BARGE "E2MS 313"

ULLAGE (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 ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 3'-11 7/8"

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

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	4,850.37	0	4,494.58	0	4,137.91	0	3,780.63	0	3,422.91	0	3,065.19	0	2,707.47	0	2,349.69
1/4		1/4		1/4	4,843.01	1/4	4,487.15	1/4	4,130.48	1/4	3,773.18	1/4	3,415.46	1/4	3,057.74	1/4	2,700.02	1/4	2,342.23
1/2		1/2		1/2	4,835.66	1/2	4,479.72	1/2	4,123.05	1/2	3,765.73	1/2	3,408.01	1/2	3,050.29	1/2	2,692.57	1/2	2,334.78
3/4		3/4		3/4	4,828.30	3/4	4,472.29	3/4	4,115.62	3/4	3,758.27	3/4	3,400.55	3/4	3,042.83	3/4	2,685.11	3/4	2,327.32
1		1		1	4,820.94	1	4,464.86	1	4,108.19	1	3,750.82	1	3,393.10	1	3,035.38	1	2,677.66	1	2,319.87
1/4		1/4		1/4	4,813.59	1/4	4,457.43	1/4	4,100.76	1/4	3,743.37	1/4	3,385.65	1/4	3,027.93	1/4	2,670.21	1/4	2,312.42
1/2		1/2		1/2	4,806.23	1/2	4,450.00	1/2	4,093.33	1/2	3,735.92	1/2	3,378.20	1/2	3,020.48	1/2	2,662.76	1/2	2,304.96
3/4		3/4		3/4	4,798.87	3/4	4,442.57	3/4	4,085.90	3/4	3,728.46	3/4	3,370.74	3/4	3,013.02	3/4	2,655.30	3/4	2,297.51
2		2		2	4,791.51	2	4,435.14	2	4,078.47	2	3,721.01	2	3,363.29	2	3,005.57	2	2,647.85	2	2,290.05
1/4		1/4		1/4	4,784.16	1/4	4,427.71	1/4	4,071.04	1/4	3,713.56	1/4	3,355.84	1/4	2,998.12	1/4	2,640.40	1/4	2,282.60
1/2		1/2		1/2	4,776.80	1/2	4,420.28	1/2	4,063.61	1/2	3,706.11	1/2	3,348.39	1/2	2,990.67	1/2	2,632.95	1/2	2,275.14
3/4		3/4		3/4	4,769.44	3/4	4,412.85	3/4	4,056.18	3/4	3,698.65	3/4	3,340.93	3/4	2,983.21	3/4	2,625.49	3/4	2,267.69
3		3		3	4,762.08	3	4,405.42	3	4,048.75	3	3,691.20	3	3,333.48	3	2,975.76	3	2,618.04	3	2,260.23
1/4		1/4		1/4	4,754.65	1/4	4,397.98	1/4	4,041.32	1/4	3,683.75	1/4	3,326.03	1/4	2,968.31	1/4	2,610.59	1/4	2,252.78
1/2		1/2		1/2	4,747.22	1/2	4,390.55	1/2	4,033.89	1/2	3,676.30	1/2	3,318.58	1/2	2,960.86	1/2	2,603.14	1/2	2,245.32
3/4		3/4		3/4	4,739.79	3/4	4,383.12	3/4	4,026.45	3/4	3,668.84	3/4	3,311.12	3/4	2,953.40	3/4	2,595.68	3/4	2,237.87
4		4		4	4,732.36	4	4,375.69	4	4,019.02	4	3,661.39	4	3,303.67	4	2,945.95	4	2,588.23	4	2,230.42
1/4		1/4		1/4	4,724.93	1/4	4,368.26	1/4	4,011.59	1/4	3,653.94	1/4	3,296.22	1/4	2,938.50	1/4	2,580.78	1/4	2,222.96
1/2		1/2		1/2	4,717.50	1/2	4,360.83	1/2	4,004.16	1/2	3,646.49	1/2	3,288.77	1/2	2,931.05	1/2	2,573.32	1/2	2,215.51
3/4		3/4		3/4	4,710.07	3/4	4,353.40	3/4	3,996.73	3/4	3,639.03	3/4	3,281.31	3/4	2,923.59	3/4	2,565.87	3/4	2,208.05
5		5		5	4,702.64	5	4,345.97	5	3,989.30	5	3,631.58	5	3,273.86	5	2,916.14	5	2,558.41	5	2,200.60
1/4		1/4		1/4	4,695.21	1/4	4,338.54	1/4	3,981.85	1/4	3,624.13	1/4	3,266.41	1/4	2,908.69	1/4	2,550.96	1/4	2,193.14
1/2		1/2		1/2	4,687.78	1/2	4,331.11	1/2	3,974.40	1/2	3,616.68	1/2	3,258.96	1/2	2,901.24	1/2	2,543.50	1/2	2,185.69
3/4		3/4		3/4	4,680.35	3/4	4,323.68	3/4	3,966.94	3/4	3,609.22	3/4	3,251.50	3/4	2,893.78	3/4	2,536.05	3/4	2,178.23
6		6	5,014.21	6	4,672.92	6	4,316.25	6	3,959.49	6	3,601.77	6	3,244.05	6	2,886.33	6	2,528.60	6	2,170.78
1/4		1/4	5,009.03	1/4	4,665.49	1/4	4,308.82	1/4	3,952.04	1/4	3,594.32	1/4	3,236.60	1/4	2,878.88	1/4	2,521.14	1/4	2,163.33
1/2		1/2	5,003.84	1/2	4,658.06	1/2	4,301.39	1/2	3,944.59	1/2	3,586.87	1/2	3,229.15	1/2	2,871.43	1/2	2,513.69	1/2	2,155.87
3/4		3/4	4,998.66	3/4	4,650.63	3/4	4,293.96	3/4	3,937.13	3/4	3,579.41	3/4	3,221.69	3/4	2,863.97	3/4	2,506.23	3/4	2,148.42
7		7	4,993.47	7	4,643.19	7	4,286.53	7	3,929.68	7	3,571.96	7	3,214.24	7	2,856.52	7	2,498.78	7	2,140.96
1/4		1/4	4,987.04	1/4	4,635.76	1/4	4,279.10	1/4	3,922.23	1/4	3,564.51	1/4	3,206.79	1/4	2,849.07	1/4	2,491.32	1/4	2,133.51
1/2		1/2	4,980.62	1/2	4,628.33	1/2	4,271.66	1/2	3,914.78	1/2	3,557.06	1/2	3,199.34	1/2	2,841.62	1/2	2,483.87	1/2	2,126.05
3/4		3/4	4,974.19	3/4	4,620.90	3/4	4,264.23	3/4	3,907.32	3/4	3,549.60	3/4	3,191.88	3/4	2,834.16	3/4	2,476.41	3/4	2,118.60
8		8	4,967.76	8	4,613.47	8	4,256.80	8	3,899.87	8	3,542.15	8	3,184.43	8	2,826.71	8	2,468.96	8	2,111.14
1/4		1/4	4,960.47	1/4	4,606.04	1/4	4,249.37	1/4	3,892.42	1/4	3,534.70	1/4	3,176.98	1/4	2,819.26	1/4	2,461.51	1/4	2,103.69
1/2		1/2	4,953.18	1/2	4,598.61	1/2	4,241.94	1/2	3,884.97	1/2	3,527.25	1/2	3,169.53	1/2	2,811.81	1/2	2,454.05	1/2	2,096.23
3/4		3/4	4,945.90	3/4	4,591.18	3/4	4,234.51	3/4	3,877.51	3/4	3,519.79	3/4	3,162.07	3/4	2,804.35	3/4	2,446.60	3/4	2,088.78
9		9	4,938.61	9	4,583.75	9	4,227.08	9	3,870.06	9	3,512.34	9	3,154.62	9	2,796.90	9	2,439.14	9	2,081.33
1/4		1/4	4,931.26	1/4	4,576.32	1/4	4,219.65	1/4	3,862.61	1/4	3,504.89	1/4	3,147.17	1/4	2,789.45	1/4	2,431.69	1/4	2,073.87
1/2		1/2	4,923.92	1/2	4,568.89	1/2	4,212.22	1/2	3,855.16	1/2	3,497.44	1/2	3,139.72	1/2	2,782.00	1/2	2,424.23	1/2	2,066.42
3/4		3/4	4,916.57	3/4	4,561.46	3/4	4,204.79	3/4	3,847.70	3/4	3,489.98	3/4	3,132.26	3/4	2,774.54	3/4	2,416.78	3/4	2,058.96
10		10	4,909.23	10	4,554.03	10	4,197.36	10	3,840.25	10	3,482.53	10	3,124.81	10	2,767.09	10	2,409.32	10	2,051.51
1/4		1/4	4,901.87	1/4	4,546.60	1/4	4,189.93	1/4	3,832.80	1/4	3,475.08	1/4	3,117.36	1/4	2,759.64	1/4	2,401.87	1/4	2,044.05
1/2		1/2	4,894.52	1/2	4,539.17	1/2	4,182.50	1/2	3,825.35	1/2	3,467.63	1/2	3,109.91	1/2	2,752.19	1/2	2,394.41	1/2	2,036.60
3/4		3/4	4,887.16	3/4	4,531.74	3/4	4,175.07	3/4	3,817.89	3/4	3,460.17	3/4	3,102.45	3/4	2,744.73	3/4	2,386.96	3/4	2,029.14
11		11	4,879.81	11	4,524.30	11	4,167.64	11	3,810.44	11	3,452.72	11	3,095.00	11	2,737.28	11	2,379.51	11	2,021.69
1/4		1/4	4,872.45	1/4	4,516.87	1/4	4,160.21	1/4	3,802.99	1/4	3,445.27	1/4	3,087.55	1/4	2,729.83	1/4	2,372.05	1/4	2,014.24
1/2		1/2	4,865.09	1/2	4,509.44	1/2	4,152.77	1/2	3,795.54	1/2	3,437.82	1/2	3,080.10	1/2	2,722.38	1/2	2,364.60	1/2	2,006.78
3/4		3/4	4,857.73	3/4	4,502.01	3/4	4,145.34	3/4	3,788.08	3/4	3,430.36	3/4	3,072.64	3/4	2,714.92	3/4	2,357.14	3/4	1,999.33

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'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "E2MS 313"

1 PORT

ULLAGE 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	1,991.87	0	1,634.06	0	1,276.24	0	919.82	0	563.17	0	222.87	0		0		0		0	
1/4	1,984.42	1/4	1,626.60	1/4	1,268.79	1/4	912.42	1/4	555.72	1/4	216.34	1/4		1/4		1/4		1/4	
1/2	1,976.96	1/2	1,619.15	1/2	1,261.33	1/2	905.03	1/2	548.27	1/2	209.80	1/2		1/2		1/2		1/2	
3/4	1,969.51	3/4	1,611.69	3/4	1,253.88	3/4	897.63	3/4	540.82	3/4	203.27	3/4		3/4		3/4		3/4	
1	1,962.05	1	1,604.24	1	1,246.42	1	890.23	1	533.38	1	196.73	1		1		1		1	
1/4	1,954.60	1/4	1,596.78	1/4	1,238.97	1/4	882.84	1/4	525.92	1/4	190.28	1/4		1/4		1/4		1/4	
1/2	1,947.14	1/2	1,589.33	1/2	1,231.51	1/2	875.44	1/2	518.47	1/2	183.83	1/2		1/2		1/2		1/2	
3/4	1,939.69	3/4	1,581.87	3/4	1,224.06	3/4	868.05	3/4	511.01	3/4	177.38	3/4		3/4		3/4		3/4	
2	1,932.24	2	1,574.42	2	1,216.60	2	860.65	2	503.56	2	170.94	2		2		2		2	
1/4	1,924.78	1/4	1,566.97	1/4	1,209.15	1/4	853.26	1/4	496.15	1/4	164.57	1/4		1/4		1/4		1/4	
1/2	1,917.33	1/2	1,559.51	1/2	1,201.69	1/2	845.86	1/2	488.74	1/2	158.21	1/2		1/2		1/2		1/2	
3/4	1,909.87	3/4	1,552.06	3/4	1,194.24	3/4	838.47	3/4	481.33	3/4	151.85	3/4		3/4		3/4		3/4	
3	1,902.42	3	1,544.60	3	1,186.79	3	831.07	3	473.92	3	145.49	3		3		3		3	
1/4	1,894.96	1/4	1,537.15	1/4	1,179.33	1/4	823.67	1/4	466.59	1/4	139.22	1/4		1/4		1/4		1/4	
1/2	1,887.51	1/2	1,529.69	1/2	1,171.88	1/2	816.28	1/2	459.27	1/2	132.94	1/2		1/2		1/2		1/2	
3/4	1,880.05	3/4	1,522.24	3/4	1,164.42	3/4	808.88	3/4	451.95	3/4	126.67	3/4		3/4		3/4		3/4	
4	1,872.60	4	1,514.78	4	1,156.97	4	801.49	4	444.62	4	120.40	4		4		4		4	
1/4	1,865.15	1/4	1,507.33	1/4	1,149.51	1/4	794.08	1/4	437.39	1/4	114.21	1/4		1/4		1/4		1/4	
1/2	1,857.69	1/2	1,499.87	1/2	1,142.06	1/2	786.68	1/2	430.15	1/2	108.03	1/2		1/2		1/2		1/2	
3/4	1,850.24	3/4	1,492.42	3/4	1,134.60	3/4	779.27	3/4	422.92	3/4	101.84	3/4		3/4		3/4		3/4	
5	1,842.78	5	1,484.97	5	1,127.15	5	771.87	5	415.68	5	95.66	5		5		5		5	
1/4	1,835.33	1/4	1,477.51	1/4	1,119.73	1/4	764.42	1/4	408.53	1/4	89.57	1/4		1/4		1/4		1/4	
1/2	1,827.87	1/2	1,470.06	1/2	1,112.30	1/2	756.96	1/2	401.38	1/2	83.48	1/2		1/2		1/2		1/2	
3/4	1,820.42	3/4	1,462.60	3/4	1,104.88	3/4	749.51	3/4	394.23	3/4	77.39	3/4		3/4		3/4		3/4	
6	1,812.96	6	1,455.15	6	1,097.46	6	742.05	6	387.09	6	71.30	6		6		6		6	
1/4	1,805.51	1/4	1,447.69	1/4	1,090.03	1/4	734.60	1/4	380.03	1/4	65.33	1/4		1/4		1/4		1/4	
1/2	1,798.05	1/2	1,440.24	1/2	1,082.61	1/2	727.14	1/2	372.96	1/2	59.35	1/2		1/2		1/2		1/2	
3/4	1,790.60	3/4	1,432.78	3/4	1,075.19	3/4	719.69	3/4	365.90	3/4	53.38	3/4		3/4		3/4		3/4	
7	1,783.15	7	1,425.33	7	1,067.76	7	712.24	7	358.84	7	47.40	7		7		7		7	
1/4	1,775.69	1/4	1,417.88	1/4	1,060.36	1/4	704.78	1/4	351.87	1/4	42.41	1/4		1/4		1/4		1/4	
1/2	1,768.24	1/2	1,410.42	1/2	1,052.96	1/2	697.33	1/2	344.90	1/2	37.42	1/2		1/2		1/2		1/2	
3/4	1,760.78	3/4	1,402.97	3/4	1,045.55	3/4	689.87	3/4	337.92	3/4	32.43	3/4		3/4		3/4		3/4	
8	1,753.33	8	1,395.51	8	1,038.15	8	682.42	8	330.95	8	27.44	8		8		8		8	
1/4	1,745.87	1/4	1,388.06	1/4	1,030.75	1/4	674.96	1/4	324.06	1/4	24.40	1/4		1/4		1/4		1/4	
1/2	1,738.42	1/2	1,380.60	1/2	1,023.36	1/2	667.51	1/2	317.18	1/2	21.36	1/2		1/2		1/2		1/2	
3/4	1,730.96	3/4	1,373.15	3/4	1,015.96	3/4	660.06	3/4	310.29	3/4	18.32	3/4		3/4		3/4		3/4	
9	1,723.51	9	1,365.69	9	1,008.56	9	652.60	9	303.41	9	15.27	9		9		9		9	
1/4	1,716.06	1/4	1,358.24	1/4	1,001.17	1/4	645.15	1/4	296.61	1/4		1/4		1/4		1/4		1/4	
1/2	1,708.60	1/2	1,350.78	1/2	993.77	1/2	637.69	1/2	289.81	1/2		1/2		1/2		1/2		1/2	
3/4	1,701.15	3/4	1,343.33	3/4	986.38	3/4	630.24	3/4	283.01	3/4		3/4		3/4		3/4		3/4	
10	1,693.69	10	1,335.88	10	978.98	10	622.78	10	276.21	10		10		10		10		10	
1/4	1,686.24	1/4	1,328.42	1/4	971.59	1/4	615.33	1/4	269.50	1/4		1/4		1/4		1/4		1/4	
1/2	1,678.78	1/2	1,320.97	1/2	964.19	1/2	607.88	1/2	262.79	1/2		1/2		1/2		1/2		1/2	
3/4	1,671.33	3/4	1,313.51	3/4	956.79	3/4	600.42	3/4	256.08	3/4		3/4		3/4		3/4		3/4	
11	1,663.87	11	1,306.06	11	949.40	11	592.97	11	249.37	11		11		11		11		11	
1/4	1,656.42	1/4	1,298.60	1/4	942.00	1/4	585.52	1/4	242.74	1/4		1/4		1/4		1/4		1/4	
1/2	1,648.96	1/2	1,291.15	1/2	934.61	1/2	578.07	1/2	236.12	1/2		1/2		1/2		1/2		1/2	
3/4	1,641.51	3/4	1,283.69	3/4	927.21	3/4	570.62	3/4	229.50	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

ULLAGE 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		0		0	4,842.46	0	4,486.79	0	4,130.32	0	3,773.21	0	3,415.68	0	3,058.16	0	2,700.63	0	2,343.03
1/4		1/4		1/4	4,835.11	1/4	4,479.37	1/4	4,122.90	1/4	3,765.76	1/4	3,408.24	1/4	3,050.71	1/4	2,693.18	1/4	2,335.58
1/2		1/2		1/2	4,827.75	1/2	4,471.94	1/2	4,115.47	1/2	3,758.31	1/2	3,400.79	1/2	3,043.26	1/2	2,685.73	1/2	2,328.13
3/4		3/4		3/4	4,820.40	3/4	4,464.51	3/4	4,108.04	3/4	3,750.87	3/4	3,393.34	3/4	3,035.81	3/4	2,678.28	3/4	2,320.68
1		1		1	4,813.05	1	4,457.09	1	4,100.62	1	3,743.42	1	3,385.89	1	3,028.36	1	2,670.83	1	2,313.23
1/4		1/4		1/4	4,805.69	1/4	4,449.66	1/4	4,093.19	1/4	3,735.97	1/4	3,378.44	1/4	3,020.91	1/4	2,663.39	1/4	2,305.78
1/2		1/2		1/2	4,798.34	1/2	4,442.23	1/2	4,085.76	1/2	3,728.52	1/2	3,370.99	1/2	3,013.46	1/2	2,655.94	1/2	2,298.33
3/4		3/4		3/4	4,790.99	3/4	4,434.81	3/4	4,078.34	3/4	3,721.07	3/4	3,363.54	3/4	3,006.02	3/4	2,648.49	3/4	2,290.88
2		2		2	4,783.63	2	4,427.38	2	4,070.91	2	3,713.62	2	3,356.10	2	2,998.57	2	2,641.04	2	2,283.43
1/4		1/4		1/4	4,776.28	1/4	4,419.96	1/4	4,063.48	1/4	3,706.18	1/4	3,348.65	1/4	2,991.12	1/4	2,633.59	1/4	2,275.98
1/2		1/2		1/2	4,768.93	1/2	4,412.53	1/2	4,056.06	1/2	3,698.73	1/2	3,341.20	1/2	2,983.67	1/2	2,626.14	1/2	2,268.53
3/4		3/4		3/4	4,761.57	3/4	4,405.10	3/4	4,048.63	3/4	3,691.28	3/4	3,333.75	3/4	2,976.22	3/4	2,618.69	3/4	2,261.08
3		3		3	4,754.15	3	4,397.68	3	4,041.20	3	3,683.83	3	3,326.30	3	2,968.77	3	2,611.25	3	2,253.63
1/4		1/4		1/4	4,746.72	1/4	4,390.25	1/4	4,033.78	1/4	3,676.38	1/4	3,318.85	1/4	2,961.33	1/4	2,603.80	1/4	2,246.18
1/2		1/2		1/2	4,739.29	1/2	4,382.82	1/2	4,026.35	1/2	3,668.93	1/2	3,311.40	1/2	2,953.88	1/2	2,596.35	1/2	2,238.73
3/4		3/4		3/4	4,731.87	3/4	4,375.40	3/4	4,018.92	3/4	3,661.48	3/4	3,303.96	3/4	2,946.43	3/4	2,588.90	3/4	2,231.28
4		4		4	4,724.44	4	4,367.97	4	4,011.50	4	3,654.04	4	3,296.51	4	2,938.98	4	2,581.45	4	2,223.83
1/4		1/4		1/4	4,717.02	1/4	4,360.54	1/4	4,004.07	1/4	3,646.59	1/4	3,289.06	1/4	2,931.53	1/4	2,574.00	1/4	2,216.38
1/2		1/2		1/2	4,709.59	1/2	4,353.12	1/2	3,996.64	1/2	3,639.14	1/2	3,281.61	1/2	2,924.08	1/2	2,566.55	1/2	2,208.92
3/4		3/4		3/4	4,702.16	3/4	4,345.69	3/4	3,989.22	3/4	3,631.69	3/4	3,274.16	3/4	2,916.63	3/4	2,559.10	3/4	2,201.47
5		5		5	4,694.74	5	4,338.26	5	3,981.77	5	3,624.24	5	3,266.71	5	2,909.19	5	2,551.65	5	2,194.02
1/4		1/4		1/4	4,687.31	1/4	4,330.84	1/4	3,974.32	1/4	3,616.79	1/4	3,259.27	1/4	2,901.74	1/4	2,544.20	1/4	2,186.57
1/2		1/2		1/2	4,679.88	1/2	4,323.41	1/2	3,966.87	1/2	3,609.34	1/2	3,251.82	1/2	2,894.29	1/2	2,536.75	1/2	2,179.12
3/4		3/4	5,013.56	3/4	4,672.46	3/4	4,315.98	3/4	3,959.42	3/4	3,601.90	3/4	3,244.37	3/4	2,886.84	3/4	2,529.30	3/4	2,171.67
6		6	5,008.38	6	4,665.03	6	4,308.56	6	3,951.98	6	3,594.45	6	3,236.92	6	2,879.39	6	2,521.85	6	2,164.22
1/4		1/4	5,003.20	1/4	4,657.60	1/4	4,301.13	1/4	3,944.53	1/4	3,587.00	1/4	3,229.47	1/4	2,871.94	1/4	2,514.40	1/4	2,156.77
1/2		1/2	4,998.01	1/2	4,650.18	1/2	4,293.70	1/2	3,937.08	1/2	3,579.55	1/2	3,222.02	1/2	2,864.49	1/2	2,506.94	1/2	2,149.32
3/4		3/4	4,992.83	3/4	4,642.75	3/4	4,286.28	3/4	3,929.63	3/4	3,572.10	3/4	3,214.57	3/4	2,857.05	3/4	2,499.49	3/4	2,141.87
7		7	4,986.41	7	4,635.32	7	4,278.85	7	3,922.18	7	3,564.65	7	3,207.13	7	2,849.60	7	2,492.04	7	2,134.42
1/4		1/4	4,979.99	1/4	4,627.90	1/4	4,271.43	1/4	3,914.73	1/4	3,557.21	1/4	3,199.68	1/4	2,842.15	1/4	2,484.59	1/4	2,126.97
1/2		1/2	4,973.56	1/2	4,620.47	1/2	4,264.00	1/2	3,907.28	1/2	3,549.76	1/2	3,192.23	1/2	2,834.70	1/2	2,477.14	1/2	2,119.52
3/4		3/4	4,967.14	3/4	4,613.04	3/4	4,256.57	3/4	3,899.84	3/4	3,542.31	3/4	3,184.78	3/4	2,827.25	3/4	2,469.69	3/4	2,112.07
8		8	4,959.85	8	4,605.62	8	4,249.15	8	3,892.39	8	3,534.86	8	3,177.33	8	2,819.80	8	2,462.24	8	2,104.62
1/4		1/4	4,952.57	1/4	4,598.19	1/4	4,241.72	1/4	3,884.94	1/4	3,527.41	1/4	3,169.88	1/4	2,812.36	1/4	2,454.79	1/4	2,097.17
1/2		1/2	4,945.28	1/2	4,590.76	1/2	4,234.29	1/2	3,877.49	1/2	3,519.96	1/2	3,162.43	1/2	2,804.91	1/2	2,447.34	1/2	2,089.72
3/4		3/4	4,938.00	3/4	4,583.34	3/4	4,226.87	3/4	3,870.04	3/4	3,512.51	3/4	3,154.99	3/4	2,797.46	3/4	2,439.89	3/4	2,082.27
9		9	4,930.66	9	4,575.91	9	4,219.44	9	3,862.59	9	3,505.07	9	3,147.54	9	2,790.01	9	2,432.44	9	2,074.82
1/4		1/4	4,923.32	1/4	4,568.49	1/4	4,212.01	1/4	3,855.15	1/4	3,497.62	1/4	3,140.09	1/4	2,782.56	1/4	2,424.99	1/4	2,067.37
1/2		1/2	4,915.98	1/2	4,561.06	1/2	4,204.59	1/2	3,847.70	1/2	3,490.17	1/2	3,132.64	1/2	2,775.11	1/2	2,417.54	1/2	2,059.91
3/4		3/4	4,908.64	3/4	4,553.63	3/4	4,197.16	3/4	3,840.25	3/4	3,482.72	3/4	3,125.19	3/4	2,767.66	3/4	2,410.09	3/4	2,052.46
10		10	4,901.29	10	4,546.21	10	4,189.73	10	3,832.80	10	3,475.27	10	3,117.74	10	2,760.22	10	2,402.64	10	2,045.01
1/4		1/4	4,893.93	1/4	4,538.78	1/4	4,182.31	1/4	3,825.35	1/4	3,467.82	1/4	3,110.30	1/4	2,752.77	1/4	2,395.19	1/4	2,037.56
1/2		1/2	4,886.58	1/2	4,531.35	1/2	4,174.88	1/2	3,817.90	1/2	3,460.37	1/2	3,102.85	1/2	2,745.32	1/2	2,387.74	1/2	2,030.11
3/4		3/4	4,879.23	3/4	4,523.93	3/4	4,167.45	3/4	3,810.45	3/4	3,452.93	3/4	3,095.40	3/4	2,737.87	3/4	2,380.29	3/4	2,022.66
11		11	4,871.88	11	4,516.50	11	4,160.03	11	3,803.01	11	3,445.48	11	3,087.95	11	2,730.42	11	2,372.84	11	2,015.21
1/4		1/4	4,864.52	1/4	4,509.07	1/4	4,152.60	1/4	3,795.56	1/4	3,438.03	1/4	3,080.50	1/4	2,722.97	1/4	2,365.39	1/4	2,007.76
1/2		1/2	4,857.17	1/2	4,501.65	1/2	4,145.17	1/2	3,788.11	1/2	3,430.58	1/2	3,073.05	1/2	2,715.52	1/2	2,357.93	1/2	2,000.31
3/4		3/4	4,849.81	3/4	4,494.22	3/4	4,137.75	3/4	3,780.66	3/4	3,423.13	3/4	3,065.60	3/4	2,708.08	3/4	2,350.48	3/4	1,992.86

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 ULLAGE 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

ULLAGE TABLE
HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 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	1,985.41	0	1,627.79	0	1,270.16	0	912.82	0	555.41	0	216.20	0		0		0		0	
1/4	1,977.96	1/4	1,620.34	1/4	1,262.71	1/4	905.39	1/4	547.96	1/4	209.67	1/4		1/4		1/4		1/4	
1/2	1,970.51	1/2	1,612.88	1/2	1,255.26	1/2	897.95	1/2	540.51	1/2	203.13	1/2		1/2		1/2		1/2	
3/4	1,963.06	3/4	1,605.43	3/4	1,247.81	3/4	890.51	3/4	533.06	3/4	196.60	3/4		3/4		3/4		3/4	
1	1,955.61	1	1,597.98	1	1,240.36	1	883.08	1	525.61	1	190.16	1		1		1		1	
1/4	1,948.16	1/4	1,590.53	1/4	1,232.91	1/4	875.64	1/4	518.16	1/4	183.71	1/4		1/4		1/4		1/4	
1/2	1,940.71	1/2	1,583.08	1/2	1,225.46	1/2	868.21	1/2	510.71	1/2	177.27	1/2		1/2		1/2		1/2	
3/4	1,933.26	3/4	1,575.63	3/4	1,218.01	3/4	860.77	3/4	503.26	3/4	170.82	3/4		3/4		3/4		3/4	
2	1,925.81	2	1,568.18	2	1,210.56	2	853.33	2	495.85	2	164.47	2		2		2		2	
1/4	1,918.36	1/4	1,560.73	1/4	1,203.11	1/4	845.90	1/4	488.44	1/4	158.11	1/4		1/4		1/4		1/4	
1/2	1,910.90	1/2	1,553.28	1/2	1,195.66	1/2	838.46	1/2	481.04	1/2	151.75	1/2		1/2		1/2		1/2	
3/4	1,903.45	3/4	1,545.83	3/4	1,188.21	3/4	831.02	3/4	473.63	3/4	145.39	3/4		3/4		3/4		3/4	
3	1,896.00	3	1,538.38	3	1,180.76	3	823.59	3	466.31	3	139.12	3		3		3		3	
1/4	1,888.55	1/4	1,530.93	1/4	1,173.31	1/4	816.15	1/4	458.99	1/4	132.85	1/4		1/4		1/4		1/4	
1/2	1,881.10	1/2	1,523.48	1/2	1,165.85	1/2	808.71	1/2	451.67	1/2	126.58	1/2		1/2		1/2		1/2	
3/4	1,873.65	3/4	1,516.03	3/4	1,158.40	3/4	801.28	3/4	444.35	3/4	120.31	3/4		3/4		3/4		3/4	
4	1,866.20	4	1,508.58	4	1,150.95	4	793.83	4	437.12	4	114.13	4		4		4		4	
1/4	1,858.75	1/4	1,501.13	1/4	1,143.50	1/4	786.38	1/4	429.89	1/4	107.95	1/4		1/4		1/4		1/4	
1/2	1,851.30	1/2	1,493.68	1/2	1,136.05	1/2	778.93	1/2	422.66	1/2	101.77	1/2		1/2		1/2		1/2	
3/4	1,843.85	3/4	1,486.23	3/4	1,128.60	3/4	771.48	3/4	415.43	3/4	95.59	3/4		3/4		3/4		3/4	
5	1,836.40	5	1,478.78	5	1,121.15	5	764.03	5	408.28	5	89.51	5		5		5		5	
1/4	1,828.95	1/4	1,471.33	1/4	1,113.70	1/4	756.58	1/4	401.14	1/4	83.42	1/4		1/4		1/4		1/4	
1/2	1,821.50	1/2	1,463.87	1/2	1,106.25	1/2	749.12	1/2	393.99	1/2	77.34	1/2		1/2		1/2		1/2	
3/4	1,814.05	3/4	1,456.42	3/4	1,098.80	3/4	741.67	3/4	386.85	3/4	71.25	3/4		3/4		3/4		3/4	
6	1,806.60	6	1,448.97	6	1,091.36	6	734.22	6	379.79	6	65.28	6		6		6		6	
1/4	1,799.15	1/4	1,441.52	1/4	1,083.91	1/4	726.77	1/4	372.74	1/4	59.31	1/4		1/4		1/4		1/4	
1/2	1,791.70	1/2	1,434.07	1/2	1,076.47	1/2	719.32	1/2	365.68	1/2	53.34	1/2		1/2		1/2		1/2	
3/4	1,784.25	3/4	1,426.62	3/4	1,069.02	3/4	711.87	3/4	358.62	3/4	47.37	3/4		3/4		3/4		3/4	
7	1,776.80	7	1,419.17	7	1,061.58	7	704.42	7	351.65	7	42.38	7		7		7		7	
1/4	1,769.35	1/4	1,411.72	1/4	1,054.13	1/4	696.97	1/4	344.68	1/4	37.39	1/4		1/4		1/4		1/4	
1/2	1,761.89	1/2	1,404.27	1/2	1,046.69	1/2	689.52	1/2	337.71	1/2	32.41	1/2		1/2		1/2		1/2	
3/4	1,754.44	3/4	1,396.82	3/4	1,039.24	3/4	682.07	3/4	330.74	3/4	27.42	3/4		3/4		3/4		3/4	
8	1,746.99	8	1,389.37	8	1,031.81	8	674.62	8	323.86	8	24.38	8		8		8		8	
1/4	1,739.54	1/4	1,381.92	1/4	1,024.37	1/4	667.17	1/4	316.98	1/4	21.34	1/4		1/4		1/4		1/4	
1/2	1,732.09	1/2	1,374.47	1/2	1,016.93	1/2	659.72	1/2	310.10	1/2	18.30	1/2		1/2		1/2		1/2	
3/4	1,724.64	3/4	1,367.02	3/4	1,009.50	3/4	652.27	3/4	303.22	3/4	15.27	3/4		3/4		3/4		3/4	
9	1,717.19	9	1,359.57	9	1,002.06	9	644.82	9	296.42	9		9		9		9		9	
1/4	1,709.74	1/4	1,352.12	1/4	994.62	1/4	637.37	1/4	289.63	1/4		1/4		1/4		1/4		1/4	
1/2	1,702.29	1/2	1,344.67	1/2	987.19	1/2	629.92	1/2	282.83	1/2		1/2		1/2		1/2		1/2	
3/4	1,694.84	3/4	1,337.22	3/4	979.75	3/4	622.47	3/4	276.04	3/4		3/4		3/4		3/4		3/4	
10	1,687.39	10	1,329.77	10	972.32	10	615.02	10	269.33	10		10		10		10		10	
1/4	1,679.94	1/4	1,322.32	1/4	964.88	1/4	607.57	1/4	262.62	1/4		1/4		1/4		1/4		1/4	
1/2	1,672.49	1/2	1,314.86	1/2	957.44	1/2	600.11	1/2	255.92	1/2		1/2		1/2		1/2		1/2	
3/4	1,665.04	3/4	1,307.41	3/4	950.01	3/4	592.66	3/4	249.21	3/4		3/4		3/4		3/4		3/4	
11	1,657.59	11	1,299.96	11	942.57	11	585.21	11	242.59	11		11		11		11		11	
1/4	1,650.14	1/4	1,292.51	1/4	935.13	1/4	577.76	1/4	235.97	1/4		1/4		1/4		1/4		1/4	
1/2	1,642.69	1/2	1,285.06	1/2	927.70	1/2	570.31	1/2	229.35	1/2		1/2		1/2		1/2		1/2	
3/4	1,635.24	3/4	1,277.61	3/4	920.26	3/4	562.86	3/4	222.73	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
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BARGE "E2MS 313"

2 PORT

ULLAGE 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		0		0	4,934.02	0	4,577.55	0	4,220.08	0	3,862.07	0	3,503.57	0	3,145.06	0	2,786.55	0	2,428.04
1/4		1/4		1/4	4,926.64	1/4	4,570.10	1/4	4,212.63	1/4	3,854.60	1/4	3,496.10	1/4	3,137.59	1/4	2,779.08	1/4	2,420.58
1/2		1/2		1/2	4,919.26	1/2	4,562.65	1/2	4,205.19	1/2	3,847.14	1/2	3,488.63	1/2	3,130.12	1/2	2,771.61	1/2	2,413.11
3/4		3/4		3/4	4,911.88	3/4	4,555.21	3/4	4,197.74	3/4	3,839.67	3/4	3,481.16	3/4	3,122.65	3/4	2,764.15	3/4	2,405.64
1		1		1	4,904.50	1	4,547.76	1	4,190.29	1	3,832.20	1	3,473.69	1	3,115.18	1	2,756.68	1	2,398.17
1/4		1/4		1/4	4,897.12	1/4	4,540.31	1/4	4,182.85	1/4	3,824.73	1/4	3,466.22	1/4	3,107.71	1/4	2,749.21	1/4	2,390.70
1/2		1/2		1/2	4,889.74	1/2	4,532.86	1/2	4,175.40	1/2	3,817.26	1/2	3,458.75	1/2	3,100.25	1/2	2,741.74	1/2	2,383.23
3/4		3/4		3/4	4,882.35	3/4	4,525.42	3/4	4,167.95	3/4	3,809.79	3/4	3,451.28	3/4	3,092.78	3/4	2,734.27	3/4	2,375.76
2		2		2	4,874.97	2	4,517.97	2	4,160.50	2	3,802.32	2	3,443.82	2	3,085.31	2	2,726.80	2	2,368.29
1/4		1/4		1/4	4,867.59	1/4	4,510.52	1/4	4,153.06	1/4	3,794.85	1/4	3,436.35	1/4	3,077.84	1/4	2,719.33	1/4	2,360.82
1/2		1/2		1/2	4,860.21	1/2	4,503.08	1/2	4,145.61	1/2	3,787.38	1/2	3,428.88	1/2	3,070.37	1/2	2,711.86	1/2	2,353.36
3/4		3/4		3/4	4,852.83	3/4	4,495.63	3/4	4,138.16	3/4	3,779.92	3/4	3,421.41	3/4	3,062.90	3/4	2,704.39	3/4	2,345.89
3		3		3	4,845.45	3	4,488.18	3	4,130.72	3	3,772.45	3	3,413.94	3	3,055.43	3	2,696.93	3	2,338.42
1/4		1/4		1/4	4,838.07	1/4	4,480.73	1/4	4,123.27	1/4	3,764.98	1/4	3,406.47	1/4	3,047.96	1/4	2,689.46	1/4	2,330.95
1/2		1/2		1/2	4,830.69	1/2	4,473.29	1/2	4,115.82	1/2	3,757.51	1/2	3,399.00	1/2	3,040.49	1/2	2,681.99	1/2	2,323.48
3/4		3/4		3/4	4,823.30	3/4	4,465.84	3/4	4,108.37	3/4	3,750.04	3/4	3,391.53	3/4	3,033.03	3/4	2,674.52	3/4	2,316.01
4		4		4	4,815.86	4	4,458.39	4	4,100.93	4	3,742.57	4	3,384.06	4	3,025.56	4	2,667.05	4	2,308.54
1/4		1/4		1/4	4,808.41	1/4	4,450.94	1/4	4,093.48	1/4	3,735.10	1/4	3,376.60	1/4	3,018.09	1/4	2,659.58	1/4	2,301.07
1/2		1/2		1/2	4,800.96	1/2	4,443.50	1/2	4,086.03	1/2	3,727.63	1/2	3,369.13	1/2	3,010.62	1/2	2,652.11	1/2	2,293.60
3/4		3/4		3/4	4,793.52	3/4	4,436.05	3/4	4,078.58	3/4	3,720.16	3/4	3,361.66	3/4	3,003.15	3/4	2,644.64	3/4	2,286.14
5		5		5	4,786.07	5	4,428.60	5	4,071.14	5	3,712.70	5	3,354.19	5	2,995.68	5	2,637.17	5	2,278.67
1/4		1/4		1/4	4,778.62	1/4	4,421.16	1/4	4,063.69	1/4	3,705.23	1/4	3,346.72	1/4	2,988.21	1/4	2,629.71	1/4	2,271.20
1/2		1/2		1/2	4,771.17	1/2	4,413.71	1/2	4,056.24	1/2	3,697.76	1/2	3,339.25	1/2	2,980.74	1/2	2,622.24	1/2	2,263.73
3/4		3/4		3/4	4,763.73	3/4	4,406.26	3/4	4,048.80	3/4	3,690.29	3/4	3,331.78	3/4	2,973.27	3/4	2,614.77	3/4	2,256.26
6		6		6	4,756.28	6	4,398.81	6	4,041.33	6	3,682.82	6	3,324.31	6	2,965.81	6	2,607.30	6	2,248.79
1/4		1/4		1/4	4,748.83	1/4	4,391.37	1/4	4,033.86	1/4	3,675.35	1/4	3,316.84	1/4	2,958.34	1/4	2,599.83	1/4	2,241.32
1/2		1/2		1/2	4,741.39	1/2	4,383.92	1/2	4,026.39	1/2	3,667.88	1/2	3,309.37	1/2	2,950.87	1/2	2,592.36	1/2	2,233.85
3/4		3/4	5,076.22	3/4	4,733.94	3/4	4,376.47	3/4	4,018.92	3/4	3,660.41	3/4	3,301.91	3/4	2,943.40	3/4	2,584.89	3/4	2,226.38
7		7	5,071.02	7	4,726.49	7	4,369.03	7	4,011.45	7	3,652.94	7	3,294.44	7	2,935.93	7	2,577.42	7	2,218.92
1/4		1/4	5,065.82	1/4	4,719.04	1/4	4,361.58	1/4	4,003.98	1/4	3,645.48	1/4	3,286.97	1/4	2,928.46	1/4	2,569.95	1/4	2,211.45
1/2		1/2	5,060.61	1/2	4,711.60	1/2	4,354.13	1/2	3,996.51	1/2	3,638.01	1/2	3,279.50	1/2	2,920.99	1/2	2,562.48	1/2	2,203.98
3/4		3/4	5,055.41	3/4	4,704.15	3/4	4,346.68	3/4	3,989.04	3/4	3,630.54	3/4	3,272.03	3/4	2,913.52	3/4	2,555.02	3/4	2,196.51
8		8	5,048.96	8	4,696.70	8	4,339.24	8	3,981.58	8	3,623.07	8	3,264.56	8	2,906.05	8	2,547.55	8	2,189.04
1/4		1/4	5,042.52	1/4	4,689.26	1/4	4,331.79	1/4	3,974.11	1/4	3,615.60	1/4	3,257.09	1/4	2,898.59	1/4	2,540.08	1/4	2,181.57
1/2		1/2	5,036.07	1/2	4,681.81	1/2	4,324.34	1/2	3,966.64	1/2	3,608.13	1/2	3,249.62	1/2	2,891.12	1/2	2,532.61	1/2	2,174.10
3/4		3/4	5,029.62	3/4	4,674.36	3/4	4,316.90	3/4	3,959.17	3/4	3,600.66	3/4	3,242.15	3/4	2,883.65	3/4	2,525.14	3/4	2,166.63
9		9	5,022.31	9	4,666.91	9	4,309.45	9	3,951.70	9	3,593.19	9	3,234.69	9	2,876.18	9	2,517.67	9	2,159.16
1/4		1/4	5,015.00	1/4	4,659.47	1/4	4,302.00	1/4	3,944.23	1/4	3,585.72	1/4	3,227.22	1/4	2,868.71	1/4	2,510.20	1/4	2,151.70
1/2		1/2	5,007.69	1/2	4,652.02	1/2	4,294.55	1/2	3,936.76	1/2	3,578.26	1/2	3,219.75	1/2	2,861.24	1/2	2,502.73	1/2	2,144.23
3/4		3/4	5,000.38	3/4	4,644.57	3/4	4,287.11	3/4	3,929.29	3/4	3,570.79	3/4	3,212.28	3/4	2,853.77	3/4	2,495.26	3/4	2,136.76
10		10	4,993.01	10	4,637.12	10	4,279.66	10	3,921.82	10	3,563.32	10	3,204.81	10	2,846.30	10	2,487.80	10	2,129.29
1/4		1/4	4,985.65	1/4	4,629.68	1/4	4,272.21	1/4	3,914.36	1/4	3,555.85	1/4	3,197.34	1/4	2,838.83	1/4	2,480.33	1/4	2,121.82
1/2		1/2	4,978.28	1/2	4,622.23	1/2	4,264.76	1/2	3,906.89	1/2	3,548.38	1/2	3,189.87	1/2	2,831.37	1/2	2,472.86	1/2	2,114.35
3/4		3/4	4,970.91	3/4	4,614.78	3/4	4,257.32	3/4	3,899.42	3/4	3,540.91	3/4	3,182.40	3/4	2,823.90	3/4	2,465.39	3/4	2,106.88
11		11	4,963.54	11	4,607.34	11	4,249.87	11	3,891.95	11	3,533.44	11	3,174.93	11	2,816.43	11	2,457.92	11	2,099.41
1/4		1/4	4,956.16	1/4	4,599.89	1/4	4,242.42	1/4	3,884.48	1/4	3,525.97	1/4	3,167.47	1/4	2,808.96	1/4	2,450.45	1/4	2,091.94
1/2		1/2	4,948.78	1/2	4,592.44	1/2	4,234.98	1/2	3,877.01	1/2	3,518.50	1/2	3,160.00	1/2	2,801.49	1/2	2,442.98	1/2	2,084.48
3/4		3/4	4,941.40	3/4	4,584.99	3/4	4,227.53	3/4	3,869.54	3/4	3,511.04	3/4	3,152.53	3/4	2,794.02	3/4	2,435.51	3/4	2,077.01

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'-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

ULLAGE 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	2,069.54	0	1,711.03	0	1,352.52	0	1,001.51	0	649.96	0	291.45	0		0		0		0	
1/4	2,062.07	1/4	1,703.56	1/4	1,345.05	1/4	994.35	1/4	642.49	1/4	283.98	1/4		1/4		1/4		1/4	
1/2	2,054.60	1/2	1,696.09	1/2	1,337.59	1/2	987.19	1/2	635.02	1/2	276.51	1/2		1/2		1/2		1/2	
3/4	2,047.13	3/4	1,688.62	3/4	1,330.12	3/4	980.03	3/4	627.55	3/4	269.04	3/4		3/4		3/4		3/4	
1	2,039.66	1	1,681.15	1	1,322.65	1	972.86	1	620.08	1	261.57	1		1		1		1	
1/4	2,032.19	1/4	1,673.69	1/4	1,315.18	1/4	965.70	1/4	612.61	1/4	254.11	1/4		1/4		1/4		1/4	
1/2	2,024.72	1/2	1,666.22	1/2	1,307.71	1/2	958.54	1/2	605.14	1/2	246.64	1/2		1/2		1/2		1/2	
3/4	2,017.26	3/4	1,658.75	3/4	1,300.24	3/4	951.38	3/4	597.67	3/4	239.17	3/4		3/4		3/4		3/4	
2	2,009.79	2	1,651.28	2	1,292.77	2	944.21	2	590.21	2	231.70	2		2		2		2	
1/4	2,002.32	1/4	1,643.81	1/4	1,285.30	1/4	937.05	1/4	582.74	1/4	224.23	1/4		1/4		1/4		1/4	
1/2	1,994.85	1/2	1,636.34	1/2	1,277.83	1/2	929.89	1/2	575.27	1/2	216.76	1/2		1/2		1/2		1/2	
3/4	1,987.38	3/4	1,628.87	3/4	1,270.37	3/4	922.73	3/4	567.80	3/4	209.29	3/4		3/4		3/4		3/4	
3	1,979.91	3	1,621.40	3	1,262.90	3	915.56	3	560.33	3	201.82	3		3		3		3	
1/4	1,972.44	1/4	1,613.93	1/4	1,255.43	1/4	908.40	1/4	552.86	1/4	194.35	1/4		1/4		1/4		1/4	
1/2	1,964.97	1/2	1,606.47	1/2	1,247.96	1/2	901.24	1/2	545.39	1/2	186.89	1/2		1/2		1/2		1/2	
3/4	1,957.50	3/4	1,599.00	3/4	1,240.49	3/4	894.08	3/4	537.92	3/4	179.42	3/4		3/4		3/4		3/4	
4	1,950.04	4	1,591.53	4	1,233.02	4	886.91	4	530.45	4	171.95	4		4		4		4	
1/4	1,942.57	1/4	1,584.06	1/4	1,225.55	1/4	879.75	1/4	522.99	1/4	164.48	1/4		1/4		1/4		1/4	
1/2	1,935.10	1/2	1,576.59	1/2	1,218.08	1/2	872.59	1/2	515.52	1/2	157.01	1/2		1/2		1/2		1/2	
3/4	1,927.63	3/4	1,569.12	3/4	1,210.61	3/4	865.43	3/4	508.05	3/4	149.54	3/4		3/4		3/4		3/4	
5	1,920.16	5	1,561.65	5	1,203.15	5	858.24	5	500.58	5	142.07	5		5		5		5	
1/4	1,912.69	1/4	1,554.18	1/4	1,195.68	1/4	851.05	1/4	493.11	1/4	134.61	1/4		1/4		1/4		1/4	
1/2	1,905.22	1/2	1,546.71	1/2	1,188.21	1/2	843.87	1/2	485.64	1/2	127.14	1/2		1/2		1/2		1/2	
3/4	1,897.75	3/4	1,539.25	3/4	1,180.74	3/4	836.68	3/4	478.17	3/4	119.67	3/4		3/4		3/4		3/4	
6	1,890.28	6	1,531.78	6	1,173.55	6	829.21	6	470.70	6	112.21	6		6		6		6	
1/4	1,882.82	1/4	1,524.31	1/4	1,166.36	1/4	821.74	1/4	463.23	1/4	104.75	1/4		1/4		1/4		1/4	
1/2	1,875.35	1/2	1,516.84	1/2	1,159.18	1/2	814.27	1/2	455.77	1/2	97.30	1/2		1/2		1/2		1/2	
3/4	1,867.88	3/4	1,509.37	3/4	1,151.99	3/4	806.80	3/4	448.30	3/4	89.84	3/4		3/4		3/4		3/4	
7	1,860.41	7	1,501.90	7	1,144.82	7	799.34	7	440.83	7	82.40	7		7		7		7	
1/4	1,852.94	1/4	1,494.43	1/4	1,137.65	1/4	791.87	1/4	433.36	1/4	74.97	1/4		1/4		1/4		1/4	
1/2	1,845.47	1/2	1,486.96	1/2	1,130.48	1/2	784.40	1/2	425.89	1/2	67.54	1/2		1/2		1/2		1/2	
3/4	1,838.00	3/4	1,479.49	3/4	1,123.31	3/4	776.93	3/4	418.42	3/4	60.11	3/4		3/4		3/4		3/4	
8	1,830.53	8	1,472.03	8	1,116.14	8	769.46	8	410.95	8	53.57	8		8		8		8	
1/4	1,823.06	1/4	1,464.56	1/4	1,108.97	1/4	761.99	1/4	403.48	1/4	47.04	1/4		1/4		1/4		1/4	
1/2	1,815.59	1/2	1,457.09	1/2	1,101.79	1/2	754.52	1/2	396.01	1/2	40.51	1/2		1/2		1/2		1/2	
3/4	1,808.13	3/4	1,449.62	3/4	1,094.62	3/4	747.05	3/4	388.55	3/4	33.97	3/4		3/4		3/4		3/4	
9	1,800.66	9	1,442.15	9	1,087.46	9	739.58	9	381.08	9	29.30	9		9		9		9	
1/4	1,793.19	1/4	1,434.68	1/4	1,080.30	1/4	732.12	1/4	373.61	1/4	24.64	1/4		1/4		1/4		1/4	
1/2	1,785.72	1/2	1,427.21	1/2	1,073.14	1/2	724.65	1/2	366.14	1/2	19.97	1/2		1/2		1/2		1/2	
3/4	1,778.25	3/4	1,419.74	3/4	1,065.97	3/4	717.18	3/4	358.67	3/4	15.30	3/4		3/4		3/4		3/4	
10	1,770.78	10	1,412.27	10	1,058.81	10	709.71	10	351.20	10		10		10		10		10	
1/4	1,763.31	1/4	1,404.81	1/4	1,051.65	1/4	702.24	1/4	343.73	1/4		1/4		1/4		1/4		1/4	
1/2	1,755.84	1/2	1,397.34	1/2	1,044.49	1/2	694.77	1/2	336.26	1/2		1/2		1/2		1/2		1/2	
3/4	1,748.37	3/4	1,389.87	3/4	1,037.32	3/4	687.30	3/4	328.79	3/4		3/4		3/4		3/4		3/4	
11	1,740.91	11	1,382.40	11	1,030.16	11	679.83	11	321.33	11		11		11		11		11	
1/4	1,733.44	1/4	1,374.93	1/4	1,023.00	1/4	672.36	1/4	313.86	1/4		1/4		1/4		1/4		1/4	
1/2	1,725.97	1/2	1,367.46	1/2	1,015.84	1/2	664.89	1/2	306.39	1/2		1/2		1/2		1/2		1/2	
3/4	1,718.50	3/4	1,359.99	3/4	1,008.68	3/4	657.43	3/4	298.92	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
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http://www.pmacorp.net

BARGE "E2MS 313"

2 STBD

ULLAGE 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		0		0	4,942.05	0	4,585.55	0	4,228.02	0	3,869.93	0	3,511.37	0	3,152.81	0	2,794.25	0	2,435.62
1/4		1/4		1/4	4,934.67	1/4	4,578.10	1/4	4,220.57	1/4	3,862.46	1/4	3,503.90	1/4	3,145.34	1/4	2,786.78	1/4	2,428.15
1/2		1/2		1/2	4,927.30	1/2	4,570.65	1/2	4,213.12	1/2	3,854.99	1/2	3,496.43	1/2	3,137.87	1/2	2,779.31	1/2	2,420.68
3/4		3/4		3/4	4,919.92	3/4	4,563.20	3/4	4,205.67	3/4	3,847.52	3/4	3,488.96	3/4	3,130.40	3/4	2,771.84	3/4	2,413.20
1		1		1	4,912.55	1	4,555.75	1	4,198.22	1	3,840.05	1	3,481.49	1	3,122.93	1	2,764.37	1	2,405.73
1/4		1/4		1/4	4,905.17	1/4	4,548.30	1/4	4,190.78	1/4	3,832.58	1/4	3,474.02	1/4	3,115.46	1/4	2,756.90	1/4	2,398.26
1/2		1/2		1/2	4,897.80	1/2	4,540.85	1/2	4,183.33	1/2	3,825.11	1/2	3,466.55	1/2	3,107.99	1/2	2,749.43	1/2	2,390.79
3/4		3/4		3/4	4,890.42	3/4	4,533.41	3/4	4,175.88	3/4	3,817.64	3/4	3,459.08	3/4	3,100.52	3/4	2,741.96	3/4	2,383.32
2		2		2	4,883.05	2	4,525.96	2	4,168.43	2	3,810.17	2	3,451.61	2	3,093.05	2	2,734.49	2	2,375.84
1/4		1/4		1/4	4,875.67	1/4	4,518.51	1/4	4,160.98	1/4	3,802.70	1/4	3,444.14	1/4	3,085.58	1/4	2,727.02	1/4	2,368.37
1/2		1/2		1/2	4,868.30	1/2	4,511.06	1/2	4,153.53	1/2	3,795.23	1/2	3,436.67	1/2	3,078.11	1/2	2,719.55	1/2	2,360.90
3/4		3/4		3/4	4,860.92	3/4	4,503.61	3/4	4,146.08	3/4	3,787.76	3/4	3,429.20	3/4	3,070.64	3/4	2,712.08	3/4	2,353.43
3		3		3	4,853.55	3	4,496.16	3	4,138.64	3	3,780.29	3	3,421.73	3	3,063.17	3	2,704.61	3	2,345.95
1/4		1/4		1/4	4,846.17	1/4	4,488.72	1/4	4,131.19	1/4	3,772.82	1/4	3,414.26	1/4	3,055.70	1/4	2,697.14	1/4	2,338.48
1/2		1/2		1/2	4,838.79	1/2	4,481.27	1/2	4,123.74	1/2	3,765.35	1/2	3,406.79	1/2	3,048.23	1/2	2,689.67	1/2	2,331.01
3/4		3/4		3/4	4,831.35	3/4	4,473.82	3/4	4,116.29	3/4	3,757.88	3/4	3,399.32	3/4	3,040.76	3/4	2,682.20	3/4	2,323.54
4		4		4	4,823.90	4	4,466.37	4	4,108.84	4	3,750.41	4	3,391.85	4	3,033.29	4	2,674.73	4	2,316.07
1/4		1/4		1/4	4,816.45	1/4	4,458.92	1/4	4,101.39	1/4	3,742.94	1/4	3,384.38	1/4	3,025.82	1/4	2,667.26	1/4	2,308.59
1/2		1/2		1/2	4,809.00	1/2	4,451.47	1/2	4,093.94	1/2	3,735.47	1/2	3,376.91	1/2	3,018.35	1/2	2,659.79	1/2	2,301.12
3/4		3/4		3/4	4,801.55	3/4	4,444.02	3/4	4,086.50	3/4	3,728.00	3/4	3,369.44	3/4	3,010.88	3/4	2,652.32	3/4	2,293.65
5		5		5	4,794.10	5	4,436.58	5	4,079.05	5	3,720.53	5	3,361.97	5	3,003.41	5	2,644.85	5	2,286.18
1/4		1/4		1/4	4,786.66	1/4	4,429.13	1/4	4,071.60	1/4	3,713.06	1/4	3,354.50	1/4	2,995.94	1/4	2,637.37	1/4	2,278.70
1/2		1/2		1/2	4,779.21	1/2	4,421.68	1/2	4,064.15	1/2	3,705.59	1/2	3,347.03	1/2	2,988.47	1/2	2,629.90	1/2	2,271.23
3/4		3/4		3/4	4,771.76	3/4	4,414.23	3/4	4,056.68	3/4	3,698.12	3/4	3,339.56	3/4	2,981.00	3/4	2,622.43	3/4	2,263.76
6		6		6	4,764.31	6	4,406.78	6	4,049.21	6	3,690.65	6	3,332.09	6	2,973.53	6	2,614.96	6	2,256.29
1/4		1/4		1/4	4,756.86	1/4	4,399.33	1/4	4,041.74	1/4	3,683.18	1/4	3,324.62	1/4	2,966.06	1/4	2,607.48	1/4	2,248.81
1/2		1/2	5,091.54	1/2	4,749.41	1/2	4,391.88	1/2	4,034.27	1/2	3,675.71	1/2	3,317.15	1/2	2,958.59	1/2	2,600.01	1/2	2,241.34
3/4		3/4	5,086.34	3/4	4,741.96	3/4	4,384.44	3/4	4,026.80	3/4	3,668.24	3/4	3,309.68	3/4	2,951.12	3/4	2,592.54	3/4	2,233.87
7		7	5,081.15	7	4,734.52	7	4,376.99	7	4,019.33	7	3,660.77	7	3,302.21	7	2,943.65	7	2,585.07	7	2,226.40
1/4		1/4	5,075.95	1/4	4,727.07	1/4	4,369.54	1/4	4,011.86	1/4	3,653.30	1/4	3,294.74	1/4	2,936.18	1/4	2,577.60	1/4	2,218.93
1/2		1/2	5,070.75	1/2	4,719.62	1/2	4,362.09	1/2	4,004.39	1/2	3,645.83	1/2	3,287.27	1/2	2,928.71	1/2	2,570.12	1/2	2,211.45
3/4		3/4	5,064.31	3/4	4,712.17	3/4	4,354.64	3/4	3,996.92	3/4	3,638.36	3/4	3,279.80	3/4	2,921.24	3/4	2,562.65	3/4	2,203.98
8		8	5,057.86	8	4,704.72	8	4,347.19	8	3,989.45	8	3,630.89	8	3,272.33	8	2,913.77	8	2,555.18	8	2,196.51
1/4		1/4	5,051.42	1/4	4,697.27	1/4	4,339.75	1/4	3,981.98	1/4	3,623.42	1/4	3,264.86	1/4	2,906.30	1/4	2,547.71	1/4	2,189.04
1/2		1/2	5,044.98	1/2	4,689.82	1/2	4,332.30	1/2	3,974.51	1/2	3,615.95	1/2	3,257.39	1/2	2,898.83	1/2	2,540.23	1/2	2,181.56
3/4		3/4	5,037.67	3/4	4,682.38	3/4	4,324.85	3/4	3,967.04	3/4	3,608.48	3/4	3,249.92	3/4	2,891.36	3/4	2,532.76	3/4	2,174.09
9		9	5,030.37	9	4,674.93	9	4,317.40	9	3,959.57	9	3,601.01	9	3,242.45	9	2,883.89	9	2,525.29	9	2,166.62
1/4		1/4	5,023.06	1/4	4,667.48	1/4	4,309.95	1/4	3,952.10	1/4	3,593.54	1/4	3,234.98	1/4	2,876.42	1/4	2,517.82	1/4	2,159.15
1/2		1/2	5,015.75	1/2	4,660.03	1/2	4,302.50	1/2	3,944.63	1/2	3,586.07	1/2	3,227.51	1/2	2,868.95	1/2	2,510.34	1/2	2,151.67
3/4		3/4	5,008.39	3/4	4,652.58	3/4	4,295.05	3/4	3,937.16	3/4	3,578.60	3/4	3,220.04	3/4	2,861.48	3/4	2,502.87	3/4	2,144.20
10		10	5,001.03	10	4,645.13	10	4,287.61	10	3,929.69	10	3,571.13	10	3,212.57	10	2,854.01	10	2,495.40	10	2,136.73
1/4		1/4	4,993.67	1/4	4,637.69	1/4	4,280.16	1/4	3,922.22	1/4	3,563.66	1/4	3,205.10	1/4	2,846.54	1/4	2,487.93	1/4	2,129.26
1/2		1/2	4,986.30	1/2	4,630.24	1/2	4,272.71	1/2	3,914.75	1/2	3,556.19	1/2	3,197.63	1/2	2,839.07	1/2	2,480.46	1/2	2,121.79
3/4		3/4	4,978.93	3/4	4,622.79	3/4	4,265.26	3/4	3,907.28	3/4	3,548.72	3/4	3,190.16	3/4	2,831.60	3/4	2,472.98	3/4	2,114.31
11		11	4,971.55	11	4,615.34	11	4,257.81	11	3,899.81	11	3,541.25	11	3,182.69	11	2,824.13	11	2,465.51	11	2,106.84
1/4		1/4	4,964.18	1/4	4,607.89	1/4	4,250.36	1/4	3,892.34	1/4	3,533.78	1/4	3,175.22	1/4	2,816.66	1/4	2,458.04	1/4	2,099.37
1/2		1/2	4,956.80	1/2	4,600.44	1/2	4,242.91	1/2	3,884.87	1/2	3,526.31	1/2	3,167.75	1/2	2,809.19	1/2	2,450.57	1/2	2,091.90
3/4		3/4	4,949.43	3/4	4,592.99	3/4	4,235.47	3/4	3,877.40	3/4	3,518.84	3/4	3,160.28	3/4	2,801.72	3/4	2,443.09	3/4	2,084.42

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'-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

ULLAGE 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	2,076.95	0	1,718.28	0	1,359.61	0	1,001.18	0	642.77	0	284.11	0		0		0		0	
1/4	2,069.48	1/4	1,710.81	1/4	1,352.14	1/4	993.72	1/4	635.30	1/4	276.63	1/4		1/4		1/4		1/4	
1/2	2,062.01	1/2	1,703.34	1/2	1,344.67	1/2	986.27	1/2	627.83	1/2	269.16	1/2		1/2		1/2		1/2	
3/4	2,054.53	3/4	1,695.86	3/4	1,337.19	3/4	978.81	3/4	620.35	3/4	261.69	3/4		3/4		3/4		3/4	
1	2,047.06	1	1,688.39	1	1,329.72	1	971.35	1	612.88	1	254.22	1		1		1		1	
1/4	2,039.59	1/4	1,680.92	1/4	1,322.25	1/4	963.89	1/4	605.41	1/4	246.74	1/4		1/4		1/4		1/4	
1/2	2,032.12	1/2	1,673.45	1/2	1,314.78	1/2	956.43	1/2	597.94	1/2	239.27	1/2		1/2		1/2		1/2	
3/4	2,024.65	3/4	1,665.97	3/4	1,307.30	3/4	948.98	3/4	590.47	3/4	231.80	3/4		3/4		3/4		3/4	
2	2,017.17	2	1,658.50	2	1,299.83	2	941.52	2	582.99	2	224.33	2		2		2		2	
1/4	2,009.70	1/4	1,651.03	1/4	1,292.36	1/4	934.06	1/4	575.52	1/4	216.86	1/4		1/4		1/4		1/4	
1/2	2,002.23	1/2	1,643.56	1/2	1,284.89	1/2	926.60	1/2	568.05	1/2	209.38	1/2		1/2		1/2		1/2	
3/4	1,994.76	3/4	1,636.09	3/4	1,277.42	3/4	919.14	3/4	560.58	3/4	201.91	3/4		3/4		3/4		3/4	
3	1,987.28	3	1,628.61	3	1,269.94	3	911.69	3	553.10	3	194.44	3		3		3		3	
1/4	1,979.81	1/4	1,621.14	1/4	1,262.47	1/4	904.23	1/4	545.63	1/4	186.97	1/4		1/4		1/4		1/4	
1/2	1,972.34	1/2	1,613.67	1/2	1,255.00	1/2	896.77	1/2	538.16	1/2	179.49	1/2		1/2		1/2		1/2	
3/4	1,964.87	3/4	1,606.20	3/4	1,247.53	3/4	889.31	3/4	530.69	3/4	172.02	3/4		3/4		3/4		3/4	
4	1,957.39	4	1,598.72	4	1,240.05	4	881.85	4	523.22	4	164.55	4		4		4		4	
1/4	1,949.92	1/4	1,591.25	1/4	1,232.58	1/4	874.40	1/4	515.74	1/4	157.08	1/4		1/4		1/4		1/4	
1/2	1,942.45	1/2	1,583.78	1/2	1,225.11	1/2	866.94	1/2	508.27	1/2	149.61	1/2		1/2		1/2		1/2	
3/4	1,934.98	3/4	1,576.31	3/4	1,217.64	3/4	859.47	3/4	500.80	3/4	142.14	3/4		3/4		3/4		3/4	
5	1,927.51	5	1,568.84	5	1,210.16	5	851.99	5	493.33	5	134.66	5		5		5		5	
1/4	1,920.03	1/4	1,561.36	1/4	1,202.69	1/4	844.52	1/4	485.86	1/4	127.19	1/4		1/4		1/4		1/4	
1/2	1,912.56	1/2	1,553.89	1/2	1,195.22	1/2	837.05	1/2	478.38	1/2	119.72	1/2		1/2		1/2		1/2	
3/4	1,905.09	3/4	1,546.42	3/4	1,187.75	3/4	829.58	3/4	470.91	3/4	112.26	3/4		3/4		3/4		3/4	
6	1,897.62	6	1,538.95	6	1,180.28	6	822.10	6	463.44	6	104.80	6		6		6		6	
1/4	1,890.14	1/4	1,531.47	1/4	1,172.80	1/4	814.63	1/4	455.97	1/4	97.34	1/4		1/4		1/4		1/4	
1/2	1,882.67	1/2	1,524.00	1/2	1,165.33	1/2	807.16	1/2	448.49	1/2	89.88	1/2		1/2		1/2		1/2	
3/4	1,875.20	3/4	1,516.53	3/4	1,157.86	3/4	799.69	3/4	441.02	3/4	82.44	3/4		3/4		3/4		3/4	
7	1,867.73	7	1,509.06	7	1,150.40	7	792.22	7	433.55	7	75.00	7		7		7		7	
1/4	1,860.25	1/4	1,501.58	1/4	1,142.93	1/4	784.74	1/4	426.08	1/4	67.57	1/4		1/4		1/4		1/4	
1/2	1,852.78	1/2	1,494.11	1/2	1,135.46	1/2	777.27	1/2	418.61	1/2	60.13	1/2		1/2		1/2		1/2	
3/4	1,845.31	3/4	1,486.64	3/4	1,128.00	3/4	769.80	3/4	411.13	3/4	53.60	3/4		3/4		3/4		3/4	
8	1,837.84	8	1,479.17	8	1,120.53	8	762.33	8	403.66	8	47.06	8		8		8		8	
1/4	1,830.37	1/4	1,471.70	1/4	1,113.06	1/4	754.85	1/4	396.19	1/4	40.52	1/4		1/4		1/4		1/4	
1/2	1,822.89	1/2	1,464.22	1/2	1,105.60	1/2	747.38	1/2	388.72	1/2	33.98	1/2		1/2		1/2		1/2	
3/4	1,815.42	3/4	1,456.75	3/4	1,098.14	3/4	739.91	3/4	381.24	3/4	29.31	3/4		3/4		3/4		3/4	
9	1,807.95	9	1,449.28	9	1,090.68	9	732.44	9	373.77	9	24.64	9		9		9		9	
1/4	1,800.48	1/4	1,441.81	1/4	1,083.22	1/4	724.97	1/4	366.30	1/4	19.97	1/4		1/4		1/4		1/4	
1/2	1,793.00	1/2	1,434.33	1/2	1,075.76	1/2	717.49	1/2	358.83	1/2	15.31	1/2		1/2		1/2		1/2	
3/4	1,785.53	3/4	1,426.86	3/4	1,068.31	3/4	710.02	3/4	351.36	3/4		3/4		3/4		3/4		3/4	
10	1,778.06	10	1,419.39	10	1,060.85	10	702.55	10	343.88	10		10		10		10		10	
1/4	1,770.59	1/4	1,411.92	1/4	1,053.39	1/4	695.08	1/4	336.41	1/4		1/4		1/4		1/4		1/4	
1/2	1,763.11	1/2	1,404.44	1/2	1,045.93	1/2	687.60	1/2	328.94	1/2		1/2		1/2		1/2		1/2	
3/4	1,755.64	3/4	1,396.97	3/4	1,038.47	3/4	680.13	3/4	321.47	3/4		3/4		3/4		3/4		3/4	
11	1,748.17	11	1,389.50	11	1,031.02	11	672.66	11	313.99	11		11		11		11		11	
1/4	1,740.70	1/4	1,382.03	1/4	1,023.56	1/4	665.19	1/4	306.52	1/4		1/4		1/4		1/4		1/4	
1/2	1,733.23	1/2	1,374.56	1/2	1,016.10	1/2	657.72	1/2	299.05	1/2		1/2		1/2		1/2		1/2	
3/4	1,725.75	3/4	1,367.08	3/4	1,008.64	3/4	650.24	3/4	291.58	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

ULLAGE 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		0		0	4,328.94	0	4,110.86	0	3,892.37	0	3,673.49	0	3,433.28	0	3,080.23	0	2,724.49	0	2,368.65
1/4		1/4		1/4	4,324.44	1/4	4,106.31	1/4	3,887.82	1/4	3,668.93	1/4	3,426.62	1/4	3,072.82	1/4	2,717.08	1/4	2,361.23
1/2		1/2		1/2	4,319.93	1/2	4,101.75	1/2	3,883.27	1/2	3,664.36	1/2	3,419.47	1/2	3,065.41	1/2	2,709.67	1/2	2,353.81
3/4		3/4		3/4	4,315.42	3/4	4,097.20	3/4	3,878.72	3/4	3,659.80	3/4	3,412.33	3/4	3,058.00	3/4	2,702.26	3/4	2,346.38
1		1		1	4,310.91	1	4,092.65	1	3,874.16	1	3,655.23	1	3,405.19	1	3,050.59	1	2,694.85	1	2,338.96
1/4		1/4		1/4	4,306.41	1/4	4,088.10	1/4	3,869.61	1/4	3,650.67	1/4	3,398.04	1/4	3,043.17	1/4	2,687.44	1/4	2,331.54
1/2		1/2		1/2	4,301.90	1/2	4,083.55	1/2	3,865.06	1/2	3,646.11	1/2	3,390.67	1/2	3,035.76	1/2	2,680.03	1/2	2,324.12
3/4		3/4		3/4	4,297.39	3/4	4,079.00	3/4	3,860.51	3/4	3,641.54	3/4	3,383.31	3/4	3,028.35	3/4	2,672.61	3/4	2,316.70
2		2		2	4,292.89	2	4,074.44	2	3,855.96	2	3,636.98	2	3,375.94	2	3,020.94	2	2,665.20	2	2,309.28
1/4		1/4		1/4	4,288.38	1/4	4,069.89	1/4	3,851.41	1/4	3,632.41	1/4	3,368.57	1/4	3,013.53	1/4	2,657.79	1/4	2,301.86
1/2		1/2		1/2	4,283.83	1/2	4,065.34	1/2	3,846.85	1/2	3,627.85	1/2	3,361.19	1/2	3,006.12	1/2	2,650.38	1/2	2,294.43
3/4		3/4		3/4	4,279.28	3/4	4,060.79	3/4	3,842.30	3/4	3,623.28	3/4	3,353.81	3/4	2,998.71	3/4	2,642.97	3/4	2,287.01
3		3		3	4,274.72	3	4,056.24	3	3,837.75	3	3,618.72	3	3,346.43	3	2,991.30	3	2,635.56	3	2,279.59
1/4		1/4		1/4	4,270.17	1/4	4,051.69	1/4	3,833.20	1/4	3,614.15	1/4	3,339.05	1/4	2,983.88	1/4	2,628.15	1/4	2,272.17
1/2		1/2		1/2	4,265.62	1/2	4,047.13	1/2	3,828.65	1/2	3,609.59	1/2	3,331.67	1/2	2,976.47	1/2	2,620.73	1/2	2,264.75
3/4		3/4		3/4	4,261.07	3/4	4,042.58	3/4	3,824.10	3/4	3,605.02	3/4	3,324.29	3/4	2,969.06	3/4	2,613.32	3/4	2,257.34
4		4		4	4,256.52	4	4,038.03	4	3,819.54	4	3,600.46	4	3,316.90	4	2,961.65	4	2,605.91	4	2,249.92
1/4		1/4		1/4	4,251.96	1/4	4,033.48	1/4	3,814.99	1/4	3,595.90	1/4	3,309.52	1/4	2,954.24	1/4	2,598.50	1/4	2,242.51
1/2		1/2		1/2	4,247.41	1/2	4,028.93	1/2	3,810.43	1/2	3,591.33	1/2	3,302.14	1/2	2,946.83	1/2	2,591.08	1/2	2,235.09
3/4		3/4		3/4	4,242.86	3/4	4,024.37	3/4	3,805.86	3/4	3,586.77	3/4	3,294.76	3/4	2,939.42	3/4	2,583.67	3/4	2,227.67
5		5		5	4,238.31	5	4,019.82	5	3,801.30	5	3,582.20	5	3,287.37	5	2,932.01	5	2,576.26	5	2,220.26
1/4		1/4	4,442.84	1/4	4,233.76	1/4	4,015.27	1/4	3,796.73	1/4	3,577.64	1/4	3,279.99	1/4	2,924.59	1/4	2,568.85	1/4	2,212.84
1/2		1/2	4,439.66	1/2	4,229.21	1/2	4,010.72	1/2	3,792.17	1/2	3,573.07	1/2	3,272.61	1/2	2,917.18	1/2	2,561.44	1/2	2,205.43
3/4		3/4	4,436.49	3/4	4,224.65	3/4	4,006.17	3/4	3,787.60	3/4	3,568.51	3/4	3,265.22	3/4	2,909.77	3/4	2,554.02	3/4	2,198.01
6		6	4,433.31	6	4,220.10	6	4,001.62	6	3,783.04	6	3,563.94	6	3,257.84	6	2,902.36	6	2,546.61	6	2,190.60
1/4		1/4	4,430.13	1/4	4,215.55	1/4	3,997.06	1/4	3,778.48	1/4	3,559.38	1/4	3,250.46	1/4	2,894.95	1/4	2,539.20	1/4	2,183.18
1/2		1/2	4,426.20	1/2	4,211.00	1/2	3,992.51	1/2	3,773.91	1/2	3,554.82	1/2	3,243.08	1/2	2,887.54	1/2	2,531.79	1/2	2,175.76
3/4		3/4	4,422.26	3/4	4,206.45	3/4	3,987.96	3/4	3,769.35	3/4	3,550.25	3/4	3,235.69	3/4	2,880.13	3/4	2,524.37	3/4	2,168.35
7		7	4,418.32	7	4,201.89	7	3,983.41	7	3,764.78	7	3,545.69	7	3,228.31	7	2,872.72	7	2,516.96	7	2,160.93
1/4		1/4	4,414.39	1/4	4,197.34	1/4	3,978.86	1/4	3,760.22	1/4	3,541.12	1/4	3,220.93	1/4	2,865.31	1/4	2,509.55	1/4	2,153.52
1/2		1/2	4,409.92	1/2	4,192.79	1/2	3,974.30	1/2	3,755.65	1/2	3,536.32	1/2	3,213.55	1/2	2,857.89	1/2	2,502.14	1/2	2,146.10
3/4		3/4	4,405.46	3/4	4,188.24	3/4	3,969.75	3/4	3,751.09	3/4	3,531.51	3/4	3,206.16	3/4	2,850.48	3/4	2,494.72	3/4	2,138.69
8		8	4,400.99	8	4,183.69	8	3,965.20	8	3,746.52	8	3,526.71	8	3,198.78	8	2,843.07	8	2,487.31	8	2,131.27
1/4		1/4	4,396.53	1/4	4,179.14	1/4	3,960.65	1/4	3,741.96	1/4	3,521.91	1/4	3,191.40	1/4	2,835.66	1/4	2,479.90	1/4	2,123.85
1/2		1/2	4,392.03	1/2	4,174.58	1/2	3,956.10	1/2	3,737.40	1/2	3,516.66	1/2	3,183.99	1/2	2,828.25	1/2	2,472.49	1/2	2,116.44
3/4		3/4	4,387.53	3/4	4,170.03	3/4	3,951.55	3/4	3,732.83	3/4	3,511.42	3/4	3,176.58	3/4	2,820.84	3/4	2,465.07	3/4	2,109.02
9		9	4,383.03	9	4,165.48	9	3,946.99	9	3,728.27	9	3,506.17	9	3,169.16	9	2,813.43	9	2,457.66	9	2,101.61
1/4		1/4	4,378.53	1/4	4,160.93	1/4	3,942.44	1/4	3,723.70	1/4	3,500.93	1/4	3,161.75	1/4	2,806.02	1/4	2,450.25	1/4	2,094.19
1/2		1/2	4,374.02	1/2	4,156.38	1/2	3,937.89	1/2	3,719.14	1/2	3,495.20	1/2	3,154.34	1/2	2,798.60	1/2	2,442.84	1/2	2,086.79
3/4		3/4	4,369.51	3/4	4,151.82	3/4	3,933.34	3/4	3,714.57	3/4	3,489.48	3/4	3,146.93	3/4	2,791.19	3/4	2,435.42	3/4	2,079.40
10		10	4,365.01	10	4,147.27	10	3,928.79	10	3,710.01	10	3,483.76	10	3,139.52	10	2,783.78	10	2,428.01	10	2,072.00
1/4		1/4	4,360.50	1/4	4,142.72	1/4	3,924.23	1/4	3,705.44	1/4	3,478.04	1/4	3,132.11	1/4	2,776.37	1/4	2,420.60	1/4	2,064.61
1/2		1/2	4,355.99	1/2	4,138.17	1/2	3,919.68	1/2	3,700.88	1/2	3,471.85	1/2	3,124.70	1/2	2,768.96	1/2	2,413.18	1/2	2,057.21
3/4		3/4	4,351.48	3/4	4,133.62	3/4	3,915.13	3/4	3,696.31	3/4	3,465.66	3/4	3,117.29	3/4	2,761.55	3/4	2,405.76	3/4	2,049.82
11		11	4,346.97	11	4,129.07	11	3,910.58	11	3,691.75	11	3,459.47	11	3,109.87	11	2,754.14	11	2,398.34	11	2,042.42
1/4		1/4	4,342.46	1/4	4,124.51	1/4	3,906.03	1/4	3,687.19	1/4	3,453.28	1/4	3,102.46	1/4	2,746.73	1/4	2,390.91	1/4	2,035.02
1/2		1/2	4,337.96	1/2	4,119.96	1/2	3,901.48	1/2	3,682.62	1/2	3,446.61	1/2	3,095.05	1/2	2,739.31	1/2	2,383.49	1/2	2,027.62
3/4		3/4	4,333.45	3/4	4,115.41	3/4	3,896.92	3/4	3,678.06	3/4	3,439.95	3/4	3,087.64	3/4	2,731.90	3/4	2,376.07	3/4	2,020.22

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 ULLAGE 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

ULLAGE 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	2,012.81	0	1,657.29	0	1,301.17	0	953.17	0	601.99	0	245.55	0		0		0		0	
1/4	2,005.41	1/4	1,649.87	1/4	1,293.75	1/4	946.04	1/4	594.57	1/4	238.12	1/4		1/4		1/4		1/4	
1/2	1,998.01	1/2	1,642.45	1/2	1,286.33	1/2	938.91	1/2	587.15	1/2	230.68	1/2		1/2		1/2		1/2	
3/4	1,990.61	3/4	1,635.04	3/4	1,278.91	3/4	931.78	3/4	579.72	3/4	223.24	3/4		3/4		3/4		3/4	
1	1,983.20	1	1,627.62	1	1,271.49	1	924.65	1	572.30	1	215.81	1		1		1		1	
1/4	1,975.80	1/4	1,620.20	1/4	1,264.08	1/4	917.52	1/4	564.87	1/4	208.37	1/4		1/4		1/4		1/4	
1/2	1,968.40	1/2	1,612.78	1/2	1,256.66	1/2	910.39	1/2	557.45	1/2	200.94	1/2		1/2		1/2		1/2	
3/4	1,960.99	3/4	1,605.36	3/4	1,249.24	3/4	903.27	3/4	550.02	3/4	193.50	3/4		3/4		3/4		3/4	
2	1,953.59	2	1,597.94	2	1,241.82	2	896.14	2	542.60	2	186.06	2		2		2		2	
1/4	1,946.19	1/4	1,590.52	1/4	1,234.40	1/4	889.01	1/4	535.18	1/4	178.63	1/4		1/4		1/4		1/4	
1/2	1,938.78	1/2	1,583.10	1/2	1,226.98	1/2	881.88	1/2	527.75	1/2	171.19	1/2		1/2		1/2		1/2	
3/4	1,931.38	3/4	1,575.68	3/4	1,219.56	3/4	874.75	3/4	520.33	3/4	163.76	3/4		3/4		3/4		3/4	
3	1,923.98	3	1,568.26	3	1,212.14	3	867.62	3	512.90	3	156.32	3		3		3		3	
1/4	1,916.58	1/4	1,560.84	1/4	1,204.72	1/4	860.50	1/4	505.48	1/4	148.89	1/4		1/4		1/4		1/4	
1/2	1,909.17	1/2	1,553.42	1/2	1,197.30	1/2	853.35	1/2	498.05	1/2	141.45	1/2		1/2		1/2		1/2	
3/4	1,901.77	3/4	1,546.00	3/4	1,189.88	3/4	846.19	3/4	490.63	3/4	134.02	3/4		3/4		3/4		3/4	
4	1,894.37	4	1,538.59	4	1,182.46	4	839.04	4	483.21	4	126.58	4		4		4		4	
1/4	1,886.96	1/4	1,531.17	1/4	1,175.04	1/4	831.89	1/4	475.78	1/4	119.15	1/4		1/4		1/4		1/4	
1/2	1,879.56	1/2	1,523.75	1/2	1,167.83	1/2	824.53	1/2	468.36	1/2	111.72	1/2		1/2		1/2		1/2	
3/4	1,872.16	3/4	1,516.33	3/4	1,160.62	3/4	817.17	3/4	460.93	3/4	104.30	3/4		3/4		3/4		3/4	
5	1,864.75	5	1,508.91	5	1,153.41	5	809.81	5	453.51	5	96.87	5		5		5		5	
1/4	1,857.35	1/4	1,501.49	1/4	1,146.19	1/4	802.45	1/4	446.09	1/4	89.45	1/4		1/4		1/4		1/4	
1/2	1,849.95	1/2	1,494.07	1/2	1,139.00	1/2	795.02	1/2	438.66	1/2	82.05	1/2		1/2		1/2		1/2	
3/4	1,842.55	3/4	1,486.65	3/4	1,131.80	3/4	787.60	3/4	431.24	3/4	74.65	3/4		3/4		3/4		3/4	
6	1,835.14	6	1,479.23	6	1,124.60	6	780.17	6	423.81	6	67.25	6		6		6		6	
1/4	1,827.74	1/4	1,471.81	1/4	1,117.40	1/4	772.75	1/4	416.39	1/4	59.85	1/4		1/4		1/4		1/4	
1/2	1,820.34	1/2	1,464.39	1/2	1,110.20	1/2	765.33	1/2	408.96	1/2	53.34	1/2		1/2		1/2		1/2	
3/4	1,812.93	3/4	1,456.97	3/4	1,103.00	3/4	757.90	3/4	401.54	3/4	46.84	3/4		3/4		3/4		3/4	
7	1,805.53	7	1,449.56	7	1,095.80	7	750.48	7	394.12	7	40.33	7		7		7		7	
1/4	1,798.13	1/4	1,442.14	1/4	1,088.60	1/4	743.05	1/4	386.69	1/4	33.83	1/4		1/4		1/4		1/4	
1/2	1,790.72	1/2	1,434.72	1/2	1,081.48	1/2	735.63	1/2	379.27	1/2	29.18	1/2		1/2		1/2		1/2	
3/4	1,783.32	3/4	1,427.30	3/4	1,074.35	3/4	728.21	3/4	371.84	3/4	24.53	3/4		3/4		3/4		3/4	
8	1,775.92	8	1,419.88	8	1,067.22	8	720.78	8	364.42	8	19.89	8		8		8		8	
1/4	1,768.52	1/4	1,412.46	1/4	1,060.09	1/4	713.36	1/4	357.00	1/4	15.24	1/4		1/4		1/4		1/4	
1/2	1,761.11	1/2	1,405.04	1/2	1,052.96	1/2	705.93	1/2	349.57	1/2		1/2		1/2		1/2		1/2	
3/4	1,753.71	3/4	1,397.62	3/4	1,045.83	3/4	698.51	3/4	342.15	3/4		3/4		3/4		3/4		3/4	
9	1,746.31	9	1,390.20	9	1,038.71	9	691.08	9	334.72	9		9		9		9		9	
1/4	1,738.90	1/4	1,382.78	1/4	1,031.58	1/4	683.66	1/4	327.30	1/4		1/4		1/4		1/4		1/4	
1/2	1,731.48	1/2	1,375.36	1/2	1,024.45	1/2	676.24	1/2	319.87	1/2		1/2		1/2		1/2		1/2	
3/4	1,724.07	3/4	1,367.94	3/4	1,017.32	3/4	668.81	3/4	312.45	3/4		3/4		3/4		3/4		3/4	
10	1,716.65	10	1,360.52	10	1,010.19	10	661.39	10	305.03	10		10		10		10		10	
1/4	1,709.23	1/4	1,353.11	1/4	1,003.06	1/4	653.96	1/4	297.60	1/4		1/4		1/4		1/4		1/4	
1/2	1,701.81	1/2	1,345.69	1/2	995.94	1/2	646.54	1/2	290.17	1/2		1/2		1/2		1/2		1/2	
3/4	1,694.39	3/4	1,338.27	3/4	988.81	3/4	639.11	3/4	282.73	3/4		3/4		3/4		3/4		3/4	
11	1,686.97	11	1,330.85	11	981.68	11	631.69	11	275.29	11		11		11		11		11	
1/4	1,679.55	1/4	1,323.43	1/4	974.55	1/4	624.27	1/4	267.86	1/4		1/4		1/4		1/4		1/4	
1/2	1,672.13	1/2	1,316.01	1/2	967.42	1/2	616.84	1/2	260.42	1/2		1/2		1/2		1/2		1/2	
3/4	1,664.71	3/4	1,308.59	3/4	960.29	3/4	609.42	3/4	252.99	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
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http://www.pmacorp.net

BARGE "E2MS 313"

3 STBD

ULLAGE 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		0		0	4,352.23	0	4,134.23	0	3,915.79	0	3,696.96	0	3,458.83	0	3,105.94	0	2,749.62	0	2,393.22
1/4		1/4		1/4	4,347.72	1/4	4,129.68	1/4	3,911.23	1/4	3,692.40	1/4	3,452.15	1/4	3,098.51	1/4	2,742.20	1/4	2,385.79
1/2		1/2		1/2	4,343.22	1/2	4,125.13	1/2	3,906.68	1/2	3,687.83	1/2	3,445.47	1/2	3,091.09	1/2	2,734.78	1/2	2,378.35
3/4		3/4		3/4	4,338.71	3/4	4,120.58	3/4	3,902.13	3/4	3,683.27	3/4	3,438.32	3/4	3,083.67	3/4	2,727.35	3/4	2,370.92
1		1		1	4,334.21	1	4,116.03	1	3,897.58	1	3,678.70	1	3,431.16	1	3,076.24	1	2,719.93	1	2,363.49
1/4		1/4		1/4	4,329.70	1/4	4,111.48	1/4	3,893.03	1/4	3,674.14	1/4	3,424.01	1/4	3,068.82	1/4	2,712.51	1/4	2,356.05
1/2		1/2		1/2	4,325.19	1/2	4,106.93	1/2	3,888.48	1/2	3,669.58	1/2	3,416.85	1/2	3,061.40	1/2	2,705.08	1/2	2,348.62
3/4		3/4		3/4	4,320.69	3/4	4,102.38	3/4	3,883.93	3/4	3,665.01	3/4	3,409.47	3/4	3,053.97	3/4	2,697.66	3/4	2,341.18
2		2		2	4,316.18	2	4,097.83	2	3,879.38	2	3,660.45	2	3,402.09	2	3,046.55	2	2,690.24	2	2,333.75
1/4		1/4		1/4	4,311.68	1/4	4,093.27	1/4	3,874.83	1/4	3,655.89	1/4	3,394.71	1/4	3,039.13	1/4	2,682.81	1/4	2,326.32
1/2		1/2		1/2	4,307.17	1/2	4,088.72	1/2	3,870.28	1/2	3,651.32	1/2	3,387.33	1/2	3,031.70	1/2	2,675.39	1/2	2,318.88
3/4		3/4		3/4	4,302.62	3/4	4,084.17	3/4	3,865.72	3/4	3,646.76	3/4	3,379.93	3/4	3,024.28	3/4	2,667.97	3/4	2,311.45
3		3		3	4,298.07	3	4,079.62	3	3,861.17	3	3,642.20	3	3,372.54	3	3,016.86	3	2,660.54	3	2,304.02
1/4		1/4		1/4	4,293.52	1/4	4,075.07	1/4	3,856.62	1/4	3,637.63	1/4	3,365.15	1/4	3,009.43	1/4	2,653.12	1/4	2,296.58
1/2		1/2		1/2	4,288.97	1/2	4,070.52	1/2	3,852.07	1/2	3,633.07	1/2	3,357.76	1/2	3,002.01	1/2	2,645.70	1/2	2,289.15
3/4		3/4		3/4	4,284.42	3/4	4,065.97	3/4	3,847.52	3/4	3,628.51	3/4	3,350.37	3/4	2,994.59	3/4	2,638.27	3/4	2,281.72
4		4		4	4,279.87	4	4,061.42	4	3,842.97	4	3,623.94	4	3,342.97	4	2,987.17	4	2,630.85	4	2,274.28
1/4		1/4		1/4	4,275.31	1/4	4,056.87	1/4	3,838.42	1/4	3,619.38	1/4	3,335.58	1/4	2,979.74	1/4	2,623.43	1/4	2,266.85
1/2		1/2		1/2	4,270.76	1/2	4,052.32	1/2	3,833.87	1/2	3,614.81	1/2	3,328.18	1/2	2,972.32	1/2	2,616.00	1/2	2,259.42
3/4		3/4		3/4	4,266.21	3/4	4,047.76	3/4	3,829.30	3/4	3,610.25	3/4	3,320.79	3/4	2,964.90	3/4	2,608.58	3/4	2,251.98
5		5		5	4,261.66	5	4,043.21	5	3,824.74	5	3,605.69	5	3,313.39	5	2,957.47	5	2,601.15	5	2,244.55
1/4		1/4		1/4	4,257.11	1/4	4,038.66	1/4	3,820.18	1/4	3,601.12	1/4	3,306.00	1/4	2,950.05	1/4	2,593.73	1/4	2,237.12
1/2		1/2	4,461.59	1/2	4,252.56	1/2	4,034.11	1/2	3,815.61	1/2	3,596.56	1/2	3,298.60	1/2	2,942.63	1/2	2,586.30	1/2	2,229.68
3/4		3/4	4,458.41	3/4	4,248.01	3/4	4,029.56	3/4	3,811.05	3/4	3,592.00	3/4	3,291.21	3/4	2,935.20	3/4	2,578.88	3/4	2,222.25
6		6	4,455.24	6	4,243.46	6	4,025.01	6	3,806.49	6	3,587.43	6	3,283.81	6	2,927.78	6	2,571.46	6	2,214.82
1/4		1/4	4,452.06	1/4	4,238.91	1/4	4,020.46	1/4	3,801.92	1/4	3,582.87	1/4	3,276.42	1/4	2,920.36	1/4	2,564.03	1/4	2,207.38
1/2		1/2	4,448.89	1/2	4,234.36	1/2	4,015.91	1/2	3,797.36	1/2	3,578.31	1/2	3,269.02	1/2	2,912.93	1/2	2,556.61	1/2	2,199.95
3/4		3/4	4,444.95	3/4	4,229.80	3/4	4,011.36	3/4	3,792.79	3/4	3,573.74	3/4	3,261.63	3/4	2,905.51	3/4	2,549.18	3/4	2,192.51
7		7	4,441.01	7	4,225.25	7	4,006.81	7	3,788.23	7	3,569.18	7	3,254.23	7	2,898.09	7	2,541.76	7	2,185.08
1/4		1/4	4,437.08	1/4	4,220.70	1/4	4,002.25	1/4	3,783.67	1/4	3,564.61	1/4	3,246.84	1/4	2,890.66	1/4	2,534.33	1/4	2,177.65
1/2		1/2	4,433.14	1/2	4,216.15	1/2	3,997.70	1/2	3,779.10	1/2	3,560.05	1/2	3,239.44	1/2	2,883.24	1/2	2,526.91	1/2	2,170.21
3/4		3/4	4,428.68	3/4	4,211.60	3/4	3,993.15	3/4	3,774.54	3/4	3,555.25	3/4	3,232.05	3/4	2,875.82	3/4	2,519.49	3/4	2,162.78
8		8	4,424.21	8	4,207.05	8	3,988.60	8	3,769.98	8	3,550.45	8	3,224.65	8	2,868.39	8	2,512.06	8	2,155.35
1/4		1/4	4,419.75	1/4	4,202.50	1/4	3,984.05	1/4	3,765.41	1/4	3,545.64	1/4	3,217.26	1/4	2,860.97	1/4	2,504.64	1/4	2,147.91
1/2		1/2	4,415.29	1/2	4,197.95	1/2	3,979.50	1/2	3,760.85	1/2	3,540.84	1/2	3,209.86	1/2	2,853.55	1/2	2,497.21	1/2	2,140.48
3/4		3/4	4,410.79	3/4	4,193.40	3/4	3,974.95	3/4	3,756.29	3/4	3,535.60	3/4	3,202.44	3/4	2,846.12	3/4	2,489.79	3/4	2,133.05
9		9	4,406.29	9	4,188.85	9	3,970.40	9	3,751.72	9	3,530.35	9	3,195.01	9	2,838.70	9	2,482.37	9	2,125.61
1/4		1/4	4,401.79	1/4	4,184.29	1/4	3,965.85	1/4	3,747.16	1/4	3,525.11	1/4	3,187.59	1/4	2,831.28	1/4	2,474.94	1/4	2,118.18
1/2		1/2	4,397.29	1/2	4,179.74	1/2	3,961.30	1/2	3,742.60	1/2	3,519.87	1/2	3,180.17	1/2	2,823.85	1/2	2,467.52	1/2	2,110.75
3/4		3/4	4,392.79	3/4	4,175.19	3/4	3,956.74	3/4	3,738.03	3/4	3,514.15	3/4	3,172.75	3/4	2,816.43	3/4	2,460.09	3/4	2,103.31
10		10	4,388.28	10	4,170.64	10	3,952.19	10	3,733.47	10	3,508.42	10	3,165.32	10	2,809.01	10	2,452.67	10	2,095.88
1/4		1/4	4,383.78	1/4	4,166.09	1/4	3,947.64	1/4	3,728.90	1/4	3,502.70	1/4	3,157.90	1/4	2,801.59	1/4	2,445.24	1/4	2,088.45
1/2		1/2	4,379.27	1/2	4,161.54	1/2	3,943.09	1/2	3,724.34	1/2	3,496.98	1/2	3,150.48	1/2	2,794.16	1/2	2,437.82	1/2	2,081.01
3/4		3/4	4,374.76	3/4	4,156.99	3/4	3,938.54	3/4	3,719.78	3/4	3,490.78	3/4	3,143.05	3/4	2,786.74	3/4	2,430.39	3/4	2,073.58
11		11	4,370.26	11	4,152.44	11	3,933.99	11	3,715.21	11	3,484.58	11	3,135.63	11	2,779.32	11	2,422.95	11	2,066.15
1/4		1/4	4,365.75	1/4	4,147.89	1/4	3,929.44	1/4	3,710.65	1/4	3,478.38	1/4	3,128.21	1/4	2,771.89	1/4	2,415.52	1/4	2,058.71
1/2		1/2	4,361.24	1/2	4,143.34	1/2	3,924.89	1/2	3,706.09	1/2	3,472.18	1/2	3,120.78	1/2	2,764.47	1/2	2,408.09	1/2	2,051.28
3/4		3/4	4,356.74	3/4	4,138.78	3/4	3,920.34	3/4	3,701.52	3/4	3,465.50	3/4	3,113.36	3/4	2,757.05	3/4	2,400.65	3/4	2,043.84

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO ULLAGE 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

ULLAGE 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	2,036.41	0	1,679.60	0	1,322.80	0	966.29	0	609.70	0	252.90	0		0		0		0	
1/4	2,028.98	1/4	1,672.17	1/4	1,315.36	1/4	958.87	1/4	602.26	1/4	245.46	1/4		1/4		1/4		1/4	
1/2	2,021.54	1/2	1,664.74	1/2	1,307.93	1/2	951.46	1/2	594.83	1/2	238.03	1/2		1/2		1/2		1/2	
3/4	2,014.11	3/4	1,657.30	3/4	1,300.49	3/4	944.04	3/4	587.40	3/4	230.60	3/4		3/4		3/4		3/4	
1	2,006.68	1	1,649.87	1	1,293.06	1	936.62	1	579.96	1	223.16	1		1		1		1	
1/4	1,999.24	1/4	1,642.44	1/4	1,285.63	1/4	929.20	1/4	572.53	1/4	215.73	1/4		1/4		1/4		1/4	
1/2	1,991.81	1/2	1,635.00	1/2	1,278.19	1/2	921.78	1/2	565.10	1/2	208.30	1/2		1/2		1/2		1/2	
3/4	1,984.38	3/4	1,627.57	3/4	1,270.76	3/4	914.36	3/4	557.66	3/4	200.86	3/4		3/4		3/4		3/4	
2	1,976.94	2	1,620.14	2	1,263.33	2	906.94	2	550.23	2	193.43	2		2		2		2	
1/4	1,969.51	1/4	1,612.70	1/4	1,255.89	1/4	899.52	1/4	542.80	1/4	186.00	1/4		1/4		1/4		1/4	
1/2	1,962.08	1/2	1,605.27	1/2	1,248.46	1/2	892.10	1/2	535.36	1/2	178.56	1/2		1/2		1/2		1/2	
3/4	1,954.64	3/4	1,597.83	3/4	1,241.03	3/4	884.68	3/4	527.93	3/4	171.13	3/4		3/4		3/4		3/4	
3	1,947.21	3	1,590.40	3	1,233.59	3	877.27	3	520.50	3	163.70	3		3		3		3	
1/4	1,939.78	1/4	1,582.97	1/4	1,226.16	1/4	869.85	1/4	513.06	1/4	156.26	1/4		1/4		1/4		1/4	
1/2	1,932.34	1/2	1,575.53	1/2	1,218.73	1/2	862.43	1/2	505.63	1/2	148.83	1/2		1/2		1/2		1/2	
3/4	1,924.91	3/4	1,568.10	3/4	1,211.29	3/4	854.99	3/4	498.20	3/4	141.40	3/4		3/4		3/4		3/4	
4	1,917.48	4	1,560.67	4	1,203.86	4	847.56	4	490.76	4	133.97	4		4		4		4	
1/4	1,910.04	1/4	1,553.23	1/4	1,196.43	1/4	840.13	1/4	483.33	1/4	126.54	1/4		1/4		1/4		1/4	
1/2	1,902.61	1/2	1,545.80	1/2	1,188.99	1/2	832.69	1/2	475.90	1/2	119.10	1/2		1/2		1/2		1/2	
3/4	1,895.17	3/4	1,538.37	3/4	1,181.56	3/4	825.26	3/4	468.46	3/4	111.68	3/4		3/4		3/4		3/4	
5	1,887.74	5	1,530.93	5	1,174.13	5	817.83	5	461.03	5	104.26	5		5		5		5	
1/4	1,880.31	1/4	1,523.50	1/4	1,166.69	1/4	810.39	1/4	453.60	1/4	96.84	1/4		1/4		1/4		1/4	
1/2	1,872.87	1/2	1,516.07	1/2	1,159.26	1/2	802.96	1/2	446.16	1/2	89.41	1/2		1/2		1/2		1/2	
3/4	1,865.44	3/4	1,508.63	3/4	1,151.83	3/4	795.53	3/4	438.73	3/4	82.02	3/4		3/4		3/4		3/4	
6	1,858.01	6	1,501.20	6	1,144.40	6	788.09	6	431.30	6	74.62	6		6		6		6	
1/4	1,850.57	1/4	1,493.77	1/4	1,136.97	1/4	780.66	1/4	423.86	1/4	67.22	1/4		1/4		1/4		1/4	
1/2	1,843.14	1/2	1,486.33	1/2	1,129.55	1/2	773.23	1/2	416.43	1/2	59.82	1/2		1/2		1/2		1/2	
3/4	1,835.71	3/4	1,478.90	3/4	1,122.12	3/4	765.80	3/4	409.00	3/4	53.32	3/4		3/4		3/4		3/4	
7	1,828.27	7	1,471.47	7	1,114.69	7	758.36	7	401.56	7	46.82	7		7		7		7	
1/4	1,820.84	1/4	1,464.03	1/4	1,107.26	1/4	750.93	1/4	394.13	1/4	40.32	1/4		1/4		1/4		1/4	
1/2	1,813.41	1/2	1,456.60	1/2	1,099.84	1/2	743.50	1/2	386.70	1/2	33.81	1/2		1/2		1/2		1/2	
3/4	1,805.97	3/4	1,449.16	3/4	1,092.42	3/4	736.06	3/4	379.26	3/4	29.17	3/4		3/4		3/4		3/4	
8	1,798.54	8	1,441.73	8	1,085.00	8	728.63	8	371.83	8	24.52	8		8		8		8	
1/4	1,791.11	1/4	1,434.30	1/4	1,077.58	1/4	721.20	1/4	364.40	1/4	19.88	1/4		1/4		1/4		1/4	
1/2	1,783.67	1/2	1,426.86	1/2	1,070.16	1/2	713.76	1/2	356.96	1/2	15.23	1/2		1/2		1/2		1/2	
3/4	1,776.24	3/4	1,419.43	3/4	1,062.74	3/4	706.33	3/4	349.53	3/4		3/4		3/4		3/4		3/4	
9	1,768.81	9	1,412.00	9	1,055.32	9	698.90	9	342.10	9		9		9		9		9	
1/4	1,761.37	1/4	1,404.56	1/4	1,047.90	1/4	691.46	1/4	334.66	1/4		1/4		1/4		1/4		1/4	
1/2	1,753.94	1/2	1,397.13	1/2	1,040.48	1/2	684.03	1/2	327.23	1/2		1/2		1/2		1/2		1/2	
3/4	1,746.50	3/4	1,389.70	3/4	1,033.06	3/4	676.60	3/4	319.80	3/4		3/4		3/4		3/4		3/4	
10	1,739.07	10	1,382.26	10	1,025.65	10	669.16	10	312.36	10		10		10		10		10	
1/4	1,731.64	1/4	1,374.83	1/4	1,018.23	1/4	661.73	1/4	304.93	1/4		1/4		1/4		1/4		1/4	
1/2	1,724.20	1/2	1,367.40	1/2	1,010.81	1/2	654.30	1/2	297.50	1/2		1/2		1/2		1/2		1/2	
3/4	1,716.77	3/4	1,359.96	3/4	1,003.39	3/4	646.86	3/4	290.06	3/4		3/4		3/4		3/4		3/4	
11	1,709.34	11	1,352.53	11	995.97	11	639.43	11	282.63	11		11		11		11		11	
1/4	1,701.90	1/4	1,345.10	1/4	988.55	1/4	632.00	1/4	275.20	1/4		1/4		1/4		1/4		1/4	
1/2	1,694.47	1/2	1,337.66	1/2	981.13	1/2	624.56	1/2	267.76	1/2		1/2		1/2		1/2		1/2	
3/4	1,687.04	3/4	1,330.23	3/4	973.71	3/4	617.13	3/4	260.33	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

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