



BARGE "EMS 387"

INNAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	- 00-1/4	00-1/4	- 00-1/2	00-1/2	- 00-3/4	00-3/4	- 01-1/8	01-1/8	- 01-3/8	01-3/8	- 01-5/8	01-5/8
1 STBD	- 00-1/4	00-1/4	- 00-1/2	00-1/2	- 00-3/4	00-3/4	- 01-1/8	01-1/8	- 01-3/8	01-3/8	- 01-5/8	01-5/8
2 PORT	- 00-1/4	00-1/4	- 00-1/2	00-1/2	- 00-3/4	00-3/4	- 01-0/8	01-0/8	- 01-1/4	01-1/4	- 01-1/2	01-1/2
2 STBD	- 00-1/4	00-1/4	- 00-1/2	00-1/2	- 00-3/4	00-3/4	- 01-0/8	01-0/8	- 01-1/4	01-1/4	- 01-1/2	01-1/2
3 PORT	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-5/8	00-5/8
3 STBD	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-5/8	00-5/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 1 PORT IS 00-1/2"
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED INNAGE IS 4'-00 1/2"

LENGTH BETWEEN DRAFT MARKS: 236'-00"

November 25, 2013

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "EMS 387"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,178.23	0	3,509.80	0	3,829.36	0	4,128.31	0		0		0		0		0		0	
1/4	3,185.14	1/4	3,516.65	1/4	3,835.79	1/4	4,134.29	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,192.05	1/2	3,523.50	1/2	3,842.22	1/2	4,140.28	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,198.96	3/4	3,530.34	3/4	3,848.66	3/4	4,146.26	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,205.87	1	3,537.19	1	3,855.09	1	4,152.24	1		1		1		1		1		1	
1/4	3,212.78	1/4	3,544.00	1/4	3,861.49	1/4	4,158.19	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,219.69	1/2	3,550.81	1/2	3,867.89	1/2	4,164.13	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,226.60	3/4	3,557.62	3/4	3,874.29	3/4	4,170.08	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,233.51	2	3,564.44	2	3,880.69	2	4,176.03	2		2		2		2		2		2	
1/4	3,240.42	1/4	3,571.21	1/4	3,887.05	1/4	4,181.94	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,247.33	1/2	3,577.99	1/2	3,893.42	1/2	4,187.85	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,254.25	3/4	3,584.77	3/4	3,899.79	3/4	4,193.77	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,261.16	3	3,591.55	3	3,906.15	3	4,199.68	3		3		3		3		3		3	
1/4	3,268.07	1/4	3,598.29	1/4	3,912.48	1/4	4,205.56	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,274.98	1/2	3,605.03	1/2	3,918.81	1/2	4,211.44	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,281.89	3/4	3,611.78	3/4	3,925.14	3/4	4,217.31	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,288.80	4	3,618.52	4	3,931.47	4	4,223.19	4		4		4		4		4		4	
1/4	3,295.71	1/4	3,625.23	1/4	3,937.77	1/4	4,229.56	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,302.62	1/2	3,631.94	1/2	3,944.07	1/2	4,235.92	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,309.53	3/4	3,638.65	3/4	3,950.36	3/4	4,242.29	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,316.44	5	3,645.36	5	3,956.66	5	4,248.66	5		5		5		5		5		5	
1/4	3,323.35	1/4	3,652.03	1/4	3,962.92	1/4	4,255.53	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,330.26	1/2	3,658.70	1/2	3,969.18	1/2	4,262.40	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,337.18	3/4	3,665.38	3/4	3,975.45	3/4	4,269.27	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,344.09	6	3,672.05	6	3,981.71	6	4,276.14	6		6		6		6		6		6	
1/4	3,351.00	1/4	3,678.69	1/4	3,987.94	1/4	4,283.01	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,357.91	1/2	3,685.33	1/2	3,994.16	1/2	4,289.88	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,364.82	3/4	3,691.97	3/4	4,000.39	3/4	4,296.75	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,371.73	7	3,698.61	7	4,006.62	7	4,303.62	7		7		7		7		7		7	
1/4	3,378.64	1/4	3,705.22	1/4	4,012.77	1/4	4,310.42	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,385.55	1/2	3,711.83	1/2	4,018.93	1/2	4,317.22	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,392.46	3/4	3,718.43	3/4	4,025.08	3/4	4,324.01	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,399.37	8	3,725.04	8	4,031.23	8	4,330.81	8		8		8		8		8		8	
1/4	3,406.28	1/4	3,731.61	1/4	4,037.35	1/4	4,336.98	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,413.19	1/2	3,738.18	1/2	4,043.47	1/2	4,343.15	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,420.10	3/4	3,744.75	3/4	4,049.59	3/4	4,349.31	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,427.02	9	3,751.32	9	4,055.71	9	4,355.48	9		9		9		9		9		9	
1/4	3,433.93	1/4	3,757.86	1/4	4,061.79	1/4	4,360.39	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,440.84	1/2	3,764.40	1/2	4,067.88	1/2	4,365.31	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,447.75	3/4	3,770.93	3/4	4,073.96	3/4	4,370.22	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,454.66	10	3,777.47	10	4,080.05	10		10		10		10		10		10		10	
1/4	3,461.56	1/4	3,783.97	1/4	4,086.10	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,468.47	1/2	3,790.48	1/2	4,092.15	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,475.38	3/4	3,796.98	3/4	4,098.20	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,482.28	11	3,803.48	11	4,104.25	11		11		11		11		11		11		11	
1/4	3,489.16	1/4	3,809.95	1/4	4,110.26	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,496.04	1/2	3,816.42	1/2	4,116.28	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,502.92	3/4	3,822.89	3/4	4,122.30	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/25/2013 CL
CALCULATED: 11/25/2013 CL
PRINTED: 11/25/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2013

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "EMS 387"

**1 STBD
INNAGE TABLE**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10"

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	3,181.22	0	3,512.96	0	3,832.67	0	4,131.78	0		0		0		0		0		0	
1/4	3,188.13	1/4	3,519.81	1/4	3,839.11	1/4	4,137.76	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,195.05	1/2	3,526.66	1/2	3,845.55	1/2	4,143.75	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,201.96	3/4	3,533.51	3/4	3,851.98	3/4	4,149.73	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,208.88	1	3,540.36	1	3,858.42	1	4,155.71	1		1		1		1		1		1	
1/4	3,215.79	1/4	3,547.17	1/4	3,864.82	1/4	4,161.66	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,222.70	1/2	3,553.99	1/2	3,871.23	1/2	4,167.61	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,229.62	3/4	3,560.80	3/4	3,877.63	3/4	4,173.56	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,236.53	2	3,567.62	2	3,884.03	2	4,179.51	2		2		2		2		2		2	
1/4	3,243.45	1/4	3,574.40	1/4	3,890.40	1/4	4,185.43	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,250.36	1/2	3,581.18	1/2	3,896.77	1/2	4,191.35	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,257.28	3/4	3,587.96	3/4	3,903.14	3/4	4,197.26	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,264.19	3	3,594.74	3	3,909.51	3	4,203.18	3		3		3		3		3		3	
1/4	3,271.10	1/4	3,601.49	1/4	3,915.84	1/4	4,209.06	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,278.02	1/2	3,608.24	1/2	3,922.17	1/2	4,214.94	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,284.93	3/4	3,614.98	3/4	3,928.51	3/4	4,220.82	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,291.85	4	3,621.73	4	3,934.84	4	4,226.70	4		4		4		4		4		4	
1/4	3,298.76	1/4	3,628.44	1/4	3,941.14	1/4	4,233.07	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,305.68	1/2	3,635.15	1/2	3,947.44	1/2	4,239.44	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,312.59	3/4	3,641.87	3/4	3,953.74	3/4	4,245.81	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,319.50	5	3,648.58	5	3,960.04	5	4,252.18	5		5		5		5		5		5	
1/4	3,326.42	1/4	3,655.26	1/4	3,966.31	1/4	4,259.05	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,333.33	1/2	3,661.93	1/2	3,972.57	1/2	4,265.93	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,340.25	3/4	3,668.61	3/4	3,978.84	3/4	4,272.80	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,347.16	6	3,675.29	6	3,985.10	6	4,279.68	6		6		6		6		6		6	
1/4	3,354.08	1/4	3,681.93	1/4	3,991.33	1/4	4,286.55	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,360.99	1/2	3,688.58	1/2	3,997.56	1/2	4,293.43	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,367.90	3/4	3,695.22	3/4	4,003.79	3/4	4,300.30	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,374.82	7	3,701.86	7	4,010.02	7	4,307.18	7		7		7		7		7		7	
1/4	3,381.73	1/4	3,708.47	1/4	4,016.18	1/4	4,313.98	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,388.65	1/2	3,715.08	1/2	4,022.34	1/2	4,320.78	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,395.56	3/4	3,721.69	3/4	4,028.49	3/4	4,327.58	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,402.48	8	3,728.30	8	4,034.65	8	4,334.38	8		8		8		8		8		8	
1/4	3,409.39	1/4	3,734.88	1/4	4,040.77	1/4	4,340.55	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,416.30	1/2	3,741.45	1/2	4,046.89	1/2	4,346.72	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,423.22	3/4	3,748.03	3/4	4,053.02	3/4	4,352.90	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,430.13	9	3,754.60	9	4,059.14	9	4,359.07	9		9		9		9		9		9	
1/4	3,437.05	1/4	3,761.14	1/4	4,065.23	1/4	4,365.98	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,443.96	1/2	3,767.68	1/2	4,071.31	1/2	4,368.90	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,450.88	3/4	3,774.22	3/4	4,077.40	3/4	4,373.81	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,457.79	10	3,780.76	10	4,083.49	10		10		10		10		10		10		10	
1/4	3,464.70	1/4	3,787.27	1/4	4,089.54	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,471.60	1/2	3,793.77	1/2	4,095.59	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,478.51	3/4	3,800.28	3/4	4,101.65	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,485.42	11	3,806.79	11	4,107.70	11		11		11		11		11		11		11	
1/4	3,492.30	1/4	3,813.26	1/4	4,113.72	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,499.19	1/2	3,819.73	1/2	4,119.74	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,506.07	3/4	3,826.20	3/4	4,125.76	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2013

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& ANALYSIS, INC.
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BARGE "EMS 387"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,874.94	0	4,262.90	0	4,636.79	0	4,986.56	0		0		0		0		0		0	
1/4	3,883.03	1/4	4,270.91	1/4	4,644.32	1/4	4,993.56	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,891.11	1/2	4,278.92	1/2	4,651.85	1/2	5,000.56	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,899.20	3/4	4,286.93	3/4	4,659.37	3/4	5,007.55	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,907.29	1	4,294.94	1	4,666.90	1	5,014.55	1		1		1		1		1		1	
1/4	3,915.37	1/4	4,302.91	1/4	4,674.39	1/4	5,021.51	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,923.46	1/2	4,310.88	1/2	4,681.88	1/2	5,028.47	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,931.54	3/4	4,318.85	3/4	4,689.36	3/4	5,035.42	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,939.63	2	4,326.83	2	4,696.85	2	5,042.38	2		2		2		2		2		2	
1/4	3,947.72	1/4	4,334.76	1/4	4,704.30	1/4	5,049.30	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,955.80	1/2	4,342.69	1/2	4,711.75	1/2	5,056.22	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,963.89	3/4	4,350.62	3/4	4,719.19	3/4	5,063.13	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,971.97	3	4,358.55	3	4,726.64	3	5,070.05	3		3		3		3		3		3	
1/4	3,980.06	1/4	4,366.44	1/4	4,734.05	1/4	5,076.93	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,988.15	1/2	4,374.33	1/2	4,741.46	1/2	5,083.80	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,996.23	3/4	4,382.22	3/4	4,748.86	3/4	5,090.68	3/4		3/4		3/4		3/4		3/4		3/4	
4	4,004.32	4	4,390.11	4	4,756.27	4	5,097.56	4		4		4		4		4		4	
1/4	4,012.41	1/4	4,397.96	1/4	4,763.64	1/4	5,105.01	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,020.49	1/2	4,405.81	1/2	4,771.00	1/2	5,112.45	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,028.58	3/4	4,413.65	3/4	4,778.37	3/4	5,119.90	3/4		3/4		3/4		3/4		3/4		3/4	
5	4,036.66	5	4,421.50	5	4,785.74	5	5,127.35	5		5		5		5		5		5	
1/4	4,044.75	1/4	4,429.31	1/4	4,793.06	1/4	5,135.39	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,052.84	1/2	4,437.12	1/2	4,800.39	1/2	5,143.43	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,060.92	3/4	4,444.93	3/4	4,807.72	3/4	5,151.47	3/4		3/4		3/4		3/4		3/4		3/4	
6	4,069.01	6	4,452.74	6	4,815.04	6	5,159.51	6		6		6		6		6		6	
1/4	4,077.09	1/4	4,460.51	1/4	4,822.33	1/4	5,167.54	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,085.18	1/2	4,468.28	1/2	4,829.62	1/2	5,175.58	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,093.27	3/4	4,476.05	3/4	4,836.90	3/4	5,183.62	3/4		3/4		3/4		3/4		3/4		3/4	
7	4,101.35	7	4,483.82	7	4,844.19	7	5,191.66	7		7		7		7		7		7	
1/4	4,109.44	1/4	4,491.55	1/4	4,851.39	1/4	5,199.61	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,117.52	1/2	4,499.28	1/2	4,858.59	1/2	5,207.57	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,125.61	3/4	4,507.01	3/4	4,865.79	3/4	5,215.52	3/4		3/4		3/4		3/4		3/4		3/4	
8	4,133.70	8	4,514.74	8	4,872.99	8	5,223.47	8		8		8		8		8		8	
1/4	4,141.78	1/4	4,522.42	1/4	4,880.14	1/4	5,230.69	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,149.87	1/2	4,530.11	1/2	4,887.30	1/2	5,237.91	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,157.95	3/4	4,537.80	3/4	4,894.46	3/4	5,245.13	3/4		3/4		3/4		3/4		3/4		3/4	
9	4,166.04	9	4,545.49	9	4,901.62	9	5,252.35	9		9		9		9		9		9	
1/4	4,174.13	1/4	4,553.14	1/4	4,908.74	1/4	5,258.10	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,182.21	1/2	4,560.79	1/2	4,915.86	1/2	5,263.85	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,190.30	3/4	4,568.44	3/4	4,922.98	3/4	5,269.59	3/4		3/4		3/4		3/4		3/4		3/4	
10	4,198.39	10	4,576.08	10	4,930.09	10		10		10		10		10		10		10	
1/4	4,206.46	1/4	4,583.69	1/4	4,937.17	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,214.54	1/2	4,591.30	1/2	4,944.25	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,222.62	3/4	4,598.91	3/4	4,951.33	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	4,230.70	11	4,606.52	11	4,958.41	11		11		11		11		11		11		11	
1/4	4,238.75	1/4	4,614.09	1/4	4,965.45	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,246.80	1/2	4,621.65	1/2	4,972.48	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,254.85	3/4	4,629.22	3/4	4,979.52	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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ALL PRIOR TO 11/2013

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



BARGE "EMS 387"

2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10"

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	3,887.24	0	4,274.93	0	4,648.57	0	4,998.11	0		0		0		0		0		0	
1/4	3,895.32	1/4	4,282.94	1/4	4,656.10	1/4	5,005.10	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,903.40	1/2	4,290.94	1/2	4,663.62	1/2	5,012.09	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,911.48	3/4	4,298.95	3/4	4,671.14	3/4	5,019.09	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,919.56	1	4,306.96	1	4,678.66	1	5,026.08	1		1		1		1		1		1	
1/4	3,927.64	1/4	4,314.92	1/4	4,686.15	1/4	5,033.03	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,935.72	1/2	4,322.89	1/2	4,693.63	1/2	5,039.99	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,943.80	3/4	4,330.85	3/4	4,701.11	3/4	5,046.94	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,951.88	2	4,338.82	2	4,708.59	2	5,053.89	2		2		2		2		2		2	
1/4	3,959.96	1/4	4,346.74	1/4	4,716.04	1/4	5,060.80	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,968.04	1/2	4,354.67	1/2	4,723.48	1/2	5,067.72	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,976.12	3/4	4,362.59	3/4	4,730.92	3/4	5,074.63	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,984.20	3	4,370.52	3	4,738.36	3	5,081.54	3		3		3		3		3		3	
1/4	3,992.29	1/4	4,378.40	1/4	4,745.77	1/4	5,088.41	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,000.37	1/2	4,386.28	1/2	4,753.17	1/2	5,095.29	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,008.45	3/4	4,394.17	3/4	4,760.57	3/4	5,102.16	3/4		3/4		3/4		3/4		3/4		3/4	
4	4,016.53	4	4,402.05	4	4,767.97	4	5,109.03	4		4		4		4		4		4	
1/4	4,024.61	1/4	4,409.90	1/4	4,775.33	1/4	5,116.48	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,032.69	1/2	4,417.74	1/2	4,782.70	1/2	5,123.92	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,040.77	3/4	4,425.59	3/4	4,790.06	3/4	5,131.36	3/4		3/4		3/4		3/4		3/4		3/4	
5	4,048.85	5	4,433.43	5	4,797.42	5	5,138.80	5		5		5		5		5		5	
1/4	4,056.93	1/4	4,441.24	1/4	4,804.74	1/4	5,146.84	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,065.01	1/2	4,449.04	1/2	4,812.06	1/2	5,154.87	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,073.09	3/4	4,456.84	3/4	4,819.39	3/4	5,162.90	3/4		3/4		3/4		3/4		3/4		3/4	
6	4,081.17	6	4,464.65	6	4,826.71	6	5,170.94	6		6		6		6		6		6	
1/4	4,089.25	1/4	4,472.41	1/4	4,833.99	1/4	5,178.97	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,097.33	1/2	4,480.18	1/2	4,841.27	1/2	5,187.00	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,105.41	3/4	4,487.94	3/4	4,848.55	3/4	5,195.04	3/4		3/4		3/4		3/4		3/4		3/4	
7	4,113.49	7	4,495.70	7	4,855.83	7	5,203.07	7		7		7		7		7		7	
1/4	4,121.57	1/4	4,503.43	1/4	4,863.03	1/4	5,211.02	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,129.66	1/2	4,511.15	1/2	4,870.22	1/2	5,218.97	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,137.74	3/4	4,518.88	3/4	4,877.42	3/4	5,226.92	3/4		3/4		3/4		3/4		3/4		3/4	
8	4,145.82	8	4,526.60	8	4,884.61	8	5,234.86	8		8		8		8		8		8	
1/4	4,153.90	1/4	4,534.28	1/4	4,891.76	1/4	5,242.08	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,161.98	1/2	4,541.97	1/2	4,898.92	1/2	5,249.29	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,170.06	3/4	4,549.65	3/4	4,906.07	3/4	5,256.51	3/4		3/4		3/4		3/4		3/4		3/4	
9	4,178.14	9	4,557.33	9	4,913.23	9	5,263.72	9		9		9		9		9		9	
1/4	4,186.22	1/4	4,564.98	1/4	4,920.34	1/4	5,269.46	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,194.30	1/2	4,572.62	1/2	4,927.45	1/2	5,275.21	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,202.38	3/4	4,580.26	3/4	4,934.57	3/4	5,280.95	3/4		3/4		3/4		3/4		3/4		3/4	
10	4,210.46	10	4,587.91	10	4,941.68	10		10		10		10		10		10		10	
1/4	4,218.53	1/4	4,595.51	1/4	4,948.75	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,226.61	1/2	4,603.11	1/2	4,955.83	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,234.68	3/4	4,610.72	3/4	4,962.90	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	4,242.75	11	4,618.32	11	4,969.97	11		11		11		11		11		11		11	
1/4	4,250.80	1/4	4,625.88	1/4	4,977.01	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,258.84	1/2	4,633.45	1/2	4,984.04	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,266.89	3/4	4,641.01	3/4	4,991.07	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

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BARGE "EMS 387"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10"

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	3,562.98	0	3,857.08	0	4,138.11	0	4,396.86	0		0		0		0		0		0	
1/4	3,569.11	1/4	3,863.15	1/4	4,143.72	1/4	4,401.99	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,575.24	1/2	3,869.21	1/2	4,149.33	1/2	4,407.11	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,581.37	3/4	3,875.27	3/4	4,154.94	3/4	4,412.24	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,587.50	1	3,881.33	1	4,160.56	1	4,417.37	1		1		1		1		1		1	
1/4	3,593.63	1/4	3,887.35	1/4	4,166.13	1/4	4,422.46	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,599.76	1/2	3,893.37	1/2	4,171.70	1/2	4,427.55	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,605.89	3/4	3,899.40	3/4	4,177.28	3/4	4,432.63	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,612.02	2	3,905.42	2	4,182.85	2	4,437.72	2		2		2		2		2		2	
1/4	3,618.15	1/4	3,911.40	1/4	4,188.39	1/4	4,442.78	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,624.28	1/2	3,917.39	1/2	4,193.93	1/2	4,447.83	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,630.41	3/4	3,923.38	3/4	4,199.46	3/4	4,452.88	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,636.54	3	3,929.36	3	4,205.00	3	4,457.93	3		3		3		3		3		3	
1/4	3,642.67	1/4	3,935.31	1/4	4,210.50	1/4	4,462.94	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,648.80	1/2	3,941.26	1/2	4,216.00	1/2	4,467.96	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,654.94	3/4	3,947.21	3/4	4,221.50	3/4	4,472.97	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,661.07	4	3,953.15	4	4,227.00	4	4,477.99	4		4		4		4		4		4	
1/4	3,667.20	1/4	3,959.06	1/4	4,232.46	1/4	4,483.53	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,673.33	1/2	3,964.98	1/2	4,237.92	1/2	4,489.08	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,679.46	3/4	3,970.89	3/4	4,243.38	3/4	4,494.62	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,685.59	5	3,976.80	5	4,248.84	5	4,500.17	5		5		5		5		5		5	
1/4	3,691.72	1/4	3,982.67	1/4	4,254.27	1/4	4,506.26	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,697.85	1/2	3,988.54	1/2	4,259.69	1/2	4,512.35	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,703.98	3/4	3,994.42	3/4	4,265.12	3/4	4,518.45	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,710.11	6	4,000.29	6	4,270.54	6	4,524.54	6		6		6		6		6		6	
1/4	3,716.24	1/4	4,006.13	1/4	4,275.93	1/4	4,530.64	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,722.37	1/2	4,011.96	1/2	4,281.32	1/2	4,536.73	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,728.50	3/4	4,017.80	3/4	4,286.70	3/4	4,542.83	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,734.63	7	4,023.63	7	4,292.09	7	4,548.92	7		7		7		7		7		7	
1/4	3,740.76	1/4	4,029.43	1/4	4,297.40	1/4	4,556.32	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,746.89	1/2	4,035.23	1/2	4,302.72	1/2	4,563.71	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,753.02	3/4	4,041.03	3/4	4,308.03	3/4	4,571.11	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,759.15	8	4,046.83	8	4,313.34	8	4,578.51	8		8		8		8		8		8	
1/4	3,765.28	1/4	4,052.59	1/4	4,318.62	1/4	4,585.22	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,771.41	1/2	4,058.35	1/2	4,323.90	1/2	4,591.93	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,777.55	3/4	4,064.11	3/4	4,329.17	3/4	4,598.65	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,783.68	9	4,069.87	9	4,334.45	9	4,605.36	9		9		9		9		9		9	
1/4	3,789.81	1/4	4,075.60	1/4	4,339.69	1/4	4,610.71	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,795.94	1/2	4,081.32	1/2	4,344.93	1/2	4,616.05	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,802.07	3/4	4,087.04	3/4	4,350.16	3/4	4,621.40	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,808.20	10	4,092.77	10	4,355.40	10		10		10		10		10		10		10	
1/4	3,814.32	1/4	4,098.45	1/4	4,360.60	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,820.45	1/2	4,104.14	1/2	4,365.80	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,826.57	3/4	4,109.83	3/4	4,371.01	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,832.69	11	4,115.51	11	4,376.21	11		11		11		11		11		11		11	
1/4	3,838.79	1/4	4,121.16	1/4	4,381.37	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,844.89	1/2	4,126.81	1/2	4,386.53	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,850.99	3/4	4,132.46	3/4	4,391.70	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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& ANALYSIS, INC.
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BARGE "EMS 387"

3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,559.03	0	3,853.22	0	4,134.33	0	4,393.17	0		0		0		0		0		0	
1/4	3,565.16	1/4	3,859.28	1/4	4,139.95	1/4	4,398.30	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,571.29	1/2	3,865.35	1/2	4,145.56	1/2	4,403.43	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,577.43	3/4	3,871.41	3/4	4,151.17	3/4	4,408.56	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,583.56	1	3,877.47	1	4,156.79	1	4,413.68	1		1		1		1		1		1	
1/4	3,589.69	1/4	3,883.49	1/4	4,162.36	1/4	4,418.78	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,595.82	1/2	3,889.52	1/2	4,167.94	1/2	4,423.87	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,601.95	3/4	3,895.54	3/4	4,173.51	3/4	4,428.96	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,608.09	2	3,901.57	2	4,179.09	2	4,434.05	2		2		2		2		2		2	
1/4	3,614.22	1/4	3,907.56	1/4	4,184.63	1/4	4,439.10	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,620.35	1/2	3,913.54	1/2	4,190.17	1/2	4,444.15	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,626.48	3/4	3,919.53	3/4	4,195.70	3/4	4,449.21	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,632.62	3	3,925.52	3	4,201.24	3	4,454.26	3		3		3		3		3		3	
1/4	3,638.75	1/4	3,931.47	1/4	4,206.74	1/4	4,459.28	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,644.88	1/2	3,937.42	1/2	4,212.25	1/2	4,464.29	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,651.01	3/4	3,943.37	3/4	4,217.75	3/4	4,469.31	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,657.15	4	3,949.32	4	4,223.25	4	4,474.32	4		4		4		4		4		4	
1/4	3,663.28	1/4	3,955.23	1/4	4,228.71	1/4	4,479.87	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,669.41	1/2	3,961.14	1/2	4,234.18	1/2	4,485.42	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,675.54	3/4	3,967.06	3/4	4,239.64	3/4	4,490.96	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,681.67	5	3,972.97	5	4,245.10	5	4,496.51	5		5		5		5		5		5	
1/4	3,687.81	1/4	3,978.84	1/4	4,250.53	1/4	4,502.61	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,693.94	1/2	3,984.72	1/2	4,255.96	1/2	4,508.70	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,700.07	3/4	3,990.59	3/4	4,261.38	3/4	4,514.80	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,706.20	6	3,996.47	6	4,266.81	6	4,520.90	6		6		6		6		6		6	
1/4	3,712.34	1/4	4,002.31	1/4	4,272.20	1/4	4,526.99	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,718.47	1/2	4,008.14	1/2	4,277.59	1/2	4,533.09	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,724.60	3/4	4,013.98	3/4	4,282.98	3/4	4,539.18	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,730.73	7	4,019.82	7	4,288.36	7	4,545.28	7		7		7		7		7		7	
1/4	3,736.87	1/4	4,025.62	1/4	4,293.68	1/4	4,552.68	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,743.00	1/2	4,031.42	1/2	4,298.99	1/2	4,560.08	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,749.13	3/4	4,037.22	3/4	4,304.31	3/4	4,567.48	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,755.26	8	4,043.02	8	4,309.62	8	4,574.88	8		8		8		8		8		8	
1/4	3,761.39	1/4	4,048.78	1/4	4,314.90	1/4	4,581.59	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,767.53	1/2	4,054.55	1/2	4,320.18	1/2	4,588.30	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,773.66	3/4	4,060.31	3/4	4,325.46	3/4	4,595.01	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,779.79	9	4,066.07	9	4,330.74	9	4,601.73	9		9		9		9		9		9	
1/4	3,785.92	1/4	4,071.80	1/4	4,335.98	1/4	4,607.07	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,792.06	1/2	4,077.52	1/2	4,341.22	1/2	4,612.42	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,798.19	3/4	4,083.25	3/4	4,346.46	3/4	4,617.77	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,804.32	10	4,088.98	10	4,351.70	10		10		10		10		10		10		10	
1/4	3,810.45	1/4	4,094.66	1/4	4,356.90	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,816.57	1/2	4,100.35	1/2	4,362.10	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,822.70	3/4	4,106.04	3/4	4,367.31	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,828.82	11	4,111.73	11	4,372.51	11		11		11		11		11		11		11	
1/4	3,834.92	1/4	4,117.38	1/4	4,377.67	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,841.02	1/2	4,123.03	1/2	4,382.84	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,847.12	3/4	4,128.68	3/4	4,388.01	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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BARGE "EMS 387"

ULLAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-3/4	- 00-3/4	01-1/8	- 01-1/8	01-3/8	- 01-3/8	01-5/8	- 01-5/8
1 STBD	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-3/4	- 00-3/4	01-1/8	- 01-1/8	01-3/8	- 01-3/8	01-5/8	- 01-5/8
2 PORT	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-3/4	- 00-3/4	01-0/8	- 01-0/8	01-1/4	- 01-1/4	01-1/2	- 01-1/2
2 STBD	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-3/4	- 00-3/4	01-0/8	- 01-0/8	01-1/4	- 01-1/4	01-1/2	- 01-1/2
3 PORT	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-5/8	- 00-5/8
3 STBD	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-5/8	- 00-5/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 236'-00"

November 25, 2013

**PRECISION MEASUREMENT
& ANALYSIS, INC.**

P.O. Box 2092
 Pearland, Texas 77588

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BARGE "EMS 387"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GUAGE HEIGHT 16'-05"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.			
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4	1,982.55	1/4	1,650.79	1/4	1,319.03	1/4	987.44	1/4	671.75	1/4	377.92	1/4	107.74	1/4		1/4		1/4			
1/2	1,975.64	1/2	1,643.88	1/2	1,312.12	1/2	980.61	1/2	665.39	1/2	372.05	1/2	102.36	1/2		1/2		1/2			
3/4	1,968.73	3/4	1,636.97	3/4	1,305.21	3/4	973.78	3/4	659.03	3/4	366.19	3/4	96.99	3/4		3/4		3/4			
0	1,961.82	1	1,630.06	1	1,298.29	1	966.96	1	652.67	1	360.33	1	91.62	1		1		1			
1/4	1,954.91	1/4	1,623.14	1/4	1,291.38	1/4	960.17	1/4	646.36	1/4	354.50	1/4	86.29	1/4		1/4		1/4			
1/2	1,947.99	1/2	1,616.23	1/2	1,284.47	1/2	953.39	1/2	640.04	1/2	348.68	1/2	80.96	1/2		1/2		1/2			
3/4	1,941.08	3/4	1,609.32	3/4	1,277.56	3/4	946.61	3/4	633.72	3/4	342.85	3/4	75.63	3/4		3/4		3/4			
2	1,934.17	2	1,602.41	2	1,270.65	2	939.82	2	627.41	2	337.03	2	70.29	2		2		2			
1/4	1,927.26	1/4	1,595.50	1/4	1,263.74	1/4	933.10	1/4	621.13	1/4	331.25	1/4	65.00	1/4		1/4		1/4			
1/2	1,920.35	1/2	1,588.59	1/2	1,256.82	1/2	926.37	1/2	614.86	1/2	325.46	1/2	59.71	1/2		1/2		1/2			
3/4	1,913.44	3/4	1,581.67	3/4	1,249.91	3/4	919.64	3/4	608.58	3/4	319.68	3/4	54.42	3/4		3/4		3/4			
3	1,906.52	3	1,574.76	3	1,243.00	3	912.92	3	602.31	3	313.90	3	49.13	3		3		3			
1/4	1,899.61	1/4	1,567.85	1/4	1,236.09	1/4	906.23	1/4	596.07	1/4	308.16	1/4	44.13	1/4		1/4		1/4			
1/2	1,892.70	1/2	1,560.94	1/2	1,229.18	1/2	899.55	1/2	589.84	1/2	302.42	1/2	39.13	1/2		1/2		1/2			
3/4	1,885.79	3/4	1,554.03	3/4	1,222.27	3/4	892.86	3/4	583.60	3/4	296.67	3/4	34.13	3/4		3/4		3/4			
4	1,878.88	4	1,547.12	4	1,215.35	4	886.18	4	577.37	4	290.93	4	29.13	4		4		4			
1/4	1,871.97	1/4	1,540.20	1/4	1,208.44	1/4	879.53	1/4	571.18	1/4	285.23	1/4	25.89	1/4		1/4		1/4			
1/2	1,865.05	1/2	1,533.29	1/2	1,201.53	1/2	872.89	1/2	564.98	1/2	279.53	1/2	22.66	1/2		1/2		1/2			
3/4	1,858.14	3/4	1,526.38	3/4	1,194.62	3/4	866.25	3/4	558.79	3/4	273.83	3/4	19.43	3/4		3/4		3/4			
5	1,851.23	5	1,519.47	5	1,187.71	5	859.60	5	552.60	5	268.13	5	16.19	5		5		5			
1/4	1,844.32	1/4	1,512.56	1/4	1,180.80	1/4	853.00	1/4	546.44	1/4	262.47	1/4		1/4		1/4		1/4			
1/2	1,837.41	1/2	1,505.65	1/2	1,173.88	1/2	846.41	1/2	540.29	1/2	256.81	1/2		1/2		1/2		1/2			
3/4	1,830.50	3/4	1,498.73	3/4	1,166.97	3/4	839.81	3/4	534.14	3/4	251.15	3/4		3/4		3/4		3/4			
6	1,823.58	6	1,491.82	6	1,160.06	6	833.21	6	527.99	6	245.49	6		6		6		6			
1/4	1,816.67	1/4	1,484.91	1/4	1,153.15	1/4	826.65	1/4	521.88	1/4	239.87	1/4		1/4		1/4		1/4			
1/2	1,809.76	1/2	1,478.00	1/2	1,146.24	1/2	820.09	1/2	515.77	1/2	234.25	1/2		1/2		1/2		1/2			
3/4	1,802.85	3/4	1,471.09	3/4	1,139.33	3/4	813.54	3/4	509.65	3/4	228.64	3/4		3/4		3/4		3/4			
7	1,795.94	7	1,464.18	7	1,132.41	7	806.98	7	503.54	7	223.02	7		7		7		7			
1/4	1,789.03	1/4	1,457.26	1/4	1,125.50	1/4	800.46	1/4	497.47	1/4	217.44	1/4		1/4		1/4		1/4			
1/2	1,782.11	1/2	1,450.35	1/2	1,118.59	1/2	793.94	1/2	491.40	1/2	211.86	1/2		1/2		1/2		1/2			
3/4	1,775.20	3/4	1,443.44	3/4	1,111.68	3/4	787.42	3/4	485.33	3/4	206.28	3/4		3/4		3/4		3/4			
8	1,768.29	8	1,436.53	8	1,104.77	8	780.90	8	479.26	8	200.71	8		8		8		8			
1/4	1,761.38	1/4	1,429.62	1/4	1,097.86	1/4	774.42	1/4	473.23	1/4	195.17	1/4		1/4		1/4		1/4			
1/2	1,754.47	1/2	1,422.71	1/2	1,090.94	1/2	767.94	1/2	467.21	1/2	189.63	1/2		1/2		1/2		1/2			
3/4	1,747.56	3/4	1,415.79	3/4	1,084.03	3/4	761.46	3/4	461.18	3/4	184.10	3/4		3/4		3/4		3/4			
9	1,740.64	9	1,408.88	9	1,077.12	9	754.98	9	455.15	9	178.56	9		9		9		9			
1/4	1,733.73	1/4	1,401.97	1/4	1,070.21	1/4	748.54	1/4	449.16	1/4	173.07	1/4		1/4		1/4		1/4			
1/2	1,726.82	1/2	1,395.06	1/2	1,063.30	1/2	742.10	1/2	443.17	1/2	167.57	1/2		1/2		1/2		1/2			
3/4	1,719.91	3/4	1,388.15	3/4	1,056.39	3/4	735.66	3/4	437.18	3/4	162.08	3/4		3/4		3/4		3/4			
10	1,713.00	10	1,381.23	10	1,049.47	10	729.22	10	431.20	10	156.58	10		10		10		10			
1/4	1,706.08	1/4	1,374.32	1/4	1,042.56	1/4	722.81	1/4	425.25	1/4	151.13	1/4		1/4		1/4		1/4			
1/2	1,699.17	1/2	1,367.41	1/2	1,035.65	1/2	716.40	1/2	419.30	1/2	145.67	1/2		1/2		1/2		1/2			
3/4	1,692.26	3/4	1,360.50	3/4	1,028.74	3/4	709.99	3/4	413.36	3/4	140.22	3/4		3/4		3/4		3/4			
11	1,685.35	11	1,353.59	11	1,021.83	11	703.58	11	407.41	11	134.76	11		11		11		11			
1/4	1,678.44	1/4	1,346.68	1/4	1,014.94	1/4	697.21	1/4	401.50	1/4	129.35	1/4		1/4		1/4		1/4			
1/2	1,671.53	1/2	1,339.76	1/2	1,008.04	1/2	690.84	1/2	395.60	1/2	123.94	1/2		1/2		1/2		1/2			
3/4	1,664.61	3/4	1,332.85	3/4	1,001.15	3/4	684.47	3/4	389.69	3/4	118.52	3/4		3/4		3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/25/2013 CL
CALCULATED: 11/25/2013 CL
PRINTED: 11/25/2013 CL

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

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2013



BARGE "EMS 387"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	2,484.00	0	2,095.82	0	1,707.63	0	1,319.45	0	931.26	0	557.10	0	170.19	0		0		0	
1/4	2,475.92	1/4	2,087.73	1/4	1,699.55	1/4	1,311.36	1/4	923.18	1/4	549.33	1/4	162.11	1/4		1/4		1/4	
1/2	2,467.83	1/2	2,079.64	1/2	1,691.46	1/2	1,303.27	1/2	915.09	1/2	541.55	1/2	154.02	1/2		1/2		1/2	
3/4	2,459.74	3/4	2,071.56	3/4	1,683.37	3/4	1,295.19	3/4	907.00	3/4	533.77	3/4	145.93	3/4		3/4		3/4	
1	2,451.66	1	2,063.47	1	1,675.28	1	1,287.10	1	898.91	1	526.00	1	137.85	1		1		1	
1/4	2,443.57	1/4	2,055.38	1/4	1,667.20	1/4	1,279.01	1/4	891.13	1/4	517.91	1/4	129.76	1/4		1/4		1/4	
1/2	2,435.48	1/2	2,047.30	1/2	1,659.11	1/2	1,270.92	1/2	883.35	1/2	509.83	1/2	121.67	1/2		1/2		1/2	
3/4	2,427.39	3/4	2,039.21	3/4	1,651.02	3/4	1,262.84	3/4	875.57	3/4	501.74	3/4	113.59	3/4		3/4		3/4	
2	2,419.31	2	2,031.12	2	1,642.94	2	1,254.75	2	867.79	2	493.65	2	105.50	2		2		2	
1/4	2,411.22	1/4	2,023.03	1/4	1,634.85	1/4	1,246.66	1/4	860.01	1/4	485.57	1/4	97.41	1/4		1/4		1/4	
1/2	2,403.13	1/2	2,014.95	1/2	1,626.76	1/2	1,238.58	1/2	852.22	1/2	477.48	1/2	89.33	1/2		1/2		1/2	
3/4	2,395.05	3/4	2,006.86	3/4	1,618.67	3/4	1,230.49	3/4	844.44	3/4	469.39	3/4	81.24	3/4		3/4		3/4	
3	2,386.96	3	1,998.77	3	1,610.59	3	1,222.40	3	836.66	3	461.31	3	73.15	3		3		3	
1/4	2,378.87	1/4	1,990.69	1/4	1,602.50	1/4	1,214.31	1/4	828.89	1/4	453.22	1/4	65.36	1/4		1/4		1/4	
1/2	2,370.78	1/2	1,982.60	1/2	1,594.41	1/2	1,206.23	1/2	821.11	1/2	445.13	1/2	57.56	1/2		1/2		1/2	
3/4	2,362.70	3/4	1,974.51	3/4	1,586.33	3/4	1,198.14	3/4	813.33	3/4	437.05	3/4	49.76	3/4		3/4		3/4	
4	2,354.61	4	1,966.42	4	1,578.24	4	1,190.05	4	805.56	4	428.96	4	41.96	4		4		4	
1/4	2,346.52	1/4	1,958.34	1/4	1,570.15	1/4	1,181.97	1/4	797.79	1/4	420.87	1/4	36.19	1/4		1/4		1/4	
1/2	2,338.44	1/2	1,950.25	1/2	1,562.06	1/2	1,173.88	1/2	790.03	1/2	412.79	1/2	30.41	1/2		1/2		1/2	
3/4	2,330.35	3/4	1,942.16	3/4	1,553.98	3/4	1,165.79	3/4	782.26	3/4	404.70	3/4	24.64	3/4		3/4		3/4	
5	2,322.26	5	1,934.08	5	1,545.89	5	1,157.70	5	774.50	5	396.61	5	18.86	5		5		5	
1/4	2,314.17	1/4	1,925.99	1/4	1,537.80	1/4	1,149.62	1/4	766.73	1/4	388.53	1/4		1/4		1/4		1/4	
1/2	2,306.09	1/2	1,917.90	1/2	1,529.72	1/2	1,141.53	1/2	758.97	1/2	380.44	1/2		1/2		1/2		1/2	
3/4	2,298.00	3/4	1,909.81	3/4	1,521.63	3/4	1,133.44	3/4	751.20	3/4	372.35	3/4		3/4		3/4		3/4	
6	2,289.91	6	1,901.73	6	1,513.54	6	1,125.36	6	743.44	6	364.27	6		6		6		6	
1/4	2,281.82	1/4	1,893.64	1/4	1,505.45	1/4	1,117.27	1/4	735.67	1/4	356.18	1/4		1/4		1/4		1/4	
1/2	2,273.74	1/2	1,885.55	1/2	1,497.37	1/2	1,109.18	1/2	727.90	1/2	348.10	1/2		1/2		1/2		1/2	
3/4	2,265.65	3/4	1,877.46	3/4	1,489.28	3/4	1,101.09	3/4	720.14	3/4	340.01	3/4		3/4		3/4		3/4	
7	2,257.56	7	1,869.38	7	1,481.19	7	1,093.01	7	712.37	7	331.92	7		7		7		7	
1/4	2,249.48	1/4	1,861.29	1/4	1,473.10	1/4	1,084.92	1/4	704.61	1/4	323.84	1/4		1/4		1/4		1/4	
1/2	2,241.39	1/2	1,853.20	1/2	1,465.02	1/2	1,076.83	1/2	696.85	1/2	315.75	1/2		1/2		1/2		1/2	
3/4	2,233.30	3/4	1,845.12	3/4	1,456.93	3/4	1,068.74	3/4	689.09	3/4	307.66	3/4		3/4		3/4		3/4	
8	2,225.21	8	1,837.03	8	1,448.84	8	1,060.66	8	681.33	8	299.58	8		8		8		8	
1/4	2,217.13	1/4	1,828.94	1/4	1,440.76	1/4	1,052.57	1/4	673.57	1/4	291.49	1/4		1/4		1/4		1/4	
1/2	2,209.04	1/2	1,820.85	1/2	1,432.67	1/2	1,044.48	1/2	665.81	1/2	283.40	1/2		1/2		1/2		1/2	
3/4	2,200.95	3/4	1,812.77	3/4	1,424.58	3/4	1,036.40	3/4	658.05	3/4	275.32	3/4		3/4		3/4		3/4	
9	2,192.87	9	1,804.68	9	1,416.49	9	1,028.31	9	650.29	9	267.23	9		9		9		9	
1/4	2,184.78	1/4	1,796.59	1/4	1,408.41	1/4	1,020.22	1/4	642.52	1/4	259.14	1/4		1/4		1/4		1/4	
1/2	2,176.69	1/2	1,788.51	1/2	1,400.32	1/2	1,012.13	1/2	634.75	1/2	251.06	1/2		1/2		1/2		1/2	
3/4	2,168.60	3/4	1,780.42	3/4	1,392.23	3/4	1,004.05	3/4	626.99	3/4	242.97	3/4		3/4		3/4		3/4	
10	2,160.52	10	1,772.33	10	1,384.15	10	995.96	10	619.22	10	234.88	10		10		10		10	
1/4	2,152.43	1/4	1,764.24	1/4	1,376.06	1/4	987.87	1/4	611.46	1/4	226.80	1/4		1/4		1/4		1/4	
1/2	2,144.34	1/2	1,756.16	1/2	1,367.97	1/2	979.79	1/2	603.69	1/2	218.71	1/2		1/2		1/2		1/2	
3/4	2,136.26	3/4	1,748.07	3/4	1,359.88	3/4	971.70	3/4	595.93	3/4	210.62	3/4		3/4		3/4		3/4	
11	2,128.17	11	1,739.98	11	1,351.80	11	963.61	11	588.16	11	202.54	11		11		11		11	
1/4	2,120.08	1/4	1,731.90	1/4	1,343.71	1/4	955.52	1/4	580.40	1/4	194.45	1/4		1/4		1/4		1/4	
1/2	2,111.99	1/2	1,723.81	1/2	1,335.62	1/2	947.44	1/2	572.63	1/2	186.37	1/2		1/2		1/2		1/2	
3/4	2,103.91	3/4	1,715.72	3/4	1,327.54	3/4	939.35	3/4	564.87	3/4	178.28	3/4		3/4		3/4		3/4	

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CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2013

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PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "EMS 387"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		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 ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.

GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 51'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
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BARGE "EMS 387"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,481.07	0	2,093.15	0	1,705.22	0	1,317.29	0	929.37	0	541.81	0	153.92	0		0		0	
1/4	2,472.99	1/4	2,085.06	1/4	1,697.14	1/4	1,309.21	1/4	921.28	1/4	533.73	1/4	145.84	1/4	1/4		1/4		1/4
1/2	2,464.91	1/2	2,076.98	1/2	1,689.06	1/2	1,301.13	1/2	913.20	1/2	525.65	1/2	137.75	1/2	1/2		1/2		1/2
3/4	2,456.83	3/4	2,068.90	3/4	1,680.97	3/4	1,293.05	3/4	905.12	3/4	517.57	3/4	129.67	3/4	3/4		3/4		3/4
1	2,448.74	1	2,060.82	1	1,672.89	1	1,284.97	1	897.04	1	509.48	1	121.59	1	1		1		1
1/4	2,440.66	1/4	2,052.74	1/4	1,664.81	1/4	1,276.88	1/4	888.96	1/4	501.40	1/4	113.51	1/4	1/4		1/4		1/4
1/2	2,432.58	1/2	2,044.65	1/2	1,656.73	1/2	1,268.80	1/2	880.88	1/2	493.32	1/2	105.43	1/2	1/2		1/2		1/2
3/4	2,424.50	3/4	2,036.57	3/4	1,648.65	3/4	1,260.72	3/4	872.79	3/4	485.24	3/4	97.35	3/4	3/4		3/4		3/4
2	2,416.42	2	2,028.49	2	1,640.56	2	1,252.64	2	864.71	2	477.16	2	89.27	2	2		2		2
1/4	2,408.34	1/4	2,020.41	1/4	1,632.48	1/4	1,244.56	1/4	856.63	1/4	469.08	1/4	81.19	1/4	1/4		1/4		1/4
1/2	2,400.25	1/2	2,012.33	1/2	1,624.40	1/2	1,236.47	1/2	848.55	1/2	461.00	1/2	73.11	1/2	1/2		1/2		1/2
3/4	2,392.17	3/4	2,004.25	3/4	1,616.32	3/4	1,228.39	3/4	840.47	3/4	452.92	3/4	65.31	3/4	3/4		3/4		3/4
3	2,384.09	3	1,996.16	3	1,608.24	3	1,220.31	3	832.38	3	444.84	3	57.52	3	3		3		3
1/4	2,376.01	1/4	1,988.08	1/4	1,600.16	1/4	1,212.23	1/4	824.30	1/4	436.75	1/4	49.73	1/4	1/4		1/4		1/4
1/2	2,367.93	1/2	1,980.00	1/2	1,592.07	1/2	1,204.15	1/2	816.22	1/2	428.67	1/2	41.94	1/2	1/2		1/2		1/2
3/4	2,359.84	3/4	1,971.92	3/4	1,583.99	3/4	1,196.07	3/4	808.15	3/4	420.59	3/4	36.16	3/4	3/4		3/4		3/4
4	2,351.76	4	1,963.84	4	1,575.91	4	1,187.98	4	800.08	4	412.51	4	30.39	4	4		4		4
1/4	2,343.68	1/4	1,955.75	1/4	1,567.83	1/4	1,179.90	1/4	792.01	1/4	404.43	1/4	24.62	1/4	1/4		1/4		1/4
1/2	2,335.60	1/2	1,947.67	1/2	1,559.75	1/2	1,171.82	1/2	783.94	1/2	396.35	1/2	18.85	1/2	1/2		1/2		1/2
3/4	2,327.52	3/4	1,939.59	3/4	1,551.66	3/4	1,163.74	3/4	775.86	3/4	388.27	3/4		3/4	3/4		3/4		3/4
5	2,319.44	5	1,931.51	5	1,543.58	5	1,155.66	5	767.79	5	380.19	5		5	5		5		5
1/4	2,311.35	1/4	1,923.43	1/4	1,535.50	1/4	1,147.57	1/4	759.72	1/4	372.11	1/4		1/4	1/4		1/4		1/4
1/2	2,303.27	1/2	1,915.35	1/2	1,527.42	1/2	1,139.49	1/2	751.65	1/2	364.02	1/2		1/2	1/2		1/2		1/2
3/4	2,295.19	3/4	1,907.26	3/4	1,519.34	3/4	1,131.41	3/4	743.58	3/4	355.94	3/4		3/4	3/4		3/4		3/4
6	2,287.11	6	1,899.18	6	1,511.26	6	1,123.33	6	735.51	6	347.86	6		6	6		6		6
1/4	2,279.03	1/4	1,891.10	1/4	1,503.17	1/4	1,115.25	1/4	727.44	1/4	339.78	1/4		1/4	1/4		1/4		1/4
1/2	2,270.94	1/2	1,883.02	1/2	1,495.09	1/2	1,107.17	1/2	719.37	1/2	331.70	1/2		1/2	1/2		1/2		1/2
3/4	2,262.86	3/4	1,874.94	3/4	1,487.01	3/4	1,099.08	3/4	711.30	3/4	323.62	3/4		3/4	3/4		3/4		3/4
7	2,254.78	7	1,866.85	7	1,478.93	7	1,091.00	7	703.23	7	315.54	7		7	7		7		7
1/4	2,246.70	1/4	1,858.77	1/4	1,470.85	1/4	1,082.92	1/4	695.16	1/4	307.46	1/4		1/4	1/4		1/4		1/4
1/2	2,238.62	1/2	1,850.69	1/2	1,462.76	1/2	1,074.84	1/2	687.10	1/2	299.38	1/2		1/2	1/2		1/2		1/2
3/4	2,230.54	3/4	1,842.61	3/4	1,454.68	3/4	1,066.76	3/4	679.03	3/4	291.29	3/4		3/4	3/4		3/4		3/4
8	2,222.45	8	1,834.53	8	1,446.60	8	1,058.67	8	670.96	8	283.21	8		8	8		8		8
1/4	2,214.37	1/4	1,826.45	1/4	1,438.52	1/4	1,050.59	1/4	662.90	1/4	275.13	1/4		1/4	1/4		1/4		1/4
1/2	2,206.29	1/2	1,818.36	1/2	1,430.44	1/2	1,042.51	1/2	654.83	1/2	267.05	1/2		1/2	1/2		1/2		1/2
3/4	2,198.21	3/4	1,810.28	3/4	1,422.36	3/4	1,034.43	3/4	646.76	3/4	258.97	3/4		3/4	3/4		3/4		3/4
9	2,190.13	9	1,802.20	9	1,414.27	9	1,026.35	9	638.69	9	250.89	9		9	9		9		9
1/4	2,182.04	1/4	1,794.12	1/4	1,406.19	1/4	1,018.27	1/4	630.61	1/4	242.81	1/4		1/4	1/4		1/4		1/4
1/2	2,173.96	1/2	1,786.04	1/2	1,398.11	1/2	1,010.18	1/2	622.54	1/2	234.73	1/2		1/2	1/2		1/2		1/2
3/4	2,165.88	3/4	1,777.95	3/4	1,390.03	3/4	1,002.10	3/4	614.47	3/4	226.65	3/4		3/4	3/4		3/4		3/4
10	2,157.80	10	1,769.87	10	1,381.95	10	994.02	10	606.40	10	218.56	10		10	10		10		10
1/4	2,149.72	1/4	1,761.79	1/4	1,373.86	1/4	985.94	1/4	598.33	1/4	210.48	1/4		1/4	1/4		1/4		1/4
1/2	2,141.64	1/2	1,753.71	1/2	1,365.78	1/2	977.86	1/2	590.26	1/2	202.40	1/2		1/2	1/2		1/2		1/2
3/4	2,133.55	3/4	1,745.63	3/4	1,357.70	3/4	969.77	3/4	582.19	3/4	194.32	3/4		3/4	3/4		3/4		3/4
11	2,125.47	11	1,737.55	11	1,349.62	11	961.69	11	574.11	11	186.24	11		11	11		11		11
1/4	2,117.39	1/4	1,729.46	1/4	1,341.54	1/4	953.61	1/4	566.04	1/4	178.16	1/4		1/4	1/4		1/4		1/4
1/2	2,109.31	1/2	1,721.38	1/2	1,333.46	1/2	945.53	1/2	557.97	1/2	170.08	1/2		1/2	1/2		1/2		1/2
3/4	2,101.23	3/4	1,713.30	3/4	1,325.37	3/4	937.45	3/4	549.89	3/4	162.00	3/4		3/4	3/4		3/4		3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/25/2013 CL
CALCULATED: 11/25/2013 CL
PRINTED: 11/25/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2013

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



BARGE "EMS 387"

3 STBD
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 3/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.			
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4	2,291.41	1/4	1,932.35	1/4	1,573.99	1/4	1,213.55	1/4	853.12	1/4	503.27	1/4	143.16	1/4		1/4		1/4			
1/2	2,283.89	1/2	1,924.92	1/2	1,566.48	1/2	1,206.05	1/2	845.61	1/2	495.98	1/2	135.64	1/2		1/2		1/2			
3/4	2,276.38	3/4	1,917.48	3/4	1,558.97	3/4	1,198.54	3/4	838.10	3/4	488.69	3/4	128.13	3/4		3/4		3/4			
1	2,268.87	1	1,910.05	1	1,551.46	1	1,191.03	1	830.82	1	481.18	1	120.62	1		1		1			
1/4	2,261.36	1/4	1,902.61	1/4	1,543.95	1/4	1,183.52	1/4	823.53	1/4	473.67	1/4	113.11	1/4		1/4		1/4			
1/2	2,253.84	1/2	1,895.18	1/2	1,536.44	1/2	1,176.01	1/2	816.24	1/2	466.16	1/2	105.60	1/2		1/2		1/2			
3/4	2,246.33	3/4	1,887.74	3/4	1,528.93	3/4	1,168.50	3/4	808.96	3/4	458.65	3/4	98.09	3/4		3/4		3/4			
2	2,238.82	2	1,880.31	2	1,521.42	2	1,160.99	2	801.67	2	451.14	2	90.57	2		2		2			
1/4	2,231.31	1/4	1,872.87	1/4	1,513.91	1/4	1,153.48	1/4	794.38	1/4	443.62	1/4	83.06	1/4		1/4		1/4			
1/2	2,223.79	1/2	1,865.44	1/2	1,506.41	1/2	1,145.97	1/2	787.09	1/2	436.11	1/2	75.55	1/2		1/2		1/2			
3/4	2,216.28	3/4	1,858.00	3/4	1,498.90	3/4	1,138.46	3/4	779.81	3/4	428.60	3/4	68.04	3/4		3/4		3/4			
3	2,208.77	3	1,850.57	3	1,491.39	3	1,130.96	3	772.52	3	421.09	3	60.80	3		3		3			
1/4	2,201.26	1/4	1,843.13	1/4	1,483.88	1/4	1,123.45	1/4	765.23	1/4	413.58	1/4	53.55	1/4		1/4		1/4			
1/2	2,193.75	1/2	1,835.69	1/2	1,476.37	1/2	1,115.94	1/2	757.94	1/2	406.07	1/2	46.31	1/2		1/2		1/2			
3/4	2,186.23	3/4	1,828.26	3/4	1,468.86	3/4	1,108.43	3/4	750.66	3/4	398.55	3/4	39.07	3/4		3/4		3/4			
4	2,178.72	4	1,820.82	4	1,461.35	4	1,100.92	4	743.38	4	391.04	4	33.69	4		4		4			
1/4	2,171.21	1/4	1,813.39	1/4	1,453.84	1/4	1,093.41	1/4	736.10	1/4	383.53	1/4	28.32	1/4		1/4		1/4			
1/2	2,163.70	1/2	1,805.95	1/2	1,446.33	1/2	1,085.90	1/2	728.83	1/2	376.02	1/2	22.95	1/2		1/2		1/2			
3/4	2,156.18	3/4	1,798.52	3/4	1,438.82	3/4	1,078.39	3/4	721.55	3/4	368.51	3/4	17.58	3/4		3/4		3/4			
5	2,148.67	5	1,791.08	5	1,431.32	5	1,070.88	5	714.27	5	361.00	5		5		5		5			
1/4	2,141.16	1/4	1,783.65	1/4	1,423.81	1/4	1,063.37	1/4	707.00	1/4	353.48	1/4		1/4		1/4		1/4			
1/2	2,133.65	1/2	1,776.21	1/2	1,416.30	1/2	1,055.87	1/2	699.72	1/2	345.97	1/2		1/2		1/2		1/2			
3/4	2,126.13	3/4	1,768.78	3/4	1,408.79	3/4	1,048.36	3/4	692.44	3/4	338.46	3/4		3/4		3/4		3/4			
6	2,118.62	6	1,761.34	6	1,401.28	6	1,040.85	6	685.17	6	330.95	6		6		6		6			
1/4	2,111.11	1/4	1,753.91	1/4	1,393.77	1/4	1,033.34	1/4	677.89	1/4	323.44	1/4		1/4		1/4		1/4			
1/2	2,103.60	1/2	1,746.47	1/2	1,386.26	1/2	1,025.83	1/2	670.61	1/2	315.92	1/2		1/2		1/2		1/2			
3/4	2,096.09	3/4	1,739.04	3/4	1,378.75	3/4	1,018.32	3/4	663.34	3/4	308.41	3/4		3/4		3/4		3/4			
7	2,088.61	7	1,731.56	7	1,371.24	7	1,010.81	7	656.06	7	300.90	7		7		7		7			
1/4	2,081.14	1/4	1,724.09	1/4	1,363.73	1/4	1,003.30	1/4	648.79	1/4	293.39	1/4		1/4		1/4		1/4			
1/2	2,073.66	1/2	1,716.62	1/2	1,356.23	1/2	995.79	1/2	641.52	1/2	285.88	1/2		1/2		1/2		1/2			
3/4	2,066.19	3/4	1,709.15	3/4	1,348.72	3/4	988.28	3/4	634.25	3/4	278.37	3/4		3/4		3/4		3/4			
8	2,058.75	8	1,701.64	8	1,341.21	8	980.78	8	626.98	8	270.85	8		8		8		8			
1/4	2,051.32	1/4	1,694.13	1/4	1,333.70	1/4	973.27	1/4	619.70	1/4	263.34	1/4		1/4		1/4		1/4			
1/2	2,043.88	1/2	1,686.62	1/2	1,326.19	1/2	965.76	1/2	612.43	1/2	255.83	1/2		1/2		1/2		1/2			
3/4	2,036.45	3/4	1,679.11	3/4	1,318.68	3/4	958.25	3/4	605.16	3/4	248.32	3/4		3/4		3/4		3/4			
9	2,029.01	9	1,671.60	9	1,311.17	9	950.74	9	597.88	9	240.81	9		9		9		9			
1/4	2,021.58	1/4	1,664.09	1/4	1,303.66	1/4	943.23	1/4	590.60	1/4	233.30	1/4		1/4		1/4		1/4			
1/2	2,014.14	1/2	1,656.59	1/2	1,296.15	1/2	935.72	1/2	583.33	1/2	225.78	1/2		1/2		1/2		1/2			
3/4	2,006.71	3/4	1,649.08	3/4	1,288.64	3/4	928.21	3/4	576.05	3/4	218.27	3/4		3/4		3/4		3/4			
10	1,999.27	10	1,641.57	10	1,281.14	10	920.70	10	568.77	10	210.76	10		10		10		10			
1/4	1,991.84	1/4	1,634.06	1/4	1,273.63	1/4	913.19	1/4	561.50	1/4	203.25	1/4		1/4		1/4		1/4			
1/2	1,984.40	1/2	1,626.55	1/2	1,266.12	1/2	905.69	1/2	554.22	1/2	195.74	1/2		1/2		1/2		1/2			
3/4	1,976.97	3/4	1,619.04	3/4	1,258.61	3/4	898.18	3/4	546.94	3/4	188.23	3/4		3/4		3/4		3/4			
11	1,969.53	11	1,611.53	11	1,251.10	11	890.67	11	539.67	11	180.71	11		11		11		11			
1/4	1,962.09	1/4	1,604.02	1/4	1,243.59	1/4	883.16	1/4	532.39	1/4	173.20	1/4		1/4		1/4		1/4			
1/2	1,954.66	1/2	1,596.51	1/2	1,236.08	1/2	875.65	1/2	525.11	1/2	165.69	1/2		1/2		1/2		1/2			
3/4	1,947.22	3/4	1,589.00	3/4	1,228.57	3/4	868.14	3/4	517.84	3/4	158.18	3/4		3/4		3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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