	1/4	3,388.63
1/2	162.07	1/2	519.22	1/2	881.12	1/2	1,227.48	1/2	1,588.57	1/2	1,950.48	1/2	2,312.41	1/2	2,673.71	1/2	3,034.38	1/2	3,396.17
3/4	169.60	3/4	526.76	3/4	888.66	3/4	1,234.89	3/4	1,596.11	3/4	1,958.03	3/4	2,319.95	3/4	2,681.14	3/4	3,041.92	3/4	3,403.70
6	177.12	6	534.30	6	896.20	6	1,241.89	6	1,603.65	6	1,965.57	6	2,327.43	6	2,688.57	6	3,049.45	6	3,411.24
1/4	184.53	1/4	541.83	1/4	903.45	1/4	1,249.39	1/4	1,611.19	1/4	1,973.11	1/4	2,335.00	1/4	2,696.00	1/4	3,056.99	1/4	3,418.78
1/2	191.94	1/2	549.37	1/2	910.70	1/2	1,256.89	1/2	1,618.73	1/2	1,980.65	1/2	2,342.57	1/2	2,703.44	1/2	3,064.53	1/2	3,426.31
3/4	199.35	3/4	556.91	3/4	917.95	3/4	1,264.39	3/4	1,626.27	3/4	1,988.19	3/4	2,350.11	3/4	2,710.87	3/4	3,072.07	3/4	3,433.85
7	206.76	7	564.45	7	925.20	7	1,271.89	7	1,633.81	7	1,995.73	7	2,357.65	7	2,718.30	7	3,079.60	7	3,441.39
1/4	214.15	1/4	571.99	1/4	932.40	1/4	1,279.43	1/4	1,641.35	1/4	2,003.27	1/4	2,365.19	1/4	2,725.73	1/4	3,087.14	1/4	3,448.93
1/2	221.54	1/2	579.53	1/2	939.59	1/2	1,286.97	1/2	1,648.89	1/2	2,010.81	1/2	2,372.73	1/2	2,733.16	1/2	3,094.68	1/2	3,456.46
3/4	228.93	3/4	587.07	3/4	946.79	3/4	1,294.51	3/4	1,656.43	3/4	2,018.35	3/4	2,380.27	3/4	2,740.59	3/4	3,102.21	3/4	3,464.00
8	236.33	8	594.61	8	953.99	8	1,302.05	8	1,663.97	8	2,025.89	8	2,387.81	8	2,748.02	8	3,109.75	8	3,471.54
1/4	243.72	1/4	602.15	1/4	961.19	1/4	1,309.59	1/4	1,671.51	1/4	2,033.43	1/4	2,395.35	1/4	2,755.54	1/4	3,117.29	1/4	3,479.07
1/2	251.11	1/2	609.69	1/2	968.38	1/2	1,317.13	1/2	1,679.05	1/2	2,040.97	1/2	2,402.89	1/2	2,763.07	1/2	3,124.83	1/2	3,486.61
3/4	258.50	3/4	617.23	3/4	975.58	3/4	1,324.67	3/4	1,686.59	3/4	2,048.51	3/4	2,410.43	3/4	2,770.59	3/4	3,132.36	3/4	3,494.15
9	265.89	9	624.77	9	982.78	9	1,332.21	9	1,694.13	9	2,056.05	9	2,417.97	9	2,778.12	9	3,139.90	9	3,501.69
1/4	273.29	1/4	632.31	1/4	989.97	1/4	1,339.75	1/4	1,701.67	1/4	2,063.59	1/4	2,425.51	1/4	2,785.65	1/4	3,147.44	1/4	3,509.22
1/2	280.68	1/2	639.85	1/2	997.17	1/2	1,347.29	1/2	1,709.21	1/2	2,071.13	1/2	2,433.05	1/2	2,793.19	1/2	3,154.98	1/2	3,516.76
3/4	288.07	3/4	647.39	3/4	1,004.37	3/4	1,354.83	3/4	1,716.75	3/4	2,078.67	3/4	2,440.59	3/4	2,800.73	3/4	3,162.51	3/4	3,524.30
10	295.46	10	654.93	10	1,011.56	10	1,362.37	10	1,724.29	10	2,086.21	10	2,448.13	10	2,808.26	10	3,170.05	10	3,531.84
1/4	302.85	1/4	662.47	1/4	1,018.76	1/4	1,369.91	1/4	1,731.83	1/4	2,093.75	1/4	2,455.67	1/4	2,815.80	1/4	3,177.59	1/4	3,539.37
1/2	310.25	1/2	670.01	1/2	1,025.96	1/2	1,377.45	1/2	1,739.37	1/2	2,101.29	1/2	2,463.21	1/2	2,823.34	1/2	3,185.12	1/2	3,546.91
3/4	317.64	3/4	677.55	3/4	1,033.15	3/4	1,384.99	3/4	1,746.91	3/4	2,108.83	3/4	2,470.75	3/4	2,830.98	3/4	3,192.66	3/4	3,554.45
11	325.03	11	685.09	11	1,040.35	11	1,392.53	11	1,754.45	11	2,116.37	11	2,478.29	11	2,838.41	11	3,200.20	11	3,561.98
1/4	332.42	1/4	692.63	1/4	1,047.55	1/4	1,400.07	1/4	1,761.99	1/4	2,123.91	1/4	2,485.83	1/4	2,845.95	1/4	3,207.74	1/4	3,569.52
1/2	339.81	1/2	700.17	1/2	1,054.74	1/2	1,407.61	1/2	1,769.53	1/2	2,131.45	1/2	2,493.37	1/2	2,853.49	1/2	3,215.27	1/2	3,577.06
3/4	347.21	3/4	707.71	3/4	1,061.94	3/4	1,415.15	3/4	1,777.07	3/4	2,138.99	3/4	2,500.91	3/4	2,861.02	3/4	3,222.81	3/4	3,584.60

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL

CAPACITY TABLE ONLY APPLIES TO EXTREME HEIGHT OF TANK

CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN AT 2" DIAMETER "HERMETIC" VALVE

GAUGE POINT: (HERMETIC) LOCATED 10'-08" 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.pmacorp.net>



BARGE "EMS 512"

2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		GAUGE HEIGHT 15'-07 3/4"	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
0	3,592.13	0	3,953.92	0	4,315.01	0	4,662.71	0	4,992.14	0	5,315.01	0	5,627.14	0	5,927.14	0	6,227.14	0	6,527.14
1/4	3,599.67	1/4	3,961.46	1/4	4,322.43	1/4	4,669.75	1/4	4,999.53	1/4	5,322.43	1/4	5,634.56	1/4	5,934.56	1/4	6,234.56	1/4	6,534.56
1/2	3,607.21	1/2	3,968.98	1/2	4,329.84	1/2	4,676.78	1/2	5,006.91	1/2	5,329.84	1/2	5,641.97	1/2	5,941.97	1/2	6,241.97	1/2	6,541.97
3/4	3,614.74	3/4	3,976.53	3/4	4,337.26	3/4	4,683.82	3/4	5,014.30	3/4	5,337.26	3/4	5,652.39	3/4	5,952.39	3/4	6,252.39	3/4	6,552.39
1	3,622.28	1	4,004.07	1	4,344.81	1	4,690.86	1	5,021.69	1	5,344.81	1	5,663.94	1	5,963.94	1	6,263.94	1	6,563.94
1/4	3,629.82	1/4	4,011.60	1/4	4,352.07	1/4	4,697.84	1/4	5,029.13	1/4	5,352.07	1/4	5,675.20	1/4	5,975.20	1/4	6,275.20	1/4	6,575.20
1/2	3,637.36	1/2	4,019.14	1/2	4,359.45	1/2	4,704.82	1/2	5,036.56	1/2	5,359.45	1/2	5,682.58	1/2	5,982.58	1/2	6,282.58	1/2	6,582.58
3/4	3,644.89	3/4	4,026.68	3/4	4,366.84	3/4	4,711.80	3/4	5,044.00	3/4	5,366.84	3/4	5,690.97	3/4	5,990.97	3/4	6,290.97	3/4	6,590.97
2	3,652.43	2	4,034.22	2	4,374.23	2	4,718.77	2	5,051.44	2	5,374.23	2	5,698.36	2	6,000.00	2	6,300.00	2	6,600.00
1/4	3,659.97	1/4	4,041.75	1/4	4,381.58	1/4	4,725.72	1/4	5,058.88	1/4	5,381.58	1/4	5,708.50	1/4	6,010.14	1/4	6,310.14	1/4	6,610.14
1/2	3,667.50	1/2	4,049.29	1/2	4,388.94	1/2	4,732.66	1/2	5,066.32	1/2	5,388.94	1/2	5,715.86	1/2	6,017.50	1/2	6,317.50	1/2	6,617.50
3/4	3,675.04	3/4	4,056.83	3/4	4,396.30	3/4	4,739.61	3/4	5,073.76	3/4	5,396.30	3/4	5,723.76	3/4	6,025.00	3/4	6,325.00	3/4	6,625.00
3	3,682.58	3	4,064.36	3	4,403.65	3	4,746.55	3	5,081.20	3	5,403.65	3	5,730.57	3	6,037.50	3	6,337.50	3	6,637.50
1/4	3,690.12	1/4	4,071.90	1/4	4,410.98	1/4	4,753.47	1/4	5,088.64	1/4	5,410.98	1/4	5,738.90	1/4	6,048.94	1/4	6,348.94	1/4	6,648.94
1/2	3,697.65	1/2	4,079.44	1/2	4,418.30	1/2	4,760.38	1/2	5,096.08	1/2	5,418.30	1/2	5,745.22	1/2	6,053.26	1/2	6,353.26	1/2	6,653.26
3/4	3,705.19	3/4	4,086.98	3/4	4,425.63	3/4	4,767.29	3/4	5,103.51	3/4	5,425.63	3/4	5,752.55	3/4	6,060.59	3/4	6,360.59	3/4	6,660.59
4	3,712.73	4	4,094.51	4	4,432.95	4	4,774.21	4	5,110.95	4	5,432.95	4	5,760.87	4	6,067.91	4	6,367.91	4	6,667.91
1/4	3,720.27	1/4	4,102.05	1/4	4,440.24	1/4	4,781.09	1/4	5,118.39	1/4	5,440.24	1/4	5,768.16	1/4	6,075.20	1/4	6,375.20	1/4	6,675.20
1/2	3,727.80	1/2	4,109.59	1/2	4,447.53	1/2	4,787.97	1/2	5,125.83	1/2	5,447.53	1/2	5,775.40	1/2	6,082.44	1/2	6,382.44	1/2	6,682.44
3/4	3,735.34	3/4	4,117.13	3/4	4,454.82	3/4	4,794.85	3/4	5,133.27	3/4	5,454.82	3/4	5,782.69	3/4	6,089.73	3/4	6,389.73	3/4	6,689.73
5	3,742.88	5	4,124.66	5	4,462.11	5	4,801.73	5	5,140.71	5	5,462.11	5	5,790.03	5	6,096.07	5	6,396.07	5	6,696.07
1/4	3,750.41	1/4	4,132.20	1/4	4,469.37	1/4	4,808.58	1/4	5,148.01	1/4	5,469.37	1/4	5,798.29	1/4	6,104.33	1/4	6,404.33	1/4	6,704.33
1/2	3,757.95	1/2	4,139.74	1/2	4,476.63	1/2	4,815.31	1/2	5,155.31	1/2	5,476.63	1/2	5,806.55	1/2	6,111.59	1/2	6,411.59	1/2	6,711.59
3/4	3,765.49	3/4	4,147.27	3/4	4,483.88	3/4	4,822.28	3/4	5,162.61	3/4	5,483.88	3/4	5,814.80	3/4	6,119.84	3/4	6,419.84	3/4	6,719.84
6	3,773.03	6	4,154.81	6	4,491.14	6	4,829.12	6	5,169.91	6	5,491.14	6	5,822.06	6	6,126.10	6	6,426.10	6	6,726.10
1/4	3,780.56	1/4	4,162.35	1/4	4,498.37	1/4	4,835.94	1/4	5,176.23	1/4	5,498.37	1/4	5,830.41	1/4	6,133.45	1/4	6,433.45	1/4	6,733.45
1/2	3,788.10	1/2	4,169.89	1/2	4,505.60	1/2	4,842.76	1/2	5,182.55	1/2	5,505.60	1/2	5,837.64	1/2	6,140.68	1/2	6,440.68	1/2	6,740.68
3/4	3,795.64	3/4	4,177.42	3/4	4,512.83	3/4	4,849.57	3/4	5,189.87	3/4	5,510.87	3/4	5,842.91	3/4	6,147.95	3/4	6,447.95	3/4	6,747.95
7	3,803.17	7	4,184.96	7	4,520.06	7	4,856.39	7	5,195.19	7	5,516.19	7	5,849.23	7	6,154.27	7	6,454.27	7	6,754.27
1/4	3,810.71	1/4	4,192.50	1/4	4,527.26	1/4	4,863.17	1/4	5,200.30	1/4	5,521.30	1/4	5,854.34	1/4	6,159.38	1/4	6,459.38	1/4	6,759.38
1/2	3,818.25	1/2	4,200.03	1/2	4,534.45	1/2	4,869.96	1/2	5,205.41	1/2	5,526.41	1/2	5,860.45	1/2	6,164.49	1/2	6,464.49	1/2	6,764.49
3/4	3,825.79	3/4	4,207.57	3/4	4,541.65	3/4	4,876.75	3/4	5,210.51	3/4	5,531.51	3/4	5,865.55	3/4	6,171.59	3/4	6,471.59	3/4	6,771.59
8	3,833.32	8	4,215.11	8	4,548.84	8	4,883.53	8	5,215.62	8	5,536.62	8	5,870.66	8	6,176.70	8	6,476.70	8	6,776.70
1/4	3,840.86	1/4	4,222.64	1/4	4,556.01	1/4	4,890.29	1/4	5,220.73	1/4	5,541.73	1/4	5,875.77	1/4	6,181.81	1/4	6,481.81	1/4	6,781.81
1/2	3,848.40	1/2	4,230.17	1/2	4,563.17	1/2	4,897.05	1/2	5,225.84	1/2	5,546.84	1/2	5,880.88	1/2	6,186.92	1/2	6,486.92	1/2	6,786.92
3/4	3,855.93	3/4	4,237.71	3/4	4,570.33	3/4	4,903.80	3/4	5,230.95	3/4	5,551.95	3/4	5,885.99	3/4	6,192.03	3/4	6,492.03	3/4	6,792.03
9	3,863.47	9	4,245.24	9	4,577.49	9	4,910.56	9	5,236.06	9	5,557.06	9	5,891.10	9	6,197.14	9	6,497.14	9	6,797.14
1/4	3,871.01	1/4	4,252.75	1/4	4,584.62	1/4	4,917.29	1/4	5,241.17	1/4	5,562.17	1/4	5,896.21	1/4	6,202.25	1/4	6,502.25	1/4	6,802.25
1/2	3,878.55	1/2	4,260.27	1/2	4,591.76	1/2	4,924.01	1/2	5,246.28	1/2	5,567.28	1/2	5,901.32	1/2	6,207.36	1/2	6,507.36	1/2	6,807.36
3/4	3,886.08	3/4	4,267.78	3/4	4,598.89	3/4	4,930.74	3/4	5,251.39	3/4	5,572.39	3/4	5,906.43	3/4	6,212.47	3/4	6,512.47	3/4	6,812.47
10	3,893.62	10	4,275.29	10	4,606.02	10	4,937.46	10	5,256.50	10	5,577.50	10	5,911.54	10	6,217.58	10	6,517.58	10	6,817.58
1/4	3,901.16	1/4	4,282.77	1/4	4,613.12	1/4	4,944.15	1/4	5,261.61	1/4	5,582.61	1/4	5,917.65	1/4	6,222.69	1/4	6,522.69	1/4	6,822.69
1/2	3,908.70	1/2	4,290.26	1/2	4,620.22	1/2	4,950.84	1/2	5,266.72	1/2	5,587.72	1/2	5,922.76	1/2	6,227.80	1/2	6,527.80	1/2	6,827.80
3/4	3,916.23	3/4	4,297.74	3/4	4,627.32	3/4	4,957.54	3/4	5,271.83	3/4	5,592.83	3/4	5,927.87	3/4	6,232.91	3/4	6,532.91	3/4	6,832.91
11	3,923.77	11	4,305.22	11	4,634.42	11	4,964.23	11	5,276.94	11	5,597.94	11	5,932.98	11	6,238.02	11	6,538.02	11	6,838.02
1/4	3,931.31	1/4	4,312.74	1/4	4,641.49	1/4	4,971.21	1/4	5,282.05	1/4	5,603.05	1/4	5,938.09	1/4	6,239.13	1/4	6,539.13	1/4	6,839.13
1/2	3,938.84	1/2	4,320.27	1/2	4,648.57	1/2	4,978.18	1/2	5,287.16	1/2	5,608.16	1/2	5,943.20	1/2	6,244.24	1/2	6,544.24	1/2	6,844.24
3/4	3,946.38	3/4	4,327.79	3/4	4,655.64	3/4	4,985.16	3/4	5,292.27	3/4	5,613.27	3/4	5,949.31	3/4	6,249.35	3/4	6,549.35	3/4	6,849.35

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/24/2019 CL
CALCULATED: 01/25/2019 CL
PRINTED: 01/25/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2019

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

Paul J. Mac



BARGE "EMS 512"

3 PORT
INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

0 FT.			1 FT.			2 FT.			3 FT.			4 FT.			5 FT.			6 FT.			7 FT.			8 FT.			9 FT.		
IN			IN			IN			IN			IN			IN			IN			IN			IN			IN		
0	21.25	0	352.94	0	711.92	0	1,071.94	0	1,432.02	0	1,792.26	0	2,152.48	0	2,512.64	0	2,872.60	0	3,231.69	0	3,592.64	0	3,952.64	0	4,312.64	0	4,672.64	0	5,032.64
1/4	25.46	1/4	360.30	1/4	719.42	1/4	1,079.44	1/4	1,439.52	1/4	1,799.77	1/4	2,159.98	1/4	2,520.14	1/4	2,880.09	1/4	3,240.09	1/4	3,600.09	1/4	3,960.09	1/4	4,320.09	1/4	4,680.09	1/4	5,040.09
1/2	29.67	1/2	367.66	1/2	726.93	1/2	1,086.93	1/2	1,447.03	1/2	1,807.27	1/2	2,167.48	1/2	2,527.64	1/2	2,887.58	1/2	3,247.58	1/2	3,607.58	1/2	3,967.58	1/2	4,327.58	1/2	4,687.58	1/2	5,047.58
3/4	33.87	3/4	375.01	3/4	734.43	3/4	1,094.43	3/4	1,454.53	3/4	1,814.78	3/4	2,174.99	3/4	2,535.15	3/4	2,895.07	3/4	3,255.07	3/4	3,615.07	3/4	3,975.07	3/4	4,335.07	3/4	4,695.07	3/4	5,055.07
1	38.08	1	382.37	1	741.94	1	1,101.92	1	1,462.04	1	1,822.28	1	2,182.49	1	2,542.65	1	2,902.56	1	3,262.56	1	3,622.56	1	3,982.56	1	4,342.56	1	4,702.56	1	5,062.56
1/4	43.54	1/4	389.73	1/4	749.44	1/4	1,109.42	1/4	1,469.54	1/4	1,829.79	1/4	2,189.99	1/4	2,550.15	1/4	2,910.05	1/4	3,270.05	1/4	3,630.05	1/4	3,990.05	1/4	4,350.05	1/4	4,710.05	1/4	5,070.05
1/2	48.99	1/2	397.09	1/2	756.95	1/2	1,116.91	1/2	1,477.05	1/2	1,837.29	1/2	2,197.50	1/2	2,557.66	1/2	2,917.54	1/2	3,277.54	1/2	3,637.54	1/2	3,997.54	1/2	4,357.54	1/2	4,717.54	1/2	5,077.54
3/4	54.45	3/4	404.44	3/4	764.45	3/4	1,124.41	3/4	1,484.55	3/4	1,844.80	3/4	2,205.00	3/4	2,565.16	3/4	2,925.03	3/4	3,285.03	3/4	3,645.03	3/4	3,995.03	3/4	4,355.03	3/4	4,715.03	3/4	5,075.03
2	59.91	2	411.80	2	771.96	2	1,131.91	2	1,492.06	2	1,852.30	2	2,212.50	2	2,572.66	2	2,932.51	2	3,292.51	2	3,652.51	2	3,992.51	2	4,352.51	2	4,712.51	2	5,072.51
1/4	66.61	1/4	419.29	1/4	779.46	1/4	1,139.40	1/4	1,499.56	1/4	1,859.81	1/4	2,220.01	1/4	2,580.16	1/4	2,940.00	1/4	3,300.00	1/4	3,660.00	1/4	3,990.00	1/4	4,350.00	1/4	4,710.00	1/4	5,070.00
1/2	73.32	1/2	426.77	1/2	786.97	1/2	1,146.90	1/2	1,507.07	1/2	1,867.31	1/2	2,227.51	1/2	2,587.67	1/2	2,947.49	1/2	3,307.49	1/2	3,667.49	1/2	3,997.49	1/2	4,357.49	1/2	4,717.49	1/2	5,077.49
3/4	80.03	3/4	434.26	3/4	794.47	3/4	1,154.39	3/4	1,514.57	3/4	1,874.82	3/4	2,235.01	3/4	2,595.17	3/4	2,954.98	3/4	3,314.98	3/4	3,674.98	3/4	3,994.98	3/4	4,354.98	3/4	4,714.98	3/4	5,074.98
3	86.74	3	441.74	3	801.97	3	1,161.89	3	1,522.08	3	1,882.32	3	2,242.52	3	2,602.67	3	2,962.47	3	3,322.47	3	3,682.47	3	3,992.47	3	4,352.47	3	4,712.47	3	5,072.47
1/4	94.15	1/4	449.25	1/4	809.48	1/4	1,169.38	1/4	1,529.58	1/4	1,889.83	1/4	2,250.02	1/4	2,610.18	1/4	2,969.96	1/4	3,329.96	1/4	3,689.96	1/4	3,999.96	1/4	4,359.96	1/4	4,719.96	1/4	5,079.96
1/2	101.56	1/2	456.75	1/2	816.98	1/2	1,176.88	1/2	1,537.09	1/2	1,897.33	1/2	2,257.52	1/2	2,617.68	1/2	2,977.45	1/2	3,337.45	1/2	3,697.45	1/2	3,997.45	1/2	4,357.45	1/2	4,717.45	1/2	5,077.45
3/4	108.97	3/4	464.26	3/4	824.49	3/4	1,184.38	3/4	1,544.59	3/4	1,904.84	3/4	2,265.03	3/4	2,625.19	3/4	2,984.94	3/4	3,344.94	3/4	3,704.94	3/4	3,994.94	3/4	4,354.94	3/4	4,714.94	3/4	5,074.94
4	116.39	4	471.76	4	831.99	4	1,191.87	4	1,552.10	4	1,912.34	4	2,272.53	4	2,632.68	4	2,992.43	4	3,352.43	4	3,712.43	4	3,992.43	4	4,352.43	4	4,712.43	4	5,072.43
1/4	123.88	1/4	479.27	1/4	839.50	1/4	1,199.37	1/4	1,559.60	1/4	1,919.85	1/4	2,280.03	1/4	2,640.18	1/4	2,999.92	1/4	3,359.92	1/4	3,719.92	1/4	3,999.92	1/4	4,359.92	1/4	4,719.92	1/4	5,079.92
1/2	131.37	1/2	486.77	1/2	847.00	1/2	1,206.87	1/2	1,567.11	1/2	1,927.35	1/2	2,287.54	1/2	2,647.69	1/2	3,007.41	1/2	3,367.41	1/2	3,727.41	1/2	3,997.41	1/2	4,357.41	1/2	4,717.41	1/2	5,077.41
3/4	138.86	3/4	494.28	3/4	854.51	3/4	1,214.38	3/4	1,574.61	3/4	1,934.86	3/4	2,295.04	3/4	2,655.19	3/4	3,014.89	3/4	3,374.89	3/4	3,734.89	3/4	3,994.89	3/4	4,354.89	3/4	4,714.89	3/4	5,074.89
5	146.35	5	501.78	5	862.01	5	1,221.88	5	1,582.12	5	1,942.36	5	2,302.54	5	2,662.69	5	3,022.38	5	3,382.38	5	3,742.38	5	3,992.38	5	4,352.38	5	4,712.38	5	5,072.38
1/4	153.84	1/4	509.29	1/4	869.52	1/4	1,229.38	1/4	1,589.63	1/4	1,949.87	1/4	2,310.05	1/4	2,670.19	1/4	3,029.87	1/4	3,389.87	1/4	3,749.87	1/4	3,999.87	1/4	4,359.87	1/4	4,719.87	1/4	5,079.87
1/2	161.33	1/2	516.79	1/2	877.02	1/2	1,236.89	1/2	1,597.13	1/2	1,957.38	1/2	2,317.55	1/2	2,677.69	1/2	3,037.36	1/2	3,397.36	1/2	3,757.36	1/2	3,997.36	1/2	4,357.36	1/2	4,717.36	1/2	5,077.36
3/4	168.82	3/4	524.30	3/4	884.53	3/4	1,244.39	3/4	1,604.64	3/4	1,964.88	3/4	2,325.05	3/4	2,685.19	3/4	3,044.85	3/4	3,404.85	3/4	3,764.85	3/4	3,994.85	3/4	4,354.85	3/4	4,714.85	3/4	5,074.85
6	176.31	6	531.80	6	892.03	6	1,251.90	6	1,612.14	6	1,972.39	6	2,332.56	6	2,692.70	6	3,052.34	6	3,412.34	6	3,772.34	6	3,992.34	6	4,352.34	6	4,712.34	6	5,072.34
1/4	183.68	1/4	539.31	1/4	899.53	1/4	1,259.40	1/4	1,619.65	1/4	1,979.89	1/4	2,340.06	1/4	2,700.20	1/4	3,059.83	1/4	3,419.83	1/4	3,779.83	1/4	3,999.83	1/4	4,359.83	1/4	4,719.83	1/4	5,079.83
1/2	191.05	1/2	546.81	1/2	907.03	1/2	1,266.91	1/2	1,627.15	1/2	1,987.40	1/2	2,347.56	1/2	2,707.70	1/2	3,067.32	1/2	3,427.32	1/2	3,787.32	1/2	3,997.32	1/2	4,357.32	1/2	4,717.32	1/2	5,077.32
3/4	198.43	3/4	554.32	3/4	914.53	3/4	1,274.41	3/4	1,634.66	3/4	1,994.90	3/4	2,355.07	3/4	2,715.20	3/4	3,074.81	3/4	3,434.81	3/4	3,794.81	3/4	3,994.81	3/4	4,354.81	3/4	4,714.81	3/4	5,074.81
7	205.80	7	561.82	7	922.03	7	1,281.92	7	1,642.16	7	2,002.41	7	2,362.57	7	2,722.70	7	3,082.30	7	3,442.30	7	3,802.30	7	3,992.30	7	4,352.30	7	4,712.30	7	5,072.30
1/4	213.16	1/4	569.33	1/4	929.52	1/4	1,289.42	1/4	1,649.67	1/4	2,009.91	1/4	2,370.07	1/4	2,730.21	1/4	3,089.79	1/4	3,449.79	1/4	3,809.79	1/4	3,999.79	1/4	4,359.79	1/4	4,719.79	1/4	5,079.79
1/2	220.51	1/2	576.83	1/2	937.02	1/2	1,296.93	1/2	1,657.17	1/2	2,017.42	1/2	2,377.58	1/2	2,737.71	1/2	3,097.27	1/2	3,457.27	1/2	3,817.27	1/2	3,997.27	1/2	4,357.27	1/2	4,717.27	1/2	5,077.27
3/4	227.87	3/4	584.34	3/4	944.52	3/4	1,304.43	3/4	1,664.68	3/4	2,024.92	3/4	2,385.08	3/4	2,745.21	3/4	3,104.76	3/4	3,464.76	3/4	3,824.76	3/4	3,994.76	3/4	4,354.76	3/4	4,714.76	3/4	5,074.76
8	235.23	8	591.84	8	952.01	8	1,311.94	8	1,672.18	8	2,032.43	8	2,392.58	8	2,752.71	8	3,112.25	8	3,472.25	8	3,832.25	8	3,992.25	8	4,352.25	8	4,712.25	8	5,072.25
1/4	242.59	1/4	599.35	1/4	959.51	1/4	1,319.44	1/4	1,679.69	1/4	2,039.93	1/4	2,400.09	1/4	2,760.22	1/4	3,119.74	1/4	3,479.74	1/4	3,83,85								



BARGE "EMS 512"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		GAUGE HEIGHT 15'-08 1/2"	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
0	3,550.63	0	3,744.57	0	3,937.83	0	4,117.74	0	4,280.19	0	4,431.92	0	4,578.21	0	4,719.04	0	4,854.41	0	4,984.32
1/4	3,554.67	1/4	3,748.61	1/4	3,941.75	1/4	4,121.29	1/4	4,284.12	1/4	4,435.85	1/4	4,582.14	1/4	4,722.97	1/4	4,858.34	1/4	4,988.25
1/2	3,558.71	1/2	3,752.66	1/2	3,945.67	1/2	4,124.83	1/2	4,287.06	1/2	4,438.79	1/2	4,585.08	1/2	4,725.91	1/2	4,860.28	1/2	4,990.19
3/4	3,562.75	3/4	3,756.70	3/4	3,949.59	3/4	4,128.37	3/4	4,291.99	3/4	4,442.81	3/4	4,589.10	3/4	4,729.93	3/4	4,864.26	3/4	4,994.37
1	3,566.79	1	3,760.74	1	3,953.51	1	4,131.92	1	4,295.93	1	4,446.82	1	4,593.01	1	4,733.94	1	4,868.27	1	4,998.38
1/4	3,570.83	1/4	3,764.78	1/4	3,957.40	1/4	4,135.41	1/4	4,299.92	1/4	4,450.33	1/4	4,596.42	1/4	4,737.95	1/4	4,872.28	1/4	4,999.92
1/2	3,574.87	1/2	3,768.82	1/2	3,961.29	1/2	4,138.91	1/2	4,303.91	1/2	4,454.83	1/2	4,600.92	1/2	4,739.96	1/2	4,876.29	1/2	5,003.96
3/4	3,578.91	3/4	3,772.86	3/4	3,965.18	3/4	4,142.41	3/4	4,307.89	3/4	4,458.84	3/4	4,604.95	3/4	4,741.99	3/4	4,879.32	3/4	5,007.99
2	3,582.95	2	3,776.90	2	3,969.07	2	4,145.91	2	4,311.88	2	4,462.75	2	4,608.86	2	4,745.93	2	4,883.25	2	5,011.99
1/4	3,586.99	1/4	3,780.94	1/4	3,972.94	1/4	4,149.37	1/4	4,315.87	1/4	4,466.75	1/4	4,612.86	1/4	4,749.96	1/4	4,887.28	1/4	5,015.99
1/2	3,591.04	1/2	3,784.98	1/2	3,976.80	1/2	4,152.83	1/2	4,319.86	1/2	4,470.70	1/2	4,616.79	1/2	4,753.97	1/2	4,891.30	1/2	5,019.99
3/4	3,595.08	3/4	3,789.02	3/4	3,980.66	3/4	4,156.30	3/4	4,323.84	3/4	4,474.64	3/4	4,620.73	3/4	4,757.98	3/4	4,895.32	3/4	5,023.99
3	3,599.12	3	3,793.06	3	3,984.52	3	4,159.76	3	4,327.83	3	4,478.57	3	4,624.66	3	4,761.99	3	4,899.34	3	5,027.99
1/4	3,603.16	1/4	3,797.10	1/4	3,988.35	1/4	4,163.20	1/4	4,331.82	1/4	4,482.51	1/4	4,628.60	1/4	4,765.99	1/4	4,903.36	1/4	5,031.99
1/2	3,607.20	1/2	3,801.14	1/2	3,992.17	1/2	4,166.63	1/2	4,335.81	1/2	4,486.45	1/2	4,632.59	1/2	4,769.99	1/2	4,907.38	1/2	5,035.99
3/4	3,611.24	3/4	3,805.18	3/4	3,996.00	3/4	4,170.07	3/4	4,339.79	3/4	4,490.39	3/4	4,636.58	3/4	4,773.99	3/4	4,911.40	3/4	5,039.99
4	3,615.28	4	3,809.22	4	3,999.83	4	4,173.50	4	4,343.78	4	4,494.33	4	4,640.57	4	4,777.99	4	4,915.42	4	5,043.99
1/4	3,619.32	1/4	3,813.26	1/4	4,003.62	1/4	4,176.90	1/4	4,347.77	1/4	4,498.26	1/4	4,644.56	1/4	4,781.99	1/4	4,919.44	1/4	5,047.99
1/2	3,623.36	1/2	3,817.30	1/2	4,007.42	1/2	4,180.31	1/2	4,351.76	1/2	4,501.20	1/2	4,648.55	1/2	4,785.99	1/2	4,923.46	1/2	5,051.99
3/4	3,627.40	3/4	3,821.34	3/4	4,011.21	3/4	4,183.71	3/4	4,355.74	3/4	4,505.14	3/4	4,652.54	3/4	4,789.99	3/4	4,927.48	3/4	5,055.99
5	3,631.44	5	3,825.38	5	4,015.01	5	4,187.11	5	4,359.73	5	4,509.03	5	4,656.53	5	4,793.99	5	4,931.50	5	5,059.99
1/4	3,635.48	1/4	3,829.42	1/4	4,018.77	1/4	4,190.48	1/4	4,363.58	1/4	4,512.87	1/4	4,660.57	1/4	4,797.99	1/4	4,935.52	1/4	5,063.99
1/2	3,639.52	1/2	3,833.47	1/2	4,022.53	1/2	4,193.85	1/2	4,367.44	1/2	4,516.81	1/2	4,664.56	1/2	4,801.99	1/2	4,939.54	1/2	5,067.99
3/4	3,643.56	3/4	3,837.51	3/4	4,026.30	3/4	4,197.21	3/4	4,371.29	3/4	4,520.79	3/4	4,668.55	3/4	4,805.99	3/4	4,943.56	3/4	5,071.99
6	3,647.60	6	3,841.55	6	4,030.06	6	4,200.58	6	4,375.14	6	4,524.73	6	4,672.54	6	4,809.99	6	4,947.58	6	5,075.99
1/4	3,651.64	1/4	3,845.59	1/4	4,033.80	1/4	4,203.92	1/4	4,378.02	1/4	4,528.67	1/4	4,676.53	1/4	4,813.99	1/4	4,951.60	1/4	5,079.99
1/2	3,655.68	1/2	3,849.63	1/2	4,037.53	1/2	4,207.26	1/2	4,380.89	1/2	4,532.01	1/2	4,680.52	1/2	4,817.99	1/2	4,955.62	1/2	5,083.99
3/4	3,659.72	3/4	3,853.67	3/4	4,041.26	3/4	4,210.59	3/4	4,383.77	3/4	4,535.99	3/4	4,684.51	3/4	4,821.99	3/4	4,959.64	3/4	5,087.99
7	3,663.76	7	3,857.71	7	4,045.00	7	4,213.93	7	4,386.64	7	4,539.99	7	4,688.55	7	4,825.99	7	4,963.66	7	5,091.99
1/4	3,667.80	1/4	3,861.75	1/4	4,048.70	1/4	4,217.24	1/4	4,388.30	1/4	4,543.99	1/4	4,692.56	1/4	4,829.99	1/4	4,967.68	1/4	5,095.99
1/2	3,671.85	1/2	3,865.79	1/2	4,052.40	1/2	4,220.55	1/2	4,389.95	1/2	4,548.03	1/2	4,696.57	1/2	4,833.99	1/2	4,969.70	1/2	5,099.99
3/4	3,675.89	3/4	3,869.83	3/4	4,056.10	3/4	4,223.85	3/4	4,391.61	3/4	4,552.01	3/4	4,700.59	3/4	4,837.99	3/4	4,973.72	3/4	5,103.99
8	3,679.93	8	3,873.87	8	4,059.80	8	4,227.16	8	4,393.26	8	4,556.01	8	4,704.59	8	4,841.99	8	4,977.74	8	5,107.99
1/4	3,683.97	1/4	3,877.91	1/4	4,063.47	1/4	4,230.44	1/4	4,396.51	1/4	4,560.01	1/4	4,708.59	1/4	4,845.99	1/4	4,979.76	1/4	5,111.99
1/2	3,688.01	1/2	3,881.94	1/2	4,067.13	1/2	4,233.72	1/2	4,399.56	1/2	4,564.01	1/2	4,712.59	1/2	4,849.99	1/2	4,981.78	1/2	5,115.99
3/4	3,692.05	3/4	3,885.98	3/4	4,070.80	3/4	4,236.99	3/4	4,401.61	3/4	4,568.01	3/4	4,716.59	3/4	4,853.99	3/4	4,985.80	3/4	5,119.99
9	3,696.09	9	3,890.01	9	4,074.47	9	4,240.27	9	4,405.62	9	4,572.01	9	4,719.59	9	4,857.99	9	4,989.82	9	5,123.99
1/4	3,700.13	1/4	3,894.03	1/4	4,078.10	1/4	4,243.52	1/4	4,408.67	1/4	4,576.01	1/4	4,723.59	1/4	4,861.99	1/4	4,993.84	1/4	5,127.99
1/2	3,704.17	1/2	3,898.05	1/2	4,081.74	1/2	4,246.76	1/2	4,412.71	1/2	4,581.01	1/2	4,727.59	1/2	4,865.99	1/2	4,997.86	1/2	5,131.99
3/4	3,708.21	3/4	3,902.08	3/4	4,085.38	3/4	4,250.00	3/4	4,417.76	3/4	4,585.01	3/4	4,731.59	3/4	4,869.99	3/4	5,001.88	3/4	5,135.99
10	3,712.25	10	3,906.08	10	4,089.01	10	4,253.25	10	4,421.01	10	4,589.01	10	4,735.59	10	4,873.99	10	5,005.90	10	5,139.99
1/4	3,716.29	1/4	3,910.07	1/4	4,092.62	1/4	4,256.46	1/4	4,425.01	1/4	4,593.01	1/4	4,739.59	1/4	4,877.99	1/4	5,009.92	1/4	5,143.99
1/2	3,720.33	1/2	3,914.05	1/2	4,096.23	1/2	4,259.67	1/2	4,429.01	1/2	4,597.01	1/2	4,743.59	1/2	4,881.99	1/2	5,013.94	1/2	5,147.99
3/4	3,724.37	3/4	3,918.04	3/4	4,099.83	3/4	4,262.88	3/4	4,433.01	3/4	4,601.01	3/4	4,747.59	3/4	4,885.99	3/4	5,017.96	3/4	5,151.99
11	3,728.41	11	3,922.02	11	4,103.44	11	4,266.09	11	4,437.01	11	4,605.01	11	4,751.59	11	4,889.99	11	5,021.98	11	5,155.99
1/4	3,732.45	1/4	3,925.97	1/4	4,107.01	1/4	4,269.61	1/4	4,441.01	1/4	4,609.01	1/4	4,755.59	1/4	4,893.99	1/4	5,025.99	1/4	5,159.99
1/2	3,736.49	1/2	3,929.92	1/2	4,110.59	1/2	4,273.14	1/2	4,445.01	1/2	4,613.01	1/2	4,759.59	1/2	4,897.99	1/2	5,029.99	1/2	5,163.99
3/4	3,740.53	3/4	3,933.88	3/4	4,114.17	3/4	4,276.66	3/4	4,449.01	3/4	4,617.01	3/4	4,763.59	3/4	4,901.99	3/4	5,033.99	3/4	5,167.99

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY

STRAPPED: 01/24/2019 CL
CALCULATED: 01/25/2019 CL
PRINTED: 01/25/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2019

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

Joe J. J. J.



GAUGE HEIGHT 15'-08 1/4"

0 FT.			1 FT.			2 FT.			3 FT.			4 FT.			5 FT.			6 FT.			7 FT.			8 FT.			9 FT.		
IN			IN			IN			IN			IN			IN			IN			IN			IN					
0	21.22	0	351.95	0	709.89	0	1,057.55	0	1,410.16	0	1,768.73	0	2,127.79	0	2,486.80	0	2,843.92	0	3,201.67										
1/4	25.42	1/4	359.29	1/4	717.37	1/4	1,064.69	1/4	1,417.58	1/4	1,776.21	1/4	2,135.27	1/4	2,494.28	1/4	2,851.38	1/4	3,209.10										
1/2	29.63	1/2	366.63	1/2	724.86	1/2	1,071.84	1/2	1,425.00	1/2	1,783.69	1/2	2,142.75	1/2	2,501.76	1/2	2,858.85	1/2	3,216.53										
3/4	33.83	3/4	373.96	3/4	732.34	3/4	1,078.99	3/4	1,432.42	3/4	1,791.17	3/4	2,150.23	3/4	2,509.24	3/4	2,866.31	3/4	3,223.96										
1	38.03	1	381.30	1	739.82	1	1,086.13	1	1,439.84	1	1,798.65	1	2,157.71	1	2,516.72	1	2,873.78	1	3,231.39										
1/4	43.47	1/4	388.63	1/4	747.30	1/4	1,093.28	1/4	1,447.26	1/4	1,806.13	1/4	2,165.19	1/4	2,524.20	1/4	2,881.23	1/4	3,238.83										
1/2	48.91	1/2	395.97	1/2	754.79	1/2	1,100.42	1/2	1,454.68	1/2	1,813.62	1/2	2,172.67	1/2	2,531.68	1/2	2,888.69	1/2	3,246.26										
3/4	54.35	3/4	403.30	3/4	762.27	3/4	1,107.57	3/4	1,462.10	3/4	1,821.10	3/4	2,180.15	3/4	2,539.15	3/4	2,896.15	3/4	3,253.69										
2	59.79	2	410.64	2	768.75	2	1,114.72	2	1,469.52	2	1,828.58	2	2,187.63	2	2,546.63	2	2,903.61	2	3,261.12										
1/4	66.47	1/4	418.10	1/4	777.24	1/4	1,121.86	1/4	1,476.98	1/4	1,836.06	1/4	2,195.11	1/4	2,554.11	1/4	2,911.07	1/4	3,268.55										
1/2	73.15	1/2	425.57	1/2	784.72	1/2	1,129.01	1/2	1,484.46	1/2	1,843.54	1/2	2,202.59	1/2	2,561.59	1/2	2,918.53	1/2	3,275.98										
3/4	78.82	3/4	433.03	3/4	792.20	3/4	1,136.15	3/4	1,491.94	3/4	1,851.02	3/4	2,210.07	3/4	2,569.07	3/4	2,925.98	3/4	3,283.41										
3	86.50	3	440.50	3	799.69	3	1,143.30	3	1,499.41	3	1,888.43	3	2,247.46	3	2,576.55	3	2,933.44	3	3,290.84										
1/4	93.89	1/4	447.98	1/4	806.92	1/4	1,150.69	1/4	1,506.89	1/4	1,865.98	1/4	2,225.02	1/4	2,584.03	1/4	2,940.90	1/4	3,298.29										
1/2	101.28	1/2	455.46	1/2	814.16	1/2	1,158.09	1/2	1,514.37	1/2	1,873.46	1/2	2,232.50	1/2	2,591.51	1/2	2,948.36	1/2	3,305.73										
3/4	108.67	3/4	462.95	3/4	821.39	3/4	1,165.48	3/4	1,521.85	3/4	1,880.95	3/4	2,239.98	3/4	2,598.99	3/4	2,955.81	3/4	3,313.18										
4	116.06	4	470.43	4	828.63	4	1,172.88	4	1,529.33	4	1,888.43	4	2,247.46	4	2,606.46	4	2,963.27	4	3,320.62										
1/4	123.53	1/4	477.91	1/4	835.80	1/4	1,180.28	1/4	1,536.81	1/4	1,895.91	1/4	2,254.94	1/4	2,613.85	1/4	2,970.73	1/4	3,328.07										
1/2	131.01	1/2	485.40	1/2	842.98	1/2	1,187.68	1/2	1,544.30	1/2	1,903.39	1/2	2,262.42	1/2	2,621.23	1/2	2,978.19	1/2	3,335.51										
3/4	138.48	3/4	492.88	3/4	850.15	3/4	1,195.09	3/4	1,551.78	3/4	1,910.87	3/4	2,269.90	3/4	2,628.82	3/4	2,985.64	3/4	3,342.96										
5	145.96	5	500.36	5	857.33	5	1,202.49	5	1,559.26	5	1,918.35	5	2,277.38	5	2,636.00	5	2,993.50	5	3,350.41										
1/4	153.42	1/4	507.85	1/4	864.50	1/4	1,209.89	1/4	1,566.74	1/4	1,925.83	1/4	2,284.86	1/4	2,643.37	1/4	3,000.56	1/4	3,357.85										
1/2	160.89	1/2	515.33	1/2	871.67	1/2	1,217.30	1/2	1,574.22	1/2	1,933.31	1/2	2,292.34	1/2	2,650.75	1/2	3,008.02	1/2	3,365.30										
3/4	168.36	3/4	522.81	3/4	878.84	3/4	1,224.70	3/4	1,581.70	3/4	1,940.79	3/4	2,299.82	3/4	2,658.12	3/4	3,015.47	3/4	3,372.75										
6	175.63	6	530.29	6	883.17	6	1,232.10	6	1,589.18	6	1,948.28	6	2,307.30	6	2,665.49	6	3,022.93	6	3,380.19										
1/4	183.18	1/4	537.78	1/4	893.17	1/4	1,239.52	1/4	1,596.66	1/4	1,955.76	1/4	2,314.78	1/4	2,672.86	1/4	3,030.39	1/4	3,387.64										
1/2	190.54	1/2	545.26	1/2	900.32	1/2	1,246.94	1/2	1,604.14	1/2	1,963.24	1/2	2,322.26	1/2	2,680.23	1/2	3,037.85	1/2	3,395.09										
3/4	197.89	3/4	552.74	3/4	907.47	3/4	1,254.35	3/4	1,611.63	3/4	1,970.72	3/4	2,329.73	3/4	2,687.60	3/4	3,045.31	3/4	3,402.53										
7	205.24	7	560.23	7	914.62	7	1,261.77	7	1,619.11	7	1,978.20	7	2,337.21	7	2,694.98	7	3,052.76	7	3,409.98										
1/4	212.58	1/4	567.71	1/4	921.77	1/4	1,268.19	1/4	1,626.59	1/4	1,985.68	1/4	2,344.69	1/4	2,702.35	1/4	3,060.23	1/4	3,417.43										
1/2	219.91	1/2	575.19	1/2	928.92	1/2	1,276.61	1/2	1,634.07	1/2	1,993.16	1/2	2,352.17	1/2	2,709.72	1/2	3,067.69	1/2	3,424.87										
3/4	227.25	3/4	582.68	3/4	936.06	3/4	1,284.03	3/4	1,641.55	3/4	2,000.64	3/4	2,359.65	3/4	2,717.09	3/4	3,075.16	3/4	3,432.32										
8	234.58	8	590.16	8	943.21	8	1,291.45	8	1,649.03	8	2,008.12	8	2,367.13	8	2,723.46	8	3,082.62	8	3,439.77										
1/4	241.92	1/4	597.64	1/4	950.36	1/4	1,298.87	1/4	1,656.51	1/4	2,015.60	1/4	2,374.61	1/4	2,731.93	1/4	3,090.09	1/4	3,447.21										
1/2	249.25	1/2	605.13	1/2	957.50	1/2	1,306.29	1/2	1,663.99	1/2	2,023.08	1/2	2,382.09	1/2	2,739.39	1/2	3,097.55	1/2	3,454.66										
3/4	256.59	3/4	612.61	3/4	964.65	3/4	1,313.71	3/4	1,671.47	3/4	2,030.56	3/4	2,389.57	3/4	2,746.86	3/4	3,105.02	3/4	3,462.11										
9	263.93	9	620.09	9	971.79	9	1,321.13	9	1,678.96	9	2,038.04	9	2,397.05	9	2,754.33	9	3,112.48	9	3,468.55										
1/4	271.26	1/4	627.57	1/4	978.94	1/4	1,328.55	1/4	1,686.44	1/4	2,045.52	1/4	2,404.53	1/4	2,761.79	1/4	3,119.92	1/4	3,474.00										
1/2	278.60	1/2	635.06	1/2	986.09	1/2	1,335.97	1/2	1,693.92	1/2	2,050.00	1/2	2,412.01	1/2	2,769.26	1/2	3,127.35	1/2	3,478.45										
3/4	285.93	3/4	642.54	3/4	993.23	3/4	1,343.39	3/4	1,701.40	3/4	2,060.48	3/4	2,419.49	3/4	2,776.73	3/4	3,134.79	3/4	3,482.90										
10	293.27	10	650.02	10	1,000.38	10	1,350.80	10	1,708.88	10	2,067.96	10	2,426.97	10	2,784.19	10	3,142.22	10	3,487.35										
1/4	300.60	1/4	657.51	1/4	1,007.52	1/4	1,358.24	1/4	1,716.36	1/4	2,075.44	1/4	2,434.44	1/4	2,791.66	1/4	3,149.65	1/4	3,491.37										
1/2	307.94	1/2	664.99	1/2	1,014.67	1/2	1,365.64	1/2	1,723.84	1/2	2,082.92	1/2	2,441.92	1/2	2,799.12	1/2	3,157.08	1/2	3,495.39										
3/4	315.28	3/4	672.47	3/4	1,021.82	3/4	1,373.06	3/4	1,731.32	3/4	2,090.40	3/4	2,449.40	3/4	2,808.59	3/4	3,164.52	3/4	3,499.41										
11	322.61	11	679.96	11	1,028.96	11	1,380.48	11	1,738.80	11	2,097.88	11	2,456.88	11	2,814.05	11	3,171.95	11	3,503.43										
1/4	329.95	1/4	687.44	1/4	1,036.11	1/4	1,387.90	1/4	1,746.29	1/4	2,105.36	1/4	2,464.36	1/4	2,821.52	1/4	3,179.38	1/4	3,507.45										
1/2	337.28	1/2	694.92	1/2	1,043.25	1/2	1,395.32	1/2	1,753.77	1/2	2,112.83	1/2	2,471.84	1/2	2,828.99	1/2	3,186.81	1/2	3,511.47										
3/4	344.62	3/4	702.41	3/4	1,050.40	3/4	1,402.74	3/4	1,761.25	3/4	2,120.31	3/4	2,479.32	3/4	2,836.45	3/4	3,194.24	3/4	3,515.49										

CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN AT 2" DIAMETER "HERMETIC" VALVE GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 55'-03" FORWARD OF AFT BULKHEAD

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

For



BARGE "EMS 512"

3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	3,519.51	0	3,712.51	0	3,904.81	0	4,093.80	0	4,245.33	0	0	0	0	0	0	0	0	0	0
1/4	3,523.53	1/4	3,716.53	1/4	3,908.71	1/4	4,097.32	1/4	4,248.25	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,527.55	1/2	3,720.55	1/2	3,912.61	1/2	4,090.85	1/2	4,253.16	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,531.58	3/4	3,724.57	3/4	3,916.52	3/4	4,084.37	3/4	4,257.08	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	3,535.60	1	3,728.59	1	3,920.42	1	4,087.89	1	4,260.99	1	1	1	1	1	1	1	1	1	1
1/4	3,539.62	1/4	3,732.61	1/4	3,924.29	1/4	4,101.37	1/4	4,264.96	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,543.64	1/2	3,736.63	1/2	3,928.16	1/2	4,104.85	1/2	4,268.93	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,547.66	3/4	3,740.65	3/4	3,932.03	3/4	4,108.33	3/4	4,272.90	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	3,551.68	2	3,744.67	2	3,935.90	2	4,111.80	2	4,276.86	2	2	2	2	2	2	2	2	2	2
1/4	3,555.70	1/4	3,748.69	1/4	3,939.74	1/4	4,115.25	1/4	4,280.83	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,559.72	1/2	3,752.71	1/2	3,943.59	1/2	4,118.70	1/2	4,284.80	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,563.74	3/4	3,756.73	3/4	3,947.43	3/4	4,122.14	3/4	4,288.77	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	3,567.76	3	3,760.76	3	3,951.27	3	4,125.59	3	4,292.73	3	3	3	3	3	3	3	3	3	3
1/4	3,571.78	1/4	3,764.78	1/4	3,955.08	1/4	4,129.00	1/4	4,296.70	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,575.80	1/2	3,768.80	1/2	3,958.89	1/2	4,132.42	1/2	4,300.67	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,579.82	3/4	3,772.82	3/4	3,962.69	3/4	4,135.83	3/4	4,304.64	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	3,583.84	4	3,776.84	4	3,966.50	4	4,139.25	4	4,308.61	4	4	4	4	4	4	4	4	4	4
1/4	3,587.87	1/4	3,780.86	1/4	3,970.28	1/4	4,142.63	1/4	4,312.57	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,591.89	1/2	3,784.88	1/2	3,974.05	1/2	4,146.02	1/2	4,316.54	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,595.91	3/4	3,788.90	3/4	3,977.83	3/4	4,149.40	3/4	4,320.51	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	3,599.93	5	3,792.92	5	3,981.60	5	4,152.78	5	4,324.48	5	5	5	5	5	5	5	5	5	5
1/4	3,603.95	1/4	3,796.94	1/4	3,985.34	1/4	4,156.13	1/4	4,328.31	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,607.97	1/2	3,800.96	1/2	3,989.09	1/2	4,159.48	1/2	4,332.14	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,611.99	3/4	3,804.98	3/4	3,992.83	3/4	4,162.83	3/4	4,335.98	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	3,616.01	6	3,809.00	6	3,996.58	6	4,166.18	6	4,339.81	6	6	6	6	6	6	6	6	6	6
1/4	3,620.03	1/4	3,813.02	1/4	4,000.29	1/4	4,169.49	1/4	4,342.66	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,624.05	1/2	3,817.05	1/2	4,004.01	1/2	4,172.81	1/2	4,345.52	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,628.07	3/4	3,821.07	3/4	4,007.72	3/4	4,176.13	3/4	4,348.38	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	3,632.09	7	3,825.09	7	4,011.43	7	4,179.45	7	4,351.23	7	7	7	7	7	7	7	7	7	7
1/4	3,636.11	1/4	3,829.11	1/4	4,015.12	1/4	4,182.74	1/4	4,352.87	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,640.13	1/2	3,833.13	1/2	4,018.80	1/2	4,186.03	1/2	4,354.51	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,644.16	3/4	3,837.15	3/4	4,022.48	3/4	4,189.32	3/4	4,356.15	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	3,648.18	8	3,841.17	8	4,026.16	8	4,192.60	8	4,357.79	8	8	8	8	8	8	8	8	8	8
1/4	3,652.20	1/4	3,845.19	1/4	4,029.81	1/4	4,195.86	1/4	4,359.43	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,656.22	1/2	3,849.20	1/2	4,033.46	1/2	4,199.12	1/2	4,361.07	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,660.24	3/4	3,853.22	3/4	4,037.10	3/4	4,202.38	3/4	4,362.71	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	3,664.26	9	3,857.23	9	4,040.75	9	4,205.64	9	4,364.35	9	9	9	9	9	9	9	9	9	9
1/4	3,668.28	1/4	3,861.23	1/4	4,044.37	1/4	4,208.86	1/4	4,365.99	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,672.30	1/2	3,865.23	1/2	4,047.98	1/2	4,212.09	1/2	4,367.63	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,676.32	3/4	3,869.23	3/4	4,051.60	3/4	4,215.32	3/4	4,369.27	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	3,680.34	10	3,873.22	10	4,055.22	10	4,218.54	10	4,370.91	10	10	10	10	10	10	10	10	10	10
1/4	3,684.36	1/4	3,877.19	1/4	4,058.81	1/4	4,221.73	1/4	4,372.55	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,688.38	1/2	3,881.15	1/2	4,062.39	1/2	4,224.92	1/2	4,374.19	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,692.40	3/4	3,885.12	3/4	4,065.98	3/4	4,228.12	3/4	4,375.83	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	3,696.42	11	3,889.09	11	4,069.57	11	4,231.31	11	4,377.47	11	11	11	11	11	11	11	11	11	11
1/4	3,700.44	1/4	3,893.02	1/4	4,073.13	1/4	4,234.81	1/4	4,379.11	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,704.47	1/2	3,896.95	1/2	4,076.68	1/2	4,238.32	1/2	4,380.75	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,708.49	3/4	3,900.88	3/4	4,080.24	3/4	4,241.82	3/4	4,382.39	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

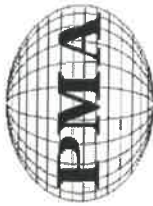
CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/24/2019 CL
CALCULATED: 01/25/2019 CL
PRINTED: 01/25/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2019

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

Joe J. J. J.



BARGE "EMS 512"

ULLAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	- 00-0/8	00-0/8	- 00-1/8	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
1 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
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: 259'-09"

January 25, 2019

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

<http://www.pmacorp.net>



BARGE "EMS 512"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	0	0	0	0	5,089.70	0	4,765.00	0	4,421.13	0	4,061.07	0	3,698.69	0	3,336.32	0	2,973.94
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,092.25	1/4	4,758.05	1/4	4,413.76	1/4	4,053.52	1/4	3,691.14	1/4	3,328.77	1/4	2,966.39
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,084.80	1/2	4,751.09	1/2	4,406.39	1/2	4,046.39	1/2	3,683.59	1/2	3,321.22	1/2	2,958.84
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,077.35	3/4	4,744.13	3/4	4,399.02	3/4	4,038.42	3/4	3,676.04	3/4	3,313.67	3/4	2,951.28
1	1	1	1	1	1	1	5,069.90	1	4,737.14	1	4,391.63	1	4,030.87	1	3,668.49	1	3,306.12	1	2,943.74
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,062.45	1/4	4,730.15	1/4	4,384.23	1/4	4,023.32	1/4	3,660.94	1/4	3,298.57	1/4	2,936.19
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,054.99	1/2	4,723.16	1/2	4,376.83	1/2	4,015.77	1/2	3,653.39	1/2	3,291.02	1/2	2,928.64
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,047.54	3/4	4,716.17	3/4	4,369.43	3/4	4,008.22	3/4	3,645.85	3/4	3,283.47	3/4	2,921.09
2	2	2	2	2	2	2	5,040.14	2	4,709.12	2	4,362.00	2	4,000.67	2	3,638.30	2	3,275.92	2	2,913.54
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,032.75	1/4	4,702.08	1/4	4,354.57	1/4	3,993.12	1/4	3,630.75	1/4	3,268.37	1/4	2,905.99
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,025.35	1/2	4,695.03	1/2	4,347.14	1/2	3,985.57	1/2	3,623.20	1/2	3,260.82	1/2	2,898.44
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,017.95	3/4	4,687.98	3/4	4,339.71	3/4	3,978.02	3/4	3,615.65	3/4	3,253.27	3/4	2,890.90
3	3	3	3	3	3	3	5,010.96	3	4,680.89	3	4,332.25	3	3,970.47	3	3,608.10	3	3,245.72	3	2,883.35
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,003.97	1/4	4,673.81	1/4	4,324.79	1/4	3,962.92	1/4	3,600.55	1/4	3,238.17	1/4	2,875.80
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,996.98	1/2	4,666.73	1/2	4,317.33	1/2	3,955.37	1/2	3,593.00	1/2	3,230.62	1/2	2,868.25
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,989.99	3/4	4,659.65	3/4	4,309.87	3/4	3,947.83	3/4	3,585.45	3/4	3,223.07	3/4	2,860.70
4	4	4	4	4	4	4	4,983.29	4	4,652.53	4	4,302.38	4	3,940.28	4	3,577.90	4	3,215.52	4	2,853.15
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,976.58	1/4	4,645.42	1/4	4,294.88	1/4	3,932.73	1/4	3,570.35	1/4	3,207.97	1/4	2,845.60
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,969.88	1/2	4,638.31	1/2	4,287.38	1/2	3,925.18	1/2	3,562.80	1/2	3,200.42	1/2	2,838.05
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,963.18	3/4	4,631.19	3/4	4,279.90	3/4	3,917.63	3/4	3,555.25	3/4	3,192.88	3/4	2,830.50
5	5	5	5	5	5	5	4,956.44	5	4,624.05	5	4,272.37	5	3,910.08	5	3,547.70	5	3,185.33	5	2,822.95
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,949.71	1/4	4,616.91	1/4	4,264.84	1/4	3,902.53	1/4	3,540.15	1/4	3,177.78	1/4	2,815.40
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,942.97	1/2	4,609.76	1/2	4,257.32	1/2	3,894.98	1/2	3,532.60	1/2	3,170.23	1/2	2,807.85
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,936.23	3/4	4,602.62	3/4	4,249.79	3/4	3,887.43	3/4	3,525.05	3/4	3,162.68	3/4	2,800.30
6	6	6	6	6	6	6	4,929.47	6	4,595.45	6	4,242.25	6	3,879.88	6	3,517.50	6	3,155.13	6	2,792.75
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,922.70	1/4	4,588.27	1/4	4,234.70	1/4	3,872.33	1/4	3,509.95	1/4	3,147.58	1/4	2,785.20
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,915.93	1/2	4,581.10	1/2	4,227.15	1/2	3,864.78	1/2	3,502.40	1/2	3,140.03	1/2	2,777.65
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,909.16	3/4	4,573.93	3/4	4,219.61	3/4	3,857.23	3/4	3,494.86	3/4	3,132.48	3/4	2,770.10
7	7	7	7	7	7	7	4,902.37	7	4,566.72	7	4,212.06	7	3,849.68	7	3,487.31	7	3,124.93	7	2,762.55
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,895.57	1/4	4,559.51	1/4	4,204.51	1/4	3,842.13	1/4	3,479.76	1/4	3,117.38	1/4	2,755.00
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,888.77	1/2	4,552.30	1/2	4,196.96	1/2	3,834.58	1/2	3,472.21	1/2	3,109.83	1/2	2,747.45
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,881.97	3/4	4,545.10	3/4	4,189.41	3/4	3,827.03	3/4	3,464.66	3/4	3,102.28	3/4	2,739.91
8	8	8	8	8	8	8	4,875.15	8	4,537.86	8	4,181.86	8	3,819.48	8	3,457.11	8	3,094.73	8	2,732.36
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,868.32	1/4	4,530.61	1/4	4,174.31	1/4	3,811.93	1/4	3,449.56	1/4	3,087.18	1/4	2,724.81
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,861.49	1/2	4,523.37	1/2	4,166.76	1/2	3,804.38	1/2	3,442.01	1/2	3,079.63	1/2	2,717.26
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,854.66	3/4	4,516.13	3/4	4,159.21	3/4	3,796.84	3/4	3,434.46	3/4	3,072.08	3/4	2,709.71
9	9	9	9	9	9	9	4,847.80	9	4,508.86	9	4,151.66	9	3,789.29	9	3,426.91	9	3,064.53	9	2,702.16
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,840.95	1/4	4,501.59	1/4	4,144.11	1/4	3,781.74	1/4	3,419.36	1/4	3,056.98	1/4	2,694.61
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,834.09	1/2	4,494.32	1/2	4,136.56	1/2	3,774.19	1/2	3,411.81	1/2	3,049.43	1/2	2,687.06
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,827.23	3/4	4,487.05	3/4	4,129.01	3/4	3,766.64	3/4	3,404.26	3/4	3,041.89	3/4	2,679.51
10	10	10	10	10	10	10	4,820.34	10	4,479.75	10	4,121.46	10	3,759.09	10	3,396.71	10	3,034.34	10	2,671.96
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,813.44	1/4	4,472.45	1/4	4,113.91	1/4	3,751.54	1/4	3,389.16	1/4	3,026.79	1/4	2,664.41
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,806.55	1/2	4,465.14	1/2	4,106.36	1/2	3,743.99	1/2	3,381.61	1/2	3,019.24	1/2	2,656.86
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,799.66	3/4	4,457.84	3/4	4,098.82	3/4	3,736.44	3/4	3,374.06	3/4	3,011.69	3/4	2,649.31
11	11	11	11	11	11	11	4,792.73	11	4,450.51	11	4,091.27	11	3,728.89	11	3,366.51	11	3,004.14	11	2,641.76
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,785.81	1/4	4,443.17	1/4	4,083.72	1/4	3,721.34	1/4	3,358.96	1/4	2,996.59	1/4	2,634.21
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,778.88	1/2	4,435.84	1/2	4,076.17	1/2	3,713.79	1/2	3,351.41	1/2	2,989.04	1/2	2,626.66
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,771.96	3/4	4,428.50	3/4	4,068.62	3/4	3,706.24	3/4	3,343.87	3/4	2,981.49	3/4	2,619.11

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE

GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.
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Pearland, Texas 77588

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Paul J. Mac



BARGE "EMS 512"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		GAUGE HEIGHT 17'-02 3/4"	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
0	2,611.56	0	2,249.05	0	1,886.54	0	1,524.03	0	1,161.63	0	799.50	0	437.02	0	80.53	0	0	0	19 FT.
1/4	2,604.01	1/4	2,241.50	1/4	1,878.99	1/4	1,516.47	1/4	1,154.09	1/4	791.95	1/4	429.49	1/4	73.78	1/4	1/4	1/4	
1/2	2,596.45	1/2	2,233.94	1/2	1,871.43	1/2	1,508.92	1/2	1,146.55	1/2	784.40	1/2	421.96	1/2	67.03	1/2	1/2	1/2	
3/4	2,588.90	3/4	2,226.39	3/4	1,863.88	3/4	1,501.37	3/4	1,139.01	3/4	776.85	3/4	414.42	3/4	60.28	3/4	3/4	3/4	
1	2,581.35	1	2,218.84	1	1,856.33	1	1,493.82	1	1,131.47	1	769.29	1	407.02	1	54.79	1	1	1	
1/4	2,573.80	1/4	2,211.29	1/4	1,848.78	1/4	1,486.27	1/4	1,123.93	1/4	761.74	1/4	399.61	1/4	49.30	1/4	1/4	1/4	
1/2	2,566.24	1/2	2,203.73	1/2	1,841.22	1/2	1,478.71	1/2	1,116.39	1/2	754.19	1/2	392.21	1/2	43.81	1/2	1/2	1/2	
3/4	2,558.69	3/4	2,196.18	3/4	1,833.67	3/4	1,471.16	3/4	1,108.85	3/4	746.64	3/4	384.81	3/4	38.32	3/4	3/4	3/4	
2	2,551.14	2	2,188.63	2	1,826.12	2	1,463.61	2	1,101.31	2	739.09	2	377.40	2	34.08	2	2	2	
1/4	2,543.59	1/4	2,181.08	1/4	1,818.57	1/4	1,456.06	1/4	1,093.77	1/4	731.53	1/4	370.00	1/4	29.85	1/4	1/4	1/4	
1/2	2,536.04	1/2	2,173.52	1/2	1,811.01	1/2	1,448.50	1/2	1,086.23	1/2	723.98	1/2	362.59	1/2	25.61	1/2	1/2	1/2	
3/4	2,528.48	3/4	2,165.97	3/4	1,803.46	3/4	1,440.95	3/4	1,078.69	3/4	716.43	3/4	355.19	3/4	21.38	3/4	3/4	3/4	
3	2,520.93	3	2,158.42	3	1,795.91	3	1,433.40	3	1,071.15	3	708.88	3	347.78	3	17.14	3	3	3	
1/4	2,513.38	1/4	2,150.87	1/4	1,788.36	1/4	1,425.85	1/4	1,063.61	1/4	701.33	1/4	340.38	1/4	12.89	1/4	1/4	1/4	
1/2	2,505.83	1/2	2,143.32	1/2	1,780.81	1/2	1,418.29	1/2	1,056.07	1/2	693.77	1/2	332.97	1/2	8.64	1/2	1/2	1/2	
3/4	2,498.27	3/4	2,135.76	3/4	1,773.25	3/4	1,410.74	3/4	1,048.53	3/4	686.22	3/4	325.57	3/4	4.39	3/4	3/4	3/4	
4	2,490.72	4	2,128.21	4	1,765.70	4	1,403.19	4	1,040.99	4	678.67	4	318.16	4	0.14	4	4	4	
1/4	2,483.17	1/4	2,120.66	1/4	1,758.15	1/4	1,395.64	1/4	1,033.45	1/4	671.12	1/4	310.76	1/4	0.14	1/4	1/4	1/4	
1/2	2,475.62	1/2	2,113.11	1/2	1,750.60	1/2	1,388.09	1/2	1,025.91	1/2	663.57	1/2	303.36	1/2	0.14	1/2	1/2	1/2	
3/4	2,468.06	3/4	2,105.55	3/4	1,743.04	3/4	1,380.53	3/4	1,018.37	3/4	656.01	3/4	295.95	3/4	0.14	3/4	3/4	3/4	
5	2,460.51	5	2,098.00	5	1,735.49	5	1,372.98	5	1,010.83	5	648.46	5	288.55	5	0.14	5	5	5	
1/4	2,452.96	1/4	2,090.45	1/4	1,727.94	1/4	1,365.43	1/4	1,003.29	1/4	640.91	1/4	281.14	1/4	0.14	1/4	1/4	1/4	
1/2	2,445.41	1/2	2,082.90	1/2	1,720.39	1/2	1,357.88	1/2	998.21	1/2	633.36	1/2	273.74	1/2	0.14	1/2	1/2	1/2	
3/4	2,437.86	3/4	2,075.35	3/4	1,712.83	3/4	1,350.32	3/4	990.67	3/4	625.81	3/4	266.33	3/4	0.14	3/4	3/4	3/4	
6	2,430.30	6	2,067.79	6	1,705.28	6	1,342.77	6	983.13	6	618.25	6	258.93	6	0.14	6	6	6	
1/4	2,422.75	1/4	2,060.24	1/4	1,697.73	1/4	1,335.22	1/4	975.59	1/4	610.70	1/4	251.52	1/4	0.14	1/4	1/4	1/4	
1/2	2,415.20	1/2	2,052.69	1/2	1,690.18	1/2	1,327.67	1/2	968.05	1/2	603.15	1/2	244.12	1/2	0.14	1/2	1/2	1/2	
3/4	2,407.65	3/4	2,045.14	3/4	1,682.63	3/4	1,320.12	3/4	960.51	3/4	595.60	3/4	236.72	3/4	0.14	3/4	3/4	3/4	
7	2,400.09	7	2,037.58	7	1,675.07	7	1,312.56	7	952.97	7	588.05	7	229.31	7	0.14	7	7	7	
1/4	2,392.54	1/4	2,030.03	1/4	1,667.52	1/4	1,305.01	1/4	945.43	1/4	580.49	1/4	221.91	1/4	0.14	1/4	1/4	1/4	
1/2	2,384.99	1/2	2,022.48	1/2	1,659.97	1/2	1,297.46	1/2	937.89	1/2	572.94	1/2	214.50	1/2	0.14	1/2	1/2	1/2	
3/4	2,377.44	3/4	2,014.93	3/4	1,652.42	3/4	1,289.91	3/4	930.35	3/4	565.39	3/4	207.10	3/4	0.14	3/4	3/4	3/4	
8	2,369.88	8	2,007.37	8	1,644.86	8	1,282.35	8	922.81	8	557.84	8	199.68	8	0.14	8	8	8	
1/4	2,362.33	1/4	1,999.82	1/4	1,637.31	1/4	1,274.80	1/4	915.27	1/4	550.29	1/4	192.26	1/4	0.14	1/4	1/4	1/4	
1/2	2,354.78	1/2	1,992.27	1/2	1,629.76	1/2	1,267.25	1/2	907.73	1/2	542.73	1/2	184.83	1/2	0.14	1/2	1/2	1/2	
3/4	2,347.23	3/4	1,984.72	3/4	1,622.21	3/4	1,259.70	3/4	899.19	3/4	535.18	3/4	177.41	3/4	0.14	3/4	3/4	3/4	
9	2,339.68	9	1,977.17	9	1,614.65	9	1,252.15	9	891.65	9	527.63	9	169.88	9	0.14	9	9	9	
1/4	2,332.12	1/4	1,969.61	1/4	1,607.10	1/4	1,244.59	1/4	884.11	1/4	520.08	1/4	162.34	1/4	0.14	1/4	1/4	1/4	
1/2	2,324.57	1/2	1,962.06	1/2	1,599.55	1/2	1,237.04	1/2	876.57	1/2	512.53	1/2	154.80	1/2	0.14	1/2	1/2	1/2	
3/4	2,317.02	3/4	1,954.51	3/4	1,592.00	3/4	1,229.49	3/4	869.03	3/4	504.97	3/4	147.26	3/4	0.14	3/4	3/4	3/4	
10	2,309.47	10	1,946.96	10	1,584.45	10	1,221.95	10	861.49	10	497.42	10	139.73	10	0.14	10	10	10	
1/4	2,301.91	1/4	1,939.40	1/4	1,576.89	1/4	1,214.41	1/4	853.95	1/4	489.87	1/4	132.19	1/4	0.14	1/4	1/4	1/4	
1/2	2,294.36	1/2	1,931.85	1/2	1,569.34	1/2	1,206.87	1/2	846.41	1/2	482.32	1/2	124.65	1/2	0.14	1/2	1/2	1/2	
3/4	2,286.81	3/4	1,924.30	3/4	1,561.79	3/4	1,199.33	3/4	838.86	3/4	474.77	3/4	117.12	3/4	0.14	3/4	3/4	3/4	
11	2,279.26	11	1,916.75	11	1,554.24	11	1,191.79	11	831.31	11	467.21	11	109.66	11	0.14	11	11	11	
1/4	2,271.70	1/4	1,909.19	1/4	1,546.68	1/4	1,184.25	1/4	823.76	1/4	459.66	1/4	102.20	1/4	0.14	1/4	1/4	1/4	
1/2	2,264.15	1/2	1,901.64	1/2	1,539.13	1/2	1,176.71	1/2	816.21	1/2	452.11	1/2	94.74	1/2	0.14	1/2	1/2	1/2	
3/4	2,256.60	3/4	1,894.09	3/4	1,531.58	3/4	1,169.17	3/4	808.66	3/4	444.56	3/4	87.28	3/4	0.14	3/4	3/4	3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2019

PRECISION MEASUREMENT
& ANALYSIS, INC.

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

BARGE "EMS 512"

1 STBD
ULLAGE TAE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

[illegible]

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 WITH "HERMETIC" CLOSED GAUGING DEVICE
GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD
HERMETIC GAGE EXTENDS TO EXTERNAL HEIGHT OF TANK

33	2,005.00	34	2,005.00
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CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY

**PRECISION MEASUREMENT
& ANALYSIS, INC.**

P.O. Box 2092
Pearland, Texas 77588
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BARGE "EMS 512"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
0	2,602.11	0	2,239.60	0	1,877.09	0	1,514.58	0	1,152.77	0	791.95	0	429.49	0	73.78	0			
1/4	2,594.56	1/4	2,232.05	1/4	1,869.54	1/4	1,507.03	1/4	1,145.27	1/4	784.40	1/4	421.95	1/4	67.03	1/4	1/4		
1/2	2,587.01	1/2	2,224.50	1/2	1,861.99	1/2	1,499.48	1/2	1,137.77	1/2	776.84	1/2	414.42	1/2	60.28	1/2	1/2	1/4	
3/4	2,579.45	3/4	2,216.94	3/4	1,854.43	3/4	1,491.92	3/4	1,130.27	3/4	769.29	3/4	407.02	3/4	54.79	3/4	3/4	1/2	1/4
1	2,571.90	1	2,209.39	1	1,846.88	1	1,484.37	1	1,122.77	1	761.74	1	399.61	1	49.30	1	1	1	1
1/4	2,564.35	1/4	2,201.84	1/4	1,839.33	1/4	1,476.82	1/4	1,115.27	1/4	754.19	1/4	392.21	1/4	43.81	1/4	1/4	1/4	1/4
1/2	2,556.80	1/2	2,194.29	1/2	1,831.78	1/2	1,469.27	1/2	1,107.77	1/2	746.64	1/2	384.80	1/2	38.32	1/2	1/2	1/2	1/2
3/4	2,549.25	3/4	2,186.74	3/4	1,824.22	3/4	1,461.71	3/4	1,100.27	3/4	739.08	3/4	377.40	3/4	34.08	3/4	3/4	3/4	3/4
2	2,541.69	2	2,179.18	2	1,816.67	2	1,454.16	2	1,092.77	2	731.53	2	369.99	2	29.85	2	2	2	2
1/4	2,534.14	1/4	2,171.63	1/4	1,809.12	1/4	1,446.61	1/4	1,085.27	1/4	723.98	1/4	362.59	1/4	25.61	1/4	1/4	1/4	1/4
1/2	2,526.59	1/2	2,164.08	1/2	1,801.57	1/2	1,439.06	1/2	1,077.76	1/2	716.43	1/2	355.19	1/2	21.38	1/2	1/2	1/2	1/2
3/4	2,519.04	3/4	2,156.53	3/4	1,794.02	3/4	1,431.51	3/4	1,070.26	3/4	708.88	3/4	347.78	3/4	17.11	3/4	3/4	3/4	3/4
3	2,511.48	3	2,148.97	3	1,786.46	3	1,423.95	3	1,062.76	3	701.32	3	340.38	3	12.84	3	3	3	3
1/4	2,503.93	1/4	2,141.42	1/4	1,778.91	1/4	1,416.40	1/4	1,055.26	1/4	693.77	1/4	332.97	1/4	8.57	1/4	1/4	1/4	1/4
1/2	2,496.38	1/2	2,133.87	1/2	1,771.36	1/2	1,408.85	1/2	1,047.76	1/2	686.22	1/2	325.57	1/2	4.28	1/2	1/2	1/2	1/2
3/4	2,488.83	3/4	2,126.32	3/4	1,763.81	3/4	1,401.30	3/4	1,040.26	3/4	678.67	3/4	318.16	3/4	0.00	3/4	3/4	3/4	3/4
4	2,481.27	4	2,118.76	4	1,756.25	4	1,393.74	4	1,032.76	4	671.12	4	310.76	4	0.00	4	4	4	4
1/4	2,473.72	1/4	2,111.21	1/4	1,748.70	1/4	1,386.19	1/4	1,025.26	1/4	663.56	1/4	303.35	1/4	0.00	1/4	1/4	1/4	1/4
1/2	2,466.17	1/2	2,103.66	1/2	1,741.15	1/2	1,378.64	1/2	1,017.76	1/2	656.01	1/2	295.95	1/2	0.00	1/2	1/2	1/2	1/2
3/4	2,458.62	3/4	2,096.11	3/4	1,733.60	3/4	1,371.09	3/4	1,010.26	3/4	648.46	3/4	288.55	3/4	0.00	3/4	3/4	3/4	3/4
5	2,451.07	5	2,088.56	5	1,726.04	5	1,363.53	5	1,002.76	5	640.91	5	281.14	5	0.00	5	5	5	5
1/4	2,443.51	1/4	2,081.00	1/4	1,718.49	1/4	1,355.98	1/4	995.26	1/4	633.36	1/4	273.74	1/4	0.00	1/4	1/4	1/4	1/4
1/2	2,435.96	1/2	2,073.45	1/2	1,710.94	1/2	1,348.43	1/2	987.76	1/2	625.80	1/2	266.33	1/2	0.00	1/2	1/2	1/2	1/2
3/4	2,428.41	3/4	2,065.90	3/4	1,703.39	3/4	1,340.88	3/4	980.26	3/4	618.25	3/4	258.93	3/4	0.00	3/4	3/4	3/4	3/4
6	2,420.86	6	2,058.35	6	1,695.84	6	1,333.33	6	972.76	6	610.70	6	251.52	6	0.00	6	6	6	6
1/4	2,413.30	1/4	2,050.79	1/4	1,688.28	1/4	1,325.77	1/4	965.26	1/4	603.15	1/4	244.12	1/4	0.00	1/4	1/4	1/4	1/4
1/2	2,405.75	1/2	2,043.24	1/2	1,680.73	1/2	1,318.22	1/2	957.75	1/2	595.60	1/2	236.71	1/2	0.00	1/2	1/2	1/2	1/2
3/4	2,398.20	3/4	2,035.69	3/4	1,673.18	3/4	1,310.67	3/4	950.25	3/4	588.04	3/4	229.31	3/4	0.00	3/4	3/4	3/4	3/4
7	2,390.65	7	2,028.14	7	1,665.63	7	1,303.12	7	942.75	7	580.49	7	221.91	7	0.00	7	7	7	7
1/4	2,383.09	1/4	2,020.58	1/4	1,658.07	1/4	1,295.56	1/4	935.25	1/4	572.94	1/4	214.50	1/4	0.00	1/4	1/4	1/4	1/4
1/2	2,375.54	1/2	2,013.03	1/2	1,650.52	1/2	1,288.01	1/2	927.75	1/2	565.39	1/2	207.10	1/2	0.00	1/2	1/2	1/2	1/2
3/4	2,367.99	3/4	2,005.48	3/4	1,642.97	3/4	1,280.46	3/4	920.23	3/4	557.84	3/4	199.68	3/4	0.00	3/4	3/4	3/4	3/4
8	2,360.44	8	1,997.93	8	1,635.42	8	1,272.92	8	912.71	8	550.28	8	192.25	8	0.00	8	8	8	8
1/4	2,352.89	1/4	1,990.38	1/4	1,627.86	1/4	1,265.37	1/4	905.19	1/4	542.73	1/4	184.83	1/4	0.00	1/4	1/4	1/4	1/4
1/2	2,345.33	1/2	1,982.82	1/2	1,620.31	1/2	1,257.82	1/2	897.68	1/2	535.18	1/2	177.41	1/2	0.00	1/2	1/2	1/2	1/2
3/4	2,337.78	3/4	1,975.27	3/4	1,612.76	3/4	1,250.31	3/4	890.12	3/4	527.63	3/4	169.88	3/4	0.00	3/4	3/4	3/4	3/4
9	2,330.23	9	1,967.72	9	1,605.21	9	1,242.80	9	882.57	9	520.08	9	162.34	9	0.00	9	9	9	9
1/4	2,322.68	1/4	1,960.17	1/4	1,597.66	1/4	1,235.29	1/4	875.02	1/4	512.52	1/4	154.80	1/4	0.00	1/4	1/4	1/4	1/4
1/2	2,315.12	1/2	1,952.61	1/2	1,590.10	1/2	1,227.78	1/2	867.47	1/2	504.97	1/2	147.26	1/2	0.00	1/2	1/2	1/2	1/2
3/4	2,307.57	3/4	1,945.06	3/4	1,582.55	3/4	1,220.28	3/4	859.92	3/4	497.42	3/4	139.73	3/4	0.00	3/4	3/4	3/4	3/4
10	2,300.02	10	1,937.51	10	1,575.00	10	1,212.78	10	852.36	10	489.87	10	132.19	10	0.00	10	10	10	10
1/4	2,292.47	1/4	1,929.96	1/4	1,567.45	1/4	1,205.27	1/4	844.81	1/4	482.32	1/4	124.65	1/4	0.00	1/4	1/4	1/4	1/4
1/2	2,284.92	1/2	1,922.40	1/2	1,559.89	1/2	1,197.77	1/2	837.26	1/2	474.76	1/2	117.11	1/2	0.00	1/2	1/2	1/2	1/2
3/4	2,277.36	3/4	1,914.85	3/4	1,552.34	3/4	1,190.27	3/4	829.71	3/4	467.21	3/4	109.66	3/4	0.00	3/4	3/4	3/4	3/4
11	2,269.81	11	1,907.30	11	1,544.79	11	1,182.77	11	822.16	11	459.66	11	102.20	11	0.00	11	11	11	11
1/4	2,262.26	1/4	1,899.75	1/4	1,537.24	1/4	1,175.27	1/4	814.60	1/4	452.11	1/4	94.74	1/4	0.00	1/4	1/4	1/4	1/4
1/2	2,254.71	1/2	1,892.20	1/2	1,529.69	1/2	1,167.77	1/2	807.05	1/2	444.56	1/2	87.28	1/2	0.00	1/2	1/2	1/2	1/2
3/4	2,247.15	3/4	1,884.64	3/4	1,522.13	3/4	1,160.27	3/4	799.50	3/4	437.02	3/4	80.53	3/4	0.00	3/4	3/4	3/4	3/4

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Pearland, Texas 77588
<http://www.pmacorp.net>

Paul J. Parnell

BARGE "EMS 512"

**2 PORT
ULLAGE TAB**

[illegible]

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7

**CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK**

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE
GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-00" FORWARD OF AFT BULKHEAD

CERTIFIED CHART FOR THE ABOVE NAMED TANK ON Y.

**PRECISION MEASUREMENT
& ANALYSIS, INC.**

P.O. Box 2092
Pearland, Texas 77588
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[Signature]



BARGE "EMS 512"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
0	2,604.87	0	2,243.28	0	1,881.70	0	1,520.12	0	1,158.55	0	797.44	0	435.89	0	80.33	0			
1/4	2,597.33	1/4	2,235.75	1/4	1,874.17	1/4	1,512.58	1/4	1,151.13	1/4	789.91	1/4	428.38	1/4	73.59	1/4	1/4		
1/2	2,589.80	1/2	2,228.22	1/2	1,866.63	1/2	1,505.05	1/2	1,143.61	1/2	782.38	1/2	420.86	1/2	66.86	1/2	1/2		
3/4	2,582.27	3/4	2,220.68	3/4	1,858.10	3/4	1,497.52	3/4	1,136.09	3/4	774.85	3/4	413.35	3/4	60.13	3/4	3/4		
1	2,574.74	1	2,213.15	1	1,851.57	1	1,489.98	1	1,128.57	1	767.31	1	405.96	1	54.65	1	1		
1/4	2,567.20	1/4	2,205.62	1/4	1,844.03	1/4	1,482.45	1/4	1,121.05	1/4	759.78	1/4	398.58	1/4	49.17	1/4	1/4		
1/2	2,559.67	1/2	2,198.09	1/2	1,836.50	1/2	1,474.92	1/2	1,113.52	1/2	752.25	1/2	391.19	1/2	43.70	1/2	1/2		
3/4	2,552.14	3/4	2,190.55	3/4	1,828.97	3/4	1,467.38	3/4	1,106.00	3/4	744.71	3/4	383.81	3/4	38.22	3/4	3/4		
2	2,544.60	2	2,183.02	2	1,821.44	2	1,459.85	2	1,098.48	2	737.18	2	376.42	2	34.00	2	2		
1/4	2,537.07	1/4	2,175.49	1/4	1,813.90	1/4	1,452.32	1/4	1,090.96	1/4	729.65	1/4	369.04	1/4	29.77	1/4	1/4		
1/2	2,529.54	1/2	2,167.95	1/2	1,806.37	1/2	1,444.79	1/2	1,083.44	1/2	722.12	1/2	361.65	1/2	25.55	1/2	1/2		
3/4	2,522.00	3/4	2,160.42	3/4	1,798.84	3/4	1,437.25	3/4	1,075.92	3/4	714.58	3/4	354.27	3/4	21.33	3/4	3/4		
3	2,514.47	3	2,152.89	3	1,791.30	3	1,429.72	3	1,068.40	3	707.05	3	346.88	3		3	3		
1/4	2,506.94	1/4	2,145.35	1/4	1,783.77	1/4	1,422.19	1/4	1,060.88	1/4	699.52	1/4	339.50	1/4		1/4	1/4		
1/2	2,499.41	1/2	2,137.82	1/2	1,776.24	1/2	1,414.65	1/2	1,053.36	1/2	691.99	1/2	332.11	1/2		1/2	1/2		
3/4	2,491.87	3/4	2,130.29	3/4	1,768.70	3/4	1,407.12	3/4	1,045.84	3/4	684.45	3/4	324.73	3/4		3/4	3/4		
4	2,484.34	4	2,122.76	4	1,761.17	4	1,399.59	4	1,038.32	4	676.92	4	317.34	4		4	4		
1/4	2,476.81	1/4	2,115.22	1/4	1,753.64	1/4	1,392.05	1/4	1,030.80	1/4	669.39	1/4	309.96	1/4		1/4	1/4		
1/2	2,469.27	1/2	2,107.69	1/2	1,746.11	1/2	1,384.52	1/2	1,023.28	1/2	661.85	1/2	302.57	1/2		1/2	1/2		
3/4	2,461.74	3/4	2,100.16	3/4	1,738.57	3/4	1,376.99	3/4	1,015.75	3/4	654.32	3/4	295.19	3/4		3/4	3/4		
5	2,454.21	5	2,092.62	5	1,731.04	5	1,369.46	5	1,008.23	5	646.79	5	287.80	5		5	5		
1/4	2,446.67	1/4	2,085.09	1/4	1,723.51	1/4	1,361.92	1/4	1,000.71	1/4	639.26	1/4	280.42	1/4		1/4	1/4		
1/2	2,439.14	1/2	2,077.56	1/2	1,715.97	1/2	1,354.39	1/2	993.19	1/2	631.72	1/2	273.03	1/2		1/2	1/2		
3/4	2,431.61	3/4	2,070.02	3/4	1,708.44	3/4	1,346.86	3/4	985.67	3/4	624.19	3/4	265.65	3/4		3/4	3/4		
6	2,424.08	6	2,062.49	6	1,700.91	6	1,339.32	6	978.15	6	616.66	6	258.26	6		6	6		
1/4	2,416.54	1/4	2,054.96	1/4	1,693.37	1/4	1,331.79	1/4	970.63	1/4	609.13	1/4	250.88	1/4		1/4	1/4		
1/2	2,409.01	1/2	2,047.43	1/2	1,685.84	1/2	1,324.26	1/2	963.11	1/2	601.59	1/2	243.49	1/2		1/2	1/2		
3/4	2,401.48	3/4	2,039.89	3/4	1,678.31	3/4	1,316.72	3/4	955.59	3/4	594.06	3/4	236.11	3/4		3/4	3/4		
7	2,393.94	7	2,032.36	7	1,670.78	7	1,309.19	7	948.07	7	586.53	7	228.72	7		7	7		
1/4	2,386.41	1/4	2,024.83	1/4	1,663.24	1/4	1,301.66	1/4	940.54	1/4	579.00	1/4	221.34	1/4		1/4	1/4		
1/2	2,378.88	1/2	2,017.29	1/2	1,655.71	1/2	1,294.13	1/2	933.02	1/2	571.46	1/2	213.95	1/2		1/2	1/2		
3/4	2,371.34	3/4	2,009.76	3/4	1,648.18	3/4	1,286.59	3/4	925.50	3/4	563.93	3/4	206.57	3/4		3/4	3/4		
8	2,363.81	8	2,002.23	8	1,640.64	8	1,279.06	8	917.97	8	556.40	8	199.16	8		8	8		
1/4	2,356.28	1/4	1,994.69	1/4	1,633.11	1/4	1,271.53	1/4	910.43	1/4	548.86	1/4	191.76	1/4		1/4	1/4		
1/2	2,348.75	1/2	1,987.16	1/2	1,625.58	1/2	1,263.99	1/2	902.90	1/2	541.33	1/2	184.36	1/2		1/2	1/2		
3/4	2,341.21	3/4	1,979.63	3/4	1,618.04	3/4	1,256.46	3/4	895.37	3/4	533.80	3/4	176.96	3/4		3/4	3/4		
9	2,333.68	9	1,972.10	9	1,610.51	9	1,248.93	9	887.84	9	526.27	9	169.44	9		9	9		
1/4	2,326.15	1/4	1,964.56	1/4	1,602.98	1/4	1,241.40	1/4	880.30	1/4	518.73	1/4	161.92	1/4		1/4	1/4		
1/2	2,318.61	1/2	1,957.03	1/2	1,595.45	1/2	1,233.87	1/2	872.77	1/2	511.20	1/2	154.41	1/2		1/2	1/2		
3/4	2,311.08	3/4	1,949.50	3/4	1,587.91	3/4	1,226.34	3/4	865.24	3/4	503.67	3/4	146.89	3/4		3/4	3/4		
10	2,303.55	10	1,941.96	10	1,580.38	10	1,218.82	10	857.70	10	496.14	10	139.37	10		10	10		
1/4	2,296.01	1/4	1,934.43	1/4	1,572.85	1/4	1,211.30	1/4	850.17	1/4	488.60	1/4	131.85	1/4		1/4	1/4		
1/2	2,288.48	1/2	1,926.90	1/2	1,565.31	1/2	1,203.77	1/2	842.64	1/2	481.07	1/2	124.33	1/2		1/2	1/2		
3/4	2,280.95	3/4	1,919.36	3/4	1,557.78	3/4	1,196.25	3/4	835.11	3/4	473.54	3/4	116.82	3/4		3/4	3/4		
11	2,273.42	11	1,911.83	11	1,550.25	11	1,188.73	11	827.57	11	466.00	11	109.38	11		11	11		
1/4	2,265.88	1/4	1,904.30	1/4	1,542.71	1/4	1,181.21	1/4	820.04	1/4	458.47	1/4	101.94	1/4		1/4	1/4		
1/2	2,258.35	1/2	1,896.77	1/2	1,535.18	1/2	1,173.69	1/2	812.51	1/2	450.94	1/2	94.50	1/2		1/2	1/2		
3/4	2,250.82	3/4	1,889.23	3/4	1,527.65	3/4	1,166.17	3/4	804.98	3/4	443.41	3/4	87.06	3/4		3/4	3/4		

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/24/2019 CL
CALCULATED: 01/25/2019 CL
PRINTED: 01/25/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2019

PRECISION MEASUREMENT
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Joe J. J. J.



BARGE "EMS 512"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	0	0	0	0	5,058.88	0	4,725.72	0	4,381.58	0	4,021.75	0	3,659.97	0	3,298.18	0	2,936.40
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,051.44	1/4	4,718.77	1/4	4,374.23	1/4	4,014.22	1/4	3,652.43	1/4	3,290.64	1/4	2,928.86
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,044.00	1/2	4,711.80	1/2	4,366.84	1/2	4,006.68	1/2	3,644.89	1/2	3,283.11	1/2	2,921.32
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,036.56	3/4	4,704.82	3/4	4,359.45	3/4	3,999.14	3/4	3,637.36	3/4	3,275.57	3/4	2,913.78
1	1	1	1	1	1	1	5,029.13	1	4,697.84	1	4,352.07	1	3,991.60	1	3,629.82	1	3,268.03	1	2,906.25
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,021.69	1/4	4,690.86	1/4	4,344.68	1/4	3,984.07	1/4	3,622.28	1/4	3,260.50	1/4	2,898.71
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,014.30	1/2	4,683.82	1/2	4,337.26	1/2	3,976.53	1/2	3,614.74	1/2	3,252.96	1/2	2,891.17
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,006.91	3/4	4,676.78	3/4	4,329.84	3/4	3,968.99	3/4	3,607.21	3/4	3,245.42	3/4	2,883.64
2	2	2	2	2	2	2	4,999.53	2	4,669.75	2	4,322.43	2	3,961.46	2	3,599.67	2	3,237.88	2	2,876.10
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,992.14	1/4	4,662.71	1/4	4,315.01	1/4	3,953.92	1/4	3,592.13	1/4	3,230.35	1/4	2,868.56
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,985.16	1/2	4,655.64	1/2	4,307.56	1/2	3,946.38	1/2	3,584.60	1/2	3,222.81	1/2	2,861.02
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,978.18	3/4	4,648.57	3/4	4,300.11	3/4	3,938.84	3/4	3,577.06	3/4	3,215.27	3/4	2,853.49
3	3	3	3	3	3	3	4,971.21	3	4,641.49	3	4,292.67	3	3,931.31	3	3,569.52	3	3,207.74	3	2,845.95
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,964.23	1/4	4,634.42	1/4	4,285.22	1/4	3,923.77	1/4	3,561.98	1/4	3,200.20	1/4	2,838.41
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,957.54	1/2	4,627.32	1/2	4,277.74	1/2	3,916.23	1/2	3,554.45	1/2	3,192.66	1/2	2,830.88
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,950.84	3/4	4,620.22	3/4	4,270.26	3/4	3,908.70	3/4	3,546.91	3/4	3,185.12	3/4	2,823.34
4	4	4	4	4	4	4	4,944.15	4	4,613.12	4	4,262.77	4	3,901.16	4	3,539.37	4	3,177.59	4	2,815.80
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,937.46	1/4	4,606.02	1/4	4,255.29	1/4	3,893.62	1/4	3,531.84	1/4	3,170.05	1/4	2,808.26
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,930.74	1/2	4,598.89	1/2	4,247.78	1/2	3,886.08	1/2	3,524.30	1/2	3,162.51	1/2	2,800.73
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,924.01	3/4	4,591.76	3/4	4,240.27	3/4	3,878.55	3/4	3,516.76	3/4	3,154.98	3/4	2,793.19
5	5	5	5	5	5	5	4,917.29	5	4,584.62	5	4,232.75	5	3,871.01	5	3,509.22	5	3,147.44	5	2,785.65
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,910.56	1/4	4,577.49	1/4	4,225.24	1/4	3,863.47	1/4	3,501.69	1/4	3,139.90	1/4	2,778.12
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,903.80	1/2	4,570.33	1/2	4,217.71	1/2	3,855.93	1/2	3,494.15	1/2	3,132.36	1/2	2,770.59
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,897.05	3/4	4,563.17	3/4	4,210.17	3/4	3,848.40	3/4	3,486.61	3/4	3,124.83	3/4	2,763.07
6	6	6	6	6	6	6	4,890.29	6	4,556.01	6	4,202.84	6	3,840.86	6	3,479.07	6	3,117.29	6	2,755.54
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,883.53	1/4	4,548.84	1/4	4,195.11	1/4	3,833.32	1/4	3,471.54	1/4	3,109.75	1/4	2,748.02
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,876.75	1/2	4,541.65	1/2	4,187.87	1/2	3,825.79	1/2	3,464.00	1/2	3,102.21	1/2	2,740.59
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,869.96	3/4	4,534.45	3/4	4,180.03	3/4	3,818.25	3/4	3,456.46	3/4	3,094.68	3/4	2,733.16
7	7	7	7	7	7	7	4,863.17	7	4,527.26	7	4,172.50	7	3,810.71	7	3,448.93	7	3,087.14	7	2,725.73
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,856.39	1/4	4,520.06	1/4	4,164.96	1/4	3,803.33	1/4	3,441.39	1/4	3,079.60	1/4	2,718.30
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,849.57	1/2	4,512.83	1/2	4,157.42	1/2	3,795.64	1/2	3,433.85	1/2	3,072.07	1/2	2,710.87
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,842.76	3/4	4,505.60	3/4	4,149.89	3/4	3,788.10	3/4	3,426.31	3/4	3,064.53	3/4	2,703.43
8	8	8	8	8	8	8	4,835.94	8	4,498.37	8	4,142.35	8	3,780.56	8	3,418.78	8	3,056.99	8	2,696.00
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,828.12	1/4	4,491.14	1/4	4,134.81	1/4	3,773.03	1/4	3,411.24	1/4	3,049.45	1/4	2,688.57
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,822.28	1/2	4,483.88	1/2	4,127.27	1/2	3,765.49	1/2	3,403.70	1/2	3,041.92	1/2	2,681.14
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,815.43	3/4	4,476.63	3/4	4,119.74	3/4	3,757.95	3/4	3,396.17	3/4	3,034.38	3/4	2,673.71
9	9	9	9	9	9	9	4,808.58	9	4,469.37	9	4,112.20	9	3,750.41	9	3,388.63	9	3,026.84	9	2,666.28
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,801.73	1/4	4,462.11	1/4	4,104.66	1/4	3,742.88	1/4	3,381.09	1/4	3,019.31	1/4	2,658.85
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,794.85	1/2	4,454.82	1/2	4,097.13	1/2	3,735.34	1/2	3,373.55	1/2	3,011.77	1/2	2,651.41
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,787.97	3/4	4,447.53	3/4	4,089.59	3/4	3,727.80	3/4	3,366.02	3/4	3,004.23	3/4	2,643.96
10	10	10	10	10	10	10	4,781.09	10	4,440.24	10	4,082.05	10	3,720.27	10	3,358.48	10	2,996.69	10	2,636.52
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,774.21	1/4	4,432.95	1/4	4,074.51	1/4	3,712.73	1/4	3,350.94	1/4	2,989.16	1/4	2,629.07
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,767.29	1/2	4,425.63	1/2	4,066.98	1/2	3,705.19	1/2	3,343.41	1/2	2,981.62	1/2	2,621.54
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,760.38	3/4	4,418.30	3/4	4,059.44	3/4	3,697.65	3/4	3,335.87	3/4	2,974.08	3/4	2,614.00
11	11	11	11	11	11	11	4,753.47	11	4,410.98	11	4,051.90	11	3,690.12	11	3,328.33	11	2,966.55	11	2,606.46
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,746.55	1/4	4,403.65	1/4	4,044.36	1/4	3,682.58	1/4	3,320.79	1/4	2,959.01	1/4	2,598.93
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,739.61	1/2	4,396.30	1/2	4,036.83	1/2	3,675.04	1/2	3,313.26	1/2	2,951.47	1/2	2,591.39
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,732.66	3/4	4,388.94	3/4	4,029.29	3/4	3,667.50	3/4	3,305.72	3/4	2,943.93	3/4	2,583.85

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE

GAUGE POINT: (HERMETIC) LOCATED 10'-06" 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.pmacorp.net>

Paul J. Lane



BARGE "EMS 512"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
0	2,576.31	0	2,214.39	0	1,852.47	0	1,490.55	0	1,133.90	0	783.11	0	421.25	0	66.92	0			
1/4	2,568.77	1/4	2,206.85	1/4	1,844.93	1/4	1,483.01	1/4	1,126.71	1/4	775.57	1/4	413.73	1/4	60.18	1/4	1/4		
1/2	2,561.23	1/2	2,199.31	1/2	1,837.39	1/2	1,475.47	1/2	1,119.51	1/2	768.03	1/2	406.34	1/2	54.70	1/2	1/2		
3/4	2,553.69	3/4	2,191.77	3/4	1,829.85	3/4	1,467.93	3/4	1,112.31	3/4	760.49	3/4	398.95	3/4	49.22	3/4	3/4		
1	2,546.15	1	2,184.23	1	1,822.31	1	1,460.39	1	1,105.12	1	752.95	1	391.56	1	43.74	1	1		
1/4	2,538.61	1/4	2,176.69	1/4	1,814.77	1/4	1,452.85	1/4	1,097.92	1/4	745.41	1/4	384.17	1/4	38.25	1/4	1/4		
1/2	2,531.07	1/2	2,169.15	1/2	1,807.23	1/2	1,445.31	1/2	1,090.72	1/2	737.87	1/2	376.77	1/2	34.03	1/2	1/2		
3/4	2,523.53	3/4	2,161.61	3/4	1,799.69	3/4	1,437.77	3/4	1,083.53	3/4	730.33	3/4	369.38	3/4	29.80	3/4	3/4		
2	2,515.99	2	2,154.07	2	1,792.15	2	1,430.23	2	1,076.33	2	722.79	2	361.99	2	25.57	2	2		
1/4	2,508.45	1/4	2,146.53	1/4	1,784.61	1/4	1,422.69	1/4	1,069.13	1/4	715.25	1/4	354.60	1/4	21.35	1/4	1/4		
1/2	2,500.91	1/2	2,138.99	1/2	1,777.07	1/2	1,415.15	1/2	1,061.94	1/2	707.71	1/2	347.21	1/2		1/2	1/2		
3/4	2,493.37	3/4	2,131.45	3/4	1,769.53	3/4	1,407.61	3/4	1,054.74	3/4	700.17	3/4	339.81	3/4		3/4	3/4		
3	2,485.83	3	2,123.91	3	1,761.99	3	1,400.07	3	1,047.55	3	692.63	3	332.42	3		3	3		
1/4	2,478.29	1/4	2,116.37	1/4	1,754.45	1/4	1,392.53	1/4	1,040.35	1/4	685.09	1/4	325.03	1/4		1/4	1/4		
1/2	2,470.75	1/2	2,108.83	1/2	1,746.91	1/2	1,384.99	1/2	1,033.15	1/2	677.55	1/2	317.64	1/2		1/2	1/2		
3/4	2,463.21	3/4	2,101.29	3/4	1,739.37	3/4	1,377.45	3/4	1,025.96	3/4	670.01	3/4	310.25	3/4		3/4	3/4		
4	2,455.67	4	2,093.75	4	1,731.83	4	1,369.91	4	1,018.76	4	662.47	4	302.85	4		4	4		
1/4	2,448.13	1/4	2,086.21	1/4	1,724.29	1/4	1,362.37	1/4	1,011.56	1/4	654.93	1/4	295.46	1/4		1/4	1/4		
1/2	2,440.59	1/2	2,078.67	1/2	1,716.75	1/2	1,354.83	1/2	1,004.37	1/2	647.39	1/2	288.07	1/2		1/2	1/2		
3/4	2,433.05	3/4	2,071.13	3/4	1,709.21	3/4	1,347.29	3/4	997.17	3/4	639.85	3/4	280.88	3/4		3/4	3/4		
5	2,425.51	5	2,063.59	5	1,701.67	5	1,339.75	5	989.97	5	632.31	5	273.29	5		5	5		
1/4	2,417.97	1/4	2,056.05	1/4	1,694.13	1/4	1,332.21	1/4	982.78	1/4	624.77	1/4	265.89	1/4		1/4	1/4		
1/2	2,410.43	1/2	2,048.51	1/2	1,686.59	1/2	1,324.67	1/2	975.58	1/2	617.23	1/2	258.50	1/2		1/2	1/2		
3/4	2,402.89	3/4	2,040.97	3/4	1,679.05	3/4	1,317.13	3/4	968.38	3/4	609.69	3/4	251.11	3/4		3/4	3/4		
6	2,395.35	6	2,033.43	6	1,671.51	6	1,309.59	6	961.19	6	602.15	6	243.72	6		6	6		
1/4	2,387.81	1/4	2,025.89	1/4	1,663.97	1/4	1,302.05	1/4	953.99	1/4	594.61	1/4	236.33	1/4		1/4	1/4		
1/2	2,380.27	1/2	2,018.35	1/2	1,656.43	1/2	1,294.51	1/2	946.79	1/2	587.07	1/2	228.93	1/2		1/2	1/2		
3/4	2,372.73	3/4	2,010.81	3/4	1,648.89	3/4	1,286.97	3/4	939.59	3/4	579.53	3/4	221.54	3/4		3/4	3/4		
7	2,365.19	7	2,003.27	7	1,641.35	7	1,279.43	7	932.40	7	571.99	7	214.15	7		7	7		
1/4	2,357.65	1/4	1,995.73	1/4	1,633.81	1/4	1,271.89	1/4	925.20	1/4	564.45	1/4	206.76	1/4		1/4	1/4		
1/2	2,350.11	1/2	1,988.19	1/2	1,626.27	1/2	1,264.39	1/2	917.95	1/2	556.91	1/2	199.35	1/2		1/2	1/2		
3/4	2,342.57	3/4	1,980.65	3/4	1,618.73	3/4	1,256.89	3/4	910.70	3/4	549.37	3/4	191.94	3/4		3/4	3/4		
8	2,335.03	8	1,973.11	8	1,611.19	8	1,249.39	8	903.45	8	541.83	8	184.53	8		8	8		
1/4	2,327.49	1/4	1,965.57	1/4	1,603.65	1/4	1,241.89	1/4	896.20	1/4	534.30	1/4	177.12	1/4		1/4	1/4		
1/2	2,319.95	1/2	1,958.03	1/2	1,596.11	1/2	1,234.69	1/2	888.66	1/2	526.76	1/2	169.60	1/2		1/2	1/2		
3/4	2,312.41	3/4	1,950.49	3/4	1,588.57	3/4	1,227.48	3/4	881.12	3/4	519.22	3/4	162.07	3/4		3/4	3/4		
9	2,304.87	9	1,942.95	9	1,581.03	9	1,220.27	9	873.58	9	511.68	9	154.55	9		9	9		
1/4	2,297.33	1/4	1,935.41	1/4	1,573.49	1/4	1,213.06	1/4	866.04	1/4	504.14	1/4	147.02	1/4		1/4	1/4		
1/2	2,289.79	1/2	1,927.87	1/2	1,565.95	1/2	1,205.87	1/2	858.50	1/2	496.60	1/2	139.50	1/2		1/2	1/2		
3/4	2,282.25	3/4	1,920.33	3/4	1,558.41	3/4	1,198.67	3/4	850.96	3/4	489.06	3/4	131.97	3/4		3/4	3/4		
10	2,274.71	10	1,912.79	10	1,550.87	10	1,191.48	10	843.42	10	481.52	10	124.45	10		10	10		
1/4	2,267.17	1/4	1,905.25	1/4	1,543.33	1/4	1,184.28	1/4	835.86	1/4	473.98	1/4	116.92	1/4		1/4	1/4		
1/2	2,259.63	1/2	1,897.71	1/2	1,535.79	1/2	1,177.08	1/2	828.34	1/2	466.44	1/2	109.48	1/2		1/2	1/2		
3/4	2,252.09	3/4	1,890.17	3/4	1,528.25	3/4	1,169.89	3/4	820.80	3/4	458.90	3/4	102.03	3/4		3/4	3/4		
11	2,244.55	11	1,882.63	11	1,520.71	11	1,162.69	11	813.26	11	451.36	11	94.59	11		11	11		
1/4	2,237.01	1/4	1,875.09	1/4	1,513.17	1/4	1,155.49	1/4	805.72	1/4	443.82	1/4	87.14	1/4		1/4	1/4		
1/2	2,229.47	1/2	1,867.55	1/2	1,505.63	1/2	1,148.30	1/2	798.18	1/2	436.30	1/2	80.40	1/2		1/2	1/2		
3/4	2,221.93	3/4	1,860.01	3/4	1,498.09	3/4	1,141.10	3/4	790.64	3/4	428.78	3/4	73.66	3/4		3/4	3/4		

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/24/2019 CL
CALCULATED: 01/25/2019 CL
PRINTED: 01/25/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2019

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

Paul J. Parnell



BARGE "EMS 512"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0	0	0	0	0	0	4,327.83	0	4,159.76	0	3,984.52	0	3,793.06	0	3,599.12	0	3,321.15	0	3,062.47	0
1/4	1/4	1/4	1/4	1/4	1/4	4,323.84	1/4	4,156.30	1/4	3,980.66	1/4	3,789.02	1/4	3,595.08	1/4	3,313.69	1/4	2,954.98	1/4
1/2	1/2	1/2	1/2	1/2	1/2	4,319.86	1/2	4,152.83	1/2	3,976.80	1/2	3,784.98	1/2	3,591.04	1/2	3,306.24	1/2	2,947.49	1/2
3/4	3/4	3/4	3/4	3/4	3/4	4,315.87	3/4	4,149.37	3/4	3,972.84	3/4	3,780.94	3/4	3,586.99	3/4	3,298.78	3/4	2,940.00	3/4
1	1	1	1	1	1	4,311.88	1	4,145.91	1	3,969.07	1	3,776.90	1	3,582.95	1	3,291.33	1	2,932.51	1
1/4	1/4	1/4	1/4	1/4	1/4	4,307.89	1/4	4,142.41	1/4	3,965.18	1/4	3,772.86	1/4	3,578.91	1/4	3,283.87	1/4	2,925.03	1/4
1/2	1/2	1/2	1/2	1/2	1/2	4,303.91	1/2	4,138.91	1/2	3,961.29	1/2	3,768.82	1/2	3,574.87	1/2	3,276.42	1/2	2,917.54	1/2
3/4	3/4	3/4	3/4	3/4	3/4	4,299.92	3/4	4,135.41	3/4	3,957.40	3/4	3,764.78	3/4	3,570.83	3/4	3,268.96	3/4	2,910.05	3/4
2	2	2	2	2	2	4,295.93	2	4,131.92	2	3,953.51	2	3,760.74	2	3,566.79	2	3,261.51	2	2,902.56	2
1/4	1/4	1/4	1/4	1/4	1/4	4,291.99	1/4	4,128.37	1/4	3,949.59	1/4	3,756.70	1/4	3,562.75	1/4	3,254.05	1/4	2,895.07	1/4
1/2	1/2	1/2	1/2	1/2	1/2	4,288.06	1/2	4,124.83	1/2	3,945.67	1/2	3,752.66	1/2	3,558.71	1/2	3,246.60	1/2	2,887.58	1/2
3/4	3/4	3/4	3/4	3/4	3/4	4,284.12	3/4	4,121.29	3/4	3,941.75	3/4	3,748.61	3/4	3,554.67	3/4	3,239.14	3/4	2,880.09	3/4
3	3	3	3	3	3	4,280.19	3	4,117.74	3	3,937.83	3	3,744.57	3	3,550.63	3	3,231.69	3	2,872.60	3
1/4	1/4	1/4	1/4	1/4	1/4	4,276.66	1/4	4,114.17	1/4	3,933.88	1/4	3,740.53	1/4	3,546.59	1/4	3,224.23	1/4	2,865.11	1/4
1/2	1/2	1/2	1/2	1/2	1/2	4,273.14	1/2	4,110.59	1/2	3,929.92	1/2	3,736.49	1/2	3,542.55	1/2	3,216.78	1/2	2,857.62	1/2
3/4	3/4	3/4	3/4	3/4	3/4	4,269.61	3/4	4,107.01	3/4	3,925.97	3/4	3,732.45	3/4	3,538.51	3/4	3,209.32	3/4	2,850.13	3/4
4	4	4	4	4	4	4,266.09	4	4,103.44	4	3,922.02	4	3,728.41	4	3,534.47	4	3,201.87	4	2,842.65	4
1/4	1/4	1/4	1/4	1/4	1/4	4,262.88	1/4	4,099.83	1/4	3,918.04	1/4	3,724.37	1/4	3,530.43	1/4	3,194.41	1/4	2,835.16	1/4
1/2	1/2	1/2	1/2	1/2	1/2	4,259.67	1/2	4,096.22	1/2	3,914.05	1/2	3,720.33	1/2	3,526.39	1/2	3,186.96	1/2	2,827.67	1/2
3/4	3/4	3/4	3/4	3/4	3/4	4,256.46	3/4	4,092.62	3/4	3,910.07	3/4	3,716.29	3/4	3,522.35	3/4	3,179.50	3/4	2,820.18	3/4
5	5	5	5	5	5	4,253.25	5	4,089.01	5	3,906.08	5	3,712.25	5	3,518.31	5	3,172.05	5	2,812.69	5
1/4	1/4	1/4	1/4	1/4	1/4	4,250.00	1/4	4,085.38	1/4	3,902.06	1/4	3,708.21	1/4	3,513.84	1/4	3,164.59	1/4	2,805.20	1/4
1/2	1/2	1/2	1/2	1/2	1/2	4,246.76	1/2	4,081.74	1/2	3,898.05	1/2	3,704.17	1/2	3,509.37	1/2	3,157.13	1/2	2,797.71	1/2
3/4	3/4	3/4	3/4	3/4	3/4	4,243.52	3/4	4,078.10	3/4	3,894.03	3/4	3,700.13	3/4	3,504.90	3/4	3,149.67	3/4	2,790.22	3/4
6	6	6	6	6	6	4,240.27	6	4,074.47	6	3,890.01	6	3,696.09	6	3,500.43	6	3,142.21	6	2,782.73	6
1/4	1/4	1/4	1/4	1/4	1/4	4,236.99	1/4	4,070.80	1/4	3,885.98	1/4	3,692.05	1/4	3,492.96	1/4	3,134.72	1/4	2,775.22	1/4
1/2	1/2	1/2	1/2	1/2	1/2	4,233.72	1/2	4,067.13	1/2	3,881.94	1/2	3,688.01	1/2	3,488.49	1/2	3,127.23	1/2	2,767.72	1/2
3/4	3/4	3/4	3/4	3/4	3/4	4,230.44	3/4	4,063.47	3/4	3,877.91	3/4	3,683.97	3/4	3,478.02	3/4	3,119.74	3/4	2,760.21	3/4
7	7	7	7	7	7	4,227.16	7	4,059.80	7	3,873.87	7	3,679.93	7	3,470.55	7	3,112.25	7	2,752.71	7
1/4	1/4	1/4	1/4	1/4	1/4	4,223.85	1/4	4,056.10	1/4	3,869.83	1/4	3,675.89	1/4	3,463.08	1/4	3,104.76	1/4	2,745.21	1/4
1/2	1/2	1/2	1/2	1/2	1/2	4,220.55	1/2	4,052.40	1/2	3,865.79	1/2	3,671.85	1/2	3,455.61	1/2	3,097.27	1/2	2,737.71	1/2
3/4	3/4	3/4	3/4	3/4	3/4	4,217.24	3/4	4,048.70	3/4	3,861.75	3/4	3,667.80	3/4	3,448.14	3/4	3,089.79	3/4	2,730.21	3/4
8	8	8	8	8	8	4,213.93	8	4,045.00	8	3,857.71	8	3,663.76	8	3,440.67	8	3,082.30	8	2,722.70	8
1/4	1/4	1/4	1/4	1/4	1/4	4,210.59	1/4	4,041.26	1/4	3,853.67	1/4	3,659.72	1/4	3,433.20	1/4	3,074.81	1/4	2,715.20	1/4
1/2	1/2	1/2	1/2	1/2	1/2	4,207.26	1/2	4,037.53	1/2	3,849.63	1/2	3,655.68	1/2	3,425.72	1/2	3,067.32	1/2	2,707.70	1/2
3/4	3/4	3/4	3/4	3/4	3/4	4,203.92	3/4	4,033.79	3/4	3,845.59	3/4	3,651.64	3/4	3,418.25	3/4	3,059.83	3/4	2,700.20	3/4
9	9	9	9	9	9	4,200.58	9	4,030.06	9	3,841.55	9	3,647.60	9	3,410.78	9	3,052.34	9	2,692.70	9
1/4	1/4	1/4	1/4	1/4	1/4	4,197.21	1/4	4,026.30	1/4	3,837.51	1/4	3,643.56	1/4	3,403.31	1/4	3,044.85	1/4	2,685.19	1/4
1/2	1/2	1/2	1/2	1/2	1/2	4,193.85	1/2	4,022.53	1/2	3,833.47	1/2	3,639.52	1/2	3,395.84	1/2	3,037.36	1/2	2,677.69	1/2
3/4	3/4	3/4	3/4	3/4	3/4	4,190.48	3/4	4,018.77	3/4	3,829.42	3/4	3,635.48	3/4	3,388.37	3/4	3,029.87	3/4	2,670.19	3/4
10	10	10	10	10	10	4,187.11	10	4,015.01	10	3,825.38	10	3,631.44	10	3,380.90	10	3,022.38	10	2,662.69	10
1/4	1/4	1/4	1/4	1/4	1/4	4,183.71	1/4	4,011.21	1/4	3,821.34	1/4	3,627.40	1/4	3,373.43	1/4	3,014.89	1/4	2,655.19	1/4
1/2	1/2	1/2	1/2	1/2	1/2	4,180.31	1/2	4,007.42	1/2	3,817.30	1/2	3,623.36	1/2	3,365.96	1/2	3,007.41	1/2	2,647.68	1/2
3/4	3/4	3/4	3/4	3/4	3/4	4,176.90	3/4	4,003.62	3/4	3,813.26	3/4	3,619.32	3/4	3,358.49	3/4	2,999.92	3/4	2,640.18	3/4
11	11	11	11	11	11	4,173.50	11	3,999.83	11	3,809.22	11	3,615.28	11	3,351.02	11	2,992.43	11	2,632.68	11
1/4	1/4	1/4	1/4	1/4	1/4	4,170.07	1/4	3,996.00	1/4	3,805.18	1/4	3,611.24	1/4	3,343.55	1/4	2,984.94	1/4	2,625.18	1/4
1/2	1/2	1/2	1/2	1/2	1/2	4,166.63	1/2	3,992.17	1/2	3,801.14	1/2	3,607.20	1/2	3,336.08	1/2	2,977.45	1/2	2,617.68	1/2
3/4	3/4	3/4	3/4	3/4	3/4	4,163.20	3/4	3,988.35	3/4	3,797.10	3/4	3,603.16	3/4	3,328.61	3/4	2,969.96	3/4	2,610.18	3/4

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE

GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 55'-03" 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>

John J. PMA



BARGE "EMS 512"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0	2,602.67	0	2,242.52	0	1,882.32	0	1,522.08	0	1,161.89	0	801.97	0	441.74	0	86.74	0	0	0	0
1/4	2,595.17	1/4	2,235.01	1/4	1,874.82	1/4	1,514.57	1/4	1,154.39	1/4	794.47	1/4	434.26	1/4	80.03	1/4	1/4	1/4	1/4
1/2	2,587.67	1/2	2,227.51	1/2	1,867.31	1/2	1,507.07	1/2	1,146.90	1/2	786.97	1/2	426.77	1/2	73.32	1/2	1/2	1/2	1/2
3/4	2,580.16	3/4	2,220.01	3/4	1,859.81	3/4	1,499.56	3/4	1,139.40	3/4	779.46	3/4	419.29	3/4	66.61	3/4	3/4	3/4	3/4
1	2,572.66	1	2,212.50	1	1,852.30	1	1,492.06	1	1,131.91	1	771.96	1	411.80	1	59.91	1	1	1	1
1/4	2,565.16	1/4	2,205.00	1/4	1,844.80	1/4	1,484.55	1/4	1,124.41	1/4	764.45	1/4	404.44	1/4	54.45	1/4	1/4	1/4	1/4
1/2	2,557.65	1/2	2,197.50	1/2	1,837.29	1/2	1,477.05	1/2	1,116.91	1/2	756.95	1/2	397.08	1/2	48.99	1/2	1/2	1/2	1/2
3/4	2,550.15	3/4	2,189.99	3/4	1,829.79	3/4	1,469.54	3/4	1,109.42	3/4	748.44	3/4	389.73	3/4	43.54	3/4	3/4	3/4	3/4
2	2,542.65	2	2,182.49	2	1,822.28	2	1,462.04	2	1,101.92	2	741.94	2	382.37	2	38.08	2	2	2	2
1/4	2,535.15	1/4	2,174.99	1/4	1,814.78	1/4	1,454.53	1/4	1,094.43	1/4	734.43	1/4	375.01	1/4	33.87	1/4	1/4	1/4	1/4
1/2	2,527.64	1/2	2,167.48	1/2	1,807.27	1/2	1,447.03	1/2	1,086.93	1/2	726.93	1/2	367.66	1/2	29.66	1/2	1/2	1/2	1/2
3/4	2,520.14	3/4	2,159.98	3/4	1,799.77	3/4	1,439.52	3/4	1,079.44	3/4	719.42	3/4	360.30	3/4	25.46	3/4	3/4	3/4	3/4
3	2,512.64	3	2,152.48	3	1,792.26	3	1,432.02	3	1,071.94	3	711.92	3	352.94	3	21.25	3	3	3	3
1/4	2,505.13	1/4	2,144.97	1/4	1,784.76	1/4	1,424.51	1/4	1,064.45	1/4	704.41	1/4	345.59	1/4	16.16	1/4	1/4	1/4	1/4
1/2	2,497.63	1/2	2,137.47	1/2	1,777.25	1/2	1,417.01	1/2	1,056.95	1/2	696.91	1/2	338.23	1/2	12.12	1/2	1/2	1/2	1/2
3/4	2,490.13	3/4	2,129.97	3/4	1,769.75	3/4	1,409.50	3/4	1,049.45	3/4	689.40	3/4	330.87	3/4	8.12	3/4	3/4	3/4	3/4
4	2,482.62	4	2,122.46	4	1,762.24	4	1,402.00	4	1,041.96	4	681.90	4	323.51	4	4.12	4	4	4	4
1/4	2,475.12	1/4	2,114.96	1/4	1,754.74	1/4	1,394.49	1/4	1,034.46	1/4	674.39	1/4	316.16	1/4	0.12	1/4	1/4	1/4	1/4
1/2	2,467.62	1/2	2,107.46	1/2	1,747.23	1/2	1,386.99	1/2	1,026.97	1/2	666.89	1/2	308.80	1/2	0.12	1/2	1/2	1/2	1/2
3/4	2,460.11	3/4	2,099.95	3/4	1,739.73	3/4	1,379.48	3/4	1,019.47	3/4	659.38	3/4	301.44	3/4	0.12	3/4	3/4	3/4	3/4
5	2,452.61	5	2,092.45	5	1,732.22	5	1,371.98	5	1,011.98	5	651.88	5	294.09	5	0.12	5	5	5	5
1/4	2,445.11	1/4	2,084.95	1/4	1,724.72	1/4	1,364.47	1/4	1,004.48	1/4	644.37	1/4	286.73	1/4	0.12	1/4	1/4	1/4	1/4
1/2	2,437.60	1/2	2,077.44	1/2	1,717.21	1/2	1,356.97	1/2	996.99	1/2	636.87	1/2	279.37	1/2	0.12	1/2	1/2	1/2	1/2
3/4	2,430.10	3/4	2,069.94	3/4	1,709.71	3/4	1,349.46	3/4	989.49	3/4	629.36	3/4	272.01	3/4	0.12	3/4	3/4	3/4	3/4
6	2,422.60	6	2,062.44	6	1,702.20	6	1,341.96	6	981.99	6	621.86	6	264.66	6	0.12	6	6	6	6
1/4	2,415.09	1/4	2,054.93	1/4	1,694.70	1/4	1,334.45	1/4	974.50	1/4	614.35	1/4	257.30	1/4	0.12	1/4	1/4	1/4	1/4
1/2	2,407.59	1/2	2,047.43	1/2	1,687.19	1/2	1,326.95	1/2	967.00	1/2	606.85	1/2	249.94	1/2	0.12	1/2	1/2	1/2	1/2
3/4	2,400.09	3/4	2,039.93	3/4	1,679.69	3/4	1,319.44	3/4	959.51	3/4	599.35	3/4	242.59	3/4	0.12	3/4	3/4	3/4	3/4
7	2,392.58	7	2,032.43	7	1,672.18	7	1,311.94	7	952.01	7	591.84	7	235.23	7	0.12	7	7	7	7
1/4	2,385.08	1/4	2,024.92	1/4	1,664.68	1/4	1,304.43	1/4	944.52	1/4	584.34	1/4	227.87	1/4	0.12	1/4	1/4	1/4	1/4
1/2	2,377.58	1/2	2,017.42	1/2	1,657.17	1/2	1,296.93	1/2	937.02	1/2	576.83	1/2	220.51	1/2	0.12	1/2	1/2	1/2	1/2
3/4	2,370.07	3/4	2,009.91	3/4	1,649.67	3/4	1,289.42	3/4	929.52	3/4	569.33	3/4	213.16	3/4	0.12	3/4	3/4	3/4	3/4
8	2,362.57	8	2,002.41	8	1,642.16	8	1,281.92	8	922.03	8	561.82	8	205.80	8	0.12	8	8	8	8
1/4	2,355.07	1/4	1,994.90	1/4	1,634.66	1/4	1,274.41	1/4	914.53	1/4	554.32	1/4	198.43	1/4	0.12	1/4	1/4	1/4	1/4
1/2	2,347.56	1/2	1,987.40	1/2	1,627.15	1/2	1,266.91	1/2	907.03	1/2	546.81	1/2	191.05	1/2	0.12	1/2	1/2	1/2	1/2
3/4	2,340.06	3/4	1,979.89	3/4	1,619.65	3/4	1,259.40	3/4	899.53	3/4	539.31	3/4	183.68	3/4	0.12	3/4	3/4	3/4	3/4
9	2,332.56	9	1,972.39	9	1,612.14	9	1,251.90	9	892.03	9	531.80	9	176.31	9	0.12	9	9	9	9
1/4	2,325.05	1/4	1,964.88	1/4	1,604.64	1/4	1,244.39	1/4	884.53	1/4	524.30	1/4	168.82	1/4	0.12	1/4	1/4	1/4	1/4
1/2	2,317.55	1/2	1,957.38	1/2	1,597.13	1/2	1,236.89	1/2	877.02	1/2	516.79	1/2	161.33	1/2	0.12	1/2	1/2	1/2	1/2
3/4	2,310.05	3/4	1,949.87	3/4	1,589.63	3/4	1,229.38	3/4	869.52	3/4	509.29	3/4	153.84	3/4	0.12	3/4	3/4	3/4	3/4
10	2,302.54	10	1,942.36	10	1,582.12	10	1,221.88	10	862.01	10	501.78	10	146.35	10	0.12	10	10	10	10
1/4	2,295.04	1/4	1,934.86	1/4	1,574.61	1/4	1,214.37	1/4	854.51	1/4	494.28	1/4	138.86	1/4	0.12	1/4	1/4	1/4	1/4
1/2	2,287.54	1/2	1,927.35	1/2	1,567.11	1/2	1,206.87	1/2	847.00	1/2	486.77	1/2	131.37	1/2	0.12	1/2	1/2	1/2	1/2
3/4	2,280.03	3/4	1,919.85	3/4	1,559.60	3/4	1,199.37	3/4	839.50	3/4	479.27	3/4	123.88	3/4	0.12	3/4	3/4	3/4	3/4
11	2,272.53	11	1,912.34	11	1,552.10	11	1,191.87	11	831.99	11	471.76	11	116.39	11	0.12	11	11	11	11
1/4	2,265.03	1/4	1,904.84	1/4	1,544.59	1/4	1,184.38	1/4	824.49	1/4	464.26	1/4	108.97	1/4	0.12	1/4	1/4	1/4	1/4
1/2	2,257.52	1/2	1,897.33	1/2	1,537.09	1/2	1,176.88	1/2	816.98	1/2	456.75	1/2	101.56	1/2	0.12	1/2	1/2	1/2	1/2
3/4	2,250.02	3/4	1,889.83	3/4	1,529.58	3/4	1,169.38	3/4	809.48	3/4	449.25	3/4	94.15	3/4	0.12	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/24/2019 CL
CALCULATED: 01/25/2019 CL
PRINTED: 01/25/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2019

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

Paul J. Mac



SHEET NO. 11 OF 12



BARGE "EMS 512"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4	2,569.07	1/4	2,210.07	1/4	1,851.02	1/4	1,491.94	1/4	1,136.15	1/4	792.20	1/4	433.03	1/4	79.82	1/4	0	1/4	0
1/2	2,561.59	1/2	2,202.59	1/2	1,843.54	1/2	1,484.46	1/2	1,129.01	1/2	784.72	1/2	425.57	1/2	73.15	1/2	1/4	1/4	1/4
3/4	2,554.11	3/4	2,195.11	3/4	1,836.06	3/4	1,476.99	3/4	1,121.86	3/4	777.24	3/4	418.10	3/4	66.47	3/4	1/2	1/2	1/2
1	2,546.63	1	2,187.63	1	1,828.58	1	1,469.52	1	1,114.72	1	769.75	1	410.64	1	59.79	1	3/4	3/4	3/4
1 1/4	2,539.15	1 1/4	2,180.15	1 1/4	1,821.10	1 1/4	1,462.10	1 1/4	1,107.57	1 1/4	762.27	1 1/4	403.30	1 1/4	54.35	1 1/4	1	1	1
1 1/2	2,531.68	1 1/2	2,172.67	1 1/2	1,813.62	1 1/2	1,454.68	1 1/2	1,100.42	1 1/2	754.79	1 1/2	395.97	1 1/2	48.91	1 1/2	1/4	1/4	1/4
1 3/4	2,524.20	1 3/4	2,165.19	1 3/4	1,806.13	1 3/4	1,447.26	1 3/4	1,093.28	1 3/4	747.30	1 3/4	388.63	1 3/4	43.47	1 3/4	1/2	1/2	1/2
2	2,516.72	2	2,157.71	2	1,798.65	2	1,439.84	2	1,086.13	2	739.82	2	381.30	2	38.03	2	3/4	3/4	3/4
2 1/4	2,509.24	2 1/4	2,150.23	2 1/4	1,791.17	2 1/4	1,432.42	2 1/4	1,078.99	2 1/4	732.34	2 1/4	373.96	2 1/4	33.83	2 1/4	2	2	2
2 1/2	2,501.76	2 1/2	2,142.75	2 1/2	1,783.69	2 1/2	1,425.00	2 1/2	1,071.84	2 1/2	724.86	2 1/2	366.63	2 1/2	29.63	2 1/2	1/4	1/4	1/4
2 3/4	2,494.28	2 3/4	2,135.27	2 3/4	1,776.21	2 3/4	1,417.58	2 3/4	1,064.69	2 3/4	717.37	2 3/4	359.29	2 3/4	25.42	2 3/4	1/2	1/2	1/2
3	2,486.80	3	2,127.79	3	1,768.73	3	1,410.16	3	1,057.55	3	709.89	3	351.95	3	21.22	3	3/4	3/4	3/4
3 1/4	2,479.32	3 1/4	2,120.31	3 1/4	1,761.25	3 1/4	1,402.74	3 1/4	1,050.40	3 1/4	702.41	3 1/4	344.62	3 1/4	17.00	3 1/4	1	1	1
3 1/2	2,471.84	3 1/2	2,112.83	3 1/2	1,753.77	3 1/2	1,395.32	3 1/2	1,043.25	3 1/2	694.92	3 1/2	337.28	3 1/2	13.79	3 1/2	1/4	1/4	1/4
3 3/4	2,464.36	3 3/4	2,105.36	3 3/4	1,746.29	3 3/4	1,387.90	3 3/4	1,036.11	3 3/4	687.44	3 3/4	329.95	3 3/4	10.56	3 3/4	1/2	1/2	1/2
4	2,456.88	4	2,097.88	4	1,738.80	4	1,380.48	4	1,028.96	4	679.96	4	322.61	4	7.33	4	3/4	3/4	3/4
4 1/4	2,449.40	4 1/4	2,090.40	4 1/4	1,731.32	4 1/4	1,373.06	4 1/4	1,021.82	4 1/4	672.47	4 1/4	315.28	4 1/4	4.10	4 1/4	2	2	2
4 1/2	2,441.92	4 1/2	2,082.92	4 1/2	1,723.84	4 1/2	1,365.64	4 1/2	1,014.67	4 1/2	664.99	4 1/2	307.94	4 1/2	0.87	4 1/2	1/4	1/4	1/4
4 3/4	2,434.44	4 3/4	2,075.44	4 3/4	1,716.36	4 3/4	1,358.22	4 3/4	1,007.52	4 3/4	657.51	4 3/4	300.60	4 3/4	0.64	4 3/4	1/2	1/2	1/2
5	2,426.97	5	2,067.96	5	1,708.88	5	1,350.80	5	1,000.38	5	650.02	5	293.27	5	0.41	5	3/4	3/4	3/4
5 1/4	2,419.49	5 1/4	2,060.48	5 1/4	1,701.40	5 1/4	1,343.39	5 1/4	993.23	5 1/4	642.54	5 1/4	285.93	5 1/4	0.18	5 1/4	1	1	1
5 1/2	2,412.01	5 1/2	2,053.00	5 1/2	1,693.92	5 1/2	1,335.97	5 1/2	986.09	5 1/2	635.06	5 1/2	278.60	5 1/2	0.00	5 1/2	1/4	1/4	1/4
5 3/4	2,404.53	5 3/4	2,045.52	5 3/4	1,686.44	5 3/4	1,328.55	5 3/4	978.94	5 3/4	627.57	5 3/4	271.26	5 3/4	0.00	5 3/4	1/2	1/2	1/2
6	2,397.05	6	2,038.04	6	1,678.96	6	1,321.13	6	971.79	6	620.09	6	263.93	6	0.00	6	3/4	3/4	3/4
6 1/4	2,389.57	6 1/4	2,030.56	6 1/4	1,671.47	6 1/4	1,313.71	6 1/4	964.65	6 1/4	612.61	6 1/4	256.59	6 1/4	0.00	6 1/4	2	2	2
6 1/2	2,382.09	6 1/2	2,023.08	6 1/2	1,663.99	6 1/2	1,306.29	6 1/2	957.50	6 1/2	605.13	6 1/2	249.25	6 1/2	0.00	6 1/2	1/4	1/4	1/4
6 3/4	2,374.61	6 3/4	2,015.60	6 3/4	1,656.51	6 3/4	1,298.87	6 3/4	950.36	6 3/4	597.64	6 3/4	241.92	6 3/4	0.00	6 3/4	1/2	1/2	1/2
7	2,367.13	7	2,008.12	7	1,649.03	7	1,291.45	7	943.21	7	590.16	7	234.58	7	0.00	7	3/4	3/4	3/4
7 1/4	2,359.65	7 1/4	2,000.64	7 1/4	1,641.55	7 1/4	1,284.03	7 1/4	936.06	7 1/4	582.68	7 1/4	227.25	7 1/4	0.00	7 1/4	2	2	2
7 1/2	2,352.17	7 1/2	1,993.16	7 1/2	1,634.07	7 1/2	1,276.61	7 1/2	928.92	7 1/2	575.19	7 1/2	219.91	7 1/2	0.00	7 1/2	1/4	1/4	1/4
7 3/4	2,344.69	7 3/4	1,985.68	7 3/4	1,626.59	7 3/4	1,269.19	7 3/4	921.77	7 3/4	567.71	7 3/4	212.58	7 3/4	0.00	7 3/4	1/2	1/2	1/2
8	2,337.21	8	1,978.20	8	1,619.11	8	1,261.77	8	914.62	8	560.23	8	205.24	8	0.00	8	3/4	3/4	3/4
8 1/4	2,329.73	8 1/4	1,970.72	8 1/4	1,611.63	8 1/4	1,254.35	8 1/4	907.47	8 1/4	552.74	8 1/4	197.89	8 1/4	0.00	8 1/4	2	2	2
8 1/2	2,322.26	8 1/2	1,963.24	8 1/2	1,604.14	8 1/2	1,246.94	8 1/2	900.32	8 1/2	545.26	8 1/2	190.54	8 1/2	0.00	8 1/2	1/4	1/4	1/4
8 3/4	2,314.78	8 3/4	1,955.76	8 3/4	1,596.66	8 3/4	1,239.52	8 3/4	893.17	8 3/4	537.78	8 3/4	183.18	8 3/4	0.00	8 3/4	1/2	1/2	1/2
9	2,307.30	9	1,948.28	9	1,589.18	9	1,232.10	9	886.02	9	530.29	9	175.83	9	0.00	9	3/4	3/4	3/4
9 1/4	2,299.82	9 1/4	1,940.79	9 1/4	1,581.70	9 1/4	1,224.70	9 1/4	878.84	9 1/4	522.81	9 1/4	168.36	9 1/4	0.00	9 1/4	2	2	2
9 1/2	2,292.34	9 1/2	1,933.31	9 1/2	1,574.22	9 1/2	1,217.30	9 1/2	871.67	9 1/2	515.33	9 1/2	160.89	9 1/2	0.00	9 1/2	1/4	1/4	1/4
9 3/4	2,284.86	9 3/4	1,925.83	9 3/4	1,566.74	9 3/4	1,209.89	9 3/4	864.50	9 3/4	507.85	9 3/4	153.42	9 3/4	0.00	9 3/4	1/2	1/2	1/2
10	2,277.38	10	1,918.35	10	1,559.26	10	1,202.49	10	857.33	10	500.36	10	145.96	10	0.00	10	3/4	3/4	3/4
10 1/4	2,269.90	10 1/4	1,910.87	10 1/4	1,551.78	10 1/4	1,195.09	10 1/4	850.15	10 1/4	492.88	10 1/4	138.48	10 1/4	0.00	10 1/4	2	2	2
10 1/2	2,262.42	10 1/2	1,903.39	10 1/2	1,544.30	10 1/2	1,187.68	10 1/2	842.98	10 1/2	485.40	10 1/2	131.01	10 1/2	0.00	10 1/2	1/4	1/4	1/4
10 3/4	2,254.94	10 3/4	1,895.91	10 3/4	1,536.81	10 3/4	1,180.28	10 3/4	835.80	10 3/4	477.91	10 3/4	123.53	10 3/4	0.00	10 3/4	1/2	1/2	1/2
11	2,247.46	11	1,888.43	11	1,529.33	11	1,172.88	11	828.63	11	470.43	11	116.06	11	0.00	11	3/4	3/4	3/4
11 1/4	2,239.98	11 1/4	1,880.95	11 1/4	1,521.85	11 1/4	1,165.48	11 1/4	821.39	11 1/4	462.95	11 1/4	108.67	11 1/4	0.00	11 1/4	2	2	2
11 1/2	2,232.50	11 1/2	1,873.46	11 1/2	1,514.37	11 1/2	1,158.09	11 1/2	814.16	11 1/2	455.46	11 1/2	101.28	11 1/2	0.00	11 1/2	1/4	1/4	1/4
11 3/4	2,225.02	11 3/4	1,865.98	11 3/4	1,506.89	11 3/4	1,150.69	11 3/4	806.92	11 3/4	447.98	11 3/4	93.89	11 3/4	0.00	11 3/4	1/2	1/2	1/2
12	2,217.54	12	1,858.50	12	1,499.41	12	1,143.30	12	799.69	12	440.50	12	86.50	12	0.00	12	3/4	3/4	3/4

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CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2019

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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