



BARGE "E2MS 109"

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 CENTER	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
2 CENTER	- 00-3/8	00-3/8	- 00-3/4	00-3/4	- 01-1/8	01-1/8	- 01-3/8	01-3/8	- 01-3/4	01-3/4	- 02-1/8	02-1/8
3 CENTER	00-1/8	- 00-1/8	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-5/8	- 00-5/8	00-7/8	- 00-7/8	01-0/8	- 01-0/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 168'-00"

June 4, 2020

PRECISION MEASUREMENT
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 P.O. Box 2092
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<http://www.pmacorp.net>



BARGE "E2MS 109"

1 CENTER INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-03"

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	4.29	0	255.85	0	543.47	0	826.21	0	1,110.07	0	1,397.15	0	1,684.23	0	1,970.41	0	2,257.60	0	2,544.80
1/4	5.29	1/4	261.85	1/4	549.45	1/4	831.99	1/4	1,116.06	1/4	1,403.13	1/4	1,690.21	1/4	1,976.39	1/4	2,263.59	1/4	2,550.78
1/2	6.29	1/2	267.84	1/2	555.44	1/2	837.77	1/2	1,122.04	1/2	1,409.11	1/2	1,696.19	1/2	1,982.38	1/2	2,269.57	1/2	2,556.76
3/4	7.29	3/4	273.84	3/4	561.42	3/4	843.55	3/4	1,128.02	3/4	1,415.10	3/4	1,702.17	3/4	1,988.36	3/4	2,275.55	3/4	2,562.75
1	8.29	1	279.84	1	567.41	1	849.33	1	1,134.00	1	1,421.08	1	1,708.15	1	1,994.34	1	2,281.54	1	2,568.73
1/4	11.29	1/4	285.83	1/4	573.39	1/4	855.11	1/4	1,139.98	1/4	1,427.06	1/4	1,714.14	1/4	2,000.33	1/4	2,287.52	1/4	2,574.71
1/2	14.29	1/2	291.83	1/2	579.37	1/2	860.89	1/2	1,145.96	1/2	1,433.04	1/2	1,720.12	1/2	2,006.31	1/2	2,293.50	1/2	2,580.70
3/4	17.29	3/4	297.83	3/4	585.36	3/4	866.67	3/4	1,151.94	3/4	1,439.02	3/4	1,726.10	3/4	2,012.29	3/4	2,299.49	3/4	2,586.68
2	20.28	2	303.82	2	591.34	2	872.45	2	1,157.92	2	1,445.00	2	1,732.08	2	2,018.28	2	2,305.47	2	2,592.66
1/4	25.28	1/4	309.82	1/4	597.33	1/4	878.23	1/4	1,163.90	1/4	1,450.98	1/4	1,738.04	1/4	2,024.26	1/4	2,311.45	1/4	2,598.65
1/2	30.27	1/2	315.81	1/2	603.31	1/2	884.01	1/2	1,169.88	1/2	1,456.96	1/2	1,743.99	1/2	2,030.24	1/2	2,317.44	1/2	2,604.63
3/4	35.27	3/4	321.81	3/4	609.30	3/4	889.79	3/4	1,175.86	3/4	1,462.94	3/4	1,749.95	3/4	2,036.23	3/4	2,323.42	3/4	2,610.61
3	40.26	3	327.81	3	615.28	3	895.57	3	1,181.84	3	1,468.92	3	1,755.91	3	2,042.21	3	2,329.40	3	2,616.60
1/4	46.21	1/4	333.80	1/4	621.27	1/4	901.35	1/4	1,187.83	1/4	1,474.90	1/4	1,761.87	1/4	2,048.19	1/4	2,335.39	1/4	2,622.58
1/2	52.15	1/2	339.80	1/2	627.25	1/2	907.13	1/2	1,193.81	1/2	1,480.88	1/2	1,767.83	1/2	2,054.17	1/2	2,341.37	1/2	2,628.56
3/4	58.09	3/4	345.79	3/4	633.24	3/4	912.91	3/4	1,199.79	3/4	1,486.87	3/4	1,773.79	3/4	2,060.16	3/4	2,347.35	3/4	2,634.55
4	64.04	4	351.78	4	639.22	4	918.69	4	1,205.77	4	1,492.85	4	1,779.74	4	2,066.14	4	2,353.33	4	2,640.53
1/4	70.02	1/4	357.78	1/4	645.20	1/4	924.67	1/4	1,211.75	1/4	1,498.83	1/4	1,785.70	1/4	2,072.12	1/4	2,359.32	1/4	2,646.51
1/2	76.00	1/2	363.77	1/2	651.19	1/2	930.65	1/2	1,217.73	1/2	1,504.81	1/2	1,791.66	1/2	2,078.11	1/2	2,365.30	1/2	2,652.49
3/4	81.98	3/4	369.77	3/4	657.17	3/4	936.63	3/4	1,223.71	3/4	1,510.79	3/4	1,797.62	3/4	2,084.09	3/4	2,371.28	3/4	2,658.48
5	87.96	5	375.76	5	663.16	5	942.61	5	1,229.69	5	1,516.77	5	1,803.58	5	2,090.07	5	2,377.27	5	2,664.46
1/4	93.96	1/4	381.76	1/4	669.14	1/4	948.59	1/4	1,235.67	1/4	1,522.75	1/4	1,809.54	1/4	2,096.06	1/4	2,383.25	1/4	2,670.44
1/2	99.95	1/2	387.75	1/2	675.13	1/2	954.57	1/2	1,241.65	1/2	1,528.73	1/2	1,815.49	1/2	2,102.04	1/2	2,389.23	1/2	2,676.43
3/4	105.95	3/4	393.75	3/4	681.11	3/4	960.55	3/4	1,247.63	3/4	1,534.71	3/4	1,821.45	3/4	2,108.02	3/4	2,395.22	3/4	2,682.41
6	111.94	6	399.75	6	687.10	6	966.54	6	1,253.61	6	1,540.69	6	1,827.41	6	2,114.01	6	2,401.20	6	2,688.39
1/4	117.94	1/4	405.74	1/4	692.93	1/4	972.52	1/4	1,259.59	1/4	1,546.67	1/4	1,833.37	1/4	2,119.99	1/4	2,407.18	1/4	2,694.38
1/2	123.93	1/2	411.74	1/2	698.76	1/2	978.50	1/2	1,265.58	1/2	1,552.65	1/2	1,839.33	1/2	2,125.97	1/2	2,413.17	1/2	2,700.36
3/4	129.93	3/4	417.73	3/4	704.59	3/4	984.48	3/4	1,271.56	3/4	1,558.63	3/4	1,845.29	3/4	2,131.96	3/4	2,419.15	3/4	2,706.34
7	135.93	7	423.73	7	710.42	7	990.46	7	1,277.54	7	1,564.62	7	1,851.24	7	2,137.94	7	2,425.13	7	2,712.33
1/4	141.92	1/4	429.73	1/4	716.25	1/4	996.44	1/4	1,283.52	1/4	1,570.60	1/4	1,857.20	1/4	2,143.92	1/4	2,431.12	1/4	2,718.31
1/2	147.92	1/2	435.72	1/2	722.08	1/2	1,002.42	1/2	1,289.50	1/2	1,576.58	1/2	1,863.16	1/2	2,149.91	1/2	2,437.10	1/2	2,724.29
3/4	153.91	3/4	441.72	3/4	727.91	3/4	1,008.40	3/4	1,295.48	3/4	1,582.56	3/4	1,869.12	3/4	2,155.89	3/4	2,443.08	3/4	2,730.28
8	159.91	8	447.72	8	733.74	8	1,014.38	8	1,301.46	8	1,588.54	8	1,875.08	8	2,161.87	8	2,449.07	8	2,736.26
1/4	165.91	1/4	453.70	1/4	739.52	1/4	1,020.36	1/4	1,307.44	1/4	1,594.52	1/4	1,881.04	1/4	2,167.86	1/4	2,455.05	1/4	2,742.24
1/2	171.90	1/2	459.68	1/2	745.30	1/2	1,026.34	1/2	1,313.42	1/2	1,600.50	1/2	1,886.99	1/2	2,173.84	1/2	2,461.03	1/2	2,748.23
3/4	177.90	3/4	465.67	3/4	751.08	3/4	1,032.32	3/4	1,319.40	3/4	1,606.48	3/4	1,892.95	3/4	2,179.82	3/4	2,467.02	3/4	2,754.21
9	183.90	9	471.65	9	756.86	9	1,038.31	9	1,325.38	9	1,612.46	9	1,898.91	9	2,185.81	9	2,473.00	9	2,760.19
1/4	189.89	1/4	477.64	1/4	762.64	1/4	1,044.29	1/4	1,331.36	1/4	1,618.44	1/4	1,904.87	1/4	2,191.79	1/4	2,478.98	1/4	2,766.18
1/2	195.89	1/2	483.62	1/2	768.42	1/2	1,050.27	1/2	1,337.35	1/2	1,624.42	1/2	1,910.83	1/2	2,197.77	1/2	2,484.97	1/2	2,772.16
3/4	201.89	3/4	489.61	3/4	774.20	3/4	1,056.25	3/4	1,343.33	3/4	1,630.40	3/4	1,916.79	3/4	2,203.75	3/4	2,490.95	3/4	2,778.14
10	207.88	10	495.59	10	779.98	10	1,062.23	10	1,349.31	10	1,636.39	10	1,922.74	10	2,209.74	10	2,496.93	10	2,784.13
1/4	213.88	1/4	501.58	1/4	785.76	1/4	1,068.21	1/4	1,355.29	1/4	1,642.37	1/4	1,928.70	1/4	2,215.72	1/4	2,502.91	1/4	2,790.10
1/2	219.87	1/2	507.56	1/2	791.54	1/2	1,074.19	1/2	1,361.27	1/2	1,648.35	1/2	1,934.66	1/2	2,221.70	1/2	2,508.90	1/2	2,796.07
3/4	225.87	3/4	513.55	3/4	797.32	3/4	1,080.17	3/4	1,367.25	3/4	1,654.33	3/4	1,940.62	3/4	2,227.69	3/4	2,514.88	3/4	2,802.05
11	231.87	11	519.53	11	803.10	11	1,086.15	11	1,373.23	11	1,660.31	11	1,946.58	11	2,233.67	11	2,520.86	11	2,808.02
1/4	237.86	1/4	525.51	1/4	808.87	1/4	1,092.13	1/4	1,379.21	1/4	1,666.29	1/4	1,952.54	1/4	2,239.65	1/4	2,526.85	1/4	2,814.00
1/2	243.86	1/2	531.50	1/2	814.65	1/2	1,098.11	1/2	1,385.19	1/2	1,672.27	1/2	1,958.49	1/2	2,245.64	1/2	2,532.83	1/2	2,819.97
3/4	249.86	3/4	537.48	3/4	820.43	3/4	1,104.09	3/4	1,391.17	3/4	1,678.25	3/4	1,964.45	3/4	2,251.62	3/4	2,538.81	3/4	2,825.95

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" HERMETIC VALVE
 GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 31'-06" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
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BARGE "E2MS 109"

1 CENTER INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-03"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,831.92	0	3,100.09	0	3,346.33	0	3,592.57	0	3,838.81	0	4,085.50	0		0		0		0	
1/4	2,837.90	1/4	3,105.22	1/4	3,351.46	1/4	3,597.70	1/4	3,843.94	1/4	4,089.50	1/4		1/4		1/4		1/4	
1/2	2,843.87	1/2	3,110.35	1/2	3,356.59	1/2	3,602.83	1/2	3,849.07	1/2	4,093.49	1/2		1/2		1/2		1/2	
3/4	2,849.85	3/4	3,115.48	3/4	3,361.72	3/4	3,607.96	3/4	3,854.20	3/4	4,097.49	3/4		3/4		3/4		3/4	
1	2,855.82	1	3,120.61	1	3,366.85	1	3,613.09	1	3,859.33	1	4,101.49	1		1		1		1	
1/4	2,861.80	1/4	3,125.74	1/4	3,371.98	1/4	3,618.22	1/4	3,864.46	1/4	4,103.48	1/4		1/4		1/4		1/4	
1/2	2,867.77	1/2	3,130.87	1/2	3,377.11	1/2	3,623.35	1/2	3,869.59	1/2	4,105.48	1/2		1/2		1/2		1/2	
3/4	2,873.75	3/4	3,136.00	3/4	3,382.24	3/4	3,628.48	3/4	3,874.72	3/4	4,107.48	3/4		3/4		3/4		3/4	
2	2,879.72	2	3,141.13	2	3,387.37	2	3,633.61	2	3,879.85	2	4,109.48	2		2		2		2	
1/4	2,885.70	1/4	3,146.26	1/4	3,392.50	1/4	3,638.74	1/4	3,884.98	1/4	4,109.97	1/4		1/4		1/4		1/4	
1/2	2,891.67	1/2	3,151.39	1/2	3,397.63	1/2	3,643.87	1/2	3,890.11	1/2	4,110.47	1/2		1/2		1/2		1/2	
3/4	2,897.65	3/4	3,156.52	3/4	3,402.76	3/4	3,649.00	3/4	3,895.24	3/4		3/4		3/4		3/4		3/4	
3	2,903.62	3	3,161.65	3	3,407.89	3	3,654.13	3	3,900.37	3		3		3		3		3	
1/4	2,909.60	1/4	3,166.78	1/4	3,413.02	1/4	3,659.26	1/4	3,905.50	1/4		1/4		1/4		1/4		1/4	
1/2	2,915.57	1/2	3,171.91	1/2	3,418.15	1/2	3,664.39	1/2	3,910.63	1/2		1/2		1/2		1/2		1/2	
3/4	2,921.55	3/4	3,177.04	3/4	3,423.28	3/4	3,669.52	3/4	3,915.76	3/4		3/4		3/4		3/4		3/4	
4	2,927.52	4	3,182.17	4	3,428.41	4	3,674.65	4	3,920.89	4		4		4		4		4	
1/4	2,933.50	1/4	3,187.30	1/4	3,433.54	1/4	3,679.78	1/4	3,926.02	1/4		1/4		1/4		1/4		1/4	
1/2	2,939.47	1/2	3,192.43	1/2	3,438.67	1/2	3,684.91	1/2	3,931.15	1/2		1/2		1/2		1/2		1/2	
3/4	2,945.44	3/4	3,197.56	3/4	3,443.80	3/4	3,690.04	3/4	3,936.28	3/4		3/4		3/4		3/4		3/4	
5	2,951.42	5	3,202.69	5	3,448.93	5	3,695.17	5	3,941.41	5		5		5		5		5	
1/4	2,957.39	1/4	3,207.82	1/4	3,454.06	1/4	3,700.30	1/4	3,946.54	1/4		1/4		1/4		1/4		1/4	
1/2	2,963.37	1/2	3,212.95	1/2	3,459.19	1/2	3,705.43	1/2	3,951.67	1/2		1/2		1/2		1/2		1/2	
3/4	2,969.34	3/4	3,218.08	3/4	3,464.32	3/4	3,710.56	3/4	3,956.80	3/4		3/4		3/4		3/4		3/4	
6	2,975.32	6	3,223.21	6	3,469.45	6	3,715.69	6	3,961.93	6		6		6		6		6	
1/4	2,980.86	1/4	3,228.34	1/4	3,474.58	1/4	3,720.82	1/4	3,967.06	1/4		1/4		1/4		1/4		1/4	
1/2	2,986.40	1/2	3,233.47	1/2	3,479.71	1/2	3,725.95	1/2	3,972.19	1/2		1/2		1/2		1/2		1/2	
3/4	2,991.95	3/4	3,238.60	3/4	3,484.84	3/4	3,731.08	3/4	3,977.32	3/4		3/4		3/4		3/4		3/4	
7	2,997.49	7	3,243.73	7	3,489.97	7	3,736.21	7	3,982.45	7		7		7		7		7	
1/4	3,002.62	1/4	3,248.86	1/4	3,495.10	1/4	3,741.34	1/4	3,987.58	1/4		1/4		1/4		1/4		1/4	
1/2	3,007.75	1/2	3,253.99	1/2	3,500.23	1/2	3,746.47	1/2	3,992.71	1/2		1/2		1/2		1/2		1/2	
3/4	3,012.88	3/4	3,259.12	3/4	3,505.36	3/4	3,751.60	3/4	3,997.84	3/4		3/4		3/4		3/4		3/4	
8	3,018.01	8	3,264.25	8	3,510.49	8	3,756.73	8	4,002.97	8		8		8		8		8	
1/4	3,023.14	1/4	3,269.38	1/4	3,515.62	1/4	3,761.86	1/4	4,008.10	1/4		1/4		1/4		1/4		1/4	
1/2	3,028.27	1/2	3,274.51	1/2	3,520.75	1/2	3,766.99	1/2	4,013.23	1/2		1/2		1/2		1/2		1/2	
3/4	3,033.40	3/4	3,279.64	3/4	3,525.88	3/4	3,772.12	3/4	4,018.36	3/4		3/4		3/4		3/4		3/4	
9	3,038.53	9	3,284.77	9	3,531.01	9	3,777.25	9	4,023.49	9		9		9		9		9	
1/4	3,043.66	1/4	3,289.90	1/4	3,536.14	1/4	3,782.38	1/4	4,028.61	1/4		1/4		1/4		1/4		1/4	
1/2	3,048.79	1/2	3,295.03	1/2	3,541.27	1/2	3,787.51	1/2	4,033.74	1/2		1/2		1/2		1/2		1/2	
3/4	3,053.92	3/4	3,300.16	3/4	3,546.40	3/4	3,792.64	3/4	4,038.86	3/4		3/4		3/4		3/4		3/4	
10	3,059.05	10	3,305.29	10	3,551.53	10	3,797.77	10	4,043.99	10		10		10		10		10	
1/4	3,064.18	1/4	3,310.42	1/4	3,556.66	1/4	3,802.90	1/4	4,049.09	1/4		1/4		1/4		1/4		1/4	
1/2	3,069.31	1/2	3,315.55	1/2	3,561.79	1/2	3,808.03	1/2	4,054.19	1/2		1/2		1/2		1/2		1/2	
3/4	3,074.44	3/4	3,320.68	3/4	3,566.92	3/4	3,813.16	3/4	4,059.29	3/4		3/4		3/4		3/4		3/4	
11	3,079.57	11	3,325.81	11	3,572.05	11	3,818.29	11	4,064.40	11		11		11		11		11	
1/4	3,084.70	1/4	3,330.94	1/4	3,577.18	1/4	3,823.42	1/4	4,069.67	1/4		1/4		1/4		1/4		1/4	
1/2	3,089.83	1/2	3,336.07	1/2	3,582.31	1/2	3,828.55	1/2	4,074.95	1/2		1/2		1/2		1/2		1/2	
3/4	3,094.96	3/4	3,341.20	3/4	3,587.44	3/4	3,833.68	3/4	4,080.23	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/04/2020 JS
CALCULATED: 06/04/2020 CL
PRINTED: 06/04/2020 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2020

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "E2MS 109"

2 CENTER INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-03"

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	0.74	0	214.03	0	458.08	0	698.50	0	940.17	0	1,184.23	0	1,428.29	0	1,672.35	0	1,916.41	0	2,160.48
1/4	1.58	1/4	219.12	1/4	463.16	1/4	703.43	1/4	945.26	1/4	1,189.32	1/4	1,433.38	1/4	1,677.44	1/4	1,921.50	1/4	2,165.56
1/2	2.43	1/2	224.20	1/2	468.25	1/2	708.37	1/2	950.34	1/2	1,194.40	1/2	1,438.46	1/2	1,682.52	1/2	1,926.58	1/2	2,170.64
3/4	3.28	3/4	229.29	3/4	473.33	3/4	713.30	3/4	955.43	3/4	1,199.49	3/4	1,443.55	3/4	1,687.61	3/4	1,931.67	3/4	2,175.73
1	4.12	1	234.37	1	478.42	1	718.24	1	960.51	1	1,204.57	1	1,448.63	1	1,692.69	1	1,936.75	1	2,180.81
1/4	6.67	1/4	239.45	1/4	483.50	1/4	723.17	1/4	965.59	1/4	1,209.66	1/4	1,453.72	1/4	1,697.78	1/4	1,941.84	1/4	2,185.90
1/2	9.21	1/2	244.54	1/2	488.59	1/2	728.11	1/2	970.68	1/2	1,214.74	1/2	1,458.80	1/2	1,702.86	1/2	1,946.92	1/2	2,190.98
3/4	11.75	3/4	249.62	3/4	493.67	3/4	733.04	3/4	975.76	3/4	1,219.82	3/4	1,463.89	3/4	1,707.95	3/4	1,952.01	3/4	2,196.07
2	14.29	2	254.71	2	498.75	2	737.98	2	980.85	2	1,224.91	2	1,468.97	2	1,713.03	2	1,957.09	2	2,201.15
1/4	18.53	1/4	259.79	1/4	503.84	1/4	742.91	1/4	985.93	1/4	1,229.99	1/4	1,474.05	1/4	1,718.12	1/4	1,962.18	1/4	2,206.24
1/2	22.76	1/2	264.88	1/2	508.92	1/2	747.85	1/2	991.02	1/2	1,235.08	1/2	1,479.14	1/2	1,723.20	1/2	1,967.26	1/2	2,211.32
3/4	27.00	3/4	269.96	3/4	514.01	3/4	752.79	3/4	996.10	3/4	1,240.16	3/4	1,484.22	3/4	1,728.28	3/4	1,972.35	3/4	2,216.41
3	31.23	3	275.04	3	519.09	3	757.72	3	1,001.19	3	1,245.25	3	1,489.31	3	1,733.37	3	1,977.43	3	2,221.49
1/4	36.27	1/4	280.13	1/4	524.18	1/4	762.66	1/4	1,006.27	1/4	1,250.33	1/4	1,494.39	1/4	1,738.45	1/4	1,982.51	1/4	2,226.58
1/2	41.31	1/2	285.21	1/2	529.26	1/2	767.59	1/2	1,011.36	1/2	1,255.42	1/2	1,499.48	1/2	1,743.54	1/2	1,987.60	1/2	2,231.66
3/4	46.35	3/4	290.30	3/4	534.34	3/4	772.53	3/4	1,016.44	3/4	1,260.50	3/4	1,504.56	3/4	1,748.62	3/4	1,992.68	3/4	2,236.74
4	51.39	4	295.38	4	539.43	4	777.46	4	1,021.53	4	1,265.59	4	1,509.65	4	1,753.71	4	1,997.77	4	2,241.83
1/4	56.46	1/4	300.47	1/4	544.51	1/4	782.55	1/4	1,026.61	1/4	1,270.67	1/4	1,514.73	1/4	1,758.79	1/4	2,002.85	1/4	2,246.91
1/2	61.54	1/2	305.55	1/2	549.60	1/2	787.63	1/2	1,031.69	1/2	1,275.76	1/2	1,519.82	1/2	1,763.88	1/2	2,007.94	1/2	2,252.00
3/4	66.61	3/4	310.63	3/4	554.68	3/4	792.72	3/4	1,036.78	3/4	1,280.84	3/4	1,524.90	3/4	1,768.96	3/4	2,013.02	3/4	2,257.08
5	71.68	5	315.72	5	559.77	5	797.80	5	1,041.86	5	1,285.92	5	1,529.98	5	1,774.05	5	2,018.11	5	2,262.17
1/4	76.76	1/4	320.80	1/4	564.85	1/4	802.89	1/4	1,046.95	1/4	1,291.01	1/4	1,535.07	1/4	1,779.13	1/4	2,023.19	1/4	2,267.25
1/2	81.84	1/2	325.89	1/2	569.93	1/2	807.97	1/2	1,052.03	1/2	1,296.09	1/2	1,540.15	1/2	1,784.21	1/2	2,028.28	1/2	2,272.34
3/4	86.93	3/4	330.97	3/4	575.02	3/4	813.06	3/4	1,057.12	3/4	1,301.18	3/4	1,545.24	3/4	1,789.30	3/4	2,033.36	3/4	2,277.42
6	92.01	6	336.06	6	580.10	6	818.14	6	1,062.20	6	1,306.26	6	1,550.32	6	1,794.38	6	2,038.44	6	2,282.51
1/4	97.09	1/4	341.14	1/4	585.03	1/4	823.23	1/4	1,067.29	1/4	1,311.35	1/4	1,555.41	1/4	1,799.47	1/4	2,043.53	1/4	2,287.59
1/2	102.18	1/2	346.22	1/2	589.96	1/2	828.31	1/2	1,072.37	1/2	1,316.43	1/2	1,560.49	1/2	1,804.55	1/2	2,048.61	1/2	2,292.67
3/4	107.26	3/4	351.31	3/4	594.89	3/4	833.39	3/4	1,077.46	3/4	1,321.52	3/4	1,565.58	3/4	1,809.64	3/4	2,053.70	3/4	2,297.76
7	112.35	7	356.39	7	599.82	7	838.48	7	1,082.54	7	1,326.60	7	1,570.66	7	1,814.72	7	2,058.78	7	2,302.84
1/4	117.43	1/4	361.48	1/4	604.75	1/4	843.56	1/4	1,087.62	1/4	1,331.69	1/4	1,575.75	1/4	1,819.81	1/4	2,063.87	1/4	2,307.93
1/2	122.52	1/2	366.56	1/2	609.68	1/2	848.65	1/2	1,092.71	1/2	1,336.77	1/2	1,580.83	1/2	1,824.89	1/2	2,068.95	1/2	2,313.01
3/4	127.60	3/4	371.65	3/4	614.61	3/4	853.73	3/4	1,097.79	3/4	1,341.85	3/4	1,585.92	3/4	1,829.98	3/4	2,074.04	3/4	2,318.10
8	132.68	8	376.73	8	619.54	8	858.82	8	1,102.88	8	1,346.94	8	1,591.00	8	1,835.06	8	2,079.12	8	2,323.18
1/4	137.77	1/4	381.81	1/4	624.48	1/4	863.90	1/4	1,107.96	1/4	1,352.02	1/4	1,596.08	1/4	1,840.15	1/4	2,084.21	1/4	2,328.27
1/2	142.85	1/2	386.90	1/2	629.41	1/2	868.99	1/2	1,113.05	1/2	1,357.11	1/2	1,601.17	1/2	1,845.23	1/2	2,089.29	1/2	2,333.35
3/4	147.94	3/4	391.98	3/4	634.34	3/4	874.07	3/4	1,118.13	3/4	1,362.19	3/4	1,606.25	3/4	1,850.31	3/4	2,094.38	3/4	2,338.44
9	153.02	9	397.07	9	639.28	9	879.16	9	1,123.22	9	1,367.28	9	1,611.34	9	1,855.40	9	2,099.46	9	2,343.52
1/4	158.11	1/4	402.15	1/4	644.21	1/4	884.24	1/4	1,128.30	1/4	1,372.36	1/4	1,616.42	1/4	1,860.48	1/4	2,104.54	1/4	2,348.61
1/2	163.19	1/2	407.24	1/2	649.15	1/2	889.33	1/2	1,133.39	1/2	1,377.45	1/2	1,621.51	1/2	1,865.57	1/2	2,109.63	1/2	2,353.69
3/4	168.27	3/4	412.32	3/4	654.08	3/4	894.41	3/4	1,138.47	3/4	1,382.53	3/4	1,626.59	3/4	1,870.65	3/4	2,114.71	3/4	2,358.77
10	173.36	10	417.41	10	659.02	10	899.49	10	1,143.56	10	1,387.62	10	1,631.68	10	1,875.74	10	2,119.80	10	2,363.86
1/4	178.44	1/4	422.49	1/4	663.95	1/4	904.58	1/4	1,148.64	1/4	1,392.70	1/4	1,636.76	1/4	1,880.82	1/4	2,124.88	1/4	2,368.94
1/2	183.53	1/2	427.57	1/2	668.89	1/2	909.66	1/2	1,153.72	1/2	1,397.79	1/2	1,641.85	1/2	1,885.91	1/2	2,129.97	1/2	2,374.03
3/4	188.61	3/4	432.66	3/4	673.82	3/4	914.75	3/4	1,158.81	3/4	1,402.87	3/4	1,646.93	3/4	1,890.99	3/4	2,135.05	3/4	2,379.11
11	193.70	11	437.74	11	678.76	11	919.83	11	1,163.89	11	1,407.95	11	1,652.02	11	1,896.08	11	2,140.14	11	2,384.20
1/4	198.78	1/4	442.83	1/4	683.69	1/4	924.92	1/4	1,168.98	1/4	1,413.04	1/4	1,657.10	1/4	1,901.16	1/4	2,145.22	1/4	2,389.28
1/2	203.86	1/2	447.91	1/2	688.63	1/2	930.00	1/2	1,174.06	1/2	1,418.12	1/2	1,662.18	1/2	1,906.25	1/2	2,150.31	1/2	2,394.37
3/4	208.95	3/4	453.00	3/4	693.56	3/4	935.09	3/4	1,179.15	3/4	1,423.21	3/4	1,667.27	3/4	1,911.33	3/4	2,155.39	3/4	2,399.45

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" HERMETIC VALVE
 GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 31'-06" FORWARD OF AFT BULKHEAD

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



BARGE "E2MS 109"

2 CENTER INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-03"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,404.54	0	2,648.60	0	2,892.66	0	3,136.72	0	3,380.78	0	3,623.73	0		0		0		0	
1/4	2,409.62	1/4	2,653.68	1/4	2,897.74	1/4	3,141.80	1/4	3,385.86	1/4	3,627.12	1/4		1/4		1/4		1/4	
1/2	2,414.71	1/2	2,658.77	1/2	2,902.83	1/2	3,146.89	1/2	3,390.95	1/2	3,630.51	1/2		1/2		1/2		1/2	
3/4	2,419.79	3/4	2,663.85	3/4	2,907.91	3/4	3,151.97	3/4	3,396.03	3/4	3,633.90	3/4		3/4		3/4		3/4	
1	2,424.87	1	2,668.94	1	2,913.00	1	3,157.06	1	3,401.12	1	3,637.29	1		1		1		1	
1/4	2,429.96	1/4	2,674.02	1/4	2,918.08	1/4	3,162.14	1/4	3,406.20	1/4	3,638.98	1/4		1/4		1/4		1/4	
1/2	2,435.04	1/2	2,679.10	1/2	2,923.17	1/2	3,167.23	1/2	3,411.29	1/2	3,640.68	1/2		1/2		1/2		1/2	
3/4	2,440.13	3/4	2,684.19	3/4	2,928.25	3/4	3,172.31	3/4	3,416.37	3/4	3,642.37	3/4		3/4		3/4		3/4	
2	2,445.21	2	2,689.27	2	2,933.33	2	3,177.40	2	3,421.46	2	3,644.07	2		2		2		2	
1/4	2,450.30	1/4	2,694.36	1/4	2,938.42	1/4	3,182.48	1/4	3,426.54	1/4	3,644.49	1/4		1/4		1/4		1/4	
1/2	2,455.38	1/2	2,699.44	1/2	2,943.50	1/2	3,187.56	1/2	3,431.63	1/2	3,644.92	1/2		1/2		1/2		1/2	
3/4	2,460.47	3/4	2,704.53	3/4	2,948.59	3/4	3,192.65	3/4	3,436.71	3/4		3/4		3/4		3/4		3/4	
3	2,465.55	3	2,709.61	3	2,953.67	3	3,197.73	3	3,441.79	3		3		3		3		3	
1/4	2,470.64	1/4	2,714.70	1/4	2,958.76	1/4	3,202.82	1/4	3,446.88	1/4		1/4		1/4		1/4		1/4	
1/2	2,475.72	1/2	2,719.78	1/2	2,963.84	1/2	3,207.90	1/2	3,451.96	1/2		1/2		1/2		1/2		1/2	
3/4	2,480.81	3/4	2,724.87	3/4	2,968.93	3/4	3,212.99	3/4	3,457.05	3/4		3/4		3/4		3/4		3/4	
4	2,485.89	4	2,729.95	4	2,974.01	4	3,218.07	4	3,462.13	4		4		4		4		4	
1/4	2,490.97	1/4	2,735.04	1/4	2,979.10	1/4	3,223.16	1/4	3,467.22	1/4		1/4		1/4		1/4		1/4	
1/2	2,496.06	1/2	2,740.12	1/2	2,984.18	1/2	3,228.24	1/2	3,472.30	1/2		1/2		1/2		1/2		1/2	
3/4	2,501.14	3/4	2,745.20	3/4	2,989.27	3/4	3,233.33	3/4	3,477.39	3/4		3/4		3/4		3/4		3/4	
5	2,506.23	5	2,750.29	5	2,994.35	5	3,238.41	5	3,482.47	5		5		5		5		5	
1/4	2,511.31	1/4	2,755.37	1/4	2,999.43	1/4	3,243.50	1/4	3,487.56	1/4		1/4		1/4		1/4		1/4	
1/2	2,516.40	1/2	2,760.46	1/2	3,004.52	1/2	3,248.58	1/2	3,492.64	1/2		1/2		1/2		1/2		1/2	
3/4	2,521.48	3/4	2,765.54	3/4	3,009.60	3/4	3,253.66	3/4	3,497.73	3/4		3/4		3/4		3/4		3/4	
6	2,526.57	6	2,770.63	6	3,014.69	6	3,258.75	6	3,502.81	6		6		6		6		6	
1/4	2,531.65	1/4	2,775.71	1/4	3,019.77	1/4	3,263.83	1/4	3,507.89	1/4		1/4		1/4		1/4		1/4	
1/2	2,536.74	1/2	2,780.80	1/2	3,024.86	1/2	3,268.92	1/2	3,512.98	1/2		1/2		1/2		1/2		1/2	
3/4	2,541.82	3/4	2,785.88	3/4	3,029.94	3/4	3,274.00	3/4	3,518.06	3/4		3/4		3/4		3/4		3/4	
7	2,546.91	7	2,790.97	7	3,035.03	7	3,279.09	7	3,523.15	7		7		7		7		7	
1/4	2,551.99	1/4	2,796.05	1/4	3,040.11	1/4	3,284.17	1/4	3,528.23	1/4		1/4		1/4		1/4		1/4	
1/2	2,557.07	1/2	2,801.14	1/2	3,045.20	1/2	3,289.26	1/2	3,533.32	1/2		1/2		1/2		1/2		1/2	
3/4	2,562.16	3/4	2,806.22	3/4	3,050.28	3/4	3,294.34	3/4	3,538.40	3/4		3/4		3/4		3/4		3/4	
8	2,567.24	8	2,811.30	8	3,055.37	8	3,299.43	8	3,543.49	8		8		8		8		8	
1/4	2,572.33	1/4	2,816.39	1/4	3,060.45	1/4	3,304.51	1/4	3,548.57	1/4		1/4		1/4		1/4		1/4	
1/2	2,577.41	1/2	2,821.47	1/2	3,065.53	1/2	3,309.60	1/2	3,553.66	1/2		1/2		1/2		1/2		1/2	
3/4	2,582.50	3/4	2,826.56	3/4	3,070.62	3/4	3,314.68	3/4	3,558.74	3/4		3/4		3/4		3/4		3/4	
9	2,587.58	9	2,831.64	9	3,075.70	9	3,319.76	9	3,563.83	9		9		9		9		9	
1/4	2,592.67	1/4	2,836.73	1/4	3,080.79	1/4	3,324.85	1/4	3,568.90	1/4		1/4		1/4		1/4		1/4	
1/2	2,597.75	1/2	2,841.81	1/2	3,085.87	1/2	3,329.93	1/2	3,573.97	1/2		1/2		1/2		1/2		1/2	
3/4	2,602.84	3/4	2,846.90	3/4	3,090.96	3/4	3,335.02	3/4	3,579.05	3/4		3/4		3/4		3/4		3/4	
10	2,607.92	10	2,851.98	10	3,096.04	10	3,340.10	10	3,584.12	10		10		10		10		10	
1/4	2,613.00	1/4	2,857.07	1/4	3,101.13	1/4	3,345.19	1/4	3,589.18	1/4		1/4		1/4		1/4		1/4	
1/2	2,618.09	1/2	2,862.15	1/2	3,106.21	1/2	3,350.27	1/2	3,594.24	1/2		1/2		1/2		1/2		1/2	
3/4	2,623.17	3/4	2,867.23	3/4	3,111.30	3/4	3,355.36	3/4	3,599.30	3/4		3/4		3/4		3/4		3/4	
11	2,628.26	11	2,872.32	11	3,116.38	11	3,360.44	11	3,604.36	11		11		11		11		11	
1/4	2,633.34	1/4	2,877.40	1/4	3,121.46	1/4	3,365.53	1/4	3,609.20	1/4		1/4		1/4		1/4		1/4	
1/2	2,638.43	1/2	2,882.49	1/2	3,126.55	1/2	3,370.61	1/2	3,614.05	1/2		1/2		1/2		1/2		1/2	
3/4	2,643.51	3/4	2,887.57	3/4	3,131.63	3/4	3,375.69	3/4	3,618.89	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/04/2020 JS
CALCULATED: 06/04/2020 CL
PRINTED: 06/04/2020 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2020

PRECISION MEASUREMENT
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BARGE "E2MS 109"

3 CENTER INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-03 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0.73	0	212.64	0	455.09	0	697.00	0	939.15	0	1,181.61	0	1,424.08	0	1,666.55	0	1,909.02	0	2,151.48
1/4	1.58	1/4	217.69	1/4	460.14	1/4	702.03	1/4	944.20	1/4	1,186.67	1/4	1,429.13	1/4	1,671.60	1/4	1,914.07	1/4	2,156.54
1/2	2.42	1/2	222.74	1/2	465.19	1/2	707.05	1/2	949.25	1/2	1,191.72	1/2	1,434.18	1/2	1,676.65	1/2	1,919.12	1/2	2,161.59
3/4	3.26	3/4	227.79	3/4	470.25	3/4	712.08	3/4	954.30	3/4	1,196.77	3/4	1,439.24	3/4	1,681.70	3/4	1,924.17	3/4	2,166.64
1	4.10	1	232.84	1	475.30	1	717.11	1	959.35	1	1,201.82	1	1,444.29	1	1,686.75	1	1,929.22	1	2,171.69
1/4	6.63	1/4	237.89	1/4	480.35	1/4	722.14	1/4	964.40	1/4	1,206.87	1/4	1,449.34	1/4	1,691.81	1/4	1,934.27	1/4	2,176.74
1/2	9.15	1/2	242.95	1/2	485.40	1/2	727.17	1/2	969.46	1/2	1,211.92	1/2	1,454.39	1/2	1,696.86	1/2	1,939.32	1/2	2,181.79
3/4	11.68	3/4	248.00	3/4	490.45	3/4	732.20	3/4	974.51	3/4	1,216.97	3/4	1,459.44	3/4	1,701.91	3/4	1,944.38	3/4	2,186.84
2	14.20	2	253.05	2	495.50	2	737.22	2	979.56	2	1,222.03	2	1,464.49	2	1,706.96	2	1,949.43	2	2,191.89
1/4	18.41	1/4	258.10	1/4	500.55	1/4	742.26	1/4	984.61	1/4	1,227.08	1/4	1,469.54	1/4	1,712.01	1/4	1,954.48	1/4	2,196.95
1/2	22.62	1/2	263.15	1/2	505.60	1/2	747.29	1/2	989.66	1/2	1,232.13	1/2	1,474.60	1/2	1,717.06	1/2	1,959.53	1/2	2,202.00
3/4	26.82	3/4	268.20	3/4	510.65	3/4	752.33	3/4	994.71	3/4	1,237.18	3/4	1,479.65	3/4	1,722.11	3/4	1,964.58	3/4	2,207.05
3	31.03	3	273.25	3	515.70	3	757.36	3	999.76	3	1,242.23	3	1,484.70	3	1,727.17	3	1,969.63	3	2,212.10
1/4	36.04	1/4	278.30	1/4	520.76	1/4	762.40	1/4	1,004.82	1/4	1,247.28	1/4	1,489.75	1/4	1,732.22	1/4	1,974.68	1/4	2,217.15
1/2	41.05	1/2	283.35	1/2	525.81	1/2	767.43	1/2	1,009.87	1/2	1,252.33	1/2	1,494.80	1/2	1,737.27	1/2	1,979.74	1/2	2,222.20
3/4	46.05	3/4	288.41	3/4	530.86	3/4	772.47	3/4	1,014.92	3/4	1,257.39	3/4	1,499.85	3/4	1,742.32	3/4	1,984.79	3/4	2,227.25
4	51.06	4	293.46	4	535.91	4	777.50	4	1,019.97	4	1,262.44	4	1,504.90	4	1,747.37	4	1,989.84	4	2,232.31
1/4	56.10	1/4	298.51	1/4	540.96	1/4	782.55	1/4	1,025.02	1/4	1,267.49	1/4	1,509.96	1/4	1,752.42	1/4	1,994.89	1/4	2,237.36
1/2	61.14	1/2	303.56	1/2	546.01	1/2	787.61	1/2	1,030.07	1/2	1,272.54	1/2	1,515.01	1/2	1,757.47	1/2	1,999.94	1/2	2,242.41
3/4	66.18	3/4	308.61	3/4	551.06	3/4	792.66	3/4	1,035.12	3/4	1,277.59	3/4	1,520.06	3/4	1,762.53	3/4	2,004.99	3/4	2,247.46
5	71.21	5	313.66	5	556.11	5	797.71	5	1,040.18	5	1,282.64	5	1,525.11	5	1,767.58	5	2,010.04	5	2,252.51
1/4	76.26	1/4	318.71	1/4	561.16	1/4	802.76	1/4	1,045.23	1/4	1,287.69	1/4	1,530.16	1/4	1,772.63	1/4	2,015.10	1/4	2,257.56
1/2	81.31	1/2	323.76	1/2	566.22	1/2	807.81	1/2	1,050.28	1/2	1,292.75	1/2	1,535.21	1/2	1,777.68	1/2	2,020.15	1/2	2,262.61
3/4	86.36	3/4	328.81	3/4	571.27	3/4	812.86	3/4	1,055.33	3/4	1,297.80	3/4	1,540.26	3/4	1,782.73	3/4	2,025.20	3/4	2,267.67
6	91.41	6	333.87	6	576.32	6	817.91	6	1,060.38	6	1,302.85	6	1,545.32	6	1,787.78	6	2,030.25	6	2,272.72
1/4	96.46	1/4	338.92	1/4	581.35	1/4	822.97	1/4	1,065.43	1/4	1,307.90	1/4	1,550.37	1/4	1,792.83	1/4	2,035.30	1/4	2,277.77
1/2	101.51	1/2	343.97	1/2	586.37	1/2	828.02	1/2	1,070.48	1/2	1,312.95	1/2	1,555.42	1/2	1,797.89	1/2	2,040.35	1/2	2,282.82
3/4	106.57	3/4	349.02	3/4	591.40	3/4	833.07	3/4	1,075.54	3/4	1,318.00	3/4	1,560.47	3/4	1,802.94	3/4	2,045.40	3/4	2,287.87
7	111.62	7	354.07	7	596.43	7	838.12	7	1,080.59	7	1,323.05	7	1,565.52	7	1,807.99	7	2,050.46	7	2,292.92
1/4	116.67	1/4	359.12	1/4	601.46	1/4	843.17	1/4	1,085.64	1/4	1,328.11	1/4	1,570.57	1/4	1,813.04	1/4	2,055.51	1/4	2,297.97
1/2	121.72	1/2	364.17	1/2	606.49	1/2	848.22	1/2	1,090.69	1/2	1,333.16	1/2	1,575.62	1/2	1,818.09	1/2	2,060.56	1/2	2,303.03
3/4	126.77	3/4	369.22	3/4	611.52	3/4	853.27	3/4	1,095.74	3/4	1,338.21	3/4	1,580.68	3/4	1,823.14	3/4	2,065.61	3/4	2,308.08
8	131.82	8	374.27	8	616.54	8	858.33	8	1,100.79	8	1,343.26	8	1,585.73	8	1,828.19	8	2,070.66	8	2,313.13
1/4	136.87	1/4	379.33	1/4	621.57	1/4	863.38	1/4	1,105.84	1/4	1,348.31	1/4	1,590.78	1/4	1,833.25	1/4	2,075.71	1/4	2,318.18
1/2	141.92	1/2	384.38	1/2	626.60	1/2	868.43	1/2	1,110.90	1/2	1,353.36	1/2	1,595.83	1/2	1,838.30	1/2	2,080.76	1/2	2,323.23
3/4	146.97	3/4	389.43	3/4	631.63	3/4	873.48	3/4	1,115.95	3/4	1,358.41	3/4	1,600.88	3/4	1,843.35	3/4	2,085.82	3/4	2,328.28
9	152.03	9	394.48	9	636.66	9	878.53	9	1,121.00	9	1,363.47	9	1,605.93	9	1,848.40	9	2,090.87	9	2,333.33
1/4	157.08	1/4	399.53	1/4	641.69	1/4	883.58	1/4	1,126.05	1/4	1,368.52	1/4	1,610.98	1/4	1,853.45	1/4	2,095.92	1/4	2,338.39
1/2	162.13	1/2	404.58	1/2	646.71	1/2	888.63	1/2	1,131.10	1/2	1,373.57	1/2	1,616.04	1/2	1,858.50	1/2	2,100.97	1/2	2,343.44
3/4	167.18	3/4	409.63	3/4	651.74	3/4	893.69	3/4	1,136.15	3/4	1,378.62	3/4	1,621.09	3/4	1,863.55	3/4	2,106.02	3/4	2,348.49
10	172.23	10	414.68	10	656.77	10	898.74	10	1,141.20	10	1,383.67	10	1,626.14	10	1,868.61	10	2,111.07	10	2,353.54
1/4	177.28	1/4	419.73	1/4	661.80	1/4	903.79	1/4	1,146.26	1/4	1,388.72	1/4	1,631.19	1/4	1,873.66	1/4	2,116.12	1/4	2,358.59
1/2	182.33	1/2	424.79	1/2	666.83	1/2	908.84	1/2	1,151.31	1/2	1,393.77	1/2	1,636.24	1/2	1,878.71	1/2	2,121.18	1/2	2,363.64
3/4	187.38	3/4	429.84	3/4	671.86	3/4	913.89	3/4	1,156.36	3/4	1,398.83	3/4	1,641.29	3/4	1,883.76	3/4	2,126.23	3/4	2,368.69
11	192.43	11	434.89	11	676.88	11	918.94	11	1,161.41	11	1,403.88	11	1,646.34	11	1,888.81	11	2,131.28	11	2,373.75
1/4	197.49	1/4	439.94	1/4	681.91	1/4	923.99	1/4	1,166.46	1/4	1,408.93	1/4	1,651.40	1/4	1,893.86	1/4	2,136.33	1/4	2,378.80
1/2	202.54	1/2	444.99	1/2	686.94	1/2	929.04	1/2	1,171.51	1/2	1,413.98	1/2	1,656.45	1/2	1,898.91	1/2	2,141.38	1/2	2,383.85
3/4	207.59	3/4	450.04	3/4	691.97	3/4	934.10	3/4	1,176.56	3/4	1,419.03	3/4	1,661.50	3/4	1,903.97	3/4	2,146.43	3/4	2,388.90

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" HERMETIC VALVE
 GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 24'-00" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "E2MS 109"

3 CENTER INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-03 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,393.95	0	2,636.42	0	2,878.89	0	3,121.35	0	3,363.82	0	3,605.18	0		0		0		0	
1/4	2,399.00	1/4	2,641.47	1/4	2,883.94	1/4	3,126.40	1/4	3,368.87	1/4	3,608.55	1/4		1/4		1/4		1/4	
1/2	2,404.05	1/2	2,646.52	1/2	2,888.99	1/2	3,131.46	1/2	3,373.92	1/2	3,611.91	1/2		1/2		1/2		1/2	
3/4	2,409.11	3/4	2,651.57	3/4	2,894.04	3/4	3,136.51	3/4	3,378.97	3/4	3,615.28	3/4		3/4		3/4		3/4	
1	2,414.16	1	2,656.62	1	2,899.09	1	3,141.56	1	3,384.03	1	3,618.65	1		1		1		1	
1/4	2,419.21	1/4	2,661.68	1/4	2,904.14	1/4	3,146.61	1/4	3,389.08	1/4	3,620.33	1/4		1/4		1/4		1/4	
1/2	2,424.26	1/2	2,666.73	1/2	2,909.19	1/2	3,151.66	1/2	3,394.13	1/2	3,622.02	1/2		1/2		1/2		1/2	
3/4	2,429.31	3/4	2,671.78	3/4	2,914.25	3/4	3,156.71	3/4	3,399.18	3/4	3,623.70	3/4		3/4		3/4		3/4	
2	2,434.36	2	2,676.83	2	2,919.30	2	3,161.76	2	3,404.23	2	3,625.38	2		2		2		2	
1/4	2,439.41	1/4	2,681.88	1/4	2,924.35	1/4	3,166.82	1/4	3,409.28	1/4	3,625.80	1/4		1/4		1/4		1/4	
1/2	2,444.46	1/2	2,686.93	1/2	2,929.40	1/2	3,171.87	1/2	3,414.33	1/2	3,626.23	1/2		1/2		1/2		1/2	
3/4	2,449.52	3/4	2,691.98	3/4	2,934.45	3/4	3,176.92	3/4	3,419.39	3/4		3/4		3/4		3/4		3/4	
3	2,454.57	3	2,697.03	3	2,939.50	3	3,181.97	3	3,424.44	3		3		3		3		3	
1/4	2,459.62	1/4	2,702.09	1/4	2,944.55	1/4	3,187.02	1/4	3,429.49	1/4		1/4		1/4		1/4		1/4	
1/2	2,464.67	1/2	2,707.14	1/2	2,949.60	1/2	3,192.07	1/2	3,434.54	1/2		1/2		1/2		1/2		1/2	
3/4	2,469.72	3/4	2,712.19	3/4	2,954.66	3/4	3,197.12	3/4	3,439.59	3/4		3/4		3/4		3/4		3/4	
4	2,474.77	4	2,717.24	4	2,959.71	4	3,202.17	4	3,444.64	4		4		4		4		4	
1/4	2,479.82	1/4	2,722.29	1/4	2,964.76	1/4	3,207.23	1/4	3,449.69	1/4		1/4		1/4		1/4		1/4	
1/2	2,484.88	1/2	2,727.34	1/2	2,969.81	1/2	3,212.28	1/2	3,454.74	1/2		1/2		1/2		1/2		1/2	
3/4	2,489.93	3/4	2,732.39	3/4	2,974.86	3/4	3,217.33	3/4	3,459.80	3/4		3/4		3/4		3/4		3/4	
5	2,494.98	5	2,737.45	5	2,979.91	5	3,222.38	5	3,464.85	5		5		5		5		5	
1/4	2,500.03	1/4	2,742.50	1/4	2,984.96	1/4	3,227.43	1/4	3,469.90	1/4		1/4		1/4		1/4		1/4	
1/2	2,505.08	1/2	2,747.55	1/2	2,990.02	1/2	3,232.48	1/2	3,474.95	1/2		1/2		1/2		1/2		1/2	
3/4	2,510.13	3/4	2,752.60	3/4	2,995.07	3/4	3,237.53	3/4	3,480.00	3/4		3/4		3/4		3/4		3/4	
6	2,515.18	6	2,757.65	6	3,000.12	6	3,242.59	6	3,485.05	6		6		6		6		6	
1/4	2,520.24	1/4	2,762.70	1/4	3,005.17	1/4	3,247.64	1/4	3,490.10	1/4		1/4		1/4		1/4		1/4	
1/2	2,525.29	1/2	2,767.75	1/2	3,010.22	1/2	3,252.69	1/2	3,495.16	1/2		1/2		1/2		1/2		1/2	
3/4	2,530.34	3/4	2,772.81	3/4	3,015.27	3/4	3,257.74	3/4	3,500.21	3/4		3/4		3/4		3/4		3/4	
7	2,535.39	7	2,777.86	7	3,020.32	7	3,262.79	7	3,505.26	7		7		7		7		7	
1/4	2,540.44	1/4	2,782.91	1/4	3,025.38	1/4	3,267.84	1/4	3,510.31	1/4		1/4		1/4		1/4		1/4	
1/2	2,545.49	1/2	2,787.96	1/2	3,030.43	1/2	3,272.89	1/2	3,515.36	1/2		1/2		1/2		1/2		1/2	
3/4	2,550.54	3/4	2,793.01	3/4	3,035.48	3/4	3,277.95	3/4	3,520.41	3/4		3/4		3/4		3/4		3/4	
8	2,555.60	8	2,798.06	8	3,040.53	8	3,283.00	8	3,525.46	8		8		8		8		8	
1/4	2,560.65	1/4	2,803.11	1/4	3,045.58	1/4	3,288.05	1/4	3,530.52	1/4		1/4		1/4		1/4		1/4	
1/2	2,565.70	1/2	2,808.17	1/2	3,050.63	1/2	3,293.10	1/2	3,535.57	1/2		1/2		1/2		1/2		1/2	
3/4	2,570.75	3/4	2,813.22	3/4	3,055.68	3/4	3,298.15	3/4	3,540.62	3/4		3/4		3/4		3/4		3/4	
9	2,575.80	9	2,818.27	9	3,060.74	9	3,303.20	9	3,545.67	9		9		9		9		9	
1/4	2,580.85	1/4	2,823.32	1/4	3,065.79	1/4	3,308.25	1/4	3,550.71	1/4		1/4		1/4		1/4		1/4	
1/2	2,585.90	1/2	2,828.37	1/2	3,070.84	1/2	3,313.31	1/2	3,555.75	1/2		1/2		1/2		1/2		1/2	
3/4	2,590.96	3/4	2,833.42	3/4	3,075.89	3/4	3,318.36	3/4	3,560.79	3/4		3/4		3/4		3/4		3/4	
10	2,596.01	10	2,838.47	10	3,080.94	10	3,323.41	10	3,565.83	10		10		10		10		10	
1/4	2,601.06	1/4	2,843.53	1/4	3,085.99	1/4	3,328.46	1/4	3,570.85	1/4		1/4		1/4		1/4		1/4	
1/2	2,606.11	1/2	2,848.58	1/2	3,091.04	1/2	3,333.51	1/2	3,575.88	1/2		1/2		1/2		1/2		1/2	
3/4	2,611.16	3/4	2,853.63	3/4	3,096.10	3/4	3,338.56	3/4	3,580.91	3/4		3/4		3/4		3/4		3/4	
11	2,616.21	11	2,858.68	11	3,101.15	11	3,343.61	11	3,585.94	11		11		11		11		11	
1/4	2,621.26	1/4	2,863.73	1/4	3,106.20	1/4	3,348.67	1/4	3,590.75	1/4		1/4		1/4		1/4		1/4	
1/2	2,626.32	1/2	2,868.78	1/2	3,111.25	1/2	3,353.72	1/2	3,595.56	1/2		1/2		1/2		1/2		1/2	
3/4	2,631.37	3/4	2,873.83	3/4	3,116.30	3/4	3,358.77	3/4	3,600.37	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/04/2020 JS
CALCULATED: 06/04/2020 CL
PRINTED: 06/04/2020 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2020

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



BARGE "E2MS 109"

FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 3'-11 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	85	0	213	0	328	0		0		0		0		0		0	
1/4	1	1/4	87	1/4	215	1/4	330	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1	1/2	90	1/2	218	1/2	332	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2	3/4	92	3/4	221	3/4	334	3/4		3/4		3/4		3/4		3/4		3/4	
1	2	1	95	1	223	1	336	1		1		1		1		1		1	
1/4	3	1/4	97	1/4	226	1/4	337	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4	1/2	100	1/2	229	1/2	339	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	5	3/4	102	3/4	231	3/4	341	3/4		3/4		3/4		3/4		3/4		3/4	
2	6	2	105	2	234	2	342	2		2		2		2		2		2	
1/4	8	1/4	108	1/4	237	1/4	344	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	9	1/2	110	1/2	239	1/2	345	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	10	3/4	113	3/4	242	3/4	347	3/4		3/4		3/4		3/4		3/4		3/4	
3	11	3	115	3	244	3	348	3		3		3		3		3		3	
1/4	13	1/4	118	1/4	247	1/4	350	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	14	1/2	121	1/2	250	1/2	351	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	16	3/4	123	3/4	252	3/4	352	3/4		3/4		3/4		3/4		3/4		3/4	
4	17	4	126	4	255	4	354	4		4		4		4		4		4	
1/4	19	1/4	129	1/4	257	1/4	355	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	21	1/2	131	1/2	260	1/2	356	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	22	3/4	134	3/4	262	3/4	357	3/4		3/4		3/4		3/4		3/4		3/4	
5	24	5	137	5	265	5	358	5		5		5		5		5		5	
1/4	26	1/4	139	1/4	268	1/4	358	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	28	1/2	142	1/2	270	1/2	359	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	30	3/4	145	3/4	273	3/4	359	3/4		3/4		3/4		3/4		3/4		3/4	
6	32	6	147	6	275	6	360	6		6		6		6		6		6	
1/4	34	1/4	150	1/4	277	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	35	1/2	153	1/2	280	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	37	3/4	155	3/4	282	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7	39	7	158	7	285	7		7		7		7		7		7		7	
1/4	42	1/4	161	1/4	287	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	44	1/2	164	1/2	289	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	46	3/4	166	3/4	292	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8	48	8	169	8	294	8		8		8		8		8		8		8	
1/4	50	1/4	172	1/4	296	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	52	1/2	174	1/2	299	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	54	3/4	177	3/4	301	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	57	9	180	9	303	9		9		9		9		9		9		9	
1/4	59	1/4	183	1/4	306	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	61	1/2	185	1/2	308	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	63	3/4	188	3/4	310	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	66	10	191	10	312	10		10		10		10		10		10		10	
1/4	68	1/4	194	1/4	314	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	70	1/2	196	1/2	316	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	73	3/4	199	3/4	318	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	75	11	202	11	320	11		11		11		11		11		11		11	
1/4	78	1/4	204	1/4	322	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	80	1/2	207	1/2	324	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	82	3/4	210	3/4	326	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK AT GAUGE POINT
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN AT 2" DIAMETER STANDPIPE

STRAPPED: 06/04/2020 JS
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CANCELS AND SUPERCEDES
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BARGE "E2MS 109"

ULLAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 CENTER	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
2 CENTER	00-3/8	- 00-3/8	00-3/4	- 00-3/4	01-1/8	- 01-1/8	01-3/8	- 01-3/8	01-3/4	- 01-3/4	02-1/8	- 02-1/8
3 CENTER	- 00-1/8	00-1/8	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-5/8	00-5/8	- 00-7/8	00-7/8	- 01-0/8	01-0/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 168'-00"

June 4, 2020

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

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BARGE "E2MS 109"

1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-03"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	3,900.37	0	3,654.13	0	3,407.89	0	3,161.65	0	2,903.62	0	2,616.60	0	2,329.40	0	2,042.21	0	2,042.21
1/4	1/4	1/4	3,895.24	1/4	3,649.00	1/4	3,402.76	1/4	3,156.52	1/4	2,897.65	1/4	2,610.61	1/4	2,323.42	1/4	2,036.23	1/4	2,036.23
1/2	1/2	1/2	4,110.47	1/2	3,890.11	1/2	3,643.87	1/2	3,397.63	1/2	3,151.39	1/2	2,891.67	1/2	2,604.63	1/2	2,317.44	1/2	2,030.24
3/4	3/4	3/4	4,109.97	3/4	3,884.98	3/4	3,638.74	3/4	3,392.50	3/4	3,146.26	3/4	2,885.70	3/4	2,598.65	3/4	2,311.45	3/4	2,024.26
1	1	1	4,109.48	1	3,879.85	1	3,633.61	1	3,387.37	1	3,141.13	1	2,879.72	1	2,592.66	1	2,305.47	1	2,018.28
1/4	1/4	1/4	4,107.48	1/4	3,874.72	1/4	3,628.48	1/4	3,382.24	1/4	3,136.00	1/4	2,873.75	1/4	2,586.68	1/4	2,299.49	1/4	2,012.29
1/2	1/2	1/2	4,105.48	1/2	3,869.59	1/2	3,623.35	1/2	3,377.11	1/2	3,130.87	1/2	2,867.77	1/2	2,580.70	1/2	2,293.50	1/2	2,006.31
3/4	3/4	3/4	4,103.48	3/4	3,864.46	3/4	3,618.22	3/4	3,371.98	3/4	3,125.74	3/4	2,861.80	3/4	2,574.71	3/4	2,287.52	3/4	2,000.33
2	2	2	4,101.49	2	3,859.33	2	3,613.09	2	3,366.85	2	3,120.61	2	2,855.82	2	2,568.73	2	2,281.54	2	1,994.34
1/4	1/4	1/4	4,097.49	1/4	3,854.20	1/4	3,607.96	1/4	3,361.72	1/4	3,115.48	1/4	2,849.85	1/4	2,562.75	1/4	2,275.55	1/4	1,988.36
1/2	1/2	1/2	4,093.49	1/2	3,849.07	1/2	3,602.83	1/2	3,356.59	1/2	3,110.35	1/2	2,843.87	1/2	2,556.76	1/2	2,269.57	1/2	1,982.38
3/4	3/4	3/4	4,089.50	3/4	3,843.94	3/4	3,597.70	3/4	3,351.46	3/4	3,105.22	3/4	2,837.90	3/4	2,550.78	3/4	2,263.59	3/4	1,976.39
3	3	3	4,085.50	3	3,838.81	3	3,592.57	3	3,346.33	3	3,100.09	3	2,831.92	3	2,544.80	3	2,257.60	3	1,970.41
1/4	1/4	1/4	4,080.23	1/4	3,833.68	1/4	3,587.44	1/4	3,341.20	1/4	3,094.96	1/4	2,825.95	1/4	2,538.81	1/4	2,251.62	1/4	1,964.45
1/2	1/2	1/2	4,074.95	1/2	3,828.55	1/2	3,582.31	1/2	3,336.07	1/2	3,089.83	1/2	2,819.97	1/2	2,532.83	1/2	2,245.64	1/2	1,958.49
3/4	3/4	3/4	4,069.67	3/4	3,823.42	3/4	3,577.18	3/4	3,330.94	3/4	3,084.70	3/4	2,814.00	3/4	2,526.85	3/4	2,239.65	3/4	1,952.53
4	4	4	4,064.40	4	3,818.29	4	3,572.05	4	3,325.81	4	3,079.57	4	2,808.02	4	2,520.86	4	2,233.67	4	1,946.58
1/4	1/4	1/4	4,059.29	1/4	3,813.16	1/4	3,566.92	1/4	3,320.68	1/4	3,074.44	1/4	2,802.05	1/4	2,514.88	1/4	2,227.69	1/4	1,940.62
1/2	1/2	1/2	4,054.19	1/2	3,808.03	1/2	3,561.79	1/2	3,315.55	1/2	3,069.31	1/2	2,796.07	1/2	2,508.90	1/2	2,221.70	1/2	1,934.66
3/4	3/4	3/4	4,049.09	3/4	3,802.90	3/4	3,556.66	3/4	3,310.42	3/4	3,064.18	3/4	2,790.10	3/4	2,502.91	3/4	2,215.72	3/4	1,928.70
5	5	5	4,043.99	5	3,797.77	5	3,551.53	5	3,305.29	5	3,059.05	5	2,784.13	5	2,496.93	5	2,209.74	5	1,922.74
1/4	1/4	1/4	4,038.86	1/4	3,792.64	1/4	3,546.40	1/4	3,300.16	1/4	3,053.92	1/4	2,778.14	1/4	2,490.95	1/4	2,203.75	1/4	1,916.79
1/2	1/2	1/2	4,033.74	1/2	3,787.51	1/2	3,541.27	1/2	3,295.03	1/2	3,048.79	1/2	2,772.16	1/2	2,484.97	1/2	2,197.77	1/2	1,910.83
3/4	3/4	3/4	4,028.61	3/4	3,782.38	3/4	3,536.14	3/4	3,289.90	3/4	3,043.66	3/4	2,766.18	3/4	2,478.98	3/4	2,191.79	3/4	1,904.87
6	6	6	4,023.49	6	3,777.25	6	3,531.01	6	3,284.77	6	3,038.53	6	2,760.19	6	2,473.00	6	2,185.81	6	1,898.91
1/4	1/4	1/4	4,018.36	1/4	3,772.12	1/4	3,525.88	1/4	3,279.64	1/4	3,033.40	1/4	2,754.21	1/4	2,467.02	1/4	2,179.82	1/4	1,892.95
1/2	1/2	1/2	4,013.23	1/2	3,766.99	1/2	3,520.75	1/2	3,274.51	1/2	3,028.27	1/2	2,748.23	1/2	2,461.03	1/2	2,173.84	1/2	1,886.99
3/4	3/4	3/4	4,008.10	3/4	3,761.86	3/4	3,515.62	3/4	3,269.38	3/4	3,023.14	3/4	2,742.24	3/4	2,455.05	3/4	2,167.86	3/4	1,881.04
7	7	7	4,002.97	7	3,756.73	7	3,510.49	7	3,264.25	7	3,018.01	7	2,736.26	7	2,449.07	7	2,161.87	7	1,875.08
1/4	1/4	1/4	3,997.84	1/4	3,751.60	1/4	3,505.36	1/4	3,259.12	1/4	3,012.88	1/4	2,730.28	1/4	2,443.08	1/4	2,155.89	1/4	1,869.12
1/2	1/2	1/2	3,992.71	1/2	3,746.47	1/2	3,500.23	1/2	3,253.99	1/2	3,007.75	1/2	2,724.29	1/2	2,437.10	1/2	2,149.91	1/2	1,863.16
3/4	3/4	3/4	3,987.58	3/4	3,741.34	3/4	3,495.10	3/4	3,248.86	3/4	3,002.62	3/4	2,718.31	3/4	2,431.12	3/4	2,143.92	3/4	1,857.20
8	8	8	3,982.45	8	3,736.21	8	3,489.97	8	3,243.73	8	2,997.49	8	2,712.33	8	2,425.13	8	2,137.94	8	1,851.24
1/4	1/4	1/4	3,977.32	1/4	3,731.08	1/4	3,484.84	1/4	3,238.60	1/4	2,991.95	1/4	2,706.34	1/4	2,419.15	1/4	2,131.96	1/4	1,845.29
1/2	1/2	1/2	3,972.19	1/2	3,725.95	1/2	3,479.71	1/2	3,233.47	1/2	2,986.40	1/2	2,700.36	1/2	2,413.17	1/2	2,125.97	1/2	1,839.33
3/4	3/4	3/4	3,967.06	3/4	3,720.82	3/4	3,474.58	3/4	3,228.34	3/4	2,980.86	3/4	2,694.38	3/4	2,407.18	3/4	2,119.99	3/4	1,833.37
9	9	9	3,961.93	9	3,715.69	9	3,469.45	9	3,223.21	9	2,975.32	9	2,688.39	9	2,401.20	9	2,114.01	9	1,827.41
1/4	1/4	1/4	3,956.80	1/4	3,710.56	1/4	3,464.32	1/4	3,218.08	1/4	2,969.34	1/4	2,682.41	1/4	2,395.22	1/4	2,108.02	1/4	1,821.45
1/2	1/2	1/2	3,951.67	1/2	3,705.43	1/2	3,459.19	1/2	3,212.95	1/2	2,963.37	1/2	2,676.43	1/2	2,389.23	1/2	2,102.04	1/2	1,815.49
3/4	3/4	3/4	3,946.54	3/4	3,700.30	3/4	3,454.06	3/4	3,207.82	3/4	2,957.39	3/4	2,670.44	3/4	2,383.25	3/4	2,096.06	3/4	1,809.54
10	10	10	3,941.41	10	3,695.17	10	3,448.93	10	3,202.69	10	2,951.42	10	2,664.46	10	2,377.27	10	2,090.07	10	1,803.58
1/4	1/4	1/4	3,936.28	1/4	3,690.04	1/4	3,443.80	1/4	3,197.56	1/4	2,945.44	1/4	2,658.48	1/4	2,371.28	1/4	2,084.09	1/4	1,797.62
1/2	1/2	1/2	3,931.15	1/2	3,684.91	1/2	3,438.67	1/2	3,192.43	1/2	2,939.47	1/2	2,652.49	1/2	2,365.30	1/2	2,078.11	1/2	1,791.66
3/4	3/4	3/4	3,926.02	3/4	3,679.78	3/4	3,433.54	3/4	3,187.30	3/4	2,933.50	3/4	2,646.51	3/4	2,359.32	3/4	2,072.12	3/4	1,785.70
11	11	11	3,920.89	11	3,674.65	11	3,428.41	11	3,182.17	11	2,927.52	11	2,640.53	11	2,353.33	11	2,066.14	11	1,779.74
1/4	1/4	1/4	3,915.76	1/4	3,669.52	1/4	3,423.28	1/4	3,177.04	1/4	2,921.55	1/4	2,634.55	1/4	2,347.35	1/4	2,060.16	1/4	1,773.79
1/2	1/2	1/2	3,910.63	1/2	3,664.39	1/2	3,418.15	1/2	3,171.91	1/2	2,915.57	1/2	2,628.56	1/2	2,341.37	1/2	2,054.17	1/2	1,767.83
3/4	3/4	3/4	3,905.50	3/4	3,659.26	3/4	3,413.02	3/4	3,166.78	3/4	2,909.60	3/4	2,622.58	3/4	2,335.39	3/4	2,048.19	3/4	1,761.87

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" HERMETIC VALVE
 GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 31'-06" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "E2MS 109"

1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-03"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,755.91	0	1,468.92	0	1,181.84	0	895.57	0	615.28	0	327.81	0	40.26	0		0		0	
1/4	1,749.95	1/4	1,462.94	1/4	1,175.86	1/4	889.79	1/4	609.30	1/4	321.81	1/4	35.27	1/4		1/4		1/4	
1/2	1,743.99	1/2	1,456.96	1/2	1,169.88	1/2	884.01	1/2	603.31	1/2	315.81	1/2	30.27	1/2		1/2		1/2	
3/4	1,738.04	3/4	1,450.98	3/4	1,163.90	3/4	878.23	3/4	597.33	3/4	309.82	3/4	25.28	3/4		3/4		3/4	
1	1,732.08	1	1,445.00	1	1,157.92	1	872.45	1	591.34	1	303.82	1	20.28	1		1		1	
1/4	1,726.10	1/4	1,439.02	1/4	1,151.94	1/4	866.67	1/4	585.36	1/4	297.83	1/4	17.29	1/4		1/4		1/4	
1/2	1,720.12	1/2	1,433.04	1/2	1,145.96	1/2	860.89	1/2	579.37	1/2	291.83	1/2	14.29	1/2		1/2		1/2	
3/4	1,714.14	3/4	1,427.06	3/4	1,139.98	3/4	855.11	3/4	573.39	3/4	285.83	3/4	11.29	3/4		3/4		3/4	
2	1,708.15	2	1,421.08	2	1,134.00	2	849.33	2	567.41	2	279.84	2	8.29	2		2		2	
1/4	1,702.17	1/4	1,415.10	1/4	1,128.02	1/4	843.55	1/4	561.42	1/4	273.84	1/4	7.29	1/4		1/4		1/4	
1/2	1,696.19	1/2	1,409.11	1/2	1,122.04	1/2	837.77	1/2	555.44	1/2	267.84	1/2	6.29	1/2		1/2		1/2	
3/4	1,690.21	3/4	1,403.13	3/4	1,116.06	3/4	831.99	3/4	549.45	3/4	261.85	3/4	5.29	3/4		3/4		3/4	
3	1,684.23	3	1,397.15	3	1,110.07	3	826.21	3	543.47	3	255.85	3	4.29	3		3		3	
1/4	1,678.25	1/4	1,391.17	1/4	1,104.09	1/4	820.43	1/4	537.48	1/4	249.86	1/4		1/4		1/4		1/4	
1/2	1,672.27	1/2	1,385.19	1/2	1,098.11	1/2	814.65	1/2	531.50	1/2	243.86	1/2		1/2		1/2		1/2	
3/4	1,666.29	3/4	1,379.21	3/4	1,092.13	3/4	808.87	3/4	525.51	3/4	237.86	3/4		3/4		3/4		3/4	
4	1,660.31	4	1,373.23	4	1,086.15	4	803.10	4	519.53	4	231.87	4		4		4		4	
1/4	1,654.33	1/4	1,367.25	1/4	1,080.17	1/4	797.32	1/4	513.54	1/4	225.87	1/4		1/4		1/4		1/4	
1/2	1,648.35	1/2	1,361.27	1/2	1,074.19	1/2	791.54	1/2	507.56	1/2	219.87	1/2		1/2		1/2		1/2	
3/4	1,642.37	3/4	1,355.29	3/4	1,068.21	3/4	785.76	3/4	501.58	3/4	213.88	3/4		3/4		3/4		3/4	
5	1,636.39	5	1,349.31	5	1,062.23	5	779.98	5	495.59	5	207.88	5		5		5		5	
1/4	1,630.40	1/4	1,343.33	1/4	1,056.25	1/4	774.20	1/4	489.61	1/4	201.89	1/4		1/4		1/4		1/4	
1/2	1,624.42	1/2	1,337.35	1/2	1,050.27	1/2	768.42	1/2	483.62	1/2	195.89	1/2		1/2		1/2		1/2	
3/4	1,618.44	3/4	1,331.36	3/4	1,044.29	3/4	762.64	3/4	477.64	3/4	189.89	3/4		3/4		3/4		3/4	
6	1,612.46	6	1,325.38	6	1,038.31	6	756.86	6	471.65	6	183.90	6		6		6		6	
1/4	1,606.48	1/4	1,319.40	1/4	1,032.32	1/4	751.08	1/4	465.67	1/4	177.90	1/4		1/4		1/4		1/4	
1/2	1,600.50	1/2	1,313.42	1/2	1,026.34	1/2	745.30	1/2	459.68	1/2	171.90	1/2		1/2		1/2		1/2	
3/4	1,594.52	3/4	1,307.44	3/4	1,020.36	3/4	739.52	3/4	453.70	3/4	165.91	3/4		3/4		3/4		3/4	
7	1,588.54	7	1,301.46	7	1,014.38	7	733.74	7	447.72	7	159.91	7		7		7		7	
1/4	1,582.56	1/4	1,295.48	1/4	1,008.40	1/4	727.91	1/4	441.72	1/4	153.91	1/4		1/4		1/4		1/4	
1/2	1,576.58	1/2	1,289.50	1/2	1,002.42	1/2	722.08	1/2	435.72	1/2	147.92	1/2		1/2		1/2		1/2	
3/4	1,570.60	3/4	1,283.52	3/4	996.44	3/4	716.25	3/4	429.73	3/4	141.92	3/4		3/4		3/4		3/4	
8	1,564.62	8	1,277.54	8	990.46	8	710.42	8	423.73	8	135.93	8		8		8		8	
1/4	1,558.63	1/4	1,271.56	1/4	984.48	1/4	704.59	1/4	417.73	1/4	129.93	1/4		1/4		1/4		1/4	
1/2	1,552.65	1/2	1,265.58	1/2	978.50	1/2	698.76	1/2	411.74	1/2	123.93	1/2		1/2		1/2		1/2	
3/4	1,546.67	3/4	1,259.59	3/4	972.52	3/4	692.93	3/4	405.74	3/4	117.94	3/4		3/4		3/4		3/4	
9	1,540.69	9	1,253.61	9	966.54	9	687.10	9	399.75	9	111.94	9		9		9		9	
1/4	1,534.71	1/4	1,247.63	1/4	960.55	1/4	681.11	1/4	393.75	1/4	105.95	1/4		1/4		1/4		1/4	
1/2	1,528.73	1/2	1,241.65	1/2	954.57	1/2	675.13	1/2	387.75	1/2	99.95	1/2		1/2		1/2		1/2	
3/4	1,522.75	3/4	1,235.67	3/4	948.59	3/4	669.14	3/4	381.76	3/4	93.96	3/4		3/4		3/4		3/4	
10	1,516.77	10	1,229.69	10	942.61	10	663.16	10	375.76	10	87.96	10		10		10		10	
1/4	1,510.79	1/4	1,223.71	1/4	936.63	1/4	657.17	1/4	369.77	1/4	81.98	1/4		1/4		1/4		1/4	
1/2	1,504.81	1/2	1,217.73	1/2	930.65	1/2	651.19	1/2	363.77	1/2	76.00	1/2		1/2		1/2		1/2	
3/4	1,498.83	3/4	1,211.75	3/4	924.67	3/4	645.20	3/4	357.78	3/4	70.02	3/4		3/4		3/4		3/4	
11	1,492.85	11	1,205.77	11	918.69	11	639.22	11	351.78	11	64.04	11		11		11		11	
1/4	1,486.87	1/4	1,199.79	1/4	912.91	1/4	633.23	1/4	345.79	1/4	58.09	1/4		1/4		1/4		1/4	
1/2	1,480.88	1/2	1,193.81	1/2	907.13	1/2	627.25	1/2	339.80	1/2	52.15	1/2		1/2		1/2		1/2	
3/4	1,474.90	3/4	1,187.83	3/4	901.35	3/4	621.27	3/4	333.80	3/4	46.21	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/04/2020 JS
CALCULATED: 06/04/2020 CL
PRINTED: 06/04/2020 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2020

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "E2MS 109"

2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-03"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	3,441.79	0	3,197.73	0	2,953.67	0	2,709.61	0	2,465.55	0	2,221.49	0	1,977.43	0	1,733.37	0	1,733.37
1/4	1/4	1/4	3,436.71	1/4	3,192.65	1/4	2,948.59	1/4	2,704.53	1/4	2,460.47	1/4	2,216.41	1/4	1,972.35	1/4	1,728.28	1/4	1,728.28
1/2	1/2	1/2	3,644.92	1/2	3,431.63	1/2	3,187.56	1/2	2,943.50	1/2	2,699.44	1/2	2,455.38	1/2	2,211.32	1/2	1,967.26	1/2	1,723.20
3/4	3/4	3/4	3,644.49	3/4	3,426.54	3/4	3,182.48	3/4	2,938.42	3/4	2,694.36	3/4	2,450.30	3/4	2,206.24	3/4	1,962.18	3/4	1,718.12
1	1	1	3,644.07	1	3,421.46	1	3,177.40	1	2,933.33	1	2,689.27	1	2,445.21	1	2,201.15	1	1,957.09	1	1,713.03
1/4	1/4	1/4	3,642.37	1/4	3,416.37	1/4	3,172.31	1/4	2,928.25	1/4	2,684.19	1/4	2,440.13	1/4	2,196.07	1/4	1,952.01	1/4	1,707.95
1/2	1/2	1/2	3,640.68	1/2	3,411.29	1/2	3,167.23	1/2	2,923.17	1/2	2,679.10	1/2	2,435.04	1/2	2,190.98	1/2	1,946.92	1/2	1,702.86
3/4	3/4	3/4	3,638.98	3/4	3,406.20	3/4	3,162.14	3/4	2,918.08	3/4	2,674.02	3/4	2,429.96	3/4	2,185.90	3/4	1,941.84	3/4	1,697.78
2	2	2	3,637.29	2	3,401.12	2	3,157.06	2	2,913.00	2	2,668.94	2	2,424.87	2	2,180.81	2	1,936.75	2	1,692.69
1/4	1/4	1/4	3,633.90	1/4	3,396.03	1/4	3,151.97	1/4	2,907.91	1/4	2,663.85	1/4	2,419.79	1/4	2,175.73	1/4	1,931.67	1/4	1,687.61
1/2	1/2	1/2	3,630.51	1/2	3,390.95	1/2	3,146.89	1/2	2,902.83	1/2	2,658.77	1/2	2,414.71	1/2	2,170.64	1/2	1,926.58	1/2	1,682.52
3/4	3/4	3/4	3,627.12	3/4	3,385.86	3/4	3,141.80	3/4	2,897.74	3/4	2,653.68	3/4	2,409.62	3/4	2,165.56	3/4	1,921.50	3/4	1,677.44
3	3	3	3,623.73	3	3,380.78	3	3,136.72	3	2,892.66	3	2,648.60	3	2,404.54	3	2,160.48	3	1,916.41	3	1,672.35
1/4	1/4	1/4	3,618.89	1/4	3,375.69	1/4	3,131.63	1/4	2,887.57	1/4	2,643.51	1/4	2,399.45	1/4	2,155.39	1/4	1,911.33	1/4	1,667.27
1/2	1/2	1/2	3,614.05	1/2	3,370.61	1/2	3,126.55	1/2	2,882.49	1/2	2,638.43	1/2	2,394.37	1/2	2,150.31	1/2	1,906.25	1/2	1,662.18
3/4	3/4	3/4	3,609.20	3/4	3,365.53	3/4	3,121.46	3/4	2,877.40	3/4	2,633.34	3/4	2,389.28	3/4	2,145.22	3/4	1,901.16	3/4	1,657.10
4	4	4	3,604.36	4	3,360.44	4	3,116.38	4	2,872.32	4	2,628.26	4	2,384.20	4	2,140.14	4	1,896.08	4	1,652.02
1/4	1/4	1/4	3,599.30	1/4	3,355.36	1/4	3,111.30	1/4	2,867.23	1/4	2,623.17	1/4	2,379.11	1/4	2,135.05	1/4	1,890.99	1/4	1,646.93
1/2	1/2	1/2	3,594.24	1/2	3,350.27	1/2	3,106.21	1/2	2,862.15	1/2	2,618.09	1/2	2,374.03	1/2	2,129.97	1/2	1,885.91	1/2	1,641.85
3/4	3/4	3/4	3,589.18	3/4	3,345.19	3/4	3,101.13	3/4	2,857.07	3/4	2,613.00	3/4	2,368.94	3/4	2,124.88	3/4	1,880.82	3/4	1,636.76
5	5	5	3,584.12	5	3,340.10	5	3,096.04	5	2,851.98	5	2,607.92	5	2,363.86	5	2,119.80	5	1,875.74	5	1,631.68
1/4	1/4	1/4	3,579.05	1/4	3,335.02	1/4	3,090.96	1/4	2,846.90	1/4	2,602.84	1/4	2,358.77	1/4	2,114.71	1/4	1,870.65	1/4	1,626.59
1/2	1/2	1/2	3,573.97	1/2	3,329.93	1/2	3,085.87	1/2	2,841.81	1/2	2,597.75	1/2	2,353.69	1/2	2,109.63	1/2	1,865.57	1/2	1,621.51
3/4	3/4	3/4	3,568.90	3/4	3,324.85	3/4	3,080.79	3/4	2,836.73	3/4	2,592.67	3/4	2,348.61	3/4	2,104.54	3/4	1,860.48	3/4	1,616.42
6	6	6	3,563.83	6	3,319.76	6	3,075.70	6	2,831.64	6	2,587.58	6	2,343.52	6	2,099.46	6	1,855.40	6	1,611.34
1/4	1/4	1/4	3,558.74	1/4	3,314.68	1/4	3,070.62	1/4	2,826.56	1/4	2,582.50	1/4	2,338.44	1/4	2,094.38	1/4	1,850.31	1/4	1,606.25
1/2	1/2	1/2	3,553.66	1/2	3,309.59	1/2	3,065.53	1/2	2,821.47	1/2	2,577.41	1/2	2,333.35	1/2	2,089.29	1/2	1,845.23	1/2	1,601.17
3/4	3/4	3/4	3,548.57	3/4	3,304.51	3/4	3,060.45	3/4	2,816.39	3/4	2,572.33	3/4	2,328.27	3/4	2,084.21	3/4	1,840.15	3/4	1,596.08
7	7	7	3,543.49	7	3,299.43	7	3,055.36	7	2,811.30	7	2,567.24	7	2,323.18	7	2,079.12	7	1,835.06	7	1,591.00
1/4	1/4	1/4	3,538.40	1/4	3,294.34	1/4	3,050.28	1/4	2,806.22	1/4	2,562.16	1/4	2,318.10	1/4	2,074.04	1/4	1,829.98	1/4	1,585.92
1/2	1/2	1/2	3,533.32	1/2	3,289.26	1/2	3,045.20	1/2	2,801.13	1/2	2,557.07	1/2	2,313.01	1/2	2,068.95	1/2	1,824.89	1/2	1,580.83
3/4	3/4	3/4	3,528.23	3/4	3,284.17	3/4	3,040.11	3/4	2,796.05	3/4	2,551.99	3/4	2,307.93	3/4	2,063.87	3/4	1,819.81	3/4	1,575.75
8	8	8	3,523.15	8	3,279.09	8	3,035.03	8	2,790.97	8	2,546.90	8	2,302.84	8	2,058.78	8	1,814.72	8	1,570.66
1/4	1/4	1/4	3,518.06	1/4	3,274.00	1/4	3,029.94	1/4	2,785.88	1/4	2,541.82	1/4	2,297.76	1/4	2,053.70	1/4	1,809.64	1/4	1,565.58
1/2	1/2	1/2	3,512.98	1/2	3,268.92	1/2	3,024.86	1/2	2,780.80	1/2	2,536.74	1/2	2,292.67	1/2	2,048.61	1/2	1,804.55	1/2	1,560.49
3/4	3/4	3/4	3,507.89	3/4	3,263.83	3/4	3,019.77	3/4	2,775.71	3/4	2,531.65	3/4	2,287.59	3/4	2,043.53	3/4	1,799.47	3/4	1,555.41
9	9	9	3,502.81	9	3,258.75	9	3,014.69	9	2,770.63	9	2,526.57	9	2,282.51	9	2,038.44	9	1,794.38	9	1,550.32
1/4	1/4	1/4	3,497.73	1/4	3,253.66	1/4	3,009.60	1/4	2,765.54	1/4	2,521.48	1/4	2,277.42	1/4	2,033.36	1/4	1,789.30	1/4	1,545.24
1/2	1/2	1/2	3,492.64	1/2	3,248.58	1/2	3,004.52	1/2	2,760.46	1/2	2,516.40	1/2	2,272.34	1/2	2,028.28	1/2	1,784.21	1/2	1,540.15
3/4	3/4	3/4	3,487.56	3/4	3,243.50	3/4	2,999.43	3/4	2,755.37	3/4	2,511.31	3/4	2,267.25	3/4	2,023.19	3/4	1,779.13	3/4	1,535.07
10	10	10	3,482.47	10	3,238.41	10	2,994.35	10	2,750.29	10	2,506.23	10	2,262.17	10	2,018.11	10	1,774.05	10	1,529.98
1/4	1/4	1/4	3,477.39	1/4	3,233.33	1/4	2,989.27	1/4	2,745.20	1/4	2,501.14	1/4	2,257.08	1/4	2,013.02	1/4	1,768.96	1/4	1,524.90
1/2	1/2	1/2	3,472.30	1/2	3,228.24	1/2	2,984.18	1/2	2,740.12	1/2	2,496.06	1/2	2,252.00	1/2	2,007.94	1/2	1,763.88	1/2	1,519.82
3/4	3/4	3/4	3,467.22	3/4	3,223.16	3/4	2,979.10	3/4	2,735.04	3/4	2,490.97	3/4	2,246.91	3/4	2,002.85	3/4	1,758.79	3/4	1,514.73
11	11	11	3,462.13	11	3,218.07	11	2,974.01	11	2,729.95	11	2,485.89	11	2,241.83	11	1,997.77	11	1,753.71	11	1,509.65
1/4	1/4	1/4	3,457.05	1/4	3,212.99	1/4	2,968.93	1/4	2,724.87	1/4	2,480.81	1/4	2,236.74	1/4	1,992.68	1/4	1,748.62	1/4	1,504.56
1/2	1/2	1/2	3,451.96	1/2	3,207.90	1/2	2,963.84	1/2	2,719.78	1/2	2,475.72	1/2	2,231.66	1/2	1,987.60	1/2	1,743.54	1/2	1,499.48
3/4	3/4	3/4	3,446.88	3/4	3,202.82	3/4	2,958.76	3/4	2,714.70	3/4	2,470.64	3/4	2,226.58	3/4	1,982.51	3/4	1,738.45	3/4	1,494.39

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" HERMETIC VALVE
GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 31'-06" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "E2MS 109"

2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-03"

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	IN	0
	1,489.31		1,245.25		1,001.19		757.72		519.09		275.04		31.23								
1/4	1,484.22	1/4	1,240.16	1/4	996.10	1/4	752.79	1/4	514.01	1/4	269.96	1/4	27.00	1/4		1/4		1/4		1/4	
1/2	1,479.14	1/2	1,235.08	1/2	991.02	1/2	747.85	1/2	508.92	1/2	264.88	1/2	22.76	1/2		1/2		1/2		1/2	
3/4	1,474.05	3/4	1,229.99	3/4	985.93	3/4	742.91	3/4	503.84	3/4	259.79	3/4	18.53	3/4		3/4		3/4		3/4	
1	1,468.97	1	1,224.91	1	980.85	1	737.98	1	498.75	1	254.71	1	14.29	1		1		1		1	
1/4	1,463.89	1/4	1,219.82	1/4	975.76	1/4	733.04	1/4	493.67	1/4	249.62	1/4	11.75	1/4		1/4		1/4		1/4	
1/2	1,458.80	1/2	1,214.74	1/2	970.68	1/2	728.11	1/2	488.59	1/2	244.54	1/2	9.21	1/2		1/2		1/2		1/2	
3/4	1,453.72	3/4	1,209.66	3/4	965.59	3/4	723.17	3/4	483.50	3/4	239.45	3/4	6.67	3/4		3/4		3/4		3/4	
2	1,448.63	2	1,204.57	2	960.51	2	718.24	2	478.42	2	234.37	2	4.12	2		2		2		2	
1/4	1,443.55	1/4	1,199.49	1/4	955.43	1/4	713.30	1/4	473.33	1/4	229.29	1/4	3.28	1/4		1/4		1/4		1/4	
1/2	1,438.46	1/2	1,194.40	1/2	950.34	1/2	708.37	1/2	468.25	1/2	224.20	1/2	2.43	1/2		1/2		1/2		1/2	
3/4	1,433.38	3/4	1,189.32	3/4	945.26	3/4	703.43	3/4	463.16	3/4	219.12	3/4	1.58	3/4		3/4		3/4		3/4	
3	1,428.29	3	1,184.23	3	940.17	3	698.50	3	458.08	3	214.03	3	0.73	3		3		3		3	
1/4	1,423.21	1/4	1,179.15	1/4	935.09	1/4	693.56	1/4	453.00	1/4	208.95	1/4		1/4		1/4		1/4		1/4	
1/2	1,418.12	1/2	1,174.06	1/2	930.00	1/2	688.63	1/2	447.91	1/2	203.86	1/2		1/2		1/2		1/2		1/2	
3/4	1,413.04	3/4	1,168.98	3/4	924.92	3/4	683.69	3/4	442.83	3/4	198.78	3/4		3/4		3/4		3/4		3/4	
4	1,407.95	4	1,163.89	4	919.83	4	678.76	4	437.74	4	193.70	4		4		4		4		4	
1/4	1,402.87	1/4	1,158.81	1/4	914.75	1/4	673.82	1/4	432.66	1/4	188.61	1/4		1/4		1/4		1/4		1/4	
1/2	1,397.79	1/2	1,153.72	1/2	909.66	1/2	668.89	1/2	427.57	1/2	183.53	1/2		1/2		1/2		1/2		1/2	
3/4	1,392.70	3/4	1,148.64	3/4	904.58	3/4	663.95	3/4	422.49	3/4	178.44	3/4		3/4		3/4		3/4		3/4	
5	1,387.62	5	1,143.56	5	899.49	5	659.02	5	417.40	5	173.36	5		5		5		5		5	
1/4	1,382.53	1/4	1,138.47	1/4	894.41	1/4	654.08	1/4	412.32	1/4	168.27	1/4		1/4		1/4		1/4		1/4	
1/2	1,377.45	1/2	1,133.39	1/2	889.33	1/2	649.15	1/2	407.24	1/2	163.19	1/2		1/2		1/2		1/2		1/2	
3/4	1,372.36	3/4	1,128.30	3/4	884.24	3/4	644.21	3/4	402.15	3/4	158.11	3/4		3/4		3/4		3/4		3/4	
6	1,367.28	6	1,123.22	6	879.16	6	639.28	6	397.07	6	153.02	6		6		6		6		6	
1/4	1,362.19	1/4	1,118.13	1/4	874.07	1/4	634.34	1/4	391.98	1/4	147.94	1/4		1/4		1/4		1/4		1/4	
1/2	1,357.11	1/2	1,113.05	1/2	868.99	1/2	629.41	1/2	386.90	1/2	142.85	1/2		1/2		1/2		1/2		1/2	
3/4	1,352.02	3/4	1,107.96	3/4	863.90	3/4	624.48	3/4	381.81	3/4	137.77	3/4		3/4		3/4		3/4		3/4	
7	1,346.94	7	1,102.88	7	858.82	7	619.54	7	376.73	7	132.68	7		7		7		7		7	
1/4	1,341.85	1/4	1,097.79	1/4	853.73	1/4	614.61	1/4	371.65	1/4	127.60	1/4		1/4		1/4		1/4		1/4	
1/2	1,336.77	1/2	1,092.71	1/2	848.65	1/2	609.68	1/2	366.56	1/2	122.52	1/2		1/2		1/2		1/2		1/2	
3/4	1,331.69	3/4	1,087.62	3/4	843.56	3/4	604.75	3/4	361.48	3/4	117.43	3/4		3/4		3/4		3/4		3/4	
8	1,326.60	8	1,082.54	8	838.48	8	599.82	8	356.39	8	112.35	8		8		8		8		8	
1/4	1,321.52	1/4	1,077.46	1/4	833.39	1/4	594.89	1/4	351.31	1/4	107.26	1/4		1/4		1/4		1/4		1/4	
1/2	1,316.43	1/2	1,072.37	1/2	828.31	1/2	589.96	1/2	346.22	1/2	102.18	1/2		1/2		1/2		1/2		1/2	
3/4	1,311.35	3/4	1,067.29	3/4	823.23	3/4	585.03	3/4	341.14	3/4	97.09	3/4		3/4		3/4		3/4		3/4	
9	1,306.26	9	1,062.20	9	818.14	9	580.10	9	336.06	9	92.01	9		9		9		9		9	
1/4	1,301.18	1/4	1,057.12	1/4	813.06	1/4	575.02	1/4	330.97	1/4	86.93	1/4		1/4		1/4		1/4		1/4	
1/2	1,296.09	1/2	1,052.03	1/2	807.97	1/2	569.93	1/2	325.89	1/2	81.84	1/2		1/2		1/2		1/2		1/2	
3/4	1,291.01	3/4	1,046.95	3/4	802.89	3/4	564.85	3/4	320.80	3/4	76.76	3/4		3/4		3/4		3/4		3/4	
10	1,285.92	10	1,041.86	10	797.80	10	559.77	10	315.72	10	71.68	10		10		10		10		10	
1/4	1,280.84	1/4	1,036.78	1/4	792.72	1/4	554.68	1/4	310.63	1/4	66.61	1/4		1/4		1/4		1/4		1/4	
1/2	1,275.75	1/2	1,031.69	1/2	787.63	1/2	549.60	1/2	305.55	1/2	61.54	1/2		1/2		1/2		1/2		1/2	
3/4	1,270.67	3/4	1,026.61	3/4	782.55	3/4	544.51	3/4	300.47	3/4	56.46	3/4		3/4		3/4		3/4		3/4	
11	1,265.59	11	1,021.52	11	777.46	11	539.43	11	295.38	11	51.39	11		11		11		11		11	
1/4	1,260.50	1/4	1,016.44	1/4	772.37	1/4	534.34	1/4	290.30	1/4	46.35	1/4		1/4		1/4		1/4		1/4	
1/2	1,255.42	1/2	1,011.36	1/2	767.29	1/2	529.26	1/2	285.21	1/2	41.31	1/2		1/2		1/2		1/2		1/2	
3/4	1,250.33	3/4	1,006.27	3/4	762.20	3/4	524.18	3/4	280.13	3/4	36.27	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/04/2020 JS
CALCULATED: 06/04/2020 CL
PRINTED: 06/04/2020 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2020

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



BARGE "E2MS 109"

3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-03 1/2"

IN	0 FT.		IN	1 FT.		IN	2 FT.		IN	3 FT.		IN	4 FT.		IN	5 FT.		IN	6 FT.		IN	7 FT.		IN	8 FT.		IN	9 FT.	
0		0			0	3,434.54	0	3,192.07	0	2,949.60	0	2,707.14	0	2,464.67	0	2,222.20	0	1,979.74	0	1,737.27									
1/4			1/4		1/4	3,429.49	1/4	3,187.02	1/4	2,944.55	1/4	2,702.09	1/4	2,459.62	1/4	2,217.15	1/4	1,974.68	1/4	1,732.22									
1/2			1/2		1/2	3,424.44	1/2	3,181.97	1/2	2,939.50	1/2	2,697.03	1/2	2,454.57	1/2	2,212.10	1/2	1,969.63	1/2	1,727.17									
3/4			3/4		3/4	3,419.39	3/4	3,176.92	3/4	2,934.45	3/4	2,691.98	3/4	2,449.52	3/4	2,207.05	3/4	1,964.58	3/4	1,722.11									
1	1	3,626.23	1	3,414.33	1	3,171.87	1	2,929.40	1	2,686.93	1	2,444.46	1	2,202.00	1	1,959.53	1	1,717.06											
1/4		3,625.81	1/4	3,409.28	1/4	3,166.82	1/4	2,924.35	1/4	2,681.88	1/4	2,439.41	1/4	2,196.95	1/4	1,954.48	1/4	1,712.01											
1/2		3,625.38	1/2	3,404.23	1/2	3,161.76	1/2	2,919.30	1/2	2,676.83	1/2	2,434.36	1/2	2,191.89	1/2	1,949.43	1/2	1,706.96											
3/4		3,623.70	3/4	3,399.18	3/4	3,156.71	3/4	2,914.25	3/4	2,671.78	3/4	2,429.31	3/4	2,186.84	3/4	1,944.38	3/4	1,701.91											
2	2	3,622.02	2	3,394.13	2	3,151.66	2	2,909.19	2	2,666.73	2	2,424.26	2	2,181.79	2	1,939.32	2	1,696.86											
1/4		3,620.33	1/4	3,389.08	1/4	3,146.61	1/4	2,904.14	1/4	2,661.68	1/4	2,419.21	1/4	2,176.74	1/4	1,934.27	1/4	1,691.81											
1/2		3,618.65	1/2	3,384.03	1/2	3,141.56	1/2	2,899.09	1/2	2,656.62	1/2	2,414.16	1/2	2,171.69	1/2	1,929.22	1/2	1,686.75											
3/4		3,615.28	3/4	3,378.97	3/4	3,136.51	3/4	2,894.04	3/4	2,651.57	3/4	2,409.11	3/4	2,166.64	3/4	1,924.17	3/4	1,681.70											
3	3	3,611.91	3	3,373.92	3	3,131.46	3	2,888.99	3	2,646.52	3	2,404.05	3	2,161.59	3	1,919.12	3	1,676.65											
1/4		3,608.55	1/4	3,368.87	1/4	3,126.40	1/4	2,883.94	1/4	2,641.47	1/4	2,399.00	1/4	2,156.54	1/4	1,914.07	1/4	1,671.60											
1/2		3,605.18	1/2	3,363.82	1/2	3,121.35	1/2	2,878.89	1/2	2,636.42	1/2	2,393.95	1/2	2,151.48	1/2	1,909.02	1/2	1,666.55											
3/4		3,600.37	3/4	3,358.77	3/4	3,116.30	3/4	2,873.83	3/4	2,631.37	3/4	2,388.90	3/4	2,146.43	3/4	1,903.97	3/4	1,661.50											
4	4	3,595.56	4	3,353.72	4	3,111.25	4	2,868.78	4	2,626.32	4	2,383.85	4	2,141.38	4	1,898.91	4	1,656.45											
1/4		3,590.75	1/4	3,348.67	1/4	3,106.20	1/4	2,863.73	1/4	2,621.26	1/4	2,378.80	1/4	2,136.33	1/4	1,893.86	1/4	1,651.40											
1/2		3,585.94	1/2	3,343.61	1/2	3,101.15	1/2	2,858.68	1/2	2,616.21	1/2	2,373.75	1/2	2,131.28	1/2	1,888.81	1/2	1,646.34											
3/4		3,580.91	3/4	3,338.56	3/4	3,096.10	3/4	2,853.63	3/4	2,611.16	3/4	2,368.69	3/4	2,126.23	3/4	1,883.76	3/4	1,641.29											
5	5	3,575.88	5	3,333.51	5	3,091.04	5	2,848.58	5	2,606.11	5	2,363.64	5	2,121.18	5	1,878.71	5	1,636.24											
1/4		3,570.85	1/4	3,328.46	1/4	3,085.99	1/4	2,843.53	1/4	2,601.06	1/4	2,358.59	1/4	2,116.12	1/4	1,873.66	1/4	1,631.19											
1/2		3,565.83	1/2	3,323.41	1/2	3,080.94	1/2	2,838.47	1/2	2,596.01	1/2	2,353.54	1/2	2,111.07	1/2	1,868.61	1/2	1,626.14											
3/4		3,560.79	3/4	3,318.36	3/4	3,075.89	3/4	2,833.42	3/4	2,590.96	3/4	2,348.49	3/4	2,106.02	3/4	1,863.55	3/4	1,621.09											
6	6	3,555.75	6	3,313.31	6	3,070.84	6	2,828.37	6	2,585.90	6	2,343.44	6	2,100.97	6	1,858.50	6	1,616.04											
1/4		3,550.71	1/4	3,308.25	1/4	3,065.79	1/4	2,823.32	1/4	2,580.85	1/4	2,338.39	1/4	2,095.92	1/4	1,853.45	1/4	1,610.98											
1/2		3,545.67	1/2	3,303.20	1/2	3,060.74	1/2	2,818.27	1/2	2,575.80	1/2	2,333.33	1/2	2,090.87	1/2	1,848.40	1/2	1,605.93											
3/4		3,540.62	3/4	3,298.15	3/4	3,055.68	3/4	2,813.22	3/4	2,570.75	3/4	2,328.28	3/4	2,085.82	3/4	1,843.35	3/4	1,600.88											
7	7	3,535.57	7	3,293.10	7	3,050.63	7	2,808.17	7	2,565.70	7	2,323.23	7	2,080.76	7	1,838.30	7	1,595.83											
1/4		3,530.52	1/4	3,288.05	1/4	3,045.58	1/4	2,803.11	1/4	2,560.65	1/4	2,318.18	1/4	2,075.71	1/4	1,833.25	1/4	1,590.78											
1/2		3,525.46	1/2	3,283.00	1/2	3,040.53	1/2	2,798.06	1/2	2,555.60	1/2	2,313.13	1/2	2,070.66	1/2	1,828.19	1/2	1,585.73											
3/4		3,520.41	3/4	3,277.95	3/4	3,035.48	3/4	2,793.01	3/4	2,550.54	3/4	2,308.08	3/4	2,065.61	3/4	1,823.14	3/4	1,580.68											
8	8	3,515.36	8	3,272.89	8	3,030.43	8	2,787.96	8	2,545.49	8	2,303.03	8	2,060.56	8	1,818.09	8	1,575.62											
1/4		3,510.31	1/4	3,267.84	1/4	3,025.38	1/4	2,782.91	1/4	2,540.44	1/4	2,297.97	1/4	2,055.51	1/4	1,813.04	1/4	1,570.57											
1/2		3,505.26	1/2	3,262.79	1/2	3,020.32	1/2	2,777.86	1/2	2,535.39	1/2	2,292.92	1/2	2,050.46	1/2	1,807.99	1/2	1,565.52											
3/4		3,500.21	3/4	3,257.74	3/4	3,015.27	3/4	2,772.81	3/4	2,530.34	3/4	2,287.87	3/4	2,045.40	3/4	1,802.94	3/4	1,560.47											
9	9	3,495.16	9	3,252.69	9	3,010.22	9	2,767.75	9	2,525.29	9	2,282.82	9	2,040.35	9	1,797.89	9	1,555.42											
1/4		3,490.10	1/4	3,247.64	1/4	3,005.17	1/4	2,762.70	1/4	2,520.24	1/4	2,277.77	1/4	2,035.30	1/4	1,792.83	1/4	1,550.37											
1/2		3,485.05	1/2	3,242.59	1/2	3,000.12	1/2	2,757.65	1/2	2,515.18	1/2	2,272.72	1/2	2,030.25	1/2	1,787.78	1/2	1,545.32											
3/4		3,480.00	3/4	3,237.53	3/4	2,995.07	3/4	2,752.60	3/4	2,510.13	3/4	2,267.67	3/4	2,025.20	3/4	1,782.73	3/4	1,540.26											
10	10	3,474.95	10	3,232.48	10	2,990.02	10	2,747.55	10	2,505.08	10	2,262.61	10	2,020.15	10	1,777.68	10	1,535.21											
1/4		3,469.90	1/4	3,227.43	1/4	2,984.96	1/4	2,742.50	1/4	2,500.03	1/4	2,257.56	1/4	2,015.10	1/4	1,772.63	1/4	1,530.16											
1/2		3,464.85	1/2	3,222.38	1/2	2,979.91	1/2	2,737.45	1/2	2,494.98	1/2	2,252.51	1/2	2,010.04	1/2	1,767.58	1/2	1,525.11											
3/4		3,459.80	3/4	3,217.33	3/4	2,974.86	3/4	2,732.39	3/4	2,489.93	3/4	2,247.46	3/4	2,004.99	3/4	1,762.53	3/4	1,520.06											
11	11	3,454.74	11	3,212.28	11	2,969.81	11	2,727.34	11	2,484.88	11	2,242.41	11	1,999.94	11	1,757.47	11	1,515.01											
1/4		3,449.69	1/4	3,207.23	1/4	2,964.76	1/4	2,722.29	1/4	2,479.82	1/4	2,237.36	1/4	1,994.89	1/4	1,752.42	1/4	1,509.96											
1/2		3,444.64	1/2	3,202.17	1/2	2,959.71	1/2	2,717.24	1/2	2,474.77	1/2	2,232.31	1/2	1,989.84	1/2	1,747.37	1/2	1,504.90											
3/4		3,439.59	3/4	3,197.12	3/4	2,954.66	3/4	2,712.19	3/4	2,469.72	3/4	2,227.25	3/4	1,984.79	3/4	1,742.32	3/4	1,499.85											

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" HERMETIC VALVE
 GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 24'-00" FORWARD OF AFT BULKHEAD

**PRECISION MEASUREMENT
& ANALYSIS, INC.**

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



BARGE "E2MS 109"

3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-03 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,494.80	0	1,252.33	0	1,009.87	0	767.43	0	525.81	0	283.35	0	41.05	0		0		0	
1/4	1,489.75	1/4	1,247.28	1/4	1,004.82	1/4	762.40	1/4	520.76	1/4	278.30	1/4	36.04	1/4		1/4		1/4	
1/2	1,484.70	1/2	1,242.23	1/2	999.76	1/2	757.36	1/2	515.70	1/2	273.25	1/2	31.03	1/2		1/2		1/2	
3/4	1,479.65	3/4	1,237.18	3/4	994.71	3/4	752.33	3/4	510.65	3/4	268.20	3/4	26.82	3/4		3/4		3/4	
1	1,474.60	1	1,232.13	1	989.66	1	747.29	1	505.60	1	263.15	1	22.62	1		1		1	
1/4	1,469.54	1/4	1,227.08	1/4	984.61	1/4	742.26	1/4	500.55	1/4	258.10	1/4	18.41	1/4		1/4		1/4	
1/2	1,464.49	1/2	1,222.03	1/2	979.56	1/2	737.22	1/2	495.50	1/2	253.05	1/2	14.20	1/2		1/2		1/2	
3/4	1,459.44	3/4	1,216.97	3/4	974.51	3/4	732.20	3/4	490.45	3/4	248.00	3/4	11.68	3/4		3/4		3/4	
2	1,454.39	2	1,211.92	2	969.46	2	727.17	2	485.40	2	242.95	2	9.15	2		2		2	
1/4	1,449.34	1/4	1,206.87	1/4	964.40	1/4	722.14	1/4	480.35	1/4	237.89	1/4	6.63	1/4		1/4		1/4	
1/2	1,444.29	1/2	1,201.82	1/2	959.35	1/2	717.11	1/2	475.30	1/2	232.84	1/2	4.10	1/2		1/2		1/2	
3/4	1,439.24	3/4	1,196.77	3/4	954.30	3/4	712.08	3/4	470.25	3/4	227.79	3/4	3.26	3/4		3/4		3/4	
3	1,434.18	3	1,191.72	3	949.25	3	707.05	3	465.19	3	222.74	3	2.42	3		3		3	
1/4	1,429.13	1/4	1,186.67	1/4	944.20	1/4	702.03	1/4	460.14	1/4	217.69	1/4	1.58	1/4		1/4		1/4	
1/2	1,424.08	1/2	1,181.61	1/2	939.15	1/2	697.00	1/2	455.09	1/2	212.64	1/2	0.73	1/2		1/2		1/2	
3/4	1,419.03	3/4	1,176.56	3/4	934.10	3/4	691.97	3/4	450.04	3/4	207.59	3/4		3/4		3/4		3/4	
4	1,413.98	4	1,171.51	4	929.04	4	686.94	4	444.99	4	202.54	4		4		4		4	
1/4	1,408.93	1/4	1,166.46	1/4	923.99	1/4	681.91	1/4	439.94	1/4	197.49	1/4		1/4		1/4		1/4	
1/2	1,403.88	1/2	1,161.41	1/2	918.94	1/2	676.88	1/2	434.89	1/2	192.43	1/2		1/2		1/2		1/2	
3/4	1,398.83	3/4	1,156.36	3/4	913.89	3/4	671.86	3/4	429.84	3/4	187.38	3/4		3/4		3/4		3/4	
5	1,393.77	5	1,151.31	5	908.84	5	666.83	5	424.79	5	182.33	5		5		5		5	
1/4	1,388.72	1/4	1,146.26	1/4	903.79	1/4	661.80	1/4	419.73	1/4	177.28	1/4		1/4		1/4		1/4	
1/2	1,383.67	1/2	1,141.20	1/2	898.74	1/2	656.77	1/2	414.68	1/2	172.23	1/2		1/2		1/2		1/2	
3/4	1,378.62	3/4	1,136.15	3/4	893.69	3/4	651.74	3/4	409.63	3/4	167.18	3/4		3/4		3/4		3/4	
6	1,373.57	6	1,131.10	6	888.63	6	646.71	6	404.58	6	162.13	6		6		6		6	
1/4	1,368.52	1/4	1,126.05	1/4	883.58	1/4	641.69	1/4	399.53	1/4	157.08	1/4		1/4		1/4		1/4	
1/2	1,363.47	1/2	1,121.00	1/2	878.53	1/2	636.66	1/2	394.48	1/2	152.03	1/2		1/2		1/2		1/2	
3/4	1,358.41	3/4	1,115.95	3/4	873.48	3/4	631.63	3/4	389.43	3/4	146.97	3/4		3/4		3/4		3/4	
7	1,353.36	7	1,110.90	7	868.43	7	626.60	7	384.38	7	141.92	7		7		7		7	
1/4	1,348.31	1/4	1,105.84	1/4	863.38	1/4	621.57	1/4	379.33	1/4	136.87	1/4		1/4		1/4		1/4	
1/2	1,343.26	1/2	1,100.79	1/2	858.33	1/2	616.54	1/2	374.27	1/2	131.82	1/2		1/2		1/2		1/2	
3/4	1,338.21	3/4	1,095.74	3/4	853.27	3/4	611.52	3/4	369.22	3/4	126.77	3/4		3/4		3/4		3/4	
8	1,333.16	8	1,090.69	8	848.22	8	606.49	8	364.17	8	121.72	8		8		8		8	
1/4	1,328.11	1/4	1,085.64	1/4	843.17	1/4	601.46	1/4	359.12	1/4	116.67	1/4		1/4		1/4		1/4	
1/2	1,323.05	1/2	1,080.59	1/2	838.12	1/2	596.43	1/2	354.07	1/2	111.62	1/2		1/2		1/2		1/2	
3/4	1,318.00	3/4	1,075.54	3/4	833.07	3/4	591.40	3/4	349.02	3/4	106.57	3/4		3/4		3/4		3/4	
9	1,312.95	9	1,070.48	9	828.02	9	586.37	9	343.97	9	101.51	9		9		9		9	
1/4	1,307.90	1/4	1,065.43	1/4	822.97	1/4	581.35	1/4	338.92	1/4	96.46	1/4		1/4		1/4		1/4	
1/2	1,302.85	1/2	1,060.38	1/2	817.91	1/2	576.32	1/2	333.87	1/2	91.41	1/2		1/2		1/2		1/2	
3/4	1,297.80	3/4	1,055.33	3/4	812.86	3/4	571.27	3/4	328.81	3/4	86.36	3/4		3/4		3/4		3/4	
10	1,292.75	10	1,050.28	10	807.81	10	566.22	10	323.76	10	81.31	10		10		10		10	
1/4	1,287.69	1/4	1,045.23	1/4	802.76	1/4	561.16	1/4	318.71	1/4	76.26	1/4		1/4		1/4		1/4	
1/2	1,282.64	1/2	1,040.18	1/2	797.71	1/2	556.11	1/2	313.66	1/2	71.21	1/2		1/2		1/2		1/2	
3/4	1,277.59	3/4	1,035.12	3/4	792.66	3/4	551.06	3/4	308.61	3/4	66.18	3/4		3/4		3/4		3/4	
11	1,272.54	11	1,030.07	11	787.61	11	546.01	11	303.56	11	61.14	11		11		11		11	
1/4	1,267.49	1/4	1,025.02	1/4	782.55	1/4	540.96	1/4	298.51	1/4	56.10	1/4		1/4		1/4		1/4	
1/2	1,262.44	1/2	1,019.97	1/2	777.50	1/2	535.91	1/2	293.46	1/2	51.06	1/2		1/2		1/2		1/2	
3/4	1,257.39	3/4	1,014.92	3/4	772.47	3/4	530.86	3/4	288.41	3/4	46.05	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/04/2020 JS
CALCULATED: 06/04/2020 CL
PRINTED: 06/04/2020 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2020

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