BARGE "E2MS 313"

INNAGE (HERMETIC)

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	BOW	STERN	BOW	STERN	BOW	STERN	BOW	STERN	BOW	STERN	BOW	STERN
1 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
1 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
2 PORT	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8
2 STBD	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8
3 PORT	- 00-0/8	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 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

(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"

January 11, 2019

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

http://www.pmacorp.net

BARGE "E2MS 313"

1 PORT

INNAGE 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	15.27	0	303.40	0	652.60	0	1,008.56	0	1,365.69	0	1,723.50	0	2,081.32	0	2,439.14	0	2,796.90	0	3,154.62
1/4	18.31	1/4	310.29	1/4	660.05	1/4	1,015.95	1/4	1,373.14	1/4	1,730.96	1/4	2,088.78	1/4	2,446.59	1/4	2,804.35	1/4	3,162.07
1/2	21.36	1/2	317.17	1/2	667.51	1/2	1,023.35	1/2	1,380.60	1/2	1,738.41	1/2	2,096.23	1/2	2,454.05	1/2	2,811.80	1/2	3,169.52
3/4	24.40	3/4	324.06	3/4	674.96	3/4	1,030.75	3/4	1,388.05	3/4	1,745.87	3/4	2,103.68	3/4	2,461.50	3/4	2,819.25	3/4	3,176.97
1	27.44	1	330.94	1	682.41	1	1,038.14	1	1,395.51	1	1,753.32	1	2,111.14	1	2,468.95	1	2,826.71	1	3,184.43
1/4	32.43	1/4	337.92	1/4	689.87	1/4	1,045.55	1/4	1,402.96	1/4	1,760.78	1/4	2,118.59	1/4	2,476.41	1/4	2,834.16	1/4	3,191.88
1/2	37.42	1/2	344.89	1/2	697.32	1/2	1,052.95	1/2	1,410.42	1/2	1,768.23	1/2	2,126.05	1/2	2,483.86	1/2	2,841.61	1/2	3,199.33
3/4	42.41	3/4	351.86	3/4	704.78	3/4	1,060.36	3/4	1,417.87	3/4	1,775.69	3/4	2,133.50	3/4	2,491.32	3/4	2,849.06	3/4	3,206.78
2	47.40	2	358.84	2	712.23	2	1,067.76	2	1,425.32	2	1,783.14	2	2,140.96	2	2,498.77	2	2,856.52	2	3,214.24
1/4	53.37	1/4	365.90	1/4	719.69	1/4	1,075.18	1/4	1,432.78	1/4	1,790.60	1/4	2,148.41	1/4	2,506.23	1/4	2,863.97	1/4	3,221.69
1/2	59.35	1/2	372.96	1/2	727.14	1/2	1,082.61	1/2	1,440.23	1/2	1,798.05	1/2	2,155.87	1/2	2,513.68	1/2	2,871.42	1/2	3,229.14
3/4	65.32	3/4	380.02	3/4	734.59	3/4	1,090.03	3/4	1,447.69	3/4	1,805.50	3/4	2,163.32	3/4	2,521.14	3/4	2,878.87	3/4	3,236.59
3	71.30	3	387.08	3	742.05	3	1,097.45	3	1,455.14	3	1,812.96	3	2,170.77	3	2,528.59	3	2,886.33	3	3,244.05
1/4	77.39	1/4	394.23	1/4	749.50	1/4	1,104.88	1/4	1,462.60	1/4	1,820.41	1/4	2,178.23	1/4	2,536.05	1/4	2,893.78	1/4	3,251.50
1/2	83.48	1/2	401.38	1/2	756.96	1/2	1,112.30	1/2	1,470.05	1/2	1,827.87	1/2	2,185.68	1/2	2,543.50	1/2	2,901.23	1/2	3,258.95
3/4	89.56	3/4	408.53	3/4	764.41	3/4	1,119.72	3/4	1,477.51	3/4	1,835.32	3/4	2,193.14	3/4	2,550.95	3/4	2,908.68	3/4	3,266.40
4	95.65	4	415.67	4	771.87	4	1,127.14	4	1,484.96	4	1,842.78	4	2,200.59	4	2,558.41	4	2,916.14	4	3,273.86
1/4	101.84	1/4	422.91	1/4	779.27	1/4	1,134.60	1/4	1,492.42	1/4	1,850.23	1/4	2,208.05	1/4	2,565.86	1/4	2,923.59	1/4	3,281.31
1/2	108.02	1/2	430.15	1/2	786.67	1/2	1,142.05	1/2	1,499.87	1/2	1,857.69	1/2	2,215.50	1/2	2,573.32	1/2	2,931.04	1/2	3,288.76
3/4	114.21	3/4	437.38	3/4	794.08	3/4	1,149.51	3/4	1,507.32	3/4	1,865.14	3/4	2,222.96	3/4	2,580.77	3/4	2,938.49	3/4	3,296.21
5	120.39	5	444.62	5	801.48	5	1,156.96	5	1,514.78	5	1,872.59	5	2,230.41	5	2,588.23	5	2,945.95	5	3,303.67
1/4	126.67	1/4	451.94	1/4	808.88	1/4	1,164.42	1/4	1,522.23	1/4	1,880.05	1/4	2,237.87	1/4	2,595.68	1/4	2,953.40	1/4	3,311.12
1/2	132.94	1/2	459.26	1/2	816.27	1/2	1,171.87	1/2	1,529.69	1/2	1,887.50	1/2	2,245.32	1/2	2,603.13	1/2	2,960.85	1/2	3,318.57
3/4	139.21	3/4	466.59	3/4	823.67	3/4	1,179.33	3/4	1,537.14	3/4	1,894.96	3/4	2,252.77	3/4	2,610.58	3/4	2,968.30	3/4	3,326.02
6	145.49	6	473.91	6	831.06	6	1,186.78	6	1,544.60	6	1,902.41	6	2,260.23	6	2,618.04	6	2,975.76	6	3,333.48
1/4	151.85	1/4	481.32	1/4	838.46	1/4	1,194.24	1/4	1,552.05	1/4	1,909.87	1/4	2,267.68	1/4	2,625.49	1/4	2,983.21	1/4	3,340.93
1/2	158.21	1/2	488.73	1/2	845.86	1/2	1,201.69	1/2	1,559.51	1/2	1,917.32	1/2	2,275.14	1/2	2,632.94	1/2	2,990.66	1/2	3,348.38
3/4	164.57	3/4	496.14	3/4	853.25	3/4	1,209.14	3/4	1,566.96	3/4	1,924.78	3/4	2,282.59	3/4	2,640.39	3/4	2,998.11	3/4	3,355.83
7	170.93	7	503.55	7	860.65	7	1,216.60	7	1,574.41	7	1,932.23	7	2,290.05	7	2,647.85	7	3,005.57	7	3,363.29
1/4	177.38	1/4	511.01	1/4	868.04	1/4	1,224.05	1/4	1,581.87	1/4	1,939.69	1/4	2,297.50	1/4	2,655.30	1/4	3,013.02	1/4	3,370.74
1/2	183.83	1/2	518.46	1/2	875.44	1/2	1,231.51	1/2	1,589.32	1/2	1,947.14	1/2	2,304.96	1/2	2,662.75	1/2	3,020.47	1/2	3,378.19
3/4	190.28	3/4	525.92	3/4	882.83	3/4	1,238.96	3/4	1,596.78	3/4	1,954.59	3/4	2,312.41	3/4	2,670.20	3/4	3,027.92	3/4	3,385.64
8	196.72	8	533.37	8	890.23	8	1,246.42	8	1,604.23	8	1,962.05	8	2,319.86	8	2,677.66	8	3,035.38	8	3,393.10
1/4	203.26	1/4	540.82	1/4	897.63	1/4	1,253.87	1/4	1,611.69	1/4	1,969.50	1/4	2,327.32	1/4	2,685.11	1/4	3,042.83	1/4	3,400.55
1/2	209.80	1/2	548.27	1/2	905.02	1/2	1,261.33	1/2	1,619.14	1/2	1,976.96	1/2	2,334.77	1/2	2,692.56	1/2	3,050.28	1/2	3,408.00
3/4	216.33	3/4	555.72	3/4	912.42	3/4	1,268.78	3/4	1,626.60	3/4	1,984.41	3/4	2,342.23	3/4	2,700.01	3/4	3,057.73	3/4	3,415.45
9	222.87	9	563.17	9	919.81	9	1,276.23	9	1,634.05	9	1,991.87	9	2,349.68	9	2,707.47	9	3,065.19	9	3,422.91
1/4	229.49	1/4	570.62	1/4	927.21	1/4	1,283.69	1/4	1,641.51	1/4	1,999.32	1/4	2,357.14	1/4	2,714.92	1/4	3,072.64	1/4	3,430.36
1/2	236.12	1/2	578.06	1/2	934.60	1/2	1,291.14	1/2	1,648.96	1/2	2,006.78	1/2	2,364.59	1/2	2,722.37	1/2	3,080.09	1/2	3,437.81
3/4	242.74	3/4	585.51	3/4	942.00	3/4	1,298.60	3/4	1,656.41	3/4	2,014.23	3/4	2,372.05	3/4	2,729.82	3/4	3,087.54	3/4	3,445.26
10	249.36	10	592.96	10	949.39	10	1,306.05	10	1,663.87	10	2,021.68	10	2,379.50	10	2,737.28	10	3,095.00	10	3,452.72
1/4	256.07	1/4	600.42	1/4	956.79	1/4	1,313.51	1/4	1,671.32	1/4	2,029.14	1/4	2,386.96	1/4	2,744.73	1/4	3,102.45	1/4	3,460.17
1/2	262.79	1/2	607.87	1/2	964.19	1/2	1,320.96	1/2	1,678.78	1/2	2,036.59	1/2	2,394.41	1/2	2,752.18	1/2	3,109.90	1/2	3,467.62
3/4	269.50	3/4	615.33	3/4	971.58	3/4	1,328.42	3/4	1,686.23	3/4	2,044.05	3/4	2,401.86	3/4	2,759.63	3/4	3,117.35	3/4	3,475.07
11	276.21	11	622.78	11	978.98	11	1,335.87	11	1,693.69	11	2,051.50	11	2,409.32	11	2,767.09	11	3,124.81	11	3,482.53
1/4	283.01	1/4	630.23	1/4	986.37	1/4	1,343.33	1/4	1,701.14	1/4	2,058.96	1/4	2,416.77	1/4	2,774.54	1/4	3,132.26	1/4	3,489.98
1/2	289.80	1/2	637.69	1/2	993.77	1/2	1,350.78	1/2	1,708.60	1/2	2,066.41	1/2	2,424.23	1/2	2,781.99	1/2	3,139.71	1/2	3,497.43
3/4	296.60	3/4	645.14	3/4	1,001.16	3/4	1,358.23	3/4	1,716.05	3/4	2,073.87	3/4	2,431.68	3/4	2,789.44	3/4	3,147.16	3/4	3,504.88

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'-03" FORWARD OF AFT BULKHEAD.

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

BARGE "E2MS 313"

1 PORT

INNAGE TABLE

HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09"

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	3,512.34	0	3,870.06	0	4,227.08	0	4,583.74	0	4,938.60	0		0		0		0		0	
1/4	3,519.79	1/4	3,877.51	1/4	4,234.51	1/4	4,591.18	1/4	4,945.89	1/4		1/4		1/4		1/4		1/4	
1/2	3,527.24	1/2	3,884.96	1/2	4,241.94	1/2	4,598.61	1/2	4,953.18	1/2		1/2		1/2		1/2		1/2	
3/4	3,534.69	3/4	3,892.41	3/4	4,249.37	3/4	4,606.04	3/4	4,960.47	3/4		3/4		3/4		3/4		3/4	
1	3,542.15	1	3,899.87	1	4,256.80	1	4,613.47	1	4,967.76	1		1		1		1		1	
1/4	3,549.60	1/4	3,907.32	1/4	4,264.23	1/4	4,620.90	1/4	4,974.18	1/4		1/4		1/4		1/4		1/4	
1/2	3,557.05	1/2	3,914.77	1/2	4,271.66	1/2	4,628.33	1/2	4,980.61	1/2		1/2		1/2		1/2		1/2	
3/4	3,564.50	3/4	3,922.22	3/4	4,279.09	3/4	4,635.76	3/4	4,987.04	3/4		3/4		3/4		3/4		3/4	
2	3,571.96	2	3,929.68	2	4,286.52	2	4,643.19	2	4,993.47	2		2		2		2		2	
1/4	3,579.41	1/4	3,937.13	1/4	4,293.95	1/4	4,650.62	1/4	4,998.65	1/4		1/4		1/4		1/4		1/4	
1/2	3,586.86	1/2	3,944.58	1/2	4,301.38	1/2	4,658.05	1/2	5,003.84	1/2		1/2		1/2		1/2		1/2	
3/4	3,594.31	3/4	3,952.03	3/4	4,308.81	3/4	4,665.48	3/4	5,009.02	3/4		3/4		3/4		3/4		3/4	
3	3,601.77	3	3,959.49	3	4,316.24	3	4,672.91	3	5,014.21	3		3		3		3		3	
1/4	3,609.22	1/4	3,966.94	1/4	4,323.67	1/4	4,680.34	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,616.67	1/2	3,974.39	1/2	4,331.10	1/2	4,687.77	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,624.12	3/4	3,981.84	3/4	4,338.54	3/4	4,695.20	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,631.58	4	3,989.30	4	4,345.97	4	4,702.63	4		4		4		4		4		4	
1/4	3,639.03	1/4	3,996.73	1/4	4,353.40	1/4	4,710.07	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,646.48	1/2	4,004.16	1/2	4,360.83	1/2	4,717.50	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,653.93	3/4	4,011.59	3/4	4,368.26	3/4	4,724.93	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,661.39	5	4,019.02	5	4,375.69	5	4,732.36	5		5		5		5		5		5	
1/4	3,668.84	1/4	4,026.45	1/4	4,383.12	1/4	4,739.79	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,676.29	1/2	4,033.88	1/2	4,390.55	1/2	4,747.22	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,683.74	3/4	4,041.31	3/4	4,397.98	3/4	4,754.65	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,691.20	6	4,048.74	6	4,405.41	6	4,762.08	6		6		6		6		6		6	
1/4	3,698.65	1/4	4,056.17	1/4	4,412.84	1/4	4,769.44	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,706.10	1/2	4,063.60	1/2	4,420.27	1/2	4,776.79	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,713.55	3/4	4,071.03	3/4	4,427.70	3/4	4,784.15	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,721.01	7	4,078.46	7	4,435.13	7	4,791.51	7		7		7		7		7		7	
1/4	3,728.46	1/4	4,085.89	1/4	4,442.56	1/4	4,798.87	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,735.91	1/2	4,093.33	1/2	4,449.99	1/2	4,806.22	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,743.36	3/4	4,100.76	3/4	4,457.42	3/4	4,813.58	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,750.82	8	4,108.19	8	4,464.86	8	4,820.94	8		8		8		8		8		8	
1/4	3,758.27	1/4	4,115.62	1/4	4,472.29	1/4	4,828.29	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,765.72	1/2	4,123.05	1/2	4,479.72	1/2	4,835.65	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,773.17	3/4	4,130.48	3/4	4,487.15	3/4	4,843.01	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,780.63	9	4,137.91	9	4,494.58	9	4,850.37	9		9		9		9		9		9	
1/4	3,788.08	1/4	4,145.34	1/4	4,502.01	1/4	4,857.73	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,795.53	1/2	4,152.77	1/2	4,509.44	1/2	4,865.08	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,802.98	3/4	4,160.20	3/4	4,516.87	3/4	4,872.44	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,810.44	10	4,167.63	10	4,524.30	10	4,879.80	10		10		10		10		10		10	
1/4	3,817.89	1/4	4,175.06	1/4	4,531.73	1/4	4,887.16	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,825.34	1/2	4,182.49	1/2	4,539.16	1/2	4,894.51	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,832.79	3/4	4,189.92	3/4	4,546.59	3/4	4,901.87	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,840.25	11	4,197.35	11	4,554.02	11	4,909.22	11		11		11		11		11		11	
1/4	3,847.70	1/4	4,204.78	1/4	4,561.45	1/4	4,916.57	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,855.15	1/2	4,212.21	1/2	4,568.88	1/2	4,923.91	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,862.60	3/4	4,219.65	3/4	4,576.31	3/4	4,931.26	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/11/2019 CL
CALCULATED: 01/14/2019 CL
PRINTED: 01/15/2019 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2019

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

BARGE "E2MS 313"

1 STBD

INNAGE TABLE

HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	15.27	0	303.22	0	652.27	0	1,009.50	0	1,367.02	0	1,724.64	0	2,082.27	0	2,439.89	0	2,797.46	0	3,154.99
1/4	18.30	1/4	310.10	1/4	659.72	1/4	1,016.93	1/4	1,374.47	1/4	1,732.09	1/4	2,089.72	1/4	2,447.34	1/4	2,804.91	1/4	3,162.43
1/2	21.34	1/2	316.98	1/2	667.17	1/2	1,024.37	1/2	1,381.92	1/2	1,739.54	1/2	2,097.17	1/2	2,454.79	1/2	2,812.35	1/2	3,169.88
3/4	24.38	3/4	323.86	3/4	674.62	3/4	1,031.81	3/4	1,389.37	3/4	1,746.99	3/4	2,104.62	3/4	2,462.24	3/4	2,819.80	3/4	3,177.33
1	27.42	1	330.74	1	682.07	1	1,039.24	1	1,396.82	1	1,754.44	1	2,112.07	1	2,469.69	1	2,827.25	1	3,184.78
1/4	32.41	1/4	337.71	1/4	689.52	1/4	1,046.69	1/4	1,404.27	1/4	1,761.89	1/4	2,119.52	1/4	2,477.14	1/4	2,834.70	1/4	3,192.23
1/2	37.39	1/2	344.68	1/2	696.97	1/2	1,054.13	1/2	1,411.72	1/2	1,769.34	1/2	2,126.97	1/2	2,484.59	1/2	2,842.15	1/2	3,199.68
3/4	42.38	3/4	351.65	3/4	704.42	3/4	1,061.58	3/4	1,419.17	3/4	1,776.80	3/4	2,134.42	3/4	2,492.04	3/4	2,849.60	3/4	3,207.13
2	47.37	2	358.62	2	711.87	2	1,069.02	2	1,426.62	2	1,784.25	2	2,141.87	2	2,499.49	2	2,857.05	2	3,214.57
1/4	53.34	1/4	365.68	1/4	719.32	1/4	1,076.47	1/4	1,434.07	1/4	1,791.70	1/4	2,149.32	1/4	2,506.94	1/4	2,864.49	1/4	3,222.02
1/2	59.31	1/2	372.73	1/2	726.77	1/2	1,083.91	1/2	1,441.52	1/2	1,799.15	1/2	2,156.77	1/2	2,514.39	1/2	2,871.94	1/2	3,229.47
3/4	65.28	3/4	379.79	3/4	734.22	3/4	1,091.36	3/4	1,448.97	3/4	1,806.60	3/4	2,164.22	3/4	2,521.85	3/4	2,879.39	3/4	3,236.92
3	71.25	3	386.85	3	741.67	3	1,098.80	3	1,456.42	3	1,814.05	3	2,171.67	3	2,529.30	3	2,886.84	3	3,244.37
1/4	77.34	1/4	393.99	1/4	749.12	1/4	1,106.25	1/4	1,463.87	1/4	1,821.50	1/4	2,179.12	1/4	2,536.75	1/4	2,894.29	1/4	3,251.82
1/2	83.42	1/2	401.14	1/2	756.57	1/2	1,113.70	1/2	1,471.32	1/2	1,828.95	1/2	2,186.57	1/2	2,544.20	1/2	2,901.74	1/2	3,259.26
3/4	89.51	3/4	408.28	3/4	764.02	3/4	1,121.15	3/4	1,478.78	3/4	1,836.40	3/4	2,194.02	3/4	2,551.65	3/4	2,909.19	3/4	3,266.71
4	95.59	4	415.43	4	771.48	4	1,128.60	4	1,486.23	4	1,843.85	4	2,201.47	4	2,559.10	4	2,916.63	4	3,274.16
1/4	101.77	1/4	422.66	1/4	778.93	1/4	1,136.05	1/4	1,493.68	1/4	1,851.30	1/4	2,208.92	1/4	2,566.55	1/4	2,924.08	1/4	3,281.61
1/2	107.95	1/2	429.89	1/2	786.38	1/2	1,143.50	1/2	1,501.13	1/2	1,858.75	1/2	2,216.37	1/2	2,574.00	1/2	2,931.53	1/2	3,289.06
3/4	114.13	3/4	437.12	3/4	793.83	3/4	1,150.95	3/4	1,508.58	3/4	1,866.20	3/4	2,223.83	3/4	2,581.45	3/4	2,938.98	3/4	3,296.51
5	120.31	5	444.35	5	801.28	5	1,158.40	5	1,516.03	5	1,873.65	5	2,231.28	5	2,588.90	5	2,946.43	5	3,303.96
1/4	126.58	1/4	451.67	1/4	808.71	1/4	1,165.85	1/4	1,523.48	1/4	1,881.10	1/4	2,238.73	1/4	2,596.35	1/4	2,953.88	1/4	3,311.40
1/2	132.85	1/2	458.99	1/2	816.15	1/2	1,173.30	1/2	1,530.93	1/2	1,888.55	1/2	2,246.18	1/2	2,603.80	1/2	2,961.32	1/2	3,318.85
3/4	139.12	3/4	466.31	3/4	823.59	3/4	1,180.76	3/4	1,538.38	3/4	1,896.00	3/4	2,253.63	3/4	2,611.25	3/4	2,968.77	3/4	3,326.30
6	145.39	6	473.63	6	831.02	6	1,188.21	6	1,545.83	6	1,903.45	6	2,261.08	6	2,618.69	6	2,976.22	6	3,333.75
1/4	151.75	1/4	481.04	1/4	838.46	1/4	1,195.66	1/4	1,553.28	1/4	1,910.90	1/4	2,268.53	1/4	2,626.14	1/4	2,983.67	1/4	3,341.20
1/2	158.11	1/2	488.44	1/2	845.90	1/2	1,203.11	1/2	1,560.73	1/2	1,918.35	1/2	2,275.98	1/2	2,633.59	1/2	2,991.12	1/2	3,348.65
3/4	164.47	3/4	495.85	3/4	853.33	3/4	1,210.56	3/4	1,568.18	3/4	1,925.81	3/4	2,283.43	3/4	2,641.04	3/4	2,998.57	3/4	3,356.10
7	170.82	7	503.26	7	860.77	7	1,218.01	7	1,575.63	7	1,933.26	7	2,290.88	7	2,648.49	7	3,006.02	7	3,363.54
1/4	177.27	1/4	510.71	1/4	868.21	1/4	1,225.46	1/4	1,583.08	1/4	1,940.71	1/4	2,298.33	1/4	2,655.94	1/4	3,013.46	1/4	3,370.99
1/2	183.71	1/2	518.16	1/2	875.64	1/2	1,232.91	1/2	1,590.53	1/2	1,948.16	1/2	2,305.78	1/2	2,663.38	1/2	3,020.91	1/2	3,378.44
3/4	190.16	3/4	525.61	3/4	883.08	3/4	1,240.36	3/4	1,597.98	3/4	1,955.61	3/4	2,313.23	3/4	2,670.83	3/4	3,028.36	3/4	3,385.89
8	196.60	8	533.06	8	890.51	8	1,247.81	8	1,605.43	8	1,963.06	8	2,320.68	8	2,678.28	8	3,035.81	8	3,393.34
1/4	203.13	1/4	540.51	1/4	897.95	1/4	1,255.26	1/4	1,612.88	1/4	1,970.51	1/4	2,328.13	1/4	2,685.73	1/4	3,043.26	1/4	3,400.79
1/2	209.67	1/2	547.96	1/2	905.39	1/2	1,262.71	1/2	1,620.33	1/2	1,977.96	1/2	2,335.58	1/2	2,693.18	1/2	3,050.71	1/2	3,408.23
3/4	216.20	3/4	555.41	3/4	912.82	3/4	1,270.16	3/4	1,627.79	3/4	1,985.41	3/4	2,343.03	3/4	2,700.63	3/4	3,058.16	3/4	3,415.68
9	222.73	9	562.86	9	920.26	9	1,277.61	9	1,635.24	9	1,992.86	9	2,350.48	9	2,708.08	9	3,065.60	9	3,423.13
1/4	229.35	1/4	570.31	1/4	927.70	1/4	1,285.06	1/4	1,642.69	1/4	2,000.31	1/4	2,357.93	1/4	2,715.52	1/4	3,073.05	1/4	3,430.58
1/2	235.97	1/2	577.76	1/2	935.13	1/2	1,292.51	1/2	1,650.14	1/2	2,007.76	1/2	2,365.38	1/2	2,722.97	1/2	3,080.50	1/2	3,438.03
3/4	242.59	3/4	585.21	3/4	942.57	3/4	1,299.96	3/4	1,657.59	3/4	2,015.21	3/4	2,372.84	3/4	2,730.42	3/4	3,087.95	3/4	3,445.48
10	249.21	10	592.66	10	950.01	10	1,307.41	10	1,665.04	10	2,022.66	10	2,380.29	10	2,737.87	10	3,095.40	10	3,452.93
1/4	255.92	1/4	600.11	1/4	957.44	1/4	1,314.86	1/4	1,672.49	1/4	2,030.11	1/4	2,387.74	1/4	2,745.32	1/4	3,102.85	1/4	3,460.37
1/2	262.62	1/2	607.56	1/2	964.88	1/2	1,322.31	1/2	1,679.94	1/2	2,037.56	1/2	2,395.19	1/2	2,752.77	1/2	3,110.29	1/2	3,467.82
3/4	269.33	3/4	615.01	3/4	972.31	3/4	1,329.77	3/4	1,687.39	3/4	2,045.01	3/4	2,402.64	3/4	2,760.22	3/4	3,117.74	3/4	3,475.27
11	276.04	11	622.47	11	979.75	11	1,337.22	11	1,694.84	11	2,052.46	11	2,410.09	11	2,767.66	11	3,125.19	11	3,482.72
1/4	282.83	1/4	629.92	1/4	987.19	1/4	1,344.67	1/4	1,702.29	1/4	2,059.91	1/4	2,417.54	1/4	2,775.11	1/4	3,132.64	1/4	3,490.17
1/2	289.63	1/2	637.37	1/2	994.62	1/2	1,352.12	1/2	1,709.74	1/2	2,067.36	1/2	2,424.99	1/2	2,782.56	1/2	3,140.09	1/2	3,497.62
3/4	296.42	3/4	644.82	3/4	1,002.06	3/4	1,359.57	3/4	1,717.19	3/4	2,074.82	3/4	2,432.44	3/4	2,790.01	3/4	3,147.54	3/4	3,505.07

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 INNAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.
GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-03" FORWARD OF AFT BULKHEAD.

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

BARGE "E2MS 313"

1 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	3,512.51	0	3,870.04	0	4,226.87	0	4,583.34	0	4,938.00	0		0		0		0		0	
1/4	3,519.96	1/4	3,877.49	1/4	4,234.29	1/4	4,590.76	1/4	4,945.28	1/4		1/4		1/4		1/4		1/4	
1/2	3,527.41	1/2	3,884.94	1/2	4,241.72	1/2	4,598.19	1/2	4,952.57	1/2		1/2		1/2		1/2		1/2	
3/4	3,534.86	3/4	3,892.39	3/4	4,249.15	3/4	4,605.62	3/4	4,959.85	3/4		3/4		3/4		3/4		3/4	
1	3,542.31	1	3,899.84	1	4,256.57	1	4,613.04	1	4,967.14	1		1		1		1		1	
1/4	3,549.76	1/4	3,907.28	1/4	4,264.00	1/4	4,620.47	1/4	4,973.56	1/4		1/4		1/4		1/4		1/4	
1/2	3,557.20	1/2	3,914.73	1/2	4,271.42	1/2	4,627.90	1/2	4,979.98	1/2		1/2		1/2		1/2		1/2	
3/4	3,564.65	3/4	3,922.18	3/4	4,278.85	3/4	4,635.32	3/4	4,986.41	3/4		3/4		3/4		3/4		3/4	
2	3,572.10	2	3,929.63	2	4,286.28	2	4,642.75	2	4,992.83	2		2		2		2		2	
1/4	3,579.55	1/4	3,937.08	1/4	4,293.70	1/4	4,650.18	1/4	4,998.01	1/4		1/4		1/4		1/4		1/4	
1/2	3,587.00	1/2	3,944.53	1/2	4,301.13	1/2	4,657.60	1/2	5,003.20	1/2		1/2		1/2		1/2		1/2	
3/4	3,594.45	3/4	3,951.98	3/4	4,308.56	3/4	4,665.03	3/4	5,008.38	3/4		3/4		3/4		3/4		3/4	
3	3,601.90	3	3,959.42	3	4,315.98	3	4,672.46	3	5,013.56	3		3		3		3		3	
1/4	3,609.34	1/4	3,966.87	1/4	4,323.41	1/4	4,679.88	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,616.79	1/2	3,974.32	1/2	4,330.84	1/2	4,687.31	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,624.24	3/4	3,981.77	3/4	4,338.26	3/4	4,694.74	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,631.69	4	3,989.22	4	4,345.69	4	4,702.16	4		4		4		4		4		4	
1/4	3,639.14	1/4	3,996.64	1/4	4,353.12	1/4	4,709.59	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,646.59	1/2	4,004.07	1/2	4,360.54	1/2	4,717.01	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,654.04	3/4	4,011.50	3/4	4,367.97	3/4	4,724.44	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,661.48	5	4,018.92	5	4,375.40	5	4,731.87	5		5		5		5		5		5	
1/4	3,668.93	1/4	4,026.35	1/4	4,382.82	1/4	4,739.29	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,676.38	1/2	4,033.78	1/2	4,390.25	1/2	4,746.72	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,683.83	3/4	4,041.20	3/4	4,397.68	3/4	4,754.15	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,691.28	6	4,048.63	6	4,405.10	6	4,761.57	6		6		6		6		6		6	
1/4	3,698.73	1/4	4,056.06	1/4	4,412.53	1/4	4,768.93	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,706.17	1/2	4,063.48	1/2	4,419.95	1/2	4,776.28	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,713.62	3/4	4,070.91	3/4	4,427.38	3/4	4,783.63	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,721.07	7	4,078.34	7	4,434.81	7	4,790.99	7		7		7		7		7		7	
1/4	3,728.52	1/4	4,085.76	1/4	4,442.23	1/4	4,798.34	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,735.97	1/2	4,093.19	1/2	4,449.66	1/2	4,805.69	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,743.42	3/4	4,100.62	3/4	4,457.09	3/4	4,813.05	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,750.87	8	4,108.04	8	4,464.51	8	4,820.40	8		8		8		8		8		8	
1/4	3,758.31	1/4	4,115.47	1/4	4,471.94	1/4	4,827.75	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,765.76	1/2	4,122.89	1/2	4,479.37	1/2	4,835.11	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,773.21	3/4	4,130.32	3/4	4,486.79	3/4	4,842.46	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,780.66	9	4,137.75	9	4,494.22	9	4,849.81	9		9		9		9		9		9	
1/4	3,788.11	1/4	4,145.17	1/4	4,501.65	1/4	4,857.17	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,795.56	1/2	4,152.60	1/2	4,509.07	1/2	4,864.52	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,803.01	3/4	4,160.03	3/4	4,516.50	3/4	4,871.88	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,810.45	10	4,167.45	10	4,523.93	10	4,879.23	10		10		10		10		10		10	
1/4	3,817.90	1/4	4,174.88	1/4	4,531.35	1/4	4,886.58	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,825.35	1/2	4,182.31	1/2	4,538.78	1/2	4,893.93	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,832.80	3/4	4,189.73	3/4	4,546.21	3/4	4,901.29	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,840.25	11	4,197.16	11	4,553.63	11	4,908.64	11		11		11		11		11		11	
1/4	3,847.70	1/4	4,204.59	1/4	4,561.06	1/4	4,915.98	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,855.14	1/2	4,212.01	1/2	4,568.48	1/2	4,923.32	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,862.59	3/4	4,219.44	3/4	4,575.91	3/4	4,930.66	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/11/2019 CL
CALCULATED: 01/14/2019 CL
PRINTED: 01/15/2019 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2019

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

BARGE "E2MS 313"

2 PORT

INNAGE TABLE

HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	15.30	0	358.67	0	717.18	0	1,065.98	0	1,419.75	0	1,778.25	0	2,136.76	0	2,495.27	0	2,853.77	0	3,212.28
1/4	19.97	1/4	366.14	1/4	724.65	1/4	1,073.14	1/4	1,427.21	1/4	1,785.72	1/4	2,144.23	1/4	2,502.74	1/4	2,861.24	1/4	3,219.75
1/2	24.64	1/2	373.61	1/2	732.12	1/2	1,080.30	1/2	1,434.68	1/2	1,793.19	1/2	2,151.70	1/2	2,510.21	1/2	2,868.71	1/2	3,227.22
3/4	29.31	3/4	381.08	3/4	739.59	3/4	1,087.46	3/4	1,442.15	3/4	1,800.66	3/4	2,159.17	3/4	2,517.67	3/4	2,876.18	3/4	3,234.69
1	33.97	1	388.55	1	747.06	1	1,094.63	1	1,449.62	1	1,808.13	1	2,166.64	1	2,525.14	1	2,883.65	1	3,242.16
1/4	40.51	1/4	396.02	1/4	754.52	1/4	1,101.80	1/4	1,457.09	1/4	1,815.60	1/4	2,174.10	1/4	2,532.61	1/4	2,891.12	1/4	3,249.63
1/2	47.04	1/2	403.49	1/2	761.99	1/2	1,108.97	1/2	1,464.56	1/2	1,823.07	1/2	2,181.57	1/2	2,540.08	1/2	2,898.59	1/2	3,257.10
3/4	53.58	3/4	410.95	3/4	769.46	3/4	1,116.14	3/4	1,472.03	3/4	1,830.54	3/4	2,189.04	3/4	2,547.55	3/4	2,906.06	3/4	3,264.56
2	60.11	2	418.42	2	776.93	2	1,123.31	2	1,479.50	2	1,838.00	2	2,196.51	2	2,555.02	2	2,913.53	2	3,272.03
1/4	67.54	1/4	425.89	1/4	784.40	1/4	1,130.48	1/4	1,486.97	1/4	1,845.47	1/4	2,203.98	1/4	2,562.49	1/4	2,920.99	1/4	3,279.50
1/2	74.97	1/2	433.36	1/2	791.87	1/2	1,137.65	1/2	1,494.43	1/2	1,852.94	1/2	2,211.45	1/2	2,569.96	1/2	2,928.46	1/2	3,286.97
3/4	82.41	3/4	440.83	3/4	799.34	3/4	1,144.82	3/4	1,501.90	3/4	1,860.41	3/4	2,218.92	3/4	2,577.43	3/4	2,935.93	3/4	3,294.44
3	89.84	3	448.30	3	806.81	3	1,151.99	3	1,509.37	3	1,867.88	3	2,226.39	3	2,584.89	3	2,943.40	3	3,301.91
1/4	97.30	1/4	455.77	1/4	814.28	1/4	1,159.18	1/4	1,516.84	1/4	1,875.35	1/4	2,233.86	1/4	2,592.36	1/4	2,950.87	1/4	3,309.38
1/2	104.76	1/2	463.24	1/2	821.74	1/2	1,166.37	1/2	1,524.31	1/2	1,882.82	1/2	2,241.32	1/2	2,599.83	1/2	2,958.34	1/2	3,316.85
3/4	112.22	3/4	470.71	3/4	829.21	3/4	1,173.55	3/4	1,531.78	3/4	1,890.29	3/4	2,248.79	3/4	2,607.30	3/4	2,965.81	3/4	3,324.32
4	119.67	4	478.18	4	836.68	4	1,180.74	4	1,539.25	4	1,897.76	4	2,256.26	4	2,614.77	4	2,973.28	4	3,331.78
1/4	127.14	1/4	485.64	1/4	843.87	1/4	1,188.21	1/4	1,546.72	1/4	1,905.22	1/4	2,263.73	1/4	2,622.24	1/4	2,980.75	1/4	3,339.25
1/2	134.61	1/2	493.11	1/2	851.06	1/2	1,195.68	1/2	1,554.19	1/2	1,912.69	1/2	2,271.20	1/2	2,629.71	1/2	2,988.21	1/2	3,346.72
3/4	142.08	3/4	500.58	3/4	858.24	3/4	1,203.15	3/4	1,561.65	3/4	1,920.16	3/4	2,278.67	3/4	2,637.18	3/4	2,995.68	3/4	3,354.19
5	149.54	5	508.05	5	865.43	5	1,210.62	5	1,569.12	5	1,927.63	5	2,286.14	5	2,644.65	5	3,003.15	5	3,361.66
1/4	157.01	1/4	515.52	1/4	872.59	1/4	1,218.09	1/4	1,576.59	1/4	1,935.10	1/4	2,293.61	1/4	2,652.11	1/4	3,010.62	1/4	3,369.13
1/2	164.48	1/2	522.99	1/2	879.75	1/2	1,225.55	1/2	1,584.06	1/2	1,942.57	1/2	2,301.08	1/2	2,659.58	1/2	3,018.09	1/2	3,376.60
3/4	171.95	3/4	530.46	3/4	886.92	3/4	1,233.02	3/4	1,591.53	3/4	1,950.04	3/4	2,308.54	3/4	2,667.05	3/4	3,025.56	3/4	3,384.07
6	179.42	6	537.93	6	894.08	6	1,240.49	6	1,599.00	6	1,957.51	6	2,316.01	6	2,674.52	6	3,033.03	6	3,391.54
1/4	186.89	1/4	545.40	1/4	901.24	1/4	1,247.96	1/4	1,606.47	1/4	1,964.98	1/4	2,323.48	1/4	2,681.99	1/4	3,040.50	1/4	3,399.00
1/2	194.36	1/2	552.86	1/2	908.40	1/2	1,255.43	1/2	1,613.94	1/2	1,972.44	1/2	2,330.95	1/2	2,689.46	1/2	3,047.97	1/2	3,406.47
3/4	201.83	3/4	560.33	3/4	915.57	3/4	1,262.90	3/4	1,621.41	3/4	1,979.91	3/4	2,338.42	3/4	2,696.93	3/4	3,055.43	3/4	3,413.94
7	209.29	7	567.80	7	922.73	7	1,270.37	7	1,628.88	7	1,987.38	7	2,345.89	7	2,704.40	7	3,062.90	7	3,421.41
1/4	216.76	1/4	575.27	1/4	929.89	1/4	1,277.84	1/4	1,636.34	1/4	1,994.85	1/4	2,353.36	1/4	2,711.87	1/4	3,070.37	1/4	3,428.88
1/2	224.23	1/2	582.74	1/2	937.05	1/2	1,285.31	1/2	1,643.81	1/2	2,002.32	1/2	2,360.83	1/2	2,719.33	1/2	3,077.84	1/2	3,436.35
3/4	231.70	3/4	590.21	3/4	944.22	3/4	1,292.77	3/4	1,651.28	3/4	2,009.79	3/4	2,368.30	3/4	2,726.80	3/4	3,085.31	3/4	3,443.82
8	239.17	8	597.68	8	951.38	8	1,300.24	8	1,658.75	8	2,017.26	8	2,375.77	8	2,734.27	8	3,092.78	8	3,451.29
1/4	246.64	1/4	605.15	1/4	958.54	1/4	1,307.71	1/4	1,666.22	1/4	2,024.73	1/4	2,383.23	1/4	2,741.74	1/4	3,100.25	1/4	3,458.76
1/2	254.11	1/2	612.62	1/2	965.70	1/2	1,315.18	1/2	1,673.69	1/2	2,032.20	1/2	2,390.70	1/2	2,749.21	1/2	3,107.72	1/2	3,466.22
3/4	261.58	3/4	620.08	3/4	972.87	3/4	1,322.65	3/4	1,681.16	3/4	2,039.66	3/4	2,398.17	3/4	2,756.68	3/4	3,115.19	3/4	3,473.69
9	269.05	9	627.55	9	980.03	9	1,330.12	9	1,688.63	9	2,047.13	9	2,405.64	9	2,764.15	9	3,122.65	9	3,481.16
1/4	276.51	1/4	635.02	1/4	987.19	1/4	1,337.59	1/4	1,696.10	1/4	2,054.60	1/4	2,413.11	1/4	2,771.62	1/4	3,130.12	1/4	3,488.63
1/2	283.98	1/2	642.49	1/2	994.35	1/2	1,345.06	1/2	1,703.56	1/2	2,062.07	1/2	2,420.58	1/2	2,779.09	1/2	3,137.59	1/2	3,496.10
3/4	291.45	3/4	649.96	3/4	1,001.52	3/4	1,352.53	3/4	1,711.03	3/4	2,069.54	3/4	2,428.05	3/4	2,786.55	3/4	3,145.06	3/4	3,503.57
10	298.92	10	657.43	10	1,008.68	10	1,359.99	10	1,718.50	10	2,077.01	10	2,435.52	10	2,794.02	10	3,152.53	10	3,511.04
1/4	306.39	1/4	664.90	1/4	1,015.84	1/4	1,367.46	1/4	1,725.97	1/4	2,084.48	1/4	2,442.99	1/4	2,801.49	1/4	3,160.00	1/4	3,518.51
1/2	313.86	1/2	672.37	1/2	1,023.00	1/2	1,374.93	1/2	1,733.44	1/2	2,091.95	1/2	2,450.45	1/2	2,808.96	1/2	3,167.47	1/2	3,525.98
3/4	321.33	3/4	679.84	3/4	1,030.17	3/4	1,382.40	3/4	1,740.91	3/4	2,099.42	3/4	2,457.92	3/4	2,816.43	3/4	3,174.94	3/4	3,533.44
11	328.80	11	687.30	11	1,037.33	11	1,389.87	11	1,748.38	11	2,106.88	11	2,465.39	11	2,823.90	11	3,182.41	11	3,540.91
1/4	336.27	1/4	694.77	1/4	1,044.49	1/4	1,397.34	1/4	1,755.85	1/4	2,114.35	1/4	2,472.86	1/4	2,831.37	1/4	3,189.88	1/4	3,548.38
1/2	343.73	1/2	702.24	1/2	1,051.65	1/2	1,404.81	1/2	1,763.32	1/2	2,121.82	1/2	2,480.33	1/2	2,838.84	1/2	3,197.34	1/2	3,555.85
3/4	351.20	3/4	709.71	3/4	1,058.81	3/4	1,412.28	3/4	1,770.78	3/4	2,129.29	3/4	2,487.80	3/4	2,846.31	3/4	3,204.81	3/4	3,563.32

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'-00" FORWARD OF AFT BULKHEAD.

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

BARGE "E2MS 313"

2 PORT

INNAGE TABLE

HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,570.79	0	3,929.30	0	4,287.11	0	4,644.57	0	5,000.38	0		0		0		0		0	
1/4	3,578.26	1/4	3,936.77	1/4	4,294.56	1/4	4,652.02	1/4	5,007.69	1/4		1/4		1/4		1/4		1/4	
1/2	3,585.73	1/2	3,944.23	1/2	4,302.00	1/2	4,659.47	1/2	5,015.00	1/2		1/2		1/2		1/2		1/2	
3/4	3,593.20	3/4	3,951.70	3/4	4,309.45	3/4	4,666.92	3/4	5,022.31	3/4		3/4		3/4		3/4		3/4	
1	3,600.66	1	3,959.17	1	4,316.90	1	4,674.36	1	5,029.62	1		1		1		1		1	
1/4	3,608.13	1/4	3,966.64	1/4	4,324.34	1/4	4,681.81	1/4	5,036.07	1/4		1/4		1/4		1/4		1/4	
1/2	3,615.60	1/2	3,974.11	1/2	4,331.79	1/2	4,689.26	1/2	5,042.52	1/2		1/2		1/2		1/2		1/2	
3/4	3,623.07	3/4	3,981.58	3/4	4,339.24	3/4	4,696.70	3/4	5,048.97	3/4		3/4		3/4		3/4		3/4	
2	3,630.54	2	3,989.05	2	4,346.69	2	4,704.15	2	5,055.41	2		2		2		2		2	
1/4	3,638.01	1/4	3,996.52	1/4	4,354.13	1/4	4,711.60	1/4	5,060.62	1/4		1/4		1/4		1/4		1/4	
1/2	3,645.48	1/2	4,003.99	1/2	4,361.58	1/2	4,719.05	1/2	5,065.82	1/2		1/2		1/2		1/2		1/2	
3/4	3,652.95	3/4	4,011.45	3/4	4,369.03	3/4	4,726.49	3/4	5,071.02	3/4		3/4		3/4		3/4		3/4	
3	3,660.42	3	4,018.92	3	4,376.48	3	4,733.94	3	5,076.22	3		3		3		3		3	
1/4	3,667.88	1/4	4,026.39	1/4	4,383.92	1/4	4,741.39	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,675.35	1/2	4,033.86	1/2	4,391.37	1/2	4,748.84	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,682.82	3/4	4,041.33	3/4	4,398.82	3/4	4,756.28	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,690.29	4	4,048.80	4	4,406.26	4	4,763.73	4		4		4		4		4		4	
1/4	3,697.76	1/4	4,056.25	1/4	4,413.71	1/4	4,771.18	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,705.23	1/2	4,063.69	1/2	4,421.16	1/2	4,778.62	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,712.70	3/4	4,071.14	3/4	4,428.61	3/4	4,786.07	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,720.17	5	4,078.59	5	4,436.05	5	4,793.52	5		5		5		5		5		5	
1/4	3,727.64	1/4	4,086.03	1/4	4,443.50	1/4	4,800.97	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,735.10	1/2	4,093.48	1/2	4,450.95	1/2	4,808.41	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,742.57	3/4	4,100.93	3/4	4,458.39	3/4	4,815.86	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,750.04	6	4,108.38	6	4,465.84	6	4,823.31	6		6		6		6		6		6	
1/4	3,757.51	1/4	4,115.82	1/4	4,473.29	1/4	4,830.69	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,764.98	1/2	4,123.27	1/2	4,480.74	1/2	4,838.07	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,772.45	3/4	4,130.72	3/4	4,488.18	3/4	4,845.45	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,779.92	7	4,138.16	7	4,495.63	7	4,852.83	7		7		7		7		7		7	
1/4	3,787.39	1/4	4,145.61	1/4	4,503.08	1/4	4,860.21	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,794.86	1/2	4,153.06	1/2	4,510.52	1/2	4,867.59	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,802.32	3/4	4,160.51	3/4	4,517.97	3/4	4,874.98	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,809.79	8	4,167.95	8	4,525.42	8	4,882.36	8		8		8		8		8		8	
1/4	3,817.26	1/4	4,175.40	1/4	4,532.87	1/4	4,889.74	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,824.73	1/2	4,182.85	1/2	4,540.31	1/2	4,897.12	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,832.20	3/4	4,190.30	3/4	4,547.76	3/4	4,904.50	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,839.67	9	4,197.74	9	4,555.21	9	4,911.88	9		9		9		9		9		9	
1/4	3,847.14	1/4	4,205.19	1/4	4,562.66	1/4	4,919.26	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,854.61	1/2	4,212.64	1/2	4,570.10	1/2	4,926.64	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,862.08	3/4	4,220.08	3/4	4,577.55	3/4	4,934.03	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,869.54	10	4,227.53	10	4,585.00	10	4,941.41	10		10		10		10		10		10	
1/4	3,877.01	1/4	4,234.98	1/4	4,592.44	1/4	4,948.78	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,884.48	1/2	4,242.43	1/2	4,599.89	1/2	4,956.16	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,891.95	3/4	4,249.87	3/4	4,607.34	3/4	4,963.54	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,899.42	11	4,257.32	11	4,614.79	11	4,970.91	11		11		11		11		11		11	
1/4	3,906.89	1/4	4,264.77	1/4	4,622.23	1/4	4,978.28	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,914.36	1/2	4,272.21	1/2	4,629.68	1/2	4,985.65	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,921.83	3/4	4,279.66	3/4	4,637.13	3/4	4,993.01	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/11/2019 CL
CALCULATED: 01/14/2019 CL
PRINTED: 01/15/2019 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2019

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

BARGE "E2MS 313"

2 STBD

INNAGE TABLE

HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09 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	15.31	0	358.83	0	717.50	0	1,075.77	0	1,434.34	0	1,793.01	0	2,151.68	0	2,510.35	0	2,868.96	0	3,227.52
1/4	19.98	1/4	366.30	1/4	724.97	1/4	1,083.23	1/4	1,441.81	1/4	1,800.48	1/4	2,159.15	1/4	2,517.82	1/4	2,876.43	1/4	3,234.99
1/2	24.65	1/2	373.78	1/2	732.44	1/2	1,090.68	1/2	1,449.28	1/2	1,807.95	1/2	2,166.62	1/2	2,525.29	1/2	2,883.90	1/2	3,242.46
3/4	29.32	3/4	381.25	3/4	739.91	3/4	1,098.14	3/4	1,456.76	3/4	1,815.43	3/4	2,174.10	3/4	2,532.77	3/4	2,891.37	3/4	3,249.93
1	33.99	1	388.72	1	747.39	1	1,105.60	1	1,464.23	1	1,822.90	1	2,181.57	1	2,540.24	1	2,898.84	1	3,257.40
1/4	40.53	1/4	396.19	1/4	754.86	1/4	1,113.07	1/4	1,471.70	1/4	1,830.37	1/4	2,189.04	1/4	2,547.71	1/4	2,906.31	1/4	3,264.87
1/2	47.06	1/2	403.67	1/2	762.33	1/2	1,120.53	1/2	1,479.17	1/2	1,837.84	1/2	2,196.51	1/2	2,555.18	1/2	2,913.78	1/2	3,272.34
3/4	53.60	3/4	411.14	3/4	769.80	3/4	1,128.00	3/4	1,486.64	3/4	1,845.31	3/4	2,203.99	3/4	2,562.66	3/4	2,921.25	3/4	3,279.81
2	60.14	2	418.61	2	777.28	2	1,135.47	2	1,494.12	2	1,852.79	2	2,211.46	2	2,570.13	2	2,928.72	2	3,287.28
1/4	67.57	1/4	426.08	1/4	784.75	1/4	1,142.94	1/4	1,501.59	1/4	1,860.26	1/4	2,218.93	1/4	2,577.60	1/4	2,936.19	1/4	3,294.75
1/2	75.01	1/2	433.55	1/2	792.22	1/2	1,150.40	1/2	1,509.06	1/2	1,867.73	1/2	2,226.40	1/2	2,585.07	1/2	2,943.66	1/2	3,302.22
3/4	82.44	3/4	441.03	3/4	799.69	3/4	1,157.87	3/4	1,516.53	3/4	1,875.20	3/4	2,233.87	3/4	2,592.54	3/4	2,951.13	3/4	3,309.69
3	89.88	3	448.50	3	807.16	3	1,165.34	3	1,524.01	3	1,882.68	3	2,241.35	3	2,600.02	3	2,958.60	3	3,317.16
1/4	97.34	1/4	455.97	1/4	814.64	1/4	1,172.81	1/4	1,531.48	1/4	1,890.15	1/4	2,248.82	1/4	2,607.49	1/4	2,966.07	1/4	3,324.63
1/2	104.80	1/2	463.44	1/2	822.11	1/2	1,180.28	1/2	1,538.95	1/2	1,897.62	1/2	2,256.29	1/2	2,614.96	1/2	2,973.54	1/2	3,332.10
3/4	112.26	3/4	470.92	3/4	829.58	3/4	1,187.75	3/4	1,546.42	3/4	1,905.09	3/4	2,263.76	3/4	2,622.43	3/4	2,981.01	3/4	3,339.57
4	119.73	4	478.39	4	837.05	4	1,195.22	4	1,553.90	4	1,912.57	4	2,271.24	4	2,629.91	4	2,988.48	4	3,347.04
1/4	127.20	1/4	485.86	1/4	844.53	1/4	1,202.70	1/4	1,561.37	1/4	1,920.04	1/4	2,278.71	1/4	2,637.38	1/4	2,995.95	1/4	3,354.51
1/2	134.67	1/2	493.33	1/2	852.00	1/2	1,210.17	1/2	1,568.84	1/2	1,927.51	1/2	2,286.18	1/2	2,644.85	1/2	3,003.42	1/2	3,361.98
3/4	142.14	3/4	500.80	3/4	859.47	3/4	1,217.64	3/4	1,576.31	3/4	1,934.98	3/4	2,293.65	3/4	2,652.32	3/4	3,010.89	3/4	3,369.45
5	149.61	5	508.28	5	866.94	5	1,225.11	5	1,583.78	5	1,942.45	5	2,301.12	5	2,659.80	5	3,018.36	5	3,376.92
1/4	157.08	1/4	515.75	1/4	874.40	1/4	1,232.59	1/4	1,591.26	1/4	1,949.93	1/4	2,308.60	1/4	2,667.27	1/4	3,025.83	1/4	3,384.39
1/2	164.56	1/2	523.22	1/2	881.86	1/2	1,240.06	1/2	1,598.73	1/2	1,957.40	1/2	2,316.07	1/2	2,674.74	1/2	3,033.30	1/2	3,391.86
3/4	172.03	3/4	530.69	3/4	889.32	3/4	1,247.53	3/4	1,606.20	3/4	1,964.87	3/4	2,323.54	3/4	2,682.21	3/4	3,040.77	3/4	3,399.33
6	179.50	6	538.17	6	896.77	6	1,255.00	6	1,613.67	6	1,972.34	6	2,331.01	6	2,689.68	6	3,048.24	6	3,406.80
1/4	186.97	1/4	545.64	1/4	904.23	1/4	1,262.48	1/4	1,621.15	1/4	1,979.82	1/4	2,338.49	1/4	2,697.15	1/4	3,055.71	1/4	3,414.27
1/2	194.44	1/2	553.11	1/2	911.69	1/2	1,269.95	1/2	1,628.62	1/2	1,987.29	1/2	2,345.96	1/2	2,704.62	1/2	3,063.18	1/2	3,421.74
3/4	201.92	3/4	560.58	3/4	919.15	3/4	1,277.42	3/4	1,636.09	3/4	1,994.76	3/4	2,353.43	3/4	2,712.09	3/4	3,070.65	3/4	3,429.21
7	209.39	7	568.05	7	926.61	7	1,284.89	7	1,643.56	7	2,002.23	7	2,360.90	7	2,719.56	7	3,078.12	7	3,436.68
1/4	216.86	1/4	575.53	1/4	934.06	1/4	1,292.36	1/4	1,651.03	1/4	2,009.71	1/4	2,368.38	1/4	2,727.03	1/4	3,085.59	1/4	3,444.15
1/2	224.33	1/2	583.00	1/2	941.52	1/2	1,299.84	1/2	1,658.51	1/2	2,017.18	1/2	2,375.85	1/2	2,734.50	1/2	3,093.06	1/2	3,451.62
3/4	231.80	3/4	590.47	3/4	948.98	3/4	1,307.31	3/4	1,665.98	3/4	2,024.65	3/4	2,383.32	3/4	2,741.97	3/4	3,100.53	3/4	3,459.09
8	239.28	8	597.94	8	956.44	8	1,314.78	8	1,673.45	8	2,032.12	8	2,390.79	8	2,749.44	8	3,108.00	8	3,466.56
1/4	246.75	1/4	605.41	1/4	963.90	1/4	1,322.25	1/4	1,680.92	1/4	2,039.59	1/4	2,398.26	1/4	2,756.91	1/4	3,115.47	1/4	3,474.03
1/2	254.22	1/2	612.89	1/2	971.36	1/2	1,329.73	1/2	1,688.40	1/2	2,047.07	1/2	2,405.74	1/2	2,764.38	1/2	3,122.94	1/2	3,481.50
3/4	261.69	3/4	620.36	3/4	978.81	3/4	1,337.20	3/4	1,695.87	3/4	2,054.54	3/4	2,413.21	3/4	2,771.85	3/4	3,130.41	3/4	3,488.97
9	269.17	9	627.83	9	986.27	9	1,344.67	9	1,703.34	9	2,062.01	9	2,420.68	9	2,779.32	9	3,137.88	9	3,496.44
1/4	276.64	1/4	635.30	1/4	993.73	1/4	1,352.14	1/4	1,710.81	1/4	2,069.48	1/4	2,428.15	1/4	2,786.79	1/4	3,145.35	1/4	3,503.91
1/2	284.11	1/2	642.78	1/2	1,001.19	1/2	1,359.62	1/2	1,718.29	1/2	2,076.96	1/2	2,435.63	1/2	2,794.26	1/2	3,152.82	1/2	3,511.38
3/4	291.58	3/4	650.25	3/4	1,008.65	3/4	1,367.09	3/4	1,725.76	3/4	2,084.43	3/4	2,443.10	3/4	2,801.73	3/4	3,160.29	3/4	3,518.85
10	299.05	10	657.72	10	1,016.10	10	1,374.56	10	1,733.23	10	2,091.90	10	2,450.57	10	2,809.20	10	3,167.76	10	3,526.32
1/4	306.53	1/4	665.19	1/4	1,023.56	1/4	1,382.03	1/4	1,740.70	1/4	2,099.37	1/4	2,458.04	1/4	2,816.67	1/4	3,175.23	1/4	3,533.79
1/2	314.00	1/2	672.66	1/2	1,031.02	1/2	1,389.50	1/2	1,748.17	1/2	2,106.85	1/2	2,465.52	1/2	2,824.14	1/2	3,182.70	1/2	3,541.26
3/4	321.47	3/4	680.14	3/4	1,038.48	3/4	1,396.98	3/4	1,755.65	3/4	2,114.32	3/4	2,472.99	3/4	2,831.61	3/4	3,190.17	3/4	3,548.73
11	328.94	11	687.61	11	1,045.94	11	1,404.45	11	1,763.12	11	2,121.79	11	2,480.46	11	2,839.08	11	3,197.64	11	3,556.20
1/4	336.42	1/4	695.08	1/4	1,053.39	1/4	1,411.92	1/4	1,770.59	1/4	2,129.26	1/4	2,487.93	1/4	2,846.55	1/4	3,205.11	1/4	3,563.67
1/2	343.89	1/2	702.55	1/2	1,060.85	1/2	1,419.39	1/2	1,778.06	1/2	2,136.73	1/2	2,495.40	1/2	2,854.02	1/2	3,212.58	1/2	3,571.14
3/4	351.36	3/4	710.03	3/4	1,068.31	3/4	1,426.87	3/4	1,785.54	3/4	2,144.21	3/4	2,502.88	3/4	2,861.49	3/4	3,220.05	3/4	3,578.61

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'-00" FORWARD OF AFT BULKHEAD.

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

BARGE "E2MS 313"

2 STBD

INNAGE TABLE
HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,586.08	0	3,944.64	0	4,302.51	0	4,660.04	0	5,015.76	0		0		0		0		0	
1/4	3,593.55	1/4	3,952.11	1/4	4,309.96	1/4	4,667.48	1/4	5,023.06	1/4		1/4		1/4		1/4		1/4	
1/2	3,601.02	1/2	3,959.58	1/2	4,317.40	1/2	4,674.93	1/2	5,030.37	1/2		1/2		1/2		1/2		1/2	
3/4	3,608.49	3/4	3,967.05	3/4	4,324.85	3/4	4,682.38	3/4	5,037.68	3/4		3/4		3/4		3/4		3/4	
1	3,615.96	1	3,974.52	1	4,332.30	1	4,689.83	1	5,044.98	1		1		1		1		1	
1/4	3,623.43	1/4	3,981.99	1/4	4,339.75	1/4	4,697.28	1/4	5,051.43	1/4		1/4		1/4		1/4		1/4	
1/2	3,630.90	1/2	3,989.46	1/2	4,347.20	1/2	4,704.73	1/2	5,057.87	1/2		1/2		1/2		1/2		1/2	
3/4	3,638.37	3/4	3,996.93	3/4	4,354.65	3/4	4,712.17	3/4	5,064.31	3/4		3/4		3/4		3/4		3/4	
2	3,645.84	2	4,004.40	2	4,362.10	2	4,719.62	2	5,070.75	2		2		2		2		2	
1/4	3,653.31	1/4	4,011.87	1/4	4,369.54	1/4	4,727.07	1/4	5,075.95	1/4		1/4		1/4		1/4		1/4	
1/2	3,660.78	1/2	4,019.34	1/2	4,376.99	1/2	4,734.52	1/2	5,081.15	1/2		1/2		1/2		1/2		1/2	
3/4	3,668.25	3/4	4,026.81	3/4	4,384.44	3/4	4,741.97	3/4	5,086.35	3/4		3/4		3/4		3/4		3/4	
3	3,675.72	3	4,034.28	3	4,391.89	3	4,749.42	3	5,091.54	3		3		3		3		3	
1/4	3,683.19	1/4	4,041.75	1/4	4,399.34	1/4	4,756.87	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,690.66	1/2	4,049.22	1/2	4,406.79	1/2	4,764.31	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,698.13	3/4	4,056.69	3/4	4,414.23	3/4	4,771.76	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,705.60	4	4,064.16	4	4,421.68	4	4,779.21	4		4		4		4		4		4	
1/4	3,713.07	1/4	4,071.60	1/4	4,429.13	1/4	4,786.66	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,720.54	1/2	4,079.05	1/2	4,436.58	1/2	4,794.11	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,728.01	3/4	4,086.50	3/4	4,444.03	3/4	4,801.56	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,735.48	5	4,093.95	5	4,451.48	5	4,809.01	5		5		5		5		5		5	
1/4	3,742.95	1/4	4,101.40	1/4	4,458.93	1/4	4,816.45	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,750.42	1/2	4,108.85	1/2	4,466.37	1/2	4,823.90	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,757.89	3/4	4,116.29	3/4	4,473.82	3/4	4,831.35	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,765.36	6	4,123.74	6	4,481.27	6	4,838.80	6		6		6		6		6		6	
1/4	3,772.83	1/4	4,131.19	1/4	4,488.72	1/4	4,846.17	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,780.30	1/2	4,138.64	1/2	4,496.17	1/2	4,853.55	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,787.77	3/4	4,146.09	3/4	4,503.62	3/4	4,860.92	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,795.24	7	4,153.54	7	4,511.07	7	4,868.30	7		7		7		7		7		7	
1/4	3,802.71	1/4	4,160.99	1/4	4,518.51	1/4	4,875.67	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,810.18	1/2	4,168.43	1/2	4,525.96	1/2	4,883.05	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,817.65	3/4	4,175.88	3/4	4,533.41	3/4	4,890.43	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,825.12	8	4,183.33	8	4,540.86	8	4,897.80	8		8		8		8		8		8	
1/4	3,832.59	1/4	4,190.78	1/4	4,548.31	1/4	4,905.18	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,840.06	1/2	4,198.23	1/2	4,555.76	1/2	4,912.55	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,847.53	3/4	4,205.68	3/4	4,563.20	3/4	4,919.93	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,855.00	9	4,213.13	9	4,570.65	9	4,927.30	9		9		9		9		9		9	
1/4	3,862.47	1/4	4,220.57	1/4	4,578.10	1/4	4,934.68	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,869.94	1/2	4,228.02	1/2	4,585.55	1/2	4,942.05	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,877.41	3/4	4,235.47	3/4	4,593.00	3/4	4,949.43	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,884.88	10	4,242.92	10	4,600.45	10	4,956.81	10		10		10		10		10		10	
1/4	3,892.35	1/4	4,250.37	1/4	4,607.90	1/4	4,964.18	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,899.82	1/2	4,257.82	1/2	4,615.34	1/2	4,971.56	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,907.29	3/4	4,265.26	3/4	4,622.79	3/4	4,978.93	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,914.76	11	4,272.71	11	4,630.24	11	4,986.31	11		11		11		11		11		11	
1/4	3,922.23	1/4	4,280.16	1/4	4,637.69	1/4	4,993.67	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,929.70	1/2	4,287.61	1/2	4,645.14	1/2	5,001.03	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,937.17	3/4	4,295.06	3/4	4,652.59	3/4	5,008.40	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/11/2019 CL
CALCULATED: 01/14/2019 CL
PRINTED: 01/15/2019 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2019

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

BARGE "E2MS 313"

3 PORT

INNAGE TABLE

HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	15.24	0	356.99	0	713.35	0	1,060.09	0	1,412.46	0	1,768.51	0	2,123.85	0	2,479.90	0	2,835.66	0	3,191.40
1/4	19.88	1/4	364.42	1/4	720.78	1/4	1,067.22	1/4	1,419.88	1/4	1,775.92	1/4	2,131.27	1/4	2,487.31	1/4	2,843.07	1/4	3,198.78
1/2	24.53	1/2	371.84	1/2	728.20	1/2	1,074.35	1/2	1,427.30	1/2	1,783.32	1/2	2,138.68	1/2	2,494.72	1/2	2,850.48	1/2	3,206.16
3/4	29.18	3/4	379.27	3/4	735.63	3/4	1,081.47	3/4	1,434.71	3/4	1,790.72	3/4	2,146.10	3/4	2,502.13	3/4	2,857.89	3/4	3,213.54
1	33.83	1	386.69	1	743.05	1	1,088.60	1	1,442.13	1	1,798.13	1	2,153.51	1	2,509.55	1	2,865.30	1	3,220.93
1/4	40.33	1/4	394.11	1/4	750.48	1/4	1,095.80	1/4	1,449.55	1/4	1,805.53	1/4	2,160.93	1/4	2,516.96	1/4	2,872.71	1/4	3,228.31
1/2	46.84	1/2	401.54	1/2	757.90	1/2	1,103.00	1/2	1,456.97	1/2	1,812.93	1/2	2,168.35	1/2	2,524.37	1/2	2,880.13	1/2	3,235.69
3/4	53.34	3/4	408.96	3/4	765.32	3/4	1,110.20	3/4	1,464.39	3/4	1,820.33	3/4	2,175.76	3/4	2,531.78	3/4	2,887.54	3/4	3,243.07
2	59.85	2	416.39	2	772.75	2	1,117.40	2	1,471.81	2	1,827.74	2	2,183.18	2	2,539.20	2	2,894.95	2	3,250.46
1/4	67.24	1/4	423.81	1/4	780.17	1/4	1,124.60	1/4	1,479.23	1/4	1,835.14	1/4	2,190.59	1/4	2,546.61	1/4	2,902.36	1/4	3,257.84
1/2	74.64	1/2	431.23	1/2	787.60	1/2	1,131.79	1/2	1,486.65	1/2	1,842.54	1/2	2,198.01	1/2	2,554.02	1/2	2,909.77	1/2	3,265.22
3/4	82.04	3/4	438.66	3/4	795.02	3/4	1,138.99	3/4	1,494.07	3/4	1,849.95	3/4	2,205.43	3/4	2,561.43	3/4	2,917.18	3/4	3,272.61
3	89.44	3	446.08	3	802.44	3	1,146.19	3	1,501.49	3	1,857.35	3	2,212.84	3	2,568.85	3	2,924.59	3	3,279.99
1/4	96.87	1/4	453.51	1/4	809.81	1/4	1,153.40	1/4	1,508.91	1/4	1,864.75	1/4	2,220.26	1/4	2,576.26	1/4	2,932.00	1/4	3,287.37
1/2	104.29	1/2	460.93	1/2	817.17	1/2	1,160.62	1/2	1,516.33	1/2	1,872.16	1/2	2,227.67	1/2	2,583.67	1/2	2,939.41	1/2	3,294.75
3/4	111.72	3/4	468.36	3/4	824.53	3/4	1,167.83	3/4	1,523.74	3/4	1,879.56	3/4	2,235.09	3/4	2,591.08	3/4	2,946.83	3/4	3,302.14
4	119.15	4	475.78	4	831.89	4	1,175.04	4	1,531.16	4	1,886.96	4	2,242.50	4	2,598.49	4	2,954.24	4	3,309.52
1/4	126.58	1/4	483.20	1/4	839.04	1/4	1,182.46	1/4	1,538.58	1/4	1,894.36	1/4	2,249.92	1/4	2,605.91	1/4	2,961.65	1/4	3,316.90
1/2	134.01	1/2	490.63	1/2	846.19	1/2	1,189.88	1/2	1,546.00	1/2	1,901.77	1/2	2,257.34	1/2	2,613.32	1/2	2,969.06	1/2	3,324.28
3/4	141.45	3/4	498.05	3/4	853.34	3/4	1,197.30	3/4	1,553.42	3/4	1,909.17	3/4	2,264.75	3/4	2,620.73	3/4	2,976.47	3/4	3,331.67
5	148.88	5	505.48	5	860.49	5	1,204.72	5	1,560.84	5	1,916.57	5	2,272.17	5	2,628.14	5	2,983.88	5	3,339.05
1/4	156.32	1/4	512.90	1/4	867.62	1/4	1,212.14	1/4	1,568.26	1/4	1,923.98	1/4	2,279.59	1/4	2,635.56	1/4	2,991.29	1/4	3,346.43
1/2	163.75	1/2	520.33	1/2	874.75	1/2	1,219.56	1/2	1,575.68	1/2	1,931.38	1/2	2,287.01	1/2	2,642.97	1/2	2,998.70	1/2	3,353.81
3/4	171.19	3/4	527.75	3/4	881.88	3/4	1,226.98	3/4	1,583.10	3/4	1,938.78	3/4	2,294.43	3/4	2,650.38	3/4	3,006.12	3/4	3,361.19
6	178.63	6	535.17	6	889.01	6	1,234.40	6	1,590.52	6	1,946.19	6	2,301.85	6	2,657.79	6	3,013.53	6	3,368.56
1/4	186.06	1/4	542.60	1/4	896.14	1/4	1,241.82	1/4	1,597.94	1/4	1,953.59	1/4	2,309.27	1/4	2,665.20	1/4	3,020.94	1/4	3,375.93
1/2	193.50	1/2	550.02	1/2	903.26	1/2	1,249.23	1/2	1,605.36	1/2	1,960.99	1/2	2,316.70	1/2	2,672.61	1/2	3,028.35	1/2	3,383.30
3/4	200.93	3/4	557.45	3/4	910.39	3/4	1,256.65	3/4	1,612.78	3/4	1,968.39	3/4	2,324.12	3/4	2,680.02	3/4	3,035.76	3/4	3,390.67
7	208.37	7	564.87	7	917.52	7	1,264.07	7	1,620.19	7	1,975.80	7	2,331.54	7	2,687.43	7	3,043.17	7	3,398.04
1/4	215.81	1/4	572.29	1/4	924.65	1/4	1,271.49	1/4	1,627.61	1/4	1,983.20	1/4	2,338.96	1/4	2,694.85	1/4	3,050.58	1/4	3,405.18
1/2	223.24	1/2	579.72	1/2	931.78	1/2	1,278.91	1/2	1,635.03	1/2	1,990.60	1/2	2,346.38	1/2	2,702.26	1/2	3,057.99	1/2	3,412.33
3/4	230.68	3/4	587.14	3/4	938.91	3/4	1,286.33	3/4	1,642.45	3/4	1,998.01	3/4	2,353.80	3/4	2,709.67	3/4	3,065.41	3/4	3,419.47
8	238.11	8	594.57	8	946.03	8	1,293.75	8	1,649.87	8	2,005.41	8	2,361.23	8	2,717.08	8	3,072.82	8	3,426.61
1/4	245.55	1/4	601.99	1/4	953.16	1/4	1,301.17	1/4	1,657.29	1/4	2,012.81	1/4	2,368.65	1/4	2,724.49	1/4	3,080.23	1/4	3,433.28
1/2	252.98	1/2	609.42	1/2	960.29	1/2	1,308.59	1/2	1,664.71	1/2	2,020.22	1/2	2,376.07	1/2	2,731.90	1/2	3,087.64	1/2	3,439.94
3/4	260.42	3/4	616.84	3/4	967.42	3/4	1,316.01	3/4	1,672.13	3/4	2,027.62	3/4	2,383.49	3/4	2,739.31	3/4	3,095.05	3/4	3,446.61
9	267.86	9	624.26	9	974.55	9	1,323.43	9	1,679.55	9	2,035.02	9	2,390.91	9	2,746.72	9	3,102.46	9	3,453.27
1/4	275.29	1/4	631.69	1/4	981.68	1/4	1,330.85	1/4	1,686.97	1/4	2,042.42	1/4	2,398.33	1/4	2,754.13	1/4	3,109.87	1/4	3,459.46
1/2	282.73	1/2	639.11	1/2	988.80	1/2	1,338.26	1/2	1,694.39	1/2	2,049.81	1/2	2,405.75	1/2	2,761.55	1/2	3,117.28	1/2	3,465.65
3/4	290.16	3/4	646.54	3/4	995.93	3/4	1,345.68	3/4	1,701.81	3/4	2,057.21	3/4	2,413.18	3/4	2,768.96	3/4	3,124.69	3/4	3,471.84
10	297.60	10	653.96	10	1,003.06	10	1,353.10	10	1,709.22	10	2,064.60	10	2,420.60	10	2,776.37	10	3,132.11	10	3,478.03
1/4	305.02	1/4	661.39	1/4	1,010.19	1/4	1,360.52	1/4	1,716.64	1/4	2,072.00	1/4	2,428.01	1/4	2,783.78	1/4	3,139.52	1/4	3,483.76
1/2	312.45	1/2	668.81	1/2	1,017.32	1/2	1,367.94	1/2	1,724.06	1/2	2,079.40	1/2	2,435.42	1/2	2,791.19	1/2	3,146.93	1/2	3,489.48
3/4	319.87	3/4	676.23	3/4	1,024.45	3/4	1,375.36	3/4	1,731.48	3/4	2,086.79	3/4	2,442.83	3/4	2,798.60	3/4	3,154.34	3/4	3,495.20
11	327.30	11	683.66	11	1,031.58	11	1,382.78	11	1,738.90	11	2,094.19	11	2,450.25	11	2,806.01	11	3,161.75	11	3,500.93
1/4	334.72	1/4	691.08	1/4	1,038.70	1/4	1,390.20	1/4	1,746.30	1/4	2,101.60	1/4	2,457.66	1/4	2,813.42	1/4	3,169.16	1/4	3,506.17
1/2	342.14	1/2	698.51	1/2	1,045.83	1/2	1,397.62	1/2	1,753.71	1/2	2,109.02	1/2	2,465.07	1/2	2,820.84	1/2	3,176.57	1/2	3,511.42
3/4	349.57	3/4	705.93	3/4	1,052.96	3/4	1,405.04	3/4	1,761.11	3/4	2,116.44	3/4	2,472.48	3/4	2,828.25	3/4	3,183.98	3/4	3,516.66

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'-03" FORWARD OF AFT BULKHEAD.

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

BARGE "E2MS 313"

3 PORT

INNAGE TABLE

HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,521.90	0	3,741.96	0	3,960.65	0	4,179.13	0	4,396.52	0		0		0		0		0	
1/4	3,526.71	1/4	3,746.52	1/4	3,965.20	1/4	4,183.69	1/4	4,400.99	1/4		1/4		1/4		1/4		1/4	
1/2	3,531.51	1/2	3,751.09	1/2	3,969.75	1/2	4,188.24	1/2	4,405.45	1/2		1/2		1/2		1/2		1/2	
3/4	3,536.32	3/4	3,755.65	3/4	3,974.30	3/4	4,192.79	3/4	4,409.92	3/4		3/4		3/4		3/4		3/4	
1	3,541.12	1	3,760.22	1	3,978.85	1	4,197.34	1	4,414.38	1		1		1		1		1	
1/4	3,545.68	1/4	3,764.78	1/4	3,983.41	1/4	4,201.89	1/4	4,418.32	1/4		1/4		1/4		1/4		1/4	
1/2	3,550.25	1/2	3,769.34	1/2	3,987.96	1/2	4,206.44	1/2	4,422.26	1/2		1/2		1/2		1/2		1/2	
3/4	3,554.81	3/4	3,773.91	3/4	3,992.51	3/4	4,211.00	3/4	4,426.20	3/4		3/4		3/4		3/4		3/4	
2	3,559.38	2	3,778.47	2	3,997.06	2	4,215.55	2	4,430.13	2		2		2		2		2	
1/4	3,563.94	1/4	3,783.04	1/4	4,001.61	1/4	4,220.10	1/4	4,433.31	1/4		1/4		1/4		1/4		1/4	
1/2	3,568.51	1/2	3,787.60	1/2	4,006.16	1/2	4,224.65	1/2	4,436.49	1/2		1/2		1/2		1/2		1/2	
3/4	3,573.07	3/4	3,792.17	3/4	4,010.72	3/4	4,229.20	3/4	4,439.66	3/4		3/4		3/4		3/4		3/4	
3	3,577.64	3	3,796.73	3	4,015.27	3	4,233.75	3	4,442.84	3		3		3		3		3	
1/4	3,582.20	1/4	3,801.30	1/4	4,019.82	1/4	4,238.31	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,586.76	1/2	3,805.86	1/2	4,024.37	1/2	4,242.86	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,591.33	3/4	3,810.42	3/4	4,028.92	3/4	4,247.41	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,595.89	4	3,814.99	4	4,033.48	4	4,251.96	4		4		4		4		4		4	
1/4	3,600.46	1/4	3,819.54	1/4	4,038.03	1/4	4,256.51	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,605.02	1/2	3,824.09	1/2	4,042.58	1/2	4,261.07	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,609.59	3/4	3,828.64	3/4	4,047.13	3/4	4,265.62	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,614.15	5	3,833.20	5	4,051.68	5	4,270.17	5		5		5		5		5		5	
1/4	3,618.72	1/4	3,837.75	1/4	4,056.23	1/4	4,274.72	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,623.28	1/2	3,842.30	1/2	4,060.79	1/2	4,279.27	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,627.84	3/4	3,846.85	3/4	4,065.34	3/4	4,283.82	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,632.41	6	3,851.40	6	4,069.89	6	4,288.38	6		6		6		6		6		6	
1/4	3,636.97	1/4	3,855.96	1/4	4,074.44	1/4	4,292.88	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,641.54	1/2	3,860.51	1/2	4,078.99	1/2	4,297.39	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,646.10	3/4	3,865.06	3/4	4,083.55	3/4	4,301.90	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,650.67	7	3,869.61	7	4,088.10	7	4,306.40	7		7		7		7		7		7	
1/4	3,655.23	1/4	3,874.16	1/4	4,092.65	1/4	4,310.91	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,659.80	1/2	3,878.71	1/2	4,097.20	1/2	4,315.42	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,664.36	3/4	3,883.27	3/4	4,101.75	3/4	4,319.93	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,668.93	8	3,887.82	8	4,106.30	8	4,324.43	8		8		8		8		8		8	
1/4	3,673.49	1/4	3,892.37	1/4	4,110.86	1/4	4,328.94	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,678.05	1/2	3,896.92	1/2	4,115.41	1/2	4,333.45	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,682.62	3/4	3,901.47	3/4	4,119.96	3/4	4,337.95	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,687.18	9	3,906.03	9	4,124.51	9	4,342.46	9		9		9		9		9		9	
1/4	3,691.75	1/4	3,910.58	1/4	4,129.06	1/4	4,346.97	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,696.31	1/2	3,915.13	1/2	4,133.62	1/2	4,351.48	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,700.88	3/4	3,919.68	3/4	4,138.17	3/4	4,355.99	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,705.44	10	3,924.23	10	4,142.72	10	4,360.49	10		10		10		10		10		10	
1/4	3,710.01	1/4	3,928.78	1/4	4,147.27	1/4	4,365.00	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,714.57	1/2	3,933.34	1/2	4,151.82	1/2	4,369.51	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,719.13	3/4	3,937.89	3/4	4,156.37	3/4	4,374.02	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,723.70	11	3,942.44	11	4,160.93	11	4,378.53	11		11		11		11		11		11	
1/4	3,728.26	1/4	3,946.99	1/4	4,165.48	1/4	4,383.03	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,732.83	1/2	3,951.54	1/2	4,170.03	1/2	4,387.53	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,737.39	3/4	3,956.10	3/4	4,174.58	3/4	4,392.02	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/11/2019 CL
CALCULATED: 01/14/2019 CL
PRINTED: 01/15/2019 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2019

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

BARGE "E2MS 313"

3 STBD

INNAGE TABLE

HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	15.23	0	356.96	0	713.76	0	1,070.16	0	1,426.86	0	1,783.67	0	2,140.48	0	2,497.21	0	2,853.55	0	3,209.86
1/4	19.88	1/4	364.40	1/4	721.20	1/4	1,077.58	1/4	1,434.30	1/4	1,791.11	1/4	2,147.91	1/4	2,504.64	1/4	2,860.97	1/4	3,217.26
1/2	24.52	1/2	371.83	1/2	728.63	1/2	1,085.00	1/2	1,441.73	1/2	1,798.54	1/2	2,155.35	1/2	2,512.06	1/2	2,868.39	1/2	3,224.65
3/4	29.17	3/4	379.26	3/4	736.06	3/4	1,092.42	3/4	1,449.16	3/4	1,805.97	3/4	2,162.78	3/4	2,519.49	3/4	2,875.82	3/4	3,232.05
1	33.81	1	386.70	1	743.50	1	1,099.84	1	1,456.60	1	1,813.41	1	2,170.21	1	2,526.91	1	2,883.24	1	3,239.44
1/4	40.32	1/4	394.13	1/4	750.93	1/4	1,107.26	1/4	1,464.03	1/4	1,820.84	1/4	2,177.65	1/4	2,534.33	1/4	2,890.66	1/4	3,246.84
1/2	46.82	1/2	401.56	1/2	758.36	1/2	1,114.69	1/2	1,471.47	1/2	1,828.27	1/2	2,185.08	1/2	2,541.76	1/2	2,898.09	1/2	3,254.23
3/4	53.32	3/4	409.00	3/4	765.79	3/4	1,122.12	3/4	1,478.90	3/4	1,835.71	3/4	2,192.51	3/4	2,549.18	3/4	2,905.51	3/4	3,261.63
2	59.82	2	416.43	2	773.23	2	1,129.55	2	1,486.33	2	1,843.14	2	2,199.95	2	2,556.61	2	2,912.93	2	3,269.02
1/4	67.22	1/4	423.86	1/4	780.66	1/4	1,136.97	1/4	1,493.77	1/4	1,850.57	1/4	2,207.38	1/4	2,564.03	1/4	2,920.36	1/4	3,276.42
1/2	74.62	1/2	431.30	1/2	788.09	1/2	1,144.40	1/2	1,501.20	1/2	1,858.01	1/2	2,214.82	1/2	2,571.46	1/2	2,927.78	1/2	3,283.81
3/4	82.02	3/4	438.73	3/4	795.53	3/4	1,151.83	3/4	1,508.63	3/4	1,865.44	3/4	2,222.25	3/4	2,578.88	3/4	2,935.20	3/4	3,291.21
3	89.41	3	446.16	3	802.96	3	1,159.26	3	1,516.07	3	1,872.87	3	2,229.68	3	2,586.30	3	2,942.63	3	3,298.60
1/4	96.84	1/4	453.60	1/4	810.39	1/4	1,166.69	1/4	1,523.50	1/4	1,880.31	1/4	2,237.12	1/4	2,593.73	1/4	2,950.05	1/4	3,306.00
1/2	104.26	1/2	461.03	1/2	817.83	1/2	1,174.13	1/2	1,530.93	1/2	1,887.74	1/2	2,244.55	1/2	2,601.15	1/2	2,957.47	1/2	3,313.39
3/4	111.68	3/4	468.46	3/4	825.26	3/4	1,181.56	3/4	1,538.37	3/4	1,895.17	3/4	2,251.98	3/4	2,608.58	3/4	2,964.90	3/4	3,320.79
4	119.10	4	475.90	4	832.69	4	1,188.99	4	1,545.80	4	1,902.61	4	2,259.42	4	2,616.00	4	2,972.32	4	3,328.18
1/4	126.54	1/4	483.33	1/4	840.13	1/4	1,196.43	1/4	1,553.23	1/4	1,910.04	1/4	2,266.85	1/4	2,623.43	1/4	2,979.74	1/4	3,335.58
1/2	133.97	1/2	490.76	1/2	847.56	1/2	1,203.86	1/2	1,560.67	1/2	1,917.48	1/2	2,274.28	1/2	2,630.85	1/2	2,987.17	1/2	3,342.97
3/4	141.40	3/4	498.20	3/4	854.99	3/4	1,211.29	3/4	1,568.10	3/4	1,924.91	3/4	2,281.72	3/4	2,638.27	3/4	2,994.59	3/4	3,350.37
5	148.83	5	505.63	5	862.43	5	1,218.73	5	1,575.53	5	1,932.34	5	2,289.15	5	2,645.70	5	3,002.01	5	3,357.76
1/4	156.26	1/4	513.06	1/4	869.85	1/4	1,226.16	1/4	1,582.97	1/4	1,939.78	1/4	2,296.58	1/4	2,653.12	1/4	3,009.43	1/4	3,365.15
1/2	163.70	1/2	520.50	1/2	877.27	1/2	1,233.59	1/2	1,590.40	1/2	1,947.21	1/2	2,304.02	1/2	2,660.54	1/2	3,016.86	1/2	3,372.54
3/4	171.13	3/4	527.93	3/4	884.68	3/4	1,241.03	3/4	1,597.83	3/4	1,954.64	3/4	2,311.45	3/4	2,667.97	3/4	3,024.28	3/4	3,379.93
6	178.56	6	535.36	6	892.10	6	1,248.46	6	1,605.27	6	1,962.08	6	2,318.88	6	2,675.39	6	3,031.70	6	3,387.33
1/4	186.00	1/4	542.80	1/4	899.52	1/4	1,255.89	1/4	1,612.70	1/4	1,969.51	1/4	2,326.32	1/4	2,682.81	1/4	3,039.13	1/4	3,394.71
1/2	193.43	1/2	550.23	1/2	906.94	1/2	1,263.33	1/2	1,620.14	1/2	1,976.94	1/2	2,333.75	1/2	2,690.24	1/2	3,046.55	1/2	3,402.09
3/4	200.86	3/4	557.66	3/4	914.36	3/4	1,270.76	3/4	1,627.57	3/4	1,984.38	3/4	2,341.18	3/4	2,697.66	3/4	3,053.97	3/4	3,409.47
7	208.30	7	565.10	7	921.78	7	1,278.19	7	1,635.00	7	1,991.81	7	2,348.62	7	2,705.08	7	3,061.40	7	3,416.85
1/4	215.73	1/4	572.53	1/4	929.20	1/4	1,285.63	1/4	1,642.44	1/4	1,999.24	1/4	2,356.05	1/4	2,712.51	1/4	3,068.82	1/4	3,424.01
1/2	223.16	1/2	579.96	1/2	936.62	1/2	1,293.06	1/2	1,649.87	1/2	2,006.68	1/2	2,363.49	1/2	2,719.93	1/2	3,076.24	1/2	3,431.16
3/4	230.60	3/4	587.40	3/4	944.04	3/4	1,300.49	3/4	1,657.30	3/4	2,014.11	3/4	2,370.92	3/4	2,727.35	3/4	3,083.67	3/4	3,438.32
8	238.03	8	594.83	8	951.46	8	1,307.93	8	1,664.74	8	2,021.54	8	2,378.35	8	2,734.78	8	3,091.09	8	3,445.47
1/4	245.46	1/4	602.26	1/4	958.87	1/4	1,315.36	1/4	1,672.17	1/4	2,028.98	1/4	2,385.79	1/4	2,742.20	1/4	3,098.51	1/4	3,452.15
1/2	252.90	1/2	609.70	1/2	966.29	1/2	1,322.80	1/2	1,679.60	1/2	2,036.41	1/2	2,393.22	1/2	2,749.62	1/2	3,105.94	1/2	3,458.83
3/4	260.33	3/4	617.13	3/4	973.71	3/4	1,330.23	3/4	1,687.04	3/4	2,043.84	3/4	2,400.65	3/4	2,757.05	3/4	3,113.36	3/4	3,465.50
9	267.76	9	624.56	9	981.13	9	1,337.66	9	1,694.47	9	2,051.28	9	2,408.09	9	2,764.47	9	3,120.78	9	3,472.18
1/4	275.20	1/4	632.00	1/4	988.55	1/4	1,345.10	1/4	1,701.90	1/4	2,058.71	1/4	2,415.52	1/4	2,771.89	1/4	3,128.21	1/4	3,478.38
1/2	282.63	1/2	639.43	1/2	995.97	1/2	1,352.53	1/2	1,709.34	1/2	2,066.15	1/2	2,422.95	1/2	2,779.32	1/2	3,135.63	1/2	3,484.58
3/4	290.06	3/4	646.86	3/4	1,003.39	3/4	1,359.96	3/4	1,716.77	3/4	2,073.58	3/4	2,430.39	3/4	2,786.74	3/4	3,143.05	3/4	3,490.78
10	297.50	10	654.30	10	1,010.81	10	1,367.40	10	1,724.20	10	2,081.01	10	2,437.82	10	2,794.16	10	3,150.48	10	3,496.98
1/4	304.93	1/4	661.73	1/4	1,018.23	1/4	1,374.83	1/4	1,731.64	1/4	2,088.45	1/4	2,445.24	1/4	2,801.59	1/4	3,157.90	1/4	3,502.70
1/2	312.36	1/2	669.16	1/2	1,025.65	1/2	1,382.26	1/2	1,739.07	1/2	2,095.88	1/2	2,452.67	1/2	2,809.01	1/2	3,165.32	1/2	3,508.42
3/4	319.80	3/4	676.60	3/4	1,033.06	3/4	1,389.70	3/4	1,746.50	3/4	2,103.31	3/4	2,460.09	3/4	2,816.43	3/4	3,172.75	3/4	3,514.15
11	327.23	11	684.03	11	1,040.48	11	1,397.13	11	1,753.94	11	2,110.75	11	2,467.52	11	2,823.85	11	3,180.17	11	3,519.87
1/4	334.66	1/4	691.46	1/4	1,047.90	1/4	1,404.56	1/4	1,761.37	1/4	2,118.18	1/4	2,474.94	1/4	2,831.28	1/4	3,187.59	1/4	3,525.11
1/2	342.10	1/2	698.90	1/2	1,055.32	1/2	1,412.00	1/2	1,768.81	1/2	2,125.61	1/2	2,482.37	1/2	2,838.70	1/2	3,195.01	1/2	3,530.35
3/4	349.53	3/4	706.33	3/4	1,062.74	3/4	1,419.43	3/4	1,776.24	3/4	2,133.05	3/4	2,489.79	3/4	2,846.12	3/4	3,202.44	3/4	3,535.60

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'-03" FORWARD OF AFT BULKHEAD.

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

BARGE "E2MS 313"

3 STBD

INNAGE TABLE
HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,540.84	0	3,760.85	0	3,979.50	0	4,197.95	0	4,415.29	0		0		0		0		0	
1/4	3,545.64	1/4	3,765.41	1/4	3,984.05	1/4	4,202.50	1/4	4,419.75	1/4		1/4		1/4		1/4		1/4	
1/2	3,550.45	1/2	3,769.98	1/2	3,988.60	1/2	4,207.05	1/2	4,424.21	1/2		1/2		1/2		1/2		1/2	
3/4	3,555.25	3/4	3,774.54	3/4	3,993.15	3/4	4,211.60	3/4	4,428.68	3/4		3/4		3/4		3/4		3/4	
1	3,560.05	1	3,779.10	1	3,997.70	1	4,216.15	1	4,433.14	1		1		1		1		1	
1/4	3,564.61	1/4	3,783.67	1/4	4,002.25	1/4	4,220.70	1/4	4,437.08	1/4		1/4		1/4		1/4		1/4	
1/2	3,569.18	1/2	3,788.23	1/2	4,006.81	1/2	4,225.25	1/2	4,441.01	1/2		1/2		1/2		1/2		1/2	
3/4	3,573.74	3/4	3,792.79	3/4	4,011.36	3/4	4,229.80	3/4	4,444.95	3/4		3/4		3/4		3/4		3/4	
2	3,578.31	2	3,797.36	2	4,015.91	2	4,234.36	2	4,448.89	2		2		2		2		2	
1/4	3,582.87	1/4	3,801.92	1/4	4,020.46	1/4	4,238.91	1/4	4,452.06	1/4		1/4		1/4		1/4		1/4	
1/2	3,587.43	1/2	3,806.49	1/2	4,025.01	1/2	4,243.46	1/2	4,455.24	1/2		1/2		1/2		1/2		1/2	
3/4	3,592.00	3/4	3,811.05	3/4	4,029.56	3/4	4,248.01	3/4	4,458.41	3/4		3/4		3/4		3/4		3/4	
3	3,596.56	3	3,815.61	3	4,034.11	3	4,252.56	3	4,461.59	3		3		3		3		3	
1/4	3,601.12	1/4	3,820.18	1/4	4,038.66	1/4	4,257.11	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,605.69	1/2	3,824.74	1/2	4,043.21	1/2	4,261.66	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,610.25	3/4	3,829.30	3/4	4,047.76	3/4	4,266.21	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,614.81	4	3,833.87	4	4,052.32	4	4,270.76	4		4		4		4		4		4	
1/4	3,619.38	1/4	3,838.42	1/4	4,056.87	1/4	4,275.31	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,623.94	1/2	3,842.97	1/2	4,061.42	1/2	4,279.87	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,628.51	3/4	3,847.52	3/4	4,065.97	3/4	4,284.42	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,633.07	5	3,852.07	5	4,070.52	5	4,288.97	5		5		5		5		5		5	
1/4	3,637.63	1/4	3,856.62	1/4	4,075.07	1/4	4,293.52	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,642.20	1/2	3,861.17	1/2	4,079.62	1/2	4,298.07	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,646.76	3/4	3,865.72	3/4	4,084.17	3/4	4,302.62	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,651.32	6	3,870.28	6	4,088.72	6	4,307.17	6		6		6		6		6		6	
1/4	3,655.89	1/4	3,874.83	1/4	4,093.27	1/4	4,311.68	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,660.45	1/2	3,879.38	1/2	4,097.83	1/2	4,316.18	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,665.01	3/4	3,883.93	3/4	4,102.38	3/4	4,320.69	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,669.58	7	3,888.48	7	4,106.93	7	4,325.19	7		7		7		7		7		7	
1/4	3,674.14	1/4	3,893.03	1/4	4,111.48	1/4	4,329.70	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,678.70	1/2	3,897.58	1/2	4,116.03	1/2	4,334.21	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,683.27	3/4	3,902.13	3/4	4,120.58	3/4	4,338.71	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,687.83	8	3,906.68	8	4,125.13	8	4,343.22	8		8		8		8		8		8	
1/4	3,692.40	1/4	3,911.23	1/4	4,129.68	1/4	4,347.72	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,696.96	1/2	3,915.79	1/2	4,134.23	1/2	4,352.23	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,701.52	3/4	3,920.34	3/4	4,138.78	3/4	4,356.73	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,706.09	9	3,924.89	9	4,143.34	9	4,361.24	9		9		9		9		9		9	
1/4	3,710.65	1/4	3,929.44	1/4	4,147.89	1/4	4,365.75	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,715.21	1/2	3,933.99	1/2	4,152.44	1/2	4,370.26	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,719.78	3/4	3,938.54	3/4	4,156.99	3/4	4,374.76	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,724.34	10	3,943.09	10	4,161.54	10	4,379.27	10		10		10		10		10		10	
1/4	3,728.90	1/4	3,947.64	1/4	4,166.09	1/4	4,383.78	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,733.47	1/2	3,952.19	1/2	4,170.64	1/2	4,388.28	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,738.03	3/4	3,956.74	3/4	4,175.19	3/4	4,392.79	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,742.60	11	3,961.30	11	4,179.74	11	4,397.29	11		11		11		11		11		11	
1/4	3,747.16	1/4	3,965.85	1/4	4,184.29	1/4	4,401.79	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,751.72	1/2	3,970.40	1/2	4,188.85	1/2	4,406.29	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,756.29	3/4	3,974.95	3/4	4,193.40	3/4	4,410.79	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/11/2019 CL
CALCULATED: 01/14/2019 CL
PRINTED: 01/15/2019 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2019

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

BARGE "E2MS 313"

FUEL TANK

INNAGE TABLE

CAPACITIES GIVEN IN WHOLE 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	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	

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.

STRAPPED: 01/11/2019 CL
CALCULATED: 01/14/2019 CL
PRINTED: 01/15/2019 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2019

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

BARGE "E2MS 313"

SLOP TANK

INNAGE TABLE

CAPACITIES GIVEN IN WHOLE 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	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	

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ALL PRIOR TO 07/2018

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