



BARGE "E2MS 313"

INNAGE (10" HATCH)

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	02-0/8	- 02-0/8	04-1/8	- 04-1/8	06-1/8	- 06-1/8	08-1/8	- 08-1/8	10-1/8	- 10-1/8	12-2/8	- 12-2/8
1 STBD	02-0/8	- 02-0/8	04-0/8	- 04-0/8	06-1/8	- 06-1/8	08-1/8	- 08-1/8	10-1/8	- 10-1/8	12-1/8	- 12-1/8
2 PORT	02-0/8	- 02-0/8	04-1/8	- 04-1/8	06-1/8	- 06-1/8	08-1/8	- 08-1/8	10-1/8	- 10-1/8	12-1/4	- 12-1/4
2 STBD	02-0/8	- 02-0/8	04-1/8	- 04-1/8	06-1/8	- 06-1/8	08-1/8	- 08-1/8	10-1/4	- 10-1/4	12-1/4	- 12-1/4
3 PORT	- 02-0/8	02-0/8	- 04-0/8	04-0/8	- 06-1/8	06-1/8	- 08-1/8	08-1/8	- 10-1/8	10-1/8	- 12-1/8	12-1/8
3 STBD	- 02-0/8	02-0/8	- 04-0/8	04-0/8	- 06-1/8	06-1/8	- 08-1/8	08-1/8	- 10-1/8	10-1/8	- 12-1/8	12-1/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 235'-09"

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

10" HATCH

GAUGE HEIGHT 17'-06 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,467.61	0	3,825.33	0	4,182.49	0	4,539.16	0	4,894.51	0		0		0		0		0	
1/4	3,475.07	1/4	3,832.78	1/4	4,189.92	1/4	4,546.59	1/4	4,901.86	1/4		1/4	1/4	1/4	1/4		1/4	1/4	1/4
1/2	3,482.52	1/2	3,840.23	1/2	4,197.35	1/2	4,554.02	1/2	4,909.21	1/2		1/2	1/2	1/2	1/2		1/2	1/2	1/2
3/4	3,489.97	3/4	3,847.69	3/4	4,204.78	3/4	4,561.45	3/4	4,916.56	3/4		3/4	3/4	3/4	3/4		3/4	3/4	3/4
1	3,497.42	1	3,855.14	1	4,212.21	1	4,568.88	1	4,923.91	1		1		1		1		1	
1/4	3,504.88	1/4	3,862.59	1/4	4,219.64	1/4	4,576.31	1/4	4,931.23	1/4		1/4	1/4	1/4	1/4		1/4	1/4	1/4
1/2	3,512.33	1/2	3,870.04	1/2	4,227.07	1/2	4,583.74	1/2	4,938.55	1/2		1/2	1/2	1/2	1/2		1/2	1/2	1/2
3/4	3,519.78	3/4	3,877.50	3/4	4,234.50	3/4	4,591.17	3/4	4,945.86	3/4		3/4	3/4	3/4	3/4		3/4	3/4	3/4
2	3,527.23	2	3,884.95	2	4,241.93	2	4,598.61	2	4,953.18	2		2		2		2		2	
1/4	3,534.69	1/4	3,892.40	1/4	4,249.36	1/4	4,606.04	1/4	4,960.04	1/4		1/4	1/4	1/4	1/4		1/4	1/4	1/4
1/2	3,542.14	1/2	3,899.85	1/2	4,256.79	1/2	4,613.47	1/2	4,966.90	1/2		1/2	1/2	1/2	1/2		1/2	1/2	1/2
3/4	3,549.59	3/4	3,907.31	3/4	4,264.22	3/4	4,620.90	3/4	4,973.75	3/4		3/4	3/4	3/4	3/4		3/4	3/4	3/4
3	3,557.04	3	3,914.76	3	4,271.65	3	4,628.33	3	4,980.61	3		3		3		3		3	
1/4	3,564.50	1/4	3,922.21	1/4	4,279.09	1/4	4,635.76	1/4	4,986.42	1/4		1/4	1/4	1/4	1/4		1/4	1/4	1/4
1/2	3,571.95	1/2	3,929.66	1/2	4,286.52	1/2	4,643.19	1/2	4,992.22	1/2		1/2	1/2	1/2	1/2		1/2	1/2	1/2
3/4	3,579.40	3/4	3,937.12	3/4	4,293.95	3/4	4,650.62	3/4	4,998.03	3/4		3/4	3/4	3/4	3/4		3/4	3/4	3/4
4	3,586.85	4	3,944.57	4	4,301.38	4	4,658.05	4	5,003.84	4		4		4		4		4	
1/4	3,594.31	1/4	3,952.02	1/4	4,308.81	1/4	4,665.48	1/4	5,008.40	1/4		1/4	1/4	1/4	1/4		1/4	1/4	1/4
1/2	3,601.76	1/2	3,959.47	1/2	4,316.24	1/2	4,672.91	1/2	5,012.96	1/2		1/2	1/2	1/2	1/2		1/2	1/2	1/2
3/4	3,609.21	3/4	3,966.93	3/4	4,323.67	3/4	4,680.34	3/4	5,017.53	3/4		3/4	3/4	3/4	3/4		3/4	3/4	3/4
5	3,616.66	5	3,974.38	5	4,331.10	5	4,687.77	5	5,022.09	5		5		5		5		5	
1/4	3,624.12	1/4	3,981.82	1/4	4,338.53	1/4	4,695.20	1/4	5,025.41	1/4		1/4	1/4	1/4	1/4		1/4	1/4	1/4
1/2	3,631.57	1/2	3,989.26	1/2	4,345.96	1/2	4,702.64	1/2	5,028.73	1/2		1/2	1/2	1/2	1/2		1/2	1/2	1/2
3/4	3,639.02	3/4	3,996.71	3/4	4,353.39	3/4	4,710.07	3/4	5,032.05	3/4		3/4	3/4	3/4	3/4		3/4	3/4	3/4
6	3,646.47	6	4,004.15	6	4,360.82	6	4,717.50	6	5,035.37	6		6		6		6		6	
1/4	3,653.92	1/4	4,011.58	1/4	4,368.25	1/4	4,724.93	1/4	5,037.45	1/4		1/4	1/4	1/4	1/4		1/4	1/4	1/4
1/2	3,661.38	1/2	4,019.01	1/2	4,375.68	1/2	4,732.36	1/2	5,039.53	1/2		1/2	1/2	1/2	1/2		1/2	1/2	1/2
3/4	3,668.83	3/4	4,026.44	3/4	4,383.12	3/4	4,739.79	3/4	5,041.61	3/4		3/4	3/4	3/4	3/4		3/4	3/4	3/4
7	3,676.28	7	4,033.87	7	4,390.55	7	4,747.22	7	5,043.69	7		7		7		7		7	
1/4	3,683.73	1/4	4,041.30	1/4	4,397.98	1/4	4,754.61	1/4		1/4		1/4	1/4	1/4	1/4		1/4	1/4	1/4
1/2	3,691.19	1/2	4,048.73	1/2	4,405.41	1/2	4,762.01	1/2		1/2		1/2	1/2	1/2	1/2		1/2	1/2	1/2
3/4	3,698.64	3/4	4,056.16	3/4	4,412.84	3/4	4,769.40	3/4		3/4		3/4	3/4	3/4	3/4		3/4	3/4	3/4
8	3,706.09	8	4,063.60	8	4,420.27	8	4,776.80	8		8		8		8		8		8	
1/4	3,713.54	1/4	4,071.03	1/4	4,427.70	1/4	4,784.15	1/4		1/4		1/4	1/4	1/4	1/4		1/4	1/4	1/4
1/2	3,721.00	1/2	4,078.46	1/2	4,435.13	1/2	4,791.51	1/2		1/2		1/2	1/2	1/2	1/2		1/2	1/2	1/2
3/4	3,728.45	3/4	4,085.89	3/4	4,442.56	3/4	4,798.87	3/4		3/4		3/4	3/4	3/4	3/4		3/4	3/4	3/4
9	3,735.90	9	4,093.32	9	4,449.99	9	4,806.22	9		9		9		9		9		9	
1/4	3,743.35	1/4	4,100.75	1/4	4,457.42	1/4	4,813.58	1/4		1/4		1/4	1/4	1/4	1/4		1/4	1/4	1/4
1/2	3,750.81	1/2	4,108.18	1/2	4,464.85	1/2	4,820.94	1/2		1/2		1/2	1/2	1/2	1/2		1/2	1/2	1/2
3/4	3,758.26	3/4	4,115.61	3/4	4,472.28	3/4	4,828.30	3/4		3/4		3/4	3/4	3/4	3/4		3/4	3/4	3/4
10	3,765.71	10	4,123.04	10	4,479.71	10	4,835.65	10		10		10		10		10		10	
1/4	3,773.16	1/4	4,130.47	1/4	4,487.15	1/4	4,843.01	1/4		1/4		1/4	1/4	1/4	1/4		1/4	1/4	1/4
1/2	3,780.62	1/2	4,137.90	1/2	4,494.58	1/2	4,850.37	1/2		1/2		1/2	1/2	1/2	1/2		1/2	1/2	1/2
3/4	3,788.07	3/4	4,145.33	3/4	4,502.01	3/4	4,857.73	3/4		3/4		3/4	3/4	3/4	3/4		3/4	3/4	3/4
11	3,795.52	11	4,152.76	11	4,509.44	11	4,865.08	11		11		11		11		11		11	
1/4	3,802.97	1/4	4,160.19	1/4	4,516.87	1/4	4,872.44	1/4		1/4		1/4	1/4	1/4	1/4		1/4	1/4	1/4
1/2	3,810.43	1/2	4,167.62	1/2	4,524.30	1/2	4,879.80	1/2		1/2		1/2	1/2	1/2	1/2		1/2	1/2	1/2
3/4	3,817.88	3/4	4,175.06	3/4	4,531.73	3/4	4,887.16	3/4		3/4		3/4	3/4	3/4	3/4		3/4	3/4	3/4

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

CANCELS AND SUPERCEDES
 ALL PRIOR TO 01/2019

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "E2MS 313"

1 STBD

INNAGE TABLE

10" HATCH

GAUGE HEIGHT 17'-07"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,467.81	0	3,825.33	0	4,182.29	0	4,538.78	0	4,893.93	0		0		0		0		0	
1/4	3,475.26	1/4	3,832.78	1/4	4,189.72	1/4	4,546.20	1/4	4,901.28	1/4		1/4		1/4		1/4		1/4	
1/2	3,482.71	1/2	3,840.23	1/2	4,197.15	1/2	4,553.63	1/2	4,908.63	1/2		1/2		1/2		1/2		1/2	
3/4	3,490.16	3/4	3,847.68	3/4	4,204.57	3/4	4,561.06	3/4	4,915.97	3/4		3/4		3/4		3/4		3/4	
1	3,497.60	1	3,855.13	1	4,212.00	1	4,568.48	1	4,923.32	1		1		1		1		1	
1/4	3,505.05	1/4	3,862.58	1/4	4,219.43	1/4	4,575.91	1/4	4,930.63	1/4		1/4		1/4		1/4		1/4	
1/2	3,512.50	1/2	3,870.02	1/2	4,226.85	1/2	4,583.34	1/2	4,937.94	1/2		1/2		1/2		1/2		1/2	
3/4	3,519.95	3/4	3,877.47	3/4	4,234.28	3/4	4,590.76	3/4	4,945.26	3/4		3/4		3/4		3/4		3/4	
2	3,527.40	2	3,884.92	2	4,241.71	2	4,598.19	2	4,952.57	2		2		2		2		2	
1/4	3,534.85	1/4	3,892.37	1/4	4,249.13	1/4	4,605.62	1/4	4,959.42	1/4		1/4		1/4		1/4		1/4	
1/2	3,542.30	1/2	3,899.82	1/2	4,256.56	1/2	4,613.04	1/2	4,966.28	1/2		1/2		1/2		1/2		1/2	
3/4	3,549.74	3/4	3,907.27	3/4	4,263.99	3/4	4,620.47	3/4	4,973.13	3/4		3/4		3/4		3/4		3/4	
3	3,557.19	3	3,914.72	3	4,271.41	3	4,627.90	3	4,979.98	3		3		3		3		3	
1/4	3,564.64	1/4	3,922.16	1/4	4,278.84	1/4	4,635.32	1/4	4,985.79	1/4		1/4		1/4		1/4		1/4	
1/2	3,572.09	1/2	3,929.61	1/2	4,286.27	1/2	4,642.75	1/2	4,991.59	1/2		1/2		1/2		1/2		1/2	
3/4	3,579.54	3/4	3,937.06	3/4	4,293.70	3/4	4,650.18	3/4	4,997.39	3/4		3/4		3/4		3/4		3/4	
4	3,586.99	4	3,944.51	4	4,301.12	4	4,657.60	4	5,003.20	4		4		4		4		4	
1/4	3,594.43	1/4	3,951.96	1/4	4,308.55	1/4	4,665.03	1/4	5,007.76	1/4		1/4		1/4		1/4		1/4	
1/2	3,601.88	1/2	3,959.41	1/2	4,315.98	1/2	4,672.46	1/2	5,012.32	1/2		1/2		1/2		1/2		1/2	
3/4	3,609.33	3/4	3,966.85	3/4	4,323.40	3/4	4,679.88	3/4	5,016.88	3/4		3/4		3/4		3/4		3/4	
5	3,616.78	5	3,974.30	5	4,330.83	5	4,687.31	5	5,021.44	5		5		5		5		5	
1/4	3,624.23	1/4	3,981.74	1/4	4,338.26	1/4	4,694.74	1/4	5,024.76	1/4		1/4		1/4		1/4		1/4	
1/2	3,631.68	1/2	3,989.18	1/2	4,345.68	1/2	4,702.16	1/2	5,028.08	1/2		1/2		1/2		1/2		1/2	
3/4	3,639.12	3/4	3,996.62	3/4	4,353.11	3/4	4,709.59	3/4	5,031.40	3/4		3/4		3/4		3/4		3/4	
6	3,646.57	6	4,004.05	6	4,360.54	6	4,717.02	6	5,034.72	6		6		6		6		6	
1/4	3,654.02	1/4	4,011.48	1/4	4,367.96	1/4	4,724.44	1/4	5,036.79	1/4		1/4		1/4		1/4		1/4	
1/2	3,661.47	1/2	4,018.91	1/2	4,375.39	1/2	4,731.87	1/2	5,038.87	1/2		1/2		1/2		1/2		1/2	
3/4	3,668.92	3/4	4,026.33	3/4	4,382.82	3/4	4,739.30	3/4	5,040.95	3/4		3/4		3/4		3/4		3/4	
7	3,676.37	7	4,033.76	7	4,390.24	7	4,746.72	7	5,043.03	7		7		7		7		7	
1/4	3,683.81	1/4	4,041.19	1/4	4,397.67	1/4	4,754.11	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,691.26	1/2	4,048.61	1/2	4,405.10	1/2	4,761.50	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,698.71	3/4	4,056.04	3/4	4,412.52	3/4	4,768.89	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,706.16	8	4,063.47	8	4,419.95	8	4,776.28	8		8		8		8		8		8	
1/4	3,713.61	1/4	4,070.89	1/4	4,427.38	1/4	4,783.64	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,721.06	1/2	4,078.32	1/2	4,434.80	1/2	4,790.99	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,728.51	3/4	4,085.75	3/4	4,442.23	3/4	4,798.34	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,735.95	9	4,093.17	9	4,449.66	9	4,805.69	9		9		9		9		9		9	
1/4	3,743.40	1/4	4,100.60	1/4	4,457.08	1/4	4,813.05	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,750.85	1/2	4,108.03	1/2	4,464.51	1/2	4,820.40	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,758.30	3/4	4,115.45	3/4	4,471.94	3/4	4,827.75	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,765.75	10	4,122.88	10	4,479.36	10	4,835.11	10		10		10		10		10		10	
1/4	3,773.20	1/4	4,130.31	1/4	4,486.79	1/4	4,842.46	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,780.64	1/2	4,137.73	1/2	4,494.22	1/2	4,849.81	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,788.09	3/4	4,145.16	3/4	4,501.64	3/4	4,857.17	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,795.54	11	4,152.59	11	4,509.07	11	4,864.52	11		11		11		11		11		11	
1/4	3,802.99	1/4	4,160.01	1/4	4,516.50	1/4	4,871.88	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,810.44	1/2	4,167.44	1/2	4,523.92	1/2	4,879.23	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,817.89	3/4	4,174.87	3/4	4,531.35	3/4	4,886.58	3/4		3/4		3/4		3/4		3/4		3/4	

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

CANCELS AND SUPERCEDES
 ALL PRIOR TO 01/2019

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "E2MS 313"

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

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,525.98	0	3,884.48	0	4,242.43	0	4,599.89	0	4,956.16	0		0		0		0		0	
1/4	3,533.44	1/4	3,891.95	1/4	4,249.87	1/4	4,607.34	1/4	4,963.53	1/4		1/4	1/4	1/4	1/4		1/4	1/4	1/4
1/2	3,540.91	1/2	3,899.42	1/2	4,257.32	1/2	4,614.79	1/2	4,970.90	1/2		1/2	1/2	1/2	1/2		1/2	1/2	1/2
3/4	3,548.38	3/4	3,906.89	3/4	4,264.77	3/4	4,622.23	3/4	4,978.28	3/4		3/4	3/4	3/4	3/4		3/4	3/4	3/4
1	3,555.85	1	3,914.36	1	4,272.22	1	4,629.68	1	4,985.65	1		1		1		1		1	
1/4	3,563.32	1/4	3,921.83	1/4	4,279.66	1/4	4,637.13	1/4	4,992.99	1/4		1/4	1/4	1/4	1/4		1/4	1/4	1/4
1/2	3,570.79	1/2	3,929.30	1/2	4,287.11	1/2	4,644.58	1/2	5,000.33	1/2		1/2	1/2	1/2	1/2		1/2	1/2	1/2
3/4	3,578.26	3/4	3,936.77	3/4	4,294.56	3/4	4,652.02	3/4	5,007.66	3/4		3/4	3/4	3/4	3/4		3/4	3/4	3/4
2	3,585.73	2	3,944.23	2	4,302.00	2	4,659.47	2	5,015.00	2		2		2		2		2	
1/4	3,593.20	1/4	3,951.70	1/4	4,309.45	1/4	4,666.92	1/4	5,021.88	1/4		1/4	1/4	1/4	1/4		1/4	1/4	1/4
1/2	3,600.66	1/2	3,959.17	1/2	4,316.90	1/2	4,674.36	1/2	5,028.76	1/2		1/2	1/2	1/2	1/2		1/2	1/2	1/2
3/4	3,608.13	3/4	3,966.64	3/4	4,324.35	3/4	4,681.81	3/4	5,035.64	3/4		3/4	3/4	3/4	3/4		3/4	3/4	3/4
3	3,615.60	3	3,974.11	3	4,331.79	3	4,689.26	3	5,042.52	3		3		3		3		3	
1/4	3,623.07	1/4	3,981.58	1/4	4,339.24	1/4	4,696.71	1/4	5,048.34	1/4		1/4	1/4	1/4	1/4		1/4	1/4	1/4
1/2	3,630.54	1/2	3,989.05	1/2	4,346.69	1/2	4,704.15	1/2	5,054.17	1/2		1/2	1/2	1/2	1/2		1/2	1/2	1/2
3/4	3,638.01	3/4	3,996.52	3/4	4,354.13	3/4	4,711.60	3/4	5,059.99	3/4		3/4	3/4	3/4	3/4		3/4	3/4	3/4
4	3,645.48	4	4,003.99	4	4,361.58	4	4,719.05	4	5,065.82	4		4		4		4		4	
1/4	3,652.95	1/4	4,011.45	1/4	4,369.03	1/4	4,726.49	1/4	5,070.40	1/4		1/4	1/4	1/4	1/4		1/4	1/4	1/4
1/2	3,660.42	1/2	4,018.92	1/2	4,376.48	1/2	4,733.94	1/2	5,074.98	1/2		1/2	1/2	1/2	1/2		1/2	1/2	1/2
3/4	3,667.88	3/4	4,026.39	3/4	4,383.92	3/4	4,741.39	3/4	5,079.56	3/4		3/4	3/4	3/4	3/4		3/4	3/4	3/4
5	3,675.35	5	4,033.86	5	4,391.37	5	4,748.84	5	5,084.14	5		5		5		5		5	
1/4	3,682.82	1/4	4,041.32	1/4	4,398.82	1/4	4,756.28	1/4	5,087.47	1/4		1/4	1/4	1/4	1/4		1/4	1/4	1/4
1/2	3,690.29	1/2	4,048.78	1/2	4,406.26	1/2	4,763.73	1/2	5,090.81	1/2		1/2	1/2	1/2	1/2		1/2	1/2	1/2
3/4	3,697.76	3/4	4,056.24	3/4	4,413.71	3/4	4,771.18	3/4	5,094.14	3/4		3/4	3/4	3/4	3/4		3/4	3/4	3/4
6	3,705.23	6	4,063.69	6	4,421.16	6	4,778.62	6	5,097.48	6		6		6		6		6	
1/4	3,712.70	1/4	4,071.14	1/4	4,428.61	1/4	4,786.07	1/4	5,099.57	1/4		1/4	1/4	1/4	1/4		1/4	1/4	1/4
1/2	3,720.17	1/2	4,078.59	1/2	4,436.05	1/2	4,793.52	1/2	5,101.66	1/2		1/2	1/2	1/2	1/2		1/2	1/2	1/2
3/4	3,727.64	3/4	4,086.04	3/4	4,443.50	3/4	4,800.97	3/4	5,103.75	3/4		3/4	3/4	3/4	3/4		3/4	3/4	3/4
7	3,735.11	7	4,093.48	7	4,450.95	7	4,808.41	7	5,105.84	7		7		7		7		7	
1/4	3,742.57	1/4	4,100.93	1/4	4,458.40	1/4	4,815.83	1/4		1/4		1/4	1/4	1/4	1/4		1/4	1/4	1/4
1/2	3,750.04	1/2	4,108.38	1/2	4,465.84	1/2	4,823.24	1/2		1/2		1/2	1/2	1/2	1/2		1/2	1/2	1/2
3/4	3,757.51	3/4	4,115.82	3/4	4,473.29	3/4	4,830.66	3/4		3/4		3/4	3/4	3/4	3/4		3/4	3/4	3/4
8	3,764.98	8	4,123.27	8	4,480.74	8	4,838.07	8		8		8		8		8		8	
1/4	3,772.45	1/4	4,130.72	1/4	4,488.18	1/4	4,845.45	1/4		1/4		1/4	1/4	1/4	1/4		1/4	1/4	1/4
1/2	3,779.92	1/2	4,138.17	1/2	4,495.63	1/2	4,852.83	1/2		1/2		1/2	1/2	1/2	1/2		1/2	1/2	1/2
3/4	3,787.39	3/4	4,145.61	3/4	4,503.08	3/4	4,860.21	3/4		3/4		3/4	3/4	3/4	3/4		3/4	3/4	3/4
9	3,794.86	9	4,153.06	9	4,510.53	9	4,867.60	9		9		9		9		9		9	
1/4	3,802.33	1/4	4,160.51	1/4	4,517.97	1/4	4,874.98	1/4		1/4		1/4	1/4	1/4	1/4		1/4	1/4	1/4
1/2	3,809.79	1/2	4,167.95	1/2	4,525.42	1/2	4,882.36	1/2		1/2		1/2	1/2	1/2	1/2		1/2	1/2	1/2
3/4	3,817.26	3/4	4,175.40	3/4	4,532.87	3/4	4,889.74	3/4		3/4		3/4	3/4	3/4	3/4		3/4	3/4	3/4
10	3,824.73	10	4,182.85	10	4,540.31	10	4,897.12	10		10		10		10		10		10	
1/4	3,832.20	1/4	4,190.30	1/4	4,547.76	1/4	4,904.50	1/4		1/4		1/4	1/4	1/4	1/4		1/4	1/4	1/4
1/2	3,839.67	1/2	4,197.74	1/2	4,555.21	1/2	4,911.88	1/2		1/2		1/2	1/2	1/2	1/2		1/2	1/2	1/2
3/4	3,847.14	3/4	4,205.19	3/4	4,562.66	3/4	4,919.26	3/4		3/4		3/4	3/4	3/4	3/4		3/4	3/4	3/4
11	3,854.61	11	4,212.64	11	4,570.10	11	4,926.64	11		11		11		11		11		11	
1/4	3,862.08	1/4	4,220.08	1/4	4,577.55	1/4	4,934.02	1/4		1/4		1/4	1/4	1/4	1/4		1/4	1/4	1/4
1/2	3,869.55	1/2	4,227.53	1/2	4,585.00	1/2	4,941.40	1/2		1/2		1/2	1/2	1/2	1/2		1/2	1/2	1/2
3/4	3,877.01	3/4	4,234.98	3/4	4,592.44	3/4	4,948.78	3/4		3/4		3/4	3/4	3/4	3/4		3/4	3/4	3/4

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

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2019

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "E2MS 313"

2 STBD INNAGE TABLE

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

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	2.23	0	314.00	0	672.66	0	1,031.02	0	1,389.50	0	1,748.17	0	2,106.85	0	2,465.52	0	2,824.12	0	3,182.69
1/4	4.10	1/4	321.47	1/4	680.14	1/4	1,038.48	1/4	1,396.98	1/4	1,755.65	1/4	2,114.32	1/4	2,472.99	1/4	2,831.59	1/4	3,190.16
1/2	5.97	1/2	328.94	1/2	687.61	1/2	1,045.94	1/2	1,404.45	1/2	1,763.12	1/2	2,121.79	1/2	2,480.46	1/2	2,839.07	1/2	3,197.63
3/4	7.84	3/4	336.42	3/4	695.08	3/4	1,053.40	3/4	1,411.92	3/4	1,770.59	3/4	2,129.26	3/4	2,487.93	3/4	2,846.54	3/4	3,205.11
1	9.71	1	343.89	1	702.55	1	1,060.85	1	1,419.39	1	1,778.06	1	2,136.73	1	2,495.40	1	2,854.01	1	3,212.58
1/4	13.44	1/4	351.36	1/4	710.03	1/4	1,068.31	1/4	1,426.87	1/4	1,785.54	1/4	2,144.21	1/4	2,502.88	1/4	2,861.48	1/4	3,220.05
1/2	17.18	1/2	358.83	1/2	717.50	1/2	1,075.77	1/2	1,434.34	1/2	1,793.01	1/2	2,151.68	1/2	2,510.35	1/2	2,868.95	1/2	3,227.52
3/4	20.91	3/4	366.30	3/4	724.97	3/4	1,083.23	3/4	1,441.81	3/4	1,800.48	3/4	2,159.15	3/4	2,517.82	3/4	2,876.42	3/4	3,234.99
2	24.65	2	373.78	2	732.44	2	1,090.69	2	1,449.28	2	1,807.95	2	2,166.62	2	2,525.29	2	2,883.89	2	3,242.46
1/4	30.25	1/4	381.25	1/4	739.91	1/4	1,098.15	1/4	1,456.76	1/4	1,815.43	1/4	2,174.10	1/4	2,532.77	1/4	2,891.36	1/4	3,249.93
1/2	35.86	1/2	388.72	1/2	747.39	1/2	1,105.61	1/2	1,464.23	1/2	1,822.90	1/2	2,181.57	1/2	2,540.24	1/2	2,898.83	1/2	3,257.40
3/4	41.46	3/4	396.19	3/4	754.86	3/4	1,113.07	3/4	1,471.70	3/4	1,830.37	3/4	2,189.04	3/4	2,547.71	3/4	2,906.30	3/4	3,264.87
3	47.06	3	403.67	3	762.33	3	1,120.54	3	1,479.17	3	1,837.84	3	2,196.51	3	2,555.18	3	2,913.77	3	3,272.34
1/4	54.05	1/4	411.14	1/4	769.80	1/4	1,128.00	1/4	1,486.64	1/4	1,845.31	1/4	2,203.99	1/4	2,562.66	1/4	2,921.24	1/4	3,279.81
1/2	61.04	1/2	418.61	1/2	777.28	1/2	1,135.47	1/2	1,494.12	1/2	1,852.79	1/2	2,211.46	1/2	2,570.13	1/2	2,928.71	1/2	3,287.28
3/4	68.02	3/4	426.08	3/4	784.75	3/4	1,142.94	3/4	1,501.59	3/4	1,860.26	3/4	2,218.93	3/4	2,577.60	3/4	2,936.18	3/4	3,294.75
4	75.01	4	433.55	4	792.22	4	1,150.40	4	1,509.06	4	1,867.73	4	2,226.40	4	2,585.07	4	2,943.65	4	3,302.22
1/4	82.46	1/4	441.03	1/4	799.69	1/4	1,157.87	1/4	1,516.53	1/4	1,875.20	1/4	2,233.87	1/4	2,592.54	1/4	2,951.12	1/4	3,309.69
1/2	89.91	1/2	448.50	1/2	807.16	1/2	1,165.34	1/2	1,524.01	1/2	1,882.68	1/2	2,241.35	1/2	2,600.02	1/2	2,958.59	1/2	3,317.16
3/4	97.35	3/4	455.97	3/4	814.64	3/4	1,172.81	3/4	1,531.48	3/4	1,890.15	3/4	2,248.82	3/4	2,607.49	3/4	2,966.06	3/4	3,324.63
5	104.80	5	463.44	5	822.11	5	1,180.28	5	1,538.95	5	1,897.62	5	2,256.29	5	2,614.96	5	2,973.53	5	3,332.10
1/4	112.27	1/4	470.91	1/4	829.58	1/4	1,187.75	1/4	1,546.42	1/4	1,905.09	1/4	2,263.76	1/4	2,622.43	1/4	2,981.00	1/4	3,339.57
1/2	119.74	1/2	478.39	1/2	837.05	1/2	1,195.22	1/2	1,553.90	1/2	1,912.57	1/2	2,271.24	1/2	2,629.91	1/2	2,988.47	1/2	3,347.04
3/4	127.20	3/4	485.86	3/4	844.53	3/4	1,202.70	3/4	1,561.37	3/4	1,920.04	3/4	2,278.71	3/4	2,637.38	3/4	2,995.94	3/4	3,354.51
6	134.67	6	493.33	6	852.00	6	1,210.17	6	1,568.84	6	1,927.51	6	2,286.18	6	2,644.85	6	3,003.41	6	3,361.98
1/4	142.14	1/4	500.80	1/4	859.46	1/4	1,217.64	1/4	1,576.31	1/4	1,934.98	1/4	2,293.65	1/4	2,652.32	1/4	3,010.88	1/4	3,369.45
1/2	149.61	1/2	508.28	1/2	866.93	1/2	1,225.11	1/2	1,583.78	1/2	1,942.45	1/2	2,301.12	1/2	2,659.79	1/2	3,018.35	1/2	3,376.92
3/4	157.08	3/4	515.75	3/4	874.39	3/4	1,232.59	3/4	1,591.26	3/4	1,949.93	3/4	2,308.60	3/4	2,667.25	3/4	3,025.82	3/4	3,384.39
7	164.55	7	523.22	7	881.86	7	1,240.06	7	1,598.73	7	1,957.40	7	2,316.07	7	2,674.72	7	3,033.29	7	3,391.86
1/4	172.03	1/4	530.69	1/4	889.32	1/4	1,247.53	1/4	1,606.20	1/4	1,964.87	1/4	2,323.54	1/4	2,682.19	1/4	3,040.76	1/4	3,399.33
1/2	179.50	1/2	538.16	1/2	896.78	1/2	1,255.00	1/2	1,613.67	1/2	1,972.34	1/2	2,331.01	1/2	2,689.66	1/2	3,048.23	1/2	3,406.80
3/4	186.97	3/4	545.64	3/4	904.23	3/4	1,262.48	3/4	1,621.15	3/4	1,979.82	3/4	2,338.49	3/4	2,697.13	3/4	3,055.70	3/4	3,414.27
8	194.44	8	553.11	8	911.69	8	1,269.95	8	1,628.62	8	1,987.29	8	2,345.96	8	2,704.60	8	3,063.17	8	3,421.74
1/4	201.92	1/4	560.58	1/4	919.15	1/4	1,277.42	1/4	1,636.09	1/4	1,994.76	1/4	2,353.43	1/4	2,712.07	1/4	3,070.64	1/4	3,429.21
1/2	209.39	1/2	568.05	1/2	926.61	1/2	1,284.89	1/2	1,643.56	1/2	2,002.23	1/2	2,360.90	1/2	2,719.54	1/2	3,078.11	1/2	3,436.68
3/4	216.86	3/4	575.53	3/4	934.07	3/4	1,292.36	3/4	1,651.03	3/4	2,009.71	3/4	2,368.38	3/4	2,727.01	3/4	3,085.58	3/4	3,444.15
9	224.33	9	583.00	9	941.52	9	1,299.84	9	1,658.51	9	2,017.18	9	2,375.85	9	2,734.48	9	3,093.05	9	3,451.62
1/4	231.80	1/4	590.47	1/4	948.98	1/4	1,307.31	1/4	1,665.98	1/4	2,024.65	1/4	2,383.32	1/4	2,741.95	1/4	3,100.52	1/4	3,459.09
1/2	239.28	1/2	597.94	1/2	956.44	1/2	1,314.78	1/2	1,673.45	1/2	2,032.12	1/2	2,390.79	1/2	2,749.42	1/2	3,107.99	1/2	3,466.56
3/4	246.75	3/4	605.41	3/4	963.90	3/4	1,322.25	3/4	1,680.92	3/4	2,039.59	3/4	2,398.26	3/4	2,756.89	3/4	3,115.46	3/4	3,474.03
10	254.22	10	612.89	10	971.36	10	1,329.73	10	1,688.40	10	2,047.07	10	2,405.74	10	2,764.36	10	3,122.93	10	3,481.50
1/4	261.69	1/4	620.36	1/4	978.82	1/4	1,337.20	1/4	1,695.87	1/4	2,054.54	1/4	2,413.21	1/4	2,771.83	1/4	3,130.40	1/4	3,488.97
1/2	269.17	1/2	627.83	1/2	986.27	1/2	1,344.67	1/2	1,703.34	1/2	2,062.01	1/2	2,420.68	1/2	2,779.30	1/2	3,137.87	1/2	3,496.44
3/4	276.64	3/4	635.30	3/4	993.73	3/4	1,352.14	3/4	1,710.81	3/4	2,069.48	3/4	2,428.15	3/4	2,786.77	3/4	3,145.34	3/4	3,503.91
11	284.11	11	642.78	11	1,001.19	11	1,359.62	11	1,718.29	11	2,076.96	11	2,435.63	11	2,794.24	11	3,152.81	11	3,511.38
1/4	291.58	1/4	650.25	1/4	1,008.65	1/4	1,367.09	1/4	1,725.76	1/4	2,084.43	1/4	2,443.10	1/4	2,801.71	1/4	3,160.28	1/4	3,518.85
1/2	299.05	1/2	657.72	1/2	1,016.11	1/2	1,374.56	1/2	1,733.23	1/2	2,091.90	1/2	2,450.57	1/2	2,809.18	1/2	3,167.75	1/2	3,526.32
3/4	306.53	3/4	665.19	3/4	1,023.56	3/4	1,382.03	3/4	1,740.70	3/4	2,099.37	3/4	2,458.04	3/4	2,816.65	3/4	3,175.22	3/4	3,533.79

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

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



BARGE "E2MS 313"

2 STBD

INNAGE TABLE

10" HATCH

GAUGE HEIGHT 17'-06 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,541.26	0	3,899.83	0	4,257.82	0	4,615.35	0	4,971.56	0		0		0		0		0	
1/4	3,548.73	1/4	3,907.30	1/4	4,265.27	1/4	4,622.80	1/4	4,978.93	1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,556.20	1/2	3,914.77	1/2	4,272.72	1/2	4,630.24	1/2	4,986.30	1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,563.67	3/4	3,922.24	3/4	4,280.17	3/4	4,637.69	3/4	4,993.66	3/4		3/4	3/4	3/4	3/4		3/4	3/4	
1	3,571.14	1	3,929.71	1	4,287.62	1	4,645.14	1	5,001.03	1		1		1		1		1	
1/4	3,578.62	1/4	3,937.18	1/4	4,295.07	1/4	4,652.59	1/4	5,008.37	1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,586.09	1/2	3,944.65	1/2	4,302.51	1/2	4,660.04	1/2	5,015.70	1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,593.56	3/4	3,952.13	3/4	4,309.96	3/4	4,667.49	3/4	5,023.04	3/4		3/4	3/4	3/4	3/4		3/4	3/4	
2	3,601.03	2	3,959.60	2	4,317.41	2	4,674.93	2	5,030.37	2		2		2		2		2	
1/4	3,608.50	1/4	3,967.07	1/4	4,324.86	1/4	4,682.38	1/4	5,037.25	1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,615.97	1/2	3,974.54	1/2	4,332.31	1/2	4,689.83	1/2	5,044.12	1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,623.44	3/4	3,982.01	3/4	4,339.76	3/4	4,697.28	3/4	5,050.99	3/4		3/4	3/4	3/4	3/4		3/4	3/4	
3	3,630.91	3	3,989.48	3	4,347.20	3	4,704.73	3	5,057.87	3		3		3		3		3	
1/4	3,638.38	1/4	3,996.95	1/4	4,354.65	1/4	4,712.18	1/4	5,063.69	1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,645.85	1/2	4,004.42	1/2	4,362.10	1/2	4,719.62	1/2	5,069.51	1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,653.32	3/4	4,011.89	3/4	4,369.55	3/4	4,727.07	3/4	5,075.33	3/4		3/4	3/4	3/4	3/4		3/4	3/4	
4	3,660.79	4	4,019.36	4	4,377.00	4	4,734.52	4	5,081.15	4		4		4		4		4	
1/4	3,668.26	1/4	4,026.83	1/4	4,384.45	1/4	4,741.97	1/4	5,085.72	1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,675.73	1/2	4,034.30	1/2	4,391.90	1/2	4,749.42	1/2	5,090.30	1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,683.20	3/4	4,041.77	3/4	4,399.34	3/4	4,756.87	3/4	5,094.87	3/4		3/4	3/4	3/4	3/4		3/4	3/4	
5	3,690.67	5	4,049.24	5	4,406.79	5	4,764.32	5	5,099.45	5		5		5		5		5	
1/4	3,698.14	1/4	4,056.69	1/4	4,414.24	1/4	4,771.76	1/4	5,102.78	1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,705.61	1/2	4,064.15	1/2	4,421.69	1/2	4,779.21	1/2	5,106.11	1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,713.08	3/4	4,071.61	3/4	4,429.14	3/4	4,786.66	3/4	5,109.44	3/4		3/4	3/4	3/4	3/4		3/4	3/4	
6	3,720.55	6	4,079.06	6	4,436.59	6	4,794.11	6	5,112.77	6		6		6		6		6	
1/4	3,728.02	1/4	4,086.51	1/4	4,444.03	1/4	4,801.56	1/4	5,114.85	1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,735.49	1/2	4,093.96	1/2	4,451.48	1/2	4,809.01	1/2	5,116.93	1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,742.96	3/4	4,101.41	3/4	4,458.93	3/4	4,816.45	3/4	5,119.02	3/4		3/4	3/4	3/4	3/4		3/4	3/4	
7	3,750.43	7	4,108.86	7	4,466.38	7	4,823.90	7	5,121.10	7		7		7		7		7	
1/4	3,757.90	1/4	4,116.30	1/4	4,473.83	1/4	4,831.32	1/4		1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,765.37	1/2	4,123.75	1/2	4,481.28	1/2	4,838.73	1/2		1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,772.84	3/4	4,131.20	3/4	4,488.72	3/4	4,846.14	3/4		3/4		3/4	3/4	3/4	3/4		3/4	3/4	
8	3,780.31	8	4,138.65	8	4,496.17	8	4,853.55	8		8		8		8		8		8	
1/4	3,787.78	1/4	4,146.10	1/4	4,503.62	1/4	4,860.93	1/4		1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,795.25	1/2	4,153.55	1/2	4,511.07	1/2	4,868.30	1/2		1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,802.72	3/4	4,160.99	3/4	4,518.52	3/4	4,875.68	3/4		3/4		3/4	3/4	3/4	3/4		3/4	3/4	
9	3,810.19	9	4,168.44	9	4,525.97	9	4,883.05	9		9		9		9		9		9	
1/4	3,817.66	1/4	4,175.89	1/4	4,533.41	1/4	4,890.43	1/4		1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,825.13	1/2	4,183.34	1/2	4,540.86	1/2	4,897.80	1/2		1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,832.60	3/4	4,190.79	3/4	4,548.31	3/4	4,905.18	3/4		3/4		3/4	3/4	3/4	3/4		3/4	3/4	
10	3,840.07	10	4,198.24	10	4,555.76	10	4,912.55	10		10		10		10		10		10	
1/4	3,847.54	1/4	4,205.69	1/4	4,563.21	1/4	4,919.93	1/4		1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,855.01	1/2	4,213.13	1/2	4,570.66	1/2	4,927.30	1/2		1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,862.48	3/4	4,220.58	3/4	4,578.11	3/4	4,934.68	3/4		3/4		3/4	3/4	3/4	3/4		3/4	3/4	
11	3,869.95	11	4,228.03	11	4,585.55	11	4,942.05	11		11		11		11		11		11	
1/4	3,877.42	1/4	4,235.48	1/4	4,593.00	1/4	4,949.43	1/4		1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,884.89	1/2	4,242.93	1/2	4,600.45	1/2	4,956.81	1/2		1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,892.36	3/4	4,250.38	3/4	4,607.90	3/4	4,964.18	3/4		3/4		3/4	3/4	3/4	3/4		3/4	3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/11/2019 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

10" HATCH GAUGE HEIGHT 17'-07"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	2.22	0	312.45	0	668.81	0	1,017.32	0	1,367.94	0	1,724.06	0	2,079.40	0	2,435.42	0	2,791.19	0	3,146.93
1/4	4.08	1/4	319.87	1/4	676.23	1/4	1,024.45	1/4	1,375.36	1/4	1,731.48	1/4	2,086.80	1/4	2,442.83	1/4	2,798.60	1/4	3,154.34
1/2	5.94	1/2	327.30	1/2	683.66	1/2	1,031.58	1/2	1,382.78	1/2	1,738.89	1/2	2,094.21	1/2	2,450.25	1/2	2,806.01	1/2	3,161.75
3/4	7.80	3/4	334.72	3/4	691.08	3/4	1,038.70	3/4	1,390.20	3/4	1,746.30	3/4	2,101.61	3/4	2,457.66	3/4	2,813.42	3/4	3,169.16
1	9.66	1	342.14	1	698.51	1	1,045.83	1	1,397.62	1	1,753.71	1	2,109.02	1	2,465.07	1	2,820.83	1	3,176.57
1/4	13.38	1/4	349.57	1/4	705.93	1/4	1,052.96	1/4	1,405.04	1/4	1,761.12	1/4	2,116.44	1/4	2,472.48	1/4	2,828.25	1/4	3,183.97
1/2	17.09	1/2	356.99	1/2	713.35	1/2	1,060.09	1/2	1,412.46	1/2	1,768.52	1/2	2,123.85	1/2	2,479.90	1/2	2,835.66	1/2	3,191.37
3/4	20.81	3/4	364.42	3/4	720.78	3/4	1,067.22	3/4	1,419.88	3/4	1,775.92	3/4	2,131.27	3/4	2,487.31	3/4	2,843.07	3/4	3,198.76
2	24.53	2	371.84	2	728.20	2	1,074.35	2	1,427.30	2	1,783.32	2	2,138.68	2	2,494.72	2	2,850.48	2	3,206.16
1/4	30.11	1/4	379.27	1/4	735.63	1/4	1,081.51	1/4	1,434.71	1/4	1,790.73	1/4	2,146.10	1/4	2,502.13	1/4	2,857.89	1/4	3,213.54
1/2	35.68	1/2	386.69	1/2	743.05	1/2	1,088.67	1/2	1,442.13	1/2	1,798.13	1/2	2,153.51	1/2	2,509.55	1/2	2,865.30	1/2	3,220.92
3/4	41.26	3/4	394.11	3/4	750.48	3/4	1,095.84	3/4	1,449.55	3/4	1,805.53	3/4	2,160.93	3/4	2,516.96	3/4	2,872.71	3/4	3,228.31
3	46.84	3	401.54	3	757.90	3	1,103.00	3	1,456.97	3	1,812.94	3	2,168.35	3	2,524.37	3	2,880.12	3	3,235.69
1/4	53.79	1/4	408.96	1/4	765.32	1/4	1,110.20	1/4	1,464.39	1/4	1,820.34	1/4	2,175.76	1/4	2,531.78	1/4	2,887.54	1/4	3,243.07
1/2	60.74	1/2	416.39	1/2	772.75	1/2	1,117.40	1/2	1,471.81	1/2	1,827.74	1/2	2,183.18	1/2	2,539.19	1/2	2,894.95	1/2	3,250.46
3/4	67.69	3/4	423.81	3/4	780.17	3/4	1,124.60	3/4	1,479.23	3/4	1,835.15	3/4	2,190.59	3/4	2,546.61	3/4	2,902.36	3/4	3,257.84
4	74.64	4	431.24	4	787.60	4	1,131.79	4	1,486.65	4	1,842.55	4	2,198.01	4	2,554.02	4	2,909.77	4	3,265.22
1/4	82.06	1/4	438.66	1/4	794.99	1/4	1,139.00	1/4	1,494.07	1/4	1,849.95	1/4	2,205.43	1/4	2,561.43	1/4	2,917.18	1/4	3,272.60
1/2	89.47	1/2	446.08	1/2	802.38	1/2	1,146.21	1/2	1,501.49	1/2	1,857.35	1/2	2,212.84	1/2	2,568.84	1/2	2,924.59	1/2	3,279.99
3/4	96.88	3/4	453.51	3/4	809.78	3/4	1,153.41	3/4	1,508.91	3/4	1,864.76	3/4	2,220.26	3/4	2,576.26	3/4	2,932.00	3/4	3,287.37
5	104.29	5	460.93	5	817.17	5	1,160.62	5	1,516.33	5	1,872.16	5	2,227.67	5	2,583.67	5	2,939.41	5	3,294.75
1/4	111.72	1/4	468.36	1/4	824.42	1/4	1,167.93	1/4	1,523.75	1/4	1,879.56	1/4	2,235.09	1/4	2,591.08	1/4	2,946.82	1/4	3,302.14
1/2	119.15	1/2	475.78	1/2	831.68	1/2	1,175.25	1/2	1,531.16	1/2	1,886.97	1/2	2,242.51	1/2	2,598.49	1/2	2,954.24	1/2	3,309.52
3/4	126.58	3/4	483.20	3/4	838.94	3/4	1,182.57	3/4	1,538.58	3/4	1,894.37	3/4	2,249.92	3/4	2,605.91	3/4	2,961.65	3/4	3,316.90
6	134.01	6	490.63	6	846.19	6	1,189.88	6	1,546.00	6	1,901.77	6	2,257.34	6	2,613.32	6	2,969.06	6	3,324.28
1/4	141.45	1/4	498.05	1/4	853.33	1/4	1,197.30	1/4	1,553.42	1/4	1,909.17	1/4	2,264.76	1/4	2,620.73	1/4	2,976.47	1/4	3,331.66
1/2	148.88	1/2	505.48	1/2	860.47	1/2	1,204.72	1/2	1,560.84	1/2	1,916.58	1/2	2,272.17	1/2	2,628.14	1/2	2,983.88	1/2	3,339.04
3/4	156.32	3/4	512.90	3/4	867.61	3/4	1,212.14	3/4	1,568.26	3/4	1,923.98	3/4	2,279.59	3/4	2,635.55	3/4	2,991.29	3/4	3,346.43
7	163.75	7	520.33	7	874.75	7	1,219.56	7	1,575.68	7	1,931.38	7	2,287.01	7	2,642.97	7	2,998.70	7	3,353.81
1/4	171.19	1/4	527.75	1/4	881.88	1/4	1,226.98	1/4	1,583.10	1/4	1,938.79	1/4	2,294.43	1/4	2,650.38	1/4	3,006.11	1/4	3,361.18
1/2	178.63	1/2	535.17	1/2	889.01	1/2	1,234.40	1/2	1,590.52	1/2	1,946.19	1/2	2,301.85	1/2	2,657.79	1/2	3,013.53	1/2	3,368.55
3/4	186.06	3/4	542.60	3/4	896.14	3/4	1,241.82	3/4	1,597.94	3/4	1,953.59	3/4	2,309.27	3/4	2,665.20	3/4	3,020.94	3/4	3,375.93
8	193.50	8	550.02	8	903.26	8	1,249.23	8	1,605.36	8	1,960.99	8	2,316.70	8	2,672.61	8	3,028.35	8	3,383.30
1/4	200.93	1/4	557.45	1/4	910.39	1/4	1,256.65	1/4	1,612.78	1/4	1,968.40	1/4	2,324.12	1/4	2,680.02	1/4	3,035.76	1/4	3,390.56
1/2	208.37	1/2	564.87	1/2	917.52	1/2	1,264.07	1/2	1,620.19	1/2	1,975.80	1/2	2,331.54	1/2	2,687.43	1/2	3,043.17	1/2	3,397.81
3/4	215.81	3/4	572.29	3/4	924.65	3/4	1,271.49	3/4	1,627.61	3/4	1,983.20	3/4	2,338.96	3/4	2,694.84	3/4	3,050.58	3/4	3,405.07
9	223.24	9	579.72	9	931.78	9	1,278.91	9	1,635.03	9	1,990.61	9	2,346.38	9	2,702.26	9	3,057.99	9	3,412.33
1/4	230.68	1/4	587.14	1/4	938.91	1/4	1,286.33	1/4	1,642.45	1/4	1,998.01	1/4	2,353.80	1/4	2,709.67	1/4	3,065.40	1/4	3,419.23
1/2	238.11	1/2	594.57	1/2	946.03	1/2	1,293.75	1/2	1,649.87	1/2	2,005.41	1/2	2,361.23	1/2	2,717.08	1/2	3,072.82	1/2	3,426.14
3/4	245.55	3/4	601.99	3/4	953.16	3/4	1,301.17	3/4	1,657.29	3/4	2,012.81	3/4	2,368.65	3/4	2,724.49	3/4	3,080.23	3/4	3,433.04
10	252.98	10	609.42	10	960.29	10	1,308.59	10	1,664.71	10	2,020.22	10	2,376.07	10	2,731.90	10	3,087.64	10	3,439.94
1/4	260.42	1/4	616.84	1/4	967.42	1/4	1,316.01	1/4	1,672.13	1/4	2,027.62	1/4	2,383.49	1/4	2,739.31	1/4	3,095.05	1/4	3,446.37
1/2	267.86	1/2	624.26	1/2	974.55	1/2	1,323.43	1/2	1,679.55	1/2	2,035.02	1/2	2,390.91	1/2	2,746.72	1/2	3,102.46	1/2	3,452.80
3/4	275.29	3/4	631.69	3/4	981.68	3/4	1,330.85	3/4	1,686.97	3/4	2,042.41	3/4	2,398.33	3/4	2,754.13	3/4	3,109.87	3/4	3,459.23
11	282.73	11	639.11	11	988.80	11	1,338.27	11	1,694.39	11	2,049.81	11	2,405.75	11	2,761.54	11	3,117.28	11	3,465.65
1/4	290.16	1/4	646.54	1/4	995.93	1/4	1,345.68	1/4	1,701.81	1/4	2,057.21	1/4	2,413.17	1/4	2,768.96	1/4	3,124.69	1/4	3,471.61
1/2	297.59	1/2	653.96	1/2	1,003.06	1/2	1,353.10	1/2	1,709.23	1/2	2,064.61	1/2	2,420.59	1/2	2,776.37	1/2	3,132.10	1/2	3,477.57
3/4	305.02	3/4	661.39	3/4	1,010.19	3/4	1,360.52	3/4	1,716.64	3/4	2,072.00	3/4	2,428.00	3/4	2,783.78	3/4	3,139.52	3/4	3,483.52

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME.

GAUGE POINT: (10" HATCH) LOCATED 3'-00" OFF CENTERLINE AND 82'-08" 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 10" HATCH GAUGE HEIGHT 17'-07"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,489.48	0	3,714.57	0	3,933.34	0	4,151.82	0	4,369.51	0		0		0		0		0	
1/4	3,494.96	1/4	3,719.14	1/4	3,937.89	1/4	4,156.37	1/4	4,374.01	1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,500.45	1/2	3,723.70	1/2	3,942.44	1/2	4,160.93	1/2	4,378.52	1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,505.93	3/4	3,728.26	3/4	3,946.99	3/4	4,165.48	3/4	4,383.02	3/4		3/4	3/4	3/4	3/4		3/4	3/4	
1	3,511.42	1	3,732.83	1	3,951.54	1	4,170.03	1	4,387.53	1		1		1		1		1	
1/4	3,516.44	1/4	3,737.39	1/4	3,956.10	1/4	4,174.58	1/4	4,392.01	1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,521.46	1/2	3,741.96	1/2	3,960.65	1/2	4,179.13	1/2	4,396.49	1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,526.49	3/4	3,746.52	3/4	3,965.20	3/4	4,183.69	3/4	4,400.97	3/4		3/4	3/4	3/4	3/4		3/4	3/4	
2	3,531.51	2	3,751.09	2	3,969.75	2	4,188.24	2	4,405.45	2		2		2		2		2	
1/4	3,536.20	1/4	3,755.65	1/4	3,974.30	1/4	4,192.79	1/4	4,409.65	1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,540.88	1/2	3,760.22	1/2	3,978.85	1/2	4,197.34	1/2	4,413.86	1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,545.56	3/4	3,764.78	3/4	3,983.41	3/4	4,201.89	3/4	4,418.06	3/4		3/4	3/4	3/4	3/4		3/4	3/4	
3	3,550.25	3	3,769.34	3	3,987.96	3	4,206.44	3	4,422.26	3		3		3		3		3	
1/4	3,554.81	1/4	3,773.91	1/4	3,992.51	1/4	4,211.00	1/4	4,425.81	1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,559.38	1/2	3,778.47	1/2	3,997.06	1/2	4,215.55	1/2	4,429.37	1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,563.94	3/4	3,783.04	3/4	4,001.61	3/4	4,220.10	3/4	4,432.93	3/4		3/4	3/4	3/4	3/4		3/4	3/4	
4	3,568.51	4	3,787.60	4	4,006.17	4	4,224.65	4	4,436.49	4		4		4		4		4	
1/4	3,573.07	1/4	3,792.17	1/4	4,010.72	1/4	4,229.20	1/4	4,439.28	1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,577.64	1/2	3,796.73	1/2	4,015.27	1/2	4,233.76	1/2	4,442.08	1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,582.20	3/4	3,801.30	3/4	4,019.82	3/4	4,238.31	3/4	4,444.87	3/4		3/4	3/4	3/4	3/4		3/4	3/4	
5	3,586.76	5	3,805.86	5	4,024.37	5	4,242.86	5	4,447.67	5		5		5		5		5	
1/4	3,591.33	1/4	3,810.42	1/4	4,028.92	1/4	4,247.41	1/4	4,449.70	1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,595.89	1/2	3,814.98	1/2	4,033.48	1/2	4,251.96	1/2	4,451.74	1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,600.46	3/4	3,819.54	3/4	4,038.03	3/4	4,256.51	3/4	4,453.77	3/4		3/4	3/4	3/4	3/4		3/4	3/4	
6	3,605.02	6	3,824.09	6	4,042.58	6	4,261.07	6	4,455.81	6		6		6		6		6	
1/4	3,609.59	1/4	3,828.65	1/4	4,047.13	1/4	4,265.62	1/4	4,457.08	1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,614.15	1/2	3,833.20	1/2	4,051.68	1/2	4,270.17	1/2	4,458.36	1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,618.72	3/4	3,837.75	3/4	4,056.24	3/4	4,274.72	3/4	4,459.63	3/4		3/4	3/4	3/4	3/4		3/4	3/4	
7	3,623.28	7	3,842.30	7	4,060.79	7	4,279.27	7	4,460.90	7		7		7		7		7	
1/4	3,627.85	1/4	3,846.85	1/4	4,065.34	1/4	4,283.80	1/4		1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,632.41	1/2	3,851.40	1/2	4,069.89	1/2	4,288.33	1/2		1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,636.97	3/4	3,855.96	3/4	4,074.44	3/4	4,292.86	3/4		3/4		3/4	3/4	3/4	3/4		3/4	3/4	
8	3,641.54	8	3,860.51	8	4,078.99	8	4,297.39	8		8		8		8		8		8	
1/4	3,646.10	1/4	3,865.06	1/4	4,083.55	1/4	4,301.90	1/4		1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,650.67	1/2	3,869.61	1/2	4,088.10	1/2	4,306.41	1/2		1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,655.23	3/4	3,874.16	3/4	4,092.65	3/4	4,310.92	3/4		3/4		3/4	3/4	3/4	3/4		3/4	3/4	
9	3,659.80	9	3,878.72	9	4,097.20	9	4,315.42	9		9		9		9		9		9	
1/4	3,664.36	1/4	3,883.27	1/4	4,101.75	1/4	4,319.93	1/4		1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,668.93	1/2	3,887.82	1/2	4,106.31	1/2	4,324.44	1/2		1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,673.49	3/4	3,892.37	3/4	4,110.86	3/4	4,328.94	3/4		3/4		3/4	3/4	3/4	3/4		3/4	3/4	
10	3,678.05	10	3,896.92	10	4,115.41	10	4,333.45	10		10		10		10		10		10	
1/4	3,682.62	1/4	3,901.47	1/4	4,119.96	1/4	4,337.96	1/4		1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,687.18	1/2	3,906.03	1/2	4,124.51	1/2	4,342.46	1/2		1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,691.75	3/4	3,910.58	3/4	4,129.06	3/4	4,346.97	3/4		3/4		3/4	3/4	3/4	3/4		3/4	3/4	
11	3,696.31	11	3,915.13	11	4,133.62	11	4,351.48	11		11		11		11		11		11	
1/4	3,700.88	1/4	3,919.68	1/4	4,138.17	1/4	4,355.99	1/4		1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,705.44	1/2	3,924.23	1/2	4,142.72	1/2	4,360.49	1/2		1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,710.01	3/4	3,928.78	3/4	4,147.27	3/4	4,365.00	3/4		3/4		3/4	3/4	3/4	3/4		3/4	3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/11/2019 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 10" HATCH GAUGE HEIGHT 17'-07"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	2.22	0	312.36	0	669.16	0	1,025.65	0	1,382.26	0	1,739.07	0	2,095.88	0	2,452.66	0	2,809.01	0	3,165.32
1/4	4.08	1/4	319.80	1/4	676.59	1/4	1,033.06	1/4	1,389.70	1/4	1,746.50	1/4	2,103.31	1/4	2,460.09	1/4	2,816.43	1/4	3,172.75
1/2	5.94	1/2	327.23	1/2	684.02	1/2	1,040.48	1/2	1,397.13	1/2	1,753.94	1/2	2,110.75	1/2	2,467.51	1/2	2,823.86	1/2	3,180.17
3/4	7.80	3/4	334.66	3/4	691.46	3/4	1,047.90	3/4	1,404.56	3/4	1,761.37	3/4	2,118.18	3/4	2,474.94	3/4	2,831.28	3/4	3,187.59
1	9.66	1	342.09	1	698.89	1	1,055.32	1	1,412.00	1	1,768.81	1	2,125.61	1	2,482.36	1	2,838.70	1	3,195.02
1/4	13.37	1/4	349.53	1/4	706.32	1/4	1,062.74	1/4	1,419.43	1/4	1,776.24	1/4	2,133.05	1/4	2,489.79	1/4	2,846.13	1/4	3,202.43
1/2	17.09	1/2	356.96	1/2	713.75	1/2	1,070.16	1/2	1,426.86	1/2	1,783.67	1/2	2,140.48	1/2	2,497.21	1/2	2,853.55	1/2	3,209.84
3/4	20.81	3/4	364.39	3/4	721.19	3/4	1,077.58	3/4	1,434.30	3/4	1,791.11	3/4	2,147.91	3/4	2,504.64	3/4	2,860.97	3/4	3,217.24
2	24.52	2	371.83	2	728.62	2	1,085.00	2	1,441.73	2	1,798.54	2	2,155.35	2	2,512.06	2	2,868.40	2	3,224.65
1/4	30.10	1/4	379.26	1/4	736.05	1/4	1,092.42	1/4	1,449.16	1/4	1,805.97	1/4	2,162.78	1/4	2,519.48	1/4	2,875.82	1/4	3,232.05
1/2	35.67	1/2	386.69	1/2	743.49	1/2	1,099.85	1/2	1,456.60	1/2	1,813.41	1/2	2,170.21	1/2	2,526.91	1/2	2,883.24	1/2	3,239.44
3/4	41.24	3/4	394.13	3/4	750.92	3/4	1,107.27	3/4	1,464.03	3/4	1,820.84	3/4	2,177.65	3/4	2,534.33	3/4	2,890.67	3/4	3,246.84
3	46.82	3	401.56	3	758.35	3	1,114.69	3	1,471.47	3	1,828.27	3	2,185.08	3	2,541.76	3	2,898.09	3	3,254.23
1/4	53.77	1/4	408.99	1/4	765.79	1/4	1,122.12	1/4	1,478.90	1/4	1,835.71	1/4	2,192.51	1/4	2,549.18	1/4	2,905.51	1/4	3,261.63
1/2	60.72	1/2	416.43	1/2	773.22	1/2	1,129.55	1/2	1,486.33	1/2	1,843.14	1/2	2,199.95	1/2	2,556.61	1/2	2,912.94	1/2	3,269.02
3/4	67.67	3/4	423.86	3/4	780.65	3/4	1,136.97	3/4	1,493.77	3/4	1,850.57	3/4	2,207.38	3/4	2,564.03	3/4	2,920.36	3/4	3,276.42
4	74.62	4	431.29	4	788.09	4	1,144.40	4	1,501.20	4	1,858.01	4	2,214.82	4	2,571.46	4	2,927.78	4	3,283.81
1/4	82.03	1/4	438.73	1/4	795.52	1/4	1,151.83	1/4	1,508.63	1/4	1,865.44	1/4	2,222.25	1/4	2,578.88	1/4	2,935.20	1/4	3,291.21
1/2	89.44	1/2	446.16	1/2	802.95	1/2	1,159.26	1/2	1,516.07	1/2	1,872.87	1/2	2,229.68	1/2	2,586.30	1/2	2,942.63	1/2	3,298.60
3/4	96.85	3/4	453.59	3/4	810.39	3/4	1,166.69	3/4	1,523.50	3/4	1,880.31	3/4	2,237.12	3/4	2,593.73	3/4	2,950.05	3/4	3,306.00
5	104.26	5	461.03	5	817.82	5	1,174.13	5	1,530.93	5	1,887.74	5	2,244.55	5	2,601.15	5	2,957.47	5	3,313.39
1/4	111.69	1/4	468.46	1/4	825.25	1/4	1,181.56	1/4	1,538.37	1/4	1,895.17	1/4	2,251.98	1/4	2,608.58	1/4	2,964.90	1/4	3,320.79
1/2	119.11	1/2	475.89	1/2	832.69	1/2	1,188.99	1/2	1,545.80	1/2	1,902.61	1/2	2,259.42	1/2	2,616.00	1/2	2,972.32	1/2	3,328.18
3/4	126.54	3/4	483.33	3/4	840.12	3/4	1,196.43	3/4	1,553.23	3/4	1,910.04	3/4	2,266.85	3/4	2,623.43	3/4	2,979.74	3/4	3,335.58
6	133.97	6	490.76	6	847.55	6	1,203.86	6	1,560.67	6	1,917.48	6	2,274.28	6	2,630.85	6	2,987.17	6	3,342.97
1/4	141.40	1/4	498.19	1/4	854.98	1/4	1,211.29	1/4	1,568.10	1/4	1,924.91	1/4	2,281.72	1/4	2,638.27	1/4	2,994.59	1/4	3,350.36
1/2	148.83	1/2	505.63	1/2	862.41	1/2	1,218.73	1/2	1,575.53	1/2	1,932.34	1/2	2,289.15	1/2	2,645.70	1/2	3,002.01	1/2	3,357.76
3/4	156.27	3/4	513.06	3/4	869.83	3/4	1,226.16	3/4	1,582.97	3/4	1,939.78	3/4	2,296.58	3/4	2,653.12	3/4	3,009.44	3/4	3,365.15
7	163.70	7	520.49	7	877.26	7	1,233.59	7	1,590.40	7	1,947.21	7	2,304.02	7	2,660.55	7	3,016.86	7	3,372.54
1/4	171.13	1/4	527.92	1/4	884.68	1/4	1,241.03	1/4	1,597.83	1/4	1,954.64	1/4	2,311.45	1/4	2,667.97	1/4	3,024.28	1/4	3,379.93
1/2	178.56	1/2	535.36	1/2	892.10	1/2	1,248.46	1/2	1,605.27	1/2	1,962.08	1/2	2,318.88	1/2	2,675.39	1/2	3,031.71	1/2	3,387.32
3/4	186.00	3/4	542.79	3/4	899.52	3/4	1,255.89	3/4	1,612.70	3/4	1,969.51	3/4	2,326.32	3/4	2,682.82	3/4	3,039.13	3/4	3,394.70
8	193.43	8	550.22	8	906.94	8	1,263.33	8	1,620.14	8	1,976.94	8	2,333.75	8	2,690.24	8	3,046.55	8	3,402.09
1/4	200.86	1/4	557.66	1/4	914.36	1/4	1,270.76	1/4	1,627.57	1/4	1,984.38	1/4	2,341.18	1/4	2,697.66	1/4	3,053.98	1/4	3,409.36
1/2	208.30	1/2	565.09	1/2	921.78	1/2	1,278.19	1/2	1,635.00	1/2	1,991.81	1/2	2,348.62	1/2	2,705.09	1/2	3,061.40	1/2	3,416.62
3/4	215.73	3/4	572.52	3/4	929.20	3/4	1,285.63	3/4	1,642.44	3/4	1,999.24	3/4	2,356.05	3/4	2,712.51	3/4	3,068.82	3/4	3,423.89
9	223.16	9	579.96	9	936.62	9	1,293.06	9	1,649.87	9	2,006.68	9	2,363.49	9	2,719.93	9	3,076.25	9	3,431.16
1/4	230.60	1/4	587.39	1/4	944.03	1/4	1,300.49	1/4	1,657.30	1/4	2,014.11	1/4	2,370.92	1/4	2,727.36	1/4	3,083.67	1/4	3,438.08
1/2	238.03	1/2	594.82	1/2	951.45	1/2	1,307.93	1/2	1,664.74	1/2	2,021.54	1/2	2,378.35	1/2	2,734.78	1/2	3,091.09	1/2	3,444.99
3/4	245.46	3/4	602.26	3/4	958.87	3/4	1,315.36	3/4	1,672.17	3/4	2,028.98	3/4	2,385.79	3/4	2,742.20	3/4	3,098.52	3/4	3,451.91
10	252.90	10	609.69	10	966.29	10	1,322.80	10	1,679.60	10	2,036.41	10	2,393.22	10	2,749.62	10	3,105.94	10	3,458.83
1/4	260.33	1/4	617.12	1/4	973.71	1/4	1,330.23	1/4	1,687.04	1/4	2,043.84	1/4	2,400.65	1/4	2,757.05	1/4	3,113.36	1/4	3,465.27
1/2	267.76	1/2	624.56	1/2	981.13	1/2	1,337.66	1/2	1,694.47	1/2	2,051.28	1/2	2,408.09	1/2	2,764.47	1/2	3,120.78	1/2	3,471.70
3/4	275.20	3/4	631.99	3/4	988.55	3/4	1,345.10	3/4	1,701.90	3/4	2,058.71	3/4	2,415.52	3/4	2,771.89	3/4	3,128.21	3/4	3,478.14
11	282.63	11	639.42	11	995.97	11	1,352.53	11	1,709.34	11	2,066.15	11	2,422.95	11	2,779.32	11	3,135.63	11	3,484.58
1/4	290.06	1/4	646.86	1/4	1,003.39	1/4	1,359.96	1/4	1,716.77	1/4	2,073.58	1/4	2,430.38	1/4	2,786.74	1/4	3,143.05	1/4	3,490.54
1/2	297.50	1/2	654.29	1/2	1,010.81	1/2	1,367.40	1/2	1,724.20	1/2	2,081.01	1/2	2,437.81	1/2	2,794.16	1/2	3,150.48	1/2	3,496.50
3/4	304.93	3/4	661.72	3/4	1,018.23	3/4	1,374.83	3/4	1,731.64	3/4	2,088.45	3/4	2,445.24	3/4	2,801.59	3/4	3,157.90	3/4	3,502.46

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME.
 GAUGE POINT: (10" HATCH) LOCATED 3'-00" OFF CENTERLINE AND 82'-08" 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

10" HATCH

GAUGE HEIGHT 17'-07"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,508.42	0	3,733.47	0	3,952.19	0	4,170.64	0	4,388.28	0		0		0		0		0	
1/4	3,513.91	1/4	3,738.03	1/4	3,956.75	1/4	4,175.19	1/4	4,392.78	1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,519.39	1/2	3,742.60	1/2	3,961.30	1/2	4,179.74	1/2	4,397.28	1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,524.87	3/4	3,747.16	3/4	3,965.85	3/4	4,184.30	3/4	4,401.79	3/4		3/4	3/4	3/4	3/4		3/4	3/4	
1	3,530.35	1	3,751.73	1	3,970.40	1	4,188.85	1	4,406.29	1		1		1		1		1	
1/4	3,535.38	1/4	3,756.29	1/4	3,974.95	1/4	4,193.40	1/4	4,410.77	1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,540.40	1/2	3,760.85	1/2	3,979.50	1/2	4,197.95	1/2	4,415.25	1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,545.42	3/4	3,765.42	3/4	3,984.05	3/4	4,202.50	3/4	4,419.73	3/4		3/4	3/4	3/4	3/4		3/4	3/4	
2	3,550.45	2	3,769.98	2	3,988.60	2	4,207.05	2	4,424.21	2		2		2		2		2	
1/4	3,555.13	1/4	3,774.54	1/4	3,993.15	1/4	4,211.60	1/4	4,428.41	1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,559.81	1/2	3,779.11	1/2	3,997.70	1/2	4,216.15	1/2	4,432.61	1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,564.49	3/4	3,783.67	3/4	4,002.26	3/4	4,220.70	3/4	4,436.81	3/4		3/4	3/4	3/4	3/4		3/4	3/4	
3	3,569.18	3	3,788.24	3	4,006.81	3	4,225.25	3	4,441.01	3		3		3		3		3	
1/4	3,573.74	1/4	3,792.80	1/4	4,011.36	1/4	4,229.81	1/4	4,444.57	1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,578.31	1/2	3,797.36	1/2	4,015.91	1/2	4,234.36	1/2	4,448.13	1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,582.87	3/4	3,801.93	3/4	4,020.46	3/4	4,238.91	3/4	4,451.68	3/4		3/4	3/4	3/4	3/4		3/4	3/4	
4	3,587.43	4	3,806.49	4	4,025.01	4	4,243.46	4	4,455.24	4		4		4		4		4	
1/4	3,592.00	1/4	3,811.05	1/4	4,029.56	1/4	4,248.01	1/4	4,458.03	1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,596.56	1/2	3,815.62	1/2	4,034.11	1/2	4,252.56	1/2	4,460.83	1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,601.12	3/4	3,820.18	3/4	4,038.66	3/4	4,257.11	3/4	4,463.62	3/4		3/4	3/4	3/4	3/4		3/4	3/4	
5	3,605.69	5	3,824.75	5	4,043.21	5	4,261.66	5	4,466.42	5		5		5		5		5	
1/4	3,610.25	1/4	3,829.30	1/4	4,047.77	1/4	4,266.21	1/4	4,468.45	1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,614.81	1/2	3,833.86	1/2	4,052.32	1/2	4,270.76	1/2	4,470.49	1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,619.38	3/4	3,838.41	3/4	4,056.87	3/4	4,275.32	3/4	4,472.52	3/4		3/4	3/4	3/4	3/4		3/4	3/4	
6	3,623.94	6	3,842.97	6	4,061.42	6	4,279.87	6	4,474.56	6		6		6		6		6	
1/4	3,628.51	1/4	3,847.52	1/4	4,065.97	1/4	4,284.42	1/4	4,475.83	1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,633.07	1/2	3,852.07	1/2	4,070.52	1/2	4,288.97	1/2	4,477.11	1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,637.63	3/4	3,856.62	3/4	4,075.07	3/4	4,293.52	3/4	4,478.38	3/4		3/4	3/4	3/4	3/4		3/4	3/4	
7	3,642.20	7	3,861.17	7	4,079.62	7	4,298.07	7	4,479.65	7		7		7		7		7	
1/4	3,646.76	1/4	3,865.73	1/4	4,084.17	1/4	4,302.60	1/4		1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,651.32	1/2	3,870.28	1/2	4,088.72	1/2	4,307.13	1/2		1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,655.89	3/4	3,874.83	3/4	4,093.28	3/4	4,311.65	3/4		3/4		3/4	3/4	3/4	3/4		3/4	3/4	
8	3,660.45	8	3,879.38	8	4,097.83	8	4,316.18	8		8		8		8		8		8	
1/4	3,665.02	1/4	3,883.93	1/4	4,102.38	1/4	4,320.69	1/4		1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,669.58	1/2	3,888.48	1/2	4,106.93	1/2	4,325.19	1/2		1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,674.14	3/4	3,893.03	3/4	4,111.48	3/4	4,329.70	3/4		3/4		3/4	3/4	3/4	3/4		3/4	3/4	
9	3,678.71	9	3,897.58	9	4,116.03	9	4,334.21	9		9		9		9		9		9	
1/4	3,683.27	1/4	3,902.13	1/4	4,120.58	1/4	4,338.71	1/4		1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,687.83	1/2	3,906.68	1/2	4,125.13	1/2	4,343.22	1/2		1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,692.40	3/4	3,911.24	3/4	4,129.68	3/4	4,347.72	3/4		3/4		3/4	3/4	3/4	3/4		3/4	3/4	
10	3,696.96	10	3,915.79	10	4,134.23	10	4,352.23	10		10		10		10		10		10	
1/4	3,701.53	1/4	3,920.34	1/4	4,138.79	1/4	4,356.74	1/4		1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,706.09	1/2	3,924.89	1/2	4,143.34	1/2	4,361.24	1/2		1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,710.65	3/4	3,929.44	3/4	4,147.89	3/4	4,365.75	3/4		3/4		3/4	3/4	3/4	3/4		3/4	3/4	
11	3,715.22	11	3,933.99	11	4,152.44	11	4,370.26	11		11		11		11		11		11	
1/4	3,719.78	1/4	3,938.54	1/4	4,156.99	1/4	4,374.76	1/4		1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,724.34	1/2	3,943.09	1/2	4,161.54	1/2	4,379.27	1/2		1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,728.91	3/4	3,947.64	3/4	4,166.09	3/4	4,383.77	3/4		3/4		3/4	3/4	3/4	3/4		3/4	3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/11/2019 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"

INNAGE (HERMETIC)

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	- 00-0/8	00-0/8	- 00-0/8	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 GAUGE HEIGHT 15'-09"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	15.27	0	303.40	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

GAUGE HEIGHT 15'-09"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,512.34	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		1/4	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		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		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		1/4	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		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		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		1/4	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		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		3/4	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		1/4	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		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		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		1/4	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		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		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		1/4	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		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		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		1/4	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		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		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		1/4	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		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		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		1/4	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		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		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		1/4	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		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		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		1/4	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		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		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		1/4	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		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		3/4	3/4	

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

CANCELS AND SUPERCEDES
 ALL PRIOR TO 01/2019

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "E2MS 313"

1 STBD

INNAGE TABLE

HERMETIC

GAUGE HEIGHT 15'-08 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	15.27	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		1/4	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		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		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		1/4	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		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		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		1/4	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		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		3/4	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		1/4	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		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		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		1/4	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		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		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		1/4	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		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		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		1/4	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		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		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		1/4	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		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		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		1/4	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		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		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		1/4	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		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		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		1/4	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		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		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		1/4	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		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		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

GAUGE HEIGHT 15'-09 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	15.30	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	1,232.02	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

GAUGE HEIGHT 15'-09 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	3,570.79	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		1/4	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		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		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		1/4	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		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		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		1/4	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		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		3/4	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		1/4	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		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		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		1/4	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		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		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		1/4	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		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		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		1/4	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		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		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		1/4	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		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		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		1/4	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		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		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		1/4	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		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		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		1/4	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		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		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		1/4	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		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		3/4	3/4	3/4

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

CANCELS AND SUPERCEDES
 ALL PRIOR TO 01/2019

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "E2MS 313"

2 STBD
INNAGE TABLE

HERMETIC
GAUGE HEIGHT 15'-09 1/2"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	15.31	0	358.83	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

GAUGE HEIGHT 15'-09 1/2"

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	3,586.08	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		1/4	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		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		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		1/4	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		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		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		1/4	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		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		3/4	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		1/4	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		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		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		1/4	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		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		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		1/4	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		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		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		1/4	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		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		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		1/4	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		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		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		1/4	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		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		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		1/4	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		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		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		1/4	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		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		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		1/4	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		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		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 GAUGE HEIGHT 15'-08 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,521.90	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	1/4	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	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	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	1/4	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	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	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	1/4	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	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	3/4	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	1/4	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	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	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	1/4	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	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	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	1/4	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	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	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	1/4	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	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	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	1/4	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	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	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	1/4	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	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	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	1/4	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	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	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	1/4	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	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	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	1/4	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	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	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

GAUGE HEIGHT 15'-08 1/2"

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	3,540.84	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		1/4	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		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		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		1/4	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		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		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		1/4	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		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		3/4	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		1/4	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		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		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		1/4	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		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		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		1/4	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		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		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		1/4	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		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		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		1/4	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		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		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		1/4	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		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		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		1/4	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		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		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		1/4	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		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		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		1/4	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		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		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	

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "E2MS 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	

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 07/2018

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "E2MS 313"

ULLAGE (10" HATCH)

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	- 02-0/8	02-0/8	- 04-1/8	04-1/8	- 06-1/8	06-1/8	- 08-1/8	08-1/8	- 10-1/8	10-1/8	- 12-2/8	12-2/8
1 STBD	- 02-0/8	02-0/8	- 04-0/8	04-0/8	- 06-1/8	06-1/8	- 08-1/8	08-1/8	- 10-1/8	10-1/8	- 12-1/8	12-1/8
2 PORT	- 02-0/8	02-0/8	- 04-1/8	04-1/8	- 06-1/8	06-1/8	- 08-1/8	08-1/8	- 10-1/8	10-1/8	- 12-1/4	12-1/4
2 STBD	- 02-0/8	02-0/8	- 04-1/8	04-1/8	- 06-1/8	06-1/8	- 08-1/8	08-1/8	- 10-1/4	10-1/4	- 12-1/4	12-1/4
3 PORT	02-0/8	- 02-0/8	04-0/8	- 04-0/8	06-1/8	- 06-1/8	08-1/8	- 08-1/8	10-1/8	- 10-1/8	12-1/8	- 12-1/8
3 STBD	02-0/8	- 02-0/8	04-0/8	- 04-0/8	06-1/8	- 06-1/8	08-1/8	- 08-1/8	10-1/8	- 10-1/8	12-1/8	- 12-1/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 235'-09"

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

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

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	5,041.61	0	4,739.79	0	4,383.12	0	4,026.44	0	3,668.83	0	3,311.12	0	2,953.40
1/4		1/4		1/4		1/4	5,039.53	1/4	4,732.36	1/4	4,375.69	1/4	4,019.01	1/4	3,661.38	1/4	3,303.66	1/4	2,945.95
1/2		1/2		1/2		1/2	5,037.45	1/2	4,724.93	1/2	4,368.25	1/2	4,011.58	1/2	3,653.93	1/2	3,296.21	1/2	2,938.50
3/4		3/4		3/4		3/4	5,035.38	3/4	4,717.50	3/4	4,360.82	3/4	4,004.15	3/4	3,646.47	3/4	3,288.76	3/4	2,931.04
1		1		1		1	5,032.05	1	4,710.07	1	4,353.39	1	3,996.71	1	3,639.02	1	3,281.31	1	2,923.59
1/4		1/4		1/4		1/4	5,028.73	1/4	4,702.64	1/4	4,345.96	1/4	3,989.26	1/4	3,631.57	1/4	3,273.85	1/4	2,916.14
1/2		1/2		1/2		1/2	5,025.41	1/2	4,695.21	1/2	4,338.53	1/2	3,981.82	1/2	3,624.12	1/2	3,266.40	1/2	2,908.69
3/4		3/4		3/4		3/4	5,022.09	3/4	4,687.77	3/4	4,331.10	3/4	3,974.38	3/4	3,616.66	3/4	3,258.95	3/4	2,901.23
2		2		2		2	5,017.53	2	4,680.34	2	4,323.67	2	3,966.93	2	3,609.21	2	3,251.50	2	2,893.78
1/4		1/4		1/4		1/4	5,012.96	1/4	4,672.91	1/4	4,316.24	1/4	3,959.47	1/4	3,601.76	1/4	3,244.04	1/4	2,886.33
1/2		1/2		1/2		1/2	5,008.40	1/2	4,665.48	1/2	4,308.81	1/2	3,952.02	1/2	3,594.31	1/2	3,236.59	1/2	2,878.88
3/4		3/4		3/4		3/4	5,003.84	3/4	4,658.05	3/4	4,301.38	3/4	3,944.57	3/4	3,586.85	3/4	3,229.14	3/4	2,871.42
3		3		3		3	4,998.03	3	4,650.62	3	4,293.95	3	3,937.12	3	3,579.40	3	3,221.69	3	2,863.97
1/4		1/4		1/4		1/4	4,992.22	1/4	4,643.19	1/4	4,286.52	1/4	3,929.66	1/4	3,571.95	1/4	3,214.23	1/4	2,856.52
1/2		1/2		1/2		1/2	4,986.42	1/2	4,635.76	1/2	4,279.09	1/2	3,922.21	1/2	3,564.50	1/2	3,206.78	1/2	2,849.07
3/4		3/4		3/4		3/4	4,980.61	3/4	4,628.33	3/4	4,271.66	3/4	3,914.76	3/4	3,557.04	3/4	3,199.33	3/4	2,841.61
4		4		4		4	4,973.75	4	4,620.90	4	4,264.22	4	3,907.31	4	3,549.59	4	3,191.88	4	2,834.16
1/4		1/4		1/4		1/4	4,966.90	1/4	4,613.47	1/4	4,256.79	1/4	3,899.85	1/4	3,542.14	1/4	3,184.42	1/4	2,826.71
1/2		1/2		1/2		1/2	4,960.04	1/2	4,606.04	1/2	4,249.36	1/2	3,892.40	1/2	3,534.69	1/2	3,176.97	1/2	2,819.26
3/4		3/4		3/4		3/4	4,953.18	3/4	4,598.61	3/4	4,241.93	3/4	3,884.95	3/4	3,527.23	3/4	3,169.52	3/4	2,811.80
5		5		5		5	4,945.86	5	4,591.18	5	4,234.50	5	3,877.50	5	3,519.78	5	3,162.07	5	2,804.35
1/4		1/4		1/4		1/4	4,938.55	1/4	4,583.75	1/4	4,227.07	1/4	3,870.05	1/4	3,512.33	1/4	3,154.61	1/4	2,796.90
1/2		1/2		1/2		1/2	4,931.23	1/2	4,576.31	1/2	4,219.64	1/2	3,862.59	1/2	3,504.88	1/2	3,147.16	1/2	2,789.45
3/4		3/4		3/4		3/4	4,923.91	3/4	4,568.88	3/4	4,212.21	3/4	3,855.14	3/4	3,497.43	3/4	3,139.71	3/4	2,781.99
6		6		6		6	4,916.56	6	4,561.45	6	4,204.78	6	3,847.69	6	3,489.97	6	3,132.26	6	2,774.54
1/4		1/4		1/4		1/4	4,909.21	1/4	4,554.02	1/4	4,197.35	1/4	3,840.24	1/4	3,482.52	1/4	3,124.81	1/4	2,767.09
1/2		1/2		1/2		1/2	4,901.86	1/2	4,546.59	1/2	4,189.92	1/2	3,832.78	1/2	3,475.07	1/2	3,117.35	1/2	2,759.64
3/4		3/4		3/4		3/4	4,894.51	3/4	4,539.16	3/4	4,182.49	3/4	3,825.33	3/4	3,467.62	3/4	3,109.90	3/4	2,752.19
7		7		7		7	4,887.16	7	4,531.73	7	4,175.06	7	3,817.88	7	3,460.16	7	3,102.45	7	2,744.73
1/4		1/4		1/4		1/4	4,879.80	1/4	4,524.30	1/4	4,167.63	1/4	3,810.43	1/4	3,452.71	1/4	3,095.00	1/4	2,737.28
1/2		1/2		1/2		1/2	4,872.44	1/2	4,516.87	1/2	4,160.20	1/2	3,802.97	1/2	3,445.26	1/2	3,087.54	1/2	2,729.83
3/4		3/4		3/4		3/4	4,865.09	3/4	4,509.44	3/4	4,152.76	3/4	3,795.52	3/4	3,437.81	3/4	3,080.09	3/4	2,722.38
8		8		8		8	4,857.73	8	4,502.01	8	4,145.33	8	3,788.07	8	3,430.35	8	3,072.64	8	2,714.92
1/4		1/4		1/4		1/4	4,850.37	1/4	4,494.58	1/4	4,137.90	1/4	3,780.62	1/4	3,422.90	1/4	3,065.19	1/4	2,707.47
1/2		1/2		1/2		1/2	4,843.01	1/2	4,487.15	1/2	4,130.47	1/2	3,773.16	1/2	3,415.45	1/2	3,057.73	1/2	2,700.02
3/4		3/4		3/4		3/4	4,835.65	3/4	4,479.72	3/4	4,123.04	3/4	3,765.71	3/4	3,408.00	3/4	3,050.28	3/4	2,692.57
9		9		9		9	4,828.30	9	4,472.28	9	4,115.61	9	3,758.26	9	3,400.54	9	3,042.83	9	2,685.11
1/4		1/4		1/4		1/4	4,820.94	1/4	4,464.85	1/4	4,108.18	1/4	3,750.81	1/4	3,393.09	1/4	3,035.38	1/4	2,677.66
1/2		1/2		1/2		1/2	4,813.58	1/2	4,457.42	1/2	4,100.75	1/2	3,743.35	1/2	3,385.64	1/2	3,027.92	1/2	2,670.21
3/4		3/4		3/4		3/4	4,806.23	3/4	4,449.99	3/4	4,093.32	3/4	3,735.90	3/4	3,378.19	3/4	3,020.47	3/4	2,662.76
10		10		10		10	4,798.87	10	4,442.56	10	4,085.89	10	3,728.45	10	3,370.73	10	3,013.02	10	2,655.30
1/4		1/4		1/4		1/4	4,791.51	1/4	4,435.13	1/4	4,078.46	1/4	3,721.00	1/4	3,363.28	1/4	3,005.57	1/4	2,647.85
1/2		1/2		1/2		1/2	4,784.15	1/2	4,427.70	1/2	4,071.03	1/2	3,713.54	1/2	3,355.83	1/2	2,998.11	1/2	2,640.40
3/4		3/4		3/4		3/4	4,776.80	3/4	4,420.27	3/4	4,063.60	3/4	3,706.09	3/4	3,348.38	3/4	2,990.66	3/4	2,632.95
11		11		11		11	4,769.40	11	4,412.84	11	4,056.17	11	3,698.64	11	3,340.92	11	2,983.21	11	2,625.49
1/4		1/4		1/4		1/4	4,762.01	1/4	4,405.41	1/4	4,048.73	1/4	3,691.19	1/4	3,333.47	1/4	2,975.76	1/4	2,618.04
1/2		1/2		1/2		1/2	4,754.61	1/2	4,397.98	1/2	4,041.30	1/2	3,683.74	1/2	3,326.02	1/2	2,968.30	1/2	2,610.59
3/4		3/4		3/4	5,043.69	3/4	4,747.22	3/4	4,390.55	3/4	4,033.87	3/4	3,676.28	3/4	3,318.57	3/4	2,960.85	3/4	2,603.14

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME.

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

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "E2MS 313"

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

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,595.68	0	2,237.87	0	1,880.05	0	1,522.23	0	1,164.42	0	808.87	0	451.99	0	126.71	0			
1/4	2,588.23	1/4	2,230.41	1/4	1,872.60	1/4	1,514.78	1/4	1,156.96	1/4	801.47	1/4	444.71	1/4	120.48	1/4			
1/2	2,580.77	1/2	2,222.96	1/2	1,865.14	1/2	1,507.32	1/2	1,149.51	1/2	794.08	1/2	437.43	1/2	114.25	1/2			
3/4	2,573.32	3/4	2,215.50	3/4	1,857.69	3/4	1,499.87	3/4	1,142.05	3/4	786.68	3/4	430.15	3/4	108.02	3/4			
1	2,565.86	1	2,208.05	1	1,850.23	1	1,492.42	1	1,134.62	1	779.25	1	422.96	1	101.89	1			
1/4	2,558.41	1/4	2,200.59	1/4	1,842.78	1/4	1,484.96	1/4	1,127.18	1/4	771.82	1/4	415.76	1/4	95.75	1/4			
1/2	2,550.95	1/2	2,193.14	1/2	1,835.32	1/2	1,477.51	1/2	1,119.74	1/2	764.39	1/2	408.57	1/2	89.61	1/2			
3/4	2,543.50	3/4	2,185.68	3/4	1,827.87	3/4	1,470.05	3/4	1,112.30	3/4	756.96	3/4	401.38	3/4	83.48	3/4			
2	2,536.05	2	2,178.23	2	1,820.41	2	1,462.60	2	1,104.88	2	749.50	2	394.27	2	77.45	2			
1/4	2,528.59	1/4	2,170.78	1/4	1,812.96	1/4	1,455.14	1/4	1,097.45	1/4	742.05	1/4	387.17	1/4	71.41	1/4			
1/2	2,521.14	1/2	2,163.32	1/2	1,805.50	1/2	1,447.69	1/2	1,090.03	1/2	734.60	1/2	380.07	1/2	65.38	1/2			
3/4	2,513.68	3/4	2,155.87	3/4	1,798.05	3/4	1,440.23	3/4	1,082.61	3/4	727.14	3/4	372.96	3/4	59.35	3/4			
3	2,506.23	3	2,148.41	3	1,790.60	3	1,432.78	3	1,075.19	3	719.69	3	365.94	3	53.87	3			
1/4	2,498.77	1/4	2,140.96	1/4	1,783.14	1/4	1,425.33	1/4	1,067.78	1/4	712.23	1/4	358.93	1/4	48.38	1/4			
1/2	2,491.32	1/2	2,133.50	1/2	1,775.69	1/2	1,417.87	1/2	1,060.37	1/2	704.78	1/2	351.91	1/2	42.90	1/2			
3/4	2,483.86	3/4	2,126.05	3/4	1,768.23	3/4	1,410.42	3/4	1,052.95	3/4	697.32	3/4	344.89	3/4	37.42	3/4			
4	2,476.41	4	2,118.59	4	1,760.78	4	1,402.96	4	1,045.55	4	689.87	4	337.96	4	33.40	4			
1/4	2,468.96	1/4	2,111.14	1/4	1,753.32	1/4	1,395.51	1/4	1,038.15	1/4	682.42	1/4	331.03	1/4	29.39	1/4			
1/2	2,461.50	1/2	2,103.68	1/2	1,745.87	1/2	1,388.05	1/2	1,030.75	1/2	674.96	1/2	324.10	1/2	25.37	1/2			
3/4	2,454.05	3/4	2,096.23	3/4	1,738.41	3/4	1,380.60	3/4	1,023.35	3/4	667.51	3/4	317.17	3/4	21.36	3/4			
5	2,446.59	5	2,088.78	5	1,730.96	5	1,373.14	5	1,015.96	5	660.05	5	310.33	5	18.44	5			
1/4	2,439.14	1/4	2,081.32	1/4	1,723.51	1/4	1,365.69	1/4	1,008.56	1/4	652.60	1/4	303.49	1/4	15.52	1/4			
1/2	2,431.68	1/2	2,073.87	1/2	1,716.05	1/2	1,358.23	1/2	1,001.16	1/2	645.14	1/2	296.65	1/2	12.60	1/2			
3/4	2,424.23	3/4	2,066.41	3/4	1,708.60	3/4	1,350.78	3/4	993.77	3/4	637.69	3/4	289.81	3/4	9.68	3/4			
6	2,416.77	6	2,058.96	6	1,701.14	6	1,343.33	6	986.37	6	630.24	6	283.05	6	7.82	6			
1/4	2,409.32	1/4	2,051.50	1/4	1,693.69	1/4	1,335.87	1/4	978.98	1/4	622.78	1/4	276.30	1/4	5.96	1/4			
1/2	2,401.86	1/2	2,044.05	1/2	1,686.23	1/2	1,328.42	1/2	971.58	1/2	615.33	1/2	269.54	1/2	4.09	1/2			
3/4	2,394.41	3/4	2,036.59	3/4	1,678.78	3/4	1,320.96	3/4	964.19	3/4	607.87	3/4	262.79	3/4	2.23	3/4			
7	2,386.96	7	2,029.14	7	1,671.32	7	1,313.51	7	956.79	7	600.42	7	256.12	7		7			
1/4	2,379.50	1/4	2,021.69	1/4	1,663.87	1/4	1,306.05	1/4	949.40	1/4	592.97	1/4	249.45	1/4		1/4			
1/2	2,372.05	1/2	2,014.23	1/2	1,656.41	1/2	1,298.60	1/2	942.00	1/2	585.52	1/2	242.78	1/2		1/2			
3/4	2,364.59	3/4	2,006.78	3/4	1,648.96	3/4	1,291.14	3/4	934.60	3/4	578.07	3/4	236.12	3/4		3/4			
8	2,357.14	8	1,999.32	8	1,641.51	8	1,283.69	8	927.21	8	570.62	8	229.54	8		8			
1/4	2,349.68	1/4	1,991.87	1/4	1,634.05	1/4	1,276.24	1/4	919.81	1/4	563.17	1/4	222.96	1/4		1/4			
1/2	2,342.23	1/2	1,984.41	1/2	1,626.60	1/2	1,268.78	1/2	912.42	1/2	555.72	1/2	216.38	1/2		1/2			
3/4	2,334.77	3/4	1,976.96	3/4	1,619.14	3/4	1,261.33	3/4	905.02	3/4	548.27	3/4	209.80	3/4		3/4			
9	2,327.32	9	1,969.50	9	1,611.69	9	1,253.87	9	897.63	9	540.82	9	203.31	9		9			
1/4	2,319.87	1/4	1,962.05	1/4	1,604.23	1/4	1,246.42	1/4	890.23	1/4	533.37	1/4	196.81	1/4		1/4			
1/2	2,312.41	1/2	1,954.59	1/2	1,596.78	1/2	1,238.96	1/2	882.84	1/2	525.91	1/2	190.32	1/2		1/2			
3/4	2,304.96	3/4	1,947.14	3/4	1,589.32	3/4	1,231.51	3/4	875.44	3/4	518.46	3/4	183.83	3/4		3/4			
10	2,297.50	10	1,939.69	10	1,581.87	10	1,224.05	10	868.04	10	511.03	10	177.42	10		10			
1/4	2,290.05	1/4	1,932.23	1/4	1,574.42	1/4	1,216.60	1/4	860.65	1/4	503.60	1/4	171.02	1/4		1/4			
1/2	2,282.59	1/2	1,924.78	1/2	1,566.96	1/2	1,209.14	1/2	853.25	1/2	496.17	1/2	164.61	1/2		1/2			
3/4	2,275.14	3/4	1,917.32	3/4	1,559.51	3/4	1,201.69	3/4	845.86	3/4	488.73	3/4	158.21	3/4		3/4			
11	2,267.68	11	1,909.87	11	1,552.05	11	1,194.24	11	838.46	11	481.37	11	151.89	11		11			
1/4	2,260.23	1/4	1,902.41	1/4	1,544.60	1/4	1,186.78	1/4	831.07	1/4	474.00	1/4	145.57	1/4		1/4			
1/2	2,252.77	1/2	1,894.96	1/2	1,537.14	1/2	1,179.33	1/2	823.67	1/2	466.63	1/2	139.26	1/2		1/2			
3/4	2,245.32	3/4	1,887.50	3/4	1,529.69	3/4	1,171.87	3/4	816.27	3/4	459.27	3/4	132.94	3/4		3/4			

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

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2019

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "E2MS 313"

1 STBD ULLAGE TABLE

10" HATCH GAUGE HEIGHT 17'-07"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	5,043.03	0	4,746.73	0	4,390.25	0	4,033.76	0	3,676.37	0	3,318.85	0	2,961.32
1/4		1/4		1/4		1/4	5,040.95	1/4	4,739.30	1/4	4,382.82	1/4	4,026.34	1/4	3,668.92	1/4	3,311.40	1/4	2,953.88
1/2		1/2		1/2		1/2	5,038.88	1/2	4,731.87	1/2	4,375.39	1/2	4,018.91	1/2	3,661.47	1/2	3,303.95	1/2	2,946.43
3/4		3/4		3/4		3/4	5,036.80	3/4	4,724.45	3/4	4,367.97	3/4	4,011.48	3/4	3,654.02	3/4	3,296.50	3/4	2,938.98
1		1		1		1	5,034.72	1	4,717.02	1	4,360.54	1	4,004.06	1	3,646.58	1	3,289.05	1	2,931.53
1/4		1/4		1/4		1/4	5,031.40	1/4	4,709.59	1/4	4,353.11	1/4	3,996.62	1/4	3,639.13	1/4	3,281.60	1/4	2,924.08
1/2		1/2		1/2		1/2	5,028.08	1/2	4,702.17	1/2	4,345.69	1/2	3,989.18	1/2	3,631.68	1/2	3,274.16	1/2	2,916.63
3/4		3/4		3/4		3/4	5,024.76	3/4	4,694.74	3/4	4,338.26	3/4	3,981.74	3/4	3,624.23	3/4	3,266.71	3/4	2,909.18
2		2		2		2	5,021.44	2	4,687.31	2	4,330.83	2	3,974.31	2	3,616.78	2	3,259.26	2	2,901.74
1/4		1/4		1/4		1/4	5,016.88	1/4	4,679.89	1/4	4,323.41	1/4	3,966.86	1/4	3,609.33	1/4	3,251.81	1/4	2,894.29
1/2		1/2		1/2		1/2	5,012.32	1/2	4,672.46	1/2	4,315.98	1/2	3,959.41	1/2	3,601.89	1/2	3,244.36	1/2	2,886.84
3/4		3/4		3/4		3/4	5,007.76	3/4	4,665.03	3/4	4,308.55	3/4	3,951.96	3/4	3,594.44	3/4	3,236.91	3/4	2,879.39
3		3		3		3	5,003.20	3	4,657.61	3	4,301.13	3	3,944.51	3	3,586.99	3	3,229.47	3	2,871.94
1/4		1/4		1/4		1/4	4,997.40	1/4	4,650.18	1/4	4,293.70	1/4	3,937.06	1/4	3,579.54	1/4	3,222.02	1/4	2,864.49
1/2		1/2		1/2		1/2	4,991.59	1/2	4,642.75	1/2	4,286.27	1/2	3,929.62	1/2	3,572.09	1/2	3,214.57	1/2	2,857.05
3/4		3/4		3/4		3/4	4,985.79	3/4	4,635.33	3/4	4,278.85	3/4	3,922.17	3/4	3,564.64	3/4	3,207.12	3/4	2,849.60
4		4		4		4	4,979.99	4	4,627.90	4	4,271.42	4	3,914.72	4	3,557.20	4	3,199.67	4	2,842.15
1/4		1/4		1/4		1/4	4,973.13	1/4	4,620.47	1/4	4,263.99	1/4	3,907.27	1/4	3,549.75	1/4	3,192.22	1/4	2,834.70
1/2		1/2		1/2		1/2	4,966.28	1/2	4,613.05	1/2	4,256.57	1/2	3,899.82	1/2	3,542.30	1/2	3,184.78	1/2	2,827.25
3/4		3/4		3/4		3/4	4,959.43	3/4	4,605.62	3/4	4,249.14	3/4	3,892.37	3/4	3,534.85	3/4	3,177.33	3/4	2,819.80
5		5		5		5	4,952.57	5	4,598.19	5	4,241.71	5	3,884.93	5	3,527.40	5	3,169.88	5	2,812.36
1/4		1/4		1/4		1/4	4,945.26	1/4	4,590.77	1/4	4,234.28	1/4	3,877.48	1/4	3,519.95	1/4	3,162.43	1/4	2,804.91
1/2		1/2		1/2		1/2	4,937.95	1/2	4,583.34	1/2	4,226.86	1/2	3,870.03	1/2	3,512.51	1/2	3,154.98	1/2	2,797.46
3/4		3/4		3/4		3/4	4,930.63	3/4	4,575.91	3/4	4,219.43	3/4	3,862.58	3/4	3,505.06	3/4	3,147.53	3/4	2,790.01
6		6		6		6	4,923.32	6	4,568.49	6	4,212.00	6	3,855.13	6	3,497.61	6	3,140.09	6	2,782.56
1/4		1/4		1/4		1/4	4,915.98	1/4	4,561.06	1/4	4,204.58	1/4	3,847.68	1/4	3,490.16	1/4	3,132.64	1/4	2,775.11
1/2		1/2		1/2		1/2	4,908.63	1/2	4,553.63	1/2	4,197.15	1/2	3,840.23	1/2	3,482.71	1/2	3,125.19	1/2	2,767.67
3/4		3/4		3/4		3/4	4,901.28	3/4	4,546.21	3/4	4,189.72	3/4	3,832.79	3/4	3,475.26	3/4	3,117.74	3/4	2,760.22
7		7		7		7	4,893.94	7	4,538.78	7	4,182.30	7	3,825.34	7	3,467.81	7	3,110.29	7	2,752.77
1/4		1/4		1/4		1/4	4,886.58	1/4	4,531.35	1/4	4,174.87	1/4	3,817.89	1/4	3,460.37	1/4	3,102.84	1/4	2,745.32
1/2		1/2		1/2		1/2	4,879.23	1/2	4,523.93	1/2	4,167.44	1/2	3,810.44	1/2	3,452.92	1/2	3,095.39	1/2	2,737.87
3/4		3/4		3/4		3/4	4,871.88	3/4	4,516.50	3/4	4,160.02	3/4	3,802.99	3/4	3,445.47	3/4	3,087.95	3/4	2,730.42
8		8		8		8	4,864.53	8	4,509.07	8	4,152.59	8	3,795.54	8	3,438.02	8	3,080.50	8	2,722.97
1/4		1/4		1/4		1/4	4,857.17	1/4	4,501.65	1/4	4,145.16	1/4	3,788.10	1/4	3,430.57	1/4	3,073.05	1/4	2,715.53
1/2		1/2		1/2		1/2	4,849.82	1/2	4,494.22	1/2	4,137.74	1/2	3,780.65	1/2	3,423.12	1/2	3,065.60	1/2	2,708.08
3/4		3/4		3/4		3/4	4,842.46	3/4	4,486.79	3/4	4,130.31	3/4	3,773.20	3/4	3,415.68	3/4	3,058.15	3/4	2,700.63
9		9		9		9	4,835.11	9	4,479.37	9	4,122.88	9	3,765.75	9	3,408.23	9	3,050.70	9	2,693.18
1/4		1/4		1/4		1/4	4,827.76	1/4	4,471.94	1/4	4,115.46	1/4	3,758.30	1/4	3,400.78	1/4	3,043.26	1/4	2,685.73
1/2		1/2		1/2		1/2	4,820.40	1/2	4,464.51	1/2	4,108.03	1/2	3,750.85	1/2	3,393.33	1/2	3,035.81	1/2	2,678.28
3/4		3/4		3/4		3/4	4,813.05	3/4	4,457.09	3/4	4,100.60	3/4	3,743.41	3/4	3,385.88	3/4	3,028.36	3/4	2,670.84
10		10		10		10	4,805.70	10	4,449.66	10	4,093.18	10	3,735.96	10	3,378.43	10	3,020.91	10	2,663.39
1/4		1/4		1/4		1/4	4,798.34	1/4	4,442.23	1/4	4,085.75	1/4	3,728.51	1/4	3,370.99	1/4	3,013.46	1/4	2,655.94
1/2		1/2		1/2		1/2	4,790.99	1/2	4,434.81	1/2	4,078.32	1/2	3,721.06	1/2	3,363.54	1/2	3,006.01	1/2	2,648.49
3/4		3/4		3/4		3/4	4,783.64	3/4	4,427.38	3/4	4,070.90	3/4	3,713.61	3/4	3,356.09	3/4	2,998.57	3/4	2,641.04
11		11		11		11	4,776.29	11	4,419.95	11	4,063.47	11	3,706.16	11	3,348.64	11	2,991.12	11	2,633.59
1/4		1/4		1/4		1/4	4,768.90	1/4	4,412.53	1/4	4,056.04	1/4	3,698.72	1/4	3,341.19	1/4	2,983.67	1/4	2,626.15
1/2		1/2		1/2		1/2	4,761.51	1/2	4,405.10	1/2	4,048.62	1/2	3,691.27	1/2	3,333.74	1/2	2,976.22	1/2	2,618.70
3/4		3/4		3/4		3/4	4,754.12	3/4	4,397.67	3/4	4,041.19	3/4	3,683.82	3/4	3,326.30	3/4	2,968.77	3/4	2,611.25

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

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



BARGE "E2MS 313"

1 STBD

ULLAGE TABLE

10" HATCH

GAUGE HEIGHT 17'-07"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,603.80	0	2,246.18	0	1,888.56	0	1,530.93	0	1,173.31	0	816.15	0	459.00	0	132.86	0			
1/4	2,596.35	1/4	2,238.73	1/4	1,881.11	1/4	1,523.48	1/4	1,165.86	1/4	808.71	1/4	451.72	1/4	126.63	1/4			
1/2	2,588.90	1/2	2,231.28	1/2	1,873.66	1/2	1,516.03	1/2	1,158.41	1/2	801.27	1/2	444.44	1/2	120.41	1/2			
3/4	2,581.45	3/4	2,223.83	3/4	1,866.20	3/4	1,508.58	3/4	1,150.96	3/4	793.82	3/4	437.17	3/4	114.18	3/4			
1	2,574.00	1	2,216.38	1	1,858.75	1	1,501.13	1	1,143.51	1	786.38	1	429.89	1	107.96	1			
1/4	2,566.55	1/4	2,208.93	1/4	1,851.30	1/4	1,493.68	1/4	1,136.06	1/4	778.93	1/4	422.71	1/4	101.82	1/4			
1/2	2,559.10	1/2	2,201.48	1/2	1,843.85	1/2	1,486.23	1/2	1,128.61	1/2	771.48	1/2	415.52	1/2	95.69	1/2			
3/4	2,551.65	3/4	2,194.03	3/4	1,836.40	3/4	1,478.78	3/4	1,121.15	3/4	764.03	3/4	408.33	3/4	89.56	3/4			
2	2,544.20	2	2,186.58	2	1,828.95	2	1,471.33	2	1,113.70	2	756.58	2	401.14	2	83.43	2			
1/4	2,536.75	1/4	2,179.13	1/4	1,821.50	1/4	1,463.88	1/4	1,106.26	1/4	749.13	1/4	394.04	1/4	77.40	1/4			
1/2	2,529.30	1/2	2,171.68	1/2	1,814.05	1/2	1,456.43	1/2	1,098.81	1/2	741.68	1/2	386.94	1/2	71.37	1/2			
3/4	2,521.85	3/4	2,164.22	3/4	1,806.60	3/4	1,448.98	3/4	1,091.36	3/4	734.23	3/4	379.84	3/4	65.34	3/4			
3	2,514.40	3	2,156.77	3	1,799.15	3	1,441.53	3	1,083.91	3	726.78	3	372.74	3	59.31	3			
1/4	2,506.95	1/4	2,149.32	1/4	1,791.70	1/4	1,434.08	1/4	1,076.47	1/4	719.33	1/4	365.73	1/4	53.84	1/4			
1/2	2,499.50	1/2	2,141.87	1/2	1,784.25	1/2	1,426.63	1/2	1,069.02	1/2	711.88	1/2	358.71	1/2	48.36	1/2			
3/4	2,492.05	3/4	2,134.42	3/4	1,776.80	3/4	1,419.17	3/4	1,061.58	3/4	704.42	3/4	351.70	3/4	42.88	3/4			
4	2,484.60	4	2,126.97	4	1,769.35	4	1,411.72	4	1,054.13	4	696.97	4	344.69	4	37.40	4			
1/4	2,477.15	1/4	2,119.52	1/4	1,761.90	1/4	1,404.27	1/4	1,046.69	1/4	689.52	1/4	337.76	1/4	33.38	1/4			
1/2	2,469.70	1/2	2,112.07	1/2	1,754.45	1/2	1,396.82	1/2	1,039.25	1/2	682.07	1/2	330.83	1/2	29.37	1/2			
3/4	2,462.24	3/4	2,104.62	3/4	1,747.00	3/4	1,389.37	3/4	1,031.81	3/4	674.62	3/4	323.91	3/4	25.36	3/4			
5	2,454.79	5	2,097.17	5	1,739.55	5	1,381.92	5	1,024.37	5	667.17	5	316.98	5	21.35	5			
1/4	2,447.34	1/4	2,089.72	1/4	1,732.10	1/4	1,374.47	1/4	1,016.93	1/4	659.72	1/4	310.14	1/4	18.43	1/4			
1/2	2,439.89	1/2	2,082.27	1/2	1,724.65	1/2	1,367.02	1/2	1,009.50	1/2	652.27	1/2	303.31	1/2	15.51	1/2			
3/4	2,432.44	3/4	2,074.82	3/4	1,717.19	3/4	1,359.57	3/4	1,002.06	3/4	644.82	3/4	296.47	3/4	12.60	3/4			
6	2,424.99	6	2,067.37	6	1,709.74	6	1,352.12	6	994.63	6	637.37	6	289.63	6	9.68	6			
1/4	2,417.54	1/4	2,059.92	1/4	1,702.29	1/4	1,344.67	1/4	987.19	1/4	629.92	1/4	282.88	1/4	7.82	1/4			
1/2	2,410.09	1/2	2,052.47	1/2	1,694.84	1/2	1,337.22	1/2	979.75	1/2	622.47	1/2	276.13	1/2	5.96	1/2			
3/4	2,402.64	3/4	2,045.02	3/4	1,687.39	3/4	1,329.77	3/4	972.32	3/4	615.02	3/4	269.38	3/4	4.09	3/4			
7	2,395.19	7	2,037.57	7	1,679.94	7	1,322.32	7	964.88	7	607.57	7	262.63	7	2.23	7			
1/4	2,387.74	1/4	2,030.12	1/4	1,672.49	1/4	1,314.87	1/4	957.44	1/4	600.12	1/4	255.96	1/4		1/4			
1/2	2,380.29	1/2	2,022.67	1/2	1,665.04	1/2	1,307.42	1/2	950.01	1/2	592.67	1/2	249.30	1/2		1/2			
3/4	2,372.84	3/4	2,015.21	3/4	1,657.59	3/4	1,299.97	3/4	942.57	3/4	585.22	3/4	242.64	3/4		3/4			
8	2,365.39	8	2,007.76	8	1,650.14	8	1,292.52	8	935.13	8	577.77	8	235.97	8		8			
1/4	2,357.94	1/4	2,000.31	1/4	1,642.69	1/4	1,285.07	1/4	927.70	1/4	570.32	1/4	229.40	1/4		1/4			
1/2	2,350.49	1/2	1,992.86	1/2	1,635.24	1/2	1,277.62	1/2	920.26	1/2	562.87	1/2	222.82	1/2		1/2			
3/4	2,343.04	3/4	1,985.41	3/4	1,627.79	3/4	1,270.16	3/4	912.83	3/4	555.41	3/4	216.25	3/4		3/4			
9	2,335.59	9	1,977.96	9	1,620.34	9	1,262.71	9	905.39	9	547.96	9	209.67	9		9			
1/4	2,328.14	1/4	1,970.51	1/4	1,612.89	1/4	1,255.26	1/4	897.95	1/4	540.51	1/4	203.18	1/4		1/4			
1/2	2,320.69	1/2	1,963.06	1/2	1,605.44	1/2	1,247.81	1/2	890.52	1/2	533.06	1/2	196.69	1/2		1/2			
3/4	2,313.23	3/4	1,955.61	3/4	1,597.99	3/4	1,240.36	3/4	883.08	3/4	525.61	3/4	190.20	3/4		3/4			
10	2,305.78	10	1,948.16	10	1,590.54	10	1,232.91	10	875.64	10	518.16	10	183.72	10		10			
1/4	2,298.33	1/4	1,940.71	1/4	1,583.09	1/4	1,225.46	1/4	868.21	1/4	510.73	1/4	177.31	1/4		1/4			
1/2	2,290.88	1/2	1,933.26	1/2	1,575.64	1/2	1,218.01	1/2	860.77	1/2	503.30	1/2	170.91	1/2		1/2			
3/4	2,283.43	3/4	1,925.81	3/4	1,568.18	3/4	1,210.56	3/4	853.34	3/4	495.88	3/4	164.51	3/4		3/4			
11	2,275.98	11	1,918.36	11	1,560.73	11	1,203.11	11	845.90	11	488.45	11	158.11	11		11			
1/4	2,268.53	1/4	1,910.91	1/4	1,553.28	1/4	1,195.66	1/4	838.46	1/4	481.08	1/4	151.80	1/4		1/4			
1/2	2,261.08	1/2	1,903.46	1/2	1,545.83	1/2	1,188.21	1/2	831.03	1/2	473.72	1/2	145.48	1/2		1/2			
3/4	2,253.63	3/4	1,896.01	3/4	1,538.38	3/4	1,180.76	3/4	823.59	3/4	466.36	3/4	139.17	3/4		3/4			

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

CANCELS AND SUPERCEDES
 ALL PRIOR TO 01/2019

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "E2MS 313"

2 PORT ULLAGE TABLE

10" HATCH GAUGE HEIGHT 17'-07"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	5,105.84	0	4,808.41	0	4,450.95	0	4,093.48	0	3,735.10	0	3,376.60	0	3,018.09
1/4		1/4		1/4		1/4	5,103.75	1/4	4,800.97	1/4	4,443.50	1/4	4,086.03	1/4	3,727.64	1/4	3,369.13	1/4	3,010.62
1/2		1/2		1/2		1/2	5,101.66	1/2	4,793.52	1/2	4,436.05	1/2	4,078.59	1/2	3,720.17	1/2	3,361.66	1/2	3,003.15
3/4		3/4		3/4		3/4	5,099.57	3/4	4,786.07	3/4	4,428.61	3/4	4,071.14	3/4	3,712.70	3/4	3,354.19	3/4	2,995.68
1		1		1		1	5,097.48	1	4,778.62	1	4,421.16	1	4,063.69	1	3,705.23	1	3,346.72	1	2,988.21
1/4		1/4		1/4		1/4	5,094.14	1/4	4,771.18	1/4	4,413.71	1/4	4,056.23	1/4	3,697.76	1/4	3,339.25	1/4	2,980.75
1/2		1/2		1/2		1/2	5,090.81	1/2	4,763.73	1/2	4,406.26	1/2	4,048.78	1/2	3,690.29	1/2	3,331.78	1/2	2,973.28
3/4		3/4		3/4		3/4	5,087.47	3/4	4,756.28	3/4	4,398.82	3/4	4,041.32	3/4	3,682.82	3/4	3,324.31	3/4	2,965.81
2		2		2		2	5,084.14	2	4,748.83	2	4,391.37	2	4,033.86	2	3,675.35	2	3,316.85	2	2,958.34
1/4		1/4		1/4		1/4	5,079.56	1/4	4,741.39	1/4	4,383.92	1/4	4,026.39	1/4	3,667.88	1/4	3,309.38	1/4	2,950.87
1/2		1/2		1/2		1/2	5,074.98	1/2	4,733.94	1/2	4,376.47	1/2	4,018.92	1/2	3,660.42	1/2	3,301.91	1/2	2,943.40
3/4		3/4		3/4		3/4	5,070.40	3/4	4,726.49	3/4	4,369.03	3/4	4,011.45	3/4	3,652.95	3/4	3,294.44	3/4	2,935.93
3		3		3		3	5,065.82	3	4,719.05	3	4,361.58	3	4,003.98	3	3,645.48	3	3,286.97	3	2,928.46
1/4		1/4		1/4		1/4	5,059.99	1/4	4,711.60	1/4	4,354.13	1/4	3,996.52	1/4	3,638.01	1/4	3,279.50	1/4	2,920.99
1/2		1/2		1/2		1/2	5,054.17	1/2	4,704.15	1/2	4,346.69	1/2	3,989.05	1/2	3,630.54	1/2	3,272.03	1/2	2,913.53
3/4		3/4		3/4		3/4	5,048.34	3/4	4,696.70	3/4	4,339.24	3/4	3,981.58	3/4	3,623.07	3/4	3,264.56	3/4	2,906.06
4		4		4		4	5,042.52	4	4,689.26	4	4,331.79	4	3,974.11	4	3,615.60	4	3,257.09	4	2,898.59
1/4		1/4		1/4		1/4	5,035.64	1/4	4,681.81	1/4	4,324.34	1/4	3,966.64	1/4	3,608.13	1/4	3,249.63	1/4	2,891.12
1/2		1/2		1/2		1/2	5,028.76	1/2	4,674.36	1/2	4,316.90	1/2	3,959.17	1/2	3,600.66	1/2	3,242.16	1/2	2,883.65
3/4		3/4		3/4		3/4	5,021.88	3/4	4,666.92	3/4	4,309.45	3/4	3,951.70	3/4	3,593.19	3/4	3,234.69	3/4	2,876.18
5		5		5		5	5,015.00	5	4,659.47	5	4,302.00	5	3,944.23	5	3,585.73	5	3,227.22	5	2,868.71
1/4		1/4		1/4		1/4	5,007.66	1/4	4,652.02	1/4	4,294.56	1/4	3,936.76	1/4	3,578.26	1/4	3,219.75	1/4	2,861.24
1/2		1/2		1/2		1/2	5,000.32	1/2	4,644.57	1/2	4,287.11	1/2	3,929.30	1/2	3,570.79	1/2	3,212.28	1/2	2,853.77
3/4		3/4		3/4		3/4	4,992.99	3/4	4,637.13	3/4	4,279.66	3/4	3,921.83	3/4	3,563.32	3/4	3,204.81	3/4	2,846.30
6		6		6		6	4,985.65	6	4,629.68	6	4,272.21	6	3,914.36	6	3,555.85	6	3,197.34	6	2,838.84
1/4		1/4		1/4		1/4	4,978.28	1/4	4,622.23	1/4	4,264.77	1/4	3,906.89	1/4	3,548.38	1/4	3,189.87	1/4	2,831.37
1/2		1/2		1/2		1/2	4,970.90	1/2	4,614.79	1/2	4,257.32	1/2	3,899.42	1/2	3,540.91	1/2	3,182.41	1/2	2,823.90
3/4		3/4		3/4		3/4	4,963.53	3/4	4,607.34	3/4	4,249.87	3/4	3,891.95	3/4	3,533.44	3/4	3,174.94	3/4	2,816.43
7		7		7		7	4,956.16	7	4,599.89	7	4,242.43	7	3,884.48	7	3,525.97	7	3,167.47	7	2,808.96
1/4		1/4		1/4		1/4	4,948.78	1/4	4,592.44	1/4	4,234.98	1/4	3,877.01	1/4	3,518.51	1/4	3,160.00	1/4	2,801.49
1/2		1/2		1/2		1/2	4,941.40	1/2	4,585.00	1/2	4,227.53	1/2	3,869.54	1/2	3,511.04	1/2	3,152.53	1/2	2,794.02
3/4		3/4		3/4		3/4	4,934.02	3/4	4,577.55	3/4	4,220.08	3/4	3,862.08	3/4	3,503.57	3/4	3,145.06	3/4	2,786.55
8		8		8		8	4,926.64	8	4,570.10	8	4,212.64	8	3,854.61	8	3,496.10	8	3,137.59	8	2,779.08
1/4		1/4		1/4		1/4	4,919.26	1/4	4,562.65	1/4	4,205.19	1/4	3,847.14	1/4	3,488.63	1/4	3,130.12	1/4	2,771.62
1/2		1/2		1/2		1/2	4,911.88	1/2	4,555.21	1/2	4,197.74	1/2	3,839.67	1/2	3,481.16	1/2	3,122.65	1/2	2,764.15
3/4		3/4		3/4		3/4	4,904.50	3/4	4,547.76	3/4	4,190.29	3/4	3,832.20	3/4	3,473.69	3/4	3,115.19	3/4	2,756.68
9		9		9		9	4,897.12	9	4,540.31	9	4,182.85	9	3,824.73	9	3,466.22	9	3,107.72	9	2,749.21
1/4		1/4		1/4		1/4	4,889.74	1/4	4,532.87	1/4	4,175.40	1/4	3,817.26	1/4	3,458.75	1/4	3,100.25	1/4	2,741.74
1/2		1/2		1/2		1/2	4,882.36	1/2	4,525.42	1/2	4,167.95	1/2	3,809.79	1/2	3,451.29	1/2	3,092.78	1/2	2,734.27
3/4		3/4		3/4		3/4	4,874.98	3/4	4,517.97	3/4	4,160.51	3/4	3,802.32	3/4	3,443.82	3/4	3,085.31	3/4	2,726.80
10		10		10		10	4,867.59	10	4,510.52	10	4,153.06	10	3,794.86	10	3,436.35	10	3,077.84	10	2,719.33
1/4		1/4		1/4		1/4	4,860.21	1/4	4,503.08	1/4	4,145.61	1/4	3,787.39	1/4	3,428.88	1/4	3,070.37	1/4	2,711.86
1/2		1/2		1/2		1/2	4,852.83	1/2	4,495.63	1/2	4,138.16	1/2	3,779.92	1/2	3,421.41	1/2	3,062.90	1/2	2,704.40
3/4		3/4		3/4		3/4	4,845.45	3/4	4,488.18	3/4	4,130.72	3/4	3,772.45	3/4	3,413.94	3/4	3,055.43	3/4	2,696.93
11		11		11		11	4,838.07	11	4,480.74	11	4,123.27	11	3,764.98	11	3,406.47	11	3,047.97	11	2,689.46
1/4		1/4		1/4		1/4	4,830.66	1/4	4,473.29	1/4	4,115.82	1/4	3,757.51	1/4	3,399.00	1/4	3,040.50	1/4	2,681.99
1/2		1/2		1/2		1/2	4,823.24	1/2	4,465.84	1/2	4,108.38	1/2	3,750.04	1/2	3,391.53	1/2	3,033.03	1/2	2,674.52
3/4		3/4		3/4		3/4	4,815.83	3/4	4,458.39	3/4	4,100.93	3/4	3,742.57	3/4	3,384.07	3/4	3,025.56	3/4	2,667.05

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

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





BARGE "E2MS 313"

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

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,659.58	0	2,301.08	0	1,942.57	0	1,584.06	0	1,225.55	0	879.75	0	522.99	0	164.48	0			
1/4	2,652.11	1/4	2,293.61	1/4	1,935.10	1/4	1,576.59	1/4	1,218.08	1/4	872.58	1/4	515.52	1/4	157.01	1/4			
1/2	2,644.64	1/2	2,286.14	1/2	1,927.63	1/2	1,569.12	1/2	1,210.62	1/2	865.40	1/2	508.05	1/2	149.54	1/2			
3/4	2,637.18	3/4	2,278.67	3/4	1,920.16	3/4	1,561.65	3/4	1,203.15	3/4	858.23	3/4	500.58	3/4	142.08	3/4			
1	2,629.71	1	2,271.20	1	1,912.69	1	1,554.19	1	1,195.68	1	851.05	1	493.11	1	134.61	1			
1/4	2,622.24	1/4	2,263.73	1/4	1,905.22	1/4	1,546.72	1/4	1,188.35	1/4	843.73	1/4	485.64	1/4	127.14	1/4			
1/2	2,614.77	1/2	2,256.26	1/2	1,897.75	1/2	1,539.25	1/2	1,181.02	1/2	836.40	1/2	478.17	1/2	119.68	1/2			
3/4	2,607.30	3/4	2,248.79	3/4	1,890.29	3/4	1,531.78	3/4	1,173.69	3/4	829.07	3/4	470.70	3/4	112.22	3/4			
2	2,599.83	2	2,241.32	2	1,882.82	2	1,524.31	2	1,166.37	2	821.74	2	463.24	2	104.76	2			
1/4	2,592.36	1/4	2,233.86	1/4	1,875.35	1/4	1,516.84	1/4	1,159.19	1/4	814.27	1/4	455.77	1/4	97.31	1/4			
1/2	2,584.89	1/2	2,226.39	1/2	1,867.88	1/2	1,509.37	1/2	1,152.01	1/2	806.81	1/2	448.30	1/2	89.86	1/2			
3/4	2,577.42	3/4	2,218.92	3/4	1,860.41	3/4	1,501.90	3/4	1,144.83	3/4	799.34	3/4	440.83	3/4	82.42	3/4			
3	2,569.96	3	2,211.45	3	1,852.94	3	1,494.43	3	1,137.65	3	791.87	3	433.36	3	74.97	3			
1/4	2,562.49	1/4	2,203.98	1/4	1,845.47	1/4	1,486.97	1/4	1,130.48	1/4	784.40	1/4	425.89	1/4	67.99	1/4			
1/2	2,555.02	1/2	2,196.51	1/2	1,838.00	1/2	1,479.50	1/2	1,123.31	1/2	776.93	1/2	418.42	1/2	61.01	1/2			
3/4	2,547.55	3/4	2,189.04	3/4	1,830.53	3/4	1,472.03	3/4	1,116.14	3/4	769.46	3/4	410.95	3/4	54.02	3/4			
4	2,540.08	4	2,181.57	4	1,823.07	4	1,464.56	4	1,108.97	4	761.99	4	403.48	4	47.04	4			
1/4	2,532.61	1/4	2,174.10	1/4	1,815.60	1/4	1,457.09	1/4	1,101.80	1/4	754.52	1/4	396.02	1/4	41.44	1/4			
1/2	2,525.14	1/2	2,166.64	1/2	1,808.13	1/2	1,449.62	1/2	1,094.63	1/2	747.05	1/2	388.55	1/2	35.84	1/2			
3/4	2,517.67	3/4	2,159.17	3/4	1,800.66	3/4	1,442.15	3/4	1,087.47	3/4	739.59	3/4	381.08	3/4	30.24	3/4			
5	2,510.20	5	2,151.70	5	1,793.19	5	1,434.68	5	1,080.30	5	732.12	5	373.61	5	24.64	5			
1/4	2,502.74	1/4	2,144.23	1/4	1,785.72	1/4	1,427.21	1/4	1,073.14	1/4	724.65	1/4	366.14	1/4	20.90	1/4			
1/2	2,495.27	1/2	2,136.76	1/2	1,778.25	1/2	1,419.75	1/2	1,065.98	1/2	717.18	1/2	358.67	1/2	17.17	1/2			
3/4	2,487.80	3/4	2,129.29	3/4	1,770.78	3/4	1,412.28	3/4	1,058.81	3/4	709.71	3/4	351.20	3/4	13.43	3/4			
6	2,480.33	6	2,121.82	6	1,763.31	6	1,404.81	6	1,051.65	6	702.24	6	343.73	6	9.70	6			
1/4	2,472.86	1/4	2,114.35	1/4	1,755.85	1/4	1,397.34	1/4	1,044.49	1/4	694.77	1/4	336.26	1/4	7.83	1/4			
1/2	2,465.39	1/2	2,106.88	1/2	1,748.38	1/2	1,389.87	1/2	1,037.33	1/2	687.30	1/2	328.80	1/2	5.97	1/2			
3/4	2,457.92	3/4	2,099.41	3/4	1,740.91	3/4	1,382.40	3/4	1,030.16	3/4	679.83	3/4	321.33	3/4	4.10	3/4			
7	2,450.45	7	2,091.95	7	1,733.44	7	1,374.93	7	1,023.00	7	672.37	7	313.86	7	2.23	7			
1/4	2,442.98	1/4	2,084.48	1/4	1,725.97	1/4	1,367.46	1/4	1,015.84	1/4	664.90	1/4	306.39	1/4		1/4			
1/2	2,435.52	1/2	2,077.01	1/2	1,718.50	1/2	1,359.99	1/2	1,008.68	1/2	657.43	1/2	298.92	1/2		1/2			
3/4	2,428.05	3/4	2,069.54	3/4	1,711.03	3/4	1,352.52	3/4	1,001.51	3/4	649.96	3/4	291.45	3/4		3/4			
8	2,420.58	8	2,062.07	8	1,703.56	8	1,345.06	8	994.35	8	642.49	8	283.98	8		8			
1/4	2,413.11	1/4	2,054.60	1/4	1,696.09	1/4	1,337.59	1/4	987.19	1/4	635.02	1/4	276.51	1/4		1/4			
1/2	2,405.64	1/2	2,047.13	1/2	1,688.63	1/2	1,330.12	1/2	980.03	1/2	627.55	1/2	269.04	1/2		1/2			
3/4	2,398.17	3/4	2,039.66	3/4	1,681.16	3/4	1,322.65	3/4	972.86	3/4	620.08	3/4	261.58	3/4		3/4			
9	2,390.70	9	2,032.19	9	1,673.69	9	1,315.18	9	965.70	9	612.61	9	254.11	9		9			
1/4	2,383.23	1/4	2,024.73	1/4	1,666.22	1/4	1,307.71	1/4	958.54	1/4	605.15	1/4	246.64	1/4		1/4			
1/2	2,375.76	1/2	2,017.26	1/2	1,658.75	1/2	1,300.24	1/2	951.38	1/2	597.68	1/2	239.17	1/2		1/2			
3/4	2,368.30	3/4	2,009.79	3/4	1,651.28	3/4	1,292.77	3/4	944.21	3/4	590.21	3/4	231.70	3/4		3/4			
10	2,360.83	10	2,002.32	10	1,643.81	10	1,285.30	10	937.05	10	582.74	10	224.23	10		10			
1/4	2,353.36	1/4	1,994.85	1/4	1,636.34	1/4	1,277.84	1/4	929.89	1/4	575.27	1/4	216.76	1/4		1/4			
1/2	2,345.89	1/2	1,987.38	1/2	1,628.87	1/2	1,270.37	1/2	922.73	1/2	567.80	1/2	209.29	1/2		1/2			
3/4	2,338.42	3/4	1,979.91	3/4	1,621.41	3/4	1,262.90	3/4	915.57	3/4	560.33	3/4	201.82	3/4		3/4			
11	2,330.95	11	1,972.44	11	1,613.94	11	1,255.43	11	908.40	11	552.86	11	194.36	11		11			
1/4	2,323.48	1/4	1,964.97	1/4	1,606.47	1/4	1,247.96	1/4	901.24	1/4	545.39	1/4	186.89	1/4		1/4			
1/2	2,316.01	1/2	1,957.51	1/2	1,599.00	1/2	1,240.49	1/2	894.08	1/2	537.93	1/2	179.42	1/2		1/2			
3/4	2,308.54	3/4	1,950.04	3/4	1,591.53	3/4	1,233.02	3/4	886.92	3/4	530.46	3/4	171.95	3/4		3/4			

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

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2019

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "E2MS 313"

2 STBD ULLAGE TABLE

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

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	5,119.02	0	4,816.45	0	4,458.93	0	4,101.41	0	3,742.96	0	3,384.39	0	3,025.82
1/4		1/4		1/4		1/4	5,116.93	1/4	4,809.00	1/4	4,451.48	1/4	4,093.96	1/4	3,735.49	1/4	3,376.92	1/4	3,018.35
1/2		1/2		1/2		1/2	5,114.85	1/2	4,801.56	1/2	4,444.03	1/2	4,086.51	1/2	3,728.02	1/2	3,369.45	1/2	3,010.88
3/4		3/4		3/4		3/4	5,112.76	3/4	4,794.11	3/4	4,436.58	3/4	4,079.06	3/4	3,720.55	3/4	3,361.98	3/4	3,003.41
1		1		1		1	5,109.44	1	4,786.66	1	4,429.14	1	4,071.60	1	3,713.08	1	3,354.51	1	2,995.94
1/4		1/4		1/4		1/4	5,106.11	1/4	4,779.21	1/4	4,421.69	1/4	4,064.15	1/4	3,705.61	1/4	3,347.04	1/4	2,988.47
1/2		1/2		1/2		1/2	5,102.78	1/2	4,771.76	1/2	4,414.24	1/2	4,056.69	1/2	3,698.14	1/2	3,339.57	1/2	2,981.00
3/4		3/4		3/4		3/4	5,099.45	3/4	4,764.31	3/4	4,406.79	3/4	4,049.24	3/4	3,690.67	3/4	3,332.10	3/4	2,973.53
2		2		2		2	5,094.87	2	4,756.87	2	4,399.34	2	4,041.77	2	3,683.20	2	3,324.63	2	2,966.06
1/4		1/4		1/4		1/4	5,090.30	1/4	4,749.42	1/4	4,391.89	1/4	4,034.30	1/4	3,675.73	1/4	3,317.16	1/4	2,958.59
1/2		1/2		1/2		1/2	5,085.72	1/2	4,741.97	1/2	4,384.45	1/2	4,026.83	1/2	3,668.26	1/2	3,309.69	1/2	2,951.12
3/4		3/4		3/4		3/4	5,081.15	3/4	4,734.52	3/4	4,377.00	3/4	4,019.36	3/4	3,660.79	3/4	3,302.22	3/4	2,943.65
3		3		3		3	5,075.33	3	4,727.07	3	4,369.55	3	4,011.89	3	3,653.32	3	3,294.75	3	2,936.18
1/4		1/4		1/4		1/4	5,069.51	1/4	4,719.62	1/4	4,362.10	1/4	4,004.42	1/4	3,645.85	1/4	3,287.28	1/4	2,928.71
1/2		1/2		1/2		1/2	5,063.69	1/2	4,712.18	1/2	4,354.65	1/2	3,996.94	1/2	3,638.38	1/2	3,279.81	1/2	2,921.24
3/4		3/4		3/4		3/4	5,057.87	3/4	4,704.73	3/4	4,347.20	3/4	3,989.47	3/4	3,630.91	3/4	3,272.34	3/4	2,913.77
4		4		4		4	5,050.99	4	4,697.28	4	4,339.76	4	3,982.00	4	3,623.43	4	3,264.87	4	2,906.30
1/4		1/4		1/4		1/4	5,044.12	1/4	4,689.83	1/4	4,332.31	1/4	3,974.53	1/4	3,615.96	1/4	3,257.40	1/4	2,898.83
1/2		1/2		1/2		1/2	5,037.24	1/2	4,682.38	1/2	4,324.86	1/2	3,967.06	1/2	3,608.49	1/2	3,249.92	1/2	2,891.36
3/4		3/4		3/4		3/4	5,030.37	3/4	4,674.93	3/4	4,317.41	3/4	3,959.59	3/4	3,601.02	3/4	3,242.45	3/4	2,883.89
5		5		5		5	5,023.04	5	4,667.48	5	4,309.96	5	3,952.12	5	3,593.55	5	3,234.98	5	2,876.41
1/4		1/4		1/4		1/4	5,015.70	1/4	4,660.04	1/4	4,302.51	1/4	3,944.65	1/4	3,586.08	1/4	3,227.51	1/4	2,868.94
1/2		1/2		1/2		1/2	5,008.37	1/2	4,652.59	1/2	4,295.06	1/2	3,937.18	1/2	3,578.61	1/2	3,220.04	1/2	2,861.47
3/4		3/4		3/4		3/4	5,001.03	3/4	4,645.14	3/4	4,287.62	3/4	3,929.71	3/4	3,571.14	3/4	3,212.57	3/4	2,854.00
6		6		6		6	4,993.66	6	4,637.69	6	4,280.17	6	3,922.24	6	3,563.67	6	3,205.10	6	2,846.53
1/4		1/4		1/4		1/4	4,986.29	1/4	4,630.24	1/4	4,272.72	1/4	3,914.77	1/4	3,556.20	1/4	3,197.63	1/4	2,839.06
1/2		1/2		1/2		1/2	4,978.93	1/2	4,622.79	1/2	4,265.27	1/2	3,907.30	1/2	3,548.73	1/2	3,190.16	1/2	2,831.59
3/4		3/4		3/4		3/4	4,971.56	3/4	4,615.35	3/4	4,257.82	3/4	3,899.83	3/4	3,541.26	3/4	3,182.69	3/4	2,824.12
7		7		7		7	4,964.18	7	4,607.90	7	4,250.37	7	3,892.36	7	3,533.79	7	3,175.22	7	2,816.65
1/4		1/4		1/4		1/4	4,956.81	1/4	4,600.45	1/4	4,242.93	1/4	3,884.89	1/4	3,526.32	1/4	3,167.75	1/4	2,809.18
1/2		1/2		1/2		1/2	4,949.43	1/2	4,593.00	1/2	4,235.48	1/2	3,877.42	1/2	3,518.85	1/2	3,160.28	1/2	2,801.71
3/4		3/4		3/4		3/4	4,942.05	3/4	4,585.55	3/4	4,228.03	3/4	3,869.95	3/4	3,511.38	3/4	3,152.81	3/4	2,794.24
8		8		8		8	4,934.68	8	4,578.10	8	4,220.58	8	3,862.48	8	3,503.91	8	3,145.34	8	2,786.77
1/4		1/4		1/4		1/4	4,927.30	1/4	4,570.66	1/4	4,213.13	1/4	3,855.01	1/4	3,496.44	1/4	3,137.87	1/4	2,779.30
1/2		1/2		1/2		1/2	4,919.93	1/2	4,563.21	1/2	4,205.68	1/2	3,847.54	1/2	3,488.97	1/2	3,130.40	1/2	2,771.83
3/4		3/4		3/4		3/4	4,912.55	3/4	4,555.76	3/4	4,198.24	3/4	3,840.07	3/4	3,481.50	3/4	3,122.93	3/4	2,764.36
9		9		9		9	4,905.18	9	4,548.31	9	4,190.79	9	3,832.60	9	3,474.03	9	3,115.46	9	2,756.89
1/4		1/4		1/4		1/4	4,897.80	1/4	4,540.86	1/4	4,183.34	1/4	3,825.13	1/4	3,466.56	1/4	3,107.99	1/4	2,749.42
1/2		1/2		1/2		1/2	4,890.43	1/2	4,533.41	1/2	4,175.89	1/2	3,817.66	1/2	3,459.09	1/2	3,100.52	1/2	2,741.95
3/4		3/4		3/4		3/4	4,883.05	3/4	4,525.97	3/4	4,168.44	3/4	3,810.19	3/4	3,451.62	3/4	3,093.05	3/4	2,734.48
10		10		10		10	4,875.68	10	4,518.52	10	4,160.99	10	3,802.72	10	3,444.15	10	3,085.58	10	2,727.01
1/4		1/4		1/4		1/4	4,868.30	1/4	4,511.07	1/4	4,153.55	1/4	3,795.25	1/4	3,436.68	1/4	3,078.11	1/4	2,719.54
1/2		1/2		1/2		1/2	4,860.93	1/2	4,503.62	1/2	4,146.10	1/2	3,787.78	1/2	3,429.21	1/2	3,070.64	1/2	2,712.07
3/4		3/4		3/4		3/4	4,853.55	3/4	4,496.17	3/4	4,138.65	3/4	3,780.31	3/4	3,421.74	3/4	3,063.17	3/4	2,704.60
11		11		11		11	4,846.14	11	4,488.72	11	4,131.20	11	3,772.84	11	3,414.27	11	3,055.70	11	2,697.13
1/4		1/4		1/4		1/4	4,838.73	1/4	4,481.27	1/4	4,123.75	1/4	3,765.37	1/4	3,406.80	1/4	3,048.23	1/4	2,689.66
1/2		1/2		1/2		1/2	4,831.31	1/2	4,473.83	1/2	4,116.30	1/2	3,757.90	1/2	3,399.33	1/2	3,040.76	1/2	2,682.19
3/4		3/4		3/4		3/4	5,121.10	3/4	4,823.90	3/4	4,466.38	3/4	4,108.85	3/4	3,750.43	3/4	3,391.86	3/4	3,033.29

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME.

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

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "E2MS 313"

2 STBD

ULLAGE TABLE

10" HATCH

GAUGE HEIGHT 17'-06 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,667.25	0	2,308.60	0	1,949.93	0	1,591.26	0	1,232.58	0	874.39	0	515.75	0	157.08	0		0	
1/4	2,659.78	1/4	2,301.12	1/4	1,942.45	1/4	1,583.78	1/4	1,225.11	1/4	866.93	1/4	508.27	1/4	149.61	1/4		1/4	
1/2	2,652.32	1/2	2,293.65	1/2	1,934.98	1/2	1,576.31	1/2	1,217.64	1/2	859.46	1/2	500.80	1/2	142.14	1/2		1/2	
3/4	2,644.85	3/4	2,286.18	3/4	1,927.51	3/4	1,568.84	3/4	1,210.17	3/4	852.00	3/4	493.33	3/4	134.67	3/4		3/4	
1	2,637.38	1	2,278.71	1	1,920.04	1	1,561.37	1	1,202.70	1	844.52	1	485.86	1	127.20	1		1	
1/4	2,629.90	1/4	2,271.23	1/4	1,912.56	1/4	1,553.89	1/4	1,195.22	1/4	837.05	1/4	478.39	1/4	119.73	1/4		1/4	
1/2	2,622.43	1/2	2,263.76	1/2	1,905.09	1/2	1,546.42	1/2	1,187.75	1/2	829.58	1/2	470.91	1/2	112.27	1/2		1/2	
3/4	2,614.96	3/4	2,256.29	3/4	1,897.62	3/4	1,538.95	3/4	1,180.28	3/4	822.11	3/4	463.44	3/4	104.80	3/4		3/4	
2	2,607.49	2	2,248.82	2	1,890.15	2	1,531.48	2	1,172.81	2	814.63	2	455.97	2	97.35	2		2	
1/4	2,600.02	1/4	2,241.35	1/4	1,882.67	1/4	1,524.00	1/4	1,165.34	1/4	807.16	1/4	448.50	1/4	89.90	1/4		1/4	
1/2	2,592.54	1/2	2,233.87	1/2	1,875.20	1/2	1,516.53	1/2	1,157.87	1/2	799.69	1/2	441.02	1/2	82.46	1/2		1/2	
3/4	2,585.07	3/4	2,226.40	3/4	1,867.73	3/4	1,509.06	3/4	1,150.40	3/4	792.22	3/4	433.55	3/4	75.01	3/4		3/4	
3	2,577.60	3	2,218.93	3	1,860.26	3	1,501.59	3	1,142.93	3	784.75	3	426.08	3	68.02	3		3	
1/4	2,570.13	1/4	2,211.46	1/4	1,852.79	1/4	1,494.12	1/4	1,135.47	1/4	777.27	1/4	418.61	1/4	61.03	1/4		1/4	
1/2	2,562.65	1/2	2,203.98	1/2	1,845.31	1/2	1,486.64	1/2	1,128.00	1/2	769.80	1/2	411.14	1/2	54.05	1/2		1/2	
3/4	2,555.18	3/4	2,196.51	3/4	1,837.84	3/4	1,479.17	3/4	1,120.53	3/4	762.33	3/4	403.66	3/4	47.06	3/4		3/4	
4	2,547.71	4	2,189.04	4	1,830.37	4	1,471.70	4	1,113.07	4	754.86	4	396.19	4	41.46	4		4	
1/4	2,540.24	1/4	2,181.57	1/4	1,822.90	1/4	1,464.23	1/4	1,105.61	1/4	747.39	1/4	388.72	1/4	35.85	1/4		1/4	
1/2	2,532.77	1/2	2,174.09	1/2	1,815.42	1/2	1,456.75	1/2	1,098.15	1/2	739.91	1/2	381.25	1/2	30.25	1/2		1/2	
3/4	2,525.29	3/4	2,166.62	3/4	1,807.95	3/4	1,449.28	3/4	1,090.69	3/4	732.44	3/4	373.78	3/4	24.65	3/4		3/4	
5	2,517.82	5	2,159.15	5	1,800.48	5	1,441.81	5	1,083.23	5	724.97	5	366.30	5	20.91	5		5	
1/4	2,510.35	1/4	2,151.68	1/4	1,793.01	1/4	1,434.34	1/4	1,075.77	1/4	717.50	1/4	358.83	1/4	17.18	1/4		1/4	
1/2	2,502.88	1/2	2,144.21	1/2	1,785.54	1/2	1,426.86	1/2	1,068.31	1/2	710.02	1/2	351.36	1/2	13.44	1/2		1/2	
3/4	2,495.40	3/4	2,136.73	3/4	1,778.06	3/4	1,419.39	3/4	1,060.85	3/4	702.55	3/4	343.89	3/4	9.70	3/4		3/4	
6	2,487.93	6	2,129.26	6	1,770.59	6	1,411.92	6	1,053.40	6	695.08	6	336.41	6	7.84	6		6	
1/4	2,480.46	1/4	2,121.79	1/4	1,763.12	1/4	1,404.45	1/4	1,045.94	1/4	687.61	1/4	328.94	1/4	5.97	1/4		1/4	
1/2	2,472.99	1/2	2,114.32	1/2	1,755.65	1/2	1,396.98	1/2	1,038.48	1/2	680.14	1/2	321.47	1/2	4.10	1/2		1/2	
3/4	2,465.51	3/4	2,106.84	3/4	1,748.17	3/4	1,389.50	3/4	1,031.02	3/4	672.66	3/4	314.00	3/4	2.23	3/4		3/4	
7	2,458.04	7	2,099.37	7	1,740.70	7	1,382.03	7	1,023.56	7	665.19	7	306.53	7		7		7	
1/4	2,450.57	1/4	2,091.90	1/4	1,733.23	1/4	1,374.56	1/4	1,016.10	1/4	657.72	1/4	299.05	1/4		1/4		1/4	
1/2	2,443.10	1/2	2,084.43	1/2	1,725.76	1/2	1,367.09	1/2	1,008.65	1/2	650.25	1/2	291.58	1/2		1/2		1/2	
3/4	2,435.63	3/4	2,076.95	3/4	1,718.28	3/4	1,359.61	3/4	1,001.19	3/4	642.77	3/4	284.11	3/4		3/4		3/4	
8	2,428.15	8	2,069.48	8	1,710.81	8	1,352.14	8	993.73	8	635.30	8	276.64	8		8		8	
1/4	2,420.68	1/4	2,062.01	1/4	1,703.34	1/4	1,344.67	1/4	986.27	1/4	627.83	1/4	269.16	1/4		1/4		1/4	
1/2	2,413.21	1/2	2,054.54	1/2	1,695.87	1/2	1,337.20	1/2	978.81	1/2	620.36	1/2	261.69	1/2		1/2		1/2	
3/4	2,405.74	3/4	2,047.07	3/4	1,688.40	3/4	1,329.72	3/4	971.36	3/4	612.89	3/4	254.22	3/4		3/4		3/4	
9	2,398.26	9	2,039.59	9	1,680.92	9	1,322.25	9	963.90	9	605.41	9	246.75	9		9		9	
1/4	2,390.79	1/4	2,032.12	1/4	1,673.45	1/4	1,314.78	1/4	956.44	1/4	597.94	1/4	239.28	1/4		1/4		1/4	
1/2	2,383.32	1/2	2,024.65	1/2	1,665.98	1/2	1,307.31	1/2	948.98	1/2	590.47	1/2	231.80	1/2		1/2		1/2	
3/4	2,375.85	3/4	2,017.18	3/4	1,658.51	3/4	1,299.84	3/4	941.52	3/4	583.00	3/4	224.33	3/4		3/4		3/4	
10	2,368.37	10	2,009.70	10	1,651.03	10	1,292.36	10	934.07	10	575.52	10	216.86	10		10		10	
1/4	2,360.90	1/4	2,002.23	1/4	1,643.56	1/4	1,284.89	1/4	926.61	1/4	568.05	1/4	209.39	1/4		1/4		1/4	
1/2	2,353.43	1/2	1,994.76	1/2	1,636.09	1/2	1,277.42	1/2	919.15	1/2	560.58	1/2	201.91	1/2		1/2		1/2	
3/4	2,345.96	3/4	1,987.29	3/4	1,628.62	3/4	1,269.95	3/4	911.69	3/4	553.11	3/4	194.44	3/4		3/4		3/4	
11	2,338.49	11	1,979.81	11	1,621.14	11	1,262.47	11	904.23	11	545.64	11	186.97	11		11		11	
1/4	2,331.01	1/4	1,972.34	1/4	1,613.67	1/4	1,255.00	1/4	896.77	1/4	538.16	1/4	179.50	1/4		1/4		1/4	
1/2	2,323.54	1/2	1,964.87	1/2	1,606.20	1/2	1,247.53	1/2	889.32	1/2	530.69	1/2	172.03	1/2		1/2		1/2	
3/4	2,316.07	3/4	1,957.40	3/4	1,598.73	3/4	1,240.06	3/4	881.86	3/4	523.22	3/4	164.55	3/4		3/4		3/4	

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

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2019

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "E2MS 313"

3 PORT ULLAGE TABLE

10" HATCH GAUGE HEIGHT 17'-07"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	4,460.90	0	4,279.27	0	4,060.78	0	3,842.30	0	3,623.28	0	3,353.80	0	2,998.70
1/4		1/4		1/4		1/4	4,459.63	1/4	4,274.72	1/4	4,056.23	1/4	3,837.75	1/4	3,618.71	1/4	3,346.42	1/4	2,991.29
1/2		1/2		1/2		1/2	4,458.35	1/2	4,270.17	1/2	4,051.68	1/2	3,833.19	1/2	3,614.15	1/2	3,339.04	1/2	2,983.88
3/4		3/4		3/4		3/4	4,457.08	3/4	4,265.61	3/4	4,047.13	3/4	3,828.64	3/4	3,609.58	3/4	3,331.66	3/4	2,976.47
1		1		1		1	4,455.80	1	4,261.06	1	4,042.58	1	3,824.09	1	3,605.02	1	3,324.28	1	2,969.05
1/4		1/4		1/4		1/4	4,453.77	1/4	4,256.51	1/4	4,038.02	1/4	3,819.53	1/4	3,600.45	1/4	3,316.90	1/4	2,961.64
1/2		1/2		1/2		1/2	4,451.73	1/2	4,251.96	1/2	4,033.47	1/2	3,814.97	1/2	3,595.89	1/2	3,309.51	1/2	2,954.23
3/4		3/4		3/4		3/4	4,449.70	3/4	4,247.41	3/4	4,028.92	3/4	3,810.42	3/4	3,591.33	3/4	3,302.13	3/4	2,946.82
2		2		2		2	4,447.66	2	4,242.86	2	4,024.37	2	3,805.86	2	3,586.76	2	3,294.75	2	2,939.41
1/4		1/4		1/4		1/4	4,444.87	1/4	4,238.30	1/4	4,019.82	1/4	3,801.29	1/4	3,582.20	1/4	3,287.37	1/4	2,932.00
1/2		1/2		1/2		1/2	4,442.07	1/2	4,233.75	1/2	4,015.27	1/2	3,796.73	1/2	3,577.63	1/2	3,279.98	1/2	2,924.59
3/4		3/4		3/4		3/4	4,439.28	3/4	4,229.20	3/4	4,010.71	3/4	3,792.16	3/4	3,573.07	3/4	3,272.60	3/4	2,917.18
3		3		3		3	4,436.48	3	4,224.65	3	4,006.16	3	3,787.60	3	3,568.50	3	3,265.22	3	2,909.77
1/4		1/4		1/4		1/4	4,432.92	1/4	4,220.10	1/4	4,001.61	1/4	3,783.03	1/4	3,563.94	1/4	3,257.84	1/4	2,902.35
1/2		1/2		1/2		1/2	4,429.37	1/2	4,215.54	1/2	3,997.06	1/2	3,778.47	1/2	3,559.37	1/2	3,250.45	1/2	2,894.94
3/4		3/4		3/4		3/4	4,425.81	3/4	4,210.99	3/4	3,992.51	3/4	3,773.91	3/4	3,554.81	3/4	3,243.07	3/4	2,887.53
4		4		4		4	4,422.25	4	4,206.44	4	3,987.95	4	3,769.34	4	3,550.25	4	3,235.69	4	2,880.12
1/4		1/4		1/4		1/4	4,418.05	1/4	4,201.89	1/4	3,983.40	1/4	3,764.78	1/4	3,545.56	1/4	3,228.30	1/4	2,872.71
1/2		1/2		1/2		1/2	4,413.85	1/2	4,197.34	1/2	3,978.85	1/2	3,760.21	1/2	3,540.88	1/2	3,220.92	1/2	2,865.30
3/4		3/4		3/4		3/4	4,409.65	3/4	4,192.79	3/4	3,974.30	3/4	3,755.65	3/4	3,536.19	3/4	3,213.54	3/4	2,857.89
5		5		5		5	4,405.45	5	4,188.23	5	3,969.75	5	3,751.08	5	3,531.51	5	3,206.15	5	2,850.48
1/4		1/4		1/4		1/4	4,400.97	1/4	4,183.68	1/4	3,965.20	1/4	3,746.52	1/4	3,526.48	1/4	3,198.76	1/4	2,843.06
1/2		1/2		1/2		1/2	4,396.49	1/2	4,179.13	1/2	3,960.64	1/2	3,741.95	1/2	3,521.46	1/2	3,191.36	1/2	2,835.65
3/4		3/4		3/4		3/4	4,392.00	3/4	4,174.58	3/4	3,956.09	3/4	3,737.39	3/4	3,516.44	3/4	3,183.96	3/4	2,828.24
6		6		6		6	4,387.52	6	4,170.03	6	3,951.54	6	3,732.83	6	3,511.41	6	3,176.57	6	2,820.83
1/4		1/4		1/4		1/4	4,383.02	1/4	4,165.47	1/4	3,946.99	1/4	3,728.26	1/4	3,505.93	1/4	3,169.16	1/4	2,813.42
1/2		1/2		1/2		1/2	4,378.51	1/2	4,160.92	1/2	3,942.44	1/2	3,723.70	1/2	3,500.44	1/2	3,161.75	1/2	2,806.01
3/4		3/4		3/4		3/4	4,374.01	3/4	4,156.37	3/4	3,937.88	3/4	3,719.13	3/4	3,494.96	3/4	3,154.33	3/4	2,798.60
7		7		7		7	4,369.51	7	4,151.82	7	3,933.33	7	3,714.57	7	3,489.48	7	3,146.92	7	2,791.19
1/4		1/4		1/4		1/4	4,365.00	1/4	4,147.27	1/4	3,928.78	1/4	3,710.00	1/4	3,483.52	1/4	3,139.51	1/4	2,783.77
1/2		1/2		1/2		1/2	4,360.49	1/2	4,142.72	1/2	3,924.23	1/2	3,705.44	1/2	3,477.56	1/2	3,132.10	1/2	2,776.36
3/4		3/4		3/4		3/4	4,355.98	3/4	4,138.16	3/4	3,919.68	3/4	3,700.87	3/4	3,471.61	3/4	3,124.69	3/4	2,768.95
8		8		8		8	4,351.47	8	4,133.61	8	3,915.13	8	3,696.31	8	3,465.65	8	3,117.28	8	2,761.54
1/4		1/4		1/4		1/4	4,346.97	1/4	4,129.06	1/4	3,910.57	1/4	3,691.74	1/4	3,459.22	1/4	3,109.87	1/4	2,754.13
1/2		1/2		1/2		1/2	4,342.46	1/2	4,124.51	1/2	3,906.02	1/2	3,687.18	1/2	3,452.79	1/2	3,102.46	1/2	2,746.72
3/4		3/4		3/4		3/4	4,337.95	3/4	4,119.96	3/4	3,901.47	3/4	3,682.62	3/4	3,446.37	3/4	3,095.05	3/4	2,739.31
9		9		9		9	4,333.45	9	4,115.41	9	3,896.92	9	3,678.05	9	3,439.94	9	3,087.63	9	2,731.90
1/4		1/4		1/4		1/4	4,328.94	1/4	4,110.85	1/4	3,892.37	1/4	3,673.49	1/4	3,433.04	1/4	3,080.22	1/4	2,724.49
1/2		1/2		1/2		1/2	4,324.43	1/2	4,106.30	1/2	3,887.82	1/2	3,668.92	1/2	3,426.13	1/2	3,072.81	1/2	2,717.07
3/4		3/4		3/4		3/4	4,319.93	3/4	4,101.75	3/4	3,883.26	3/4	3,664.36	3/4	3,419.23	3/4	3,065.40	3/4	2,709.66
10		10		10		10	4,315.42	10	4,097.20	10	3,878.71	10	3,659.79	10	3,412.32	10	3,057.99	10	2,702.25
1/4		1/4		1/4		1/4	4,310.91	1/4	4,092.65	1/4	3,874.16	1/4	3,655.23	1/4	3,405.07	1/4	3,050.58	1/4	2,694.84
1/2		1/2		1/2		1/2	4,306.40	1/2	4,088.09	1/2	3,869.61	1/2	3,650.66	1/2	3,397.81	1/2	3,043.17	1/2	2,687.43
3/4		3/4		3/4		3/4	4,301.90	3/4	4,083.54	3/4	3,865.06	3/4	3,646.10	3/4	3,390.56	3/4	3,035.76	3/4	2,680.02
11		11		11		11	4,297.39	11	4,078.99	11	3,860.50	11	3,641.54	11	3,383.30	11	3,028.34	11	2,672.61
1/4		1/4		1/4		1/4	4,292.86	1/4	4,074.44	1/4	3,855.95	1/4	3,636.97	1/4	3,375.93	1/4	3,020.93	1/4	2,665.20
1/2		1/2		1/2		1/2	4,288.33	1/2	4,069.89	1/2	3,851.40	1/2	3,632.41	1/2	3,368.55	1/2	3,013.52	1/2	2,657.78
3/4		3/4		3/4		3/4	4,283.80	3/4	4,065.34	3/4	3,846.85	3/4	3,627.84	3/4	3,361.18	3/4	3,006.11	3/4	2,650.37

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME.
 GAUGE POINT: (10" HATCH) LOCATED 3'-00" OFF CENTERLINE AND 82'-08" 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 10" HATCH GAUGE HEIGHT 17'-07"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,642.96	0	2,287.01	0	1,931.38	0	1,575.68	0	1,219.55	0	874.75	0	520.32	0	163.75	0			
1/4	2,635.55	1/4	2,279.59	1/4	1,923.98	1/4	1,568.26	1/4	1,212.14	1/4	867.61	1/4	512.90	1/4	156.32	1/4			
1/2	2,628.14	1/2	2,272.17	1/2	1,916.57	1/2	1,560.84	1/2	1,204.72	1/2	860.47	1/2	505.47	1/2	148.88	1/2			
3/4	2,620.73	3/4	2,264.75	3/4	1,909.17	3/4	1,553.42	3/4	1,197.30	3/4	853.33	3/4	498.05	3/4	141.45	3/4			
1	2,613.32	1	2,257.33	1	1,901.77	1	1,546.00	1	1,189.88	1	846.19	1	490.63	1	134.01	1			
1/4	2,605.90	1/4	2,249.92	1/4	1,894.36	1/4	1,538.58	1/4	1,182.56	1/4	838.93	1/4	483.20	1/4	126.58	1/4			
1/2	2,598.49	1/2	2,242.50	1/2	1,886.96	1/2	1,531.16	1/2	1,175.25	1/2	831.68	1/2	475.78	1/2	119.15	1/2			
3/4	2,591.08	3/4	2,235.09	3/4	1,879.56	3/4	1,523.74	3/4	1,167.93	3/4	824.42	3/4	468.35	3/4	111.72	3/4			
2	2,583.67	2	2,227.67	2	1,872.16	2	1,516.32	2	1,160.61	2	817.16	2	460.93	2	104.29	2			
1/4	2,576.25	1/4	2,220.25	1/4	1,864.75	1/4	1,508.90	1/4	1,153.41	1/4	809.77	1/4	453.50	1/4	96.88	1/4			
1/2	2,568.84	1/2	2,212.84	1/2	1,857.35	1/2	1,501.48	1/2	1,146.20	1/2	802.38	1/2	446.08	1/2	89.47	1/2			
3/4	2,561.43	3/4	2,205.42	3/4	1,849.95	3/4	1,494.06	3/4	1,139.00	3/4	794.99	3/4	438.66	3/4	82.05	3/4			
3	2,554.02	3	2,198.01	3	1,842.54	3	1,486.65	3	1,131.79	3	787.59	3	431.23	3	74.64	3			
1/4	2,546.60	1/4	2,190.59	1/4	1,835.14	1/4	1,479.23	1/4	1,124.59	1/4	780.17	1/4	423.81	1/4	67.69	1/4			
1/2	2,539.19	1/2	2,183.17	1/2	1,827.74	1/2	1,471.81	1/2	1,117.39	1/2	772.74	1/2	416.38	1/2	60.74	1/2			
3/4	2,531.78	3/4	2,175.76	3/4	1,820.34	3/4	1,464.39	3/4	1,110.20	3/4	765.32	3/4	408.96	3/4	53.78	3/4			
4	2,524.37	4	2,168.34	4	1,812.93	4	1,456.97	4	1,103.00	4	757.90	4	401.53	4	46.83	4			
1/4	2,516.95	1/4	2,160.93	1/4	1,805.53	1/4	1,449.55	1/4	1,095.83	1/4	750.47	1/4	394.11	1/4	41.26	1/4			
1/2	2,509.54	1/2	2,153.51	1/2	1,798.13	1/2	1,442.13	1/2	1,088.67	1/2	743.05	1/2	386.69	1/2	35.68	1/2			
3/4	2,502.13	3/4	2,146.10	3/4	1,790.72	3/4	1,434.71	3/4	1,081.51	3/4	735.62	3/4	379.26	3/4	30.10	3/4			
5	2,494.72	5	2,138.68	5	1,783.32	5	1,427.29	5	1,074.34	5	728.20	5	371.84	5	24.53	5			
1/4	2,487.30	1/4	2,131.26	1/4	1,775.92	1/4	1,419.87	1/4	1,067.21	1/4	720.78	1/4	364.41	1/4	20.81	1/4			
1/2	2,479.89	1/2	2,123.85	1/2	1,768.52	1/2	1,412.45	1/2	1,060.09	1/2	713.35	1/2	356.99	1/2	17.09	1/2			
3/4	2,472.48	3/4	2,116.43	3/4	1,761.11	3/4	1,405.03	3/4	1,052.96	3/4	705.93	3/4	349.57	3/4	13.37	3/4			
6	2,465.07	6	2,109.02	6	1,753.71	6	1,397.62	6	1,045.83	6	698.50	6	342.14	6	9.66	6			
1/4	2,457.65	1/4	2,101.61	1/4	1,746.30	1/4	1,390.20	1/4	1,038.70	1/4	691.08	1/4	334.72	1/4	7.80	1/4			
1/2	2,450.24	1/2	2,094.20	1/2	1,738.88	1/2	1,382.78	1/2	1,031.57	1/2	683.65	1/2	327.29	1/2	5.94	1/2			
3/4	2,442.83	3/4	2,086.80	3/4	1,731.47	3/4	1,375.36	3/4	1,024.44	3/4	676.23	3/4	319.87	3/4	4.08	3/4			
7	2,435.42	7	2,079.39	7	1,724.06	7	1,367.94	7	1,017.31	7	668.81	7	312.44	7	2.22	7			
1/4	2,428.00	1/4	2,072.00	1/4	1,716.64	1/4	1,360.52	1/4	1,010.19	1/4	661.38	1/4	305.01	1/4		1/4			
1/2	2,420.58	1/2	2,064.60	1/2	1,709.22	1/2	1,353.10	1/2	1,003.06	1/2	653.96	1/2	297.58	1/2		1/2			
3/4	2,413.17	3/4	2,057.21	3/4	1,701.80	3/4	1,345.68	3/4	995.93	3/4	646.53	3/4	290.15	3/4		3/4			
8	2,405.75	8	2,049.81	8	1,694.38	8	1,338.26	8	988.80	8	639.11	8	282.72	8		8			
1/4	2,398.33	1/4	2,042.41	1/4	1,686.96	1/4	1,330.84	1/4	981.67	1/4	631.68	1/4	275.29	1/4		1/4			
1/2	2,390.91	1/2	2,035.01	1/2	1,679.54	1/2	1,323.42	1/2	974.54	1/2	624.26	1/2	267.85	1/2		1/2			
3/4	2,383.49	3/4	2,027.61	3/4	1,672.13	3/4	1,316.00	3/4	967.42	3/4	616.84	3/4	260.42	3/4		3/4			
9	2,376.06	9	2,020.21	9	1,664.71	9	1,308.58	9	960.29	9	609.41	9	252.98	9		9			
1/4	2,368.64	1/4	2,012.81	1/4	1,657.29	1/4	1,301.17	1/4	953.16	1/4	601.99	1/4	245.54	1/4		1/4			
1/2	2,361.22	1/2	2,005.41	1/2	1,649.87	1/2	1,293.75	1/2	946.03	1/2	594.56	1/2	238.11	1/2		1/2			
3/4	2,353.80	3/4	1,998.01	3/4	1,642.45	3/4	1,286.33	3/4	938.90	3/4	587.14	3/4	230.67	3/4		3/4			
10	2,346.38	10	1,990.60	10	1,635.03	10	1,278.91	10	931.77	10	579.72	10	223.24	10		10			
1/4	2,338.96	1/4	1,983.20	1/4	1,627.61	1/4	1,271.49	1/4	924.65	1/4	572.29	1/4	215.80	1/4		1/4			
1/2	2,331.54	1/2	1,975.80	1/2	1,620.19	1/2	1,264.07	1/2	917.52	1/2	564.87	1/2	208.37	1/2		1/2			
3/4	2,324.11	3/4	1,968.39	3/4	1,612.77	3/4	1,256.65	3/4	910.39	3/4	557.44	3/4	200.93	3/4		3/4			
11	2,316.69	11	1,960.99	11	1,605.35	11	1,249.23	11	903.26	11	550.02	11	193.49	11		11			
1/4	2,309.27	1/4	1,953.59	1/4	1,597.93	1/4	1,241.81	1/4	896.13	1/4	542.59	1/4	186.06	1/4		1/4			
1/2	2,301.85	1/2	1,946.18	1/2	1,590.51	1/2	1,234.39	1/2	889.00	1/2	535.17	1/2	178.62	1/2		1/2			
3/4	2,294.43	3/4	1,938.78	3/4	1,583.10	3/4	1,226.97	3/4	881.88	3/4	527.75	3/4	171.19	3/4		3/4			

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

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2019

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "E2MS 313"

3 STBD

ULLAGE TABLE

10" HATCH

GAUGE HEIGHT 17'-07"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	4,479.65	0	4,298.07	0	4,079.62	0	3,861.17	0	3,642.19	0	3,372.54	0	3,016.86
1/4		1/4		1/4		1/4	4,478.38	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
1/2		1/2		1/2		1/2	4,477.10	1/2	4,288.97	1/2	4,070.52	1/2	3,852.07	1/2	3,633.07	1/2	3,359.75	1/2	3,002.01
3/4		3/4		3/4		3/4	4,475.83	3/4	4,284.41	3/4	4,065.97	3/4	3,847.52	3/4	3,628.50	3/4	3,350.36	3/4	2,994.59
1		1		1		1	4,474.56	1	4,279.86	1	4,061.42	1	3,842.97	1	3,623.94	1	3,342.97	1	2,987.16
1/4		1/4		1/4		1/4	4,472.52	1/4	4,275.31	1/4	4,056.86	1/4	3,838.41	1/4	3,619.38	1/4	3,335.57	1/4	2,979.74
1/2		1/2		1/2		1/2	4,470.49	1/2	4,270.76	1/2	4,052.31	1/2	3,833.85	1/2	3,614.81	1/2	3,328.18	1/2	2,972.32
3/4		3/4		3/4		3/4	4,468.45	3/4	4,266.21	3/4	4,047.76	3/4	3,829.30	3/4	3,610.25	3/4	3,320.78	3/4	2,964.89
2		2		2		2	4,466.42	2	4,261.66	2	4,043.21	2	3,824.74	2	3,605.68	2	3,313.39	2	2,957.47
1/4		1/4		1/4		1/4	4,463.62	1/4	4,257.11	1/4	4,038.66	1/4	3,820.18	1/4	3,601.12	1/4	3,305.99	1/4	2,950.05
1/2		1/2		1/2		1/2	4,460.83	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
3/4		3/4		3/4		3/4	4,458.03	3/4	4,248.01	3/4	4,029.56	3/4	3,811.05	3/4	3,591.99	3/4	3,291.20	3/4	2,935.20
3		3		3		3	4,455.24	3	4,243.46	3	4,025.01	3	3,806.49	3	3,587.43	3	3,283.81	3	2,927.78
1/4		1/4		1/4		1/4	4,451.68	1/4	4,238.90	1/4	4,020.46	1/4	3,801.92	1/4	3,582.87	1/4	3,276.41	1/4	2,920.36
1/2		1/2		1/2		1/2	4,448.12	1/2	4,234.35	1/2	4,015.91	1/2	3,797.36	1/2	3,578.30	1/2	3,269.02	1/2	2,912.93
3/4		3/4		3/4		3/4	4,444.57	3/4	4,229.80	3/4	4,011.35	3/4	3,792.80	3/4	3,573.74	3/4	3,261.63	3/4	2,905.51
4		4		4		4	4,441.01	4	4,225.25	4	4,006.80	4	3,788.23	4	3,569.18	4	3,254.23	4	2,898.09
1/4		1/4		1/4		1/4	4,436.81	1/4	4,220.70	1/4	4,002.25	1/4	3,783.67	1/4	3,564.49	1/4	3,246.84	1/4	2,890.66
1/2		1/2		1/2		1/2	4,432.61	1/2	4,216.15	1/2	3,997.70	1/2	3,779.11	1/2	3,559.81	1/2	3,239.44	1/2	2,883.24
3/4		3/4		3/4		3/4	4,428.41	3/4	4,211.60	3/4	3,993.15	3/4	3,774.54	3/4	3,555.13	3/4	3,232.05	3/4	2,875.82
5		5		5		5	4,424.21	5	4,207.05	5	3,988.60	5	3,769.98	5	3,550.44	5	3,224.65	5	2,868.39
1/4		1/4		1/4		1/4	4,419.73	1/4	4,202.50	1/4	3,984.05	1/4	3,765.41	1/4	3,545.42	1/4	3,217.24	1/4	2,860.97
1/2		1/2		1/2		1/2	4,415.25	1/2	4,197.95	1/2	3,979.50	1/2	3,760.85	1/2	3,540.40	1/2	3,209.83	1/2	2,853.55
3/4		3/4		3/4		3/4	4,410.77	3/4	4,193.39	3/4	3,974.95	3/4	3,756.29	3/4	3,535.37	3/4	3,202.42	3/4	2,846.12
6		6		6		6	4,406.29	6	4,188.84	6	3,970.40	6	3,751.72	6	3,530.35	6	3,195.01	6	2,838.70
1/4		1/4		1/4		1/4	4,401.78	1/4	4,184.29	1/4	3,965.84	1/4	3,747.16	1/4	3,524.87	1/4	3,187.59	1/4	2,831.28
1/2		1/2		1/2		1/2	4,397.28	1/2	4,179.74	1/2	3,961.29	1/2	3,742.60	1/2	3,519.39	1/2	3,180.17	1/2	2,823.85
3/4		3/4		3/4		3/4	4,392.78	3/4	4,175.19	3/4	3,956.74	3/4	3,738.03	3/4	3,513.90	3/4	3,172.74	3/4	2,816.43
7		7		7		7	4,388.28	7	4,170.64	7	3,952.19	7	3,733.47	7	3,508.42	7	3,165.32	7	2,809.01
1/4		1/4		1/4		1/4	4,383.77	1/4	4,166.09	1/4	3,947.64	1/4	3,728.90	1/4	3,502.46	1/4	3,157.90	1/4	2,801.58
1/2		1/2		1/2		1/2	4,379.27	1/2	4,161.54	1/2	3,943.09	1/2	3,724.34	1/2	3,496.50	1/2	3,150.47	1/2	2,794.16
3/4		3/4		3/4		3/4	4,374.76	3/4	4,156.99	3/4	3,938.54	3/4	3,719.78	3/4	3,490.54	3/4	3,143.05	3/4	2,786.74
8		8		8		8	4,370.25	8	4,152.44	8	3,933.99	8	3,715.21	8	3,484.58	8	3,135.63	8	2,779.31
1/4		1/4		1/4		1/4	4,365.75	1/4	4,147.88	1/4	3,929.44	1/4	3,710.65	1/4	3,478.14	1/4	3,128.21	1/4	2,771.89
1/2		1/2		1/2		1/2	4,361.24	1/2	4,143.33	1/2	3,924.89	1/2	3,706.09	1/2	3,471.70	1/2	3,120.78	1/2	2,764.47
3/4		3/4		3/4		3/4	4,356.73	3/4	4,138.78	3/4	3,920.33	3/4	3,701.52	3/4	3,465.26	3/4	3,113.36	3/4	2,757.05
9		9		9		9	4,352.23	9	4,134.23	9	3,915.78	9	3,696.96	9	3,458.82	9	3,105.94	9	2,749.62
1/4		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	3,451.91	1/4	3,098.51	1/4	2,742.20
1/2		1/2		1/2		1/2	4,343.21	1/2	4,125.13	1/2	3,906.68	1/2	3,687.83	1/2	3,444.99	1/2	3,091.09	1/2	2,734.78
3/4		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	3,438.07	3/4	3,083.67	3/4	2,727.35
10		10		10		10	4,334.20	10	4,116.03	10	3,897.58	10	3,678.70	10	3,431.16	10	3,076.24	10	2,719.93
1/4		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	3,423.89	1/4	3,068.82	1/4	2,712.51
1/2		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	3,416.62	1/2	3,061.40	1/2	2,705.08
3/4		3/4		3/4		3/4	4,320.69	3/4	4,102.37	3/4	3,883.93	3/4	3,665.01	3/4	3,409.35	3/4	3,053.97	3/4	2,697.66
11		11		11		11	4,316.18	11	4,097.82	11	3,879.38	11	3,660.45	11	3,402.08	11	3,046.55	11	2,690.24
1/4		1/4		1/4		1/4	4,311.65	1/4	4,093.27	1/4	3,874.82	1/4	3,655.89	1/4	3,394.70	1/4	3,039.13	1/4	2,682.81
1/2		1/2		1/2		1/2	4,307.12	1/2	4,088.72	1/2	3,870.27	1/2	3,651.32	1/2	3,387.31	1/2	3,031.70	1/2	2,675.39
3/4		3/4		3/4		3/4	4,302.60	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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME.

GAUGE POINT: (10" HATCH) LOCATED 3'-00" OFF CENTERLINE AND 82'-08" 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

10" HATCH

GAUGE HEIGHT 17'-07"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,660.54	0	2,304.01	0	1,947.21	0	1,590.40	0	1,233.59	0	877.26	0	520.49	0	163.70	0		0	
1/4	2,653.12	1/4	2,296.58	1/4	1,939.77	1/4	1,582.97	1/4	1,226.16	1/4	869.83	1/4	513.06	1/4	156.26	1/4		1/4	
1/2	2,645.70	1/2	2,289.15	1/2	1,932.34	1/2	1,575.53	1/2	1,218.72	1/2	862.40	1/2	505.62	1/2	148.83	1/2		1/2	
3/4	2,638.27	3/4	2,281.71	3/4	1,924.91	3/4	1,568.10	3/4	1,211.29	3/4	854.98	3/4	498.19	3/4	141.40	3/4		3/4	
1	2,630.85	1	2,274.28	1	1,917.47	1	1,560.66	1	1,203.86	1	847.55	1	490.76	1	133.96	1		1	
1/4	2,623.42	1/4	2,266.85	1/4	1,910.04	1/4	1,553.23	1/4	1,196.42	1/4	840.12	1/4	483.32	1/4	126.54	1/4		1/4	
1/2	2,616.00	1/2	2,259.41	1/2	1,902.61	1/2	1,545.80	1/2	1,188.99	1/2	832.68	1/2	475.89	1/2	119.11	1/2		1/2	
3/4	2,608.57	3/4	2,251.98	3/4	1,895.17	3/4	1,538.36	3/4	1,181.56	3/4	825.25	3/4	468.46	3/4	111.68	3/4		3/4	
2	2,601.15	2	2,244.55	2	1,887.74	2	1,530.93	2	1,174.12	2	817.82	2	461.02	2	104.26	2		2	
1/4	2,593.73	1/4	2,237.11	1/4	1,880.31	1/4	1,523.50	1/4	1,166.69	1/4	810.38	1/4	453.59	1/4	96.85	1/4		1/4	
1/2	2,586.30	1/2	2,229.68	1/2	1,872.87	1/2	1,516.06	1/2	1,159.26	1/2	802.95	1/2	446.16	1/2	89.44	1/2		1/2	
3/4	2,578.88	3/4	2,222.25	3/4	1,865.44	3/4	1,508.63	3/4	1,151.83	3/4	795.52	3/4	438.72	3/4	82.03	3/4		3/4	
3	2,571.45	3	2,214.81	3	1,858.00	3	1,501.20	3	1,144.40	3	788.08	3	431.29	3	74.62	3		3	
1/4	2,564.03	1/4	2,207.38	1/4	1,850.57	1/4	1,493.76	1/4	1,136.97	1/4	780.65	1/4	423.86	1/4	67.67	1/4		1/4	
1/2	2,556.60	1/2	2,199.95	1/2	1,843.14	1/2	1,486.33	1/2	1,129.54	1/2	773.22	1/2	416.42	1/2	60.72	1/2		1/2	
3/4	2,549.18	3/4	2,192.51	3/4	1,835.70	3/4	1,478.90	3/4	1,122.12	3/4	765.78	3/4	408.99	3/4	53.77	3/4		3/4	
4	2,541.75	4	2,185.08	4	1,828.27	4	1,471.46	4	1,114.69	4	758.35	4	401.56	4	46.82	4		4	
1/4	2,534.33	1/4	2,177.65	1/4	1,820.84	1/4	1,464.03	1/4	1,107.27	1/4	750.92	1/4	394.12	1/4	41.24	1/4		1/4	
1/2	2,526.91	1/2	2,170.21	1/2	1,813.40	1/2	1,456.60	1/2	1,099.84	1/2	743.48	1/2	386.69	1/2	35.67	1/2		1/2	
3/4	2,519.48	3/4	2,162.78	3/4	1,805.97	3/4	1,449.16	3/4	1,092.42	3/4	736.05	3/4	379.26	3/4	30.09	3/4		3/4	
5	2,512.06	5	2,155.34	5	1,798.54	5	1,441.73	5	1,085.00	5	728.62	5	371.82	5	24.52	5		5	
1/4	2,504.63	1/4	2,147.91	1/4	1,791.10	1/4	1,434.30	1/4	1,077.58	1/4	721.19	1/4	364.39	1/4	20.80	1/4		1/4	
1/2	2,497.21	1/2	2,140.48	1/2	1,783.67	1/2	1,426.86	1/2	1,070.16	1/2	713.75	1/2	356.96	1/2	17.09	1/2		1/2	
3/4	2,489.78	3/4	2,133.04	3/4	1,776.24	3/4	1,419.43	3/4	1,062.74	3/4	706.32	3/4	349.53	3/4	13.37	3/4		3/4	
6	2,482.36	6	2,125.61	6	1,768.80	6	1,411.99	6	1,055.32	6	698.89	6	342.09	6	9.65	6		6	
1/4	2,474.94	1/4	2,118.18	1/4	1,761.37	1/4	1,404.56	1/4	1,047.90	1/4	691.45	1/4	334.66	1/4	7.80	1/4		1/4	
1/2	2,467.51	1/2	2,110.74	1/2	1,753.94	1/2	1,397.13	1/2	1,040.48	1/2	684.02	1/2	327.23	1/2	5.94	1/2		1/2	
3/4	2,460.09	3/4	2,103.31	3/4	1,746.50	3/4	1,389.69	3/4	1,033.06	3/4	676.59	3/4	319.79	3/4	4.08	3/4		3/4	
7	2,452.66	7	2,095.88	7	1,739.07	7	1,382.26	7	1,025.64	7	669.15	7	312.36	7	2.22	7		7	
1/4	2,445.23	1/4	2,088.44	1/4	1,731.64	1/4	1,374.83	1/4	1,018.22	1/4	661.72	1/4	304.93	1/4		1/4		1/4	
1/2	2,437.81	1/2	2,081.01	1/2	1,724.20	1/2	1,367.39	1/2	1,010.80	1/2	654.29	1/2	297.49	1/2		1/2		1/2	
3/4	2,430.38	3/4	2,073.58	3/4	1,716.77	3/4	1,359.96	3/4	1,003.39	3/4	646.85	3/4	290.06	3/4		3/4		3/4	
8	2,422.95	8	2,066.14	8	1,709.33	8	1,352.53	8	995.97	8	639.42	8	282.63	8		8		8	
1/4	2,415.52	1/4	2,058.71	1/4	1,701.90	1/4	1,345.09	1/4	988.55	1/4	631.99	1/4	275.19	1/4		1/4		1/4	
1/2	2,408.08	1/2	2,051.28	1/2	1,694.47	1/2	1,337.66	1/2	981.13	1/2	624.55	1/2	267.76	1/2		1/2		1/2	
3/4	2,400.65	3/4	2,043.84	3/4	1,687.03	3/4	1,330.23	3/4	973.71	3/4	617.12	3/4	260.33	3/4		3/4		3/4	
9	2,393.22	9	2,036.41	9	1,679.60	9	1,322.79	9	966.29	9	609.69	9	252.89	9		9		9	
1/4	2,385.78	1/4	2,028.98	1/4	1,672.17	1/4	1,315.36	1/4	958.87	1/4	602.25	1/4	245.46	1/4		1/4		1/4	
1/2	2,378.35	1/2	2,021.54	1/2	1,664.73	1/2	1,307.93	1/2	951.45	1/2	594.82	1/2	238.03	1/2		1/2		1/2	
3/4	2,370.92	3/4	2,014.11	3/4	1,657.30	3/4	1,300.49	3/4	944.03	3/4	587.39	3/4	230.59	3/4		3/4		3/4	
10	2,363.48	10	2,006.67	10	1,649.87	10	1,293.06	10	936.61	10	579.95	10	223.16	10		10		10	
1/4	2,356.05	1/4	1,999.24	1/4	1,642.43	1/4	1,285.63	1/4	929.19	1/4	572.52	1/4	215.73	1/4		1/4		1/4	
1/2	2,348.62	1/2	1,991.81	1/2	1,635.00	1/2	1,278.19	1/2	921.77	1/2	565.09	1/2	208.29	1/2		1/2		1/2	
3/4	2,341.18	3/4	1,984.37	3/4	1,627.57	3/4	1,270.76	3/4	914.35	3/4	557.65	3/4	200.86	3/4		3/4		3/4	
11	2,333.75	11	1,976.94	11	1,620.13	11	1,263.32	11	906.94	11	550.22	11	193.43	11		11		11	
1/4	2,326.32	1/4	1,969.51	1/4	1,612.70	1/4	1,255.89	1/4	899.52	1/4	542.79	1/4	185.99	1/4		1/4		1/4	
1/2	2,318.88	1/2	1,962.07	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	
3/4	2,311.45	3/4	1,954.64	3/4	1,597.83	3/4	1,241.02	3/4	884.68	3/4	527.92	3/4	171.13	3/4		3/4		3/4	

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

CANCELS AND SUPERCEDES
 ALL PRIOR TO 01/2019

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "E2MS 313"

ULLAGE (HERMETIC)

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	00-0/8	- 00-0/8	00-0/8	- 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 GAUGE HEIGHT 15'-09"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	4,850.37	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
<http://www.pmacorp.net>



BARGE "E2MS 313"

1 PORT

ULLAGE TABLE HERMETIC GAUGE HEIGHT 15'-09"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,991.87	0	1,634.06	0	1,276.24	0	919.82	0	563.17	0	222.87	0	0	0	0	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	1/4	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	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	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	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	1/4	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	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	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	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	1/4	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	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	3/4	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	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	1/4	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	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	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	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	1/4	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	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	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	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	1/4	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	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	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	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	1/4	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	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	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	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	1/4	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	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	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	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	1/4	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	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	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	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	14.27	1/4	1/4	1/4	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	13.27	1/2	1/2	1/2	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	12.27	3/4	3/4	3/4	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	11.27	10	10	10	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	10.27	1/4	1/4	1/4	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	9.27	1/2	1/2	1/2	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	8.27	3/4	3/4	3/4	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	7.27	11	11	11	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	6.27	1/4	1/4	1/4	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	5.27	1/2	1/2	1/2	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	4.27	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/11/2019 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

GAUGE HEIGHT 15'-08 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	4,842.46	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

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	1,985.41	0	1,627.79	0	1,270.16	0	912.82	0	555.41	0	216.20	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	

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

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2019

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "E2MS 313"

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

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.		
0		0		0	4,934.02	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		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		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		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		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		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		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		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		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		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		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		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		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		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		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		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		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		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		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		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		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		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 GAUGE HEIGHT 15'-09 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,069.54	0	1,711.03	0	1,352.52	0	1,001.51	0	649.96	0	291.45	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	

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

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2019

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "E2MS 313"

2 STBD

ULLAGE TABLE

HERMETIC

GAUGE HEIGHT 15'-09 1/2"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.		
0		0		0	4,942.05	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		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		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		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		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		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		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		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		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		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		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		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		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		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		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		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		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		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		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		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		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		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		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

GAUGE HEIGHT 15'-09 1/2"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,076.95	0	1,718.28	0	1,359.61	0	1,001.18	0	642.77	0	284.11	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	

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

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2019

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "E2MS 313"

3 PORT ULLAGE TABLE

HERMETIC

GAUGE HEIGHT 15'-08 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	4,328.94	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 GAUGE HEIGHT 15'-08 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,012.81	0	1,657.29	0	1,301.17	0	953.17	0	601.99	0	245.55	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	

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

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2019

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "E2MS 313"

3 STBD ULLAGE TABLE

HERMETIC

GAUGE HEIGHT 15'-08 1/2"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	4,352.23	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		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	2,229.68
3/4		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	2,222.25
6		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	2,214.82
1/4		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	2,207.38
1/2		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	2,199.95
3/4		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	2,192.51
7		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	2,185.08
1/4		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	2,177.65
1/2		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	2,170.21
3/4		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	2,162.78
8		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	2,155.35
1/4		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	2,147.91
1/2		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	2,140.48
3/4		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	2,133.05
9		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	2,125.61
1/4		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	2,118.18
1/2		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	2,110.75
3/4		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	2,103.31
10		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	2,095.88
1/4		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	2,088.45
1/2		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	2,081.01
3/4		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	2,073.58
11		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	2,066.15
1/4		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	2,058.71
1/2		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	2,051.28
3/4		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	2,043.84

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

GAUGE HEIGHT 15'-08 1/2"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,036.41	0	1,679.60	0	1,322.80	0	966.29	0	609.70	0	252.90	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	

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

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2019

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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