



BARGE "E2MS 311"

INNAGE (10" HATCH)

	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	02-0/8	- 02-0/8	04-0/8	- 04-0/8	06-1/8	- 06-1/8	08-1/8	- 08-1/8	10-1/8	- 10-1/8	12-1/4	- 12-1/4
1 STBD	02-0/8	- 02-0/8	04-0/8	- 04-0/8	06-1/8	- 06-1/8	08-1/8	- 08-1/8	10-1/8	- 10-1/8	12-1/8	- 12-1/8
2 PORT	02-0/8	- 02-0/8	04-1/8	- 04-1/8	06-1/8	- 06-1/8	08-1/8	- 08-1/8	10-1/8	- 10-1/8	12-1/4	- 12-1/4
2 STBD	02-0/8	- 02-0/8	04-1/8	- 04-1/8	06-1/8	- 06-1/8	08-1/8	- 08-1/8	10-1/8	- 10-1/8	12-1/4	- 12-1/4
3 PORT	- 02-0/8	02-0/8	- 04-0/8	04-0/8	- 06-1/8	06-1/8	- 08-1/8	08-1/8	- 10-1/8	10-1/8	- 12-1/8	12-1/8
3 STBD	- 02-0/8	02-0/8	- 04-0/8	04-0/8	- 06-1/8	06-1/8	- 08-1/8	08-1/8	- 10-1/8	10-1/8	- 12-1/8	12-1/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 2'-00"
 AFT DRAFT = 6'-00"
 DIFF. = 4'-00" (DOWN BY STERN)

THE CORRECTION FOR 4'-00" TRIM DOWN BY STERN FOR 1 PORT IS - 08-1/8"
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED INNAGE IS 3'-03 7/8"

LENGTH BETWEEN DRAFT MARKS: 235'-09"

July 18, 2018

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



BARGE "E2MS 311"

1 PORT INNAGE TABLE

10" HATCH GAUGE HEIGHT 17'-06 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	2.23	0	262.77	0	607.85	0	964.15	0	1,320.91	0	1,678.71	0	2,036.51	0	2,394.31	0	2,752.07	0	3,109.77
1/4	4.09	1/4	269.53	1/4	615.30	1/4	971.54	1/4	1,328.36	1/4	1,686.16	1/4	2,043.97	1/4	2,401.77	1/4	2,759.53	1/4	3,117.23
1/2	5.96	1/2	276.28	1/2	622.76	1/2	978.94	1/2	1,335.82	1/2	1,693.62	1/2	2,051.42	1/2	2,409.22	1/2	2,766.98	1/2	3,124.68
3/4	7.82	3/4	283.04	3/4	630.21	3/4	986.33	3/4	1,343.27	3/4	1,701.07	3/4	2,058.87	3/4	2,416.68	3/4	2,774.43	3/4	3,132.13
1	9.68	1	289.79	1	637.66	1	993.73	1	1,350.73	1	1,708.53	1	2,066.33	1	2,424.13	1	2,781.88	1	3,139.58
1/4	12.60	1/4	296.63	1/4	645.12	1/4	1,001.12	1/4	1,358.18	1/4	1,715.98	1/4	2,073.78	1/4	2,431.58	1/4	2,789.33	1/4	3,147.03
1/2	15.52	1/2	303.48	1/2	652.57	1/2	1,008.52	1/2	1,365.63	1/2	1,723.44	1/2	2,081.24	1/2	2,439.04	1/2	2,796.79	1/2	3,154.49
3/4	18.44	3/4	310.32	3/4	660.03	3/4	1,015.91	3/4	1,373.09	3/4	1,730.89	3/4	2,088.69	3/4	2,446.49	3/4	2,804.24	3/4	3,161.94
2	21.35	2	317.16	2	667.48	2	1,023.31	2	1,380.54	2	1,738.34	2	2,096.15	2	2,453.95	2	2,811.69	2	3,169.39
1/4	25.37	1/4	324.09	1/4	674.93	1/4	1,030.71	1/4	1,388.00	1/4	1,745.80	1/4	2,103.60	1/4	2,461.40	1/4	2,819.14	1/4	3,176.84
1/2	29.39	1/2	331.02	1/2	682.39	1/2	1,038.11	1/2	1,395.45	1/2	1,753.25	1/2	2,111.05	1/2	2,468.86	1/2	2,826.59	1/2	3,184.30
3/4	33.40	3/4	337.95	3/4	689.84	3/4	1,045.51	3/4	1,402.90	3/4	1,760.71	3/4	2,118.51	3/4	2,476.31	3/4	2,834.05	3/4	3,191.75
3	37.42	3	344.88	3	697.30	3	1,052.91	3	1,410.36	3	1,768.16	3	2,125.96	3	2,483.76	3	2,841.50	3	3,199.20
1/4	42.90	1/4	351.89	1/4	704.75	1/4	1,060.32	1/4	1,417.81	1/4	1,775.61	1/4	2,133.42	1/4	2,491.22	1/4	2,848.95	1/4	3,206.65
1/2	48.38	1/2	358.91	1/2	712.20	1/2	1,067.74	1/2	1,425.27	1/2	1,783.07	1/2	2,140.87	1/2	2,498.67	1/2	2,856.40	1/2	3,214.10
3/4	53.86	3/4	365.93	3/4	719.66	3/4	1,075.15	3/4	1,432.72	3/4	1,790.52	3/4	2,148.32	3/4	2,506.13	3/4	2,863.85	3/4	3,221.56
4	59.35	4	372.95	4	727.11	4	1,082.56	4	1,440.18	4	1,797.98	4	2,155.78	4	2,513.58	4	2,871.31	4	3,229.01
1/4	65.38	1/4	380.05	1/4	734.57	1/4	1,089.99	1/4	1,447.63	1/4	1,805.43	1/4	2,163.23	1/4	2,521.03	1/4	2,878.76	1/4	3,236.46
1/2	71.41	1/2	387.15	1/2	742.02	1/2	1,097.41	1/2	1,455.08	1/2	1,812.89	1/2	2,170.69	1/2	2,528.49	1/2	2,886.21	1/2	3,243.91
3/4	77.44	3/4	394.26	3/4	749.47	3/4	1,104.83	3/4	1,462.54	3/4	1,820.34	3/4	2,178.14	3/4	2,535.94	3/4	2,893.66	3/4	3,251.36
5	83.47	5	401.36	5	756.93	5	1,112.25	5	1,469.99	5	1,827.79	5	2,185.60	5	2,543.40	5	2,901.12	5	3,258.82
1/4	89.61	1/4	408.55	1/4	764.36	1/4	1,119.69	1/4	1,477.45	1/4	1,835.25	1/4	2,193.05	1/4	2,550.85	1/4	2,908.57	1/4	3,266.27
1/2	95.74	1/2	415.75	1/2	771.78	1/2	1,127.13	1/2	1,484.90	1/2	1,842.70	1/2	2,200.50	1/2	2,558.31	1/2	2,916.02	1/2	3,273.72
3/4	101.88	3/4	422.94	3/4	779.21	3/4	1,134.57	3/4	1,492.36	3/4	1,850.16	3/4	2,207.96	3/4	2,565.76	3/4	2,923.47	3/4	3,281.17
6	108.02	6	430.13	6	786.64	6	1,142.01	6	1,499.81	6	1,857.61	6	2,215.41	6	2,573.21	6	2,930.92	6	3,288.62
1/4	114.25	1/4	437.41	1/4	794.04	1/4	1,149.46	1/4	1,507.26	1/4	1,865.07	1/4	2,222.87	1/4	2,580.67	1/4	2,938.38	1/4	3,296.08
1/2	120.48	1/2	444.69	1/2	801.44	1/2	1,156.92	1/2	1,514.72	1/2	1,872.52	1/2	2,230.32	1/2	2,588.12	1/2	2,945.83	1/2	3,303.53
3/4	126.70	3/4	451.97	3/4	808.84	3/4	1,164.37	3/4	1,522.17	3/4	1,879.97	3/4	2,237.78	3/4	2,595.58	3/4	2,953.28	3/4	3,310.98
7	132.93	7	459.25	7	816.24	7	1,171.82	7	1,529.63	7	1,887.43	7	2,245.23	7	2,603.03	7	2,960.73	7	3,318.43
1/4	139.25	1/4	466.61	1/4	823.64	1/4	1,179.28	1/4	1,537.08	1/4	1,894.88	1/4	2,252.68	1/4	2,610.48	1/4	2,968.18	1/4	3,325.89
1/2	145.57	1/2	473.98	1/2	831.03	1/2	1,186.73	1/2	1,544.53	1/2	1,902.34	1/2	2,260.14	1/2	2,617.94	1/2	2,975.64	1/2	3,333.34
3/4	151.89	3/4	481.35	3/4	838.43	3/4	1,194.19	3/4	1,551.99	3/4	1,909.79	3/4	2,267.59	3/4	2,625.39	3/4	2,983.09	3/4	3,340.79
8	158.20	8	488.71	8	845.82	8	1,201.64	8	1,559.44	8	1,917.24	8	2,275.05	8	2,632.84	8	2,990.54	8	3,348.24
1/4	164.61	1/4	496.14	1/4	853.22	1/4	1,209.10	1/4	1,566.90	1/4	1,924.70	1/4	2,282.50	1/4	2,640.29	1/4	2,997.99	1/4	3,355.69
1/2	171.01	1/2	503.58	1/2	860.61	1/2	1,216.55	1/2	1,574.35	1/2	1,932.15	1/2	2,289.95	1/2	2,647.74	1/2	3,005.44	1/2	3,363.15
3/4	177.42	3/4	511.01	3/4	868.01	3/4	1,224.00	3/4	1,581.81	3/4	1,939.61	3/4	2,297.41	3/4	2,655.20	3/4	3,012.90	3/4	3,370.60
9	183.82	9	518.44	9	875.40	9	1,231.46	9	1,589.26	9	1,947.06	9	2,304.86	9	2,662.65	9	3,020.35	9	3,378.05
1/4	190.31	1/4	525.89	1/4	882.80	1/4	1,238.91	1/4	1,596.71	1/4	1,954.52	1/4	2,312.32	1/4	2,670.10	1/4	3,027.80	1/4	3,385.50
1/2	196.80	1/2	533.34	1/2	890.19	1/2	1,246.37	1/2	1,604.17	1/2	1,961.97	1/2	2,319.77	1/2	2,677.55	1/2	3,035.25	1/2	3,392.95
3/4	203.30	3/4	540.80	3/4	897.59	3/4	1,253.82	3/4	1,611.62	3/4	1,969.42	3/4	2,327.23	3/4	2,685.00	3/4	3,042.71	3/4	3,400.41
10	209.79	10	548.25	10	904.98	10	1,261.28	10	1,619.08	10	1,976.88	10	2,334.68	10	2,692.46	10	3,050.16	10	3,407.86
1/4	216.37	1/4	555.70	1/4	912.38	1/4	1,268.73	1/4	1,626.53	1/4	1,984.33	1/4	2,342.13	1/4	2,699.91	1/4	3,057.61	1/4	3,415.31
1/2	222.95	1/2	563.14	1/2	919.78	1/2	1,276.18	1/2	1,633.98	1/2	1,991.79	1/2	2,349.59	1/2	2,707.36	1/2	3,065.06	1/2	3,422.76
3/4	229.53	3/4	570.59	3/4	927.17	3/4	1,283.64	3/4	1,641.44	3/4	1,999.24	3/4	2,357.04	3/4	2,714.81	3/4	3,072.51	3/4	3,430.21
11	236.11	11	578.04	11	934.57	11	1,291.09	11	1,648.89	11	2,006.69	11	2,364.50	11	2,722.27	11	3,079.97	11	3,437.67
1/4	242.77	1/4	585.49	1/4	941.96	1/4	1,298.55	1/4	1,656.35	1/4	2,014.15	1/4	2,371.95	1/4	2,729.72	1/4	3,087.42	1/4	3,445.12
1/2	249.44	1/2	592.94	1/2	949.36	1/2	1,306.00	1/2	1,663.80	1/2	2,021.60	1/2	2,379.40	1/2	2,737.17	1/2	3,094.87	1/2	3,452.57
3/4	256.11	3/4	600.40	3/4	956.75	3/4	1,313.45	3/4	1,671.26	3/4	2,029.06	3/4	2,386.86	3/4	2,744.62	3/4	3,102.32	3/4	3,460.02

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 LIP 10" HATCH ON EXPANSION DOME.
 GAUGE POINT: (10" HATCH) LOCATED 3'-00" OFF CENTERLINE AND 3'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
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BARGE "E2MS 311"

1 PORT INNAGE TABLE 10" HATCH GAUGE HEIGHT 17'-06 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,467.47	0	3,825.18	0	4,182.32	0	4,538.98	0	4,894.32	0		0		0		0		0	
1/4	3,474.93	1/4	3,832.63	1/4	4,189.75	1/4	4,546.41	1/4	4,901.67	1/4		1/4		1/4		1/4		1/4	
1/2	3,482.38	1/2	3,840.08	1/2	4,197.18	1/2	4,553.84	1/2	4,909.02	1/2		1/2		1/2		1/2		1/2	
3/4	3,489.83	3/4	3,847.53	3/4	4,204.61	3/4	4,561.27	3/4	4,916.37	3/4		3/4		3/4		3/4		3/4	
1	3,497.28	1	3,854.98	1	4,212.04	1	4,568.70	1	4,923.72	1		1		1		1		1	
1/4	3,504.74	1/4	3,862.44	1/4	4,219.47	1/4	4,576.13	1/4	4,931.03	1/4		1/4		1/4		1/4		1/4	
1/2	3,512.19	1/2	3,869.89	1/2	4,226.90	1/2	4,583.56	1/2	4,938.35	1/2		1/2		1/2		1/2		1/2	
3/4	3,519.64	3/4	3,877.34	3/4	4,234.33	3/4	4,590.99	3/4	4,945.66	3/4		3/4		3/4		3/4		3/4	
2	3,527.09	2	3,884.79	2	4,241.76	2	4,598.42	2	4,952.98	2		2		2		2		2	
1/4	3,534.54	1/4	3,892.24	1/4	4,249.19	1/4	4,605.85	1/4	4,959.84	1/4		1/4		1/4		1/4		1/4	
1/2	3,542.00	1/2	3,899.70	1/2	4,256.62	1/2	4,613.28	1/2	4,966.70	1/2		1/2		1/2		1/2		1/2	
3/4	3,549.45	3/4	3,907.15	3/4	4,264.05	3/4	4,620.71	3/4	4,973.55	3/4		3/4		3/4		3/4		3/4	
3	3,556.90	3	3,914.60	3	4,271.48	3	4,628.14	3	4,980.41	3		3		3		3		3	
1/4	3,564.35	1/4	3,922.05	1/4	4,278.91	1/4	4,635.57	1/4	4,986.22	1/4		1/4		1/4		1/4		1/4	
1/2	3,571.80	1/2	3,929.51	1/2	4,286.34	1/2	4,643.00	1/2	4,992.02	1/2		1/2		1/2		1/2		1/2	
3/4	3,579.26	3/4	3,936.96	3/4	4,293.77	3/4	4,650.43	3/4	4,997.83	3/4		3/4		3/4		3/4		3/4	
4	3,586.71	4	3,944.41	4	4,301.20	4	4,657.86	4	5,003.63	4		4		4		4		4	
1/4	3,594.16	1/4	3,951.86	1/4	4,308.64	1/4	4,665.29	1/4	5,008.20	1/4		1/4		1/4		1/4		1/4	
1/2	3,601.61	1/2	3,959.31	1/2	4,316.07	1/2	4,672.72	1/2	5,012.76	1/2		1/2		1/2		1/2		1/2	
3/4	3,609.06	3/4	3,966.77	3/4	4,323.50	3/4	4,680.16	3/4	5,017.32	3/4		3/4		3/4		3/4		3/4	
5	3,616.52	5	3,974.22	5	4,330.93	5	4,687.59	5	5,021.89	5		5		5		5		5	
1/4	3,623.97	1/4	3,981.66	1/4	4,338.36	1/4	4,695.02	1/4	5,025.21	1/4		1/4		1/4		1/4		1/4	
1/2	3,631.42	1/2	3,989.10	1/2	4,345.79	1/2	4,702.45	1/2	5,028.53	1/2		1/2		1/2		1/2		1/2	
3/4	3,638.87	3/4	3,996.55	3/4	4,353.22	3/4	4,709.88	3/4	5,031.85	3/4		3/4		3/4		3/4		3/4	
6	3,646.33	6	4,003.99	6	4,360.65	6	4,717.31	6	5,035.17	6		6		6		6		6	
1/4	3,653.78	1/4	4,011.42	1/4	4,368.08	1/4	4,724.74	1/4	5,037.25	1/4		1/4		1/4		1/4		1/4	
1/2	3,661.23	1/2	4,018.85	1/2	4,375.51	1/2	4,732.17	1/2	5,039.33	1/2		1/2		1/2		1/2		1/2	
3/4	3,668.68	3/4	4,026.28	3/4	4,382.94	3/4	4,739.60	3/4	5,041.41	3/4		3/4		3/4		3/4		3/4	
7	3,676.13	7	4,033.71	7	4,390.37	7	4,747.03	7	5,043.49	7		7		7		7		7	
1/4	3,683.59	1/4	4,041.14	1/4	4,397.80	1/4	4,754.42	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,691.04	1/2	4,048.57	1/2	4,405.23	1/2	4,761.82	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,698.49	3/4	4,056.00	3/4	4,412.66	3/4	4,769.21	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,705.94	8	4,063.43	8	4,420.09	8	4,776.60	8		8		8		8		8		8	
1/4	3,713.39	1/4	4,070.86	1/4	4,427.52	1/4	4,783.96	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,720.85	1/2	4,078.29	1/2	4,434.95	1/2	4,791.32	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,728.30	3/4	4,085.72	3/4	4,442.38	3/4	4,798.67	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,735.75	9	4,093.15	9	4,449.81	9	4,806.03	9		9		9		9		9		9	
1/4	3,743.20	1/4	4,100.58	1/4	4,457.24	1/4	4,813.39	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,750.65	1/2	4,108.01	1/2	4,464.67	1/2	4,820.74	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,758.11	3/4	4,115.44	3/4	4,472.10	3/4	4,828.10	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,765.56	10	4,122.87	10	4,479.53	10	4,835.46	10		10		10		10		10		10	
1/4	3,773.01	1/4	4,130.31	1/4	4,486.96	1/4	4,842.82	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,780.46	1/2	4,137.74	1/2	4,494.40	1/2	4,850.17	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,787.92	3/4	4,145.17	3/4	4,501.83	3/4	4,857.53	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,795.37	11	4,152.60	11	4,509.26	11	4,864.89	11		11		11		11		11		11	
1/4	3,802.82	1/4	4,160.03	1/4	4,516.69	1/4	4,872.25	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,810.27	1/2	4,167.46	1/2	4,524.12	1/2	4,879.60	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,817.72	3/4	4,174.89	3/4	4,531.55	3/4	4,886.96	3/4		3/4		3/4		3/4		3/4		3/4	

STRAPPED: 07/18/2018 CL
CALCULATED: 07/19/2018 CL
PRINTED: 07/20/2018 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2018

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "E2MS 311"

1 STBD INNAGE TABLE

10" HATCH GAUGE HEIGHT 17'-06 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	2.23	0	262.61	0	607.54	0	964.84	0	1,322.26	0	1,679.87	0	2,037.48	0	2,395.09	0	2,752.65	0	3,110.16
1/4	4.09	1/4	269.36	1/4	614.99	1/4	972.27	1/4	1,329.71	1/4	1,687.32	1/4	2,044.93	1/4	2,402.54	1/4	2,760.10	1/4	3,117.61
1/2	5.95	1/2	276.11	1/2	622.44	1/2	979.71	1/2	1,337.16	1/2	1,694.77	1/2	2,052.38	1/2	2,409.99	1/2	2,767.55	1/2	3,125.06
3/4	7.82	3/4	282.86	3/4	629.89	3/4	987.15	3/4	1,344.61	3/4	1,702.22	3/4	2,059.83	3/4	2,417.44	3/4	2,775.00	3/4	3,132.51
1	9.68	1	289.61	1	637.34	1	994.58	1	1,352.06	1	1,709.67	1	2,067.28	1	2,424.89	1	2,782.45	1	3,139.96
1/4	12.59	1/4	296.45	1/4	644.79	1/4	1,002.02	1/4	1,359.51	1/4	1,717.12	1/4	2,074.73	1/4	2,432.34	1/4	2,789.89	1/4	3,147.40
1/2	15.51	1/2	303.29	1/2	652.24	1/2	1,009.45	1/2	1,366.96	1/2	1,724.57	1/2	2,082.18	1/2	2,439.79	1/2	2,797.34	1/2	3,154.85
3/4	18.43	3/4	310.13	3/4	659.69	3/4	1,016.89	3/4	1,374.41	3/4	1,732.02	3/4	2,089.63	3/4	2,447.24	3/4	2,804.79	3/4	3,162.30
2	21.34	2	316.97	2	667.14	2	1,024.33	2	1,381.86	2	1,739.47	2	2,097.08	2	2,454.69	2	2,812.24	2	3,169.75
1/4	25.35	1/4	323.89	1/4	674.59	1/4	1,031.77	1/4	1,389.31	1/4	1,746.92	1/4	2,104.53	1/4	2,462.14	1/4	2,819.69	1/4	3,177.20
1/2	29.37	1/2	330.82	1/2	682.04	1/2	1,039.21	1/2	1,396.76	1/2	1,754.37	1/2	2,111.98	1/2	2,469.59	1/2	2,827.14	1/2	3,184.64
3/4	33.38	3/4	337.74	3/4	689.49	3/4	1,046.65	3/4	1,404.21	3/4	1,761.82	3/4	2,119.43	3/4	2,477.04	3/4	2,834.58	3/4	3,192.09
3	37.39	3	344.67	3	696.94	3	1,054.09	3	1,411.66	3	1,769.27	3	2,126.88	3	2,484.49	3	2,842.03	3	3,199.54
1/4	42.87	1/4	351.68	1/4	704.39	1/4	1,061.53	1/4	1,419.11	1/4	1,776.72	1/4	2,134.33	1/4	2,491.94	1/4	2,849.48	1/4	3,206.99
1/2	48.35	1/2	358.69	1/2	711.84	1/2	1,068.98	1/2	1,426.56	1/2	1,784.17	1/2	2,141.78	1/2	2,499.39	1/2	2,856.93	1/2	3,214.44
3/4	53.83	3/4	365.71	3/4	719.29	3/4	1,076.42	3/4	1,434.01	3/4	1,791.62	3/4	2,149.23	3/4	2,506.84	3/4	2,864.38	3/4	3,221.88
4	59.31	4	372.72	4	726.74	4	1,083.87	4	1,441.46	4	1,799.07	4	2,156.68	4	2,514.29	4	2,871.82	4	3,229.33
1/4	65.34	1/4	379.82	1/4	734.19	1/4	1,091.31	1/4	1,448.92	1/4	1,806.52	1/4	2,164.13	1/4	2,521.74	1/4	2,879.27	1/4	3,236.78
1/2	71.36	1/2	386.92	1/2	741.64	1/2	1,098.76	1/2	1,456.37	1/2	1,813.97	1/2	2,171.58	1/2	2,529.19	1/2	2,886.72	1/2	3,244.23
3/4	77.39	3/4	394.02	3/4	749.09	3/4	1,106.21	3/4	1,463.82	3/4	1,821.43	3/4	2,179.03	3/4	2,536.64	3/4	2,894.17	3/4	3,251.68
5	83.42	5	401.12	5	756.54	5	1,113.66	5	1,471.27	5	1,828.88	5	2,186.48	5	2,544.09	5	2,901.62	5	3,259.12
1/4	89.55	1/4	408.31	1/4	763.99	1/4	1,121.11	1/4	1,478.72	1/4	1,836.33	1/4	2,193.94	1/4	2,551.54	1/4	2,909.06	1/4	3,266.57
1/2	95.68	1/2	415.50	1/2	771.44	1/2	1,128.56	1/2	1,486.17	1/2	1,843.78	1/2	2,201.39	1/2	2,558.99	1/2	2,916.51	1/2	3,274.02
3/4	101.82	3/4	422.68	3/4	778.90	3/4	1,136.01	3/4	1,493.62	3/4	1,851.23	3/4	2,208.84	3/4	2,566.45	3/4	2,923.96	3/4	3,281.47
6	107.95	6	429.87	6	786.35	6	1,143.46	6	1,501.07	6	1,858.68	6	2,216.29	6	2,573.90	6	2,931.41	6	3,288.92
1/4	114.17	1/4	437.15	1/4	793.79	1/4	1,150.91	1/4	1,508.52	1/4	1,866.13	1/4	2,223.74	1/4	2,581.34	1/4	2,938.86	1/4	3,296.37
1/2	120.40	1/2	444.42	1/2	801.23	1/2	1,158.36	1/2	1,515.97	1/2	1,873.58	1/2	2,231.19	1/2	2,588.79	1/2	2,946.30	1/2	3,303.81
3/4	126.62	3/4	451.70	3/4	808.67	3/4	1,165.81	3/4	1,523.42	3/4	1,881.03	3/4	2,238.64	3/4	2,596.24	3/4	2,953.75	3/4	3,311.26
7	132.85	7	458.97	7	816.12	7	1,173.26	7	1,530.87	7	1,888.48	7	2,246.09	7	2,603.69	7	2,961.20	7	3,318.71
1/4	139.16	1/4	466.34	1/4	823.55	1/4	1,180.71	1/4	1,538.32	1/4	1,895.93	1/4	2,253.54	1/4	2,611.14	1/4	2,968.65	1/4	3,326.16
1/2	145.48	1/2	473.70	1/2	830.99	1/2	1,188.16	1/2	1,545.77	1/2	1,903.38	1/2	2,260.99	1/2	2,618.59	1/2	2,976.10	1/2	3,333.61
3/4	151.79	3/4	481.06	3/4	838.43	3/4	1,195.61	3/4	1,553.22	3/4	1,910.83	3/4	2,268.44	3/4	2,626.04	3/4	2,983.55	3/4	3,341.05
8	158.10	8	488.42	8	845.86	8	1,203.06	8	1,560.67	8	1,918.28	8	2,275.89	8	2,633.48	8	2,990.99	8	3,348.50
1/4	164.50	1/4	495.85	1/4	853.30	1/4	1,210.51	1/4	1,568.12	1/4	1,925.73	1/4	2,283.34	1/4	2,640.93	1/4	2,998.44	1/4	3,355.95
1/2	170.90	1/2	503.28	1/2	860.73	1/2	1,217.96	1/2	1,575.57	1/2	1,933.18	1/2	2,290.79	1/2	2,648.38	1/2	3,005.89	1/2	3,363.40
3/4	177.30	3/4	510.71	3/4	868.17	3/4	1,225.41	3/4	1,583.02	3/4	1,940.63	3/4	2,298.24	3/4	2,655.83	3/4	3,013.34	3/4	3,370.85
9	183.70	9	518.14	9	875.61	9	1,232.86	9	1,590.47	9	1,948.08	9	2,305.69	9	2,663.28	9	3,020.79	9	3,378.29
1/4	190.19	1/4	525.59	1/4	883.04	1/4	1,240.31	1/4	1,597.92	1/4	1,955.53	1/4	2,313.14	1/4	2,670.72	1/4	3,028.23	1/4	3,385.74
1/2	196.68	1/2	533.04	1/2	890.48	1/2	1,247.76	1/2	1,605.37	1/2	1,962.98	1/2	2,320.59	1/2	2,678.17	1/2	3,035.68	1/2	3,393.19
3/4	203.17	3/4	540.49	3/4	897.91	3/4	1,255.21	3/4	1,612.82	3/4	1,970.43	3/4	2,328.04	3/4	2,685.62	3/4	3,043.13	3/4	3,400.64
10	209.66	10	547.94	10	905.35	10	1,262.66	10	1,620.27	10	1,977.88	10	2,335.49	10	2,693.07	10	3,050.58	10	3,408.09
1/4	216.23	1/4	555.39	1/4	912.79	1/4	1,270.11	1/4	1,627.72	1/4	1,985.33	1/4	2,342.94	1/4	2,700.52	1/4	3,058.03	1/4	3,415.53
1/2	222.81	1/2	562.84	1/2	920.22	1/2	1,277.56	1/2	1,635.17	1/2	1,992.78	1/2	2,350.39	1/2	2,707.97	1/2	3,065.47	1/2	3,422.98
3/4	229.38	3/4	570.29	3/4	927.66	3/4	1,285.01	3/4	1,642.62	3/4	2,000.23	3/4	2,357.84	3/4	2,715.41	3/4	3,072.92	3/4	3,430.43
11	235.96	11	577.74	11	935.09	11	1,292.46	11	1,650.07	11	2,007.68	11	2,365.29	11	2,722.86	11	3,080.37	11	3,437.88
1/4	242.62	1/4	585.19	1/4	942.53	1/4	1,299.91	1/4	1,657.52	1/4	2,015.13	1/4	2,372.74	1/4	2,730.31	1/4	3,087.82	1/4	3,445.33
1/2	249.29	1/2	592.64	1/2	949.97	1/2	1,307.36	1/2	1,664.97	1/2	2,022.58	1/2	2,380.19	1/2	2,737.76	1/2	3,095.27	1/2	3,452.78
3/4	255.95	3/4	600.09	3/4	957.40	3/4	1,314.81	3/4	1,672.42	3/4	2,030.03	3/4	2,387.64	3/4	2,745.21	3/4	3,102.71	3/4	3,460.22

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME.
 GAUGE POINT: (10" HATCH) LOCATED 3'-00" OFF CENTERLINE AND 3'-00" FORWARD OF AFT BULKHEAD.

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



BARGE "E2MS 311"

1 STBD

INNAGE TABLE

10" HATCH

GAUGE HEIGHT 17'-06 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,467.67	0	3,825.18	0	4,182.13	0	4,538.59	0	4,893.74	0		0		0		0		0	
1/4	3,475.12	1/4	3,832.63	1/4	4,189.55	1/4	4,546.02	1/4	4,901.08	1/4		1/4	1/4	1/4	1/4		1/4	1/4	1/4
1/2	3,482.57	1/2	3,840.08	1/2	4,196.98	1/2	4,553.45	1/2	4,908.43	1/2		1/2	1/2	1/2	1/2		1/2	1/2	1/2
3/4	3,490.02	3/4	3,847.52	3/4	4,204.41	3/4	4,560.87	3/4	4,915.77	3/4		3/4	3/4	3/4	3/4		3/4	3/4	3/4
1	3,497.46	1	3,854.97	1	4,211.83	1	4,568.30	1	4,923.12	1		1		1		1		1	
1/4	3,504.91	1/4	3,862.42	1/4	4,219.26	1/4	4,575.73	1/4	4,930.43	1/4		1/4	1/4	1/4	1/4		1/4	1/4	1/4
1/2	3,512.36	1/2	3,869.87	1/2	4,226.68	1/2	4,583.15	1/2	4,937.74	1/2		1/2	1/2	1/2	1/2		1/2	1/2	1/2
3/4	3,519.81	3/4	3,877.32	3/4	4,234.11	3/4	4,590.58	3/4	4,945.06	3/4		3/4	3/4	3/4	3/4		3/4	3/4	3/4
2	3,527.26	2	3,884.77	2	4,241.54	2	4,598.00	2	4,952.37	2		2		2		2		2	
1/4	3,534.70	1/4	3,892.21	1/4	4,248.96	1/4	4,605.43	1/4	4,959.22	1/4		1/4	1/4	1/4	1/4		1/4	1/4	1/4
1/2	3,542.15	1/2	3,899.66	1/2	4,256.39	1/2	4,612.86	1/2	4,966.08	1/2		1/2	1/2	1/2	1/2		1/2	1/2	1/2
3/4	3,549.60	3/4	3,907.11	3/4	4,263.82	3/4	4,620.28	3/4	4,972.93	3/4		3/4	3/4	3/4	3/4		3/4	3/4	3/4
3	3,557.05	3	3,914.56	3	4,271.24	3	4,627.71	3	4,979.78	3		3		3		3		3	
1/4	3,564.50	1/4	3,922.01	1/4	4,278.67	1/4	4,635.14	1/4	4,985.59	1/4		1/4	1/4	1/4	1/4		1/4	1/4	1/4
1/2	3,571.95	1/2	3,929.45	1/2	4,286.10	1/2	4,642.56	1/2	4,991.39	1/2		1/2	1/2	1/2	1/2		1/2	1/2	1/2
3/4	3,579.39	3/4	3,936.90	3/4	4,293.52	3/4	4,649.99	3/4	4,997.19	3/4		3/4	3/4	3/4	3/4		3/4	3/4	3/4
4	3,586.84	4	3,944.35	4	4,300.95	4	4,657.42	4	5,002.99	4		4		4		4		4	
1/4	3,594.29	1/4	3,951.80	1/4	4,308.37	1/4	4,664.84	1/4	5,007.56	1/4		1/4	1/4	1/4	1/4		1/4	1/4	1/4
1/2	3,601.74	1/2	3,959.25	1/2	4,315.80	1/2	4,672.27	1/2	5,012.12	1/2		1/2	1/2	1/2	1/2		1/2	1/2	1/2
3/4	3,609.19	3/4	3,966.69	3/4	4,323.23	3/4	4,679.69	3/4	5,016.68	3/4		3/4	3/4	3/4	3/4		3/4	3/4	3/4
5	3,616.63	5	3,974.14	5	4,330.65	5	4,687.12	5	5,021.24	5		5		5		5		5	
1/4	3,624.08	1/4	3,981.58	1/4	4,338.08	1/4	4,694.55	1/4	5,024.56	1/4		1/4	1/4	1/4	1/4		1/4	1/4	1/4
1/2	3,631.53	1/2	3,989.02	1/2	4,345.51	1/2	4,701.97	1/2	5,027.88	1/2		1/2	1/2	1/2	1/2		1/2	1/2	1/2
3/4	3,638.98	3/4	3,996.45	3/4	4,352.93	3/4	4,709.40	3/4	5,031.19	3/4		3/4	3/4	3/4	3/4		3/4	3/4	3/4
6	3,646.43	6	4,003.89	6	4,360.36	6	4,716.83	6	5,034.51	6		6		6		6		6	
1/4	3,653.87	1/4	4,011.32	1/4	4,367.79	1/4	4,724.25	1/4	5,036.59	1/4		1/4	1/4	1/4	1/4		1/4	1/4	1/4
1/2	3,661.32	1/2	4,018.75	1/2	4,375.21	1/2	4,731.68	1/2	5,038.67	1/2		1/2	1/2	1/2	1/2		1/2	1/2	1/2
3/4	3,668.77	3/4	4,026.17	3/4	4,382.64	3/4	4,739.11	3/4	5,040.75	3/4		3/4	3/4	3/4	3/4		3/4	3/4	3/4
7	3,676.22	7	4,033.60	7	4,390.07	7	4,746.53	7	5,042.82	7		7		7		7		7	
1/4	3,683.67	1/4	4,041.02	1/4	4,397.49	1/4	4,753.92	1/4		1/4		1/4	1/4	1/4	1/4		1/4	1/4	1/4
1/2	3,691.11	1/2	4,048.45	1/2	4,404.92	1/2	4,761.31	1/2		1/2		1/2	1/2	1/2	1/2		1/2	1/2	1/2
3/4	3,698.56	3/4	4,055.88	3/4	4,412.34	3/4	4,768.70	3/4		3/4		3/4	3/4	3/4	3/4		3/4	3/4	3/4
8	3,706.01	8	4,063.30	8	4,419.77	8	4,776.09	8		8		8		8		8		8	
1/4	3,713.46	1/4	4,070.73	1/4	4,427.20	1/4	4,783.44	1/4		1/4		1/4	1/4	1/4	1/4		1/4	1/4	1/4
1/2	3,720.91	1/2	4,078.16	1/2	4,434.62	1/2	4,790.80	1/2		1/2		1/2	1/2	1/2	1/2		1/2	1/2	1/2
3/4	3,728.36	3/4	4,085.58	3/4	4,442.05	3/4	4,798.15	3/4		3/4		3/4	3/4	3/4	3/4		3/4	3/4	3/4
9	3,735.80	9	4,093.01	9	4,449.48	9	4,805.50	9		9		9		9		9		9	
1/4	3,743.25	1/4	4,100.44	1/4	4,456.90	1/4	4,812.85	1/4		1/4		1/4	1/4	1/4	1/4		1/4	1/4	1/4
1/2	3,750.70	1/2	4,107.86	1/2	4,464.33	1/2	4,820.21	1/2		1/2		1/2	1/2	1/2	1/2		1/2	1/2	1/2
3/4	3,758.15	3/4	4,115.29	3/4	4,471.76	3/4	4,827.56	3/4		3/4		3/4	3/4	3/4	3/4		3/4	3/4	3/4
10	3,765.60	10	4,122.71	10	4,479.18	10	4,834.91	10		10		10		10		10		10	
1/4	3,773.04	1/4	4,130.14	1/4	4,486.61	1/4	4,842.27	1/4		1/4		1/4	1/4	1/4	1/4		1/4	1/4	1/4
1/2	3,780.49	1/2	4,137.57	1/2	4,494.03	1/2	4,849.62	1/2		1/2		1/2	1/2	1/2	1/2		1/2	1/2	1/2
3/4	3,787.94	3/4	4,144.99	3/4	4,501.46	3/4	4,856.97	3/4		3/4		3/4	3/4	3/4	3/4		3/4	3/4	3/4
11	3,795.39	11	4,152.42	11	4,508.89	11	4,864.33	11		11		11		11		11		11	
1/4	3,802.84	1/4	4,159.85	1/4	4,516.31	1/4	4,871.68	1/4		1/4		1/4	1/4	1/4	1/4		1/4	1/4	1/4
1/2	3,810.28	1/2	4,167.27	1/2	4,523.74	1/2	4,879.03	1/2		1/2		1/2	1/2	1/2	1/2		1/2	1/2	1/2
3/4	3,817.73	3/4	4,174.70	3/4	4,531.17	3/4	4,886.38	3/4		3/4		3/4	3/4	3/4	3/4		3/4	3/4	3/4

STRAPPED: 07/18/2018 CL
 CALCULATED: 07/19/2018 CL
 PRINTED: 07/20/2018 SW

CANCELS AND SUPERCEDES
 ALL PRIOR TO 07/2018

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77588
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BARGE "E2MS 311"

2 PORT INNAGE TABLE

10" HATCH GAUGE HEIGHT 17'-06 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	2.23	0	314.03	0	672.72	0	1,023.54	0	1,375.66	0	1,734.36	0	2,093.06	0	2,451.75	0	2,810.45	0	3,169.15
1/4	4.10	1/4	321.50	1/4	680.20	1/4	1,030.71	1/4	1,383.13	1/4	1,741.83	1/4	2,100.53	1/4	2,459.23	1/4	2,817.93	1/4	3,176.63
1/2	5.97	1/2	328.97	1/2	687.67	1/2	1,037.87	1/2	1,390.60	1/2	1,749.30	1/2	2,108.00	1/2	2,466.70	1/2	2,825.40	1/2	3,184.10
3/4	7.84	3/4	336.44	3/4	695.14	3/4	1,045.04	3/4	1,398.08	3/4	1,756.78	3/4	2,115.47	3/4	2,474.17	3/4	2,832.87	3/4	3,191.57
1	9.71	1	343.92	1	702.62	1	1,052.21	1	1,405.55	1	1,764.25	1	2,122.95	1	2,481.65	1	2,840.35	1	3,199.04
1/4	13.44	1/4	351.39	1/4	710.09	1/4	1,059.37	1/4	1,413.02	1/4	1,771.72	1/4	2,130.42	1/4	2,489.12	1/4	2,847.82	1/4	3,206.52
1/2	17.18	1/2	358.86	1/2	717.56	1/2	1,066.54	1/2	1,420.49	1/2	1,779.19	1/2	2,137.89	1/2	2,496.59	1/2	2,855.29	1/2	3,213.99
3/4	20.91	3/4	366.34	3/4	725.03	3/4	1,073.70	3/4	1,427.97	3/4	1,786.67	3/4	2,145.37	3/4	2,504.07	3/4	2,862.76	3/4	3,221.46
2	24.65	2	373.81	2	732.51	2	1,080.87	2	1,435.44	2	1,794.14	2	2,152.84	2	2,511.54	2	2,870.24	2	3,228.94
1/4	30.26	1/4	381.28	1/4	739.98	1/4	1,088.04	1/4	1,442.91	1/4	1,801.61	1/4	2,160.31	1/4	2,519.01	1/4	2,877.71	1/4	3,236.41
1/2	35.86	1/2	388.75	1/2	747.45	1/2	1,095.21	1/2	1,450.39	1/2	1,809.09	1/2	2,167.78	1/2	2,526.48	1/2	2,885.18	1/2	3,243.88
3/4	41.46	3/4	396.23	3/4	754.93	3/4	1,102.38	3/4	1,457.86	3/4	1,816.56	3/4	2,175.26	3/4	2,533.96	3/4	2,892.66	3/4	3,251.36
3	47.07	3	403.70	3	762.40	3	1,109.55	3	1,465.33	3	1,824.03	3	2,182.73	3	2,541.43	3	2,900.13	3	3,258.83
1/4	54.05	1/4	411.17	1/4	769.87	1/4	1,116.73	1/4	1,472.80	1/4	1,831.50	1/4	2,190.20	1/4	2,548.90	1/4	2,907.60	1/4	3,266.30
1/2	61.04	1/2	418.65	1/2	777.35	1/2	1,123.90	1/2	1,480.28	1/2	1,838.98	1/2	2,197.68	1/2	2,556.38	1/2	2,915.07	1/2	3,273.77
3/4	68.03	3/4	426.12	3/4	784.82	3/4	1,131.08	3/4	1,487.75	3/4	1,846.45	3/4	2,205.15	3/4	2,563.85	3/4	2,922.55	3/4	3,281.25
4	75.01	4	433.59	4	792.29	4	1,138.25	4	1,495.22	4	1,853.92	4	2,212.62	4	2,571.32	4	2,930.02	4	3,288.72
1/4	82.46	1/4	441.06	1/4	799.76	1/4	1,145.43	1/4	1,502.70	1/4	1,861.40	1/4	2,220.09	1/4	2,578.79	1/4	2,937.49	1/4	3,296.19
1/2	89.91	1/2	448.54	1/2	807.24	1/2	1,152.62	1/2	1,510.17	1/2	1,868.87	1/2	2,227.57	1/2	2,586.27	1/2	2,944.97	1/2	3,303.67
3/4	97.36	3/4	456.01	3/4	814.71	3/4	1,159.80	3/4	1,517.64	3/4	1,876.34	3/4	2,235.04	3/4	2,593.74	3/4	2,952.44	3/4	3,311.14
5	104.81	5	463.48	5	822.18	5	1,166.98	5	1,525.12	5	1,883.81	5	2,242.51	5	2,601.21	5	2,959.91	5	3,318.61
1/4	112.28	1/4	470.96	1/4	829.51	1/4	1,174.31	1/4	1,532.59	1/4	1,891.29	1/4	2,249.99	1/4	2,608.69	1/4	2,967.38	1/4	3,326.08
1/2	119.75	1/2	478.43	1/2	836.84	1/2	1,181.64	1/2	1,540.06	1/2	1,898.76	1/2	2,257.46	1/2	2,616.16	1/2	2,974.86	1/2	3,333.56
3/4	127.21	3/4	485.90	3/4	844.17	3/4	1,188.98	3/4	1,547.53	3/4	1,906.23	3/4	2,264.93	3/4	2,623.63	3/4	2,982.33	3/4	3,341.03
6	134.68	6	493.38	6	851.50	6	1,196.31	6	1,555.01	6	1,913.71	6	2,272.41	6	2,631.10	6	2,989.80	6	3,348.50
1/4	142.15	1/4	500.85	1/4	858.68	1/4	1,203.78	1/4	1,562.48	1/4	1,921.18	1/4	2,279.88	1/4	2,638.58	1/4	2,997.28	1/4	3,355.98
1/2	149.62	1/2	508.32	1/2	865.86	1/2	1,211.25	1/2	1,569.95	1/2	1,928.65	1/2	2,287.35	1/2	2,646.05	1/2	3,004.75	1/2	3,363.45
3/4	157.10	3/4	515.79	3/4	873.04	3/4	1,218.73	3/4	1,577.43	3/4	1,936.12	3/4	2,294.82	3/4	2,653.52	3/4	3,012.22	3/4	3,370.92
7	164.57	7	523.27	7	880.22	7	1,226.20	7	1,584.90	7	1,943.60	7	2,302.30	7	2,661.00	7	3,019.70	7	3,378.39
1/4	172.04	1/4	530.74	1/4	887.38	1/4	1,233.67	1/4	1,592.37	1/4	1,951.07	1/4	2,309.77	1/4	2,668.47	1/4	3,027.17	1/4	3,385.87
1/2	179.51	1/2	538.21	1/2	894.55	1/2	1,241.14	1/2	1,599.84	1/2	1,958.54	1/2	2,317.24	1/2	2,675.94	1/2	3,034.64	1/2	3,393.34
3/4	186.99	3/4	545.69	3/4	901.72	3/4	1,248.62	3/4	1,607.32	3/4	1,966.02	3/4	2,324.72	3/4	2,683.41	3/4	3,042.11	3/4	3,400.81
8	194.46	8	553.16	8	908.88	8	1,256.09	8	1,614.79	8	1,973.49	8	2,332.19	8	2,690.89	8	3,049.59	8	3,408.29
1/4	201.93	1/4	560.63	1/4	916.05	1/4	1,263.56	1/4	1,622.26	1/4	1,980.96	1/4	2,339.66	1/4	2,698.36	1/4	3,057.06	1/4	3,415.76
1/2	209.40	1/2	568.10	1/2	923.21	1/2	1,271.04	1/2	1,629.74	1/2	1,988.43	1/2	2,347.13	1/2	2,705.83	1/2	3,064.53	1/2	3,423.23
3/4	216.88	3/4	575.58	3/4	930.38	3/4	1,278.51	3/4	1,637.21	3/4	1,995.91	3/4	2,354.61	3/4	2,713.31	3/4	3,072.01	3/4	3,430.70
9	224.35	9	583.05	9	937.55	9	1,285.98	9	1,644.68	9	2,003.38	9	2,362.08	9	2,720.78	9	3,079.48	9	3,438.18
1/4	231.82	1/4	590.52	1/4	944.71	1/4	1,293.46	1/4	1,652.15	1/4	2,010.85	1/4	2,369.55	1/4	2,728.25	1/4	3,086.95	1/4	3,445.65
1/2	239.30	1/2	598.00	1/2	951.88	1/2	1,300.93	1/2	1,659.63	1/2	2,018.33	1/2	2,377.03	1/2	2,735.72	1/2	3,094.42	1/2	3,453.12
3/4	246.77	3/4	605.47	3/4	959.04	3/4	1,308.40	3/4	1,667.10	3/4	2,025.80	3/4	2,384.50	3/4	2,743.20	3/4	3,101.90	3/4	3,460.60
10	254.24	10	612.94	10	966.21	10	1,315.87	10	1,674.57	10	2,033.27	10	2,391.97	10	2,750.67	10	3,109.37	10	3,468.07
1/4	261.72	1/4	620.41	1/4	973.38	1/4	1,323.35	1/4	1,682.05	1/4	2,040.75	1/4	2,399.44	1/4	2,758.14	1/4	3,116.84	1/4	3,475.54
1/2	269.19	1/2	627.89	1/2	980.54	1/2	1,330.82	1/2	1,689.52	1/2	2,048.22	1/2	2,406.92	1/2	2,765.62	1/2	3,124.32	1/2	3,483.01
3/4	276.66	3/4	635.36	3/4	987.71	3/4	1,338.29	3/4	1,696.99	3/4	2,055.69	3/4	2,414.39	3/4	2,773.09	3/4	3,131.79	3/4	3,490.49
11	284.13	11	642.83	11	994.88	11	1,345.77	11	1,704.46	11	2,063.16	11	2,421.86	11	2,780.56	11	3,139.26	11	3,497.96
1/4	291.61	1/4	650.31	1/4	1,002.04	1/4	1,353.24	1/4	1,711.94	1/4	2,070.64	1/4	2,429.34	1/4	2,788.04	1/4	3,146.73	1/4	3,505.43
1/2	299.08	1/2	657.78	1/2	1,009.21	1/2	1,360.71	1/2	1,719.41	1/2	2,078.11	1/2	2,436.81	1/2	2,795.51	1/2	3,154.21	1/2	3,512.91
3/4	306.55	3/4	665.25	3/4	1,016.37	3/4	1,368.18	3/4	1,726.88	3/4	2,085.58	3/4	2,444.28	3/4	2,802.98	3/4	3,161.68	3/4	3,520.38

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 LIP 10" HATCH ON EXPANSION DOME.
 GAUGE POINT: (10" HATCH) LOCATED 3'-00" OFF CENTERLINE AND 3'-00" FORWARD OF AFT BULKHEAD.

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



BARGE "E2MS 311"

2 PORT INNAGE TABLE 10" HATCH GAUGE HEIGHT 17'-06 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,527.85	0	3,886.55	0	4,244.66	0	4,602.31	0	4,958.77	0		0		0		0		0	
1/4	3,535.33	1/4	3,894.02	1/4	4,252.11	1/4	4,609.76	1/4	4,966.14	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,542.80	1/2	3,901.50	1/2	4,259.56	1/2	4,617.21	1/2	4,973.52	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,550.27	3/4	3,908.97	3/4	4,267.01	3/4	4,624.66	3/4	4,980.89	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	3,557.74	1	3,916.44	1	4,274.46	1	4,632.11	1	4,988.27	1		1		1		1		1	
1/4	3,565.22	1/4	3,923.92	1/4	4,281.91	1/4	4,639.56	1/4	4,995.61	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,572.69	1/2	3,931.39	1/2	4,289.36	1/2	4,647.01	1/2	5,002.95	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,580.16	3/4	3,938.86	3/4	4,296.81	3/4	4,654.47	3/4	5,010.30	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	3,587.64	2	3,946.33	2	4,304.26	2	4,661.92	2	5,017.64	2		2		2		2		2	
1/4	3,595.11	1/4	3,953.81	1/4	4,311.72	1/4	4,669.37	1/4	5,024.52	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,602.58	1/2	3,961.28	1/2	4,319.17	1/2	4,676.82	1/2	5,031.40	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,610.05	3/4	3,968.75	3/4	4,326.62	3/4	4,684.27	3/4	5,038.29	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	3,617.53	3	3,976.23	3	4,334.07	3	4,691.72	3	5,045.17	3		3		3		3		3	
1/4	3,625.00	1/4	3,983.70	1/4	4,341.52	1/4	4,699.17	1/4	5,051.00	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,632.47	1/2	3,991.17	1/2	4,348.97	1/2	4,706.62	1/2	5,056.82	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,639.95	3/4	3,998.65	3/4	4,356.42	3/4	4,714.07	3/4	5,062.65	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	3,647.42	4	4,006.12	4	4,363.87	4	4,721.53	4	5,068.48	4		4		4		4		4	
1/4	3,654.89	1/4	4,013.59	1/4	4,371.32	1/4	4,728.98	1/4	5,073.06	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,662.36	1/2	4,021.06	1/2	4,378.78	1/2	4,736.43	1/2	5,077.65	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,669.84	3/4	4,028.54	3/4	4,386.23	3/4	4,743.88	3/4	5,082.23	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	3,677.31	5	4,036.01	5	4,393.68	5	4,751.33	5	5,086.81	5		5		5		5		5	
1/4	3,684.78	1/4	4,043.46	1/4	4,401.13	1/4	4,758.78	1/4	5,090.15	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,692.26	1/2	4,050.92	1/2	4,408.58	1/2	4,766.23	1/2	5,093.48	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,699.73	3/4	4,058.37	3/4	4,416.03	3/4	4,773.68	3/4	5,096.82	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	3,707.20	6	4,065.83	6	4,423.48	6	4,781.13	6	5,100.16	6		6		6		6		6	
1/4	3,714.67	1/4	4,073.28	1/4	4,430.93	1/4	4,788.59	1/4	5,102.25	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,722.15	1/2	4,080.73	1/2	4,438.38	1/2	4,796.04	1/2	5,104.34	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,729.62	3/4	4,088.18	3/4	4,445.84	3/4	4,803.49	3/4	5,106.43	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	3,737.09	7	4,095.63	7	4,453.29	7	4,810.94	7	5,108.52	7		7		7		7		7	
1/4	3,744.57	1/4	4,103.08	1/4	4,460.74	1/4	4,818.36	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,752.04	1/2	4,110.54	1/2	4,468.19	1/2	4,825.78	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,759.51	3/4	4,117.99	3/4	4,475.64	3/4	4,833.20	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	3,766.99	8	4,125.44	8	4,483.09	8	4,840.61	8		8		8		8		8		8	
1/4	3,774.46	1/4	4,132.89	1/4	4,490.54	1/4	4,848.00	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,781.93	1/2	4,140.34	1/2	4,497.99	1/2	4,855.38	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,789.40	3/4	4,147.79	3/4	4,505.44	3/4	4,862.77	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	3,796.88	9	4,155.24	9	4,512.90	9	4,870.15	9		9		9		9		9		9	
1/4	3,804.35	1/4	4,162.69	1/4	4,520.35	1/4	4,877.54	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,811.82	1/2	4,170.14	1/2	4,527.80	1/2	4,884.92	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,819.30	3/4	4,177.60	3/4	4,535.25	3/4	4,892.31	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	3,826.77	10	4,185.05	10	4,542.70	10	4,899.69	10		10		10		10		10		10	
1/4	3,834.24	1/4	4,192.50	1/4	4,550.15	1/4	4,907.08	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,841.71	1/2	4,199.95	1/2	4,557.60	1/2	4,914.46	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,849.19	3/4	4,207.40	3/4	4,565.05	3/4	4,921.85	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	3,856.66	11	4,214.85	11	4,572.50	11	4,929.23	11		11		11		11		11		11	
1/4	3,864.13	1/4	4,222.30	1/4	4,579.96	1/4	4,936.62	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,871.61	1/2	4,229.75	1/2	4,587.41	1/2	4,944.00	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,879.08	3/4	4,237.20	3/4	4,594.86	3/4	4,951.38	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: 07/18/2018 CL
CALCULATED: 07/19/2018 CL
PRINTED: 07/20/2018 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2018

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "E2MS 311"

2 STBD INNAGE TABLE

10" HATCH GAUGE HEIGHT 17'-06 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	2.23	0	314.14	0	672.97	0	1,031.48	0	1,390.12	0	1,748.95	0	2,107.78	0	2,466.61	0	2,825.38	0	3,184.11
1/4	4.10	1/4	321.62	1/4	680.44	1/4	1,038.94	1/4	1,397.60	1/4	1,756.43	1/4	2,115.26	1/4	2,474.08	1/4	2,832.85	1/4	3,191.58
1/2	5.97	1/2	329.09	1/2	687.92	1/2	1,046.40	1/2	1,405.07	1/2	1,763.90	1/2	2,122.73	1/2	2,481.56	1/2	2,840.33	1/2	3,199.06
3/4	7.84	3/4	336.57	3/4	695.40	3/4	1,053.86	3/4	1,412.55	3/4	1,771.38	3/4	2,130.21	3/4	2,489.04	3/4	2,847.80	3/4	3,206.53
1	9.71	1	344.04	1	702.87	1	1,061.33	1	1,420.02	1	1,778.85	1	2,137.68	1	2,496.51	1	2,855.28	1	3,214.00
1/4	13.45	1/4	351.52	1/4	710.35	1/4	1,068.79	1/4	1,427.50	1/4	1,786.33	1/4	2,145.16	1/4	2,503.99	1/4	2,862.75	1/4	3,221.48
1/2	17.18	1/2	358.99	1/2	717.82	1/2	1,076.25	1/2	1,434.98	1/2	1,793.80	1/2	2,152.63	1/2	2,511.46	1/2	2,870.22	1/2	3,228.95
3/4	20.92	3/4	366.47	3/4	725.30	3/4	1,083.71	3/4	1,442.45	3/4	1,801.28	3/4	2,160.11	3/4	2,518.94	3/4	2,877.70	3/4	3,236.42
2	24.66	2	373.94	2	732.77	2	1,091.17	2	1,449.93	2	1,808.76	2	2,167.58	2	2,526.41	2	2,885.17	2	3,243.90
1/4	30.27	1/4	381.42	1/4	740.25	1/4	1,098.64	1/4	1,457.40	1/4	1,816.23	1/4	2,175.06	1/4	2,533.89	1/4	2,892.64	1/4	3,251.37
1/2	35.87	1/2	388.90	1/2	747.72	1/2	1,106.10	1/2	1,464.88	1/2	1,823.71	1/2	2,182.54	1/2	2,541.36	1/2	2,900.12	1/2	3,258.84
3/4	41.48	3/4	396.37	3/4	755.20	3/4	1,113.57	3/4	1,472.35	3/4	1,831.18	3/4	2,190.01	3/4	2,548.84	3/4	2,907.59	3/4	3,266.32
3	47.08	3	403.85	3	762.68	3	1,121.03	3	1,479.83	3	1,838.66	3	2,197.49	3	2,556.32	3	2,915.06	3	3,273.79
1/4	54.07	1/4	411.32	1/4	770.15	1/4	1,128.50	1/4	1,487.31	1/4	1,846.13	1/4	2,204.96	1/4	2,563.79	1/4	2,922.54	1/4	3,281.26
1/2	61.06	1/2	418.80	1/2	777.63	1/2	1,135.97	1/2	1,494.78	1/2	1,853.61	1/2	2,212.44	1/2	2,571.27	1/2	2,930.01	1/2	3,288.74
3/4	68.05	3/4	426.27	3/4	785.10	3/4	1,143.44	3/4	1,502.26	3/4	1,861.09	3/4	2,219.91	3/4	2,578.74	3/4	2,937.48	3/4	3,296.21
4	75.04	4	433.75	4	792.58	4	1,150.91	4	1,509.73	4	1,868.56	4	2,227.39	4	2,586.22	4	2,944.96	4	3,303.69
1/4	82.49	1/4	441.22	1/4	800.05	1/4	1,158.39	1/4	1,517.21	1/4	1,876.04	1/4	2,234.87	1/4	2,593.69	1/4	2,952.43	1/4	3,311.16
1/2	89.95	1/2	448.70	1/2	807.53	1/2	1,165.86	1/2	1,524.68	1/2	1,883.51	1/2	2,242.34	1/2	2,601.17	1/2	2,959.90	1/2	3,318.63
3/4	97.40	3/4	456.18	3/4	815.00	3/4	1,173.33	3/4	1,532.16	3/4	1,890.99	3/4	2,249.82	3/4	2,608.65	3/4	2,967.38	3/4	3,326.11
5	104.85	5	463.65	5	822.48	5	1,180.81	5	1,539.63	5	1,898.46	5	2,257.29	5	2,616.12	5	2,974.85	5	3,333.58
1/4	112.32	1/4	471.13	1/4	829.96	1/4	1,188.28	1/4	1,547.11	1/4	1,905.94	1/4	2,264.77	1/4	2,623.60	1/4	2,982.32	1/4	3,341.05
1/2	119.79	1/2	478.60	1/2	837.43	1/2	1,195.76	1/2	1,554.59	1/2	1,913.41	1/2	2,272.24	1/2	2,631.07	1/2	2,989.80	1/2	3,348.53
3/4	127.26	3/4	486.08	3/4	844.91	3/4	1,203.23	3/4	1,562.06	3/4	1,920.89	3/4	2,279.72	3/4	2,638.55	3/4	2,997.27	3/4	3,356.00
6	134.73	6	493.55	6	852.38	6	1,210.71	6	1,569.54	6	1,928.37	6	2,287.19	6	2,646.02	6	3,004.75	6	3,363.47
1/4	142.20	1/4	501.03	1/4	859.85	1/4	1,218.18	1/4	1,577.01	1/4	1,935.84	1/4	2,294.67	1/4	2,653.50	1/4	3,012.22	1/4	3,370.95
1/2	149.68	1/2	508.51	1/2	867.32	1/2	1,225.66	1/2	1,584.49	1/2	1,943.32	1/2	2,302.15	1/2	2,660.97	1/2	3,019.69	1/2	3,378.42
3/4	157.15	3/4	515.98	3/4	874.79	3/4	1,233.13	3/4	1,591.96	3/4	1,950.79	3/4	2,309.62	3/4	2,668.44	3/4	3,027.17	3/4	3,385.89
7	164.63	7	523.46	7	882.25	7	1,240.61	7	1,599.44	7	1,958.27	7	2,317.10	7	2,675.91	7	3,034.64	7	3,393.37
1/4	172.10	1/4	530.93	1/4	889.71	1/4	1,248.09	1/4	1,606.91	1/4	1,965.74	1/4	2,324.57	1/4	2,683.38	1/4	3,042.11	1/4	3,400.84
1/2	179.58	1/2	538.41	1/2	897.18	1/2	1,255.56	1/2	1,614.39	1/2	1,973.22	1/2	2,332.05	1/2	2,690.86	1/2	3,049.59	1/2	3,408.31
3/4	187.05	3/4	545.88	3/4	904.64	3/4	1,263.04	3/4	1,621.87	3/4	1,980.69	3/4	2,339.52	3/4	2,698.33	3/4	3,057.06	3/4	3,415.79
8	194.53	8	553.36	8	912.10	8	1,270.51	8	1,629.34	8	1,988.17	8	2,347.00	8	2,705.81	8	3,064.53	8	3,423.26
1/4	202.01	1/4	560.83	1/4	919.56	1/4	1,277.99	1/4	1,636.82	1/4	1,995.65	1/4	2,354.47	1/4	2,713.28	1/4	3,072.01	1/4	3,430.73
1/2	209.48	1/2	568.31	1/2	927.02	1/2	1,285.46	1/2	1,644.29	1/2	2,003.12	1/2	2,361.95	1/2	2,720.75	1/2	3,079.48	1/2	3,438.21
3/4	216.96	3/4	575.79	3/4	934.48	3/4	1,292.94	3/4	1,651.77	3/4	2,010.60	3/4	2,369.43	3/4	2,728.23	3/4	3,086.95	3/4	3,445.68
9	224.43	9	583.26	9	941.94	9	1,300.42	9	1,659.24	9	2,018.07	9	2,376.90	9	2,735.70	9	3,094.43	9	3,453.16
1/4	231.91	1/4	590.74	1/4	949.41	1/4	1,307.89	1/4	1,666.72	1/4	2,025.55	1/4	2,384.38	1/4	2,743.17	1/4	3,101.90	1/4	3,460.63
1/2	239.38	1/2	598.21	1/2	956.87	1/2	1,315.37	1/2	1,674.20	1/2	2,033.02	1/2	2,391.85	1/2	2,750.65	1/2	3,109.37	1/2	3,468.10
3/4	246.86	3/4	605.69	3/4	964.33	3/4	1,322.84	3/4	1,681.67	3/4	2,040.50	3/4	2,399.33	3/4	2,758.12	3/4	3,116.85	3/4	3,475.58
10	254.34	10	613.16	10	971.79	10	1,330.32	10	1,689.15	10	2,047.98	10	2,406.80	10	2,765.59	10	3,124.32	10	3,483.05
1/4	261.81	1/4	620.64	1/4	979.25	1/4	1,337.79	1/4	1,696.62	1/4	2,055.45	1/4	2,414.28	1/4	2,773.07	1/4	3,131.79	1/4	3,490.52
1/2	269.29	1/2	628.11	1/2	986.71	1/2	1,345.27	1/2	1,704.10	1/2	2,062.93	1/2	2,421.76	1/2	2,780.54	1/2	3,139.27	1/2	3,498.00
3/4	276.76	3/4	635.59	3/4	994.17	3/4	1,352.74	3/4	1,711.57	3/4	2,070.40	3/4	2,429.23	3/4	2,788.01	3/4	3,146.74	3/4	3,505.47
11	284.24	11	643.07	11	1,001.64	11	1,360.22	11	1,719.05	11	2,077.88	11	2,436.71	11	2,795.49	11	3,154.22	11	3,512.94
1/4	291.71	1/4	650.54	1/4	1,009.10	1/4	1,367.70	1/4	1,726.52	1/4	2,085.35	1/4	2,444.18	1/4	2,802.96	1/4	3,161.69	1/4	3,520.42
1/2	299.19	1/2	658.02	1/2	1,016.56	1/2	1,375.17	1/2	1,734.00	1/2	2,092.83	1/2	2,451.66	1/2	2,810.43	1/2	3,169.16	1/2	3,527.89
3/4	306.66	3/4	665.49	3/4	1,024.02	3/4	1,382.65	3/4	1,741.48	3/4	2,100.30	3/4	2,459.13	3/4	2,817.91	3/4	3,176.64	3/4	3,535.36

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 LIP 10" HATCH ON EXPANSION DOME.
 GAUGE POINT: (10" HATCH) LOCATED 3'-00" OFF CENTERLINE AND 3'-00" FORWARD OF AFT BULKHEAD.

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



BARGE "E2MS 311"

2 STBD

INNAGE TABLE

10" HATCH

GAUGE HEIGHT 17'-06 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,542.84	0	3,901.57	0	4,259.72	0	4,617.40	0	4,973.77	0		0		0		0		0	
1/4	3,550.31	1/4	3,909.04	1/4	4,267.17	1/4	4,624.85	1/4	4,981.14	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,557.78	1/2	3,916.51	1/2	4,274.62	1/2	4,632.30	1/2	4,988.51	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,565.26	3/4	3,923.99	3/4	4,282.07	3/4	4,639.75	3/4	4,995.89	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	3,572.73	1	3,931.46	1	4,289.53	1	4,647.21	1	5,003.26	1		1		1		1		1	
1/4	3,580.20	1/4	3,938.93	1/4	4,296.98	1/4	4,654.66	1/4	5,010.60	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,587.68	1/2	3,946.41	1/2	4,304.43	1/2	4,662.11	1/2	5,017.93	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,595.15	3/4	3,953.88	3/4	4,311.88	3/4	4,669.56	3/4	5,025.27	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	3,602.63	2	3,961.35	2	4,319.33	2	4,677.01	2	5,032.61	2		2		2		2		2	
1/4	3,610.10	1/4	3,968.83	1/4	4,326.78	1/4	4,684.47	1/4	5,039.94	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,617.57	1/2	3,976.30	1/2	4,334.24	1/2	4,691.92	1/2	5,046.36	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,625.05	3/4	3,983.77	3/4	4,341.69	3/4	4,699.37	3/4	5,053.24	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	3,632.52	3	3,991.25	3	4,349.14	3	4,706.82	3	5,060.12	3		3		3		3		3	
1/4	3,639.99	1/4	3,998.72	1/4	4,356.59	1/4	4,714.27	1/4	5,065.94	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,647.47	1/2	4,006.19	1/2	4,364.04	1/2	4,721.72	1/2	5,071.76	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,654.94	3/4	4,013.67	3/4	4,371.49	3/4	4,729.18	3/4	5,077.59	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	3,662.41	4	4,021.14	4	4,378.95	4	4,736.63	4	5,083.41	4		4		4		4		4	
1/4	3,669.89	1/4	4,028.61	1/4	4,386.40	1/4	4,744.08	1/4	5,087.99	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,677.36	1/2	4,036.09	1/2	4,393.85	1/2	4,751.53	1/2	5,092.56	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,684.83	3/4	4,043.56	3/4	4,401.30	3/4	4,758.98	3/4	5,097.14	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	3,692.31	5	4,051.04	5	4,408.75	5	4,766.43	5	5,101.72	5		5		5		5		5	
1/4	3,699.78	1/4	4,058.50	1/4	4,416.20	1/4	4,773.89	1/4	5,105.05	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,707.25	1/2	4,065.96	1/2	4,423.66	1/2	4,781.34	1/2	5,108.38	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,714.73	3/4	4,073.42	3/4	4,431.11	3/4	4,788.79	3/4	5,111.71	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	3,722.20	6	4,080.88	6	4,438.56	6	4,796.24	6	5,115.04	6		6		6		6		6	
1/4	3,729.67	1/4	4,088.33	1/4	4,446.01	1/4	4,803.69	1/4	5,117.13	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,737.15	1/2	4,095.78	1/2	4,453.46	1/2	4,811.14	1/2	5,119.21	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,744.62	3/4	4,103.23	3/4	4,460.91	3/4	4,818.60	3/4	5,121.29	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	3,752.10	7	4,110.68	7	4,468.37	7	4,826.05	7	5,123.38	7		7		7		7		7	
1/4	3,759.57	1/4	4,118.14	1/4	4,475.82	1/4	4,833.46	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,767.04	1/2	4,125.59	1/2	4,483.27	1/2	4,840.88	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,774.52	3/4	4,133.04	3/4	4,490.72	3/4	4,848.30	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	3,781.99	8	4,140.49	8	4,498.17	8	4,855.71	8		8		8		8		8		8	
1/4	3,789.46	1/4	4,147.94	1/4	4,505.62	1/4	4,863.09	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,796.94	1/2	4,155.39	1/2	4,513.08	1/2	4,870.47	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,804.41	3/4	4,162.85	3/4	4,520.53	3/4	4,877.85	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	3,811.88	9	4,170.30	9	4,527.98	9	4,885.22	9		9		9		9		9		9	
1/4	3,819.36	1/4	4,177.75	1/4	4,535.43	1/4	4,892.60	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,826.83	1/2	4,185.20	1/2	4,542.88	1/2	4,899.98	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,834.30	3/4	4,192.65	3/4	4,550.33	3/4	4,907.36	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	3,841.78	10	4,200.10	10	4,557.79	10	4,914.74	10		10		10		10		10		10	
1/4	3,849.25	1/4	4,207.56	1/4	4,565.24	1/4	4,922.12	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,856.72	1/2	4,215.01	1/2	4,572.69	1/2	4,929.50	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,864.20	3/4	4,222.46	3/4	4,580.14	3/4	4,936.87	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	3,871.67	11	4,229.91	11	4,587.59	11	4,944.25	11		11		11		11		11		11	
1/4	3,879.14	1/4	4,237.36	1/4	4,595.04	1/4	4,951.63	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,886.62	1/2	4,244.81	1/2	4,602.50	1/2	4,959.01	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,894.09	3/4	4,252.27	3/4	4,609.95	3/4	4,966.39	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: 07/18/2018 CL
 CALCULATED: 07/19/2018 CL
 PRINTED: 07/20/2018 SW

CANCELS AND SUPERCEDES
 ALL PRIOR TO 07/2018

PRECISION MEASUREMENT
 & ANALYSIS, INC.
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BARGE "E2MS 311"

3 PORT INNAGE TABLE

10" HATCH GAUGE HEIGHT 17'-07"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	2.23	0	312.94	0	669.87	0	1,018.93	0	1,370.11	0	1,726.80	0	2,082.70	0	2,439.29	0	2,795.62	0	3,151.92
1/4	4.09	1/4	320.38	1/4	677.31	1/4	1,026.07	1/4	1,377.55	1/4	1,734.23	1/4	2,090.12	1/4	2,446.71	1/4	2,803.04	1/4	3,159.34
1/2	5.95	1/2	327.82	1/2	684.74	1/2	1,033.21	1/2	1,384.98	1/2	1,741.65	1/2	2,097.53	1/2	2,454.14	1/2	2,810.47	1/2	3,166.77
3/4	7.81	3/4	335.25	3/4	692.18	3/4	1,040.35	3/4	1,392.41	3/4	1,749.07	3/4	2,104.95	3/4	2,461.56	3/4	2,817.89	3/4	3,174.19
1	9.67	1	342.69	1	699.62	1	1,047.49	1	1,399.84	1	1,756.50	1	2,112.37	1	2,468.98	1	2,825.31	1	3,181.61
1/4	13.40	1/4	350.12	1/4	707.05	1/4	1,054.63	1/4	1,407.27	1/4	1,763.91	1/4	2,119.80	1/4	2,476.41	1/4	2,832.73	1/4	3,189.02
1/2	17.12	1/2	357.56	1/2	714.49	1/2	1,061.77	1/2	1,414.70	1/2	1,771.33	1/2	2,127.22	1/2	2,483.83	1/2	2,840.16	1/2	3,196.43
3/4	20.85	3/4	365.00	3/4	721.92	3/4	1,068.91	3/4	1,422.13	3/4	1,778.74	3/4	2,134.65	3/4	2,491.26	3/4	2,847.58	3/4	3,203.84
2	24.57	2	372.43	2	729.36	2	1,076.05	2	1,429.56	2	1,786.16	2	2,142.08	2	2,498.68	2	2,855.00	2	3,211.25
1/4	30.15	1/4	379.87	1/4	736.80	1/4	1,083.23	1/4	1,436.99	1/4	1,793.57	1/4	2,149.51	1/4	2,506.10	1/4	2,862.43	1/4	3,218.64
1/2	35.74	1/2	387.30	1/2	744.23	1/2	1,090.40	1/2	1,444.42	1/2	1,800.99	1/2	2,156.93	1/2	2,513.53	1/2	2,869.85	1/2	3,226.04
3/4	41.32	3/4	394.74	3/4	751.67	3/4	1,097.58	3/4	1,451.86	3/4	1,808.40	3/4	2,164.36	3/4	2,520.95	3/4	2,877.27	3/4	3,233.43
3	46.91	3	402.18	3	759.10	3	1,104.75	3	1,459.29	3	1,815.81	3	2,171.79	3	2,528.38	3	2,884.70	3	3,240.83
1/4	53.87	1/4	409.61	1/4	766.54	1/4	1,111.96	1/4	1,466.72	1/4	1,823.23	1/4	2,179.22	1/4	2,535.80	1/4	2,892.12	1/4	3,248.22
1/2	60.84	1/2	417.05	1/2	773.98	1/2	1,119.17	1/2	1,474.15	1/2	1,830.64	1/2	2,186.64	1/2	2,543.23	1/2	2,899.54	1/2	3,255.62
3/4	67.80	3/4	424.48	3/4	781.41	3/4	1,126.38	3/4	1,481.58	3/4	1,838.06	3/4	2,194.07	3/4	2,550.65	3/4	2,906.96	3/4	3,263.01
4	74.76	4	431.92	4	788.85	4	1,133.59	4	1,489.01	4	1,845.47	4	2,201.50	4	2,558.07	4	2,914.39	4	3,270.41
1/4	82.19	1/4	439.36	1/4	796.25	1/4	1,140.81	1/4	1,496.44	1/4	1,852.89	1/4	2,208.93	1/4	2,565.50	1/4	2,921.81	1/4	3,277.80
1/2	89.61	1/2	446.79	1/2	803.66	1/2	1,148.03	1/2	1,503.87	1/2	1,860.30	1/2	2,216.35	1/2	2,572.92	1/2	2,929.23	1/2	3,285.20
3/4	97.04	3/4	454.23	3/4	811.06	3/4	1,155.24	3/4	1,511.30	3/4	1,867.72	3/4	2,223.78	3/4	2,580.35	3/4	2,936.66	3/4	3,292.59
5	104.46	5	461.66	5	818.47	5	1,162.46	5	1,518.73	5	1,875.13	5	2,231.21	5	2,587.77	5	2,944.08	5	3,299.98
1/4	111.90	1/4	469.10	1/4	825.73	1/4	1,169.79	1/4	1,526.17	1/4	1,882.55	1/4	2,238.64	1/4	2,595.19	1/4	2,951.50	1/4	3,307.38
1/2	119.34	1/2	476.54	1/2	833.00	1/2	1,177.12	1/2	1,533.60	1/2	1,889.96	1/2	2,246.07	1/2	2,602.62	1/2	2,958.92	1/2	3,314.77
3/4	126.79	3/4	483.97	3/4	840.27	3/4	1,184.44	3/4	1,541.03	3/4	1,897.38	3/4	2,253.49	3/4	2,610.04	3/4	2,966.35	3/4	3,322.17
6	134.23	6	491.41	6	847.54	6	1,191.77	6	1,548.46	6	1,904.79	6	2,260.92	6	2,617.47	6	2,973.77	6	3,329.56
1/4	141.67	1/4	498.84	1/4	854.69	1/4	1,199.20	1/4	1,555.89	1/4	1,912.20	1/4	2,268.35	1/4	2,624.89	1/4	2,981.19	1/4	3,336.95
1/2	149.12	1/2	506.28	1/2	861.84	1/2	1,206.63	1/2	1,563.32	1/2	1,919.62	1/2	2,275.78	1/2	2,632.31	1/2	2,988.62	1/2	3,344.35
3/4	156.57	3/4	513.72	3/4	868.99	3/4	1,214.06	3/4	1,570.75	3/4	1,927.03	3/4	2,283.21	3/4	2,639.74	3/4	2,996.04	3/4	3,351.74
7	164.01	7	521.15	7	876.14	7	1,221.49	7	1,578.18	7	1,934.45	7	2,290.64	7	2,647.16	7	3,003.46	7	3,359.13
1/4	171.46	1/4	528.59	1/4	883.28	1/4	1,228.93	1/4	1,585.61	1/4	1,941.86	1/4	2,298.08	1/4	2,654.59	1/4	3,010.88	1/4	3,366.52
1/2	178.91	1/2	536.02	1/2	890.42	1/2	1,236.36	1/2	1,593.04	1/2	1,949.28	1/2	2,305.51	1/2	2,662.01	1/2	3,018.31	1/2	3,373.90
3/4	186.36	3/4	543.46	3/4	897.56	3/4	1,243.79	3/4	1,600.48	3/4	1,956.69	3/4	2,312.94	3/4	2,669.43	3/4	3,025.73	3/4	3,381.29
8	193.81	8	550.90	8	904.70	8	1,251.22	8	1,607.91	8	1,964.11	8	2,320.37	8	2,676.85	8	3,033.15	8	3,388.68
1/4	201.25	1/4	558.33	1/4	911.84	1/4	1,258.65	1/4	1,615.34	1/4	1,971.52	1/4	2,327.81	1/4	2,684.28	1/4	3,040.58	1/4	3,395.94
1/2	208.70	1/2	565.77	1/2	918.98	1/2	1,266.08	1/2	1,622.77	1/2	1,978.94	1/2	2,335.24	1/2	2,691.70	1/2	3,048.00	1/2	3,403.21
3/4	216.15	3/4	573.20	3/4	926.12	3/4	1,273.51	3/4	1,630.20	3/4	1,986.35	3/4	2,342.67	3/4	2,699.12	3/4	3,055.42	3/4	3,410.48
9	223.60	9	580.64	9	933.26	9	1,280.94	9	1,637.63	9	1,993.77	9	2,350.11	9	2,706.55	9	3,062.84	9	3,417.75
1/4	231.04	1/4	588.08	1/4	940.40	1/4	1,288.37	1/4	1,645.06	1/4	2,001.18	1/4	2,357.54	1/4	2,713.97	1/4	3,070.27	1/4	3,424.66
1/2	238.49	1/2	595.51	1/2	947.54	1/2	1,295.80	1/2	1,652.49	1/2	2,008.59	1/2	2,364.97	1/2	2,721.39	1/2	3,077.69	1/2	3,431.58
3/4	245.94	3/4	602.95	3/4	954.68	3/4	1,303.24	3/4	1,659.92	3/4	2,016.01	3/4	2,372.41	3/4	2,728.81	3/4	3,085.11	3/4	3,438.49
10	253.39	10	610.38	10	961.82	10	1,310.67	10	1,667.35	10	2,023.42	10	2,379.84	10	2,736.24	10	3,092.54	10	3,445.41
1/4	260.83	1/4	617.82	1/4	968.96	1/4	1,318.10	1/4	1,674.79	1/4	2,030.83	1/4	2,387.27	1/4	2,743.66	1/4	3,099.96	1/4	3,451.84
1/2	268.28	1/2	625.26	1/2	976.10	1/2	1,325.53	1/2	1,682.22	1/2	2,038.25	1/2	2,394.71	1/2	2,751.08	1/2	3,107.38	1/2	3,458.28
3/4	275.73	3/4	632.69	3/4	983.24	3/4	1,332.96	3/4	1,689.65	3/4	2,045.66	3/4	2,402.14	3/4	2,758.51	3/4	3,114.81	3/4	3,464.72
11	283.18	11	640.13	11	990.37	11	1,340.39	11	1,697.08	11	2,053.07	11	2,409.57	11	2,765.93	11	3,122.23	11	3,471.16
1/4	290.62	1/4	647.56	1/4	997.51	1/4	1,347.82	1/4	1,704.51	1/4	2,060.48	1/4	2,417.00	1/4	2,773.35	1/4	3,129.65	1/4	3,477.12
1/2	298.06	1/2	655.00	1/2	1,004.65	1/2	1,355.25	1/2	1,711.94	1/2	2,067.88	1/2	2,424.43	1/2	2,780.77	1/2	3,137.07	1/2	3,483.09
3/4	305.50	3/4	662.44	3/4	1,011.79	3/4	1,362.68	3/4	1,719.37	3/4	2,075.29	3/4	2,431.86	3/4	2,788.20	3/4	3,144.50	3/4	3,489.05

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 LIP 10" HATCH ON EXPANSION DOME.
 GAUGE POINT: (10" HATCH) LOCATED 3'-00" OFF CENTERLINE AND 3'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
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BARGE "E2MS 311"

3 PORT INNAGE TABLE 10" HATCH GAUGE HEIGHT 17'-07"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,495.02	0	3,720.47	0	3,939.58	0	4,158.41	0	4,376.45	0		0		0		0		0	
1/4	3,500.51	1/4	3,725.04	1/4	3,944.14	1/4	4,162.97	1/4	4,380.96	1/4		1/4		1/4		1/4		1/4	
1/2	3,506.01	1/2	3,729.61	1/2	3,948.70	1/2	4,167.53	1/2	4,385.47	1/2		1/2		1/2		1/2		1/2	
3/4	3,511.50	3/4	3,734.18	3/4	3,953.26	3/4	4,172.09	3/4	4,389.98	3/4		3/4		3/4		3/4		3/4	
1	3,516.99	1	3,738.75	1	3,957.82	1	4,176.65	1	4,394.49	1		1		1		1		1	
1/4	3,522.02	1/4	3,743.33	1/4	3,962.38	1/4	4,181.21	1/4	4,398.98	1/4		1/4		1/4		1/4		1/4	
1/2	3,527.06	1/2	3,747.90	1/2	3,966.94	1/2	4,185.77	1/2	4,403.47	1/2		1/2		1/2		1/2		1/2	
3/4	3,532.09	3/4	3,752.47	3/4	3,971.49	3/4	4,190.33	3/4	4,407.96	3/4		3/4		3/4		3/4		3/4	
2	3,537.12	2	3,757.04	2	3,976.05	2	4,194.89	2	4,412.45	2		2		2		2		2	
1/4	3,541.81	1/4	3,761.61	1/4	3,980.61	1/4	4,199.44	1/4	4,416.66	1/4		1/4		1/4		1/4		1/4	
1/2	3,546.50	1/2	3,766.18	1/2	3,985.17	1/2	4,204.00	1/2	4,420.86	1/2		1/2		1/2		1/2		1/2	
3/4	3,551.19	3/4	3,770.76	3/4	3,989.73	3/4	4,208.56	3/4	4,425.07	3/4		3/4		3/4		3/4		3/4	
3	3,555.89	3	3,775.33	3	3,994.29	3	4,213.12	3	4,429.28	3		3		3		3		3	
1/4	3,560.46	1/4	3,779.90	1/4	3,998.85	1/4	4,217.68	1/4	4,432.84	1/4		1/4		1/4		1/4		1/4	
1/2	3,565.03	1/2	3,784.47	1/2	4,003.41	1/2	4,222.24	1/2	4,436.40	1/2		1/2		1/2		1/2		1/2	
3/4	3,569.60	3/4	3,789.04	3/4	4,007.97	3/4	4,226.80	3/4	4,439.97	3/4		3/4		3/4		3/4		3/4	
4	3,574.17	4	3,793.61	4	4,012.53	4	4,231.36	4	4,443.53	4		4		4		4		4	
1/4	3,578.74	1/4	3,798.19	1/4	4,017.08	1/4	4,235.92	1/4	4,446.33	1/4		1/4		1/4		1/4		1/4	
1/2	3,583.32	1/2	3,802.76	1/2	4,021.64	1/2	4,240.48	1/2	4,449.13	1/2		1/2		1/2		1/2		1/2	
3/4	3,587.89	3/4	3,807.33	3/4	4,026.20	3/4	4,245.03	3/4	4,451.93	3/4		3/4		3/4		3/4		3/4	
5	3,592.46	5	3,811.90	5	4,030.76	5	4,249.59	5	4,454.73	5		5		5		5		5	
1/4	3,597.03	1/4	3,816.47	1/4	4,035.32	1/4	4,254.15	1/4	4,456.77	1/4		1/4		1/4		1/4		1/4	
1/2	3,601.60	1/2	3,821.03	1/2	4,039.88	1/2	4,258.71	1/2	4,458.81	1/2		1/2		1/2		1/2		1/2	
3/4	3,606.17	3/4	3,825.60	3/4	4,044.44	3/4	4,263.27	3/4	4,460.85	3/4		3/4		3/4		3/4		3/4	
6	3,610.75	6	3,830.17	6	4,049.00	6	4,267.83	6	4,462.88	6		6		6		6		6	
1/4	3,615.32	1/4	3,834.72	1/4	4,053.56	1/4	4,272.39	1/4	4,464.16	1/4		1/4		1/4		1/4		1/4	
1/2	3,619.89	1/2	3,839.28	1/2	4,058.12	1/2	4,276.95	1/2	4,465.44	1/2		1/2		1/2		1/2		1/2	
3/4	3,624.46	3/4	3,843.84	3/4	4,062.67	3/4	4,281.51	3/4	4,466.71	3/4		3/4		3/4		3/4		3/4	
7	3,629.03	7	3,848.40	7	4,067.23	7	4,286.07	7	4,467.99	7		7		7		7		7	
1/4	3,633.60	1/4	3,852.96	1/4	4,071.79	1/4	4,290.60	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,638.18	1/2	3,857.52	1/2	4,076.35	1/2	4,295.14	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,642.75	3/4	3,862.08	3/4	4,080.91	3/4	4,299.68	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,647.32	8	3,866.64	8	4,085.47	8	4,304.22	8		8		8		8		8		8	
1/4	3,651.89	1/4	3,871.20	1/4	4,090.03	1/4	4,308.73	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,656.46	1/2	3,875.76	1/2	4,094.59	1/2	4,313.25	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,661.04	3/4	3,880.31	3/4	4,099.15	3/4	4,317.76	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,665.61	9	3,884.87	9	4,103.71	9	4,322.27	9		9		9		9		9		9	
1/4	3,670.18	1/4	3,889.43	1/4	4,108.26	1/4	4,326.79	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,674.75	1/2	3,893.99	1/2	4,112.82	1/2	4,331.30	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,679.32	3/4	3,898.55	3/4	4,117.38	3/4	4,335.82	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,683.89	10	3,903.11	10	4,121.94	10	4,340.33	10		10		10		10		10		10	
1/4	3,688.47	1/4	3,907.67	1/4	4,126.50	1/4	4,344.84	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,693.04	1/2	3,912.23	1/2	4,131.06	1/2	4,349.36	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,697.61	3/4	3,916.79	3/4	4,135.62	3/4	4,353.87	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,702.18	11	3,921.35	11	4,140.18	11	4,358.39	11		11		11		11		11		11	
1/4	3,706.75	1/4	3,925.90	1/4	4,144.74	1/4	4,362.90	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,711.32	1/2	3,930.46	1/2	4,149.30	1/2	4,367.42	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,715.90	3/4	3,935.02	3/4	4,153.85	3/4	4,371.93	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/18/2018 CL
CALCULATED: 07/19/2018 CL
PRINTED: 07/20/2018 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2018

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



BARGE "E2MS 311"

3 STBD

INNAGE TABLE

10" HATCH

GAUGE HEIGHT 17'-07 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	2.23	0	313.29	0	671.14	0	1,028.69	0	1,386.37	0	1,744.24	0	2,102.11	0	2,459.95	0	2,817.35	0	3,174.72
1/4	4.09	1/4	320.75	1/4	678.60	1/4	1,036.13	1/4	1,393.82	1/4	1,751.69	1/4	2,109.56	1/4	2,467.39	1/4	2,824.80	1/4	3,182.17
1/2	5.96	1/2	328.20	1/2	686.06	1/2	1,043.57	1/2	1,401.28	1/2	1,759.15	1/2	2,117.02	1/2	2,474.84	1/2	2,832.24	1/2	3,189.61
3/4	7.82	3/4	335.66	3/4	693.51	3/4	1,051.01	3/4	1,408.73	3/4	1,766.60	3/4	2,124.47	3/4	2,482.28	3/4	2,839.69	3/4	3,197.06
1	9.68	1	343.11	1	700.97	1	1,058.45	1	1,416.19	1	1,774.06	1	2,131.93	1	2,489.73	1	2,847.13	1	3,204.51
1/4	13.41	1/4	350.57	1/4	708.42	1/4	1,065.90	1/4	1,423.65	1/4	1,781.51	1/4	2,139.38	1/4	2,497.18	1/4	2,854.58	1/4	3,211.94
1/2	17.14	1/2	358.02	1/2	715.88	1/2	1,073.34	1/2	1,431.10	1/2	1,788.97	1/2	2,147.24	1/2	2,504.62	1/2	2,862.02	1/2	3,219.37
3/4	20.87	3/4	365.48	3/4	723.33	3/4	1,080.78	3/4	1,438.56	3/4	1,796.43	3/4	2,154.29	3/4	2,512.07	3/4	2,869.47	3/4	3,226.80
2	24.59	2	372.93	2	730.79	2	1,088.22	2	1,446.01	2	1,803.88	2	2,161.75	2	2,519.52	2	2,876.91	2	3,234.23
1/4	30.19	1/4	380.39	1/4	738.24	1/4	1,095.66	1/4	1,453.47	1/4	1,811.34	1/4	2,169.21	1/4	2,526.96	1/4	2,884.36	1/4	3,241.64
1/2	35.78	1/2	387.84	1/2	745.70	1/2	1,103.11	1/2	1,460.92	1/2	1,818.79	1/2	2,176.66	1/2	2,534.41	1/2	2,891.80	1/2	3,249.06
3/4	41.37	3/4	395.30	3/4	753.15	3/4	1,110.55	3/4	1,468.38	3/4	1,826.25	3/4	2,184.12	3/4	2,541.86	3/4	2,899.25	3/4	3,256.48
3	46.96	3	402.75	3	760.61	3	1,118.00	3	1,475.83	3	1,833.70	3	2,191.57	3	2,549.30	3	2,906.69	3	3,263.89
1/4	53.93	1/4	410.21	1/4	768.06	1/4	1,125.45	1/4	1,483.29	1/4	1,841.16	1/4	2,199.03	1/4	2,556.75	1/4	2,914.14	1/4	3,271.31
1/2	60.90	1/2	417.66	1/2	775.52	1/2	1,132.90	1/2	1,490.75	1/2	1,848.61	1/2	2,206.48	1/2	2,564.20	1/2	2,921.58	1/2	3,278.73
3/4	67.87	3/4	425.12	3/4	782.97	3/4	1,140.35	3/4	1,498.20	3/4	1,856.07	3/4	2,213.94	3/4	2,571.64	3/4	2,929.03	3/4	3,286.14
4	74.84	4	432.57	4	790.43	4	1,147.80	4	1,505.66	4	1,863.53	4	2,221.39	4	2,579.09	4	2,936.47	4	3,293.56
1/4	82.27	1/4	440.03	1/4	797.88	1/4	1,155.25	1/4	1,513.11	1/4	1,870.98	1/4	2,228.85	1/4	2,586.54	1/4	2,943.92	1/4	3,300.98
1/2	89.70	1/2	447.49	1/2	805.34	1/2	1,162.71	1/2	1,520.57	1/2	1,878.44	1/2	2,236.31	1/2	2,593.98	1/2	2,951.37	1/2	3,308.39
3/4	97.14	3/4	454.94	3/4	812.80	3/4	1,170.16	3/4	1,528.02	3/4	1,885.89	3/4	2,243.76	3/4	2,601.43	3/4	2,958.81	3/4	3,315.81
5	104.57	5	462.40	5	820.25	5	1,177.61	5	1,535.48	5	1,893.35	5	2,251.22	5	2,608.88	5	2,966.26	5	3,323.23
1/4	112.02	1/4	469.85	1/4	827.71	1/4	1,185.07	1/4	1,542.94	1/4	1,900.80	1/4	2,258.67	1/4	2,616.32	1/4	2,973.70	1/4	3,330.64
1/2	119.47	1/2	477.31	1/2	835.16	1/2	1,192.52	1/2	1,550.39	1/2	1,908.26	1/2	2,266.13	1/2	2,623.77	1/2	2,981.15	1/2	3,338.06
3/4	126.92	3/4	484.76	3/4	842.62	3/4	1,199.98	3/4	1,557.85	3/4	1,915.72	3/4	2,273.58	3/4	2,631.21	3/4	2,988.59	3/4	3,345.48
6	134.37	6	492.22	6	850.07	6	1,207.43	6	1,565.30	6	1,923.17	6	2,281.04	6	2,638.66	6	2,996.04	6	3,352.90
1/4	141.82	1/4	499.67	1/4	857.52	1/4	1,214.89	1/4	1,572.76	1/4	1,930.63	1/4	2,288.50	1/4	2,646.11	1/4	3,003.48	1/4	3,360.31
1/2	149.27	1/2	507.13	1/2	864.97	1/2	1,222.34	1/2	1,580.21	1/2	1,938.08	1/2	2,295.95	1/2	2,653.55	1/2	3,010.93	1/2	3,367.72
3/4	156.73	3/4	514.58	3/4	872.42	3/4	1,229.80	3/4	1,587.67	3/4	1,945.54	3/4	2,303.41	3/4	2,661.00	3/4	3,018.37	3/4	3,375.14
7	164.18	7	522.04	7	879.87	7	1,237.26	7	1,595.12	7	1,952.99	7	2,310.86	7	2,668.44	7	3,025.82	7	3,382.55
1/4	171.64	1/4	529.49	1/4	887.31	1/4	1,244.71	1/4	1,602.58	1/4	1,960.45	1/4	2,318.32	1/4	2,675.89	1/4	3,033.26	1/4	3,389.96
1/2	179.09	1/2	536.95	1/2	894.75	1/2	1,252.17	1/2	1,610.04	1/2	1,967.90	1/2	2,325.77	1/2	2,683.33	1/2	3,040.71	1/2	3,397.37
3/4	186.55	3/4	544.40	3/4	902.19	3/4	1,259.62	3/4	1,617.49	3/4	1,975.36	3/4	2,333.23	3/4	2,690.78	3/4	3,048.15	3/4	3,404.78
8	194.01	8	551.86	8	909.63	8	1,267.08	8	1,624.95	8	1,982.82	8	2,340.68	8	2,698.23	8	3,055.60	8	3,412.19
1/4	201.46	1/4	559.31	1/4	917.07	1/4	1,274.53	1/4	1,632.40	1/4	1,990.27	1/4	2,348.14	1/4	2,705.67	1/4	3,063.04	1/4	3,419.48
1/2	208.92	1/2	566.77	1/2	924.51	1/2	1,281.99	1/2	1,639.86	1/2	1,997.73	1/2	2,355.60	1/2	2,713.12	1/2	3,070.49	1/2	3,426.77
3/4	216.37	3/4	574.23	3/4	931.95	3/4	1,289.44	3/4	1,647.31	3/4	2,005.18	3/4	2,363.05	3/4	2,720.56	3/4	3,077.94	3/4	3,434.06
9	223.83	9	581.68	9	939.40	9	1,296.90	9	1,654.77	9	2,012.64	9	2,370.51	9	2,728.01	9	3,085.38	9	3,441.35
1/4	231.28	1/4	589.14	1/4	946.84	1/4	1,304.36	1/4	1,662.22	1/4	2,020.09	1/4	2,377.96	1/4	2,735.45	1/4	3,092.83	1/4	3,448.28
1/2	238.74	1/2	596.59	1/2	954.28	1/2	1,311.81	1/2	1,669.68	1/2	2,027.55	1/2	2,385.42	1/2	2,742.90	1/2	3,100.27	1/2	3,455.22
3/4	246.19	3/4	604.05	3/4	961.72	3/4	1,319.27	3/4	1,677.14	3/4	2,035.00	3/4	2,392.87	3/4	2,750.34	3/4	3,107.72	3/4	3,462.16
10	253.65	10	611.50	10	969.16	10	1,326.72	10	1,684.59	10	2,042.46	10	2,400.33	10	2,757.79	10	3,115.16	10	3,469.09
1/4	261.10	1/4	618.96	1/4	976.60	1/4	1,334.18	1/4	1,692.05	1/4	2,049.92	1/4	2,407.78	1/4	2,765.23	1/4	3,122.61	1/4	3,475.55
1/2	268.56	1/2	626.41	1/2	984.04	1/2	1,341.63	1/2	1,699.50	1/2	2,057.37	1/2	2,415.24	1/2	2,772.68	1/2	3,130.05	1/2	3,482.01
3/4	276.01	3/4	633.87	3/4	991.48	3/4	1,349.09	3/4	1,706.96	3/4	2,064.83	3/4	2,422.70	3/4	2,780.12	3/4	3,137.50	3/4	3,488.47
11	283.47	11	641.32	11	998.92	11	1,356.55	11	1,714.41	11	2,072.28	11	2,430.15	11	2,787.57	11	3,144.94	11	3,494.92
1/4	290.92	1/4	648.78	1/4	1,006.37	1/4	1,364.00	1/4	1,721.87	1/4	2,079.74	1/4	2,437.60	1/4	2,795.01	1/4	3,152.39	1/4	3,500.90
1/2	298.38	1/2	656.23	1/2	1,013.81	1/2	1,371.46	1/2	1,729.33	1/2	2,087.19	1/2	2,445.05	1/2	2,802.46	1/2	3,159.83	1/2	3,506.88
3/4	305.83	3/4	663.69	3/4	1,021.25	3/4	1,378.91	3/4	1,736.78	3/4	2,094.65	3/4	2,452.50	3/4	2,809.90	3/4	3,167.28	3/4	3,512.86

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 LIP 10" HATCH ON EXPANSION DOME.
 GAUGE POINT: (10" HATCH) LOCATED 3'-00" OFF CENTERLINE AND 3'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77588
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BARGE "E2MS 311"

3 STBD

INNAGE TABLE

10" HATCH

GAUGE HEIGHT 17'-07 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,518.84	0	3,744.55	0	3,963.93	0	4,183.02	0	4,401.31	0		0		0		0		0	
1/4	3,524.34	1/4	3,749.13	1/4	3,968.49	1/4	4,187.59	1/4	4,405.82	1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,529.84	1/2	3,753.71	1/2	3,973.06	1/2	4,192.15	1/2	4,410.34	1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,535.33	3/4	3,758.28	3/4	3,977.62	3/4	4,196.72	3/4	4,414.85	3/4		3/4	3/4	3/4	3/4		3/4	3/4	
1	3,540.83	1	3,762.86	1	3,982.18	1	4,201.28	1	4,419.37	1		1		1		1		1	
1/4	3,545.87	1/4	3,767.44	1/4	3,986.75	1/4	4,205.84	1/4	4,423.86	1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,550.91	1/2	3,772.02	1/2	3,991.31	1/2	4,210.41	1/2	4,428.36	1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,555.95	3/4	3,776.59	3/4	3,995.88	3/4	4,214.97	3/4	4,432.85	3/4		3/4	3/4	3/4	3/4		3/4	3/4	
2	3,560.98	2	3,781.17	2	4,000.44	2	4,219.54	2	4,437.35	2		2		2		2		2	
1/4	3,565.68	1/4	3,785.75	1/4	4,005.01	1/4	4,224.10	1/4	4,441.56	1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,570.38	1/2	3,790.32	1/2	4,009.57	1/2	4,228.67	1/2	4,445.77	1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,575.08	3/4	3,794.90	3/4	4,014.14	3/4	4,233.23	3/4	4,449.98	3/4		3/4	3/4	3/4	3/4		3/4	3/4	
3	3,579.77	3	3,799.48	3	4,018.70	3	4,237.80	3	4,454.20	3		3		3		3		3	
1/4	3,584.35	1/4	3,804.06	1/4	4,023.26	1/4	4,242.36	1/4	4,457.76	1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,588.93	1/2	3,808.63	1/2	4,027.83	1/2	4,246.93	1/2	4,461.33	1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,593.50	3/4	3,813.21	3/4	4,032.39	3/4	4,251.49	3/4	4,464.90	3/4		3/4	3/4	3/4	3/4		3/4	3/4	
4	3,598.08	4	3,817.79	4	4,036.96	4	4,256.05	4	4,468.46	4		4		4		4		4	
1/4	3,602.66	1/4	3,822.36	1/4	4,041.52	1/4	4,260.62	1/4	4,471.27	1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,607.24	1/2	3,826.94	1/2	4,046.09	1/2	4,265.18	1/2	4,474.07	1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,611.81	3/4	3,831.52	3/4	4,050.65	3/4	4,269.75	3/4	4,476.87	3/4		3/4	3/4	3/4	3/4		3/4	3/4	
5	3,616.39	5	3,836.10	5	4,055.22	5	4,274.31	5	4,479.68	5		5		5		5		5	
1/4	3,620.97	1/4	3,840.67	1/4	4,059.78	1/4	4,278.88	1/4	4,481.72	1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,625.55	1/2	3,845.24	1/2	4,064.35	1/2	4,283.44	1/2	4,483.76	1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,630.12	3/4	3,849.81	3/4	4,068.91	3/4	4,288.01	3/4	4,485.80	3/4		3/4	3/4	3/4	3/4		3/4	3/4	
6	3,634.70	6	3,854.38	6	4,073.47	6	4,292.57	6	4,487.84	6		6		6		6		6	
1/4	3,639.28	1/4	3,858.94	1/4	4,078.04	1/4	4,297.13	1/4	4,489.12	1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,643.85	1/2	3,863.51	1/2	4,082.60	1/2	4,301.70	1/2	4,490.40	1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,648.43	3/4	3,868.07	3/4	4,087.17	3/4	4,306.26	3/4	4,491.67	3/4		3/4	3/4	3/4	3/4		3/4	3/4	
7	3,653.01	7	3,872.64	7	4,091.73	7	4,310.83	7	4,492.95	7		7		7		7		7	
1/4	3,657.59	1/4	3,877.20	1/4	4,096.30	1/4	4,315.37	1/4		1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,662.16	1/2	3,881.77	1/2	4,100.86	1/2	4,319.91	1/2		1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,666.74	3/4	3,886.33	3/4	4,105.43	3/4	4,324.45	3/4		3/4		3/4	3/4	3/4	3/4		3/4	3/4	
8	3,671.32	8	3,890.89	8	4,109.99	8	4,328.99	8		8		8		8		8		8	
1/4	3,675.89	1/4	3,895.46	1/4	4,114.55	1/4	4,333.51	1/4		1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,680.47	1/2	3,900.02	1/2	4,119.12	1/2	4,338.03	1/2		1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,685.05	3/4	3,904.59	3/4	4,123.68	3/4	4,342.55	3/4		3/4		3/4	3/4	3/4	3/4		3/4	3/4	
9	3,689.63	9	3,909.15	9	4,128.25	9	4,347.07	9		9		9		9		9		9	
1/4	3,694.20	1/4	3,913.72	1/4	4,132.81	1/4	4,351.59	1/4		1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,698.78	1/2	3,918.28	1/2	4,137.38	1/2	4,356.11	1/2		1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,703.36	3/4	3,922.85	3/4	4,141.94	3/4	4,360.63	3/4		3/4		3/4	3/4	3/4	3/4		3/4	3/4	
10	3,707.93	10	3,927.41	10	4,146.51	10	4,365.15	10		10		10		10		10		10	
1/4	3,712.51	1/4	3,931.97	1/4	4,151.07	1/4	4,369.67	1/4		1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,717.09	1/2	3,936.54	1/2	4,155.64	1/2	4,374.19	1/2		1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,721.67	3/4	3,941.10	3/4	4,160.20	3/4	4,378.71	3/4		3/4		3/4	3/4	3/4	3/4		3/4	3/4	
11	3,726.24	11	3,945.67	11	4,164.76	11	4,383.23	11		11		11		11		11		11	
1/4	3,730.82	1/4	3,950.23	1/4	4,169.33	1/4	4,387.75	1/4		1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,735.40	1/2	3,954.80	1/2	4,173.89	1/2	4,392.27	1/2		1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,739.98	3/4	3,959.36	3/4	4,178.46	3/4	4,396.79	3/4		3/4		3/4	3/4	3/4	3/4		3/4	3/4	

STRAPPED: 07/18/2018 CL
 CALCULATED: 07/19/2018 CL
 PRINTED: 07/20/2018 SW

CANCELS AND SUPERCEDES
 ALL PRIOR TO 07/2018

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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BARGE "E2MS 311"

ULLAGE (10" HATCH)

	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	- 02-0/8	02-0/8	- 04-0/8	04-0/8	- 06-1/8	06-1/8	- 08-1/8	08-1/8	- 10-1/8	10-1/8	- 12-1/4	12-1/4
1 STBD	- 02-0/8	02-0/8	- 04-0/8	04-0/8	- 06-1/8	06-1/8	- 08-1/8	08-1/8	- 10-1/8	10-1/8	- 12-1/8	12-1/8
2 PORT	- 02-0/8	02-0/8	- 04-1/8	04-1/8	- 06-1/8	06-1/8	- 08-1/8	08-1/8	- 10-1/8	10-1/8	- 12-1/4	12-1/4
2 STBD	- 02-0/8	02-0/8	- 04-1/8	04-1/8	- 06-1/8	06-1/8	- 08-1/8	08-1/8	- 10-1/8	10-1/8	- 12-1/4	12-1/4
3 PORT	02-0/8	- 02-0/8	04-0/8	- 04-0/8	06-1/8	- 06-1/8	08-1/8	- 08-1/8	10-1/8	- 10-1/8	12-1/8	- 12-1/8
3 STBD	02-0/8	- 02-0/8	04-0/8	- 04-0/8	06-1/8	- 06-1/8	08-1/8	- 08-1/8	10-1/8	- 10-1/8	12-1/8	- 12-1/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 2'-00"
 AFT DRAFT = 6'-00"
 DIFF. = 4'-00" (DOWN BY STERN)

THE CORRECTION FOR 4'-00" TRIM DOWN BY STERN FOR 1 PORT IS 08-1/8"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 4'-08 1/8"

LENGTH BETWEEN DRAFT MARKS: 235'-09"

July 18, 2018

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BARGE "E2MS 311"

1 PORT ULLAGE TABLE

10" HATCH GAUGE HEIGHT 17'-06 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	5,041.41	0	4,739.60	0	4,382.94	0	4,026.28	0	3,668.69	0	3,310.98	0	2,953.28
1/4		1/4		1/4		1/4	5,039.33	1/4	4,732.17	1/4	4,375.51	1/4	4,018.85	1/4	3,661.23	1/4	3,303.53	1/4	2,945.83
1/2		1/2		1/2		1/2	5,037.25	1/2	4,724.74	1/2	4,368.08	1/2	4,011.42	1/2	3,653.78	1/2	3,296.08	1/2	2,938.38
3/4		3/4		3/4		3/4	5,035.18	3/4	4,717.31	3/4	4,360.65	3/4	4,003.99	3/4	3,646.33	3/4	3,288.63	3/4	2,930.93
1		1		1		1	5,031.85	1	4,709.88	1	4,353.22	1	3,996.55	1	3,638.88	1	3,281.18	1	2,923.48
1/4		1/4		1/4		1/4	5,028.53	1/4	4,702.45	1/4	4,345.79	1/4	3,989.11	1/4	3,631.42	1/4	3,273.72	1/4	2,916.02
1/2		1/2		1/2		1/2	5,025.21	1/2	4,695.02	1/2	4,338.36	1/2	3,981.66	1/2	3,623.97	1/2	3,266.27	1/2	2,908.57
3/4		3/4		3/4		3/4	5,021.89	3/4	4,687.59	3/4	4,330.93	3/4	3,974.22	3/4	3,616.52	3/4	3,258.82	3/4	2,901.12
2		2		2		2	5,017.33	2	4,680.16	2	4,323.50	2	3,966.77	2	3,609.07	2	3,251.37	2	2,893.67
1/4		1/4		1/4		1/4	5,012.76	1/4	4,672.73	1/4	4,316.07	1/4	3,959.32	1/4	3,601.62	1/4	3,243.92	1/4	2,886.21
1/2		1/2		1/2		1/2	5,008.20	1/2	4,665.30	1/2	4,308.64	1/2	3,951.87	1/2	3,594.16	1/2	3,236.46	1/2	2,878.76
3/4		3/4		3/4		3/4	5,003.64	3/4	4,657.87	3/4	4,301.21	3/4	3,944.41	3/4	3,586.71	3/4	3,229.01	3/4	2,871.31
3		3		3		3	4,997.83	3	4,650.44	3	4,293.78	3	3,936.96	3	3,579.26	3	3,221.56	3	2,863.86
1/4		1/4		1/4		1/4	4,992.03	1/4	4,643.01	1/4	4,286.35	1/4	3,929.51	1/4	3,571.81	1/4	3,214.11	1/4	2,856.41
1/2		1/2		1/2		1/2	4,986.22	1/2	4,635.58	1/2	4,278.92	1/2	3,922.06	1/2	3,564.36	1/2	3,206.66	1/2	2,848.95
3/4		3/4		3/4		3/4	4,980.41	3/4	4,628.15	3/4	4,271.49	3/4	3,914.60	3/4	3,556.90	3/4	3,199.20	3/4	2,841.50
4		4		4		4	4,973.56	4	4,620.72	4	4,264.06	4	3,907.15	4	3,549.45	4	3,191.75	4	2,834.05
1/4		1/4		1/4		1/4	4,966.70	1/4	4,613.29	1/4	4,256.63	1/4	3,899.70	1/4	3,542.00	1/4	3,184.30	1/4	2,826.60
1/2		1/2		1/2		1/2	4,959.84	1/2	4,605.85	1/2	4,249.20	1/2	3,892.25	1/2	3,534.55	1/2	3,176.85	1/2	2,819.15
3/4		3/4		3/4		3/4	4,952.98	3/4	4,598.42	3/4	4,241.77	3/4	3,884.80	3/4	3,527.10	3/4	3,169.39	3/4	2,811.69
5		5		5		5	4,945.67	5	4,590.99	5	4,234.33	5	3,877.34	5	3,519.64	5	3,161.94	5	2,804.24
1/4		1/4		1/4		1/4	4,938.35	1/4	4,583.56	1/4	4,226.90	1/4	3,869.89	1/4	3,512.19	1/4	3,154.49	1/4	2,796.79
1/2		1/2		1/2		1/2	4,931.04	1/2	4,576.13	1/2	4,219.47	1/2	3,862.44	1/2	3,504.74	1/2	3,147.04	1/2	2,789.34
3/4		3/4		3/4		3/4	4,923.72	3/4	4,568.70	3/4	4,212.04	3/4	3,854.99	3/4	3,497.29	3/4	3,139.59	3/4	2,781.89
6		6		6		6	4,916.37	6	4,561.27	6	4,204.61	6	3,847.54	6	3,489.84	6	3,132.13	6	2,774.43
1/4		1/4		1/4		1/4	4,909.02	1/4	4,553.84	1/4	4,197.18	1/4	3,840.08	1/4	3,482.38	1/4	3,124.68	1/4	2,766.98
1/2		1/2		1/2		1/2	4,901.67	1/2	4,546.41	1/2	4,189.75	1/2	3,832.63	1/2	3,474.93	1/2	3,117.23	1/2	2,759.53
3/4		3/4		3/4		3/4	4,894.32	3/4	4,538.98	3/4	4,182.32	3/4	3,825.18	3/4	3,467.48	3/4	3,109.78	3/4	2,752.08
7		7		7		7	4,886.96	7	4,531.55	7	4,174.89	7	3,817.73	7	3,460.03	7	3,102.33	7	2,744.63
1/4		1/4		1/4		1/4	4,879.61	1/4	4,524.12	1/4	4,167.46	1/4	3,810.28	1/4	3,452.57	1/4	3,094.87	1/4	2,737.17
1/2		1/2		1/2		1/2	4,872.25	1/2	4,516.69	1/2	4,160.03	1/2	3,802.82	1/2	3,445.12	1/2	3,087.42	1/2	2,729.72
3/4		3/4		3/4		3/4	4,864.89	3/4	4,509.26	3/4	4,152.60	3/4	3,795.37	3/4	3,437.67	3/4	3,079.97	3/4	2,722.27
8		8		8		8	4,857.54	8	4,501.83	8	4,145.17	8	3,787.92	8	3,430.22	8	3,072.52	8	2,714.82
1/4		1/4		1/4		1/4	4,850.18	1/4	4,494.40	1/4	4,137.74	1/4	3,780.47	1/4	3,422.77	1/4	3,065.07	1/4	2,707.36
1/2		1/2		1/2		1/2	4,842.82	1/2	4,486.97	1/2	4,130.31	1/2	3,773.01	1/2	3,415.31	1/2	3,057.61	1/2	2,699.91
3/4		3/4		3/4		3/4	4,835.46	3/4	4,479.54	3/4	4,122.88	3/4	3,765.56	3/4	3,407.86	3/4	3,050.16	3/4	2,692.46
9		9		9		9	4,828.10	9	4,472.11	9	4,115.45	9	3,758.11	9	3,400.41	9	3,042.71	9	2,685.01
1/4		1/4		1/4		1/4	4,820.75	1/4	4,464.68	1/4	4,108.02	1/4	3,750.66	1/4	3,392.96	1/4	3,035.26	1/4	2,677.56
1/2		1/2		1/2		1/2	4,813.39	1/2	4,457.25	1/2	4,100.59	1/2	3,743.21	1/2	3,385.51	1/2	3,027.80	1/2	2,670.10
3/4		3/4		3/4		3/4	4,806.03	3/4	4,449.82	3/4	4,093.16	3/4	3,735.75	3/4	3,378.05	3/4	3,020.35	3/4	2,662.65
10		10		10		10	4,798.68	10	4,442.39	10	4,085.73	10	3,728.30	10	3,370.60	10	3,012.90	10	2,655.20
1/4		1/4		1/4		1/4	4,791.32	1/4	4,434.96	1/4	4,078.30	1/4	3,720.85	1/4	3,363.15	1/4	3,005.45	1/4	2,647.75
1/2		1/2		1/2		1/2	4,783.96	1/2	4,427.53	1/2	4,070.87	1/2	3,713.40	1/2	3,355.70	1/2	2,998.00	1/2	2,640.30
3/4		3/4		3/4		3/4	4,776.61	3/4	4,420.09	3/4	4,063.44	3/4	3,705.95	3/4	3,348.25	3/4	2,990.54	3/4	2,632.84
11		11		11		11	4,769.21	11	4,412.66	11	4,056.01	11	3,698.49	11	3,340.79	11	2,983.09	11	2,625.39
1/4		1/4		1/4		1/4	4,761.82	1/4	4,405.23	1/4	4,048.57	1/4	3,691.04	1/4	3,333.34	1/4	2,975.64	1/4	2,617.94
1/2		1/2		1/2		1/2	4,754.43	1/2	4,397.80	1/2	4,041.14	1/2	3,683.59	1/2	3,325.89	1/2	2,968.19	1/2	2,610.49
3/4		3/4		3/4		3/4	5,043.49	3/4	4,747.03	3/4	4,390.37	3/4	4,033.71	3/4	3,676.14	3/4	3,318.44	3/4	2,960.74

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 LIP 10" HATCH ON EXPANSION DOME.
 GAUGE POINT: (10" HATCH) LOCATED 3'-00" OFF CENTERLINE AND 3'-00" FORWARD OF AFT BULKHEAD.

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





BARGE "E2MS 311"

1 PORT ULLAGE TABLE 10" HATCH GAUGE HEIGHT 17'-06 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	2,595.58	0	2,237.78	0	1,879.98	0	1,522.18	0	1,164.37	0	808.85	0	451.97	0	126.71	0			
1/4	2,588.13	1/4	2,230.32	1/4	1,872.52	1/4	1,514.72	1/4	1,156.92	1/4	801.45	1/4	444.69	1/4	120.48	1/4			
1/2	2,580.67	1/2	2,222.87	1/2	1,865.07	1/2	1,507.27	1/2	1,149.47	1/2	794.05	1/2	437.41	1/2	114.25	1/2			
3/4	2,573.22	3/4	2,215.42	3/4	1,857.61	3/4	1,499.81	3/4	1,142.01	3/4	786.65	3/4	430.13	3/4	108.02	3/4			
1	2,565.76	1	2,207.96	1	1,850.16	1	1,492.36	1	1,134.57	1	779.22	1	422.94	1	101.88	1			
1/4	2,558.31	1/4	2,200.51	1/4	1,842.71	1/4	1,484.90	1/4	1,127.13	1/4	771.79	1/4	415.75	1/4	95.75	1/4			
1/2	2,550.86	1/2	2,193.05	1/2	1,835.25	1/2	1,477.45	1/2	1,119.70	1/2	764.36	1/2	408.56	1/2	89.61	1/2			
3/4	2,543.40	3/4	2,185.60	3/4	1,827.80	3/4	1,470.00	3/4	1,112.26	3/4	756.93	3/4	401.37	3/4	83.48	3/4			
2	2,535.95	2	2,178.15	2	1,820.34	2	1,462.54	2	1,104.83	2	749.48	2	394.26	2	77.44	2			
1/4	2,528.49	1/4	2,170.69	1/4	1,812.89	1/4	1,455.09	1/4	1,097.41	1/4	742.02	1/4	387.16	1/4	71.41	1/4			
1/2	2,521.04	1/2	2,163.24	1/2	1,805.44	1/2	1,447.63	1/2	1,089.99	1/2	734.57	1/2	380.05	1/2	65.38	1/2			
3/4	2,513.58	3/4	2,155.78	3/4	1,797.98	3/4	1,440.18	3/4	1,082.57	3/4	727.11	3/4	372.95	3/4	59.35	3/4			
3	2,506.13	3	2,148.33	3	1,790.53	3	1,432.73	3	1,075.15	3	719.66	3	365.93	3	53.87	3			
1/4	2,498.68	1/4	2,140.87	1/4	1,783.07	1/4	1,425.27	1/4	1,067.74	1/4	712.21	1/4	358.92	1/4	48.39	1/4			
1/2	2,491.22	1/2	2,133.42	1/2	1,775.62	1/2	1,417.82	1/2	1,060.33	1/2	704.75	1/2	351.90	1/2	42.90	1/2			
3/4	2,483.77	3/4	2,125.97	3/4	1,768.16	3/4	1,410.36	3/4	1,052.91	3/4	697.30	3/4	344.88	3/4	37.42	3/4			
4	2,476.31	4	2,118.51	4	1,760.71	4	1,402.91	4	1,045.51	4	689.84	4	337.95	4	33.40	4			
1/4	2,468.86	1/4	2,111.06	1/4	1,753.26	1/4	1,395.45	1/4	1,038.11	1/4	682.39	1/4	331.02	1/4	29.39	1/4			
1/2	2,461.40	1/2	2,103.60	1/2	1,745.80	1/2	1,388.00	1/2	1,030.71	1/2	674.94	1/2	324.09	1/2	25.37	1/2			
3/4	2,453.95	3/4	2,096.15	3/4	1,738.35	3/4	1,380.55	3/4	1,023.31	3/4	667.48	3/4	317.16	3/4	21.36	3/4			
5	2,446.50	5	2,088.69	5	1,730.89	5	1,373.09	5	1,015.92	5	660.03	5	310.32	5	18.44	5			
1/4	2,439.04	1/4	2,081.24	1/4	1,723.44	1/4	1,365.64	1/4	1,008.52	1/4	652.57	1/4	303.48	1/4	15.52	1/4			
1/2	2,431.59	1/2	2,073.79	1/2	1,715.98	1/2	1,358.18	1/2	1,001.13	1/2	645.12	1/2	296.64	1/2	12.60	1/2			
3/4	2,424.13	3/4	2,066.33	3/4	1,708.53	3/4	1,350.73	3/4	993.73	3/4	637.67	3/4	289.80	3/4	9.69	3/4			
6	2,416.68	6	2,058.88	6	1,701.08	6	1,343.27	6	986.34	6	630.21	6	283.04	6	7.82	6			
1/4	2,409.23	1/4	2,051.42	1/4	1,693.62	1/4	1,335.82	1/4	978.94	1/4	622.76	1/4	276.29	1/4	5.96	1/4			
1/2	2,401.77	1/2	2,043.97	1/2	1,686.17	1/2	1,328.37	1/2	971.55	1/2	615.30	1/2	269.53	1/2	4.10	1/2			
3/4	2,394.32	3/4	2,036.52	3/4	1,678.71	3/4	1,320.91	3/4	964.15	3/4	607.85	3/4	262.78	3/4	2.23	3/4			
7	2,386.86	7	2,029.06	7	1,671.26	7	1,313.46	7	956.76	7	600.40	7	256.11	7		7			
1/4	2,379.41	1/4	2,021.61	1/4	1,663.81	1/4	1,306.00	1/4	949.36	1/4	592.95	1/4	249.44	1/4		1/4			
1/2	2,371.95	1/2	2,014.15	1/2	1,656.35	1/2	1,298.55	1/2	941.96	1/2	585.50	1/2	242.78	1/2		1/2			
3/4	2,364.50	3/4	2,006.70	3/4	1,648.90	3/4	1,291.10	3/4	934.57	3/4	578.05	3/4	236.11	3/4		3/4			
8	2,357.05	8	1,999.24	8	1,641.44	8	1,283.64	8	927.17	8	570.60	8	229.53	8		8			
1/4	2,349.59	1/4	1,991.79	1/4	1,633.99	1/4	1,276.19	1/4	919.78	1/4	563.15	1/4	222.95	1/4		1/4			
1/2	2,342.14	1/2	1,984.34	1/2	1,626.53	1/2	1,268.73	1/2	912.38	1/2	555.70	1/2	216.37	1/2		1/2			
3/4	2,334.68	3/4	1,976.88	3/4	1,619.08	3/4	1,261.28	3/4	904.99	3/4	548.25	3/4	209.79	3/4		3/4			
9	2,327.23	9	1,969.43	9	1,611.63	9	1,253.82	9	897.59	9	540.80	9	203.30	9		9			
1/4	2,319.78	1/4	1,961.97	1/4	1,604.17	1/4	1,246.37	1/4	890.20	1/4	533.35	1/4	196.81	1/4		1/4			
1/2	2,312.32	1/2	1,954.52	1/2	1,596.72	1/2	1,238.92	1/2	882.80	1/2	525.90	1/2	190.32	1/2		1/2			
3/4	2,304.87	3/4	1,947.07	3/4	1,589.26	3/4	1,231.46	3/4	875.41	3/4	518.45	3/4	183.82	3/4		3/4			
10	2,297.41	10	1,939.61	10	1,581.81	10	1,224.01	10	868.01	10	511.01	10	177.42	10		10			
1/4	2,289.96	1/4	1,932.16	1/4	1,574.36	1/4	1,216.55	1/4	860.62	1/4	503.58	1/4	171.02	1/4		1/4			
1/2	2,282.50	1/2	1,924.70	1/2	1,566.90	1/2	1,209.10	1/2	853.22	1/2	496.15	1/2	164.61	1/2		1/2			
3/4	2,275.05	3/4	1,917.25	3/4	1,559.45	3/4	1,201.65	3/4	845.83	3/4	488.72	3/4	158.21	3/4		3/4			
11	2,267.60	11	1,909.79	11	1,551.99	11	1,194.19	11	838.43	11	481.35	11	151.89	11		11			
1/4	2,260.14	1/4	1,902.34	1/4	1,544.54	1/4	1,186.74	1/4	831.04	1/4	473.98	1/4	145.57	1/4		1/4			
1/2	2,252.69	1/2	1,894.89	1/2	1,537.08	1/2	1,179.28	1/2	823.64	1/2	466.62	1/2	139.25	1/2		1/2			
3/4	2,245.23	3/4	1,887.43	3/4	1,529.63	3/4	1,171.83	3/4	816.24	3/4	459.25	3/4	132.94	3/4		3/4			

STRAPPED: 07/18/2018 CL
CALCULATED: 07/19/2018 CL
PRINTED: 07/20/2018 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2018

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
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BARGE "E2MS 311"

1 STBD ULLAGE TABLE

10" HATCH GAUGE HEIGHT 17'-06 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	5,040.74	0	4,739.10	0	4,382.64	0	4,026.17	0	3,668.77	0	3,311.26	0	2,953.75
1/4		1/4		1/4		1/4	5,038.67	1/4	4,731.68	1/4	4,375.21	1/4	4,018.74	1/4	3,661.32	1/4	3,303.81	1/4	2,946.30
1/2		1/2		1/2		1/2	5,036.59	1/2	4,724.25	1/2	4,367.78	1/2	4,011.32	1/2	3,653.87	1/2	3,296.36	1/2	2,938.85
3/4		3/4		3/4		3/4	5,034.51	3/4	4,716.82	3/4	4,360.36	3/4	4,003.89	3/4	3,646.42	3/4	3,288.91	3/4	2,931.40
1		1		1		1	5,031.19	1	4,709.40	1	4,352.93	1	3,996.45	1	3,638.97	1	3,281.47	1	2,923.96
1/4		1/4		1/4		1/4	5,027.87	1/4	4,701.97	1/4	4,345.50	1/4	3,989.01	1/4	3,631.53	1/4	3,274.02	1/4	2,916.51
1/2		1/2		1/2		1/2	5,024.55	1/2	4,694.54	1/2	4,338.08	1/2	3,981.58	1/2	3,624.08	1/2	3,266.57	1/2	2,909.06
3/4		3/4		3/4		3/4	5,021.23	3/4	4,687.12	3/4	4,330.65	3/4	3,974.14	3/4	3,616.63	3/4	3,259.12	3/4	2,901.61
2		2		2		2	5,016.67	2	4,679.69	2	4,323.22	2	3,966.69	2	3,609.18	2	3,251.67	2	2,894.16
1/4		1/4		1/4		1/4	5,012.11	1/4	4,672.26	1/4	4,315.80	1/4	3,959.24	1/4	3,601.73	1/4	3,244.22	1/4	2,886.72
1/2		1/2		1/2		1/2	5,007.55	1/2	4,664.84	1/2	4,308.37	1/2	3,951.79	1/2	3,594.29	1/2	3,236.78	1/2	2,879.27
3/4		3/4		3/4		3/4	5,002.99	3/4	4,657.41	3/4	4,300.94	3/4	3,944.35	3/4	3,586.84	3/4	3,229.33	3/4	2,871.82
3		3		3		3	4,997.19	3	4,649.99	3	4,293.52	3	3,936.90	3	3,579.39	3	3,221.88	3	2,864.37
1/4		1/4		1/4		1/4	4,991.39	1/4	4,642.56	1/4	4,286.09	1/4	3,929.45	1/4	3,571.94	1/4	3,214.43	1/4	2,856.92
1/2		1/2		1/2		1/2	4,985.58	1/2	4,635.13	1/2	4,278.67	1/2	3,922.00	1/2	3,564.49	1/2	3,206.98	1/2	2,849.48
3/4		3/4		3/4		3/4	4,979.78	3/4	4,627.71	3/4	4,271.24	3/4	3,914.55	3/4	3,557.05	3/4	3,199.54	3/4	2,842.03
4		4		4		4	4,972.93	4	4,620.28	4	4,263.81	4	3,907.11	4	3,549.60	4	3,192.09	4	2,834.58
1/4		1/4		1/4		1/4	4,966.07	1/4	4,612.85	1/4	4,256.39	1/4	3,899.66	1/4	3,542.15	1/4	3,184.64	1/4	2,827.13
1/2		1/2		1/2		1/2	4,959.22	1/2	4,605.43	1/2	4,248.96	1/2	3,892.21	1/2	3,534.70	1/2	3,177.19	1/2	2,819.68
3/4		3/4		3/4		3/4	4,952.36	3/4	4,598.00	3/4	4,241.53	3/4	3,884.76	3/4	3,527.25	3/4	3,169.74	3/4	2,812.24
5		5		5		5	4,945.05	5	4,590.57	5	4,234.11	5	3,877.31	5	3,519.80	5	3,162.30	5	2,804.79
1/4		1/4		1/4		1/4	4,937.74	1/4	4,583.15	1/4	4,226.68	1/4	3,869.87	1/4	3,512.36	1/4	3,154.85	1/4	2,797.34
1/2		1/2		1/2		1/2	4,930.43	1/2	4,575.72	1/2	4,219.25	1/2	3,862.42	1/2	3,504.91	1/2	3,147.40	1/2	2,789.89
3/4		3/4		3/4		3/4	4,923.12	3/4	4,568.30	3/4	4,211.83	3/4	3,854.97	3/4	3,497.46	3/4	3,139.95	3/4	2,782.44
6		6		6		6	4,915.77	6	4,560.87	6	4,204.40	6	3,847.52	6	3,490.01	6	3,132.50	6	2,774.99
1/4		1/4		1/4		1/4	4,908.42	1/4	4,553.44	1/4	4,196.98	1/4	3,840.07	1/4	3,482.56	1/4	3,125.06	1/4	2,767.55
1/2		1/2		1/2		1/2	4,901.08	1/2	4,546.02	1/2	4,189.55	1/2	3,832.62	1/2	3,475.12	1/2	3,117.61	1/2	2,760.10
3/4		3/4		3/4		3/4	4,893.73	3/4	4,538.59	3/4	4,182.12	3/4	3,825.18	3/4	3,467.67	3/4	3,110.16	3/4	2,752.65
7		7		7		7	4,886.38	7	4,531.16	7	4,174.70	7	3,817.73	7	3,460.22	7	3,102.71	7	2,745.20
1/4		1/4		1/4		1/4	4,879.03	1/4	4,523.74	1/4	4,167.27	1/4	3,810.28	1/4	3,452.77	1/4	3,095.26	1/4	2,737.75
1/2		1/2		1/2		1/2	4,871.68	1/2	4,516.31	1/2	4,159.84	1/2	3,802.83	1/2	3,445.32	1/2	3,087.81	1/2	2,730.31
3/4		3/4		3/4		3/4	4,864.32	3/4	4,508.88	3/4	4,152.42	3/4	3,795.38	3/4	3,437.88	3/4	3,080.37	3/4	2,722.86
8		8		8		8	4,856.97	8	4,501.46	8	4,144.99	8	3,787.94	8	3,430.43	8	3,072.92	8	2,715.41
1/4		1/4		1/4		1/4	4,849.62	1/4	4,494.03	1/4	4,137.56	1/4	3,780.49	1/4	3,422.98	1/4	3,065.47	1/4	2,707.96
1/2		1/2		1/2		1/2	4,842.26	1/2	4,486.60	1/2	4,130.14	1/2	3,773.04	1/2	3,415.53	1/2	3,058.02	1/2	2,700.51
3/4		3/4		3/4		3/4	4,834.91	3/4	4,479.18	3/4	4,122.71	3/4	3,765.59	3/4	3,408.08	3/4	3,050.57	3/4	2,693.07
9		9		9		9	4,827.56	9	4,471.75	9	4,115.28	9	3,758.14	9	3,400.64	9	3,043.13	9	2,685.62
1/4		1/4		1/4		1/4	4,820.20	1/4	4,464.33	1/4	4,107.86	1/4	3,750.70	1/4	3,393.19	1/4	3,035.68	1/4	2,678.17
1/2		1/2		1/2		1/2	4,812.85	1/2	4,456.90	1/2	4,100.43	1/2	3,743.25	1/2	3,385.74	1/2	3,028.23	1/2	2,670.72
3/4		3/4		3/4		3/4	4,805.50	3/4	4,449.47	3/4	4,093.01	3/4	3,735.80	3/4	3,378.29	3/4	3,020.78	3/4	2,663.27
10		10		10		10	4,798.14	10	4,442.05	10	4,085.58	10	3,728.35	10	3,370.84	10	3,013.33	10	2,655.83
1/4		1/4		1/4		1/4	4,790.79	1/4	4,434.62	1/4	4,078.15	1/4	3,720.90	1/4	3,363.39	1/4	3,005.89	1/4	2,648.38
1/2		1/2		1/2		1/2	4,783.44	1/2	4,427.19	1/2	4,070.73	1/2	3,713.46	1/2	3,355.95	1/2	2,998.44	1/2	2,640.93
3/4		3/4		3/4		3/4	4,776.09	3/4	4,419.77	3/4	4,063.30	3/4	3,706.01	3/4	3,348.50	3/4	2,990.99	3/4	2,633.48
11		11		11		11	4,768.70	11	4,412.34	11	4,055.87	11	3,698.56	11	3,341.05	11	2,983.54	11	2,626.03
1/4		1/4		1/4		1/4	4,761.31	1/4	4,404.91	1/4	4,048.45	1/4	3,691.11	1/4	3,333.60	1/4	2,976.09	1/4	2,618.58
1/2		1/2		1/2		1/2	4,753.92	1/2	4,397.49	1/2	4,041.02	1/2	3,683.66	1/2	3,326.15	1/2	2,968.65	1/2	2,611.14
3/4		3/4		3/4		3/4	5,042.82	3/4	4,746.53	3/4	4,390.06	3/4	4,033.59	3/4	3,676.21	3/4	3,318.71	3/4	2,961.20

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 LIP 10" HATCH ON EXPANSION DOME.

GAUGE POINT: (10" HATCH) LOCATED 3'-00" OFF CENTERLINE AND 3'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

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BARGE "E2MS 311"

1 STBD

ULLAGE TABLE

10" HATCH

GAUGE HEIGHT 17'-06 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	2,596.24	0	2,238.63	0	1,881.02	0	1,523.41	0	1,165.80	0	808.67	0	451.69	0	126.62	0			
1/4	2,588.79	1/4	2,231.18	1/4	1,873.57	1/4	1,515.96	1/4	1,158.35	1/4	801.23	1/4	444.42	1/4	120.39	1/4			
1/2	2,581.34	1/2	2,223.73	1/2	1,866.12	1/2	1,508.51	1/2	1,150.90	1/2	793.78	1/2	437.14	1/2	114.17	1/2			
3/4	2,573.89	3/4	2,216.28	3/4	1,858.67	3/4	1,501.06	3/4	1,143.45	3/4	786.34	3/4	429.87	3/4	107.94	3/4			
1	2,566.44	1	2,208.83	1	1,851.22	1	1,493.61	1	1,136.00	1	778.89	1	422.68	1	101.81	1			
1/4	2,558.99	1/4	2,201.38	1/4	1,843.77	1/4	1,486.16	1/4	1,128.55	1/4	771.44	1/4	415.49	1/4	95.68	1/4			
1/2	2,551.54	1/2	2,193.93	1/2	1,836.32	1/2	1,478.71	1/2	1,121.10	1/2	763.99	1/2	408.31	1/2	89.55	1/2			
3/4	2,544.09	3/4	2,186.48	3/4	1,828.87	3/4	1,471.26	3/4	1,113.65	3/4	756.54	3/4	401.12	3/4	83.41	3/4			
2	2,536.64	2	2,179.03	2	1,821.42	2	1,463.81	2	1,106.20	2	749.09	2	394.02	2	77.39	2			
1/4	2,529.19	1/4	2,171.58	1/4	1,813.97	1/4	1,456.36	1/4	1,098.76	1/4	741.64	1/4	386.92	1/4	71.36	1/4			
1/2	2,521.74	1/2	2,164.13	1/2	1,806.52	1/2	1,448.91	1/2	1,091.31	1/2	734.19	1/2	379.82	1/2	65.33	1/2			
3/4	2,514.29	3/4	2,156.68	3/4	1,799.07	3/4	1,441.46	3/4	1,083.86	3/4	726.74	3/4	372.72	3/4	59.30	3/4			
3	2,506.84	3	2,149.23	3	1,791.62	3	1,434.01	3	1,076.42	3	719.29	3	365.70	3	53.83	3			
1/4	2,499.39	1/4	2,141.78	1/4	1,784.17	1/4	1,426.56	1/4	1,068.97	1/4	711.84	1/4	358.69	1/4	48.35	1/4			
1/2	2,491.94	1/2	2,134.33	1/2	1,776.72	1/2	1,419.11	1/2	1,061.53	1/2	704.39	1/2	351.68	1/2	42.87	1/2			
3/4	2,484.49	3/4	2,126.88	3/4	1,769.27	3/4	1,411.66	3/4	1,054.08	3/4	696.94	3/4	344.66	3/4	37.39	3/4			
4	2,477.04	4	2,119.43	4	1,761.82	4	1,404.21	4	1,046.64	4	689.49	4	337.74	4	33.38	4			
1/4	2,469.59	1/4	2,111.98	1/4	1,754.37	1/4	1,396.76	1/4	1,039.20	1/4	682.04	1/4	330.81	1/4	29.36	1/4			
1/2	2,462.14	1/2	2,104.53	1/2	1,746.92	1/2	1,389.31	1/2	1,031.76	1/2	674.59	1/2	323.89	1/2	25.35	1/2			
3/4	2,454.69	3/4	2,097.08	3/4	1,739.47	3/4	1,381.86	3/4	1,024.32	3/4	667.14	3/4	316.96	3/4	21.34	3/4			
5	2,447.24	5	2,089.63	5	1,732.02	5	1,374.41	5	1,016.89	5	659.69	5	310.12	5	18.42	5			
1/4	2,439.79	1/4	2,082.18	1/4	1,724.57	1/4	1,366.96	1/4	1,009.45	1/4	652.24	1/4	303.29	1/4	15.51	1/4			
1/2	2,432.34	1/2	2,074.73	1/2	1,717.12	1/2	1,359.51	1/2	1,002.01	1/2	644.79	1/2	296.45	1/2	12.59	1/2			
3/4	2,424.89	3/4	2,067.28	3/4	1,709.67	3/4	1,352.06	3/4	994.58	3/4	637.34	3/4	289.61	3/4	9.67	3/4			
6	2,417.44	6	2,059.83	6	1,702.22	6	1,344.61	6	987.14	6	629.89	6	282.86	6	7.81	6			
1/4	2,409.99	1/4	2,052.38	1/4	1,694.77	1/4	1,337.16	1/4	979.71	1/4	622.44	1/4	276.11	1/4	5.95	1/4			
1/2	2,402.54	1/2	2,044.93	1/2	1,687.32	1/2	1,329.71	1/2	972.27	1/2	614.99	1/2	269.36	1/2	4.09	1/2			
3/4	2,395.09	3/4	2,037.48	3/4	1,679.87	3/4	1,322.26	3/4	964.83	3/4	607.54	3/4	262.61	3/4	2.23	3/4			
7	2,387.64	7	2,030.03	7	1,672.42	7	1,314.81	7	957.40	7	600.09	7	255.95	7		7			
1/4	2,380.19	1/4	2,022.58	1/4	1,664.97	1/4	1,307.36	1/4	949.96	1/4	592.64	1/4	249.28	1/4		1/4			
1/2	2,372.74	1/2	2,015.13	1/2	1,657.52	1/2	1,299.91	1/2	942.53	1/2	585.19	1/2	242.62	1/2		1/2			
3/4	2,365.29	3/4	2,007.68	3/4	1,650.07	3/4	1,292.46	3/4	935.09	3/4	577.74	3/4	235.96	3/4		3/4			
8	2,357.84	8	2,000.23	8	1,642.62	8	1,285.01	8	927.65	8	570.29	8	229.38	8		8			
1/4	2,350.39	1/4	1,992.78	1/4	1,635.17	1/4	1,277.56	1/4	920.22	1/4	562.84	1/4	222.80	1/4		1/4			
1/2	2,342.94	1/2	1,985.33	1/2	1,627.72	1/2	1,270.11	1/2	912.78	1/2	555.39	1/2	216.23	1/2		1/2			
3/4	2,335.49	3/4	1,977.88	3/4	1,620.27	3/4	1,262.66	3/4	905.35	3/4	547.94	3/4	209.65	3/4		3/4			
9	2,328.03	9	1,970.43	9	1,612.82	9	1,255.21	9	897.91	9	540.48	9	203.17	9		9			
1/4	2,320.58	1/4	1,962.98	1/4	1,605.37	1/4	1,247.76	1/4	890.47	1/4	533.03	1/4	196.68	1/4		1/4			
1/2	2,313.13	1/2	1,955.52	1/2	1,597.92	1/2	1,240.31	1/2	883.04	1/2	525.58	1/2	190.19	1/2		1/2			
3/4	2,305.68	3/4	1,948.07	3/4	1,590.47	3/4	1,232.86	3/4	875.60	3/4	518.13	3/4	183.70	3/4		3/4			
10	2,298.23	10	1,940.62	10	1,583.01	10	1,225.41	10	868.17	10	510.71	10	177.30	10		10			
1/4	2,290.78	1/4	1,933.17	1/4	1,575.56	1/4	1,217.96	1/4	860.73	1/4	503.28	1/4	170.90	1/4		1/4			
1/2	2,283.33	1/2	1,925.72	1/2	1,568.11	1/2	1,210.50	1/2	853.29	1/2	495.85	1/2	164.50	1/2		1/2			
3/4	2,275.88	3/4	1,918.27	3/4	1,560.66	3/4	1,203.05	3/4	845.86	3/4	488.42	3/4	158.10	3/4		3/4			
11	2,268.43	11	1,910.82	11	1,553.21	11	1,195.60	11	838.42	11	481.06	11	151.78	11		11			
1/4	2,260.98	1/4	1,903.37	1/4	1,545.76	1/4	1,188.15	1/4	830.99	1/4	473.70	1/4	145.47	1/4		1/4			
1/2	2,253.53	1/2	1,895.92	1/2	1,538.31	1/2	1,180.70	1/2	823.55	1/2	466.33	1/2	139.16	1/2		1/2			
3/4	2,246.08	3/4	1,888.47	3/4	1,530.86	3/4	1,173.25	3/4	816.11	3/4	458.97	3/4	132.84	3/4		3/4			

STRAPPED: 07/18/2018 CL
 CALCULATED: 07/19/2018 CL
 PRINTED: 07/20/2018 SW

CANCELS AND SUPERCEDES
 ALL PRIOR TO 07/2018

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "E2MS 311"

2 PORT ULLAGE TABLE

10" HATCH GAUGE HEIGHT 17'-06 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	5,106.43	0	4,803.48	0	4,445.83	0	4,088.18	0	3,729.62	0	3,370.92	0	3,012.22
1/4		1/4		1/4		1/4	5,104.34	1/4	4,796.03	1/4	4,438.38	1/4	4,080.73	1/4	3,722.14	1/4	3,363.44	1/4	3,004.74
1/2		1/2		1/2		1/2	5,102.25	1/2	4,788.58	1/2	4,430.93	1/2	4,073.28	1/2	3,714.67	1/2	3,355.97	1/2	2,997.27
3/4		3/4		3/4		3/4	5,100.15	3/4	4,781.13	3/4	4,423.48	3/4	4,065.82	3/4	3,707.20	3/4	3,348.50	3/4	2,989.80
1		1		1		1	5,096.82	1	4,773.68	1	4,416.03	1	4,058.37	1	3,699.72	1	3,341.03	1	2,982.33
1/4		1/4		1/4		1/4	5,093.48	1/4	4,766.23	1/4	4,408.58	1/4	4,050.91	1/4	3,692.25	1/4	3,333.55	1/4	2,974.85
1/2		1/2		1/2		1/2	5,090.14	1/2	4,758.78	1/2	4,401.12	1/2	4,043.46	1/2	3,684.78	1/2	3,326.08	1/2	2,967.38
3/4		3/4		3/4		3/4	5,086.81	3/4	4,751.33	3/4	4,393.67	3/4	4,036.01	3/4	3,677.31	3/4	3,318.61	3/4	2,959.91
2		2		2		2	5,082.22	2	4,743.87	2	4,386.22	2	4,028.53	2	3,669.83	2	3,311.13	2	2,952.43
1/4		1/4		1/4		1/4	5,077.64	1/4	4,736.42	1/4	4,378.77	1/4	4,021.06	1/4	3,662.36	1/4	3,303.66	1/4	2,944.96
1/2		1/2		1/2		1/2	5,073.06	1/2	4,728.97	1/2	4,371.32	1/2	4,013.59	1/2	3,654.89	1/2	3,296.19	1/2	2,937.49
3/4		3/4		3/4		3/4	5,068.48	3/4	4,721.52	3/4	4,363.87	3/4	4,006.11	3/4	3,647.41	3/4	3,288.72	3/4	2,930.02
3		3		3		3	5,062.65	3	4,714.07	3	4,356.42	3	3,998.64	3	3,639.94	3	3,281.24	3	2,922.54
1/4		1/4		1/4		1/4	5,056.82	1/4	4,706.62	1/4	4,348.97	1/4	3,991.17	1/4	3,632.47	1/4	3,273.77	1/4	2,915.07
1/2		1/2		1/2		1/2	5,050.99	1/2	4,699.17	1/2	4,341.52	1/2	3,983.69	1/2	3,625.00	1/2	3,266.30	1/2	2,907.60
3/4		3/4		3/4		3/4	5,045.16	3/4	4,691.72	3/4	4,334.06	3/4	3,976.22	3/4	3,617.52	3/4	3,258.82	3/4	2,900.12
4		4		4		4	5,038.28	4	4,684.27	4	4,326.61	4	3,968.75	4	3,610.05	4	3,251.35	4	2,892.65
1/4		1/4		1/4		1/4	5,031.40	1/4	4,676.81	1/4	4,319.16	1/4	3,961.28	1/4	3,602.58	1/4	3,243.88	1/4	2,885.18
1/2		1/2		1/2		1/2	5,024.52	1/2	4,669.36	1/2	4,311.71	1/2	3,953.80	1/2	3,595.10	1/2	3,236.40	1/2	2,877.71
3/4		3/4		3/4		3/4	5,017.63	3/4	4,661.91	3/4	4,304.26	3/4	3,946.33	3/4	3,587.63	3/4	3,228.93	3/4	2,870.23
5		5		5		5	5,010.29	5	4,654.46	5	4,296.81	5	3,938.86	5	3,580.16	5	3,221.46	5	2,862.76
1/4		1/4		1/4		1/4	5,002.95	1/4	4,647.01	1/4	4,289.36	1/4	3,931.38	1/4	3,572.69	1/4	3,213.99	1/4	2,855.29
1/2		1/2		1/2		1/2	4,995.61	1/2	4,639.56	1/2	4,281.91	1/2	3,923.91	1/2	3,565.21	1/2	3,206.51	1/2	2,847.81
3/4		3/4		3/4		3/4	4,988.26	3/4	4,632.11	3/4	4,274.46	3/4	3,916.44	3/4	3,557.74	3/4	3,199.04	3/4	2,840.34
6		6		6		6	4,980.89	6	4,624.66	6	4,267.00	6	3,908.97	6	3,550.27	6	3,191.57	6	2,832.87
1/4		1/4		1/4		1/4	4,973.51	1/4	4,617.21	1/4	4,259.55	1/4	3,901.49	1/4	3,542.79	1/4	3,184.09	1/4	2,825.40
1/2		1/2		1/2		1/2	4,966.14	1/2	4,609.76	1/2	4,252.10	1/2	3,894.02	1/2	3,535.32	1/2	3,176.62	1/2	2,817.92
3/4		3/4		3/4		3/4	4,958.76	3/4	4,602.30	3/4	4,244.65	3/4	3,886.55	3/4	3,527.85	3/4	3,169.15	3/4	2,810.45
7		7		7		7	4,951.38	7	4,594.85	7	4,237.20	7	3,879.07	7	3,520.38	7	3,161.68	7	2,802.98
1/4		1/4		1/4		1/4	4,944.00	1/4	4,587.40	1/4	4,229.75	1/4	3,871.60	1/4	3,512.90	1/4	3,154.20	1/4	2,795.50
1/2		1/2		1/2		1/2	4,936.61	1/2	4,579.95	1/2	4,222.30	1/2	3,864.13	1/2	3,505.43	1/2	3,146.73	1/2	2,788.03
3/4		3/4		3/4		3/4	4,929.23	3/4	4,572.50	3/4	4,214.85	3/4	3,856.66	3/4	3,497.96	3/4	3,139.26	3/4	2,780.56
8		8		8		8	4,921.85	8	4,565.05	8	4,207.40	8	3,849.18	8	3,490.48	8	3,131.78	8	2,773.09
1/4		1/4		1/4		1/4	4,914.46	1/4	4,557.60	1/4	4,199.94	1/4	3,841.71	1/4	3,483.01	1/4	3,124.31	1/4	2,765.61
1/2		1/2		1/2		1/2	4,907.08	1/2	4,550.15	1/2	4,192.49	1/2	3,834.24	1/2	3,475.54	1/2	3,116.84	1/2	2,758.14
3/4		3/4		3/4		3/4	4,899.69	3/4	4,542.70	3/4	4,185.04	3/4	3,826.76	3/4	3,468.06	3/4	3,109.37	3/4	2,750.67
9		9		9		9	4,892.30	9	4,535.24	9	4,177.59	9	3,819.29	9	3,460.59	9	3,101.89	9	2,743.19
1/4		1/4		1/4		1/4	4,884.92	1/4	4,527.79	1/4	4,170.14	1/4	3,811.82	1/4	3,453.12	1/4	3,094.42	1/4	2,735.72
1/2		1/2		1/2		1/2	4,877.53	1/2	4,520.34	1/2	4,162.69	1/2	3,804.35	1/2	3,445.65	1/2	3,086.95	1/2	2,728.25
3/4		3/4		3/4		3/4	4,870.15	3/4	4,512.89	3/4	4,155.24	3/4	3,796.87	3/4	3,438.17	3/4	3,079.47	3/4	2,720.77
10		10		10		10	4,862.76	10	4,505.44	10	4,147.79	10	3,789.40	10	3,430.70	10	3,072.00	10	2,713.30
1/4		1/4		1/4		1/4	4,855.38	1/4	4,497.99	1/4	4,140.34	1/4	3,781.93	1/4	3,423.23	1/4	3,064.53	1/4	2,705.83
1/2		1/2		1/2		1/2	4,847.99	1/2	4,490.54	1/2	4,132.88	1/2	3,774.45	1/2	3,415.75	1/2	3,057.06	1/2	2,698.36
3/4		3/4		3/4		3/4	4,840.61	3/4	4,483.09	3/4	4,125.43	3/4	3,766.98	3/4	3,408.28	3/4	3,049.58	3/4	2,690.88
11		11		11		11	4,833.19	11	4,475.64	11	4,117.98	11	3,759.51	11	3,400.81	11	3,042.11	11	2,683.41
1/4		1/4		1/4		1/4	4,825.77	1/4	4,468.18	1/4	4,110.53	1/4	3,752.03	1/4	3,393.34	1/4	3,034.64	1/4	2,675.94
1/2		1/2		1/2		1/2	4,818.35	1/2	4,460.73	1/2	4,103.08	1/2	3,744.56	1/2	3,385.86	1/2	3,027.16	1/2	2,668.46
3/4		3/4		3/4		3/4	5,108.52	3/4	4,810.93	3/4	4,453.28	3/4	4,095.63	3/4	3,737.09	3/4	3,378.39	3/4	2,660.99

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 LIP 10" HATCH ON EXPANSION DOME.
 GAUGE POINT: (10" HATCH) LOCATED 3'-00" OFF CENTERLINE AND 3'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77588
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BARGE "E2MS 311"

2 PORT ULLAGE TABLE 10" HATCH GAUGE HEIGHT 17'-06 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	2,653.52	0	2,294.82	0	1,936.12	0	1,577.42	0	1,218.72	0	873.03	0	515.79	0	157.09	0		0	
1/4	2,646.05	1/4	2,287.35	1/4	1,928.65	1/4	1,569.95	1/4	1,211.25	1/4	865.86	1/4	508.32	1/4	149.62	1/4		1/4	
1/2	2,638.57	1/2	2,279.87	1/2	1,921.17	1/2	1,562.48	1/2	1,203.78	1/2	858.68	1/2	500.84	1/2	142.15	1/2		1/2	
3/4	2,631.10	3/4	2,272.40	3/4	1,913.70	3/4	1,555.00	3/4	1,196.30	3/4	851.50	3/4	493.37	3/4	134.67	3/4		3/4	
1	2,623.63	1	2,264.93	1	1,906.23	1	1,547.53	1	1,188.97	1	844.17	1	485.90	1	127.21	1		1	
1/4	2,616.15	1/4	2,257.45	1/4	1,898.76	1/4	1,540.06	1/4	1,181.64	1/4	836.84	1/4	478.42	1/4	119.74	1/4		1/4	
1/2	2,608.68	1/2	2,249.98	1/2	1,891.28	1/2	1,532.58	1/2	1,174.31	1/2	829.51	1/2	470.95	1/2	112.27	1/2		1/2	
3/4	2,601.21	3/4	2,242.51	3/4	1,883.81	3/4	1,525.11	3/4	1,166.98	3/4	822.18	3/4	463.48	3/4	104.81	3/4		3/4	
2	2,593.74	2	2,235.04	2	1,876.34	2	1,517.64	2	1,159.79	2	814.71	2	456.01	2	97.36	2		2	
1/4	2,586.26	1/4	2,227.56	1/4	1,868.86	1/4	1,510.16	1/4	1,152.61	1/4	807.23	1/4	448.53	1/4	89.91	1/4		1/4	
1/2	2,578.79	1/2	2,220.09	1/2	1,861.39	1/2	1,502.69	1/2	1,145.43	1/2	799.76	1/2	441.06	1/2	82.46	1/2		1/2	
3/4	2,571.32	3/4	2,212.62	3/4	1,853.92	3/4	1,495.22	3/4	1,138.25	3/4	792.29	3/4	433.59	3/4	75.01	3/4		3/4	
3	2,563.84	3	2,205.14	3	1,846.45	3	1,487.75	3	1,131.07	3	784.81	3	426.11	3	68.02	3		3	
1/4	2,556.37	1/4	2,197.67	1/4	1,838.97	1/4	1,480.27	1/4	1,123.90	1/4	777.34	1/4	418.64	1/4	61.04	1/4		1/4	
1/2	2,548.90	1/2	2,190.20	1/2	1,831.50	1/2	1,472.80	1/2	1,116.72	1/2	769.87	1/2	411.17	1/2	54.05	1/2		1/2	
3/4	2,541.43	3/4	2,182.73	3/4	1,824.03	3/4	1,465.33	3/4	1,109.55	3/4	762.40	3/4	403.70	3/4	47.06	3/4		3/4	
4	2,533.95	4	2,175.25	4	1,816.55	4	1,457.85	4	1,102.38	4	754.92	4	396.22	4	41.46	4		4	
1/4	2,526.48	1/4	2,167.78	1/4	1,809.08	1/4	1,450.38	1/4	1,095.21	1/4	747.45	1/4	388.75	1/4	35.85	1/4		1/4	
1/2	2,519.01	1/2	2,160.31	1/2	1,801.61	1/2	1,442.91	1/2	1,088.04	1/2	739.98	1/2	381.28	1/2	30.25	1/2		1/2	
3/4	2,511.53	3/4	2,152.83	3/4	1,794.14	3/4	1,435.44	3/4	1,080.87	3/4	732.50	3/4	373.80	3/4	24.65	3/4		3/4	
5	2,504.06	5	2,145.36	5	1,786.66	5	1,427.96	5	1,073.70	5	725.03	5	366.33	5	20.91	5		5	
1/4	2,496.59	1/4	2,137.89	1/4	1,779.19	1/4	1,420.49	1/4	1,066.53	1/4	717.56	1/4	358.86	1/4	17.17	1/4		1/4	
1/2	2,489.11	1/2	2,130.42	1/2	1,771.72	1/2	1,413.02	1/2	1,059.37	1/2	710.08	1/2	351.39	1/2	13.44	1/2		1/2	
3/4	2,481.64	3/4	2,122.94	3/4	1,764.24	3/4	1,405.54	3/4	1,052.20	3/4	702.61	3/4	343.91	3/4	9.70	3/4		3/4	
6	2,474.17	6	2,115.47	6	1,756.77	6	1,398.07	6	1,045.03	6	695.14	6	336.44	6	7.83	6		6	
1/4	2,466.70	1/4	2,108.00	1/4	1,749.30	1/4	1,390.60	1/4	1,037.87	1/4	687.67	1/4	328.97	1/4	5.97	1/4		1/4	
1/2	2,459.22	1/2	2,100.52	1/2	1,741.82	1/2	1,383.13	1/2	1,030.70	1/2	680.19	1/2	321.49	1/2	4.10	1/2		1/2	
3/4	2,451.75	3/4	2,093.05	3/4	1,734.35	3/4	1,375.65	3/4	1,023.54	3/4	672.72	3/4	314.02	3/4	2.23	3/4		3/4	
7	2,444.28	7	2,085.58	7	1,726.88	7	1,368.18	7	1,016.37	7	665.25	7	306.55	7		7		7	
1/4	2,436.80	1/4	2,078.11	1/4	1,719.41	1/4	1,360.71	1/4	1,009.20	1/4	657.77	1/4	299.08	1/4		1/4		1/4	
1/2	2,429.33	1/2	2,070.63	1/2	1,711.93	1/2	1,353.23	1/2	1,002.04	1/2	650.30	1/2	291.60	1/2		1/2		1/2	
3/4	2,421.86	3/4	2,063.16	3/4	1,704.46	3/4	1,345.76	3/4	994.87	3/4	642.83	3/4	284.13	3/4		3/4		3/4	
8	2,414.39	8	2,055.69	8	1,696.99	8	1,338.29	8	987.71	8	635.36	8	276.66	8		8		8	
1/4	2,406.91	1/4	2,048.21	1/4	1,689.51	1/4	1,330.82	1/4	980.54	1/4	627.88	1/4	269.18	1/4		1/4		1/4	
1/2	2,399.44	1/2	2,040.74	1/2	1,682.04	1/2	1,323.34	1/2	973.37	1/2	620.41	1/2	261.71	1/2		1/2		1/2	
3/4	2,391.97	3/4	2,033.27	3/4	1,674.57	3/4	1,315.87	3/4	966.21	3/4	612.94	3/4	254.24	3/4		3/4		3/4	
9	2,384.49	9	2,025.80	9	1,667.10	9	1,308.40	9	959.04	9	605.46	9	246.77	9		9		9	
1/4	2,377.02	1/4	2,018.32	1/4	1,659.62	1/4	1,300.92	1/4	951.87	1/4	597.99	1/4	239.29	1/4		1/4		1/4	
1/2	2,369.55	1/2	2,010.85	1/2	1,652.15	1/2	1,293.45	1/2	944.71	1/2	590.52	1/2	231.82	1/2		1/2		1/2	
3/4	2,362.08	3/4	2,003.38	3/4	1,644.68	3/4	1,285.98	3/4	937.54	3/4	583.05	3/4	224.35	3/4		3/4		3/4	
10	2,354.60	10	1,995.90	10	1,637.20	10	1,278.51	10	930.38	10	575.57	10	216.87	10		10		10	
1/4	2,347.13	1/4	1,988.43	1/4	1,629.73	1/4	1,271.03	1/4	923.21	1/4	568.10	1/4	209.40	1/4		1/4		1/4	
1/2	2,339.66	1/2	1,980.96	1/2	1,622.26	1/2	1,263.56	1/2	916.04	1/2	560.63	1/2	201.93	1/2		1/2		1/2	
3/4	2,332.18	3/4	1,973.48	3/4	1,614.79	3/4	1,256.09	3/4	908.88	3/4	553.15	3/4	194.45	3/4		3/4		3/4	
11	2,324.71	11	1,966.01	11	1,607.31	11	1,248.61	11	901.71	11	545.68	11	186.98	11		11		11	
1/4	2,317.24	1/4	1,958.54	1/4	1,599.84	1/4	1,241.14	1/4	894.54	1/4	538.21	1/4	179.51	1/4		1/4		1/4	
1/2	2,309.77	1/2	1,951.07	1/2	1,592.37	1/2	1,233.67	1/2	887.38	1/2	530.74	1/2	172.04	1/2		1/2		1/2	
3/4	2,302.29	3/4	1,943.59	3/4	1,584.89	3/4	1,226.19	3/4	880.21	3/4	523.26	3/4	164.56	3/4		3/4		3/4	

STRAPPED: 07/18/2018 CL
CALCULATED: 07/19/2018 CL
PRINTED: 07/20/2018 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2018

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "E2MS 311"

2 STBD ULLAGE TABLE

10" HATCH GAUGE HEIGHT 17'-06 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	5,121.30	0	4,818.60	0	4,460.91	0	4,103.23	0	3,744.62	0	3,385.89	0	3,027.17
1/4		1/4		1/4		1/4	5,119.21	1/4	4,811.14	1/4	4,453.46	1/4	4,095.78	1/4	3,737.15	1/4	3,378.42	1/4	3,019.69
1/2		1/2		1/2		1/2	5,117.13	1/2	4,803.69	1/2	4,446.01	1/2	4,088.33	1/2	3,729.67	1/2	3,370.95	1/2	3,012.22
3/4		3/4		3/4		3/4	5,115.04	3/4	4,796.24	3/4	4,438.56	3/4	4,080.88	3/4	3,722.20	3/4	3,363.47	3/4	3,004.75
1		1		1		1	5,111.71	1	4,788.79	1	4,431.11	1	4,073.42	1	3,714.73	1	3,356.00	1	2,997.27
1/4		1/4		1/4		1/4	5,108.38	1/4	4,781.34	1/4	4,423.66	1/4	4,065.96	1/4	3,707.25	1/4	3,348.53	1/4	2,989.80
1/2		1/2		1/2		1/2	5,105.05	1/2	4,773.89	1/2	4,416.20	1/2	4,058.50	1/2	3,699.78	1/2	3,341.05	1/2	2,982.32
3/4		3/4		3/4		3/4	5,101.72	3/4	4,766.43	3/4	4,408.75	3/4	4,051.04	3/4	3,692.31	3/4	3,333.58	3/4	2,974.85
2		2		2		2	5,097.14	2	4,758.98	2	4,401.30	2	4,043.56	2	3,684.83	2	3,326.11	2	2,967.38
1/4		1/4		1/4		1/4	5,092.56	1/4	4,751.53	1/4	4,393.85	1/4	4,036.09	1/4	3,677.36	1/4	3,318.63	1/4	2,959.90
1/2		1/2		1/2		1/2	5,087.99	1/2	4,744.08	1/2	4,386.40	1/2	4,028.61	1/2	3,669.89	1/2	3,311.16	1/2	2,952.43
3/4		3/4		3/4		3/4	5,083.41	3/4	4,736.63	3/4	4,378.95	3/4	4,021.14	3/4	3,662.41	3/4	3,303.69	3/4	2,944.96
3		3		3		3	5,077.59	3	4,729.18	3	4,371.49	3	4,013.67	3	3,654.94	3	3,296.21	3	2,937.48
1/4		1/4		1/4		1/4	5,071.77	1/4	4,721.72	1/4	4,364.04	1/4	4,006.19	1/4	3,647.47	1/4	3,288.74	1/4	2,930.01
1/2		1/2		1/2		1/2	5,065.94	1/2	4,714.27	1/2	4,356.59	1/2	3,998.72	1/2	3,639.99	1/2	3,281.26	1/2	2,922.54
3/4		3/4		3/4		3/4	5,060.12	3/4	4,706.82	3/4	4,349.14	3/4	3,991.25	3/4	3,632.52	3/4	3,273.79	3/4	2,915.06
4		4		4		4	5,053.24	4	4,699.37	4	4,341.69	4	3,983.77	4	3,625.05	4	3,266.32	4	2,907.59
1/4		1/4		1/4		1/4	5,046.36	1/4	4,691.92	1/4	4,334.24	1/4	3,976.30	1/4	3,617.57	1/4	3,258.84	1/4	2,900.12
1/2		1/2		1/2		1/2	5,039.49	1/2	4,684.47	1/2	4,326.78	1/2	3,968.83	1/2	3,610.10	1/2	3,251.37	1/2	2,892.64
3/4		3/4		3/4		3/4	5,032.61	3/4	4,677.01	3/4	4,319.33	3/4	3,961.35	3/4	3,602.63	3/4	3,243.90	3/4	2,885.17
5		5		5		5	5,025.27	5	4,669.56	5	4,311.88	5	3,953.88	5	3,595.15	5	3,236.42	5	2,877.70
1/4		1/4		1/4		1/4	5,017.93	1/4	4,662.11	1/4	4,304.43	1/4	3,946.41	1/4	3,587.68	1/4	3,228.95	1/4	2,870.22
1/2		1/2		1/2		1/2	5,010.60	1/2	4,654.66	1/2	4,296.98	1/2	3,938.93	1/2	3,580.20	1/2	3,221.48	1/2	2,862.75
3/4		3/4		3/4		3/4	5,003.26	3/4	4,647.21	3/4	4,289.53	3/4	3,931.46	3/4	3,572.73	3/4	3,214.00	3/4	2,855.28
6		6		6		6	4,995.89	6	4,639.76	6	4,282.07	6	3,923.99	6	3,565.26	6	3,206.53	6	2,847.80
1/4		1/4		1/4		1/4	4,988.52	1/4	4,632.30	1/4	4,274.62	1/4	3,916.51	1/4	3,557.78	1/4	3,199.06	1/4	2,840.33
1/2		1/2		1/2		1/2	4,981.14	1/2	4,624.85	1/2	4,267.17	1/2	3,909.04	1/2	3,550.31	1/2	3,191.58	1/2	2,832.85
3/4		3/4		3/4		3/4	4,973.77	3/4	4,617.40	3/4	4,259.72	3/4	3,901.57	3/4	3,542.84	3/4	3,184.11	3/4	2,825.38
7		7		7		7	4,966.39	7	4,609.95	7	4,252.27	7	3,894.09	7	3,535.36	7	3,176.64	7	2,817.91
1/4		1/4		1/4		1/4	4,959.01	1/4	4,602.50	1/4	4,244.82	1/4	3,886.62	1/4	3,527.89	1/4	3,169.16	1/4	2,810.43
1/2		1/2		1/2		1/2	4,951.63	1/2	4,595.04	1/2	4,237.36	1/2	3,879.14	1/2	3,520.42	1/2	3,161.69	1/2	2,802.96
3/4		3/4		3/4		3/4	4,944.25	3/4	4,587.59	3/4	4,229.91	3/4	3,871.67	3/4	3,512.94	3/4	3,154.22	3/4	2,795.49
8		8		8		8	4,936.87	8	4,580.14	8	4,222.46	8	3,864.20	8	3,505.47	8	3,146.74	8	2,788.01
1/4		1/4		1/4		1/4	4,929.50	1/4	4,572.69	1/4	4,215.01	1/4	3,856.72	1/4	3,498.00	1/4	3,139.27	1/4	2,780.54
1/2		1/2		1/2		1/2	4,922.12	1/2	4,565.24	1/2	4,207.56	1/2	3,849.25	1/2	3,490.52	1/2	3,131.79	1/2	2,773.07
3/4		3/4		3/4		3/4	4,914.74	3/4	4,557.79	3/4	4,200.10	3/4	3,841.78	3/4	3,483.05	3/4	3,124.32	3/4	2,765.59
9		9		9		9	4,907.36	9	4,550.33	9	4,192.65	9	3,834.30	9	3,475.58	9	3,116.85	9	2,758.12
1/4		1/4		1/4		1/4	4,899.98	1/4	4,542.88	1/4	4,185.20	1/4	3,826.83	1/4	3,468.10	1/4	3,109.37	1/4	2,750.65
1/2		1/2		1/2		1/2	4,892.60	1/2	4,535.43	1/2	4,177.75	1/2	3,819.36	1/2	3,460.63	1/2	3,101.90	1/2	2,743.17
3/4		3/4		3/4		3/4	4,885.23	3/4	4,527.98	3/4	4,170.30	3/4	3,811.88	3/4	3,453.16	3/4	3,094.43	3/4	2,735.70
10		10		10		10	4,877.85	10	4,520.53	10	4,162.85	10	3,804.41	10	3,445.68	10	3,086.95	10	2,728.23
1/4		1/4		1/4		1/4	4,870.47	1/4	4,513.08	1/4	4,155.39	1/4	3,796.94	1/4	3,438.21	1/4	3,079.48	1/4	2,720.75
1/2		1/2		1/2		1/2	4,863.09	1/2	4,505.62	1/2	4,147.94	1/2	3,789.46	1/2	3,430.73	1/2	3,072.01	1/2	2,713.28
3/4		3/4		3/4		3/4	4,855.71	3/4	4,498.17	3/4	4,140.49	3/4	3,781.99	3/4	3,423.26	3/4	3,064.53	3/4	2,705.81
11		11		11		11	4,848.30	11	4,490.72	11	4,133.04	11	3,774.52	11	3,415.79	11	3,057.06	11	2,698.33
1/4		1/4		1/4		1/4	4,840.88	1/4	4,483.27	1/4	4,125.59	1/4	3,767.04	1/4	3,408.31	1/4	3,049.59	1/4	2,690.86
1/2		1/2		1/2		1/2	4,833.46	1/2	4,475.82	1/2	4,118.14	1/2	3,759.57	1/2	3,400.84	1/2	3,042.11	1/2	2,683.38
3/4		3/4		3/4		3/4	5,123.38	3/4	4,826.05	3/4	4,468.37	3/4	4,110.68	3/4	3,752.10	3/4	3,393.37	3/4	3,034.64

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 LIP 10" HATCH ON EXPANSION DOME.
 GAUGE POINT: (10" HATCH) LOCATED 3'-00" OFF CENTERLINE AND 3'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77588
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BARGE "E2MS 311"

2 STBD

ULLAGE TABLE

10" HATCH

GAUGE HEIGHT 17'-06 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	2,668.44	0	2,309.62	0	1,950.79	0	1,591.96	0	1,233.13	0	874.79	0	515.98	0	157.15	0		0	
1/4	2,660.97	1/4	2,302.15	1/4	1,943.32	1/4	1,584.49	1/4	1,225.66	1/4	867.32	1/4	508.51	1/4	149.68	1/4		1/4	
1/2	2,653.50	1/2	2,294.67	1/2	1,935.84	1/2	1,577.01	1/2	1,218.18	1/2	859.85	1/2	501.03	1/2	142.20	1/2		1/2	
3/4	2,646.02	3/4	2,287.19	3/4	1,928.37	3/4	1,569.54	3/4	1,210.71	3/4	852.38	3/4	493.55	3/4	134.73	3/4		3/4	
1	2,638.55	1	2,279.72	1	1,920.89	1	1,562.06	1	1,203.23	1	844.91	1	486.08	1	127.26	1		1	
1/4	2,631.07	1/4	2,272.24	1/4	1,913.41	1/4	1,554.59	1/4	1,195.76	1/4	837.43	1/4	478.60	1/4	119.79	1/4		1/4	
1/2	2,623.60	1/2	2,264.77	1/2	1,905.94	1/2	1,547.11	1/2	1,188.28	1/2	829.96	1/2	471.13	1/2	112.32	1/2		1/2	
3/4	2,616.12	3/4	2,257.29	3/4	1,898.46	3/4	1,539.63	3/4	1,180.81	3/4	822.48	3/4	463.65	3/4	104.85	3/4		3/4	
2	2,608.65	2	2,249.82	2	1,890.99	2	1,532.16	2	1,173.33	2	815.01	2	456.18	2	97.40	2		2	
1/4	2,601.17	1/4	2,242.34	1/4	1,883.51	1/4	1,524.68	1/4	1,165.86	1/4	807.53	1/4	448.70	1/4	89.95	1/4		1/4	
1/2	2,593.69	1/2	2,234.87	1/2	1,876.04	1/2	1,517.21	1/2	1,158.39	1/2	800.05	1/2	441.23	1/2	82.49	1/2		1/2	
3/4	2,586.22	3/4	2,227.39	3/4	1,868.56	3/4	1,509.73	3/4	1,150.91	3/4	792.58	3/4	433.75	3/4	75.04	3/4		3/4	
3	2,578.74	3	2,219.91	3	1,861.09	3	1,502.26	3	1,143.44	3	785.10	3	426.27	3	68.05	3		3	
1/4	2,571.27	1/4	2,212.44	1/4	1,853.61	1/4	1,494.78	1/4	1,135.97	1/4	777.63	1/4	418.80	1/4	61.06	1/4		1/4	
1/2	2,563.79	1/2	2,204.96	1/2	1,846.13	1/2	1,487.31	1/2	1,128.50	1/2	770.15	1/2	411.32	1/2	54.07	1/2		1/2	
3/4	2,556.32	3/4	2,197.49	3/4	1,838.66	3/4	1,479.83	3/4	1,121.03	3/4	762.68	3/4	403.85	3/4	47.08	3/4		3/4	
4	2,548.84	4	2,190.01	4	1,831.18	4	1,472.35	4	1,113.57	4	755.20	4	396.37	4	41.48	4		4	
1/4	2,541.36	1/4	2,182.54	1/4	1,823.71	1/4	1,464.88	1/4	1,106.10	1/4	747.72	1/4	388.90	1/4	35.87	1/4		1/4	
1/2	2,533.89	1/2	2,175.06	1/2	1,816.23	1/2	1,457.40	1/2	1,098.64	1/2	740.25	1/2	381.42	1/2	30.27	1/2		1/2	
3/4	2,526.41	3/4	2,167.58	3/4	1,808.76	3/4	1,449.93	3/4	1,091.17	3/4	732.77	3/4	373.94	3/4	24.66	3/4		3/4	
5	2,518.94	5	2,160.11	5	1,801.28	5	1,442.45	5	1,083.71	5	725.30	5	366.47	5	20.92	5		5	
1/4	2,511.46	1/4	2,152.63	1/4	1,793.80	1/4	1,434.98	1/4	1,076.25	1/4	717.82	1/4	358.99	1/4	17.19	1/4		1/4	
1/2	2,503.99	1/2	2,145.16	1/2	1,786.33	1/2	1,427.50	1/2	1,068.79	1/2	710.35	1/2	351.52	1/2	13.45	1/2		1/2	
3/4	2,496.51	3/4	2,137.68	3/4	1,778.85	3/4	1,420.02	3/4	1,061.33	3/4	702.87	3/4	344.04	3/4	9.71	3/4		3/4	
6	2,489.04	6	2,130.21	6	1,771.38	6	1,412.55	6	1,053.87	6	695.40	6	336.57	6	7.84	6		6	
1/4	2,481.56	1/4	2,122.73	1/4	1,763.90	1/4	1,405.07	1/4	1,046.40	1/4	687.92	1/4	329.09	1/4	5.97	1/4		1/4	
1/2	2,474.08	1/2	2,115.26	1/2	1,756.43	1/2	1,397.60	1/2	1,038.94	1/2	680.44	1/2	321.62	1/2	4.10	1/2		1/2	
3/4	2,466.61	3/4	2,107.78	3/4	1,748.95	3/4	1,390.12	3/4	1,031.48	3/4	672.97	3/4	314.14	3/4	2.23	3/4		3/4	
7	2,459.13	7	2,100.30	7	1,741.48	7	1,382.65	7	1,024.02	7	665.49	7	306.66	7		7		7	
1/4	2,451.66	1/4	2,092.83	1/4	1,734.00	1/4	1,375.17	1/4	1,016.56	1/4	658.02	1/4	299.19	1/4		1/4		1/4	
1/2	2,444.18	1/2	2,085.35	1/2	1,726.52	1/2	1,367.70	1/2	1,009.10	1/2	650.54	1/2	291.71	1/2		1/2		1/2	
3/4	2,436.71	3/4	2,077.88	3/4	1,719.05	3/4	1,360.22	3/4	1,001.64	3/4	643.07	3/4	284.24	3/4		3/4		3/4	
8	2,429.23	8	2,070.40	8	1,711.57	8	1,352.74	8	994.17	8	635.59	8	276.76	8		8		8	
1/4	2,421.76	1/4	2,062.93	1/4	1,704.10	1/4	1,345.27	1/4	986.71	1/4	628.12	1/4	269.29	1/4		1/4		1/4	
1/2	2,414.28	1/2	2,055.45	1/2	1,696.62	1/2	1,337.79	1/2	979.25	1/2	620.64	1/2	261.81	1/2		1/2		1/2	
3/4	2,406.80	3/4	2,047.98	3/4	1,689.15	3/4	1,330.32	3/4	971.79	3/4	613.16	3/4	254.34	3/4		3/4		3/4	
9	2,399.33	9	2,040.50	9	1,681.67	9	1,322.84	9	964.33	9	605.69	9	246.86	9		9		9	
1/4	2,391.85	1/4	2,033.02	1/4	1,674.20	1/4	1,315.37	1/4	956.87	1/4	598.21	1/4	239.38	1/4		1/4		1/4	
1/2	2,384.38	1/2	2,025.55	1/2	1,666.72	1/2	1,307.89	1/2	949.41	1/2	590.74	1/2	231.91	1/2		1/2		1/2	
3/4	2,376.90	3/4	2,018.07	3/4	1,659.24	3/4	1,300.42	3/4	941.94	3/4	583.26	3/4	224.43	3/4		3/4		3/4	
10	2,369.43	10	2,010.60	10	1,651.77	10	1,292.94	10	934.48	10	575.79	10	216.96	10		10		10	
1/4	2,361.95	1/4	2,003.12	1/4	1,644.29	1/4	1,285.46	1/4	927.02	1/4	568.31	1/4	209.48	1/4		1/4		1/4	
1/2	2,354.47	1/2	1,995.65	1/2	1,636.82	1/2	1,277.99	1/2	919.56	1/2	560.83	1/2	202.01	1/2		1/2		1/2	
3/4	2,347.00	3/4	1,988.17	3/4	1,629.34	3/4	1,270.51	3/4	912.10	3/4	553.36	3/4	194.53	3/4		3/4		3/4	
11	2,339.52	11	1,980.69	11	1,621.87	11	1,263.04	11	904.64	11	545.88	11	187.05	11		11		11	
1/4	2,332.05	1/4	1,973.22	1/4	1,614.39	1/4	1,255.56	1/4	897.18	1/4	538.41	1/4	179.58	1/4		1/4		1/4	
1/2	2,324.57	1/2	1,965.74	1/2	1,606.91	1/2	1,248.09	1/2	889.71	1/2	530.93	1/2	172.10	1/2		1/2		1/2	
3/4	2,317.10	3/4	1,958.27	3/4	1,599.44	3/4	1,240.61	3/4	882.25	3/4	523.46	3/4	164.63	3/4		3/4		3/4	

STRAPPED: 07/18/2018 CL
 CALCULATED: 07/19/2018 CL
 PRINTED: 07/20/2018 SW

CANCELS AND SUPERCEDES
 ALL PRIOR TO 07/2018

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "E2MS 311"

3 PORT ULLAGE TABLE

10" HATCH GAUGE HEIGHT 17'-07"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	4,467.99	0	4,286.07	0	4,067.24	0	3,848.40	0	3,629.04	0	3,359.13	0	3,003.46
1/4		1/4		1/4		1/4	4,466.71	1/4	4,281.51	1/4	4,062.68	1/4	3,843.85	1/4	3,624.46	1/4	3,351.74	1/4	2,996.04
1/2		1/2		1/2		1/2	4,465.44	1/2	4,276.95	1/2	4,058.12	1/2	3,839.29	1/2	3,619.89	1/2	3,344.35	1/2	2,988.62
3/4		3/4		3/4		3/4	4,464.16	3/4	4,272.39	3/4	4,053.56	3/4	3,834.73	3/4	3,615.32	3/4	3,336.96	3/4	2,981.20
1		1		1		1	4,462.89	1	4,267.83	1	4,049.00	1	3,830.17	1	3,610.75	1	3,329.56	1	2,973.77
1/4		1/4		1/4		1/4	4,460.85	1/4	4,263.27	1/4	4,044.44	1/4	3,825.60	1/4	3,606.18	1/4	3,322.17	1/4	2,966.35
1/2		1/2		1/2		1/2	4,458.81	1/2	4,258.71	1/2	4,039.88	1/2	3,821.04	1/2	3,601.61	1/2	3,314.78	1/2	2,958.93
3/4		3/4		3/4		3/4	4,456.77	3/4	4,254.16	3/4	4,035.32	3/4	3,816.47	3/4	3,597.03	3/4	3,307.38	3/4	2,951.50
2		2		2		2	4,454.73	2	4,249.60	2	4,030.76	2	3,811.90	2	3,592.46	2	3,299.99	2	2,944.08
1/4		1/4		1/4		1/4	4,451.93	1/4	4,245.04	1/4	4,026.21	1/4	3,807.33	1/4	3,587.89	1/4	3,292.59	1/4	2,936.66
1/2		1/2		1/2		1/2	4,449.13	1/2	4,240.48	1/2	4,021.65	1/2	3,802.76	1/2	3,583.32	1/2	3,285.20	1/2	2,929.24
3/4		3/4		3/4		3/4	4,446.33	3/4	4,235.92	3/4	4,017.09	3/4	3,798.19	3/4	3,578.75	3/4	3,277.80	3/4	2,921.81
3		3		3		3	4,443.53	3	4,231.36	3	4,012.53	3	3,793.62	3	3,574.18	3	3,270.41	3	2,914.39
1/4		1/4		1/4		1/4	4,439.97	1/4	4,226.80	1/4	4,007.97	1/4	3,789.05	1/4	3,569.60	1/4	3,263.01	1/4	2,906.97
1/2		1/2		1/2		1/2	4,436.41	1/2	4,222.24	1/2	4,003.41	1/2	3,784.47	1/2	3,565.03	1/2	3,255.62	1/2	2,899.54
3/4		3/4		3/4		3/4	4,432.85	3/4	4,217.68	3/4	3,998.85	3/4	3,779.90	3/4	3,560.46	3/4	3,248.22	3/4	2,892.12
4		4		4		4	4,429.28	4	4,213.12	4	3,994.29	4	3,775.33	4	3,555.89	4	3,240.83	4	2,884.70
1/4		1/4		1/4		1/4	4,425.08	1/4	4,208.57	1/4	3,989.73	1/4	3,770.76	1/4	3,551.20	1/4	3,233.44	1/4	2,877.28
1/2		1/2		1/2		1/2	4,420.87	1/2	4,204.01	1/2	3,985.17	1/2	3,766.19	1/2	3,546.51	1/2	3,226.04	1/2	2,869.85
3/4		3/4		3/4		3/4	4,416.66	3/4	4,199.45	3/4	3,980.62	3/4	3,761.62	3/4	3,541.81	3/4	3,218.65	3/4	2,862.43
5		5		5		5	4,412.45	5	4,194.89	5	3,976.06	5	3,757.04	5	3,537.12	5	3,211.25	5	2,855.01
1/4		1/4		1/4		1/4	4,407.96	1/4	4,190.33	1/4	3,971.50	1/4	3,752.47	1/4	3,532.09	1/4	3,203.84	1/4	2,847.58
1/2		1/2		1/2		1/2	4,403.47	1/2	4,185.77	1/2	3,966.94	1/2	3,747.90	1/2	3,527.06	1/2	3,196.43	1/2	2,840.16
3/4		3/4		3/4		3/4	4,398.98	3/4	4,181.21	3/4	3,962.38	3/4	3,743.33	3/4	3,522.03	3/4	3,189.02	3/4	2,832.74
6		6		6		6	4,394.50	6	4,176.65	6	3,957.82	6	3,738.76	6	3,516.99	6	3,181.61	6	2,825.31
1/4		1/4		1/4		1/4	4,389.98	1/4	4,172.09	1/4	3,953.26	1/4	3,734.19	1/4	3,511.50	1/4	3,174.19	1/4	2,817.89
1/2		1/2		1/2		1/2	4,385.47	1/2	4,167.53	1/2	3,948.70	1/2	3,729.61	1/2	3,506.01	1/2	3,166.77	1/2	2,810.47
3/4		3/4		3/4		3/4	4,380.96	3/4	4,162.98	3/4	3,944.14	3/4	3,725.04	3/4	3,500.52	3/4	3,159.35	3/4	2,803.05
7		7		7		7	4,376.45	7	4,158.42	7	3,939.58	7	3,720.47	7	3,495.02	7	3,151.92	7	2,795.62
1/4		1/4		1/4		1/4	4,371.94	1/4	4,153.86	1/4	3,935.03	1/4	3,715.90	1/4	3,489.06	1/4	3,144.50	1/4	2,788.20
1/2		1/2		1/2		1/2	4,367.42	1/2	4,149.30	1/2	3,930.47	1/2	3,711.33	1/2	3,483.09	1/2	3,137.08	1/2	2,780.78
3/4		3/4		3/4		3/4	4,362.91	3/4	4,144.74	3/4	3,925.91	3/4	3,706.75	3/4	3,477.13	3/4	3,129.65	3/4	2,773.35
8		8		8		8	4,358.39	8	4,140.18	8	3,921.35	8	3,702.18	8	3,471.16	8	3,122.23	8	2,765.93
1/4		1/4		1/4		1/4	4,353.88	1/4	4,135.62	1/4	3,916.79	1/4	3,697.61	1/4	3,464.72	1/4	3,114.81	1/4	2,758.51
1/2		1/2		1/2		1/2	4,349.36	1/2	4,131.06	1/2	3,912.23	1/2	3,693.04	1/2	3,458.28	1/2	3,107.38	1/2	2,751.09
3/4		3/4		3/4		3/4	4,344.85	3/4	4,126.50	3/4	3,907.67	3/4	3,688.47	3/4	3,451.85	3/4	3,099.96	3/4	2,743.66
9		9		9		9	4,340.33	9	4,121.94	9	3,903.11	9	3,683.90	9	3,445.41	9	3,092.54	9	2,736.24
1/4		1/4		1/4		1/4	4,335.82	1/4	4,117.39	1/4	3,898.55	1/4	3,679.32	1/4	3,438.49	1/4	3,085.12	1/4	2,728.82
1/2		1/2		1/2		1/2	4,331.31	1/2	4,112.83	1/2	3,893.99	1/2	3,674.75	1/2	3,431.58	1/2	3,077.69	1/2	2,721.39
3/4		3/4		3/4		3/4	4,326.79	3/4	4,108.27	3/4	3,889.44	3/4	3,670.18	3/4	3,424.66	3/4	3,070.27	3/4	2,713.97
10		10		10		10	4,322.28	10	4,103.71	10	3,884.88	10	3,665.61	10	3,417.75	10	3,062.85	10	2,706.55
1/4		1/4		1/4		1/4	4,317.76	1/4	4,099.15	1/4	3,880.32	1/4	3,661.04	1/4	3,410.48	1/4	3,055.42	1/4	2,699.13
1/2		1/2		1/2		1/2	4,313.25	1/2	4,094.59	1/2	3,875.76	1/2	3,656.47	1/2	3,403.21	1/2	3,048.00	1/2	2,691.70
3/4		3/4		3/4		3/4	4,308.74	3/4	4,090.03	3/4	3,871.20	3/4	3,651.89	3/4	3,395.95	3/4	3,040.58	3/4	2,684.28
11		11		11		11	4,304.22	11	4,085.47	11	3,866.64	11	3,647.32	11	3,388.68	11	3,033.16	11	2,676.86
1/4		1/4		1/4		1/4	4,299.68	1/4	4,080.91	1/4	3,862.08	1/4	3,642.75	1/4	3,381.29	1/4	3,025.73	1/4	2,669.43
1/2		1/2		1/2		1/2	4,295.15	1/2	4,076.35	1/2	3,857.52	1/2	3,638.18	1/2	3,373.91	1/2	3,018.31	1/2	2,662.01
3/4		3/4		3/4		3/4	4,290.61	3/4	4,071.80	3/4	3,852.96	3/4	3,633.61	3/4	3,366.52	3/4	3,010.89	3/4	2,654.59

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 LIP 10" HATCH ON EXPANSION DOME.
 GAUGE POINT: (10" HATCH) LOCATED 3'-00" OFF CENTERLINE AND 3'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
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 Pearland, Texas 77588
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BARGE "E2MS 311"

3 PORT ULLAGE TABLE 10" HATCH GAUGE HEIGHT 17'-07"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	2,647.17	0	2,290.64	0	1,934.45	0	1,578.19	0	1,221.50	0	876.14	0	521.15	0	164.02	0			
1/4	2,639.74	1/4	2,283.21	1/4	1,927.04	1/4	1,570.75	1/4	1,214.07	1/4	868.99	1/4	513.72	1/4	156.57	1/4			
1/2	2,632.32	1/2	2,275.78	1/2	1,919.62	1/2	1,563.32	1/2	1,206.64	1/2	861.84	1/2	506.28	1/2	149.12	1/2			
3/4	2,624.89	3/4	2,268.35	3/4	1,912.21	3/4	1,555.89	3/4	1,199.20	3/4	854.69	3/4	498.85	3/4	141.68	3/4			
1	2,617.47	1	2,260.92	1	1,904.79	1	1,548.46	1	1,191.77	1	847.54	1	491.41	1	134.23	1			
1/4	2,610.05	1/4	2,253.50	1/4	1,897.38	1/4	1,541.03	1/4	1,184.45	1/4	840.27	1/4	483.97	1/4	126.79	1/4			
1/2	2,602.62	1/2	2,246.07	1/2	1,889.96	1/2	1,533.60	1/2	1,177.12	1/2	833.00	1/2	476.54	1/2	119.35	1/2			
3/4	2,595.20	3/4	2,238.64	3/4	1,882.55	3/4	1,526.17	3/4	1,169.79	3/4	825.74	3/4	469.10	3/4	111.90	3/4			
2	2,587.77	2	2,231.21	2	1,875.13	2	1,518.74	2	1,162.46	2	818.47	2	461.67	2	104.46	2			
1/4	2,580.35	1/4	2,223.79	1/4	1,867.72	1/4	1,511.31	1/4	1,155.25	1/4	811.06	1/4	454.23	1/4	97.04	1/4			
1/2	2,572.92	1/2	2,216.36	1/2	1,860.31	1/2	1,503.88	1/2	1,148.03	1/2	803.66	1/2	446.79	1/2	89.61	1/2			
3/4	2,565.50	3/4	2,208.93	3/4	1,852.89	3/4	1,496.44	3/4	1,140.81	3/4	796.26	3/4	439.36	3/4	82.19	3/4			
3	2,558.08	3	2,201.50	3	1,845.48	3	1,489.01	3	1,133.59	3	788.85	3	431.92	3	74.77	3			
1/4	2,550.65	1/4	2,194.07	1/4	1,838.06	1/4	1,481.58	1/4	1,126.38	1/4	781.41	1/4	424.49	1/4	67.80	1/4			
1/2	2,543.23	1/2	2,186.65	1/2	1,830.65	1/2	1,474.15	1/2	1,119.17	1/2	773.98	1/2	417.05	1/2	60.84	1/2			
3/4	2,535.80	3/4	2,179.22	3/4	1,823.23	3/4	1,466.72	3/4	1,111.96	3/4	766.54	3/4	409.61	3/4	53.88	3/4			
4	2,528.38	4	2,171.79	4	1,815.82	4	1,459.29	4	1,104.75	4	759.11	4	402.18	4	46.91	4			
1/4	2,520.96	1/4	2,164.36	1/4	1,808.40	1/4	1,451.86	1/4	1,097.58	1/4	751.67	1/4	394.74	1/4	41.33	1/4			
1/2	2,513.53	1/2	2,156.94	1/2	1,800.99	1/2	1,444.43	1/2	1,090.40	1/2	744.23	1/2	387.31	1/2	35.74	1/2			
3/4	2,506.11	3/4	2,149.51	3/4	1,793.57	3/4	1,437.00	3/4	1,083.23	3/4	736.80	3/4	379.87	3/4	30.16	3/4			
5	2,498.68	5	2,142.08	5	1,786.16	5	1,429.57	5	1,076.05	5	729.36	5	372.43	5	24.57	5			
1/4	2,491.26	1/4	2,134.65	1/4	1,778.74	1/4	1,422.13	1/4	1,068.91	1/4	721.93	1/4	365.00	1/4	20.85	1/4			
1/2	2,483.84	1/2	2,127.23	1/2	1,771.33	1/2	1,414.70	1/2	1,061.77	1/2	714.49	1/2	357.56	1/2	17.12	1/2			
3/4	2,476.41	3/4	2,119.80	3/4	1,763.92	3/4	1,407.27	3/4	1,054.63	3/4	707.05	3/4	350.13	3/4	13.40	3/4			
6	2,468.99	6	2,112.37	6	1,756.50	6	1,399.84	6	1,047.50	6	699.62	6	342.69	6	9.68	6			
1/4	2,461.56	1/4	2,104.95	1/4	1,749.08	1/4	1,392.41	1/4	1,040.36	1/4	692.18	1/4	335.25	1/4	7.82	1/4			
1/2	2,454.14	1/2	2,097.54	1/2	1,741.65	1/2	1,384.98	1/2	1,033.22	1/2	684.75	1/2	327.82	1/2	5.95	1/2			
3/4	2,446.71	3/4	2,090.12	3/4	1,734.23	3/4	1,377.55	3/4	1,026.08	3/4	677.31	3/4	320.38	3/4	4.09	3/4			
7	2,439.29	7	2,082.70	7	1,726.81	7	1,370.12	7	1,018.94	7	669.87	7	312.95	7	2.23	7			
1/4	2,431.86	1/4	2,075.29	1/4	1,719.37	1/4	1,362.69	1/4	1,011.80	1/4	662.44	1/4	305.50	1/4		1/4			
1/2	2,424.43	1/2	2,067.89	1/2	1,711.94	1/2	1,355.26	1/2	1,004.66	1/2	655.00	1/2	298.06	1/2		1/2			
3/4	2,417.00	3/4	2,060.48	3/4	1,704.51	3/4	1,347.82	3/4	997.52	3/4	647.57	3/4	290.62	3/4		3/4			
8	2,409.58	8	2,053.07	8	1,697.08	8	1,340.39	8	990.38	8	640.13	8	283.18	8		8			
1/4	2,402.14	1/4	2,045.66	1/4	1,689.65	1/4	1,332.96	1/4	983.24	1/4	632.69	1/4	275.73	1/4		1/4			
1/2	2,394.71	1/2	2,038.25	1/2	1,682.22	1/2	1,325.53	1/2	976.10	1/2	625.26	1/2	268.28	1/2		1/2			
3/4	2,387.28	3/4	2,030.84	3/4	1,674.79	3/4	1,318.10	3/4	968.96	3/4	617.82	3/4	260.84	3/4		3/4			
9	2,379.84	9	2,023.43	9	1,667.36	9	1,310.67	9	961.82	9	610.39	9	253.39	9		9			
1/4	2,372.41	1/4	2,016.01	1/4	1,659.93	1/4	1,303.24	1/4	954.68	1/4	602.95	1/4	245.94	1/4		1/4			
1/2	2,364.98	1/2	2,008.60	1/2	1,652.50	1/2	1,295.81	1/2	947.54	1/2	595.51	1/2	238.49	1/2		1/2			
3/4	2,357.54	3/4	2,001.18	3/4	1,645.06	3/4	1,288.38	3/4	940.40	3/4	588.08	3/4	231.05	3/4		3/4			
10	2,350.11	10	1,993.77	10	1,637.63	10	1,280.95	10	933.26	10	580.64	10	223.60	10		10			
1/4	2,342.68	1/4	1,986.35	1/4	1,630.20	1/4	1,273.51	1/4	926.12	1/4	573.21	1/4	216.15	1/4		1/4			
1/2	2,335.24	1/2	1,978.94	1/2	1,622.77	1/2	1,266.08	1/2	918.98	1/2	565.77	1/2	208.70	1/2		1/2			
3/4	2,327.81	3/4	1,971.52	3/4	1,615.34	3/4	1,258.65	3/4	911.84	3/4	558.33	3/4	201.26	3/4		3/4			
11	2,320.38	11	1,964.11	11	1,607.91	11	1,251.22	11	904.70	11	550.90	11	193.81	11		11			
1/4	2,312.94	1/4	1,956.69	1/4	1,600.48	1/4	1,243.79	1/4	897.56	1/4	543.46	1/4	186.36	1/4		1/4			
1/2	2,305.51	1/2	1,949.28	1/2	1,593.05	1/2	1,236.36	1/2	890.42	1/2	536.03	1/2	178.91	1/2		1/2			
3/4	2,298.08	3/4	1,941.87	3/4	1,585.62	3/4	1,228.93	3/4	883.28	3/4	528.59	3/4	171.47	3/4		3/4			

STRAPPED: 07/18/2018 CL
CALCULATED: 07/19/2018 CL
PRINTED: 07/20/2018 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2018

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "E2MS 311"

3 STBD ULLAGE TABLE

10" HATCH GAUGE HEIGHT 17'-07 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0		0	4,315.37	0	4,096.30	0	3,877.20	0	3,657.58	0	3,389.96	0	3,033.26
1/4		1/4		1/4		1/4		1/4	4,492.95	1/4	4,310.83	1/4	4,091.73	1/4	3,872.64	1/4	3,653.01	1/4	3,382.55
1/2		1/2		1/2		1/2		1/2	4,491.67	1/2	4,306.26	1/2	4,087.17	1/2	3,868.07	1/2	3,648.43	1/2	3,375.14
3/4		3/4		3/4		3/4		3/4	4,490.39	3/4	4,301.70	3/4	4,082.60	3/4	3,863.51	3/4	3,643.85	3/4	3,371.72
1		1		1		1		1	4,489.12	1	4,297.13	1	4,078.04	1	3,858.94	1	3,639.28	1	3,360.31
1/4		1/4		1/4		1/4		1/4	4,487.84	1/4	4,292.57	1/4	4,073.47	1/4	3,854.38	1/4	3,634.70	1/4	3,352.89
1/2		1/2		1/2		1/2		1/2	4,485.80	1/2	4,288.01	1/2	4,068.91	1/2	3,849.81	1/2	3,630.12	1/2	3,345.48
3/4		3/4		3/4		3/4		3/4	4,483.76	3/4	4,283.44	3/4	4,064.34	3/4	3,845.24	3/4	3,625.54	3/4	3,338.06
2		2		2		2		2	4,481.72	2	4,278.88	2	4,059.78	2	3,840.67	2	3,620.97	2	3,330.64
1/4		1/4		1/4		1/4		1/4	4,479.68	1/4	4,274.31	1/4	4,055.22	1/4	3,836.10	1/4	3,616.39	1/4	3,323.23
1/2		1/2		1/2		1/2		1/2	4,476.87	1/2	4,269.75	1/2	4,050.65	1/2	3,831.52	1/2	3,611.81	1/2	3,315.81
3/4		3/4		3/4		3/4		3/4	4,474.07	3/4	4,265.18	3/4	4,046.09	3/4	3,826.94	3/4	3,607.24	3/4	3,308.39
3		3		3		3		3	4,471.27	3	4,260.62	3	4,041.52	3	3,822.36	3	3,602.66	3	3,300.98
1/4		1/4		1/4		1/4		1/4	4,468.46	1/4	4,256.05	1/4	4,036.96	1/4	3,817.79	1/4	3,598.08	1/4	3,293.56
1/2		1/2		1/2		1/2		1/2	4,464.90	1/2	4,251.49	1/2	4,032.39	1/2	3,813.21	1/2	3,593.50	1/2	3,286.14
3/4		3/4		3/4		3/4		3/4	4,461.33	3/4	4,246.92	3/4	4,027.83	3/4	3,808.63	3/4	3,588.93	3/4	3,278.73
4		4		4		4		4	4,457.76	4	4,242.36	4	4,023.26	4	3,804.06	4	3,584.35	4	3,271.31
1/4		1/4		1/4		1/4		1/4	4,454.20	1/4	4,237.80	1/4	4,018.70	1/4	3,799.48	1/4	3,579.77	1/4	3,263.89
1/2		1/2		1/2		1/2		1/2	4,449.98	1/2	4,233.23	1/2	4,014.14	1/2	3,794.90	1/2	3,575.08	1/2	3,256.48
3/4		3/4		3/4		3/4		3/4	4,445.77	3/4	4,228.67	3/4	4,009.57	3/4	3,790.32	3/4	3,570.38	3/4	3,249.06
5		5		5		5		5	4,441.56	5	4,224.10	5	4,005.01	5	3,785.75	5	3,565.68	5	3,241.64
1/4		1/4		1/4		1/4		1/4	4,437.35	1/4	4,219.54	1/4	4,000.44	1/4	3,781.17	1/4	3,560.98	1/4	3,234.23
1/2		1/2		1/2		1/2		1/2	4,432.85	1/2	4,214.97	1/2	3,995.88	1/2	3,776.59	1/2	3,555.95	1/2	3,226.80
3/4		3/4		3/4		3/4		3/4	4,428.36	3/4	4,210.41	3/4	3,991.31	3/4	3,772.01	3/4	3,550.91	3/4	3,219.36
6		6		6		6		6	4,423.86	6	4,205.84	6	3,986.75	6	3,767.44	6	3,545.87	6	3,211.93
1/4		1/4		1/4		1/4		1/4	4,419.37	1/4	4,201.28	1/4	3,982.18	1/4	3,762.86	1/4	3,540.83	1/4	3,204.50
1/2		1/2		1/2		1/2		1/2	4,414.85	1/2	4,196.72	1/2	3,977.62	1/2	3,758.28	1/2	3,535.33	1/2	3,197.06
3/4		3/4		3/4		3/4		3/4	4,410.34	3/4	4,192.15	3/4	3,973.05	3/4	3,753.71	3/4	3,529.83	3/4	3,189.61
7		7		7		7		7	4,405.82	7	4,187.59	7	3,968.49	7	3,749.13	7	3,524.34	7	3,182.17
1/4		1/4		1/4		1/4		1/4	4,401.31	1/4	4,183.02	1/4	3,963.93	1/4	3,744.55	1/4	3,518.84	1/4	3,174.72
1/2		1/2		1/2		1/2		1/2	4,396.79	1/2	4,178.46	1/2	3,959.36	1/2	3,739.97	1/2	3,512.86	1/2	3,167.28
3/4		3/4		3/4		3/4		3/4	4,392.27	3/4	4,173.89	3/4	3,954.80	3/4	3,735.40	3/4	3,506.88	3/4	3,159.83
8		8		8		8		8	4,387.75	8	4,169.33	8	3,950.23	8	3,730.82	8	3,500.90	8	3,152.39
1/4		1/4		1/4		1/4		1/4	4,383.23	1/4	4,164.76	1/4	3,945.67	1/4	3,726.24	1/4	3,494.92	1/4	3,144.94
1/2		1/2		1/2		1/2		1/2	4,378.71	1/2	4,160.20	1/2	3,941.10	1/2	3,721.67	1/2	3,488.47	1/2	3,137.50
3/4		3/4		3/4		3/4		3/4	4,374.19	3/4	4,155.63	3/4	3,936.54	3/4	3,717.09	3/4	3,482.01	3/4	3,130.05
9		9		9		9		9	4,369.67	9	4,151.07	9	3,931.97	9	3,712.51	9	3,475.55	9	3,122.61
1/4		1/4		1/4		1/4		1/4	4,365.15	1/4	4,146.51	1/4	3,927.41	1/4	3,707.93	1/4	3,469.09	1/4	3,115.16
1/2		1/2		1/2		1/2		1/2	4,360.63	1/2	4,141.94	1/2	3,922.85	1/2	3,703.36	1/2	3,462.16	1/2	3,107.72
3/4		3/4		3/4		3/4		3/4	4,356.11	3/4	4,137.38	3/4	3,918.28	3/4	3,698.78	3/4	3,455.22	3/4	3,100.27
10		10		10		10		10	4,351.59	10	4,132.81	10	3,913.72	10	3,694.20	10	3,448.28	10	3,092.83
1/4		1/4		1/4		1/4		1/4	4,347.07	1/4	4,128.25	1/4	3,909.15	1/4	3,689.63	1/4	3,441.35	1/4	3,085.38
1/2		1/2		1/2		1/2		1/2	4,342.55	1/2	4,123.68	1/2	3,904.59	1/2	3,685.05	1/2	3,434.06	1/2	3,077.93
3/4		3/4		3/4		3/4		3/4	4,338.03	3/4	4,119.12	3/4	3,900.02	3/4	3,680.47	3/4	3,426.77	3/4	3,070.49
11		11		11		11		11	4,333.51	11	4,114.55	11	3,895.46	11	3,675.89	11	3,419.48	11	3,063.04
1/4		1/4		1/4		1/4		1/4	4,328.99	1/4	4,109.99	1/4	3,890.89	1/4	3,671.32	1/4	3,412.19	1/4	3,055.60
1/2		1/2		1/2		1/2		1/2	4,324.45	1/2	4,105.43	1/2	3,886.33	1/2	3,666.74	1/2	3,404.78	1/2	3,048.15
3/4		3/4		3/4		3/4		3/4	4,319.91	3/4	4,100.86	3/4	3,881.76	3/4	3,662.16	3/4	3,397.37	3/4	3,040.71

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME.
GAUGE POINT: (10" HATCH) LOCATED 3'-00" OFF CENTERLINE AND 3'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "E2MS 311"

3 STBD

ULLAGE TABLE

10" HATCH

GAUGE HEIGHT 17'-07 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	2,675.89	0	2,318.32	0	1,960.45	0	1,602.58	0	1,244.71	0	887.31	0	529.49	0	171.64	0		0	
1/4	2,668.44	1/4	2,310.86	1/4	1,952.99	1/4	1,595.12	1/4	1,237.25	1/4	879.86	1/4	522.04	1/4	164.18	1/4		1/4	
1/2	2,661.00	1/2	2,303.41	1/2	1,945.54	1/2	1,587.67	1/2	1,229.80	1/2	872.42	1/2	514.58	1/2	156.73	1/2		1/2	
3/4	2,653.55	3/4	2,295.95	3/4	1,938.08	3/4	1,580.21	3/4	1,222.34	3/4	864.97	3/4	507.13	3/4	149.27	3/4		3/4	
1	2,646.11	1	2,288.49	1	1,930.63	1	1,572.76	1	1,214.89	1	857.52	1	499.67	1	141.82	1		1	
1/4	2,638.66	1/4	2,281.04	1/4	1,923.17	1/4	1,565.30	1/4	1,207.43	1/4	850.07	1/4	492.22	1/4	134.36	1/4		1/4	
1/2	2,631.21	1/2	2,273.58	1/2	1,915.71	1/2	1,557.85	1/2	1,199.98	1/2	842.62	1/2	484.76	1/2	126.91	1/2		1/2	
3/4	2,623.77	3/4	2,266.13	3/4	1,908.26	3/4	1,550.39	3/4	1,192.52	3/4	835.16	3/4	477.31	3/4	119.47	3/4		3/4	
2	2,616.32	2	2,258.67	2	1,900.80	2	1,542.93	2	1,185.07	2	827.70	2	469.85	2	112.02	2		2	
1/4	2,608.87	1/4	2,251.22	1/4	1,893.35	1/4	1,535.48	1/4	1,177.61	1/4	820.25	1/4	462.40	1/4	104.57	1/4		1/4	
1/2	2,601.43	1/2	2,243.76	1/2	1,885.89	1/2	1,528.02	1/2	1,170.16	1/2	812.79	1/2	454.94	1/2	97.13	1/2		1/2	
3/4	2,593.98	3/4	2,236.31	3/4	1,878.44	3/4	1,520.57	3/4	1,162.70	3/4	805.34	3/4	447.48	3/4	89.70	3/4		3/4	
3	2,586.53	3	2,228.85	3	1,870.98	3	1,513.11	3	1,155.25	3	797.88	3	440.03	3	82.27	3		3	
1/4	2,579.09	1/4	2,221.39	1/4	1,863.53	1/4	1,505.66	1/4	1,147.80	1/4	790.43	1/4	432.57	1/4	74.84	1/4		1/4	
1/2	2,571.64	1/2	2,213.94	1/2	1,856.07	1/2	1,498.20	1/2	1,140.35	1/2	782.97	1/2	425.12	1/2	67.87	1/2		1/2	
3/4	2,564.20	3/4	2,206.48	3/4	1,848.61	3/4	1,490.75	3/4	1,132.90	3/4	775.52	3/4	417.66	3/4	60.90	3/4		3/4	
4	2,556.75	4	2,199.03	4	1,841.16	4	1,483.29	4	1,125.45	4	768.06	4	410.21	4	53.93	4		4	
1/4	2,549.30	1/4	2,191.57	1/4	1,833.70	1/4	1,475.83	1/4	1,118.00	1/4	760.61	1/4	402.75	1/4	46.96	1/4		1/4	
1/2	2,541.86	1/2	2,184.12	1/2	1,826.25	1/2	1,468.38	1/2	1,110.55	1/2	753.15	1/2	395.30	1/2	41.37	1/2		1/2	
3/4	2,534.41	3/4	2,176.66	3/4	1,818.79	3/4	1,460.92	3/4	1,103.11	3/4	745.70	3/4	387.84	3/4	35.78	3/4		3/4	
5	2,526.96	5	2,169.20	5	1,811.34	5	1,453.47	5	1,095.66	5	738.24	5	380.39	5	30.18	5		5	
1/4	2,519.52	1/4	2,161.75	1/4	1,803.88	1/4	1,446.01	1/4	1,088.22	1/4	730.79	1/4	372.93	1/4	24.59	1/4		1/4	
1/2	2,512.07	1/2	2,154.29	1/2	1,796.42	1/2	1,438.56	1/2	1,080.78	1/2	723.33	1/2	365.48	1/2	20.87	1/2		1/2	
3/4	2,504.62	3/4	2,146.84	3/4	1,788.97	3/4	1,431.10	3/4	1,073.34	3/4	715.88	3/4	358.02	3/4	17.14	3/4		3/4	
6	2,497.18	6	2,139.38	6	1,781.51	6	1,423.64	6	1,065.89	6	708.42	6	350.57	6	13.41	6		6	
1/4	2,489.73	1/4	2,131.93	1/4	1,774.06	1/4	1,416.19	1/4	1,058.45	1/4	700.96	1/4	343.11	1/4	9.68	1/4		1/4	
1/2	2,482.28	1/2	2,124.47	1/2	1,766.60	1/2	1,408.73	1/2	1,051.01	1/2	693.51	1/2	335.66	1/2	7.82	1/2		1/2	
3/4	2,474.84	3/4	2,117.02	3/4	1,759.15	3/4	1,401.28	3/4	1,043.57	3/4	686.05	3/4	328.20	3/4	5.96	3/4		3/4	
7	2,467.39	7	2,109.56	7	1,751.69	7	1,393.82	7	1,036.13	7	678.60	7	320.74	7	4.09	7		7	
1/4	2,459.94	1/4	2,102.10	1/4	1,744.24	1/4	1,386.37	1/4	1,028.69	1/4	671.14	1/4	313.29	1/4	2.23	1/4		1/4	
1/2	2,452.50	1/2	2,094.65	1/2	1,736.78	1/2	1,378.91	1/2	1,021.25	1/2	663.69	1/2	305.83	1/2		1/2		1/2	
3/4	2,445.05	3/4	2,087.19	3/4	1,729.32	3/4	1,371.46	3/4	1,013.81	3/4	656.23	3/4	298.38	3/4		3/4		3/4	
8	2,437.60	8	2,079.74	8	1,721.87	8	1,364.00	8	1,006.37	8	648.78	8	290.92	8		8		8	
1/4	2,430.15	1/4	2,072.28	1/4	1,714.41	1/4	1,356.54	1/4	998.92	1/4	641.32	1/4	283.47	1/4		1/4		1/4	
1/2	2,422.70	1/2	2,064.83	1/2	1,706.96	1/2	1,349.09	1/2	991.48	1/2	633.87	1/2	276.01	1/2		1/2		1/2	
3/4	2,415.24	3/4	2,057.37	3/4	1,699.50	3/4	1,341.63	3/4	984.04	3/4	626.41	3/4	268.56	3/4		3/4		3/4	
9	2,407.78	9	2,049.92	9	1,692.05	9	1,334.18	9	976.60	9	618.96	9	261.10	9		9		9	
1/4	2,400.33	1/4	2,042.46	1/4	1,684.59	1/4	1,326.72	1/4	969.16	1/4	611.50	1/4	253.65	1/4		1/4		1/4	
1/2	2,392.87	1/2	2,035.00	1/2	1,677.14	1/2	1,319.27	1/2	961.72	1/2	604.05	1/2	246.19	1/2		1/2		1/2	
3/4	2,385.42	3/4	2,027.55	3/4	1,669.68	3/4	1,311.81	3/4	954.28	3/4	596.59	3/4	238.74	3/4		3/4		3/4	
10	2,377.96	10	2,020.09	10	1,662.22	10	1,304.36	10	946.84	10	589.14	10	231.28	10		10		10	
1/4	2,370.51	1/4	2,012.64	1/4	1,654.77	1/4	1,296.90	1/4	939.39	1/4	581.68	1/4	223.83	1/4		1/4		1/4	
1/2	2,363.05	1/2	2,005.18	1/2	1,647.31	1/2	1,289.44	1/2	931.95	1/2	574.22	1/2	216.37	1/2		1/2		1/2	
3/4	2,355.59	3/4	1,997.73	3/4	1,639.86	3/4	1,281.99	3/4	924.51	3/4	566.77	3/4	208.91	3/4		3/4		3/4	
11	2,348.14	11	1,990.27	11	1,632.40	11	1,274.53	11	917.07	11	559.31	11	201.46	11		11		11	
1/4	2,340.68	1/4	1,982.81	1/4	1,624.95	1/4	1,267.08	1/4	909.63	1/4	551.86	1/4	194.00	1/4		1/4		1/4	
1/2	2,333.23	1/2	1,975.36	1/2	1,617.49	1/2	1,259.62	1/2	902.19	1/2	544.40	1/2	186.55	1/2		1/2		1/2	
3/4	2,325.77	3/4	1,967.90	3/4	1,610.03	3/4	1,252.17	3/4	894.75	3/4	536.95	3/4	179.09	3/4		3/4		3/4	

STRAPPED: 07/18/2018 CL
 CALCULATED: 07/19/2018 CL
 PRINTED: 07/20/2018 SW

CANCELS AND SUPERCEDES
 ALL PRIOR TO 07/2018

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "E2MS 311"

FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 4'-06 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	100	0	257	0	412	0		0		0		0		0		0	
1/4	1	1/4	103	1/4	260	1/4	415	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1	1/2	106	1/2	263	1/2	417	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2	3/4	109	3/4	267	3/4	420	3/4		3/4		3/4		3/4		3/4		3/4	
1	3	1	112	1	270	1	423	1		1		1		1		1		1	
1/4	4	1/4	115	1/4	273	1/4	426	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	5	1/2	119	1/2	277	1/2	429	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	6	3/4	122	3/4	280	3/4	431	3/4		3/4		3/4		3/4		3/4		3/4	
2	7	2	125	2	284	2	434	2		2		2		2		2		2	
1/4	9	1/4	128	1/4	287	1/4	437	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	10	1/2	131	1/2	290	1/2	440	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	12	3/4	134	3/4	294	3/4	442	3/4		3/4		3/4		3/4		3/4		3/4	
3	13	3	137	3	297	3	445	3		3		3		3		3		3	
1/4	15	1/4	140	1/4	300	1/4	447	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	17	1/2	144	1/2	304	1/2	450	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	19	3/4	147	3/4	307	3/4	452	3/4		3/4		3/4		3/4		3/4		3/4	
4	20	4	150	4	311	4	455	4		4		4		4		4		4	
1/4	22	1/4	153	1/4	314	1/4	457	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	24	1/2	156	1/2	317	1/2	460	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	26	3/4	160	3/4	320	3/4	462	3/4		3/4		3/4		3/4		3/4		3/4	
5	28	5	163	5	324	5	465	5		5		5		5		5		5	
1/4	31	1/4	166	1/4	327	1/4	467	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	33	1/2	169	1/2	330	1/2	469	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	35	3/4	173	3/4	334	3/4	471	3/4		3/4		3/4		3/4		3/4		3/4	
6	37	6	176	6	337	6	474	6		6		6		6		6		6	
1/4	39	1/4	179	1/4	340	1/4	476	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	42	1/2	183	1/2	343	1/2	478	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	44	3/4	186	3/4	347	3/4	480	3/4		3/4		3/4		3/4		3/4		3/4	
7	46	7	189	7	350	7	482	7		7		7		7		7		7	
1/4	49	1/4	192	1/4	353	1/4	484	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	51	1/2	196	1/2	356	1/2	486	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	54	3/4	199	3/4	360	3/4	488	3/4		3/4		3/4		3/4		3/4		3/4	
8	56	8	202	8	363	8	489	8		8		8		8		8		8	
1/4	59	1/4	206	1/4	366	1/4	491	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	62	1/2	209	1/2	369	1/2	493	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	64	3/4	213	3/4	372	3/4	494	3/4		3/4		3/4		3/4		3/4		3/4	
9	67	9	216	9	375	9	496	9		9		9		9		9		9	
1/4	69	1/4	219	1/4	379	1/4	497	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	72	1/2	223	1/2	382	1/2	499	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	75	3/4	226	3/4	385	3/4	500	3/4		3/4		3/4		3/4		3/4		3/4	
10	78	10	229	10	388	10	502	10		10		10		10		10		10	
1/4	80	1/4	233	1/4	391	1/4	502	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	83	1/2	236	1/2	394	1/2	502	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	86	3/4	240	3/4	397	3/4	502	3/4		3/4		3/4		3/4		3/4		3/4	
11	89	11	243	11	400	11	502	11		11		11		11		11		11	
1/4	92	1/4	246	1/4	403	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	95	1/2	250	1/2	406	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	98	3/4	253	3/4	409	3/4		3/4		3/4		3/4		3/4		3/4		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 EXTENDS TO EXTREME HEIGHT OF TANK AT GAUGE POINT.
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN AT 2" DIAMETER STANDPIPE.

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CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2018

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "E2MS 311"

SLOP TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 5'-08 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	433	0	1,021	0	1,641	0	2,206	0		0		0		0		0	
1/4	5	1/4	444	1/4	1,034	1/4	1,653	1/4	2,216	1/4		1/4		1/4		1/4		1/4	
1/2	11	1/2	456	1/2	1,047	1/2	1,666	1/2	2,227	1/2		1/2		1/2		1/2		1/2	
3/4	16	3/4	467	3/4	1,060	3/4	1,678	3/4	2,237	3/4		3/4		3/4		3/4		3/4	
1	21	1	479	1	1,073	1	1,691	1	2,247	1		1		1		1		1	
1/4	28	1/4	490	1/4	1,086	1/4	1,703	1/4	2,257	1/4		1/4		1/4		1/4		1/4	
1/2	35	1/2	502	1/2	1,099	1/2	1,716	1/2	2,267	1/2		1/2		1/2		1/2		1/2	
3/4	41	3/4	513	3/4	1,111	3/4	1,729	3/4	2,277	3/4		3/4		3/4		3/4		3/4	
2	48	2	525	2	1,124	2	1,741	2	2,287	2		2		2		2		2	
1/4	56	1/4	537	1/4	1,137	1/4	1,753	1/4	2,297	1/4		1/4		1/4		1/4		1/4	
1/2	63	1/2	549	1/2	1,150	1/2	1,766	1/2	2,306	1/2		1/2		1/2		1/2		1/2	
3/4	71	3/4	560	3/4	1,163	3/4	1,778	3/4	2,316	3/4		3/4		3/4		3/4		3/4	
3	78	3	572	3	1,176	3	1,791	3	2,326	3		3		3		3		3	
1/4	86	1/4	584	1/4	1,189	1/4	1,803	1/4	2,335	1/4		1/4		1/4		1/4		1/4	
1/2	95	1/2	596	1/2	1,202	1/2	1,815	1/2	2,344	1/2		1/2		1/2		1/2		1/2	
3/4	103	3/4	608	3/4	1,215	3/4	1,827	3/4	2,353	3/4		3/4		3/4		3/4		3/4	
4	111	4	620	4	1,228	4	1,840	4	2,362	4		4		4		4		4	
1/4	120	1/4	632	1/4	1,241	1/4	1,852	1/4	2,371	1/4		1/4		1/4		1/4		1/4	
1/2	128	1/2	644	1/2	1,254	1/2	1,864	1/2	2,380	1/2		1/2		1/2		1/2		1/2	
3/4	137	3/4	656	3/4	1,267	3/4	1,876	3/4	2,389	3/4		3/4		3/4		3/4		3/4	
5	146	5	669	5	1,280	5	1,888	5	2,397	5		5		5		5		5	
1/4	155	1/4	681	1/4	1,293	1/4	1,900	1/4	2,406	1/4		1/4		1/4		1/4		1/4	
1/2	164	1/2	693	1/2	1,306	1/2	1,912	1/2	2,414	1/2		1/2		1/2		1/2		1/2	
3/4	173	3/4	705	3/4	1,319	3/4	1,924	3/4	2,422	3/4		3/4		3/4		3/4		3/4	
6	183	6	718	6	1,332	6	1,936	6	2,430	6		6		6		6		6	
1/4	192	1/4	730	1/4	1,345	1/4	1,948	1/4	2,438	1/4		1/4		1/4		1/4		1/4	
1/2	202	1/2	742	1/2	1,358	1/2	1,960	1/2	2,445	1/2		1/2		1/2		1/2		1/2	
3/4	211	3/4	755	3/4	1,371	3/4	1,971	3/4	2,453	3/4		3/4		3/4		3/4		3/4	
7	221	7	767	7	1,384	7	1,983	7	2,460	7		7		7		7		7	
1/4	231	1/4	780	1/4	1,397	1/4	1,995	1/4	2,467	1/4		1/4		1/4		1/4		1/4	
1/2	241	1/2	792	1/2	1,410	1/2	2,006	1/2	2,473	1/2		1/2		1/2		1/2		1/2	
3/4	251	3/4	805	3/4	1,423	3/4	2,018	3/4	2,480	3/4		3/4		3/4		3/4		3/4	
8	261	8	817	8	1,436	8	2,030	8	2,487	8		8		8		8		8	
1/4	271	1/4	830	1/4	1,449	1/4	2,041	1/4	2,492	1/4		1/4		1/4		1/4		1/4	
1/2	282	1/2	843	1/2	1,461	1/2	2,052	1/2	2,498	1/2		1/2		1/2		1/2		1/2	
3/4	292	3/4	855	3/4	1,474	3/4	2,064	3/4	2,503	3/4		3/4		3/4		3/4		3/4	
9	302	9	868	9	1,487	9	2,075	9	2,508	9		9		9		9		9	
1/4	313	1/4	880	1/4	1,500	1/4	2,086	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	324	1/2	893	1/2	1,513	1/2	2,098	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	334	3/4	906	3/4	1,526	3/4	2,109	3/4		3/4		3/4		3/4		3/4		3/4	
10	345	10	919	10	1,539	10	2,120	10		10		10		10		10		10	
1/4	356	1/4	931	1/4	1,551	1/4	2,131	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	367	1/2	944	1/2	1,564	1/2	2,142	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	378	3/4	957	3/4	1,577	3/4	2,153	3/4		3/4		3/4		3/4		3/4		3/4	
11	388	11	970	11	1,590	11	2,163	11		11		11		11		11		11	
1/4	400	1/4	983	1/4	1,602	1/4	2,174	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	411	1/2	995	1/2	1,615	1/2	2,185	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	422	3/4	1,008	3/4	1,628	3/4	2,195	3/4		3/4		3/4		3/4		3/4		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 EXTENDS TO EXTREME HEIGHT OF TANK AT GAUGE POINT.
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN AT 2 1/2" DIAMETER STANDPIPE.

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BARGE "E2MS 311"

INNAGE (HERMETIC)

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 2'-00"
 AFT DRAFT = 6'-00"
 DIFF. = 4'-00" (DOWN BY STERN)

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

LENGTH BETWEEN DRAFT MARKS: 235'-09"

July 18, 2018

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

<http://www.pmacorp.net>



BARGE "E2MS 311"

1 PORT INNAGE TABLE

HERMETIC GAUGE HEIGHT 15'-09"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	15.27	0	303.39	0	652.57	0	1,008.52	0	1,365.63	0	1,723.44	0	2,081.24	0	2,439.04	0	2,796.78	0	3,154.49
1/4	18.31	1/4	310.27	1/4	660.03	1/4	1,015.91	1/4	1,373.09	1/4	1,730.89	1/4	2,088.69	1/4	2,446.49	1/4	2,804.24	1/4	3,161.94
1/2	21.35	1/2	317.16	1/2	667.48	1/2	1,023.31	1/2	1,380.54	1/2	1,738.34	1/2	2,096.15	1/2	2,453.95	1/2	2,811.69	1/2	3,169.39
3/4	24.40	3/4	324.05	3/4	674.93	3/4	1,030.70	3/4	1,388.00	3/4	1,745.80	3/4	2,103.60	3/4	2,461.40	3/4	2,819.14	3/4	3,176.85
1	27.44	1	330.93	1	682.39	1	1,038.10	1	1,395.45	1	1,753.25	1	2,111.05	1	2,468.86	1	2,826.59	1	3,184.30
1/4	32.43	1/4	337.90	1/4	689.84	1/4	1,045.50	1/4	1,402.90	1/4	1,760.71	1/4	2,118.51	1/4	2,476.31	1/4	2,834.05	1/4	3,191.75
1/2	37.42	1/2	344.88	1/2	697.30	1/2	1,052.91	1/2	1,410.36	1/2	1,768.16	1/2	2,125.96	1/2	2,483.76	1/2	2,841.50	1/2	3,199.20
3/4	42.41	3/4	351.85	3/4	704.75	3/4	1,060.31	3/4	1,417.81	3/4	1,775.61	3/4	2,133.42	3/4	2,491.22	3/4	2,848.95	3/4	3,206.66
2	47.40	2	358.82	2	712.20	2	1,067.72	2	1,425.27	2	1,783.07	2	2,140.87	2	2,498.67	2	2,856.40	2	3,214.11
1/4	53.37	1/4	365.88	1/4	719.66	1/4	1,075.14	1/4	1,432.72	1/4	1,790.52	1/4	2,148.32	1/4	2,506.13	1/4	2,863.85	1/4	3,221.56
1/2	59.35	1/2	372.94	1/2	727.11	1/2	1,082.56	1/2	1,440.18	1/2	1,797.98	1/2	2,155.78	1/2	2,513.58	1/2	2,871.31	1/2	3,229.01
3/4	65.32	3/4	380.01	3/4	734.57	3/4	1,089.99	3/4	1,447.63	3/4	1,805.43	3/4	2,163.23	3/4	2,521.03	3/4	2,878.76	3/4	3,236.46
3	71.30	3	387.07	3	742.02	3	1,097.41	3	1,455.08	3	1,812.89	3	2,170.69	3	2,528.49	3	2,886.21	3	3,243.92
1/4	77.38	1/4	394.21	1/4	749.47	1/4	1,104.83	1/4	1,462.54	1/4	1,820.34	1/4	2,178.14	1/4	2,535.94	1/4	2,893.66	1/4	3,251.37
1/2	83.47	1/2	401.36	1/2	756.93	1/2	1,112.25	1/2	1,469.99	1/2	1,827.79	1/2	2,185.60	1/2	2,543.40	1/2	2,901.12	1/2	3,258.82
3/4	89.56	3/4	408.51	3/4	764.38	3/4	1,119.68	3/4	1,477.45	3/4	1,835.25	3/4	2,193.05	3/4	2,550.85	3/4	2,908.57	3/4	3,266.27
4	95.65	4	415.66	4	771.84	4	1,127.10	4	1,484.90	4	1,842.70	4	2,200.50	4	2,558.31	4	2,916.02	4	3,273.73
1/4	101.83	1/4	422.89	1/4	779.24	1/4	1,134.55	1/4	1,492.36	1/4	1,850.16	1/4	2,207.96	1/4	2,565.76	1/4	2,923.47	1/4	3,281.18
1/2	108.02	1/2	430.13	1/2	786.64	1/2	1,142.01	1/2	1,499.81	1/2	1,857.61	1/2	2,215.41	1/2	2,573.21	1/2	2,930.92	1/2	3,288.63
3/4	114.20	3/4	437.36	3/4	794.05	3/4	1,149.46	3/4	1,507.26	3/4	1,865.07	3/4	2,222.87	3/4	2,580.67	3/4	2,938.38	3/4	3,296.08
5	120.39	5	444.60	5	801.45	5	1,156.92	5	1,514.72	5	1,872.52	5	2,230.32	5	2,588.12	5	2,945.83	5	3,303.53
1/4	126.66	1/4	451.92	1/4	808.85	1/4	1,164.37	1/4	1,522.17	1/4	1,879.97	1/4	2,237.78	1/4	2,595.57	1/4	2,953.28	1/4	3,310.99
1/2	132.93	1/2	459.25	1/2	816.24	1/2	1,171.82	1/2	1,529.63	1/2	1,887.43	1/2	2,245.23	1/2	2,603.03	1/2	2,960.73	1/2	3,318.44
3/4	139.21	3/4	466.57	3/4	823.64	3/4	1,179.28	3/4	1,537.08	3/4	1,894.88	3/4	2,252.68	3/4	2,610.48	3/4	2,968.18	3/4	3,325.89
6	145.48	6	473.89	6	831.03	6	1,186.73	6	1,544.53	6	1,902.34	6	2,260.14	6	2,617.93	6	2,975.64	6	3,333.34
1/4	151.84	1/4	481.30	1/4	838.43	1/4	1,194.19	1/4	1,551.99	1/4	1,909.79	1/4	2,267.59	1/4	2,625.38	1/4	2,983.09	1/4	3,340.79
1/2	158.20	1/2	488.71	1/2	845.82	1/2	1,201.64	1/2	1,559.44	1/2	1,917.24	1/2	2,275.05	1/2	2,632.84	1/2	2,990.54	1/2	3,348.25
3/4	164.56	3/4	496.12	3/4	853.22	3/4	1,209.10	3/4	1,566.90	3/4	1,924.70	3/4	2,282.50	3/4	2,640.29	3/4	2,997.99	3/4	3,355.70
7	170.92	7	503.53	7	860.61	7	1,216.55	7	1,574.35	7	1,932.15	7	2,289.95	7	2,647.74	7	3,005.45	7	3,363.15
1/4	177.37	1/4	510.99	1/4	868.01	1/4	1,224.00	1/4	1,581.81	1/4	1,939.61	1/4	2,297.41	1/4	2,655.19	1/4	3,012.90	1/4	3,370.60
1/2	183.82	1/2	518.44	1/2	875.40	1/2	1,231.46	1/2	1,589.26	1/2	1,947.06	1/2	2,304.86	1/2	2,662.64	1/2	3,020.35	1/2	3,378.06
3/4	190.27	3/4	525.90	3/4	882.80	3/4	1,238.91	3/4	1,596.71	3/4	1,954.52	3/4	2,312.32	3/4	2,670.10	3/4	3,027.80	3/4	3,385.51
8	196.72	8	533.35	8	890.19	8	1,246.37	8	1,604.17	8	1,961.97	8	2,319.77	8	2,677.55	8	3,035.25	8	3,392.96
1/4	203.25	1/4	540.80	1/4	897.59	1/4	1,253.82	1/4	1,611.62	1/4	1,969.42	1/4	2,327.23	1/4	2,685.00	1/4	3,042.71	1/4	3,400.41
1/2	209.79	1/2	548.25	1/2	904.98	1/2	1,261.28	1/2	1,619.08	1/2	1,976.88	1/2	2,334.68	1/2	2,692.45	1/2	3,050.16	1/2	3,407.86
3/4	216.32	3/4	555.70	3/4	912.38	3/4	1,268.73	3/4	1,626.53	3/4	1,984.33	3/4	2,342.13	3/4	2,699.91	3/4	3,057.61	3/4	3,415.32
9	222.86	9	563.14	9	919.78	9	1,276.18	9	1,633.99	9	1,991.79	9	2,349.59	9	2,707.36	9	3,065.06	9	3,422.77
1/4	229.48	1/4	570.59	1/4	927.17	1/4	1,283.64	1/4	1,641.44	1/4	1,999.24	1/4	2,357.04	1/4	2,714.81	1/4	3,072.52	1/4	3,430.22
1/2	236.11	1/2	578.04	1/2	934.57	1/2	1,291.09	1/2	1,648.89	1/2	2,006.70	1/2	2,364.50	1/2	2,722.26	1/2	3,079.97	1/2	3,437.67
3/4	242.73	3/4	585.49	3/4	941.96	3/4	1,298.55	3/4	1,656.35	3/4	2,014.15	3/4	2,371.95	3/4	2,729.71	3/4	3,087.42	3/4	3,445.13
10	249.35	10	592.94	10	949.36	10	1,306.00	10	1,663.80	10	2,021.60	10	2,379.41	10	2,737.17	10	3,094.87	10	3,452.58
1/4	256.06	1/4	600.39	1/4	956.75	1/4	1,313.45	1/4	1,671.26	1/4	2,029.06	1/4	2,386.86	1/4	2,744.62	1/4	3,102.32	1/4	3,460.03
1/2	262.77	1/2	607.85	1/2	964.15	1/2	1,320.91	1/2	1,678.71	1/2	2,036.51	1/2	2,394.31	1/2	2,752.07	1/2	3,109.78	1/2	3,467.48
3/4	269.49	3/4	615.30	3/4	971.54	3/4	1,328.36	3/4	1,686.16	3/4	2,043.97	3/4	2,401.77	3/4	2,759.52	3/4	3,117.23	3/4	3,474.93
11	276.20	11	622.76	11	978.94	11	1,335.82	11	1,693.62	11	2,051.42	11	2,409.22	11	2,766.98	11	3,124.68	11	3,482.39
1/4	282.99	1/4	630.21	1/4	986.33	1/4	1,343.27	1/4	1,701.07	1/4	2,058.87	1/4	2,416.68	1/4	2,774.43	1/4	3,132.13	1/4	3,489.84
1/2	289.79	1/2	637.66	1/2	993.73	1/2	1,350.73	1/2	1,708.53	1/2	2,066.33	1/2	2,424.13	1/2	2,781.88	1/2	3,139.59	1/2	3,497.29
3/4	296.59	3/4	645.12	3/4	1,001.12	3/4	1,358.18	3/4	1,715.98	3/4	2,073.78	3/4	2,431.58	3/4	2,789.33	3/4	3,147.04	3/4	3,504.74

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 LIP OF 2" HERMETIC VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-09" FORWARD OF AFT BULKHEAD.

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



BARGE "E2MS 311"

1 PORT

INNAGE TABLE

HERMETIC

GAUGE HEIGHT 15'-09"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,512.20	0	3,869.90	0	4,226.91	0	4,583.56	0	4,938.40	0		0		0		0		0	
1/4	3,519.65	1/4	3,877.35	1/4	4,234.34	1/4	4,590.99	1/4	4,945.69	1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,527.10	1/2	3,884.81	1/2	4,241.77	1/2	4,598.42	1/2	4,952.98	1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,534.55	3/4	3,892.26	3/4	4,249.20	3/4	4,605.85	3/4	4,960.27	3/4		3/4	3/4	3/4	3/4		3/4	3/4	
1	3,542.00	1	3,899.71	1	4,256.63	1	4,613.28	1	4,967.56	1		1		1		1		1	
1/4	3,549.46	1/4	3,907.16	1/4	4,264.06	1/4	4,620.71	1/4	4,973.98	1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,556.91	1/2	3,914.61	1/2	4,271.49	1/2	4,628.14	1/2	4,980.41	1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,564.36	3/4	3,922.07	3/4	4,278.92	3/4	4,635.57	3/4	4,986.84	3/4		3/4	3/4	3/4	3/4		3/4	3/4	
2	3,571.81	2	3,929.52	2	4,286.35	2	4,643.00	2	4,993.26	2		2		2		2		2	
1/4	3,579.27	1/4	3,936.97	1/4	4,293.78	1/4	4,650.43	1/4	4,998.45	1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,586.72	1/2	3,944.42	1/2	4,301.21	1/2	4,657.86	1/2	5,003.63	1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,594.17	3/4	3,951.88	3/4	4,308.64	3/4	4,665.29	3/4	5,008.82	3/4		3/4	3/4	3/4	3/4		3/4	3/4	
3	3,601.62	3	3,959.33	3	4,316.07	3	4,672.72	3	5,014.00	3		3		3		3		3	
1/4	3,609.07	1/4	3,966.78	1/4	4,323.50	1/4	4,680.15	1/4		1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,616.53	1/2	3,974.23	1/2	4,330.93	1/2	4,687.58	1/2		1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,623.98	3/4	3,981.68	3/4	4,338.36	3/4	4,695.01	3/4		3/4		3/4	3/4	3/4	3/4		3/4	3/4	
4	3,631.43	4	3,989.14	4	4,345.79	4	4,702.45	4		4		4		4		4		4	
1/4	3,638.88	1/4	3,996.57	1/4	4,353.22	1/4	4,709.88	1/4		1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,646.34	1/2	4,004.00	1/2	4,360.65	1/2	4,717.31	1/2		1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,653.79	3/4	4,011.43	3/4	4,368.08	3/4	4,724.74	3/4		3/4		3/4	3/4	3/4	3/4		3/4	3/4	
5	3,661.24	5	4,018.86	5	4,375.51	5	4,732.17	5		5		5		5		5		5	
1/4	3,668.69	1/4	4,026.29	1/4	4,382.94	1/4	4,739.60	1/4		1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,676.14	1/2	4,033.72	1/2	4,390.37	1/2	4,747.03	1/2		1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,683.60	3/4	4,041.15	3/4	4,397.80	3/4	4,754.46	3/4		3/4		3/4	3/4	3/4	3/4		3/4	3/4	
6	3,691.05	6	4,048.58	6	4,405.23	6	4,761.89	6		6		6		6		6		6	
1/4	3,698.50	1/4	4,056.01	1/4	4,412.66	1/4	4,769.24	1/4		1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,705.95	1/2	4,063.44	1/2	4,420.09	1/2	4,776.60	1/2		1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,713.40	3/4	4,070.87	3/4	4,427.52	3/4	4,783.96	3/4		3/4		3/4	3/4	3/4	3/4		3/4	3/4	
7	3,720.86	7	4,078.30	7	4,434.95	7	4,791.32	7		7		7		7		7		7	
1/4	3,728.31	1/4	4,085.73	1/4	4,442.38	1/4	4,798.67	1/4		1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,735.76	1/2	4,093.16	1/2	4,449.81	1/2	4,806.03	1/2		1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,743.21	3/4	4,100.59	3/4	4,457.25	3/4	4,813.39	3/4		3/4		3/4	3/4	3/4	3/4		3/4	3/4	
8	3,750.67	8	4,108.02	8	4,464.68	8	4,820.74	8		8		8		8		8		8	
1/4	3,758.12	1/4	4,115.45	1/4	4,472.11	1/4	4,828.10	1/4		1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,765.57	1/2	4,122.88	1/2	4,479.54	1/2	4,835.46	1/2		1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,773.02	3/4	4,130.31	3/4	4,486.97	3/4	4,842.81	3/4		3/4		3/4	3/4	3/4	3/4		3/4	3/4	
9	3,780.47	9	4,137.74	9	4,494.40	9	4,850.17	9		9		9		9		9		9	
1/4	3,787.93	1/4	4,145.17	1/4	4,501.83	1/4	4,857.53	1/4		1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,795.38	1/2	4,152.60	1/2	4,509.26	1/2	4,864.89	1/2		1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,802.83	3/4	4,160.03	3/4	4,516.69	3/4	4,872.25	3/4		3/4		3/4	3/4	3/4	3/4		3/4	3/4	
10	3,810.28	10	4,167.46	10	4,524.12	10	4,879.61	10		10		10		10		10		10	
1/4	3,817.74	1/4	4,174.89	1/4	4,531.55	1/4	4,886.96	1/4		1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,825.19	1/2	4,182.32	1/2	4,538.98	1/2	4,894.32	1/2		1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,832.64	3/4	4,189.75	3/4	4,546.41	3/4	4,901.67	3/4		3/4		3/4	3/4	3/4	3/4		3/4	3/4	
11	3,840.09	11	4,197.18	11	4,553.84	11	4,909.03	11		11		11		11		11		11	
1/4	3,847.54	1/4	4,204.62	1/4	4,561.27	1/4	4,916.37	1/4		1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,855.00	1/2	4,212.05	1/2	4,568.70	1/2	4,923.72	1/2		1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,862.45	3/4	4,219.48	3/4	4,576.13	3/4	4,931.06	3/4		3/4		3/4	3/4	3/4	3/4		3/4	3/4	

STRAPPED: 07/18/2018 CL
 CALCULATED: 07/19/2018 CL
 PRINTED: 07/20/2018 SW

CANCELS AND SUPERCEDES
 ALL PRIOR TO 07/2018

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
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BARGE "E2MS 311"

1 STBD

INNAGE TABLE

HERMETIC

GAUGE HEIGHT 15'-09 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	15.27	0	303.20	0	652.24	0	1,009.46	0	1,366.96	0	1,724.57	0	2,082.18	0	2,439.79	0	2,797.35	0	3,154.86
1/4	18.30	1/4	310.08	1/4	659.69	1/4	1,016.89	1/4	1,374.41	1/4	1,732.02	1/4	2,089.63	1/4	2,447.24	1/4	2,804.79	1/4	3,162.31
1/2	21.34	1/2	316.97	1/2	667.14	1/2	1,024.33	1/2	1,381.86	1/2	1,739.47	1/2	2,097.08	1/2	2,454.69	1/2	2,812.24	1/2	3,169.76
3/4	24.38	3/4	323.85	3/4	674.59	3/4	1,031.76	3/4	1,389.31	3/4	1,746.92	3/4	2,104.53	3/4	2,462.14	3/4	2,819.69	3/4	3,177.20
1	27.42	1	330.73	1	682.04	1	1,039.20	1	1,396.76	1	1,754.37	1	2,111.98	1	2,469.59	1	2,827.14	1	3,184.65
1/4	32.41	1/4	337.70	1/4	689.49	1/4	1,046.64	1/4	1,404.21	1/4	1,761.82	1/4	2,119.43	1/4	2,477.04	1/4	2,834.59	1/4	3,192.10
1/2	37.39	1/2	344.67	1/2	696.94	1/2	1,054.09	1/2	1,411.66	1/2	1,769.27	1/2	2,126.88	1/2	2,484.49	1/2	2,842.03	1/2	3,199.55
3/4	42.38	3/4	351.64	3/4	704.39	3/4	1,061.53	3/4	1,419.11	3/4	1,776.72	3/4	2,134.33	3/4	2,491.94	3/4	2,849.48	3/4	3,207.00
2	47.37	2	358.61	2	711.84	2	1,068.98	2	1,426.56	2	1,784.17	2	2,141.78	2	2,499.39	2	2,856.93	2	3,214.44
1/4	53.34	1/4	365.66	1/4	719.29	1/4	1,076.42	1/4	1,434.01	1/4	1,791.62	1/4	2,149.23	1/4	2,506.84	1/4	2,864.38	1/4	3,221.89
1/2	59.31	1/2	372.72	1/2	726.74	1/2	1,083.87	1/2	1,441.46	1/2	1,799.07	1/2	2,156.68	1/2	2,514.29	1/2	2,871.83	1/2	3,229.34
3/4	65.28	3/4	379.78	3/4	734.19	3/4	1,091.31	3/4	1,448.92	3/4	1,806.52	3/4	2,164.13	3/4	2,521.74	3/4	2,879.28	3/4	3,236.79
3	71.25	3	386.83	3	741.64	3	1,098.76	3	1,456.37	3	1,813.97	3	2,171.58	3	2,529.19	3	2,886.72	3	3,244.24
1/4	77.33	1/4	393.98	1/4	749.09	1/4	1,106.21	1/4	1,463.82	1/4	1,821.43	1/4	2,179.03	1/4	2,536.64	1/4	2,894.17	1/4	3,251.69
1/2	83.42	1/2	401.12	1/2	756.54	1/2	1,113.66	1/2	1,471.27	1/2	1,828.88	1/2	2,186.48	1/2	2,544.09	1/2	2,901.62	1/2	3,259.13
3/4	89.50	3/4	408.27	3/4	763.99	3/4	1,121.11	3/4	1,478.72	3/4	1,836.33	3/4	2,193.94	3/4	2,551.54	3/4	2,909.07	3/4	3,266.58
4	95.59	4	415.41	4	771.44	4	1,128.56	4	1,486.17	4	1,843.78	4	2,201.39	4	2,558.99	4	2,916.52	4	3,274.03
1/4	101.77	1/4	422.64	1/4	778.89	1/4	1,136.01	1/4	1,493.62	1/4	1,851.23	1/4	2,208.84	1/4	2,566.45	1/4	2,923.96	1/4	3,281.48
1/2	107.95	1/2	429.87	1/2	786.34	1/2	1,143.46	1/2	1,501.07	1/2	1,858.68	1/2	2,216.29	1/2	2,573.90	1/2	2,931.41	1/2	3,288.93
3/4	114.13	3/4	437.10	3/4	793.80	3/4	1,150.91	3/4	1,508.52	3/4	1,866.13	3/4	2,223.74	3/4	2,581.35	3/4	2,938.86	3/4	3,296.37
5	120.31	5	444.34	5	801.25	5	1,158.36	5	1,515.97	5	1,873.58	5	2,231.19	5	2,588.80	5	2,946.31	5	3,303.82
1/4	126.58	1/4	451.65	1/4	808.68	1/4	1,165.81	1/4	1,523.42	1/4	1,881.03	1/4	2,238.64	1/4	2,596.24	1/4	2,953.76	1/4	3,311.27
1/2	132.85	1/2	458.97	1/2	816.12	1/2	1,173.26	1/2	1,530.87	1/2	1,888.48	1/2	2,246.09	1/2	2,603.69	1/2	2,961.21	1/2	3,318.72
3/4	139.12	3/4	466.29	3/4	823.55	3/4	1,180.71	3/4	1,538.32	3/4	1,895.93	3/4	2,253.54	3/4	2,611.14	3/4	2,968.65	3/4	3,326.17
6	145.39	6	473.61	6	830.99	6	1,188.16	6	1,545.77	6	1,903.38	6	2,260.99	6	2,618.59	6	2,976.10	6	3,333.62
1/4	151.74	1/4	481.02	1/4	838.43	1/4	1,195.61	1/4	1,553.22	1/4	1,910.83	1/4	2,268.44	1/4	2,626.04	1/4	2,983.55	1/4	3,341.06
1/2	158.10	1/2	488.42	1/2	845.86	1/2	1,203.06	1/2	1,560.67	1/2	1,918.28	1/2	2,275.89	1/2	2,633.48	1/2	2,991.00	1/2	3,348.51
3/4	164.46	3/4	495.83	3/4	853.30	3/4	1,210.51	3/4	1,568.12	3/4	1,925.73	3/4	2,283.34	3/4	2,640.93	3/4	2,998.45	3/4	3,355.96
7	170.82	7	503.24	7	860.73	7	1,217.96	7	1,575.57	7	1,933.18	7	2,290.79	7	2,648.38	7	3,005.89	7	3,363.41
1/4	177.26	1/4	510.69	1/4	868.17	1/4	1,225.41	1/4	1,583.02	1/4	1,940.63	1/4	2,298.24	1/4	2,655.83	1/4	3,013.34	1/4	3,370.86
1/2	183.70	1/2	518.14	1/2	875.61	1/2	1,232.86	1/2	1,590.47	1/2	1,948.08	1/2	2,305.69	1/2	2,663.28	1/2	3,020.79	1/2	3,378.30
3/4	190.15	3/4	525.59	3/4	883.04	3/4	1,240.31	3/4	1,597.92	3/4	1,955.53	3/4	2,313.14	3/4	2,670.73	3/4	3,028.24	3/4	3,385.75
8	196.59	8	533.04	8	890.48	8	1,247.76	8	1,605.37	8	1,962.98	8	2,320.59	8	2,678.17	8	3,035.69	8	3,393.20
1/4	203.13	1/4	540.49	1/4	897.91	1/4	1,255.21	1/4	1,612.82	1/4	1,970.43	1/4	2,328.04	1/4	2,685.62	1/4	3,043.14	1/4	3,400.65
1/2	209.66	1/2	547.94	1/2	905.35	1/2	1,262.66	1/2	1,620.27	1/2	1,977.88	1/2	2,335.49	1/2	2,693.07	1/2	3,050.58	1/2	3,408.10
3/4	216.19	3/4	555.39	3/4	912.79	3/4	1,270.11	3/4	1,627.72	3/4	1,985.33	3/4	2,342.94	3/4	2,700.52	3/4	3,058.03	3/4	3,415.55
9	222.72	9	562.84	9	920.22	9	1,277.56	9	1,635.17	9	1,992.78	9	2,350.39	9	2,707.97	9	3,065.48	9	3,422.99
1/4	229.34	1/4	570.29	1/4	927.66	1/4	1,285.01	1/4	1,642.62	1/4	2,000.23	1/4	2,357.84	1/4	2,715.42	1/4	3,072.93	1/4	3,430.44
1/2	235.96	1/2	577.74	1/2	935.10	1/2	1,292.46	1/2	1,650.07	1/2	2,007.68	1/2	2,365.29	1/2	2,722.86	1/2	3,080.38	1/2	3,437.89
3/4	242.58	3/4	585.19	3/4	942.53	3/4	1,299.91	3/4	1,657.52	3/4	2,015.13	3/4	2,372.74	3/4	2,730.31	3/4	3,087.83	3/4	3,445.34
10	249.20	10	592.64	10	949.97	10	1,307.36	10	1,664.97	10	2,022.58	10	2,380.19	10	2,737.76	10	3,095.27	10	3,452.79
1/4	255.91	1/4	600.09	1/4	957.40	1/4	1,314.81	1/4	1,672.42	1/4	2,030.03	1/4	2,387.64	1/4	2,745.21	1/4	3,102.72	1/4	3,460.23
1/2	262.61	1/2	607.54	1/2	964.84	1/2	1,322.26	1/2	1,679.87	1/2	2,037.48	1/2	2,395.09	1/2	2,752.66	1/2	3,110.17	1/2	3,467.68
3/4	269.32	3/4	614.99	3/4	972.28	3/4	1,329.71	3/4	1,687.32	3/4	2,044.93	3/4	2,402.54	3/4	2,760.10	3/4	3,117.62	3/4	3,475.13
11	276.03	11	622.44	11	979.71	11	1,337.16	11	1,694.77	11	2,052.38	11	2,409.99	11	2,767.55	11	3,125.07	11	3,482.58
1/4	282.82	1/4	629.89	1/4	987.15	1/4	1,344.61	1/4	1,702.22	1/4	2,059.83	1/4	2,417.44	1/4	2,775.00	1/4	3,132.51	1/4	3,490.03
1/2	289.61	1/2	637.34	1/2	994.58	1/2	1,352.06	1/2	1,709.67	1/2	2,067.28	1/2	2,424.89	1/2	2,782.45	1/2	3,139.96	1/2	3,497.48
3/4	296.41	3/4	644.79	3/4	1,002.02	3/4	1,359.51	3/4	1,717.12	3/4	2,074.73	3/4	2,432.34	3/4	2,789.90	3/4	3,147.41	3/4	3,504.92

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 LIP OF 2" HERMETIC VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77588
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BARGE "E2MS 311"

1 STBD

INNAGE TABLE

HERMETIC

GAUGE HEIGHT 15'-09 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,512.37	0	3,869.89	0	4,226.70	0	4,583.15	0	4,937.80	0		0		0		0		0	
1/4	3,519.82	1/4	3,877.33	1/4	4,234.12	1/4	4,590.58	1/4	4,945.08	1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,527.27	1/2	3,884.78	1/2	4,241.55	1/2	4,598.01	1/2	4,952.37	1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,534.72	3/4	3,892.23	3/4	4,248.97	3/4	4,605.43	3/4	4,959.65	3/4		3/4	3/4	3/4	3/4		3/4	3/4	
1	3,542.17	1	3,899.68	1	4,256.40	1	4,612.86	1	4,966.94	1		1		1		1		1	
1/4	3,549.61	1/4	3,907.13	1/4	4,263.83	1/4	4,620.28	1/4	4,973.36	1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,557.06	1/2	3,914.58	1/2	4,271.25	1/2	4,627.71	1/2	4,979.78	1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,564.51	3/4	3,922.02	3/4	4,278.68	3/4	4,635.14	3/4	4,986.21	3/4		3/4	3/4	3/4	3/4		3/4	3/4	
2	3,571.96	2	3,929.47	2	4,286.11	2	4,642.56	2	4,992.63	2		2		2		2		2	
1/4	3,579.41	1/4	3,936.92	1/4	4,293.53	1/4	4,649.99	1/4	4,997.81	1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,586.85	1/2	3,944.37	1/2	4,300.96	1/2	4,657.42	1/2	5,002.99	1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,594.30	3/4	3,951.82	3/4	4,308.38	3/4	4,664.84	3/4	5,008.18	3/4		3/4	3/4	3/4	3/4		3/4	3/4	
3	3,601.75	3	3,959.26	3	4,315.81	3	4,672.27	3	5,013.36	3		3		3		3		3	
1/4	3,609.20	1/4	3,966.71	1/4	4,323.24	1/4	4,679.69	1/4		1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,616.65	1/2	3,974.16	1/2	4,330.66	1/2	4,687.12	1/2		1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,624.10	3/4	3,981.61	3/4	4,338.09	3/4	4,694.55	3/4		3/4		3/4	3/4	3/4	3/4		3/4	3/4	
4	3,631.54	4	3,989.06	4	4,345.51	4	4,701.97	4		4		4		4		4		4	
1/4	3,638.99	1/4	3,996.48	1/4	4,352.94	1/4	4,709.40	1/4		1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,646.44	1/2	4,003.91	1/2	4,360.37	1/2	4,716.82	1/2		1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,653.89	3/4	4,011.34	3/4	4,367.79	3/4	4,724.25	3/4		3/4		3/4	3/4	3/4	3/4		3/4	3/4	
5	3,661.34	5	4,018.76	5	4,375.22	5	4,731.68	5		5		5		5		5		5	
1/4	3,668.78	1/4	4,026.19	1/4	4,382.65	1/4	4,739.10	1/4		1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,676.23	1/2	4,033.61	1/2	4,390.07	1/2	4,746.53	1/2		1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,683.68	3/4	4,041.04	3/4	4,397.50	3/4	4,753.96	3/4		3/4		3/4	3/4	3/4	3/4		3/4	3/4	
6	3,691.13	6	4,048.47	6	4,404.92	6	4,761.38	6		6		6		6		6		6	
1/4	3,698.58	1/4	4,055.89	1/4	4,412.35	1/4	4,768.73	1/4		1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,706.03	1/2	4,063.32	1/2	4,419.78	1/2	4,776.09	1/2		1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,713.47	3/4	4,070.75	3/4	4,427.20	3/4	4,783.44	3/4		3/4		3/4	3/4	3/4	3/4		3/4	3/4	
7	3,720.92	7	4,078.17	7	4,434.63	7	4,790.79	7		7		7		7		7		7	
1/4	3,728.37	1/4	4,085.60	1/4	4,442.06	1/4	4,798.15	1/4		1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,735.82	1/2	4,093.02	1/2	4,449.48	1/2	4,805.50	1/2		1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,743.27	3/4	4,100.45	3/4	4,456.91	3/4	4,812.85	3/4		3/4		3/4	3/4	3/4	3/4		3/4	3/4	
8	3,750.71	8	4,107.88	8	4,464.33	8	4,820.21	8		8		8		8		8		8	
1/4	3,758.16	1/4	4,115.30	1/4	4,471.76	1/4	4,827.56	1/4		1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,765.61	1/2	4,122.73	1/2	4,479.19	1/2	4,834.91	1/2		1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,773.06	3/4	4,130.15	3/4	4,486.61	3/4	4,842.26	3/4		3/4		3/4	3/4	3/4	3/4		3/4	3/4	
9	3,780.51	9	4,137.58	9	4,494.04	9	4,849.62	9		9		9		9		9		9	
1/4	3,787.96	1/4	4,145.01	1/4	4,501.46	1/4	4,856.97	1/4		1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,795.40	1/2	4,152.43	1/2	4,508.89	1/2	4,864.33	1/2		1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,802.85	3/4	4,159.86	3/4	4,516.32	3/4	4,871.68	3/4		3/4		3/4	3/4	3/4	3/4		3/4	3/4	
10	3,810.30	10	4,167.29	10	4,523.74	10	4,879.04	10		10		10		10		10		10	
1/4	3,817.75	1/4	4,174.71	1/4	4,531.17	1/4	4,886.39	1/4		1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,825.20	1/2	4,182.14	1/2	4,538.60	1/2	4,893.74	1/2		1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,832.64	3/4	4,189.56	3/4	4,546.02	3/4	4,901.09	3/4		3/4		3/4	3/4	3/4	3/4		3/4	3/4	
11	3,840.09	11	4,196.99	11	4,553.45	11	4,908.44	11		11		11		11		11		11	
1/4	3,847.54	1/4	4,204.42	1/4	4,560.87	1/4	4,915.78	1/4		1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,854.99	1/2	4,211.84	1/2	4,568.30	1/2	4,923.12	1/2		1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,862.44	3/4	4,219.27	3/4	4,575.73	3/4	4,930.46	3/4		3/4		3/4	3/4	3/4	3/4		3/4	3/4	

STRAPPED: 07/18/2018 CL
 CALCULATED: 07/19/2018 CL
 PRINTED: 07/20/2018 SW

CANCELS AND SUPERCEDES
 ALL PRIOR TO 07/2018

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
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 Pearland, Texas 77588
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BARGE "E2MS 311"

2 PORT INNAGE TABLE

HERMETIC GAUGE HEIGHT 15'-09"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	15.31	0	358.86	0	717.56	0	1,066.54	0	1,420.49	0	1,779.19	0	2,137.89	0	2,496.59	0	2,855.29	0	3,213.99
1/4	19.98	1/4	366.33	1/4	725.03	1/4	1,073.70	1/4	1,427.97	1/4	1,786.67	1/4	2,145.37	1/4	2,504.06	1/4	2,862.76	1/4	3,221.46
1/2	24.65	1/2	373.81	1/2	732.50	1/2	1,080.87	1/2	1,435.44	1/2	1,794.14	1/2	2,152.84	1/2	2,511.54	1/2	2,870.24	1/2	3,228.94
3/4	29.32	3/4	381.28	3/4	739.97	3/4	1,088.04	3/4	1,442.91	3/4	1,801.61	3/4	2,160.31	3/4	2,519.01	3/4	2,877.71	3/4	3,236.41
1	33.99	1	388.75	1	747.45	1	1,095.20	1	1,450.39	1	1,809.09	1	2,167.78	1	2,526.48	1	2,885.18	1	3,243.88
1/4	40.53	1/4	396.22	1/4	754.92	1/4	1,102.38	1/4	1,457.86	1/4	1,816.56	1/4	2,175.26	1/4	2,533.96	1/4	2,892.66	1/4	3,251.35
1/2	47.07	1/2	403.70	1/2	762.39	1/2	1,109.55	1/2	1,465.33	1/2	1,824.03	1/2	2,182.73	1/2	2,541.43	1/2	2,900.13	1/2	3,258.83
3/4	53.60	3/4	411.17	3/4	769.86	3/4	1,116.73	3/4	1,472.80	3/4	1,831.50	3/4	2,190.20	3/4	2,548.90	3/4	2,907.60	3/4	3,266.30
2	60.14	2	418.64	2	777.34	2	1,123.90	2	1,480.28	2	1,838.98	2	2,197.68	2	2,556.38	2	2,915.07	2	3,273.77
1/4	67.58	1/4	426.12	1/4	784.81	1/4	1,131.08	1/4	1,487.75	1/4	1,846.45	1/4	2,205.15	1/4	2,563.85	1/4	2,922.55	1/4	3,281.25
1/2	75.01	1/2	433.59	1/2	792.28	1/2	1,138.25	1/2	1,495.22	1/2	1,853.92	1/2	2,212.62	1/2	2,571.32	1/2	2,930.02	1/2	3,288.72
3/4	82.45	3/4	441.06	3/4	799.76	3/4	1,145.42	3/4	1,502.70	3/4	1,861.40	3/4	2,220.09	3/4	2,578.79	3/4	2,937.49	3/4	3,296.19
3	89.89	3	448.53	3	807.23	3	1,152.60	3	1,510.17	3	1,868.87	3	2,227.57	3	2,586.27	3	2,944.97	3	3,303.67
1/4	97.35	1/4	456.01	1/4	814.70	1/4	1,159.79	1/4	1,517.64	1/4	1,876.34	1/4	2,235.04	1/4	2,593.74	1/4	2,952.44	1/4	3,311.14
1/2	104.81	1/2	463.48	1/2	822.17	1/2	1,166.98	1/2	1,525.11	1/2	1,883.81	1/2	2,242.51	1/2	2,601.21	1/2	2,959.91	1/2	3,318.61
3/4	112.27	3/4	470.95	3/4	829.65	3/4	1,174.17	3/4	1,532.59	3/4	1,891.29	3/4	2,249.99	3/4	2,608.69	3/4	2,967.38	3/4	3,326.08
4	119.74	4	478.43	4	837.12	4	1,181.36	4	1,540.06	4	1,898.76	4	2,257.46	4	2,616.16	4	2,974.86	4	3,333.56
1/4	127.21	1/4	485.90	1/4	844.31	1/4	1,188.83	1/4	1,547.53	1/4	1,906.23	1/4	2,264.93	1/4	2,623.63	1/4	2,982.33	1/4	3,341.03
1/2	134.68	1/2	493.37	1/2	851.50	1/2	1,196.31	1/2	1,555.01	1/2	1,913.71	1/2	2,272.40	1/2	2,631.10	1/2	2,989.80	1/2	3,348.50
3/4	142.15	3/4	500.84	3/4	858.69	3/4	1,203.78	3/4	1,562.48	3/4	1,921.18	3/4	2,279.88	3/4	2,638.58	3/4	2,997.28	3/4	3,355.98
5	149.62	5	508.32	5	865.88	5	1,211.25	5	1,569.95	5	1,928.65	5	2,287.35	5	2,646.05	5	3,004.75	5	3,363.45
1/4	157.10	1/4	515.79	1/4	873.05	1/4	1,218.73	1/4	1,577.43	1/4	1,936.12	1/4	2,294.82	1/4	2,653.52	1/4	3,012.22	1/4	3,370.92
1/2	164.57	1/2	523.26	1/2	880.22	1/2	1,226.20	1/2	1,584.90	1/2	1,943.60	1/2	2,302.30	1/2	2,661.00	1/2	3,019.69	1/2	3,378.39
3/4	172.04	3/4	530.74	3/4	887.38	3/4	1,233.67	3/4	1,592.37	3/4	1,951.07	3/4	2,309.77	3/4	2,668.47	3/4	3,027.17	3/4	3,385.87
6	179.51	6	538.21	6	894.55	6	1,241.14	6	1,599.84	6	1,958.54	6	2,317.24	6	2,675.94	6	3,034.64	6	3,393.34
1/4	186.99	1/4	545.68	1/4	901.72	1/4	1,248.62	1/4	1,607.32	1/4	1,966.02	1/4	2,324.72	1/4	2,683.41	1/4	3,042.11	1/4	3,400.81
1/2	194.46	1/2	553.15	1/2	908.88	1/2	1,256.09	1/2	1,614.79	1/2	1,973.49	1/2	2,332.19	1/2	2,690.89	1/2	3,049.59	1/2	3,408.29
3/4	201.93	3/4	560.63	3/4	916.05	3/4	1,263.56	3/4	1,622.26	3/4	1,980.96	3/4	2,339.66	3/4	2,698.36	3/4	3,057.06	3/4	3,415.76
7	209.40	7	568.10	7	923.21	7	1,271.04	7	1,629.74	7	1,988.43	7	2,347.13	7	2,705.83	7	3,064.53	7	3,423.23
1/4	216.88	1/4	575.57	1/4	930.38	1/4	1,278.51	1/4	1,637.21	1/4	1,995.91	1/4	2,354.61	1/4	2,713.31	1/4	3,072.01	1/4	3,430.70
1/2	224.35	1/2	583.04	1/2	937.55	1/2	1,285.98	1/2	1,644.68	1/2	2,003.38	1/2	2,362.08	1/2	2,720.78	1/2	3,079.48	1/2	3,438.18
3/4	231.82	3/4	590.52	3/4	944.71	3/4	1,293.45	3/4	1,652.15	3/4	2,010.85	3/4	2,369.55	3/4	2,728.25	3/4	3,086.95	3/4	3,445.65
8	239.30	8	597.99	8	951.88	8	1,300.93	8	1,659.63	8	2,018.33	8	2,377.03	8	2,735.72	8	3,094.42	8	3,453.12
1/4	246.77	1/4	605.46	1/4	959.05	1/4	1,308.40	1/4	1,667.10	1/4	2,025.80	1/4	2,384.50	1/4	2,743.20	1/4	3,101.90	1/4	3,460.60
1/2	254.24	1/2	612.94	1/2	966.21	1/2	1,315.87	1/2	1,674.57	1/2	2,033.27	1/2	2,391.97	1/2	2,750.67	1/2	3,109.37	1/2	3,468.07
3/4	261.71	3/4	620.41	3/4	973.38	3/4	1,323.35	3/4	1,682.05	3/4	2,040.74	3/4	2,399.44	3/4	2,758.14	3/4	3,116.84	3/4	3,475.54
9	269.19	9	627.88	9	980.54	9	1,330.82	9	1,689.52	9	2,048.22	9	2,406.92	9	2,765.62	9	3,124.32	9	3,483.01
1/4	276.66	1/4	635.35	1/4	987.71	1/4	1,338.29	1/4	1,696.99	1/4	2,055.69	1/4	2,414.39	1/4	2,773.09	1/4	3,131.79	1/4	3,490.49
1/2	284.13	1/2	642.83	1/2	994.88	1/2	1,345.77	1/2	1,704.46	1/2	2,063.16	1/2	2,421.86	1/2	2,780.56	1/2	3,139.26	1/2	3,497.96
3/4	291.61	3/4	650.30	3/4	1,002.04	3/4	1,353.24	3/4	1,711.94	3/4	2,070.64	3/4	2,429.34	3/4	2,788.03	3/4	3,146.73	3/4	3,505.43
10	299.08	10	657.77	10	1,009.21	10	1,360.71	10	1,719.41	10	2,078.11	10	2,436.81	10	2,795.51	10	3,154.21	10	3,512.91
1/4	306.55	1/4	665.25	1/4	1,016.37	1/4	1,368.18	1/4	1,726.88	1/4	2,085.58	1/4	2,444.28	1/4	2,802.98	1/4	3,161.68	1/4	3,520.38
1/2	314.02	1/2	672.72	1/2	1,023.54	1/2	1,375.66	1/2	1,734.36	1/2	2,093.06	1/2	2,451.75	1/2	2,810.45	1/2	3,169.15	1/2	3,527.85
3/4	321.50	3/4	680.19	3/4	1,030.71	3/4	1,383.13	3/4	1,741.83	3/4	2,100.53	3/4	2,459.23	3/4	2,817.93	3/4	3,176.63	3/4	3,535.32
11	328.97	11	687.66	11	1,037.87	11	1,390.60	11	1,749.30	11	2,108.00	11	2,466.70	11	2,825.40	11	3,184.10	11	3,542.80
1/4	336.44	1/4	695.14	1/4	1,045.04	1/4	1,398.08	1/4	1,756.77	1/4	2,115.47	1/4	2,474.17	1/4	2,832.87	1/4	3,191.57	1/4	3,550.27
1/2	343.92	1/2	702.61	1/2	1,052.21	1/2	1,405.55	1/2	1,764.25	1/2	2,122.95	1/2	2,481.65	1/2	2,840.35	1/2	3,199.04	1/2	3,557.74
3/4	351.39	3/4	710.08	3/4	1,059.37	3/4	1,413.02	3/4	1,771.72	3/4	2,130.42	3/4	2,489.12	3/4	2,847.82	3/4	3,206.52	3/4	3,565.22

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-06" FORWARD OF AFT BULKHEAD.

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



BARGE "E2MS 311"

2 PORT INNAGE TABLE HERMETIC GAUGE HEIGHT 15'-09"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,572.69	0	3,931.39	0	4,289.38	0	4,647.02	0	5,003.01	0		0		0		0		0	
1/4	3,580.16	1/4	3,938.86	1/4	4,296.83	1/4	4,654.47	1/4	5,010.32	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,587.64	1/2	3,946.33	1/2	4,304.28	1/2	4,661.92	1/2	5,017.64	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,595.11	3/4	3,953.81	3/4	4,311.73	3/4	4,669.37	3/4	5,024.95	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	3,602.58	1	3,961.28	1	4,319.18	1	4,676.82	1	5,032.27	1		1		1		1		1	
1/4	3,610.05	1/4	3,968.75	1/4	4,326.63	1/4	4,684.27	1/4	5,038.72	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,617.53	1/2	3,976.23	1/2	4,334.09	1/2	4,691.72	1/2	5,045.17	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,625.00	3/4	3,983.70	3/4	4,341.54	3/4	4,699.17	3/4	5,051.62	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	3,632.47	2	3,991.17	2	4,348.99	2	4,706.63	2	5,058.07	2		2		2		2		2	
1/4	3,639.95	1/4	3,998.64	1/4	4,356.44	1/4	4,714.08	1/4	5,063.27	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,647.42	1/2	4,006.12	1/2	4,363.89	1/2	4,721.53	1/2	5,068.48	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,654.89	3/4	4,013.59	3/4	4,371.34	3/4	4,728.98	3/4	5,073.69	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	3,662.36	3	4,021.06	3	4,378.79	3	4,736.43	3	5,078.89	3		3		3		3		3	
1/4	3,669.84	1/4	4,028.54	1/4	4,386.24	1/4	4,743.88	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,677.31	1/2	4,036.01	1/2	4,393.69	1/2	4,751.33	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,684.78	3/4	4,043.48	3/4	4,401.14	3/4	4,758.78	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	3,692.26	4	4,050.96	4	4,408.59	4	4,766.23	4		4		4		4		4		4	
1/4	3,699.73	1/4	4,058.41	1/4	4,416.04	1/4	4,773.68	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,707.20	1/2	4,065.86	1/2	4,423.50	1/2	4,781.13	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,714.67	3/4	4,073.31	3/4	4,430.95	3/4	4,788.58	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	3,722.15	5	4,080.76	5	4,438.40	5	4,796.04	5		5		5		5		5		5	
1/4	3,729.62	1/4	4,088.21	1/4	4,445.85	1/4	4,803.49	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,737.09	1/2	4,095.66	1/2	4,453.30	1/2	4,810.94	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,744.57	3/4	4,103.11	3/4	4,460.75	3/4	4,818.39	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	3,752.04	6	4,110.56	6	4,468.20	6	4,825.84	6		6		6		6		6		6	
1/4	3,759.51	1/4	4,118.01	1/4	4,475.65	1/4	4,833.22	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,766.98	1/2	4,125.46	1/2	4,483.10	1/2	4,840.61	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,774.46	3/4	4,132.91	3/4	4,490.55	3/4	4,847.99	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	3,781.93	7	4,140.36	7	4,498.00	7	4,855.38	7		7		7		7		7		7	
1/4	3,789.40	1/4	4,147.82	1/4	4,505.45	1/4	4,862.76	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,796.88	1/2	4,155.27	1/2	4,512.90	1/2	4,870.15	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,804.35	3/4	4,162.72	3/4	4,520.36	3/4	4,877.54	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	3,811.82	8	4,170.17	8	4,527.81	8	4,884.92	8		8		8		8		8		8	
1/4	3,819.30	1/4	4,177.62	1/4	4,535.26	1/4	4,892.31	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,826.77	1/2	4,185.07	1/2	4,542.71	1/2	4,899.69	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,834.24	3/4	4,192.52	3/4	4,550.16	3/4	4,907.08	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	3,841.71	9	4,199.97	9	4,557.61	9	4,914.46	9		9		9		9		9		9	
1/4	3,849.19	1/4	4,207.42	1/4	4,565.06	1/4	4,921.85	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,856.66	1/2	4,214.87	1/2	4,572.51	1/2	4,929.23	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,864.13	3/4	4,222.32	3/4	4,579.96	3/4	4,936.62	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	3,871.61	10	4,229.77	10	4,587.41	10	4,944.00	10		10		10		10		10		10	
1/4	3,879.08	1/4	4,237.23	1/4	4,594.86	1/4	4,951.38	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,886.55	1/2	4,244.68	1/2	4,602.31	1/2	4,958.77	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,894.02	3/4	4,252.13	3/4	4,609.77	3/4	4,966.15	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	3,901.50	11	4,259.58	11	4,617.22	11	4,973.53	11		11		11		11		11		11	
1/4	3,908.97	1/4	4,267.03	1/4	4,624.67	1/4	4,980.90	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,916.44	1/2	4,274.48	1/2	4,632.12	1/2	4,988.27	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,923.92	3/4	4,281.93	3/4	4,639.57	3/4	4,995.64	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

STRAPPED: 07/18/2018 CL
CALCULATED: 07/19/2018 CL
PRINTED: 07/20/2018 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2018

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "E2MS 311"

2 STBD INNAGE TABLE HERMETIC GAUGE HEIGHT 15'-09"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	15.32	0	358.99	0	717.82	0	1,076.25	0	1,434.98	0	1,793.80	0	2,152.63	0	2,511.46	0	2,870.23	0	3,228.95
1/4	19.99	1/4	366.47	1/4	725.30	1/4	1,083.71	1/4	1,442.45	1/4	1,801.28	1/4	2,160.11	1/4	2,518.94	1/4	2,877.70	1/4	3,236.43
1/2	24.66	1/2	373.95	1/2	732.77	1/2	1,091.17	1/2	1,449.93	1/2	1,808.76	1/2	2,167.58	1/2	2,526.41	1/2	2,885.18	1/2	3,243.90
3/4	29.33	3/4	381.42	3/4	740.25	3/4	1,098.63	3/4	1,457.40	3/4	1,816.23	3/4	2,175.06	3/4	2,533.89	3/4	2,892.65	3/4	3,251.37
1	34.00	1	388.90	1	747.72	1	1,106.09	1	1,464.88	1	1,823.71	1	2,182.54	1	2,541.36	1	2,900.12	1	3,258.85
1/4	40.54	1/4	396.37	1/4	755.20	1/4	1,113.56	1/4	1,472.35	1/4	1,831.18	1/4	2,190.01	1/4	2,548.84	1/4	2,907.60	1/4	3,266.32
1/2	47.08	1/2	403.85	1/2	762.68	1/2	1,121.03	1/2	1,479.83	1/2	1,838.66	1/2	2,197.49	1/2	2,556.32	1/2	2,915.07	1/2	3,273.79
3/4	53.62	3/4	411.32	3/4	770.15	3/4	1,128.50	3/4	1,487.30	3/4	1,846.13	3/4	2,204.96	3/4	2,563.79	3/4	2,922.54	3/4	3,281.27
2	60.16	2	418.80	2	777.63	2	1,135.97	2	1,494.78	2	1,853.61	2	2,212.44	2	2,571.27	2	2,930.02	2	3,288.74
1/4	67.60	1/4	426.27	1/4	785.10	1/4	1,143.44	1/4	1,502.26	1/4	1,861.08	1/4	2,219.91	1/4	2,578.74	1/4	2,937.49	1/4	3,296.21
1/2	75.04	1/2	433.75	1/2	792.58	1/2	1,150.91	1/2	1,509.73	1/2	1,868.56	1/2	2,227.39	1/2	2,586.22	1/2	2,944.96	1/2	3,303.69
3/4	82.48	3/4	441.23	3/4	800.05	3/4	1,158.38	3/4	1,517.21	3/4	1,876.04	3/4	2,234.86	3/4	2,593.69	3/4	2,952.44	3/4	3,311.16
3	89.92	3	448.70	3	807.53	3	1,165.85	3	1,524.68	3	1,883.51	3	2,242.34	3	2,601.17	3	2,959.91	3	3,318.63
1/4	97.38	1/4	456.18	1/4	815.01	1/4	1,173.33	1/4	1,532.16	1/4	1,890.99	1/4	2,249.82	1/4	2,608.64	1/4	2,967.38	1/4	3,326.11
1/2	104.85	1/2	463.65	1/2	822.48	1/2	1,180.81	1/2	1,539.63	1/2	1,898.46	1/2	2,257.29	1/2	2,616.12	1/2	2,974.86	1/2	3,333.58
3/4	112.31	3/4	471.13	3/4	829.96	3/4	1,188.28	3/4	1,547.11	3/4	1,905.94	3/4	2,264.77	3/4	2,623.60	3/4	2,982.33	3/4	3,341.05
4	119.78	4	478.60	4	837.43	4	1,195.76	4	1,554.59	4	1,913.41	4	2,272.24	4	2,631.07	4	2,989.80	4	3,348.53
1/4	127.25	1/4	486.08	1/4	844.91	1/4	1,203.23	1/4	1,562.06	1/4	1,920.89	1/4	2,279.72	1/4	2,638.55	1/4	2,997.28	1/4	3,356.00
1/2	134.73	1/2	493.55	1/2	852.38	1/2	1,210.71	1/2	1,569.54	1/2	1,928.37	1/2	2,287.19	1/2	2,646.02	1/2	3,004.75	1/2	3,363.47
3/4	142.20	3/4	501.03	3/4	859.86	3/4	1,218.18	3/4	1,577.01	3/4	1,935.84	3/4	2,294.67	3/4	2,653.50	3/4	3,012.22	3/4	3,370.95
5	149.68	5	508.51	5	867.33	5	1,225.66	5	1,584.49	5	1,943.32	5	2,302.15	5	2,660.97	5	3,019.70	5	3,378.42
1/4	157.15	1/4	515.98	1/4	874.80	1/4	1,233.13	1/4	1,591.96	1/4	1,950.79	1/4	2,309.62	1/4	2,668.45	1/4	3,027.17	1/4	3,385.89
1/2	164.63	1/2	523.46	1/2	882.26	1/2	1,240.61	1/2	1,599.44	1/2	1,958.27	1/2	2,317.10	1/2	2,675.92	1/2	3,034.64	1/2	3,393.37
3/4	172.10	3/4	530.93	3/4	889.72	3/4	1,248.09	3/4	1,606.91	3/4	1,965.74	3/4	2,324.57	3/4	2,683.39	3/4	3,042.12	3/4	3,400.84
6	179.58	6	538.41	6	897.18	6	1,255.56	6	1,614.39	6	1,973.22	6	2,332.05	6	2,690.87	6	3,049.59	6	3,408.31
1/4	187.06	1/4	545.88	1/4	904.64	1/4	1,263.04	1/4	1,621.87	1/4	1,980.69	1/4	2,339.52	1/4	2,698.34	1/4	3,057.06	1/4	3,415.79
1/2	194.53	1/2	553.36	1/2	912.10	1/2	1,270.51	1/2	1,629.34	1/2	1,988.17	1/2	2,347.00	1/2	2,705.81	1/2	3,064.54	1/2	3,423.26
3/4	202.01	3/4	560.83	3/4	919.56	3/4	1,277.99	3/4	1,636.82	3/4	1,995.65	3/4	2,354.47	3/4	2,713.29	3/4	3,072.01	3/4	3,430.73
7	209.48	7	568.31	7	927.02	7	1,285.46	7	1,644.29	7	2,003.12	7	2,361.95	7	2,720.76	7	3,079.48	7	3,438.21
1/4	216.96	1/4	575.79	1/4	934.49	1/4	1,292.94	1/4	1,651.77	1/4	2,010.60	1/4	2,369.43	1/4	2,728.23	1/4	3,086.96	1/4	3,445.68
1/2	224.43	1/2	583.26	1/2	941.95	1/2	1,300.41	1/2	1,659.24	1/2	2,018.07	1/2	2,376.90	1/2	2,735.71	1/2	3,094.43	1/2	3,453.15
3/4	231.91	3/4	590.74	3/4	949.41	3/4	1,307.89	3/4	1,666.72	3/4	2,025.55	3/4	2,384.38	3/4	2,743.18	3/4	3,101.90	3/4	3,460.63
8	239.38	8	598.21	8	956.87	8	1,315.37	8	1,674.19	8	2,033.02	8	2,391.85	8	2,750.65	8	3,109.38	8	3,468.10
1/4	246.86	1/4	605.69	1/4	964.33	1/4	1,322.84	1/4	1,681.67	1/4	2,040.50	1/4	2,399.33	1/4	2,758.13	1/4	3,116.85	1/4	3,475.57
1/2	254.34	1/2	613.16	1/2	971.79	1/2	1,330.32	1/2	1,689.15	1/2	2,047.97	1/2	2,406.80	1/2	2,765.60	1/2	3,124.32	1/2	3,483.05
3/4	261.81	3/4	620.64	3/4	979.25	3/4	1,337.79	3/4	1,696.62	3/4	2,055.45	3/4	2,414.28	3/4	2,773.07	3/4	3,131.80	3/4	3,490.52
9	269.29	9	628.12	9	986.71	9	1,345.27	9	1,704.10	9	2,062.93	9	2,421.75	9	2,780.55	9	3,139.27	9	3,497.99
1/4	276.76	1/4	635.59	1/4	994.17	1/4	1,352.74	1/4	1,711.57	1/4	2,070.40	1/4	2,429.23	1/4	2,788.02	1/4	3,146.74	1/4	3,505.47
1/2	284.24	1/2	643.07	1/2	1,001.64	1/2	1,360.22	1/2	1,719.05	1/2	2,077.88	1/2	2,436.71	1/2	2,795.50	1/2	3,154.22	1/2	3,512.94
3/4	291.71	3/4	650.54	3/4	1,009.10	3/4	1,367.70	3/4	1,726.52	3/4	2,085.35	3/4	2,444.18	3/4	2,802.97	3/4	3,161.69	3/4	3,520.41
10	299.19	10	658.02	10	1,016.56	10	1,375.17	10	1,734.00	10	2,092.83	10	2,451.66	10	2,810.44	10	3,169.17	10	3,527.89
1/4	306.66	1/4	665.49	1/4	1,024.02	1/4	1,382.65	1/4	1,741.48	1/4	2,100.30	1/4	2,459.13	1/4	2,817.92	1/4	3,176.64	1/4	3,535.36
1/2	314.14	1/2	672.97	1/2	1,031.48	1/2	1,390.12	1/2	1,748.95	1/2	2,107.78	1/2	2,466.61	1/2	2,825.39	1/2	3,184.11	1/2	3,542.84
3/4	321.62	3/4	680.44	3/4	1,038.94	3/4	1,397.60	3/4	1,756.43	3/4	2,115.26	3/4	2,474.08	3/4	2,832.86	3/4	3,191.59	3/4	3,550.31
11	329.09	11	687.92	11	1,046.40	11	1,405.07	11	1,763.90	11	2,122.73	11	2,481.56	11	2,840.34	11	3,199.06	11	3,557.78
1/4	336.57	1/4	695.40	1/4	1,053.86	1/4	1,412.55	1/4	1,771.38	1/4	2,130.21	1/4	2,489.04	1/4	2,847.81	1/4	3,206.53	1/4	3,565.26
1/2	344.04	1/2	702.87	1/2	1,061.33	1/2	1,420.02	1/2	1,778.85	1/2	2,137.68	1/2	2,496.51	1/2	2,855.28	1/2	3,214.01	1/2	3,572.73
3/4	351.52	3/4	710.35	3/4	1,068.79	3/4	1,427.50	3/4	1,786.33	3/4	2,145.16	3/4	2,503.99	3/4	2,862.76	3/4	3,221.48	3/4	3,580.20

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 LIP OF 2" HERMETIC VALVE.
GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-06" FORWARD OF AFT BULKHEAD.

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



BARGE "E2MS 311"

2 STBD

INNAGE TABLE

HERMETIC

GAUGE HEIGHT 15'-09"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,587.68	0	3,946.40	0	4,304.43	0	4,662.11	0	5,017.99	0		0		0		0		0	
1/4	3,595.15	1/4	3,953.87	1/4	4,311.88	1/4	4,669.56	1/4	5,025.30	1/4		1/4		1/4		1/4		1/4	
1/2	3,602.62	1/2	3,961.35	1/2	4,319.33	1/2	4,677.01	1/2	5,032.61	1/2		1/2		1/2		1/2		1/2	
3/4	3,610.10	3/4	3,968.82	3/4	4,326.78	3/4	4,684.46	3/4	5,039.92	3/4		3/4		3/4		3/4		3/4	
1	3,617.57	1	3,976.29	1	4,334.23	1	4,691.92	1	5,047.23	1		1		1		1		1	
1/4	3,625.04	1/4	3,983.77	1/4	4,341.69	1/4	4,699.37	1/4	5,053.67	1/4		1/4		1/4		1/4		1/4	
1/2	3,632.52	1/2	3,991.24	1/2	4,349.14	1/2	4,706.82	1/2	5,060.12	1/2		1/2		1/2		1/2		1/2	
3/4	3,639.99	3/4	3,998.71	3/4	4,356.59	3/4	4,714.27	3/4	5,066.57	3/4		3/4		3/4		3/4		3/4	
2	3,647.46	2	4,006.19	2	4,364.04	2	4,721.72	2	5,073.01	2		2		2		2		2	
1/4	3,654.94	1/4	4,013.66	1/4	4,371.49	1/4	4,729.17	1/4	5,078.21	1/4		1/4		1/4		1/4		1/4	
1/2	3,662.41	1/2	4,021.13	1/2	4,378.94	1/2	4,736.63	1/2	5,083.41	1/2		1/2		1/2		1/2		1/2	
3/4	3,669.88	3/4	4,028.61	3/4	4,386.40	3/4	4,744.08	3/4	5,088.61	3/4		3/4		3/4		3/4		3/4	
3	3,677.36	3	4,036.08	3	4,393.85	3	4,751.53	3	5,093.81	3		3		3		3		3	
1/4	3,684.83	1/4	4,043.55	1/4	4,401.30	1/4	4,758.98	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,692.30	1/2	4,051.03	1/2	4,408.75	1/2	4,766.43	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,699.78	3/4	4,058.50	3/4	4,416.20	3/4	4,773.88	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,707.25	4	4,065.97	4	4,423.65	4	4,781.34	4		4		4		4		4		4	
1/4	3,714.72	1/4	4,073.42	1/4	4,431.11	1/4	4,788.79	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,722.20	1/2	4,080.88	1/2	4,438.56	1/2	4,796.24	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,729.67	3/4	4,088.33	3/4	4,446.01	3/4	4,803.69	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,737.14	5	4,095.78	5	4,453.46	5	4,811.14	5		5		5		5		5		5	
1/4	3,744.62	1/4	4,103.23	1/4	4,460.91	1/4	4,818.59	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,752.09	1/2	4,110.68	1/2	4,468.36	1/2	4,826.05	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,759.56	3/4	4,118.13	3/4	4,475.82	3/4	4,833.50	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,767.04	6	4,125.59	6	4,483.27	6	4,840.95	6		6		6		6		6		6	
1/4	3,774.51	1/4	4,133.04	1/4	4,490.72	1/4	4,848.33	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,781.98	1/2	4,140.49	1/2	4,498.17	1/2	4,855.71	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,789.46	3/4	4,147.94	3/4	4,505.62	3/4	4,863.09	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,796.93	7	4,155.39	7	4,513.07	7	4,870.46	7		7		7		7		7		7	
1/4	3,804.40	1/4	4,162.85	1/4	4,520.53	1/4	4,877.84	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,811.88	1/2	4,170.30	1/2	4,527.98	1/2	4,885.22	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,819.35	3/4	4,177.75	3/4	4,535.43	3/4	4,892.60	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,826.82	8	4,185.20	8	4,542.88	8	4,899.98	8		8		8		8		8		8	
1/4	3,834.30	1/4	4,192.65	1/4	4,550.33	1/4	4,907.36	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,841.77	1/2	4,200.10	1/2	4,557.79	1/2	4,914.74	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,849.24	3/4	4,207.56	3/4	4,565.24	3/4	4,922.11	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,856.72	9	4,215.01	9	4,572.69	9	4,929.49	9		9		9		9		9		9	
1/4	3,864.19	1/4	4,222.46	1/4	4,580.14	1/4	4,936.87	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,871.66	1/2	4,229.91	1/2	4,587.59	1/2	4,944.25	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,879.14	3/4	4,237.36	3/4	4,595.04	3/4	4,951.63	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,886.61	10	4,244.81	10	4,602.50	10	4,959.01	10		10		10		10		10		10	
1/4	3,894.08	1/4	4,252.27	1/4	4,609.95	1/4	4,966.39	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,901.56	1/2	4,259.72	1/2	4,617.40	1/2	4,973.77	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,909.03	3/4	4,267.17	3/4	4,624.85	3/4	4,981.15	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,916.50	11	4,274.62	11	4,632.30	11	4,988.53	11		11		11		11		11		11	
1/4	3,923.98	1/4	4,282.07	1/4	4,639.75	1/4	4,995.89	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,931.45	1/2	4,289.52	1/2	4,647.21	1/2	5,003.26	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,938.93	3/4	4,296.98	3/4	4,654.66	3/4	5,010.62	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/18/2018 CL
 CALCULATED: 07/19/2018 CL
 PRINTED: 07/20/2018 SW

CANCELS AND SUPERCEDES
 ALL PRIOR TO 07/2018

PRECISION MEASUREMENT
 & ANALYSIS, INC.
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 Pearland, Texas 77588
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BARGE "E2MS 311"

3 PORT INNAGE TABLE

HERMETIC GAUGE HEIGHT 15'-09 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	15.26	0	357.56	0	714.49	0	1,061.77	0	1,414.70	0	1,771.32	0	2,127.22	0	2,483.83	0	2,840.16	0	3,196.46
1/4	19.91	1/4	365.00	1/4	721.92	1/4	1,068.91	1/4	1,422.13	1/4	1,778.74	1/4	2,134.65	1/4	2,491.26	1/4	2,847.58	1/4	3,203.85
1/2	24.57	1/2	372.43	1/2	729.36	1/2	1,076.05	1/2	1,429.56	1/2	1,785.15	1/2	2,142.08	1/2	2,498.68	1/2	2,855.00	1/2	3,211.25
3/4	29.22	3/4	379.87	3/4	736.80	3/4	1,083.19	3/4	1,436.99	3/4	1,793.57	3/4	2,149.51	3/4	2,506.11	3/4	2,862.43	3/4	3,218.64
1	33.88	1	387.30	1	744.23	1	1,090.33	1	1,444.42	1	1,800.98	1	2,156.93	1	2,513.53	1	2,869.85	1	3,226.04
1/4	40.39	1/4	394.74	1/4	751.67	1/4	1,097.54	1/4	1,451.86	1/4	1,808.40	1/4	2,164.36	1/4	2,520.95	1/4	2,877.27	1/4	3,233.43
1/2	46.91	1/2	402.18	1/2	759.10	1/2	1,104.75	1/2	1,459.29	1/2	1,815.81	1/2	2,171.79	1/2	2,528.38	1/2	2,884.69	1/2	3,240.83
3/4	53.42	3/4	409.61	3/4	766.54	3/4	1,111.96	3/4	1,466.72	3/4	1,823.23	3/4	2,179.22	3/4	2,535.80	3/4	2,892.12	3/4	3,248.22
2	59.94	2	417.05	2	773.98	2	1,119.17	2	1,474.15	2	1,830.64	2	2,186.64	2	2,543.23	2	2,899.54	2	3,255.62
1/4	67.35	1/4	424.48	1/4	781.41	1/4	1,126.38	1/4	1,481.58	1/4	1,838.06	1/4	2,194.07	1/4	2,550.65	1/4	2,906.96	1/4	3,263.01
1/2	74.76	1/2	431.92	1/2	788.85	1/2	1,133.59	1/2	1,489.01	1/2	1,845.47	1/2	2,201.50	1/2	2,558.08	1/2	2,914.39	1/2	3,270.40
3/4	82.17	3/4	439.36	3/4	796.28	3/4	1,140.80	3/4	1,496.44	3/4	1,852.88	3/4	2,208.93	3/4	2,565.50	3/4	2,921.81	3/4	3,277.80
3	89.59	3	446.79	3	803.72	3	1,148.01	3	1,503.87	3	1,860.30	3	2,216.35	3	2,572.92	3	2,929.23	3	3,285.19
1/4	97.02	1/4	454.23	1/4	811.09	1/4	1,155.24	1/4	1,511.30	1/4	1,867.71	1/4	2,223.78	1/4	2,580.35	1/4	2,936.66	1/4	3,292.59
1/2	104.46	1/2	461.66	1/2	818.47	1/2	1,162.46	1/2	1,518.73	1/2	1,875.13	1/2	2,231.21	1/2	2,587.77	1/2	2,944.08	1/2	3,299.98
3/4	111.90	3/4	469.10	3/4	825.84	3/4	1,169.68	3/4	1,526.17	3/4	1,882.54	3/4	2,238.64	3/4	2,595.20	3/4	2,951.50	3/4	3,307.38
4	119.33	4	476.54	4	833.21	4	1,176.91	4	1,533.60	4	1,889.96	4	2,246.07	4	2,602.62	4	2,958.92	4	3,314.77
1/4	126.78	1/4	483.97	1/4	840.37	1/4	1,184.34	1/4	1,541.03	1/4	1,897.37	1/4	2,253.49	1/4	2,610.04	1/4	2,966.35	1/4	3,322.17
1/2	134.23	1/2	491.41	1/2	847.54	1/2	1,191.77	1/2	1,548.46	1/2	1,904.79	1/2	2,260.92	1/2	2,617.47	1/2	2,973.77	1/2	3,329.56
3/4	141.67	3/4	498.84	3/4	854.70	3/4	1,199.20	3/4	1,555.89	3/4	1,912.20	3/4	2,268.35	3/4	2,624.89	3/4	2,981.19	3/4	3,336.96
5	149.12	5	506.28	5	861.86	5	1,206.63	5	1,563.32	5	1,919.62	5	2,275.78	5	2,632.32	5	2,988.62	5	3,344.35
1/4	156.57	1/4	513.72	1/4	869.00	1/4	1,214.06	1/4	1,570.75	1/4	1,927.03	1/4	2,283.21	1/4	2,639.74	1/4	2,996.04	1/4	3,351.74
1/2	164.01	1/2	521.15	1/2	876.14	1/2	1,221.49	1/2	1,578.18	1/2	1,934.45	1/2	2,290.64	1/2	2,647.16	1/2	3,003.46	1/2	3,359.13
3/4	171.46	3/4	528.59	3/4	883.28	3/4	1,228.93	3/4	1,585.61	3/4	1,941.86	3/4	2,298.08	3/4	2,654.58	3/4	3,010.88	3/4	3,366.52
6	178.91	6	536.02	6	890.42	6	1,236.36	6	1,593.04	6	1,949.28	6	2,305.51	6	2,662.01	6	3,018.31	6	3,373.91
1/4	186.36	1/4	543.46	1/4	897.56	1/4	1,243.79	1/4	1,600.48	1/4	1,956.69	1/4	2,312.94	1/4	2,669.43	1/4	3,025.73	1/4	3,381.29
1/2	193.81	1/2	550.90	1/2	904.70	1/2	1,251.22	1/2	1,607.91	1/2	1,964.11	1/2	2,320.38	1/2	2,676.85	1/2	3,033.15	1/2	3,388.67
3/4	201.25	3/4	558.33	3/4	911.84	3/4	1,258.65	3/4	1,615.34	3/4	1,971.52	3/4	2,327.81	3/4	2,684.28	3/4	3,040.58	3/4	3,396.06
7	208.70	7	565.77	7	918.98	7	1,266.08	7	1,622.77	7	1,978.93	7	2,335.24	7	2,691.70	7	3,048.00	7	3,403.44
1/4	216.15	1/4	573.20	1/4	926.12	1/4	1,273.51	1/4	1,630.20	1/4	1,986.35	1/4	2,342.68	1/4	2,699.12	1/4	3,055.42	1/4	3,410.59
1/2	223.60	1/2	580.64	1/2	933.26	1/2	1,280.94	1/2	1,637.63	1/2	1,993.76	1/2	2,350.11	1/2	2,706.55	1/2	3,062.84	1/2	3,417.75
3/4	231.04	3/4	588.08	3/4	940.40	3/4	1,288.37	3/4	1,645.06	3/4	2,001.18	3/4	2,357.54	3/4	2,713.97	3/4	3,070.27	3/4	3,424.90
8	238.49	8	595.51	8	947.54	8	1,295.80	8	1,652.49	8	2,008.59	8	2,364.98	8	2,721.39	8	3,077.69	8	3,432.05
1/4	245.94	1/4	602.95	1/4	954.68	1/4	1,303.24	1/4	1,659.92	1/4	2,016.01	1/4	2,372.41	1/4	2,728.81	1/4	3,085.11	1/4	3,438.73
1/2	253.39	1/2	610.38	1/2	961.82	1/2	1,310.67	1/2	1,667.35	1/2	2,023.42	1/2	2,379.84	1/2	2,736.24	1/2	3,092.54	1/2	3,445.41
3/4	260.83	3/4	617.82	3/4	968.96	3/4	1,318.10	3/4	1,674.79	3/4	2,030.84	3/4	2,387.27	3/4	2,743.66	3/4	3,099.96	3/4	3,452.08
9	268.28	9	625.26	9	976.10	9	1,325.53	9	1,682.22	9	2,038.25	9	2,394.71	9	2,751.08	9	3,107.38	9	3,458.76
1/4	275.73	1/4	632.69	1/4	983.23	1/4	1,332.96	1/4	1,689.65	1/4	2,045.66	1/4	2,402.14	1/4	2,758.51	1/4	3,114.80	1/4	3,464.96
1/2	283.18	1/2	640.13	1/2	990.37	1/2	1,340.39	1/2	1,697.08	1/2	2,053.07	1/2	2,409.57	1/2	2,765.93	1/2	3,122.23	1/2	3,471.16
3/4	290.62	3/4	647.56	3/4	997.51	3/4	1,347.82	3/4	1,704.51	3/4	2,060.48	3/4	2,417.01	3/4	2,773.35	3/4	3,129.65	3/4	3,477.36
10	298.07	10	655.00	10	1,004.65	10	1,355.25	10	1,711.94	10	2,067.88	10	2,424.44	10	2,780.77	10	3,137.07	10	3,483.56
1/4	305.51	1/4	662.44	1/4	1,011.79	1/4	1,362.68	1/4	1,719.37	1/4	2,075.29	1/4	2,431.87	1/4	2,788.20	1/4	3,144.50	1/4	3,489.29
1/2	312.94	1/2	669.87	1/2	1,018.93	1/2	1,370.11	1/2	1,726.80	1/2	2,082.70	1/2	2,439.29	1/2	2,795.62	1/2	3,151.92	1/2	3,495.02
3/4	320.38	3/4	677.31	3/4	1,026.07	3/4	1,377.55	3/4	1,734.23	3/4	2,090.11	3/4	2,446.71	3/4	2,803.04	3/4	3,159.34	3/4	3,500.75
11	327.82	11	684.74	11	1,033.21	11	1,384.98	11	1,741.66	11	2,097.51	11	2,454.14	11	2,810.47	11	3,166.77	11	3,506.48
1/4	335.25	1/4	692.18	1/4	1,040.35	1/4	1,392.41	1/4	1,749.08	1/4	2,104.94	1/4	2,461.56	1/4	2,817.89	1/4	3,174.19	1/4	3,511.74
1/2	342.69	1/2	699.62	1/2	1,047.49	1/2	1,399.84	1/2	1,756.49	1/2	2,112.37	1/2	2,468.99	1/2	2,825.31	1/2	3,181.61	1/2	3,516.99
3/4	350.12	3/4	707.05	3/4	1,054.63	3/4	1,407.27	3/4	1,763.91	3/4	2,119.80	3/4	2,476.41	3/4	2,832.73	3/4	3,189.03	3/4	3,522.24

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 LIP OF 2" HERMETIC VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD.

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



BARGE "E2MS 311"

3 PORT INNAGE TABLE HERMETIC GAUGE HEIGHT 15'-09 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,527.50	0	3,747.90	0	3,966.94	0	4,185.77	0	4,403.51	0		0		0		0		0	
1/4	3,532.31	1/4	3,752.47	1/4	3,971.49	1/4	4,190.33	1/4	4,407.98	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,537.12	1/2	3,757.04	1/2	3,976.05	1/2	4,194.89	1/2	4,412.45	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,541.93	3/4	3,761.61	3/4	3,980.61	3/4	4,199.45	3/4	4,416.92	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	3,546.74	1	3,766.18	1	3,985.17	1	4,204.01	1	4,421.39	1		1		1		1		1	
1/4	3,551.31	1/4	3,770.76	1/4	3,989.73	1/4	4,208.57	1/4	4,425.34	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,555.89	1/2	3,775.33	1/2	3,994.29	1/2	4,213.13	1/2	4,429.28	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,560.46	3/4	3,779.90	3/4	3,998.85	3/4	4,217.69	3/4	4,433.22	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	3,565.03	2	3,784.47	2	4,003.41	2	4,222.25	2	4,437.17	2		2		2		2		2	
1/4	3,569.60	1/4	3,789.04	1/4	4,007.97	1/4	4,226.80	1/4	4,440.35	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,574.17	1/2	3,793.61	1/2	4,012.53	1/2	4,231.36	1/2	4,443.53	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,578.74	3/4	3,798.19	3/4	4,017.09	3/4	4,235.92	3/4	4,446.71	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	3,583.32	3	3,802.76	3	4,021.64	3	4,240.48	3	4,449.89	3		3		3		3		3	
1/4	3,587.89	1/4	3,807.33	1/4	4,026.20	1/4	4,245.04	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,592.46	1/2	3,811.90	1/2	4,030.76	1/2	4,249.60	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,597.03	3/4	3,816.47	3/4	4,035.32	3/4	4,254.16	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	3,601.60	4	3,821.04	4	4,039.88	4	4,258.72	4		4		4		4		4		4	
1/4	3,606.17	1/4	3,825.60	1/4	4,044.44	1/4	4,263.28	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,610.75	1/2	3,830.16	1/2	4,049.00	1/2	4,267.84	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,615.32	3/4	3,834.72	3/4	4,053.56	3/4	4,272.40	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	3,619.89	5	3,839.28	5	4,058.12	5	4,276.95	5		5		5		5		5		5	
1/4	3,624.46	1/4	3,843.84	1/4	4,062.68	1/4	4,281.51	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,629.03	1/2	3,848.40	1/2	4,067.24	1/2	4,286.07	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,633.60	3/4	3,852.96	3/4	4,071.79	3/4	4,290.63	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	3,638.18	6	3,857.52	6	4,076.35	6	4,295.19	6		6		6		6		6		6	
1/4	3,642.75	1/4	3,862.08	1/4	4,080.91	1/4	4,299.70	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,647.32	1/2	3,866.64	1/2	4,085.47	1/2	4,304.22	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,651.89	3/4	3,871.19	3/4	4,090.03	3/4	4,308.73	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	3,656.46	7	3,875.75	7	4,094.59	7	4,313.25	7		7		7		7		7		7	
1/4	3,661.03	1/4	3,880.31	1/4	4,099.15	1/4	4,317.76	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,665.61	1/2	3,884.87	1/2	4,103.71	1/2	4,322.27	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,670.18	3/4	3,889.43	3/4	4,108.27	3/4	4,326.79	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	3,674.75	8	3,893.99	8	4,112.83	8	4,331.30	8		8		8		8		8		8	
1/4	3,679.32	1/4	3,898.55	1/4	4,117.39	1/4	4,335.82	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,683.89	1/2	3,903.11	1/2	4,121.94	1/2	4,340.33	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,688.46	3/4	3,907.67	3/4	4,126.50	3/4	4,344.84	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	3,693.04	9	3,912.23	9	4,131.06	9	4,349.36	9		9		9		9		9		9	
1/4	3,697.61	1/4	3,916.79	1/4	4,135.62	1/4	4,353.87	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,702.18	1/2	3,921.34	1/2	4,140.18	1/2	4,358.39	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,706.75	3/4	3,925.90	3/4	4,144.74	3/4	4,362.90	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	3,711.32	10	3,930.46	10	4,149.30	10	4,367.42	10		10		10		10		10		10	
1/4	3,715.90	1/4	3,935.02	1/4	4,153.86	1/4	4,371.93	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,720.47	1/2	3,939.58	1/2	4,158.42	1/2	4,376.45	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,725.04	3/4	3,944.14	3/4	4,162.98	3/4	4,380.96	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	3,729.61	11	3,948.70	11	4,167.54	11	4,385.48	11		11		11		11		11		11	
1/4	3,734.18	1/4	3,953.26	1/4	4,172.09	1/4	4,389.99	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,738.75	1/2	3,957.82	1/2	4,176.65	1/2	4,394.49	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,743.33	3/4	3,962.38	3/4	4,181.21	3/4	4,399.00	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

STRAPPED: 07/18/2018 CL
CALCULATED: 07/19/2018 CL
PRINTED: 07/20/2018 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2018

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "E2MS 311"

3 STBD

INNAGE TABLE

HERMETIC

GAUGE HEIGHT 15'-08 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	15.28	0	358.02	0	715.88	0	1,073.34	0	1,431.10	0	1,788.97	0	2,146.84	0	2,504.63	0	2,862.02	0	3,219.40
1/4	19.94	1/4	365.48	1/4	723.34	1/4	1,080.78	1/4	1,438.56	1/4	1,796.43	1/4	2,154.29	1/4	2,512.08	1/4	2,869.47	1/4	3,226.81
1/2	24.59	1/2	372.94	1/2	730.79	1/2	1,088.22	1/2	1,446.01	1/2	1,803.88	1/2	2,161.75	1/2	2,519.52	1/2	2,876.91	1/2	3,234.23
3/4	29.25	3/4	380.39	3/4	738.25	3/4	1,095.66	3/4	1,453.47	3/4	1,811.34	3/4	2,169.21	3/4	2,526.97	3/4	2,884.36	3/4	3,241.65
1	33.91	1	387.85	1	745.71	1	1,103.10	1	1,460.92	1	1,818.79	1	2,176.66	1	2,534.42	1	2,891.80	1	3,249.06
1/4	40.44	1/4	395.30	1/4	753.16	1/4	1,110.55	1/4	1,468.38	1/4	1,826.25	1/4	2,184.12	1/4	2,541.86	1/4	2,899.25	1/4	3,256.48
1/2	46.96	1/2	402.76	1/2	760.62	1/2	1,118.00	1/2	1,475.83	1/2	1,833.70	1/2	2,191.57	1/2	2,549.31	1/2	2,906.69	1/2	3,263.90
3/4	53.48	3/4	410.21	3/4	768.07	3/4	1,125.45	3/4	1,483.29	3/4	1,841.16	3/4	2,199.03	3/4	2,556.75	3/4	2,914.14	3/4	3,271.31
2	60.00	2	417.67	2	775.53	2	1,132.90	2	1,490.75	2	1,848.61	2	2,206.48	2	2,564.20	2	2,921.58	2	3,278.73
1/4	67.42	1/4	425.12	1/4	782.98	1/4	1,140.35	1/4	1,498.20	1/4	1,856.07	1/4	2,213.94	1/4	2,571.65	1/4	2,929.03	1/4	3,286.15
1/2	74.84	1/2	432.58	1/2	790.44	1/2	1,147.80	1/2	1,505.66	1/2	1,863.53	1/2	2,221.39	1/2	2,579.09	1/2	2,936.47	1/2	3,293.56
3/4	82.26	3/4	440.03	3/4	797.89	3/4	1,155.25	3/4	1,513.11	3/4	1,870.98	3/4	2,228.85	3/4	2,586.54	3/4	2,943.92	3/4	3,300.98
3	89.68	3	447.49	3	805.35	3	1,162.70	3	1,520.57	3	1,878.44	3	2,236.31	3	2,593.98	3	2,951.37	3	3,308.40
1/4	97.12	1/4	454.94	1/4	812.80	1/4	1,170.16	1/4	1,528.02	1/4	1,885.89	1/4	2,243.76	1/4	2,601.43	1/4	2,958.81	1/4	3,315.81
1/2	104.57	1/2	462.40	1/2	820.26	1/2	1,177.61	1/2	1,535.48	1/2	1,893.35	1/2	2,251.22	1/2	2,608.88	1/2	2,966.26	1/2	3,323.23
3/4	112.01	3/4	469.86	3/4	827.71	3/4	1,185.07	3/4	1,542.94	3/4	1,900.80	3/4	2,258.67	3/4	2,616.32	3/4	2,973.70	3/4	3,330.65
4	119.46	4	477.31	4	835.17	4	1,192.52	4	1,550.39	4	1,908.26	4	2,266.13	4	2,623.77	4	2,981.15	4	3,338.06
1/4	126.91	1/4	484.77	1/4	842.63	1/4	1,199.98	1/4	1,557.85	1/4	1,915.72	1/4	2,273.58	1/4	2,631.22	1/4	2,988.59	1/4	3,345.48
1/2	134.37	1/2	492.22	1/2	850.08	1/2	1,207.43	1/2	1,565.30	1/2	1,923.17	1/2	2,281.04	1/2	2,638.66	1/2	2,996.04	1/2	3,352.90
3/4	141.82	3/4	499.68	3/4	857.54	3/4	1,214.89	3/4	1,572.76	3/4	1,930.63	3/4	2,288.50	3/4	2,646.11	3/4	3,003.48	3/4	3,360.31
5	149.27	5	507.13	5	864.99	5	1,222.34	5	1,580.21	5	1,938.08	5	2,295.95	5	2,653.55	5	3,010.93	5	3,367.73
1/4	156.73	1/4	514.59	1/4	872.43	1/4	1,229.80	1/4	1,587.67	1/4	1,945.54	1/4	2,303.41	1/4	2,661.00	1/4	3,018.37	1/4	3,375.14
1/2	164.18	1/2	522.04	1/2	879.87	1/2	1,237.26	1/2	1,595.12	1/2	1,952.99	1/2	2,310.86	1/2	2,668.44	1/2	3,025.82	1/2	3,382.55
3/4	171.64	3/4	529.50	3/4	887.31	3/4	1,244.71	3/4	1,602.58	3/4	1,960.45	3/4	2,318.32	3/4	2,675.89	3/4	3,033.26	3/4	3,389.97
6	179.09	6	536.95	6	894.76	6	1,252.17	6	1,610.04	6	1,967.90	6	2,325.77	6	2,683.33	6	3,040.71	6	3,397.38
1/4	186.55	1/4	544.41	1/4	902.20	1/4	1,259.62	1/4	1,617.49	1/4	1,975.36	1/4	2,333.23	1/4	2,690.78	1/4	3,048.15	1/4	3,404.78
1/2	194.01	1/2	551.86	1/2	909.64	1/2	1,267.08	1/2	1,624.95	1/2	1,982.82	1/2	2,340.68	1/2	2,698.23	1/2	3,055.60	1/2	3,412.19
3/4	201.46	3/4	559.32	3/4	917.08	3/4	1,274.53	3/4	1,632.40	3/4	1,990.27	3/4	2,348.14	3/4	2,705.67	3/4	3,063.04	3/4	3,419.59
7	208.92	7	566.78	7	924.52	7	1,281.99	7	1,639.86	7	1,997.73	7	2,355.60	7	2,713.12	7	3,070.49	7	3,426.99
1/4	216.37	1/4	574.23	1/4	931.96	1/4	1,289.44	1/4	1,647.31	1/4	2,005.18	1/4	2,363.05	1/4	2,720.56	1/4	3,077.94	1/4	3,434.17
1/2	223.83	1/2	581.69	1/2	939.40	1/2	1,296.90	1/2	1,654.77	1/2	2,012.64	1/2	2,370.51	1/2	2,728.01	1/2	3,085.38	1/2	3,441.35
3/4	231.28	3/4	589.14	3/4	946.84	3/4	1,304.36	3/4	1,662.22	3/4	2,020.09	3/4	2,377.96	3/4	2,735.45	3/4	3,092.83	3/4	3,448.52
8	238.74	8	596.60	8	954.28	8	1,311.81	8	1,669.68	8	2,027.55	8	2,385.42	8	2,742.90	8	3,100.27	8	3,455.70
1/4	246.19	1/4	604.05	1/4	961.72	1/4	1,319.27	1/4	1,677.14	1/4	2,035.00	1/4	2,392.87	1/4	2,750.34	1/4	3,107.72	1/4	3,462.40
1/2	253.65	1/2	611.51	1/2	969.16	1/2	1,326.72	1/2	1,684.59	1/2	2,042.46	1/2	2,400.33	1/2	2,757.79	1/2	3,115.16	1/2	3,469.09
3/4	261.10	3/4	618.96	3/4	976.60	3/4	1,334.18	3/4	1,692.05	3/4	2,049.92	3/4	2,407.78	3/4	2,765.23	3/4	3,122.61	3/4	3,475.79
9	268.56	9	626.42	9	984.05	9	1,341.63	9	1,699.50	9	2,057.37	9	2,415.24	9	2,772.68	9	3,130.05	9	3,482.49
1/4	276.01	1/4	633.87	1/4	991.49	1/4	1,349.09	1/4	1,706.96	1/4	2,064.83	1/4	2,422.70	1/4	2,780.12	1/4	3,137.50	1/4	3,488.71
1/2	283.47	1/2	641.33	1/2	998.93	1/2	1,356.55	1/2	1,714.41	1/2	2,072.28	1/2	2,430.15	1/2	2,787.57	1/2	3,144.94	1/2	3,494.92
3/4	290.93	3/4	648.78	3/4	1,006.37	3/4	1,364.00	3/4	1,721.87	3/4	2,079.74	3/4	2,437.61	3/4	2,795.01	3/4	3,152.39	3/4	3,501.14
10	298.38	10	656.24	10	1,013.81	10	1,371.46	10	1,729.33	10	2,087.19	10	2,445.06	10	2,802.46	10	3,159.83	10	3,507.36
1/4	305.84	1/4	663.70	1/4	1,021.25	1/4	1,378.91	1/4	1,736.78	1/4	2,094.65	1/4	2,452.51	1/4	2,809.90	1/4	3,167.28	1/4	3,513.10
1/2	313.29	1/2	671.15	1/2	1,028.69	1/2	1,386.37	1/2	1,744.24	1/2	2,102.11	1/2	2,459.95	1/2	2,817.35	1/2	3,174.72	1/2	3,518.84
3/4	320.75	3/4	678.61	3/4	1,036.13	3/4	1,393.82	3/4	1,751.69	3/4	2,109.56	3/4	2,467.40	3/4	2,824.80	3/4	3,182.17	3/4	3,524.58
11	328.20	11	686.06	11	1,043.57	11	1,401.28	11	1,759.15	11	2,117.02	11	2,474.85	11	2,832.24	11	3,189.61	11	3,530.32
1/4	335.66	1/4	693.52	1/4	1,051.01	1/4	1,408.73	1/4	1,766.60	1/4	2,124.47	1/4	2,482.29	1/4	2,839.69	1/4	3,197.06	1/4	3,535.57
1/2	343.11	1/2	700.97	1/2	1,058.45	1/2	1,416.19	1/2	1,774.06	1/2	2,131.93	1/2	2,489.74	1/2	2,847.13	1/2	3,204.51	1/2	3,540.83
3/4	350.57	3/4	708.43	3/4	1,065.90	3/4	1,423.65	3/4	1,781.51	3/4	2,139.38	3/4	2,497.19	3/4	2,854.58	3/4	3,211.95	3/4	3,546.09

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 LIP OF 2" HERMETIC VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD.

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



BARGE "E2MS 311"

3 STBD

INNAGE TABLE

HERMETIC

GAUGE HEIGHT 15'-08 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,551.35	0	3,772.01	0	3,991.31	0	4,210.41	0	4,428.39	0		0		0		0		0	
1/4	3,556.17	1/4	3,776.59	1/4	3,995.88	1/4	4,214.98	1/4	4,432.87	1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,560.98	1/2	3,781.17	1/2	4,000.44	1/2	4,219.54	1/2	4,437.35	1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,565.80	3/4	3,785.74	3/4	4,005.01	3/4	4,224.11	3/4	4,441.82	3/4		3/4	3/4	3/4	3/4		3/4	3/4	
1	3,570.62	1	3,790.32	1	4,009.57	1	4,228.67	1	4,446.30	1		1		1		1		1	
1/4	3,575.20	1/4	3,794.90	1/4	4,014.14	1/4	4,233.24	1/4	4,450.25	1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,579.77	1/2	3,799.47	1/2	4,018.70	1/2	4,237.80	1/2	4,454.20	1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,584.35	3/4	3,804.05	3/4	4,023.26	3/4	4,242.37	3/4	4,458.15	3/4		3/4	3/4	3/4	3/4		3/4	3/4	
2	3,588.93	2	3,808.63	2	4,027.83	2	4,246.93	2	4,462.09	2		2		2		2		2	
1/4	3,593.50	1/4	3,813.21	1/4	4,032.39	1/4	4,251.49	1/4	4,465.28	1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,598.08	1/2	3,817.78	1/2	4,036.96	1/2	4,256.06	1/2	4,468.46	1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,602.66	3/4	3,822.36	3/4	4,041.52	3/4	4,260.62	3/4	4,471.65	3/4		3/4	3/4	3/4	3/4		3/4	3/4	
3	3,607.24	3	3,826.94	3	4,046.09	3	4,265.19	3	4,474.83	3		3		3		3		3	
1/4	3,611.81	1/4	3,831.51	1/4	4,050.65	1/4	4,269.75	1/4		1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,616.39	1/2	3,836.09	1/2	4,055.22	1/2	4,274.32	1/2		1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,620.97	3/4	3,840.67	3/4	4,059.78	3/4	4,278.88	3/4		3/4		3/4	3/4	3/4	3/4		3/4	3/4	
4	3,625.54	4	3,845.24	4	4,064.35	4	4,283.45	4		4		4		4		4		4	
1/4	3,630.12	1/4	3,849.81	1/4	4,068.91	1/4	4,288.01	1/4		1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,634.70	1/2	3,854.37	1/2	4,073.47	1/2	4,292.58	1/2		1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,639.28	3/4	3,858.94	3/4	4,078.04	3/4	4,297.14	3/4		3/4		3/4	3/4	3/4	3/4		3/4	3/4	
5	3,643.85	5	3,863.50	5	4,082.60	5	4,301.70	5		5		5		5		5		5	
1/4	3,648.43	1/4	3,868.07	1/4	4,087.17	1/4	4,306.27	1/4		1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,653.01	1/2	3,872.63	1/2	4,091.73	1/2	4,310.83	1/2		1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,657.58	3/4	3,877.20	3/4	4,096.30	3/4	4,315.40	3/4		3/4		3/4	3/4	3/4	3/4		3/4	3/4	
6	3,662.16	6	3,881.76	6	4,100.86	6	4,319.96	6		6		6		6		6		6	
1/4	3,666.74	1/4	3,886.33	1/4	4,105.43	1/4	4,324.48	1/4		1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,671.32	1/2	3,890.89	1/2	4,109.99	1/2	4,329.00	1/2		1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,675.89	3/4	3,895.46	3/4	4,114.56	3/4	4,333.52	3/4		3/4		3/4	3/4	3/4	3/4		3/4	3/4	
7	3,680.47	7	3,900.02	7	4,119.12	7	4,338.04	7		7		7		7		7		7	
1/4	3,685.05	1/4	3,904.58	1/4	4,123.69	1/4	4,342.56	1/4		1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,689.62	1/2	3,909.15	1/2	4,128.25	1/2	4,347.08	1/2		1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,694.20	3/4	3,913.71	3/4	4,132.81	3/4	4,351.59	3/4		3/4		3/4	3/4	3/4	3/4		3/4	3/4	
8	3,698.78	8	3,918.28	8	4,137.38	8	4,356.11	8		8		8		8		8		8	
1/4	3,703.35	1/4	3,922.84	1/4	4,141.94	1/4	4,360.63	1/4		1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,707.93	1/2	3,927.41	1/2	4,146.51	1/2	4,365.15	1/2		1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,712.51	3/4	3,931.97	3/4	4,151.07	3/4	4,369.67	3/4		3/4		3/4	3/4	3/4	3/4		3/4	3/4	
9	3,717.09	9	3,936.54	9	4,155.64	9	4,374.19	9		9		9		9		9		9	
1/4	3,721.66	1/4	3,941.10	1/4	4,160.20	1/4	4,378.71	1/4		1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,726.24	1/2	3,945.67	1/2	4,164.77	1/2	4,383.23	1/2		1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,730.82	3/4	3,950.23	3/4	4,169.33	3/4	4,387.75	3/4		3/4		3/4	3/4	3/4	3/4		3/4	3/4	
10	3,735.39	10	3,954.80	10	4,173.90	10	4,392.27	10		10		10		10		10		10	
1/4	3,739.97	1/4	3,959.36	1/4	4,178.46	1/4	4,396.79	1/4		1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,744.55	1/2	3,963.92	1/2	4,183.03	1/2	4,401.31	1/2		1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,749.13	3/4	3,968.49	3/4	4,187.59	3/4	4,405.83	3/4		3/4		3/4	3/4	3/4	3/4		3/4	3/4	
11	3,753.70	11	3,973.05	11	4,192.15	11	4,410.34	11		11		11		11		11		11	
1/4	3,758.28	1/4	3,977.62	1/4	4,196.72	1/4	4,414.86	1/4		1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,762.86	1/2	3,982.18	1/2	4,201.28	1/2	4,419.37	1/2		1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,767.43	3/4	3,986.75	3/4	4,205.85	3/4	4,423.88	3/4		3/4		3/4	3/4	3/4	3/4		3/4	3/4	

STRAPPED: 07/18/2018 CL
 CALCULATED: 07/19/2018 CL
 PRINTED: 07/20/2018 SW

CANCELS AND SUPERCEDES
 ALL PRIOR TO 07/2018

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "E2MS 311"

ULLAGE (HERMETIC)

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 2'-00"
 AFT DRAFT = 6'-00"
 DIFF. = 4'-00" (DOWN BY STERN)

THE CORRECTION FOR 4'-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: 235'-09"

July 18, 2018

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

<http://www.pmacorp.net>



BARGE "E2MS 311"

1 PORT ULLAGE TABLE

HERMETIC GAUGE HEIGHT 15'-09"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	4,850.17	0	4,494.39	0	4,137.74	0	3,780.47	0	3,422.77	0	3,065.06	0	2,707.35	0	2,349.58
1/4		1/4		1/4	4,842.81	1/4	4,486.96	1/4	4,130.31	1/4	3,773.02	1/4	3,415.31	1/4	3,057.61	1/4	2,699.90	1/4	2,342.13
1/2		1/2		1/2	4,835.45	1/2	4,479.53	1/2	4,122.88	1/2	3,765.57	1/2	3,407.86	1/2	3,050.16	1/2	2,692.45	1/2	2,334.68
3/4		3/4		3/4	4,828.10	3/4	4,472.10	3/4	4,115.45	3/4	3,758.11	3/4	3,400.41	3/4	3,042.70	3/4	2,685.00	3/4	2,327.22
1		1		1	4,820.74	1	4,464.67	1	4,108.02	1	3,750.66	1	3,392.96	1	3,035.25	1	2,677.55	1	2,319.77
1/4		1/4		1/4	4,813.38	1/4	4,457.24	1/4	4,100.59	1/4	3,743.21	1/4	3,385.50	1/4	3,027.80	1/4	2,670.09	1/4	2,312.31
1/2		1/2		1/2	4,806.03	1/2	4,449.81	1/2	4,093.16	1/2	3,735.76	1/2	3,378.05	1/2	3,020.35	1/2	2,662.64	1/2	2,304.86
3/4		3/4		3/4	4,798.67	3/4	4,442.38	3/4	4,085.73	3/4	3,728.31	3/4	3,370.60	3/4	3,012.89	3/4	2,655.19	3/4	2,297.41
2		2		2	4,791.31	2	4,434.95	2	4,078.30	2	3,720.85	2	3,363.15	2	3,005.44	2	2,647.74	2	2,289.95
1/4		1/4		1/4	4,783.96	1/4	4,427.52	1/4	4,070.87	1/4	3,713.40	1/4	3,355.70	1/4	2,997.99	1/4	2,640.28	1/4	2,282.50
1/2		1/2		1/2	4,776.60	1/2	4,420.09	1/2	4,063.44	1/2	3,705.95	1/2	3,348.24	1/2	2,990.54	1/2	2,632.83	1/2	2,275.04
3/4		3/4		3/4	4,769.24	3/4	4,412.66	3/4	4,056.01	3/4	3,698.50	3/4	3,340.79	3/4	2,983.09	3/4	2,625.38	3/4	2,267.59
3		3		3	4,761.88	3	4,405.23	3	4,048.58	3	3,691.04	3	3,333.34	3	2,975.63	3	2,617.93	3	2,260.13
1/4		1/4		1/4	4,754.45	1/4	4,397.80	1/4	4,041.14	1/4	3,683.59	1/4	3,325.89	1/4	2,968.18	1/4	2,610.48	1/4	2,252.68
1/2		1/2		1/2	4,747.02	1/2	4,390.37	1/2	4,033.71	1/2	3,676.14	1/2	3,318.43	1/2	2,960.73	1/2	2,603.02	1/2	2,245.23
3/4		3/4		3/4	4,739.59	3/4	4,382.94	3/4	4,026.28	3/4	3,668.69	3/4	3,310.98	3/4	2,953.28	3/4	2,595.57	3/4	2,237.77
4		4		4	4,732.16	4	4,375.51	4	4,018.85	4	3,661.24	4	3,303.53	4	2,945.82	4	2,588.12	4	2,230.32
1/4		1/4		1/4	4,724.73	1/4	4,368.08	1/4	4,011.42	1/4	3,653.78	1/4	3,296.08	1/4	2,938.37	1/4	2,580.66	1/4	2,222.86
1/2		1/2		1/2	4,717.30	1/2	4,360.65	1/2	4,003.99	1/2	3,646.33	1/2	3,288.63	1/2	2,930.92	1/2	2,573.21	1/2	2,215.41
3/4		3/4		3/4	4,709.87	3/4	4,353.22	3/4	3,996.56	3/4	3,638.88	3/4	3,281.17	3/4	2,923.47	3/4	2,565.76	3/4	2,207.95
5		5		5	4,702.44	5	4,345.79	5	3,989.13	5	3,631.43	5	3,273.72	5	2,916.02	5	2,558.30	5	2,200.50
1/4		1/4		1/4	4,695.01	1/4	4,338.36	1/4	3,981.68	1/4	3,623.97	1/4	3,266.27	1/4	2,908.56	1/4	2,550.85	1/4	2,193.05
1/2		1/2		1/2	4,687.58	1/2	4,330.93	1/2	3,974.23	1/2	3,616.52	1/2	3,258.82	1/2	2,901.11	1/2	2,543.39	1/2	2,185.59
3/4		3/4		3/4	4,680.15	3/4	4,323.50	3/4	3,966.78	3/4	3,609.07	3/4	3,251.36	3/4	2,893.66	3/4	2,535.94	3/4	2,178.14
6		6	5,014.00	6	4,672.72	6	4,316.07	6	3,959.32	6	3,601.62	6	3,243.91	6	2,886.21	6	2,528.49	6	2,170.68
1/4		1/4	5,008.82	1/4	4,665.29	1/4	4,308.64	1/4	3,951.87	1/4	3,594.17	1/4	3,236.46	1/4	2,878.75	1/4	2,521.03	1/4	2,163.23
1/2		1/2	5,003.63	1/2	4,657.86	1/2	4,301.21	1/2	3,944.42	1/2	3,586.71	1/2	3,229.01	1/2	2,871.30	1/2	2,513.58	1/2	2,155.78
3/4		3/4	4,998.45	3/4	4,650.43	3/4	4,293.78	3/4	3,936.97	3/4	3,579.26	3/4	3,221.56	3/4	2,863.85	3/4	2,506.12	3/4	2,148.32
7		7	4,993.26	7	4,643.00	7	4,286.34	7	3,929.52	7	3,571.81	7	3,214.10	7	2,856.40	7	2,498.67	7	2,140.87
1/4		1/4	4,986.83	1/4	4,635.57	1/4	4,278.91	1/4	3,922.06	1/4	3,564.36	1/4	3,206.65	1/4	2,848.95	1/4	2,491.21	1/4	2,133.41
1/2		1/2	4,980.41	1/2	4,628.14	1/2	4,271.48	1/2	3,914.61	1/2	3,556.91	1/2	3,199.20	1/2	2,841.49	1/2	2,483.76	1/2	2,125.96
3/4		3/4	4,973.98	3/4	4,620.71	3/4	4,264.05	3/4	3,907.16	3/4	3,549.45	3/4	3,191.75	3/4	2,834.04	3/4	2,476.31	3/4	2,118.50
8		8	4,967.55	8	4,613.28	8	4,256.62	8	3,899.71	8	3,542.00	8	3,184.30	8	2,826.59	8	2,468.85	8	2,111.05
1/4		1/4	4,960.27	1/4	4,605.85	1/4	4,249.19	1/4	3,892.25	1/4	3,534.55	1/4	3,176.84	1/4	2,819.14	1/4	2,461.40	1/4	2,103.60
1/2		1/2	4,952.98	1/2	4,598.42	1/2	4,241.76	1/2	3,884.80	1/2	3,527.10	1/2	3,169.39	1/2	2,811.69	1/2	2,453.94	1/2	2,096.14
3/4		3/4	4,945.69	3/4	4,590.99	3/4	4,234.33	3/4	3,877.35	3/4	3,519.64	3/4	3,161.94	3/4	2,804.23	3/4	2,446.49	3/4	2,088.69
9		9	4,938.40	9	4,583.56	9	4,226.90	9	3,869.90	9	3,512.19	9	3,154.49	9	2,796.78	9	2,439.04	9	2,081.23
1/4		1/4	4,931.06	1/4	4,576.13	1/4	4,219.47	1/4	3,862.45	1/4	3,504.74	1/4	3,147.03	1/4	2,789.33	1/4	2,431.58	1/4	2,073.78
1/2		1/2	4,923.71	1/2	4,568.70	1/2	4,212.04	1/2	3,854.99	1/2	3,497.29	1/2	3,139.58	1/2	2,781.88	1/2	2,424.13	1/2	2,066.33
3/4		3/4	4,916.37	3/4	4,561.27	3/4	4,204.61	3/4	3,847.54	3/4	3,489.84	3/4	3,132.13	3/4	2,774.42	3/4	2,416.67	3/4	2,058.87
10		10	4,909.02	10	4,553.84	10	4,197.18	10	3,840.09	10	3,482.38	10	3,124.68	10	2,766.97	10	2,409.22	10	2,051.42
1/4		1/4	4,901.67	1/4	4,546.41	1/4	4,189.75	1/4	3,832.64	1/4	3,474.93	1/4	3,117.23	1/4	2,759.52	1/4	2,401.76	1/4	2,043.96
1/2		1/2	4,894.31	1/2	4,538.98	1/2	4,182.32	1/2	3,825.18	1/2	3,467.48	1/2	3,109.77	1/2	2,752.07	1/2	2,394.31	1/2	2,036.51
3/4		3/4	4,886.96	3/4	4,531.54	3/4	4,174.89	3/4	3,817.73	3/4	3,460.03	3/4	3,102.32	3/4	2,744.62	3/4	2,386.86	3/4	2,029.05
11		11	4,879.60	11	4,524.11	11	4,167.46	11	3,810.28	11	3,452.57	11	3,094.87	11	2,737.16	11	2,379.40	11	2,021.60
1/4		1/4	4,872.24	1/4	4,516.68	1/4	4,160.03	1/4	3,802.83	1/4	3,445.12	1/4	3,087.42	1/4	2,729.71	1/4	2,371.95	1/4	2,014.15
1/2		1/2	4,864.89	1/2	4,509.25	1/2	4,152.60	1/2	3,795.38	1/2	3,437.67	1/2	3,079.96	1/2	2,722.26	1/2	2,364.49	1/2	2,006.69
3/4		3/4	4,857.53	3/4	4,501.82	3/4	4,145.17	3/4	3,787.92	3/4	3,430.22	3/4	3,072.51	3/4	2,714.81	3/4	2,357.04	3/4	1,999.24

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 LIP OF 2" HERMETIC VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77588
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BARGE "E2MS 311"

1 PORT ULLAGE TABLE HERMETIC GAUGE HEIGHT 15'-09"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	1,991.78	0	1,633.98	0	1,276.18	0	919.77	0	563.14	0	222.86	0	0	0	0	0	0	0	0
1/4	1,984.33	1/4	1,626.53	1/4	1,268.73	1/4	912.38	1/4	555.69	1/4	216.32	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,976.87	1/2	1,619.07	1/2	1,261.27	1/2	904.98	1/2	548.24	1/2	209.79	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,969.42	3/4	1,611.62	3/4	1,253.82	3/4	897.59	3/4	540.79	3/4	203.25	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1,961.97	1	1,604.16	1	1,246.36	1	890.19	1	533.35	1	196.71	1	1	1	1	1	1	1	1
1/4	1,954.51	1/4	1,596.71	1/4	1,238.91	1/4	882.80	1/4	525.89	1/4	190.27	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,947.06	1/2	1,589.26	1/2	1,231.45	1/2	875.40	1/2	518.44	1/2	183.82	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,939.60	3/4	1,581.80	3/4	1,224.00	3/4	868.00	3/4	510.98	3/4	177.37	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,932.15	2	1,574.35	2	1,216.55	2	860.61	2	503.53	2	170.92	2	2	2	2	2	2	2	2
1/4	1,924.70	1/4	1,566.89	1/4	1,209.09	1/4	853.21	1/4	496.12	1/4	164.56	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,917.24	1/2	1,559.44	1/2	1,201.64	1/2	845.82	1/2	488.71	1/2	158.20	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,909.79	3/4	1,551.99	3/4	1,194.18	3/4	838.42	3/4	481.30	3/4	151.84	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,902.33	3	1,544.53	3	1,186.73	3	831.03	3	473.89	3	145.48	3	3	3	3	3	3	3	3
1/4	1,894.88	1/4	1,537.08	1/4	1,179.28	1/4	823.63	1/4	466.57	1/4	139.20	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,887.42	1/2	1,529.62	1/2	1,171.82	1/2	816.24	1/2	459.24	1/2	132.93	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,879.97	3/4	1,522.17	3/4	1,164.37	3/4	808.84	3/4	451.92	3/4	126.66	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,872.52	4	1,514.71	4	1,156.91	4	801.45	4	444.60	4	120.38	4	4	4	4	4	4	4	4
1/4	1,865.06	1/4	1,507.26	1/4	1,149.46	1/4	794.04	1/4	437.36	1/4	114.20	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,857.61	1/2	1,499.81	1/2	1,142.00	1/2	786.64	1/2	430.13	1/2	108.01	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,850.15	3/4	1,492.35	3/4	1,134.55	3/4	779.24	3/4	422.89	3/4	101.83	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,842.70	5	1,484.90	5	1,127.10	5	771.83	5	415.65	5	95.64	5	5	5	5	5	5	5	5
1/4	1,835.24	1/4	1,477.44	1/4	1,119.67	1/4	764.38	1/4	408.51	1/4	89.56	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,827.79	1/2	1,469.99	1/2	1,112.25	1/2	756.92	1/2	401.36	1/2	83.47	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,820.34	3/4	1,462.53	3/4	1,104.83	3/4	749.47	3/4	394.21	3/4	77.38	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,812.88	6	1,455.08	6	1,097.40	6	742.02	6	387.06	6	71.29	6	6	6	6	6	6	6	6
1/4	1,805.43	1/4	1,447.63	1/4	1,089.98	1/4	734.56	1/4	380.00	1/4	65.32	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,797.97	1/2	1,440.17	1/2	1,082.56	1/2	727.11	1/2	372.94	1/2	59.34	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,790.52	3/4	1,432.72	3/4	1,075.14	3/4	719.65	3/4	365.88	3/4	53.37	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,783.07	7	1,425.26	7	1,067.71	7	712.20	7	358.82	7	47.39	7	7	7	7	7	7	7	7
1/4	1,775.61	1/4	1,417.81	1/4	1,060.31	1/4	704.75	1/4	351.85	1/4	42.40	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,768.16	1/2	1,410.36	1/2	1,052.90	1/2	697.29	1/2	344.87	1/2	37.41	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,760.70	3/4	1,402.90	3/4	1,045.50	3/4	689.84	3/4	337.90	3/4	32.42	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,753.25	8	1,395.45	8	1,038.10	8	682.38	8	330.93	8	27.43	8	8	8	8	8	8	8	8
1/4	1,745.79	1/4	1,387.99	1/4	1,030.70	1/4	674.93	1/4	324.04	1/4	24.39	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,738.34	1/2	1,380.54	1/2	1,023.31	1/2	667.48	1/2	317.16	1/2	21.35	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,730.89	3/4	1,373.08	3/4	1,015.91	3/4	660.02	3/4	310.27	3/4	18.31	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,723.43	9	1,365.63	9	1,008.52	9	652.57	9	303.39	9	15.27	9	9	9	9	9	9	9	9
1/4	1,715.98	1/4	1,358.18	1/4	1,001.12	1/4	645.11	1/4	296.59	1/4	11.22	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,708.52	1/2	1,350.72	1/2	993.72	1/2	637.66	1/2	289.79	1/2	8.17	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,701.07	3/4	1,343.27	3/4	986.33	3/4	630.21	3/4	282.99	3/4	5.12	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,693.62	10	1,335.81	10	978.93	10	622.75	10	276.19	10	2.07	10	10	10	10	10	10	10	10
1/4	1,686.16	1/4	1,328.36	1/4	971.54	1/4	615.30	1/4	269.48	1/4	1.02	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,678.71	1/2	1,320.91	1/2	964.14	1/2	607.84	1/2	262.77	1/2	0.00	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,671.25	3/4	1,313.45	3/4	956.75	3/4	600.39	3/4	256.06	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,663.80	11	1,306.00	11	949.35	11	592.94	11	249.35	11	0.00	11	11	11	11	11	11	11	11
1/4	1,656.34	1/4	1,298.54	1/4	941.96	1/4	585.49	1/4	242.73	1/4	0.00	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,648.89	1/2	1,291.09	1/2	934.56	1/2	578.04	1/2	236.10	1/2	0.00	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,641.44	3/4	1,283.63	3/4	927.17	3/4	570.59	3/4	229.48	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

STRAPPED: 07/18/2018 CL
CALCULATED: 07/19/2018 CL
PRINTED: 07/20/2018 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2018

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "E2MS 311"

1 STBD ULLAGE TABLE

HERMETIC GAUGE HEIGHT 15'-09 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	4,856.97	0	4,501.47	0	4,145.01	0	3,787.96	0	3,430.44	0	3,072.93	0	2,715.42	0	2,357.84
1/4		1/4		1/4	4,849.62	1/4	4,494.04	1/4	4,137.58	1/4	3,780.51	1/4	3,423.00	1/4	3,065.48	1/4	2,707.97	1/4	2,350.39
1/2		1/2		1/2	4,842.27	1/2	4,486.62	1/2	4,130.16	1/2	3,773.06	1/2	3,415.55	1/2	3,058.03	1/2	2,700.52	1/2	2,342.94
3/4		3/4		3/4	4,834.91	3/4	4,479.19	3/4	4,122.73	3/4	3,765.61	3/4	3,408.10	3/4	3,050.59	3/4	2,693.07	3/4	2,335.49
1		1		1	4,827.56	1	4,471.76	1	4,115.31	1	3,758.17	1	3,400.65	1	3,043.14	1	2,685.62	1	2,328.04
1/4		1/4		1/4	4,820.21	1/4	4,464.34	1/4	4,107.88	1/4	3,750.72	1/4	3,393.20	1/4	3,035.69	1/4	2,678.18	1/4	2,320.59
1/2		1/2		1/2	4,812.85	1/2	4,456.91	1/2	4,100.45	1/2	3,743.27	1/2	3,385.76	1/2	3,028.24	1/2	2,670.73	1/2	2,313.14
3/4		3/4		3/4	4,805.50	3/4	4,449.48	3/4	4,093.03	3/4	3,735.82	3/4	3,378.31	3/4	3,020.79	3/4	2,663.28	3/4	2,305.69
2		2		2	4,798.15	2	4,442.06	2	4,085.60	2	3,728.37	2	3,370.86	2	3,013.35	2	2,655.83	2	2,298.24
1/4		1/4		1/4	4,790.80	1/4	4,434.63	1/4	4,078.17	1/4	3,720.92	1/4	3,363.41	1/4	3,005.90	1/4	2,648.38	1/4	2,290.79
1/2		1/2		1/2	4,783.44	1/2	4,427.21	1/2	4,070.75	1/2	3,713.48	1/2	3,355.96	1/2	2,998.45	1/2	2,640.94	1/2	2,283.34
3/4		3/4		3/4	4,776.09	3/4	4,419.78	3/4	4,063.32	3/4	3,706.03	3/4	3,348.51	3/4	2,991.00	3/4	2,633.49	3/4	2,275.89
3		3		3	4,768.74	3	4,412.35	3	4,055.90	3	3,698.58	3	3,341.07	3	2,983.55	3	2,626.04	3	2,268.44
1/4		1/4		1/4	4,761.38	1/4	4,404.93	1/4	4,048.47	1/4	3,691.13	1/4	3,333.62	1/4	2,976.10	1/4	2,618.59	1/4	2,260.99
1/2		1/2		1/2	4,753.96	1/2	4,397.50	1/2	4,041.04	1/2	3,683.68	1/2	3,326.17	1/2	2,968.66	1/2	2,611.14	1/2	2,253.54
3/4		3/4		3/4	4,746.53	3/4	4,390.07	3/4	4,033.62	3/4	3,676.24	3/4	3,318.72	3/4	2,961.21	3/4	2,603.69	3/4	2,246.09
4		4		4	4,739.11	4	4,382.65	4	4,026.19	4	3,668.79	4	3,311.27	4	2,953.76	4	2,596.25	4	2,238.64
1/4		1/4		1/4	4,731.68	1/4	4,375.22	1/4	4,018.76	1/4	3,661.34	1/4	3,303.83	1/4	2,946.31	1/4	2,588.80	1/4	2,231.19
1/2		1/2		1/2	4,724.25	1/2	4,367.80	1/2	4,011.34	1/2	3,653.89	1/2	3,296.38	1/2	2,938.86	1/2	2,581.35	1/2	2,223.74
3/4		3/4		3/4	4,716.83	3/4	4,360.37	3/4	4,003.91	3/4	3,646.44	3/4	3,288.93	3/4	2,931.42	3/4	2,573.90	3/4	2,216.29
5		5		5	4,709.40	5	4,352.94	5	3,996.49	5	3,638.99	5	3,281.48	5	2,923.97	5	2,566.45	5	2,208.84
1/4		1/4		1/4	4,701.97	1/4	4,345.52	1/4	3,989.06	1/4	3,631.55	1/4	3,274.03	1/4	2,916.52	1/4	2,559.00	1/4	2,201.39
1/2		1/2		1/2	4,694.55	1/2	4,338.09	1/2	3,981.61	1/2	3,624.10	1/2	3,266.58	1/2	2,909.07	1/2	2,551.55	1/2	2,193.94
3/4		3/4		3/4	4,687.12	3/4	4,330.66	3/4	3,974.16	3/4	3,616.65	3/4	3,259.14	3/4	2,901.62	3/4	2,544.10	3/4	2,186.49
6		6		6	4,679.70	6	4,323.24	6	3,966.72	6	3,609.20	6	3,251.69	6	2,894.17	6	2,536.65	6	2,179.04
1/4		1/4		1/4	5,013.36	1/4	4,672.27	1/4	4,315.81	1/4	3,959.27	1/4	3,601.75	1/4	3,244.24	1/4	2,886.73	1/4	2,529.20
1/2		1/2		1/2	5,008.18	1/2	4,664.84	1/2	4,308.39	1/2	3,951.82	1/2	3,594.31	1/2	3,236.79	1/2	2,879.28	1/2	2,521.75
3/4		3/4		3/4	5,003.00	3/4	4,657.42	3/4	4,300.96	3/4	3,944.37	3/4	3,586.86	3/4	3,229.34	3/4	2,871.83	3/4	2,514.30
7		7		7	4,997.81	7	4,649.99	7	4,293.53	7	3,936.92	7	3,579.41	7	3,221.90	7	2,864.38	7	2,506.85
1/4		1/4		1/4	4,992.63	1/4	4,642.57	1/4	4,286.11	1/4	3,929.47	1/4	3,571.96	1/4	3,214.45	1/4	2,856.93	1/4	2,499.40
1/2		1/2		1/2	4,986.21	1/2	4,635.14	1/2	4,278.68	1/2	3,922.03	1/2	3,564.51	1/2	3,207.00	1/2	2,849.49	1/2	2,491.95
3/4		3/4		3/4	4,979.79	3/4	4,627.71	3/4	4,271.26	3/4	3,914.58	3/4	3,557.06	3/4	3,199.55	3/4	2,842.04	3/4	2,484.50
8		8		8	4,973.36	8	4,620.29	8	4,263.83	8	3,907.13	8	3,549.62	8	3,192.10	8	2,834.59	8	2,477.05
1/4		1/4		1/4	4,966.94	1/4	4,612.86	1/4	4,256.40	1/4	3,899.68	1/4	3,542.17	1/4	3,184.65	1/4	2,827.14	1/4	2,469.59
1/2		1/2		1/2	4,959.65	1/2	4,605.43	1/2	4,248.98	1/2	3,892.23	1/2	3,534.72	1/2	3,177.21	1/2	2,819.69	1/2	2,462.14
3/4		3/4		3/4	4,952.37	3/4	4,598.01	3/4	4,241.55	3/4	3,884.78	3/4	3,527.27	3/4	3,169.76	3/4	2,812.24	3/4	2,454.69
9		9		9	4,945.09	9	4,590.58	9	4,234.12	9	3,877.34	9	3,519.82	9	3,162.31	9	2,804.80	9	2,447.24
1/4		1/4		1/4	4,937.80	1/4	4,583.16	1/4	4,226.70	1/4	3,869.89	1/4	3,512.37	1/4	3,154.86	1/4	2,797.35	1/4	2,439.79
1/2		1/2		1/2	4,930.46	1/2	4,575.73	1/2	4,219.27	1/2	3,862.44	1/2	3,504.93	1/2	3,147.41	1/2	2,789.90	1/2	2,432.34
3/4		3/4		3/4	4,923.12	3/4	4,568.30	3/4	4,211.85	3/4	3,854.99	3/4	3,497.48	3/4	3,139.96	3/4	2,782.45	3/4	2,424.89
10		10		10	4,915.78	10	4,560.88	10	4,204.42	10	3,847.54	10	3,490.03	10	3,132.52	10	2,775.00	10	2,417.44
1/4		1/4		1/4	4,908.44	1/4	4,553.45	1/4	4,196.99	1/4	3,840.10	1/4	3,482.58	1/4	3,125.07	1/4	2,767.55	1/4	2,409.99
1/2		1/2		1/2	4,901.09	1/2	4,546.02	1/2	4,189.57	1/2	3,832.65	1/2	3,475.13	1/2	3,117.62	1/2	2,760.11	1/2	2,402.54
3/4		3/4		3/4	4,893.74	3/4	4,538.60	3/4	4,182.14	3/4	3,825.20	3/4	3,467.69	3/4	3,110.17	3/4	2,752.66	3/4	2,395.09
11		11		11	4,886.39	11	4,531.17	11	4,174.71	11	3,817.75	11	3,460.24	11	3,102.72	11	2,745.21	11	2,387.64
1/4		1/4		1/4	4,879.04	1/4	4,523.75	1/4	4,167.29	1/4	3,810.30	1/4	3,452.79	1/4	3,095.28	1/4	2,737.76	1/4	2,380.19
1/2		1/2		1/2	4,871.68	1/2	4,516.32	1/2	4,159.86	1/2	3,802.85	1/2	3,445.34	1/2	3,087.83	1/2	2,730.31	1/2	2,372.74
3/4		3/4		3/4	4,864.33	3/4	4,508.89	3/4	4,152.44	3/4	3,795.41	3/4	3,437.89	3/4	3,080.38	3/4	2,722.87	3/4	2,365.29

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 LIP OF 2" HERMETIC VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-09" FORWARD OF AFT BULKHEAD.

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



BARGE "E2MS 311"

1 STBD

ULLAGE TABLE HERMETIC

GAUGE HEIGHT 15'-09 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	2,000.23	0	1,642.62	0	1,285.01	0	927.66	0	570.29	0	229.34	0		0		0		0	
1/4	1,992.78	1/4	1,635.17	1/4	1,277.56	1/4	920.23	1/4	562.84	1/4	222.72	1/4		1/4		1/4		1/4	
1/2	1,985.33	1/2	1,627.72	1/2	1,270.11	1/2	912.79	1/2	555.39	1/2	216.19	1/2		1/2		1/2		1/2	
3/4	1,977.88	3/4	1,620.27	3/4	1,262.66	3/4	905.35	3/4	547.94	3/4	209.66	3/4		3/4		3/4		3/4	
1	1,970.43	1	1,612.82	1	1,255.21	1	897.92	1	540.49	1	203.13	1		1		1		1	
1/4	1,962.98	1/4	1,605.37	1/4	1,247.76	1/4	890.48	1/4	533.04	1/4	196.60	1/4		1/4		1/4		1/4	
1/2	1,955.53	1/2	1,597.92	1/2	1,240.31	1/2	883.04	1/2	525.59	1/2	190.15	1/2		1/2		1/2		1/2	
3/4	1,948.08	3/4	1,590.47	3/4	1,232.86	3/4	875.61	3/4	518.14	3/4	183.71	3/4		3/4		3/4		3/4	
2	1,940.63	2	1,583.02	2	1,225.41	2	868.17	2	510.69	2	177.26	2		2		2		2	
1/4	1,933.18	1/4	1,575.57	1/4	1,217.96	1/4	860.74	1/4	503.24	1/4	170.82	1/4		1/4		1/4		1/4	
1/2	1,925.73	1/2	1,568.12	1/2	1,210.51	1/2	853.30	1/2	495.83	1/2	164.46	1/2		1/2		1/2		1/2	
3/4	1,918.28	3/4	1,560.67	3/4	1,203.06	3/4	845.86	3/4	488.43	3/4	158.10	3/4		3/4		3/4		3/4	
3	1,910.83	3	1,553.22	3	1,195.61	3	838.43	3	481.02	3	151.75	3		3		3		3	
1/4	1,903.38	1/4	1,545.77	1/4	1,188.16	1/4	830.99	1/4	473.61	1/4	145.39	1/4		1/4		1/4		1/4	
1/2	1,895.93	1/2	1,538.32	1/2	1,180.71	1/2	823.56	1/2	466.29	1/2	139.12	1/2		1/2		1/2		1/2	
3/4	1,888.48	3/4	1,530.87	3/4	1,173.26	3/4	816.12	3/4	458.98	3/4	132.85	3/4		3/4		3/4		3/4	
4	1,881.03	4	1,523.42	4	1,165.81	4	808.68	4	451.66	4	126.58	4		4		4		4	
1/4	1,873.58	1/4	1,515.97	1/4	1,158.36	1/4	801.25	1/4	444.34	1/4	120.31	1/4		1/4		1/4		1/4	
1/2	1,866.13	1/2	1,508.52	1/2	1,150.91	1/2	793.80	1/2	437.11	1/2	114.13	1/2		1/2		1/2		1/2	
3/4	1,858.68	3/4	1,501.07	3/4	1,143.46	3/4	786.35	3/4	429.87	3/4	107.95	3/4		3/4		3/4		3/4	
5	1,851.23	5	1,493.62	5	1,136.01	5	778.90	5	422.64	5	101.77	5		5		5		5	
1/4	1,843.78	1/4	1,486.17	1/4	1,128.56	1/4	771.45	1/4	415.41	1/4	95.59	1/4		1/4		1/4		1/4	
1/2	1,836.33	1/2	1,478.72	1/2	1,121.11	1/2	764.00	1/2	408.27	1/2	89.50	1/2		1/2		1/2		1/2	
3/4	1,828.88	3/4	1,471.27	3/4	1,113.66	3/4	756.55	3/4	401.12	3/4	83.42	3/4		3/4		3/4		3/4	
6	1,821.43	6	1,463.82	6	1,106.21	6	749.10	6	393.98	6	77.34	6		6		6		6	
1/4	1,813.98	1/4	1,456.37	1/4	1,098.76	1/4	741.65	1/4	386.84	1/4	71.25	1/4		1/4		1/4		1/4	
1/2	1,806.53	1/2	1,448.92	1/2	1,091.31	1/2	734.20	1/2	379.78	1/2	65.28	1/2		1/2		1/2		1/2	
3/4	1,799.08	3/4	1,441.47	3/4	1,083.87	3/4	726.75	3/4	372.72	3/4	59.31	3/4		3/4		3/4		3/4	
7	1,791.63	7	1,434.02	7	1,076.42	7	719.30	7	365.67	7	53.34	7		7		7		7	
1/4	1,784.18	1/4	1,426.57	1/4	1,068.98	1/4	711.85	1/4	358.61	1/4	47.37	1/4		1/4		1/4		1/4	
1/2	1,776.73	1/2	1,419.12	1/2	1,061.54	1/2	704.40	1/2	351.64	1/2	42.38	1/2		1/2		1/2		1/2	
3/4	1,769.28	3/4	1,411.67	3/4	1,054.09	3/4	696.94	3/4	344.67	3/4	37.40	3/4		3/4		3/4		3/4	
8	1,761.83	8	1,404.22	8	1,046.65	8	689.49	8	337.70	8	32.41	8		8		8		8	
1/4	1,754.38	1/4	1,396.77	1/4	1,039.20	1/4	682.04	1/4	330.73	1/4	27.42	1/4		1/4		1/4		1/4	
1/2	1,746.93	1/2	1,389.32	1/2	1,031.77	1/2	674.59	1/2	323.85	1/2	24.38	1/2		1/2		1/2		1/2	
3/4	1,739.48	3/4	1,381.87	3/4	1,024.33	3/4	667.14	3/4	316.97	3/4	21.34	3/4		3/4		3/4		3/4	
9	1,732.03	9	1,374.42	9	1,016.89	9	659.69	9	310.09	9	18.31	9		9		9		9	
1/4	1,724.57	1/4	1,366.97	1/4	1,009.46	1/4	652.24	1/4	303.21	1/4	15.27	1/4		1/4		1/4		1/4	
1/2	1,717.12	1/2	1,359.52	1/2	1,002.02	1/2	644.79	1/2	296.41	1/2		1/2		1/2		1/2		1/2	
3/4	1,709.67	3/4	1,352.06	3/4	994.59	3/4	637.34	3/4	289.62	3/4		3/4		3/4		3/4		3/4	
10	1,702.22	10	1,344.61	10	987.15	10	629.89	10	282.82	10		10		10		10		10	
1/4	1,694.77	1/4	1,337.16	1/4	979.71	1/4	622.44	1/4	276.03	1/4		1/4		1/4		1/4		1/4	
1/2	1,687.32	1/2	1,329.71	1/2	972.28	1/2	614.99	1/2	269.32	1/2		1/2		1/2		1/2		1/2	
3/4	1,679.87	3/4	1,322.26	3/4	964.84	3/4	607.54	3/4	262.61	3/4		3/4		3/4		3/4		3/4	
11	1,672.42	11	1,314.81	11	957.41	11	600.09	11	255.91	11		11		11		11		11	
1/4	1,664.97	1/4	1,307.36	1/4	949.97	1/4	592.64	1/4	249.20	1/4		1/4		1/4		1/4		1/4	
1/2	1,657.52	1/2	1,299.91	1/2	942.53	1/2	585.19	1/2	242.58	1/2		1/2		1/2		1/2		1/2	
3/4	1,650.07	3/4	1,292.46	3/4	935.10	3/4	577.74	3/4	235.96	3/4		3/4		3/4		3/4		3/4	

STRAPPED: 07/18/2018 CL
CALCULATED: 07/19/2018 CL
PRINTED: 07/20/2018 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2018

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "E2MS 311"

2 PORT ULLAGE TABLE

HERMETIC GAUGE HEIGHT 15'-09"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	4,914.46	0	4,557.61	0	4,199.97	0	3,841.71	0	3,483.01	0	3,124.31	0	2,765.62	0	2,406.92
1/4		1/4		1/4	4,907.08	1/4	4,550.16	1/4	4,192.52	1/4	3,834.24	1/4	3,475.54	1/4	3,116.84	1/4	2,758.14	1/4	2,399.44
1/2		1/2		1/2	4,899.69	1/2	4,542.71	1/2	4,185.07	1/2	3,826.77	1/2	3,468.07	1/2	3,109.37	1/2	2,750.67	1/2	2,391.97
3/4		3/4		3/4	4,892.31	3/4	4,535.26	3/4	4,177.62	3/4	3,819.29	3/4	3,460.60	3/4	3,101.90	3/4	2,743.20	3/4	2,384.50
1		1		1	4,884.92	1	4,527.81	1	4,170.17	1	3,811.82	1	3,453.12	1	3,094.42	1	2,735.72	1	2,377.02
1/4		1/4		1/4	4,877.53	1/4	4,520.35	1/4	4,162.72	1/4	3,804.35	1/4	3,445.65	1/4	3,086.95	1/4	2,728.25	1/4	2,369.55
1/2		1/2		1/2	4,870.15	1/2	4,512.90	1/2	4,155.27	1/2	3,796.88	1/2	3,438.18	1/2	3,079.48	1/2	2,720.78	1/2	2,362.08
3/4		3/4		3/4	4,862.76	3/4	4,505.45	3/4	4,147.81	3/4	3,789.40	3/4	3,430.70	3/4	3,072.00	3/4	2,713.31	3/4	2,354.61
2		2		2	4,855.38	2	4,498.00	2	4,140.36	2	3,781.93	2	3,423.23	2	3,064.53	2	2,705.83	2	2,347.13
1/4		1/4		1/4	4,847.99	1/4	4,490.55	1/4	4,132.91	1/4	3,774.46	1/4	3,415.76	1/4	3,057.06	1/4	2,698.36	1/4	2,339.66
1/2		1/2		1/2	4,840.61	1/2	4,483.10	1/2	4,125.46	1/2	3,766.98	1/2	3,408.29	1/2	3,049.59	1/2	2,690.89	1/2	2,332.19
3/4		3/4		3/4	4,833.22	3/4	4,475.65	3/4	4,118.01	3/4	3,759.51	3/4	3,400.81	3/4	3,042.11	3/4	2,683.41	3/4	2,324.71
3		3		3	4,825.84	3	4,468.20	3	4,110.56	3	3,752.04	3	3,393.34	3	3,034.64	3	2,675.94	3	2,317.24
1/4		1/4		1/4	4,818.39	1/4	4,460.75	1/4	4,103.11	1/4	3,744.57	1/4	3,385.87	1/4	3,027.17	1/4	2,668.47	1/4	2,309.77
1/2		1/2		1/2	4,810.94	1/2	4,453.30	1/2	4,095.66	1/2	3,737.09	1/2	3,378.39	1/2	3,019.69	1/2	2,661.00	1/2	2,302.30
3/4		3/4		3/4	4,803.49	3/4	4,445.85	3/4	4,088.21	3/4	3,729.62	3/4	3,370.92	3/4	3,012.22	3/4	2,653.52	3/4	2,294.82
4		4		4	4,796.03	4	4,438.40	4	4,080.76	4	3,722.15	4	3,363.45	4	3,004.75	4	2,646.05	4	2,287.35
1/4		1/4		1/4	4,788.58	1/4	4,430.95	1/4	4,073.31	1/4	3,714.67	1/4	3,355.97	1/4	2,997.28	1/4	2,638.58	1/4	2,279.88
1/2		1/2		1/2	4,781.13	1/2	4,423.49	1/2	4,065.86	1/2	3,707.20	1/2	3,348.50	1/2	2,989.80	1/2	2,631.10	1/2	2,272.40
3/4		3/4		3/4	4,773.68	3/4	4,416.04	3/4	4,058.41	3/4	3,699.73	3/4	3,341.03	3/4	2,982.33	3/4	2,623.63	3/4	2,264.93
5		5		5	4,766.23	5	4,408.59	5	4,050.95	5	3,692.26	5	3,333.56	5	2,974.86	5	2,616.16	5	2,257.46
1/4		1/4		1/4	4,758.78	1/4	4,401.14	1/4	4,043.48	1/4	3,684.78	1/4	3,326.08	1/4	2,967.38	1/4	2,608.68	1/4	2,249.99
1/2		1/2		1/2	4,751.33	1/2	4,393.69	1/2	4,036.01	1/2	3,677.31	1/2	3,318.61	1/2	2,959.91	1/2	2,601.21	1/2	2,242.51
3/4		3/4		3/4	4,743.88	3/4	4,386.24	3/4	4,028.54	3/4	3,669.84	3/4	3,311.14	3/4	2,952.44	3/4	2,593.74	3/4	2,235.04
6		6	5,078.89	6	4,736.43	6	4,378.79	6	4,021.06	6	3,662.36	6	3,303.66	6	2,944.97	6	2,586.27	6	2,227.57
1/4		1/4	5,073.68	1/4	4,728.98	1/4	4,371.34	1/4	4,013.59	1/4	3,654.89	1/4	3,296.19	1/4	2,937.49	1/4	2,578.79	1/4	2,220.09
1/2		1/2	5,068.48	1/2	4,721.53	1/2	4,363.89	1/2	4,006.12	1/2	3,647.42	1/2	3,288.72	1/2	2,930.02	1/2	2,571.32	1/2	2,212.62
3/4		3/4	5,063.27	3/4	4,714.08	3/4	4,356.44	3/4	3,998.64	3/4	3,639.94	3/4	3,281.25	3/4	2,922.55	3/4	2,563.85	3/4	2,205.15
7		7	5,058.07	7	4,706.62	7	4,348.99	7	3,991.17	7	3,632.47	7	3,273.77	7	2,915.07	7	2,556.37	7	2,197.68
1/4		1/4	5,051.62	1/4	4,699.17	1/4	4,341.54	1/4	3,983.70	1/4	3,625.00	1/4	3,266.30	1/4	2,907.60	1/4	2,548.90	1/4	2,190.20
1/2		1/2	5,045.17	1/2	4,691.72	1/2	4,334.08	1/2	3,976.23	1/2	3,617.53	1/2	3,258.83	1/2	2,900.13	1/2	2,541.43	1/2	2,182.73
3/4		3/4	5,038.72	3/4	4,684.27	3/4	4,326.63	3/4	3,968.75	3/4	3,610.05	3/4	3,251.35	3/4	2,892.65	3/4	2,533.96	3/4	2,175.26
8		8	5,032.27	8	4,676.82	8	4,319.18	8	3,961.28	8	3,602.58	8	3,243.88	8	2,885.18	8	2,526.48	8	2,167.78
1/4		1/4	5,024.95	1/4	4,669.37	1/4	4,311.73	1/4	3,953.81	1/4	3,595.11	1/4	3,236.41	1/4	2,877.71	1/4	2,519.01	1/4	2,160.31
1/2		1/2	5,017.64	1/2	4,661.92	1/2	4,304.28	1/2	3,946.33	1/2	3,587.63	1/2	3,228.94	1/2	2,870.24	1/2	2,511.54	1/2	2,152.84
3/4		3/4	5,010.32	3/4	4,654.47	3/4	4,296.83	3/4	3,938.86	3/4	3,580.16	3/4	3,221.46	3/4	2,862.76	3/4	2,504.06	3/4	2,145.36
9		9	5,003.01	9	4,647.02	9	4,289.38	9	3,931.39	9	3,572.69	9	3,213.99	9	2,855.29	9	2,496.59	9	2,137.89
1/4		1/4	4,995.64	1/4	4,639.57	1/4	4,281.93	1/4	3,923.92	1/4	3,565.22	1/4	3,206.52	1/4	2,847.82	1/4	2,489.12	1/4	2,130.42
1/2		1/2	4,988.27	1/2	4,632.12	1/2	4,274.48	1/2	3,916.44	1/2	3,557.74	1/2	3,199.04	1/2	2,840.34	1/2	2,481.65	1/2	2,122.95
3/4		3/4	4,980.90	3/4	4,624.67	3/4	4,267.03	3/4	3,908.97	3/4	3,550.27	3/4	3,191.57	3/4	2,832.87	3/4	2,474.17	3/4	2,115.47
10		10	4,973.53	10	4,617.22	10	4,259.58	10	3,901.50	10	3,542.80	10	3,184.10	10	2,825.40	10	2,466.70	10	2,108.00
1/4		1/4	4,966.15	1/4	4,609.76	1/4	4,252.13	1/4	3,894.02	1/4	3,535.32	1/4	3,176.63	1/4	2,817.93	1/4	2,459.23	1/4	2,100.53
1/2		1/2	4,958.76	1/2	4,602.31	1/2	4,244.68	1/2	3,886.55	1/2	3,527.85	1/2	3,169.15	1/2	2,810.45	1/2	2,451.75	1/2	2,093.05
3/4		3/4	4,951.38	3/4	4,594.86	3/4	4,237.22	3/4	3,879.08	3/4	3,520.38	3/4	3,161.68	3/4	2,802.98	3/4	2,444.28	3/4	2,085.58
11		11	4,944.00	11	4,587.41	11	4,229.77	11	3,871.60	11	3,512.91	11	3,154.21	11	2,795.51	11	2,436.81	11	2,078.11
1/4		1/4	4,936.62	1/4	4,579.96	1/4	4,222.32	1/4	3,864.13	1/4	3,505.43	1/4	3,146.73	1/4	2,788.03	1/4	2,429.34	1/4	2,070.64
1/2		1/2	4,929.23	1/2	4,572.51	1/2	4,214.87	1/2	3,856.66	1/2	3,497.96	1/2	3,139.26	1/2	2,780.56	1/2	2,421.86	1/2	2,063.16
3/4		3/4	4,921.85	3/4	4,565.06	3/4	4,207.42	3/4	3,849.19	3/4	3,490.49	3/4	3,131.79	3/4	2,773.09	3/4	2,414.39	3/4	2,055.69

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 LIP OF 2" HERMETIC VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-06" FORWARD OF AFT BULKHEAD.

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



BARGE "E2MS 311"

2 PORT ULLAGE TABLE HERMETIC GAUGE HEIGHT 15'-09"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	2,048.22	0	1,689.52	0	1,330.82	0	980.54	0	627.88	0	269.19	0	0	0	0	0	0	0	0
1/4	2,040.74	1/4	1,682.05	1/4	1,323.35	1/4	973.38	1/4	620.41	1/4	261.71	1/4	0	0	0	0	0	0	0
1/2	2,033.27	1/2	1,674.57	1/2	1,315.87	1/2	966.21	1/2	612.94	1/2	254.24	1/2	0	0	0	0	0	0	0
3/4	2,025.80	3/4	1,667.10	3/4	1,308.40	3/4	959.04	3/4	605.46	3/4	246.77	3/4	0	0	0	0	0	0	0
1	2,018.33	1	1,659.63	1	1,300.93	1	951.88	1	597.99	1	239.30	1	0	0	0	0	0	0	0
1/4	2,010.85	1/4	1,652.15	1/4	1,293.45	1/4	944.71	1/4	590.52	1/4	231.82	1/4	0	0	0	0	0	0	0
1/2	2,003.38	1/2	1,644.68	1/2	1,285.98	1/2	937.55	1/2	583.04	1/2	224.35	1/2	0	0	0	0	0	0	0
3/4	1,995.91	3/4	1,637.21	3/4	1,278.51	3/4	930.38	3/4	575.57	3/4	216.88	3/4	0	0	0	0	0	0	0
2	1,988.43	2	1,629.73	2	1,271.04	2	923.21	2	568.10	2	209.40	2	0	0	0	0	0	0	0
1/4	1,980.96	1/4	1,622.26	1/4	1,263.56	1/4	916.05	1/4	560.63	1/4	201.93	1/4	0	0	0	0	0	0	0
1/2	1,973.49	1/2	1,614.79	1/2	1,256.09	1/2	908.88	1/2	553.15	1/2	194.46	1/2	0	0	0	0	0	0	0
3/4	1,966.02	3/4	1,607.32	3/4	1,248.62	3/4	901.71	3/4	545.68	3/4	186.99	3/4	0	0	0	0	0	0	0
3	1,958.54	3	1,599.84	3	1,241.14	3	894.55	3	538.21	3	179.51	3	0	0	0	0	0	0	0
1/4	1,951.07	1/4	1,592.37	1/4	1,233.67	1/4	887.38	1/4	530.73	1/4	172.04	1/4	0	0	0	0	0	0	0
1/2	1,943.60	1/2	1,584.90	1/2	1,226.20	1/2	880.22	1/2	523.26	1/2	164.57	1/2	0	0	0	0	0	0	0
3/4	1,936.12	3/4	1,577.42	3/4	1,218.73	3/4	873.05	3/4	515.79	3/4	157.09	3/4	0	0	0	0	0	0	0
4	1,928.65	4	1,569.95	4	1,211.25	4	865.88	4	508.32	4	149.62	4	0	0	0	0	0	0	0
1/4	1,921.18	1/4	1,562.48	1/4	1,203.78	1/4	858.69	1/4	500.84	1/4	142.15	1/4	0	0	0	0	0	0	0
1/2	1,913.70	1/2	1,555.01	1/2	1,196.31	1/2	851.50	1/2	493.37	1/2	134.68	1/2	0	0	0	0	0	0	0
3/4	1,906.23	3/4	1,547.53	3/4	1,188.83	3/4	844.31	3/4	485.90	3/4	127.21	3/4	0	0	0	0	0	0	0
5	1,898.76	5	1,540.06	5	1,181.36	5	837.12	5	478.42	5	119.74	5	0	0	0	0	0	0	0
1/4	1,891.29	1/4	1,532.59	1/4	1,174.17	1/4	829.65	1/4	470.95	1/4	112.27	1/4	0	0	0	0	0	0	0
1/2	1,883.81	1/2	1,525.11	1/2	1,166.98	1/2	822.17	1/2	463.48	1/2	104.81	1/2	0	0	0	0	0	0	0
3/4	1,876.34	3/4	1,517.64	3/4	1,159.79	3/4	814.70	3/4	456.01	3/4	97.35	3/4	0	0	0	0	0	0	0
6	1,868.87	6	1,510.17	6	1,152.60	6	807.23	6	448.53	6	89.89	6	0	0	0	0	0	0	0
1/4	1,861.39	1/4	1,502.70	1/4	1,145.42	1/4	799.76	1/4	441.06	1/4	82.45	1/4	0	0	0	0	0	0	0
1/2	1,853.92	1/2	1,495.22	1/2	1,138.25	1/2	792.28	1/2	433.59	1/2	75.01	1/2	0	0	0	0	0	0	0
3/4	1,846.45	3/4	1,487.75	3/4	1,131.07	3/4	784.81	3/4	426.12	3/4	67.58	3/4	0	0	0	0	0	0	0
7	1,838.98	7	1,480.28	7	1,123.90	7	777.34	7	418.64	7	60.14	7	0	0	0	0	0	0	0
1/4	1,831.50	1/4	1,472.80	1/4	1,116.73	1/4	769.86	1/4	411.17	1/4	53.60	1/4	0	0	0	0	0	0	0
1/2	1,824.03	1/2	1,465.33	1/2	1,109.55	1/2	762.39	1/2	403.70	1/2	47.07	1/2	0	0	0	0	0	0	0
3/4	1,816.56	3/4	1,457.86	3/4	1,102.38	3/4	754.92	3/4	396.22	3/4	40.53	3/4	0	0	0	0	0	0	0
8	1,809.08	8	1,450.39	8	1,095.20	8	747.45	8	388.75	8	33.99	8	0	0	0	0	0	0	0
1/4	1,801.61	1/4	1,442.91	1/4	1,088.04	1/4	739.97	1/4	381.28	1/4	29.32	1/4	0	0	0	0	0	0	0
1/2	1,794.14	1/2	1,435.44	1/2	1,080.87	1/2	732.50	1/2	373.81	1/2	24.65	1/2	0	0	0	0	0	0	0
3/4	1,786.67	3/4	1,427.97	3/4	1,073.70	3/4	725.03	3/4	366.33	3/4	19.98	3/4	0	0	0	0	0	0	0
9	1,779.19	9	1,420.49	9	1,066.54	9	717.55	9	358.86	9	15.31	9	0	0	0	0	0	0	0
1/4	1,771.72	1/4	1,413.02	1/4	1,059.37	1/4	710.08	1/4	351.39	1/4	0	1/4	0	0	0	0	0	0	0
1/2	1,764.25	1/2	1,405.55	1/2	1,052.21	1/2	702.61	1/2	343.91	1/2	0	1/2	0	0	0	0	0	0	0
3/4	1,756.77	3/4	1,398.07	3/4	1,045.04	3/4	695.14	3/4	336.44	3/4	0	3/4	0	0	0	0	0	0	0
10	1,749.30	10	1,390.60	10	1,037.87	10	687.66	10	328.97	10	0	10	0	0	0	0	0	0	0
1/4	1,741.83	1/4	1,383.13	1/4	1,030.71	1/4	680.19	1/4	321.50	1/4	0	1/4	0	0	0	0	0	0	0
1/2	1,734.36	1/2	1,375.66	1/2	1,023.54	1/2	672.72	1/2	314.02	1/2	0	1/2	0	0	0	0	0	0	0
3/4	1,726.88	3/4	1,368.18	3/4	1,016.37	3/4	665.24	3/4	306.55	3/4	0	3/4	0	0	0	0	0	0	0
11	1,719.41	11	1,360.71	11	1,009.21	11	657.77	11	299.08	11	0	11	0	0	0	0	0	0	0
1/4	1,711.94	1/4	1,353.24	1/4	1,002.04	1/4	650.30	1/4	291.60	1/4	0	1/4	0	0	0	0	0	0	0
1/2	1,704.46	1/2	1,345.76	1/2	994.88	1/2	642.83	1/2	284.13	1/2	0	1/2	0	0	0	0	0	0	0
3/4	1,696.99	3/4	1,338.29	3/4	987.71	3/4	635.35	3/4	276.66	3/4	0	3/4	0	0	0	0	0	0	0

STRAPPED: 07/18/2018 CL
CALCULATED: 07/19/2018 CL
PRINTED: 07/20/2018 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2018

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "E2MS 311"

2 STBD ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	4,929.49	0	4,572.69	0	4,215.01	0	3,856.72	0	3,497.99	0	3,139.27	0	2,780.55	0	2,421.75
1/4		1/4		1/4	4,922.11	1/4	4,565.24	1/4	4,207.56	1/4	3,849.24	1/4	3,490.52	1/4	3,131.80	1/4	2,773.07	1/4	2,414.28
1/2		1/2		1/2	4,914.74	1/2	4,557.79	1/2	4,200.10	1/2	3,841.77	1/2	3,483.05	1/2	3,124.32	1/2	2,765.60	1/2	2,406.80
3/4		3/4		3/4	4,907.36	3/4	4,550.33	3/4	4,192.65	3/4	3,834.30	3/4	3,475.57	3/4	3,116.85	3/4	2,758.13	3/4	2,399.33
1		1		1	4,899.98	1	4,542.88	1	4,185.20	1	3,826.82	1	3,468.10	1	3,109.38	1	2,750.65	1	2,391.85
1/4		1/4		1/4	4,892.60	1/4	4,535.43	1/4	4,177.75	1/4	3,819.35	1/4	3,460.63	1/4	3,101.90	1/4	2,743.18	1/4	2,384.38
1/2		1/2		1/2	4,885.22	1/2	4,527.98	1/2	4,170.30	1/2	3,811.88	1/2	3,453.15	1/2	3,094.43	1/2	2,735.71	1/2	2,376.90
3/4		3/4		3/4	4,877.84	3/4	4,520.53	3/4	4,162.84	3/4	3,804.40	3/4	3,445.68	3/4	3,086.96	3/4	2,728.23	3/4	2,369.43
2		2		2	4,870.46	2	4,513.07	2	4,155.39	2	3,796.93	2	3,438.21	2	3,079.48	2	2,720.76	2	2,361.95
1/4		1/4		1/4	4,863.09	1/4	4,505.62	1/4	4,147.94	1/4	3,789.46	1/4	3,430.73	1/4	3,072.01	1/4	2,713.29	1/4	2,354.47
1/2		1/2		1/2	4,855.71	1/2	4,498.17	1/2	4,140.49	1/2	3,781.98	1/2	3,423.26	1/2	3,064.54	1/2	2,705.81	1/2	2,347.00
3/4		3/4		3/4	4,848.33	3/4	4,490.72	3/4	4,133.04	3/4	3,774.51	3/4	3,415.79	3/4	3,057.06	3/4	2,698.34	3/4	2,339.52
3		3		3	4,840.95	3	4,483.27	3	4,125.59	3	3,767.04	3	3,408.31	3	3,049.59	3	2,690.87	3	2,332.05
1/4		1/4		1/4	4,833.50	1/4	4,475.82	1/4	4,118.13	1/4	3,759.56	1/4	3,400.84	1/4	3,042.12	1/4	2,683.39	1/4	2,324.57
1/2		1/2		1/2	4,826.05	1/2	4,468.36	1/2	4,110.68	1/2	3,752.09	1/2	3,393.37	1/2	3,034.64	1/2	2,675.92	1/2	2,317.10
3/4		3/4		3/4	4,818.59	3/4	4,460.91	3/4	4,103.23	3/4	3,744.62	3/4	3,385.89	3/4	3,027.17	3/4	2,668.45	3/4	2,309.62
4		4		4	4,811.14	4	4,453.46	4	4,095.78	4	3,737.14	4	3,378.42	4	3,019.70	4	2,660.97	4	2,302.14
1/4		1/4		1/4	4,803.69	1/4	4,446.01	1/4	4,088.33	1/4	3,729.67	1/4	3,370.95	1/4	3,012.22	1/4	2,653.50	1/4	2,294.67
1/2		1/2		1/2	4,796.24	1/2	4,438.56	1/2	4,080.88	1/2	3,722.20	1/2	3,363.47	1/2	3,004.75	1/2	2,646.02	1/2	2,287.19
3/4		3/4		3/4	4,788.79	3/4	4,431.11	3/4	4,073.42	3/4	3,714.72	3/4	3,356.00	3/4	2,997.28	3/4	2,638.55	3/4	2,279.72
5		5		5	4,781.34	5	4,423.65	5	4,065.97	5	3,707.25	5	3,348.53	5	2,989.80	5	2,631.07	5	2,272.24
1/4		1/4		1/4	4,773.88	1/4	4,416.20	1/4	4,058.50	1/4	3,699.78	1/4	3,341.05	1/4	2,982.33	1/4	2,623.60	1/4	2,264.77
1/2		1/2		1/2	4,766.43	1/2	4,408.75	1/2	4,051.03	1/2	3,692.30	1/2	3,333.58	1/2	2,974.86	1/2	2,616.12	1/2	2,257.29
3/4		3/4		3/4	4,758.98	3/4	4,401.30	3/4	4,043.55	3/4	3,684.83	3/4	3,326.11	3/4	2,967.38	3/4	2,608.64	3/4	2,249.82
6		6	5,093.81	6	4,751.53	6	4,393.85	6	4,036.08	6	3,677.36	6	3,318.63	6	2,959.91	6	2,601.17	6	2,242.34
1/4		1/4	5,088.61	1/4	4,744.08	1/4	4,386.40	1/4	4,028.61	1/4	3,669.88	1/4	3,311.16	1/4	2,952.44	1/4	2,593.69	1/4	2,234.86
1/2		1/2	5,083.41	1/2	4,736.63	1/2	4,378.94	1/2	4,021.13	1/2	3,662.41	1/2	3,303.69	1/2	2,944.96	1/2	2,586.22	1/2	2,227.39
3/4		3/4	5,078.21	3/4	4,729.17	3/4	4,371.49	3/4	4,013.66	3/4	3,654.94	3/4	3,296.21	3/4	2,937.49	3/4	2,578.74	3/4	2,219.91
7		7	5,073.01	7	4,721.72	7	4,364.04	7	4,006.19	7	3,647.46	7	3,288.74	7	2,930.02	7	2,571.27	7	2,212.44
1/4		1/4	5,066.57	1/4	4,714.27	1/4	4,356.59	1/4	3,998.71	1/4	3,639.99	1/4	3,281.27	1/4	2,922.54	1/4	2,563.79	1/4	2,204.96
1/2		1/2	5,060.12	1/2	4,706.82	1/2	4,349.14	1/2	3,991.24	1/2	3,632.52	1/2	3,273.79	1/2	2,915.07	1/2	2,556.32	1/2	2,197.49
3/4		3/4	5,053.67	3/4	4,699.37	3/4	4,341.69	3/4	3,983.77	3/4	3,625.04	3/4	3,266.32	3/4	2,907.60	3/4	2,548.84	3/4	2,190.01
8		8	5,047.23	8	4,691.92	8	4,334.23	8	3,976.29	8	3,617.57	8	3,258.85	8	2,900.12	8	2,541.36	8	2,182.54
1/4		1/4	5,039.92	1/4	4,684.46	1/4	4,326.78	1/4	3,968.82	1/4	3,610.10	1/4	3,251.37	1/4	2,892.65	1/4	2,533.89	1/4	2,175.06
1/2		1/2	5,032.61	1/2	4,677.01	1/2	4,319.33	1/2	3,961.35	1/2	3,602.62	1/2	3,243.90	1/2	2,885.18	1/2	2,526.41	1/2	2,167.58
3/4		3/4	5,025.30	3/4	4,669.56	3/4	4,311.88	3/4	3,953.87	3/4	3,595.15	3/4	3,236.43	3/4	2,877.70	3/4	2,518.94	3/4	2,160.11
9		9	5,017.99	9	4,662.11	9	4,304.43	9	3,946.40	9	3,587.68	9	3,228.95	9	2,870.23	9	2,511.46	9	2,152.63
1/4		1/4	5,010.62	1/4	4,654.66	1/4	4,296.98	1/4	3,938.93	1/4	3,580.20	1/4	3,221.48	1/4	2,862.76	1/4	2,503.99	1/4	2,145.16
1/2		1/2	5,003.26	1/2	4,647.21	1/2	4,289.52	1/2	3,931.45	1/2	3,572.73	1/2	3,214.01	1/2	2,855.28	1/2	2,496.51	1/2	2,137.68
3/4		3/4	4,995.89	3/4	4,639.75	3/4	4,282.07	3/4	3,923.98	3/4	3,565.26	3/4	3,206.53	3/4	2,847.81	3/4	2,489.03	3/4	2,130.21
10		10	4,988.53	10	4,632.30	10	4,274.62	10	3,916.50	10	3,557.78	10	3,199.06	10	2,840.34	10	2,481.56	10	2,122.73
1/4		1/4	4,981.15	1/4	4,624.85	1/4	4,267.17	1/4	3,909.03	1/4	3,550.31	1/4	3,191.59	1/4	2,832.86	1/4	2,474.08	1/4	2,115.25
1/2		1/2	4,973.77	1/2	4,617.40	1/2	4,259.72	1/2	3,901.56	1/2	3,542.83	1/2	3,184.11	1/2	2,825.39	1/2	2,466.61	1/2	2,107.78
3/4		3/4	4,966.39	3/4	4,609.95	3/4	4,252.27	3/4	3,894.08	3/4	3,535.36	3/4	3,176.64	3/4	2,817.92	3/4	2,459.13	3/4	2,100.30
11		11	4,959.01	11	4,602.50	11	4,244.81	11	3,886.61	11	3,527.89	11	3,169.16	11	2,810.44	11	2,451.66	11	2,092.83
1/4		1/4	4,951.63	1/4	4,595.04	1/4	4,237.36	1/4	3,879.14	1/4	3,520.41	1/4	3,161.69	1/4	2,802.97	1/4	2,444.18	1/4	2,085.35
1/2		1/2	4,944.25	1/2	4,587.59	1/2	4,229.91	1/2	3,871.66	1/2	3,512.94	1/2	3,154.22	1/2	2,795.49	1/2	2,436.71	1/2	2,077.88
3/4		3/4	4,936.87	3/4	4,580.14	3/4	4,222.46	3/4	3,864.19	3/4	3,505.47	3/4	3,146.74	3/4	2,788.02	3/4	2,429.23	3/4	2,070.40

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 LIP OF 2" HERMETIC VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-06" FORWARD OF AFT BULKHEAD.

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



BARGE "E2MS 311"

2 STBD

ULLAGE TABLE

HERMETIC

GAUGE HEIGHT 15'-09"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	2,062.93	0	1,704.10	0	1,345.27	0	986.71	0	628.12	0	269.29	0	0	0	0	0	0	0	0
1/4	2,055.45	1/4	1,696.62	1/4	1,337.79	1/4	1,307.89	1/4	949.41	1/4	590.74	1/4	231.91	1/4	1	1	1	1	1
1/2	2,047.97	1/2	1,689.15	1/2	1,330.32	1/2	971.79	1/2	613.16	1/2	254.34	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,040.50	3/4	1,681.67	3/4	1,322.84	3/4	964.33	3/4	605.69	3/4	246.86	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4
1	2,033.02	1	1,674.19	1	1,315.37	1	956.87	1	598.21	1	239.38	1	0	1	1	1	1	1	1
1/4	2,025.55	1/4	1,666.72	1/4	1,307.89	1/4	949.41	1/4	590.74	1/4	231.91	1/4	0	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,018.07	1/2	1,659.24	1/2	1,300.41	1/2	941.95	1/2	583.26	1/2	224.43	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,010.60	3/4	1,651.77	3/4	1,292.94	3/4	934.49	3/4	575.79	3/4	216.96	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4
2	2,003.12	2	1,644.29	2	1,285.46	2	927.02	2	568.31	2	209.48	2	0	2	2	2	2	2	2
1/4	1,995.65	1/4	1,636.82	1/4	1,277.99	1/4	919.56	1/4	560.83	1/4	202.01	1/4	0	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,988.17	1/2	1,629.34	1/2	1,270.51	1/2	912.10	1/2	553.36	1/2	194.53	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,980.69	3/4	1,621.87	3/4	1,263.04	3/4	904.64	3/4	545.88	3/4	187.05	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4
3	1,973.22	3	1,614.39	3	1,255.56	3	897.18	3	538.41	3	179.58	3	0	3	3	3	3	3	3
1/4	1,965.74	1/4	1,606.91	1/4	1,248.09	1/4	889.72	1/4	530.93	1/4	172.10	1/4	0	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,958.27	1/2	1,599.44	1/2	1,240.61	1/2	882.26	1/2	523.46	1/2	164.63	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,950.79	3/4	1,591.96	3/4	1,233.13	3/4	874.80	3/4	515.98	3/4	157.15	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4
4	1,943.32	4	1,584.49	4	1,225.66	4	867.33	4	508.51	4	149.68	4	0	4	4	4	4	4	4
1/4	1,935.84	1/4	1,577.01	1/4	1,218.18	1/4	859.86	1/4	501.03	1/4	142.20	1/4	0	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,928.36	1/2	1,569.54	1/2	1,210.71	1/2	852.38	1/2	493.55	1/2	134.73	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,920.89	3/4	1,562.06	3/4	1,203.23	3/4	844.91	3/4	486.08	3/4	127.25	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4
5	1,913.41	5	1,554.58	5	1,195.76	5	837.43	5	478.60	5	119.78	5	0	5	5	5	5	5	5
1/4	1,905.94	1/4	1,547.11	1/4	1,188.28	1/4	829.96	1/4	471.13	1/4	112.31	1/4	0	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,898.46	1/2	1,539.63	1/2	1,180.80	1/2	822.48	1/2	463.65	1/2	104.85	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,890.99	3/4	1,532.16	3/4	1,173.33	3/4	815.01	3/4	456.18	3/4	97.38	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4
6	1,883.51	6	1,524.68	6	1,165.85	6	807.53	6	448.70	6	89.92	6	0	6	6	6	6	6	6
1/4	1,876.04	1/4	1,517.21	1/4	1,158.38	1/4	800.05	1/4	441.23	1/4	82.48	1/4	0	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,868.56	1/2	1,509.73	1/2	1,150.91	1/2	792.58	1/2	433.75	1/2	75.04	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,861.08	3/4	1,502.26	3/4	1,143.44	3/4	785.10	3/4	426.27	3/4	67.60	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4
7	1,853.61	7	1,494.78	7	1,135.97	7	777.63	7	418.80	7	60.16	7	0	7	7	7	7	7	7
1/4	1,846.13	1/4	1,487.30	1/4	1,128.50	1/4	770.15	1/4	411.32	1/4	53.62	1/4	0	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,838.66	1/2	1,479.83	1/2	1,121.03	1/2	762.68	1/2	403.85	1/2	47.08	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,831.18	3/4	1,472.35	3/4	1,113.56	3/4	755.20	3/4	396.37	3/4	40.54	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4
8	1,823.71	8	1,464.88	8	1,106.09	8	747.72	8	388.90	8	34.00	8	0	8	8	8	8	8	8
1/4	1,816.23	1/4	1,457.40	1/4	1,098.63	1/4	740.25	1/4	381.42	1/4	29.33	1/4	0	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,808.76	1/2	1,449.93	1/2	1,091.17	1/2	732.77	1/2	373.94	1/2	24.66	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,801.28	3/4	1,442.45	3/4	1,083.71	3/4	725.30	3/4	366.47	3/4	19.99	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4
9	1,793.80	9	1,434.98	9	1,076.25	9	717.82	9	358.99	9	15.32	9	0	9	9	9	9	9	9
1/4	1,786.33	1/4	1,427.50	1/4	1,068.79	1/4	710.35	1/4	351.52	1/4	0	1/4	0	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,778.85	1/2	1,420.02	1/2	1,061.33	1/2	702.87	1/2	344.04	1/2	0	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,771.38	3/4	1,412.55	3/4	1,053.86	3/4	695.40	3/4	336.57	3/4	0	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4
10	1,763.90	10	1,405.07	10	1,046.40	10	687.92	10	329.09	10	0	10	0	10	10	10	10	10	10
1/4	1,756.43	1/4	1,397.60	1/4	1,038.94	1/4	680.44	1/4	321.62	1/4	0	1/4	0	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,748.95	1/2	1,390.12	1/2	1,031.48	1/2	672.97	1/2	314.14	1/2	0	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,741.47	3/4	1,382.65	3/4	1,024.02	3/4	665.49	3/4	306.66	3/4	0	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4
11	1,734.00	11	1,375.17	11	1,016.56	11	658.02	11	299.19	11	0	11	0	11	11	11	11	11	11
1/4	1,726.52	1/4	1,367.69	1/4	1,009.10	1/4	650.54	1/4	291.71	1/4	0	1/4	0	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,719.05	1/2	1,360.22	1/2	1,001.64	1/2	643.07	1/2	284.24	1/2	0	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,711.57	3/4	1,352.74	3/4	994.17	3/4	635.59	3/4	276.76	3/4	0	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4

STRAPPED: 07/18/2018 CL
 CALCULATED: 07/19/2018 CL
 PRINTED: 07/20/2018 SW

CANCELS AND SUPERCEDES
 ALL PRIOR TO 07/2018

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77588
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BARGE "E2MS 311"

3 PORT ULLAGE TABLE

HERMETIC GAUGE HEIGHT 15'-09 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	4,353.87	0	4,135.62	0	3,916.78	0	3,697.61	0	3,464.95	0	3,114.80	0	2,758.50	0	2,402.14
1/4		1/4		1/4	4,349.36	1/4	4,131.06	1/4	3,912.22	1/4	3,693.03	1/4	3,458.75	1/4	3,107.38	1/4	2,751.08	1/4	2,394.71
1/2		1/2		1/2	4,344.84	1/2	4,126.50	1/2	3,907.66	1/2	3,688.46	1/2	3,452.08	1/2	3,099.96	1/2	2,743.66	1/2	2,387.27
3/4		3/4		3/4	4,340.33	3/4	4,121.94	3/4	3,903.11	3/4	3,683.89	3/4	3,445.40	3/4	3,092.53	3/4	2,736.23	3/4	2,379.84
1		1		1	4,335.81	1	4,117.38	1	3,898.55	1	3,679.32	1	3,438.73	1	3,085.11	1	2,728.81	1	2,372.41
1/4		1/4		1/4	4,331.30	1/4	4,112.82	1/4	3,893.99	1/4	3,674.75	1/4	3,432.05	1/4	3,077.69	1/4	2,721.39	1/4	2,364.97
1/2		1/2		1/2	4,326.79	1/2	4,108.27	1/2	3,889.43	1/2	3,670.18	1/2	3,424.90	1/2	3,070.27	1/2	2,713.97	1/2	2,357.54
3/4		3/4		3/4	4,322.27	3/4	4,103.71	3/4	3,884.87	3/4	3,665.60	3/4	3,417.74	3/4	3,062.84	3/4	2,706.54	3/4	2,350.11
2		2		2	4,317.76	2	4,099.15	2	3,880.31	2	3,661.03	2	3,410.59	2	3,055.42	2	2,699.12	2	2,342.67
1/4		1/4		1/4	4,313.24	1/4	4,094.59	1/4	3,875.75	1/4	3,656.46	1/4	3,403.43	1/4	3,048.00	1/4	2,691.70	1/4	2,335.24
1/2		1/2		1/2	4,308.73	1/2	4,090.03	1/2	3,871.19	1/2	3,651.89	1/2	3,396.05	1/2	3,040.57	1/2	2,684.27	1/2	2,327.81
3/4		3/4		3/4	4,304.22	3/4	4,085.47	3/4	3,866.63	3/4	3,647.32	3/4	3,388.67	3/4	3,033.15	3/4	2,676.85	3/4	2,320.37
3		3		3	4,299.70	3	4,080.91	3	3,862.07	3	3,642.75	3	3,381.29	3	3,025.73	3	2,669.43	3	2,312.94
1/4		1/4		1/4	4,295.19	1/4	4,076.35	1/4	3,857.51	1/4	3,638.17	1/4	3,373.91	1/4	3,018.30	1/4	2,662.01	1/4	2,305.51
1/2		1/2		1/2	4,290.63	1/2	4,071.79	1/2	3,852.96	1/2	3,633.60	1/2	3,366.52	1/2	3,010.88	1/2	2,654.58	1/2	2,298.07
3/4		3/4		3/4	4,286.07	3/4	4,067.23	3/4	3,848.40	3/4	3,629.03	3/4	3,359.13	3/4	3,003.46	3/4	2,647.16	3/4	2,290.64
4		4		4	4,281.51	4	4,062.67	4	3,843.84	4	3,624.46	4	3,351.74	4	2,996.04	4	2,639.74	4	2,283.21
1/4		1/4		1/4	4,276.95	1/4	4,058.12	1/4	3,839.28	1/4	3,619.89	1/4	3,344.35	1/4	2,988.61	1/4	2,632.31	1/4	2,275.77
1/2		1/2		1/2	4,272.39	1/2	4,053.56	1/2	3,834.72	1/2	3,615.32	1/2	3,336.95	1/2	2,981.19	1/2	2,624.89	1/2	2,268.35
3/4		3/4		3/4	4,267.83	3/4	4,049.00	3/4	3,830.16	3/4	3,610.74	3/4	3,329.56	3/4	2,973.77	3/4	2,617.47	3/4	2,260.92
5		5		5	4,263.27	5	4,044.44	5	3,825.60	5	3,606.17	5	3,322.17	5	2,966.34	5	2,610.04	5	2,253.49
1/4		1/4		1/4	4,258.72	1/4	4,039.88	1/4	3,821.04	1/4	3,601.60	1/4	3,314.77	1/4	2,958.92	1/4	2,602.62	1/4	2,246.06
1/2		1/2		1/2	4,254.16	1/2	4,035.32	1/2	3,816.47	1/2	3,597.03	1/2	3,307.38	1/2	2,951.50	1/2	2,595.19	1/2	2,238.64
3/4		3/4		3/4	4,249.60	3/4	4,030.76	3/4	3,811.90	3/4	3,592.46	3/4	3,299.98	3/4	2,944.08	3/4	2,587.77	3/4	2,231.21
6		6		6	4,245.04	6	4,026.20	6	3,807.33	6	3,587.89	6	3,292.59	6	2,936.65	6	2,580.35	6	2,223.78
1/4		1/4	4,449.89	1/4	4,240.48	1/4	4,021.64	1/4	3,802.76	1/4	3,583.31	1/4	3,285.19	1/4	2,929.23	1/4	2,572.92	1/4	2,216.35
1/2		1/2	4,446.71	1/2	4,235.92	1/2	4,017.08	1/2	3,798.18	1/2	3,578.74	1/2	3,277.80	1/2	2,921.81	1/2	2,565.50	1/2	2,208.92
3/4		3/4	4,443.53	3/4	4,231.36	3/4	4,012.52	3/4	3,793.61	3/4	3,574.17	3/4	3,270.40	3/4	2,914.38	3/4	2,558.07	3/4	2,201.50
7		7	4,440.35	7	4,226.80	7	4,007.97	7	3,789.04	7	3,569.60	7	3,263.01	7	2,906.96	7	2,550.65	7	2,194.07
1/4		1/4	4,437.16	1/4	4,222.24	1/4	4,003.41	1/4	3,784.47	1/4	3,565.03	1/4	3,255.61	1/4	2,899.54	1/4	2,543.22	1/4	2,186.64
1/2		1/2	4,433.22	1/2	4,217.68	1/2	3,998.85	1/2	3,779.90	1/2	3,560.46	1/2	3,248.22	1/2	2,892.12	1/2	2,535.80	1/2	2,179.21
3/4		3/4	4,429.28	3/4	4,213.12	3/4	3,994.29	3/4	3,775.32	3/4	3,555.88	3/4	3,240.82	3/4	2,884.69	3/4	2,528.38	3/4	2,171.79
8		8	4,425.33	8	4,208.57	8	3,989.73	8	3,770.75	8	3,551.31	8	3,233.43	8	2,877.27	8	2,520.95	8	2,164.36
1/4		1/4	4,421.39	1/4	4,204.01	1/4	3,985.17	1/4	3,766.18	1/4	3,546.74	1/4	3,226.03	1/4	2,869.85	1/4	2,513.53	1/4	2,156.93
1/2		1/2	4,416.92	1/2	4,199.45	1/2	3,980.61	1/2	3,761.61	1/2	3,541.93	1/2	3,218.64	1/2	2,862.42	1/2	2,506.10	1/2	2,149.50
3/4		3/4	4,412.45	3/4	4,194.89	3/4	3,976.05	3/4	3,757.04	3/4	3,537.12	3/4	3,211.24	3/4	2,855.00	3/4	2,498.68	3/4	2,142.08
9		9	4,407.97	9	4,190.33	9	3,971.49	9	3,752.47	9	3,532.31	9	3,203.85	9	2,847.58	9	2,491.26	9	2,134.65
1/4		1/4	4,403.50	1/4	4,185.77	1/4	3,966.93	1/4	3,747.89	1/4	3,527.49	1/4	3,196.45	1/4	2,840.16	1/4	2,483.83	1/4	2,127.22
1/2		1/2	4,399.00	1/2	4,181.21	1/2	3,962.37	1/2	3,743.32	1/2	3,522.24	1/2	3,189.03	1/2	2,832.73	1/2	2,476.41	1/2	2,119.79
3/4		3/4	4,394.49	3/4	4,176.65	3/4	3,957.81	3/4	3,738.75	3/4	3,516.99	3/4	3,181.61	3/4	2,825.31	3/4	2,468.98	3/4	2,112.37
10		10	4,389.98	10	4,172.09	10	3,953.26	10	3,734.18	10	3,511.74	10	3,174.19	10	2,817.89	10	2,461.56	10	2,104.94
1/4		1/4	4,385.48	1/4	4,167.53	1/4	3,948.70	1/4	3,729.61	1/4	3,506.48	1/4	3,166.76	1/4	2,810.46	1/4	2,454.14	1/4	2,097.51
1/2		1/2	4,380.96	1/2	4,162.97	1/2	3,944.14	1/2	3,725.04	1/2	3,500.75	1/2	3,159.34	1/2	2,803.04	1/2	2,446.71	1/2	2,090.10
3/4		3/4	4,376.45	3/4	4,158.42	3/4	3,939.58	3/4	3,720.46	3/4	3,495.02	3/4	3,151.92	3/4	2,795.62	3/4	2,439.29	3/4	2,082.70
11		11	4,371.93	11	4,153.86	11	3,935.02	11	3,715.89	11	3,489.29	11	3,144.49	11	2,788.19	11	2,431.86	11	2,075.29
1/4		1/4	4,367.42	1/4	4,149.30	1/4	3,930.46	1/4	3,711.32	1/4	3,483.55	1/4	3,137.07	1/4	2,780.77	1/4	2,424.44	1/4	2,067.88
1/2		1/2	4,362.90	1/2	4,144.74	1/2	3,925.90	1/2	3,706.75	1/2	3,477.35	1/2	3,129.65	1/2	2,773.35	1/2	2,417.01	1/2	2,060.47
3/4		3/4	4,358.39	3/4	4,140.18	3/4	3,921.34	3/4	3,702.18	3/4	3,471.15	3/4	3,122.23	3/4	2,765.93	3/4	2,409.57	3/4	2,053.07

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 LIP OF 2" HERMETIC VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD.

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



BARGE "E2MS 311"

3 PORT ULLAGE TABLE HERMETIC GAUGE HEIGHT 15'-09 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	2,045.66	0	1,689.64	0	1,332.96	0	983.23	0	632.69	0	275.73	0	0	0	0	0	0	0	0
1/4	2,038.25	1/4	1,682.21	1/4	1,325.53	1/4	976.09	1/4	625.25	1/4	268.28	1/4	0	0	0	0	0	0	0
1/2	2,030.84	1/2	1,674.78	1/2	1,318.09	1/2	968.95	1/2	617.82	1/2	260.83	1/2	0	0	0	0	0	0	0
3/4	2,023.42	3/4	1,667.35	3/4	1,310.66	3/4	961.81	3/4	610.38	3/4	253.38	3/4	0	0	0	0	0	0	0
1	2,016.01	1	1,659.92	1	1,303.23	1	954.67	1	602.95	1	245.94	1	0	0	0	0	0	0	0
1/4	2,008.59	1/4	1,652.49	1/4	1,295.80	1/4	947.53	1/4	595.51	1/4	238.49	1/4	0	0	0	0	0	0	0
1/2	2,001.18	1/2	1,645.06	1/2	1,288.37	1/2	940.39	1/2	588.07	1/2	231.04	1/2	0	0	0	0	0	0	0
3/4	1,993.76	3/4	1,637.63	3/4	1,280.94	3/4	933.25	3/4	580.64	3/4	223.59	3/4	0	0	0	0	0	0	0
2	1,986.35	2	1,630.20	2	1,273.51	2	926.11	2	573.20	2	216.15	2	0	0	0	0	0	0	0
1/4	1,978.93	1/4	1,622.77	1/4	1,266.08	1/4	918.98	1/4	565.77	1/4	208.70	1/4	0	0	0	0	0	0	0
1/2	1,971.52	1/2	1,615.33	1/2	1,258.65	1/2	911.84	1/2	558.33	1/2	201.25	1/2	0	0	0	0	0	0	0
3/4	1,964.10	3/4	1,607.90	3/4	1,251.22	3/4	904.70	3/4	550.89	3/4	193.80	3/4	0	0	0	0	0	0	0
3	1,956.69	3	1,600.47	3	1,243.78	3	897.56	3	543.46	3	186.36	3	0	0	0	0	0	0	0
1/4	1,949.27	1/4	1,593.04	1/4	1,236.35	1/4	890.42	1/4	536.02	1/4	178.91	1/4	0	0	0	0	0	0	0
1/2	1,941.86	1/2	1,585.61	1/2	1,228.92	1/2	883.28	1/2	528.59	1/2	171.46	1/2	0	0	0	0	0	0	0
3/4	1,934.44	3/4	1,578.18	3/4	1,221.49	3/4	876.14	3/4	521.15	3/4	164.01	3/4	0	0	0	0	0	0	0
4	1,927.03	4	1,570.75	4	1,214.06	4	869.00	4	513.71	4	156.56	4	0	0	0	0	0	0	0
1/4	1,919.61	1/4	1,563.32	1/4	1,206.63	1/4	861.86	1/4	506.28	1/4	149.12	1/4	0	0	0	0	0	0	0
1/2	1,912.20	1/2	1,555.89	1/2	1,199.20	1/2	854.70	1/2	498.84	1/2	141.67	1/2	0	0	0	0	0	0	0
3/4	1,904.79	3/4	1,548.46	3/4	1,191.77	3/4	847.53	3/4	491.41	3/4	134.22	3/4	0	0	0	0	0	0	0
5	1,897.37	5	1,541.02	5	1,184.34	5	840.37	5	483.97	5	126.78	5	0	0	0	0	0	0	0
1/4	1,889.96	1/4	1,533.59	1/4	1,176.91	1/4	833.21	1/4	476.53	1/4	119.33	1/4	0	0	0	0	0	0	0
1/2	1,882.54	1/2	1,526.16	1/2	1,169.68	1/2	825.84	1/2	469.10	1/2	111.89	1/2	0	0	0	0	0	0	0
3/4	1,875.13	3/4	1,518.73	3/4	1,162.46	3/4	818.46	3/4	461.66	3/4	104.46	3/4	0	0	0	0	0	0	0
6	1,867.71	6	1,511.30	6	1,155.23	6	811.09	6	454.23	6	97.02	6	0	0	0	0	0	0	0
1/4	1,860.30	1/4	1,503.87	1/4	1,148.01	1/4	803.72	1/4	446.79	1/4	89.58	1/4	0	0	0	0	0	0	0
1/2	1,852.88	1/2	1,496.44	1/2	1,140.80	1/2	796.28	1/2	439.35	1/2	82.17	1/2	0	0	0	0	0	0	0
3/4	1,845.47	3/4	1,489.01	3/4	1,133.59	3/4	788.85	3/4	431.92	3/4	74.76	3/4	0	0	0	0	0	0	0
7	1,838.05	7	1,481.58	7	1,126.38	7	781.41	7	424.48	7	67.35	7	0	0	0	0	0	0	0
1/4	1,830.64	1/4	1,474.15	1/4	1,119.17	1/4	773.97	1/4	417.05	1/4	59.94	1/4	0	0	0	0	0	0	0
1/2	1,823.22	1/2	1,466.71	1/2	1,111.96	1/2	766.54	1/2	409.61	1/2	53.42	1/2	0	0	0	0	0	0	0
3/4	1,815.81	3/4	1,459.28	3/4	1,104.75	3/4	759.10	3/4	402.17	3/4	46.91	3/4	0	0	0	0	0	0	0
8	1,808.39	8	1,451.85	8	1,097.54	8	751.67	8	394.74	8	40.39	8	0	0	0	0	0	0	0
1/4	1,800.98	1/4	1,444.42	1/4	1,090.33	1/4	744.23	1/4	387.30	1/4	33.88	1/4	0	0	0	0	0	0	0
1/2	1,793.56	1/2	1,436.99	1/2	1,083.19	1/2	736.79	1/2	379.87	1/2	29.22	1/2	0	0	0	0	0	0	0
3/4	1,786.15	3/4	1,429.56	3/4	1,076.05	3/4	729.36	3/4	372.43	3/4	24.57	3/4	0	0	0	0	0	0	0
9	1,778.74	9	1,422.13	9	1,068.91	9	721.92	9	364.99	9	19.91	9	0	0	0	0	0	0	0
1/4	1,771.32	1/4	1,414.70	1/4	1,061.77	1/4	714.49	1/4	357.56	1/4	15.26	1/4	0	0	0	0	0	0	0
1/2	1,763.91	1/2	1,407.27	1/2	1,054.63	1/2	707.05	1/2	350.12	1/2	0	1/2	0	0	0	0	0	0	0
3/4	1,756.49	3/4	1,399.84	3/4	1,047.49	3/4	699.61	3/4	342.69	3/4	0	3/4	0	0	0	0	0	0	0
10	1,749.08	10	1,392.40	10	1,040.35	10	692.18	10	335.25	10	0	10	0	0	0	0	0	0	0
1/4	1,741.66	1/4	1,384.97	1/4	1,033.21	1/4	684.74	1/4	327.81	1/4	0	1/4	0	0	0	0	0	0	0
1/2	1,734.23	1/2	1,377.54	1/2	1,026.07	1/2	677.31	1/2	320.38	1/2	0	1/2	0	0	0	0	0	0	0
3/4	1,726.80	3/4	1,370.11	3/4	1,018.93	3/4	669.87	3/4	312.94	3/4	0	3/4	0	0	0	0	0	0	0
11	1,719.37	11	1,362.68	11	1,011.79	11	662.43	11	305.51	11	0	11	0	0	0	0	0	0	0
1/4	1,711.94	1/4	1,355.25	1/4	1,004.65	1/4	655.00	1/4	298.07	1/4	0	1/4	0	0	0	0	0	0	0
1/2	1,704.51	1/2	1,347.82	1/2	997.51	1/2	647.56	1/2	290.62	1/2	0	1/2	0	0	0	0	0	0	0
3/4	1,697.08	3/4	1,340.39	3/4	990.37	3/4	640.13	3/4	283.17	3/4	0	3/4	0	0	0	0	0	0	0

STRAPPED: 07/18/2018 CL
CALCULATED: 07/19/2018 CL
PRINTED: 07/20/2018 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2018

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "E2MS 311"

3 STBD

ULLAGE TABLE

HERMETIC

GAUGE HEIGHT 15'-08 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	4,369.66	0	4,151.07	0	3,931.97	0	3,712.50	0	3,475.79	0	3,122.60	0	2,765.23	0	2,407.78
1/4		1/4		1/4	4,365.15	1/4	4,146.50	1/4	3,927.40	1/4	3,707.93	1/4	3,469.09	1/4	3,115.16	1/4	2,757.78	1/4	2,400.32
1/2		1/2		1/2	4,360.63	1/2	4,141.94	1/2	3,922.84	1/2	3,703.35	1/2	3,462.39	1/2	3,107.71	1/2	2,750.34	1/2	2,392.87
3/4		3/4		3/4	4,356.11	3/4	4,137.38	3/4	3,918.27	3/4	3,698.77	3/4	3,455.69	3/4	3,100.27	3/4	2,742.89	3/4	2,385.41
1		1		1	4,351.59	1	4,132.81	1	3,913.71	1	3,694.20	1	3,448.52	1	3,092.82	1	2,735.45	1	2,377.96
1/4		1/4		1/4	4,347.07	1/4	4,128.25	1/4	3,909.15	1/4	3,689.62	1/4	3,441.34	1/4	3,085.38	1/4	2,728.00	1/4	2,370.50
1/2		1/2		1/2	4,342.55	1/2	4,123.68	1/2	3,904.58	1/2	3,685.04	1/2	3,434.17	1/2	3,077.93	1/2	2,720.56	1/2	2,363.05
3/4		3/4		3/4	4,338.03	3/4	4,119.12	3/4	3,900.02	3/4	3,680.47	3/4	3,426.99	3/4	3,070.49	3/4	2,713.11	3/4	2,355.59
2		2		2	4,333.52	2	4,114.55	2	3,895.45	2	3,675.89	2	3,419.59	2	3,063.04	2	2,705.67	2	2,348.14
1/4		1/4		1/4	4,329.00	1/4	4,109.99	1/4	3,890.89	1/4	3,671.31	1/4	3,412.18	1/4	3,055.60	1/4	2,698.22	1/4	2,340.68
1/2		1/2		1/2	4,324.48	1/2	4,105.42	1/2	3,886.32	1/2	3,666.73	1/2	3,404.78	1/2	3,048.15	1/2	2,690.78	1/2	2,333.22
3/4		3/4		3/4	4,319.96	3/4	4,100.86	3/4	3,881.76	3/4	3,662.16	3/4	3,397.38	3/4	3,040.70	3/4	2,683.33	3/4	2,325.77
3		3		3	4,315.39	3	4,096.29	3	3,877.19	3	3,657.58	3	3,389.96	3	3,033.26	3	2,675.89	3	2,318.31
1/4		1/4		1/4	4,310.83	1/4	4,091.73	1/4	3,872.63	1/4	3,653.00	1/4	3,382.55	1/4	3,025.81	1/4	2,668.44	1/4	2,310.86
1/2		1/2		1/2	4,306.27	1/2	4,087.16	1/2	3,868.06	1/2	3,648.43	1/2	3,375.14	1/2	3,018.37	1/2	2,660.99	1/2	2,303.40
3/4		3/4		3/4	4,301.70	3/4	4,082.60	3/4	3,863.50	3/4	3,643.85	3/4	3,367.72	3/4	3,010.92	3/4	2,653.55	3/4	2,295.95
4		4		4	4,297.14	4	4,078.04	4	3,858.93	4	3,639.27	4	3,360.31	4	3,003.48	4	2,646.10	4	2,288.49
1/4		1/4		1/4	4,292.57	1/4	4,073.47	1/4	3,854.37	1/4	3,634.69	1/4	3,352.89	1/4	2,996.03	1/4	2,638.66	1/4	2,281.04
1/2		1/2		1/2	4,288.01	1/2	4,068.91	1/2	3,849.81	1/2	3,630.12	1/2	3,345.47	1/2	2,988.59	1/2	2,631.21	1/2	2,273.58
3/4		3/4		3/4	4,283.44	3/4	4,064.34	3/4	3,845.24	3/4	3,625.54	3/4	3,338.06	3/4	2,981.14	3/4	2,623.76	3/4	2,266.12
5		5		5	4,278.88	5	4,059.78	5	3,840.66	5	3,620.96	5	3,330.64	5	2,973.70	5	2,616.32	5	2,258.67
1/4		1/4		1/4	4,274.31	1/4	4,055.21	1/4	3,836.09	1/4	3,616.39	1/4	3,323.22	1/4	2,966.25	1/4	2,608.87	1/4	2,251.21
1/2		1/2		1/2	4,269.75	1/2	4,050.65	1/2	3,831.51	1/2	3,611.81	1/2	3,315.81	1/2	2,958.81	1/2	2,601.43	1/2	2,243.76
3/4		3/4	4,474.83	3/4	4,265.18	3/4	4,046.08	3/4	3,826.93	3/4	3,607.23	3/4	3,308.39	3/4	2,951.36	3/4	2,593.98	3/4	2,236.30
6		6	4,471.64	6	4,260.62	6	4,041.52	6	3,822.36	6	3,602.65	6	3,300.97	6	2,943.92	6	2,586.53	6	2,228.85
1/4		1/4	4,468.46	1/4	4,256.05	1/4	4,036.95	1/4	3,817.78	1/4	3,598.08	1/4	3,293.56	1/4	2,936.47	1/4	2,579.09	1/4	2,221.39
1/2		1/2	4,465.27	1/2	4,251.49	1/2	4,032.39	1/2	3,813.20	1/2	3,593.50	1/2	3,286.14	1/2	2,929.03	1/2	2,571.64	1/2	2,213.93
3/4		3/4	4,462.09	3/4	4,246.93	3/4	4,027.82	3/4	3,808.62	3/4	3,588.92	3/4	3,278.72	3/4	2,921.58	3/4	2,564.20	3/4	2,206.48
7		7	4,458.14	7	4,242.36	7	4,023.26	7	3,804.05	7	3,584.35	7	3,271.31	7	2,914.13	7	2,556.75	7	2,199.02
1/4		1/4	4,454.19	1/4	4,237.80	1/4	4,018.70	1/4	3,799.47	1/4	3,579.77	1/4	3,263.89	1/4	2,906.69	1/4	2,549.30	1/4	2,191.57
1/2		1/2	4,450.24	1/2	4,233.23	1/2	4,014.13	1/2	3,794.89	1/2	3,575.19	1/2	3,256.48	1/2	2,899.24	1/2	2,541.86	1/2	2,184.11
3/4		3/4	4,446.30	3/4	4,228.67	3/4	4,009.57	3/4	3,790.32	3/4	3,570.61	3/4	3,249.06	3/4	2,891.80	3/4	2,534.41	3/4	2,176.66
8		8	4,441.82	8	4,224.10	8	4,005.00	8	3,785.74	8	3,565.80	8	3,241.64	8	2,884.35	8	2,526.97	8	2,169.20
1/4		1/4	4,437.34	1/4	4,219.54	1/4	4,000.44	1/4	3,781.16	1/4	3,560.98	1/4	3,234.23	1/4	2,876.91	1/4	2,519.52	1/4	2,161.75
1/2		1/2	4,432.86	1/2	4,214.97	1/2	3,995.87	1/2	3,776.58	1/2	3,556.16	1/2	3,226.81	1/2	2,869.46	1/2	2,512.07	1/2	2,154.29
3/4		3/4	4,428.39	3/4	4,210.41	3/4	3,991.31	3/4	3,772.01	3/4	3,551.35	3/4	3,219.39	3/4	2,862.02	3/4	2,504.63	3/4	2,146.83
9		9	4,423.88	9	4,205.84	9	3,986.74	9	3,767.43	9	3,546.09	9	3,211.95	9	2,854.57	9	2,497.18	9	2,139.38
1/4		1/4	4,419.36	1/4	4,201.28	1/4	3,982.18	1/4	3,762.85	1/4	3,540.83	1/4	3,204.50	1/4	2,847.13	1/4	2,489.74	1/4	2,131.92
1/2		1/2	4,414.85	1/2	4,196.72	1/2	3,977.61	1/2	3,758.28	1/2	3,535.57	1/2	3,197.06	1/2	2,839.68	1/2	2,482.29	1/2	2,124.47
3/4		3/4	4,410.34	3/4	4,192.15	3/4	3,973.05	3/4	3,753.70	3/4	3,530.31	3/4	3,189.61	3/4	2,832.24	3/4	2,474.84	3/4	2,117.01
10		10	4,405.82	10	4,187.59	10	3,968.49	10	3,749.12	10	3,524.57	10	3,182.17	10	2,824.79	10	2,467.40	10	2,109.56
1/4		1/4	4,401.30	1/4	4,183.02	1/4	3,963.92	1/4	3,744.54	1/4	3,518.83	1/4	3,174.72	1/4	2,817.35	1/4	2,459.95	1/4	2,102.10
1/2		1/2	4,396.78	1/2	4,178.46	1/2	3,959.36	1/2	3,739.97	1/2	3,513.10	1/2	3,167.27	1/2	2,809.90	1/2	2,452.50	1/2	2,094.65
3/4		3/4	4,392.27	3/4	4,173.89	3/4	3,954.79	3/4	3,735.39	3/4	3,507.36	3/4	3,159.83	3/4	2,802.46	3/4	2,445.06	3/4	2,087.19
11		11	4,387.75	11	4,169.33	11	3,950.23	11	3,730.81	11	3,501.14	11	3,152.38	11	2,795.01	11	2,437.60	11	2,079.73
1/4		1/4	4,383.22	1/4	4,164.76	1/4	3,945.66	1/4	3,726.24	1/4	3,494.92	1/4	3,144.94	1/4	2,787.56	1/4	2,430.15	1/4	2,072.28
1/2		1/2	4,378.70	1/2	4,160.20	1/2	3,941.10	1/2	3,721.66	1/2	3,488.70	1/2	3,137.49	1/2	2,780.12	1/2	2,422.69	1/2	2,064.82
3/4		3/4	4,374.18	3/4	4,155.63	3/4	3,936.53	3/4	3,717.08	3/4	3,482.48	3/4	3,130.05	3/4	2,772.67	3/4	2,415.24	3/4	2,057.37

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 LIP OF 2" HERMETIC VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD.

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





BARGE "E2MS 311"

3 STBD

ULLAGE TABLE
HERMETIC

GAUGE HEIGHT 15'-08 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	2,049.91	0	1,692.04	0	1,334.17	0	976.60	0	618.96	0	261.10	0		0		0			
1/4	2,042.46	1/4	1,684.59	1/4	1,326.72	1/4	969.16	1/4	611.50	1/4	253.64	1/4		1/4		1/4		1/4	
1/2	2,035.00	1/2	1,677.13	1/2	1,319.26	1/2	961.72	1/2	604.05	1/2	246.19	1/2		1/2		1/2		1/2	
3/4	2,027.54	3/4	1,669.68	3/4	1,311.81	3/4	954.28	3/4	596.59	3/4	238.73	3/4		3/4		3/4		3/4	
1	2,020.09	1	1,662.22	1	1,304.35	1	946.84	1	589.14	1	231.28	1		1		1		1	
1/4	2,012.63	1/4	1,654.76	1/4	1,296.90	1/4	939.40	1/4	581.68	1/4	223.82	1/4		1/4		1/4		1/4	
1/2	2,005.18	1/2	1,647.31	1/2	1,289.44	1/2	931.96	1/2	574.23	1/2	216.37	1/2		1/2		1/2		1/2	
3/4	1,997.72	3/4	1,639.85	3/4	1,281.98	3/4	924.51	3/4	566.77	3/4	208.91	3/4		3/4		3/4		3/4	
2	1,990.27	2	1,632.40	2	1,274.53	2	917.07	2	559.32	2	201.46	2		2		2		2	
1/4	1,982.81	1/4	1,624.94	1/4	1,267.07	1/4	909.63	1/4	551.86	1/4	194.00	1/4		1/4		1/4		1/4	
1/2	1,975.36	1/2	1,617.49	1/2	1,259.62	1/2	902.19	1/2	544.41	1/2	186.55	1/2		1/2		1/2		1/2	
3/4	1,967.90	3/4	1,610.03	3/4	1,252.16	3/4	894.75	3/4	536.95	3/4	179.09	3/4		3/4		3/4		3/4	
3	1,960.44	3	1,602.58	3	1,244.71	3	887.31	3	529.49	3	171.64	3		3		3		3	
1/4	1,952.99	1/4	1,595.12	1/4	1,237.25	1/4	879.87	1/4	522.04	1/4	164.18	1/4		1/4		1/4		1/4	
1/2	1,945.53	1/2	1,587.66	1/2	1,229.80	1/2	872.43	1/2	514.58	1/2	156.72	1/2		1/2		1/2		1/2	
3/4	1,938.08	3/4	1,580.21	3/4	1,222.34	3/4	864.99	3/4	507.13	3/4	149.27	3/4		3/4		3/4		3/4	
4	1,930.62	4	1,572.75	4	1,214.88	4	857.53	4	499.67	4	141.81	4		4		4		4	
1/4	1,923.17	1/4	1,565.30	1/4	1,207.43	1/4	850.08	1/4	492.22	1/4	134.36	1/4		1/4		1/4		1/4	
1/2	1,915.71	1/2	1,557.84	1/2	1,199.97	1/2	842.62	1/2	484.76	1/2	126.91	1/2		1/2		1/2		1/2	
3/4	1,908.26	3/4	1,550.39	3/4	1,192.52	3/4	835.17	3/4	477.31	3/4	119.45	3/4		3/4		3/4		3/4	
5	1,900.80	5	1,542.93	5	1,185.06	5	827.71	5	469.85	5	112.01	5		5		5		5	
1/4	1,893.34	1/4	1,535.48	1/4	1,177.61	1/4	820.25	1/4	462.40	1/4	104.56	1/4		1/4		1/4		1/4	
1/2	1,885.89	1/2	1,528.02	1/2	1,170.15	1/2	812.80	1/2	454.94	1/2	97.12	1/2		1/2		1/2		1/2	
3/4	1,878.43	3/4	1,520.56	3/4	1,162.70	3/4	805.34	3/4	447.48	3/4	89.67	3/4		3/4		3/4		3/4	
6	1,870.98	6	1,513.11	6	1,155.25	6	797.89	6	440.03	6	82.25	6		6		6		6	
1/4	1,863.52	1/4	1,505.65	1/4	1,147.80	1/4	790.43	1/4	432.57	1/4	74.84	1/4		1/4		1/4		1/4	
1/2	1,856.07	1/2	1,498.20	1/2	1,140.35	1/2	782.98	1/2	425.12	1/2	67.42	1/2		1/2		1/2		1/2	
3/4	1,848.61	3/4	1,490.74	3/4	1,132.90	3/4	775.52	3/4	417.66	3/4	60.00	3/4		3/4		3/4		3/4	
7	1,841.15	7	1,483.29	7	1,125.45	7	768.07	7	410.21	7	53.48	7		7		7		7	
1/4	1,833.70	1/4	1,475.83	1/4	1,118.00	1/4	760.61	1/4	402.75	1/4	46.95	1/4		1/4		1/4		1/4	
1/2	1,826.24	1/2	1,468.37	1/2	1,110.55	1/2	753.16	1/2	395.30	1/2	40.43	1/2		1/2		1/2		1/2	
3/4	1,818.79	3/4	1,460.92	3/4	1,103.10	3/4	745.70	3/4	387.84	3/4	33.91	3/4		3/4		3/4		3/4	
8	1,811.33	8	1,453.46	8	1,095.66	8	738.25	8	380.39	8	29.25	8		8		8		8	
1/4	1,803.88	1/4	1,446.01	1/4	1,088.21	1/4	730.79	1/4	372.93	1/4	24.59	1/4		1/4		1/4		1/4	
1/2	1,796.42	1/2	1,438.55	1/2	1,080.77	1/2	723.33	1/2	365.48	1/2	19.93	1/2		1/2		1/2		1/2	
3/4	1,788.97	3/4	1,431.10	3/4	1,073.33	3/4	715.88	3/4	358.02	3/4	15.28	3/4		3/4		3/4		3/4	
9	1,781.51	9	1,423.64	9	1,065.89	9	708.42	9	350.56	9		9		9		9		9	
1/4	1,774.05	1/4	1,416.19	1/4	1,058.45	1/4	700.97	1/4	343.11	1/4		1/4		1/4		1/4		1/4	
1/2	1,766.60	1/2	1,408.73	1/2	1,051.01	1/2	693.51	1/2	335.65	1/2		1/2		1/2		1/2		1/2	
3/4	1,759.14	3/4	1,401.27	3/4	1,043.57	3/4	686.06	3/4	328.20	3/4		3/4		3/4		3/4		3/4	
10	1,751.69	10	1,393.82	10	1,036.13	10	678.60	10	320.74	10		10		10		10		10	
1/4	1,744.23	1/4	1,386.36	1/4	1,028.69	1/4	671.15	1/4	313.29	1/4		1/4		1/4		1/4		1/4	
1/2	1,736.78	1/2	1,378.91	1/2	1,021.25	1/2	663.69	1/2	305.83	1/2		1/2		1/2		1/2		1/2	
3/4	1,729.32	3/4	1,371.45	3/4	1,013.81	3/4	656.24	3/4	298.38	3/4		3/4		3/4		3/4		3/4	
11	1,721.87	11	1,364.00	11	1,006.36	11	648.78	11	290.92	11		11		11		11		11	
1/4	1,714.41	1/4	1,356.54	1/4	998.92	1/4	641.33	1/4	283.47	1/4		1/4		1/4		1/4		1/4	
1/2	1,706.95	1/2	1,349.09	1/2	991.48	1/2	633.87	1/2	276.01	1/2		1/2		1/2		1/2		1/2	
3/4	1,699.50	3/4	1,341.63	3/4	984.04	3/4	626.41	3/4	268.56	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/18/2018 CL
CALCULATED: 07/19/2018 CL
PRINTED: 07/20/2018 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2018

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