



# BARGE "EMS 407P"

# PORT HORIZONTAL INNAGE TABLE

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	0.35	0	202.72	0	561.24	0	1,012.82	0	1,530.35	0	2,095.96	0	2,695.93	0	3,318.71	0	3,953.84	0	4,591.41
1/4	1.58	1/4	209.05	1/4	569.88	1/4	1,023.05	1/4	1,541.73	1/4	2,108.17	1/4	2,708.72	1/4	3,331.86	1/4	3,967.13	1/4	4,604.64
1/2	2.81	1/2	215.38	1/2	578.52	1/2	1,033.27	1/2	1,553.11	1/2	2,120.39	1/2	2,721.52	1/2	3,345.01	1/2	3,980.42	1/2	4,617.87
3/4	4.04	3/4	221.70	3/4	587.16	3/4	1,043.49	3/4	1,564.49	3/4	2,132.60	3/4	2,734.31	3/4	3,358.15	3/4	3,993.72	3/4	4,631.11
1	5.27	1	228.03	1	595.79	1	1,053.72	1	1,575.86	1	2,144.81	1	2,747.10	1	3,371.30	1	4,007.01	1	4,644.34
1/4	7.51	1/4	234.59	1/4	604.59	1/4	1,064.05	1/4	1,597.32	1/4	2,157.09	1/4	2,759.93	1/4	3,384.47	1/4	4,020.31	1/4	4,657.56
1/2	9.76	1/2	241.15	1/2	613.38	1/2	1,074.38	1/2	1,598.78	1/2	2,169.36	1/2	2,772.77	1/2	3,397.64	1/2	4,033.60	1/2	4,670.78
3/4	12.01	3/4	247.72	3/4	622.17	3/4	1,084.72	3/4	1,610.24	3/4	2,181.63	3/4	2,785.60	3/4	3,410.81	3/4	4,046.90	3/4	4,684.00
2	14.26	2	254.28	2	630.96	2	1,095.05	2	1,621.70	2	2,193.90	2	2,798.43	2	3,423.98	2	4,060.19	2	4,697.22
1/4	17.17	1/4	261.07	1/4	639.90	1/4	1,105.49	1/4	1,633.23	1/4	2,206.23	1/4	2,811.30	1/4	3,437.17	1/4	4,073.49	1/4	4,710.42
1/2	20.07	1/2	267.86	1/2	648.84	1/2	1,115.94	1/2	1,644.77	1/2	2,218.56	1/2	2,824.17	1/2	3,450.35	1/2	4,086.79	1/2	4,723.63
3/4	22.98	3/4	274.65	3/4	657.78	3/4	1,126.38	3/4	1,656.30	3/4	2,230.88	3/4	2,837.03	3/4	3,463.54	3/4	4,100.08	3/4	4,736.83
3	25.89	3	281.44	3	666.72	3	1,136.82	3	1,667.84	3	2,243.21	3	2,849.90	3	3,476.73	3	4,113.38	3	4,750.04
1/4	29.33	1/4	288.45	1/4	675.81	1/4	1,147.36	1/4	1,679.45	1/4	2,255.59	1/4	2,862.81	1/4	3,489.93	1/4	4,126.68	1/4	4,763.22
1/2	32.77	1/2	295.45	1/2	684.89	1/2	1,157.91	1/2	1,691.06	1/2	2,267.97	1/2	2,875.71	1/2	3,503.13	1/2	4,139.98	1/2	4,776.41
3/4	36.21	3/4	302.46	3/4	693.98	3/4	1,168.46	3/4	1,702.67	3/4	2,280.36	3/4	2,888.61	3/4	3,516.34	3/4	4,153.27	3/4	4,789.60
4	39.65	4	309.47	4	703.06	4	1,179.00	4	1,714.29	4	2,292.74	4	2,901.52	4	3,529.54	4	4,166.57	4	4,802.79
1/4	43.54	1/4	316.68	1/4	712.29	1/4	1,189.65	1/4	1,725.97	1/4	2,305.17	1/4	2,914.45	1/4	3,542.76	1/4	4,179.87	1/4	4,815.95
1/2	47.44	1/2	323.89	1/2	721.52	1/2	1,200.30	1/2	1,737.66	1/2	2,317.61	1/2	2,927.39	1/2	3,555.98	1/2	4,193.16	1/2	4,829.12
3/4	51.34	3/4	331.11	3/4	730.74	3/4	1,210.95	3/4	1,749.35	3/4	2,330.04	3/4	2,940.33	3/4	3,569.20	3/4	4,206.46	3/4	4,842.29
5	55.23	5	338.32	5	739.97	5	1,221.60	5	1,761.03	5	2,342.47	5	2,953.26	5	3,582.42	5	4,219.75	5	4,855.46
1/4	59.53	1/4	345.73	1/4	749.33	1/4	1,232.35	1/4	1,772.79	1/4	2,354.96	1/4	2,966.23	1/4	3,595.65	1/4	4,233.05	1/4	4,868.61
1/2	63.83	1/2	353.15	1/2	758.69	1/2	1,243.09	1/2	1,784.55	1/2	2,367.44	1/2	2,979.20	1/2	3,608.89	1/2	4,246.34	1/2	4,881.76
3/4	68.13	3/4	360.56	3/4	768.06	3/4	1,253.84	3/4	1,796.31	3/4	2,379.93	3/4	2,992.17	3/4	3,622.12	3/4	4,259.63	3/4	4,894.91
6	72.44	6	367.97	6	777.42	6	1,264.59	6	1,808.07	6	2,392.41	6	3,005.14	6	3,635.36	6	4,272.93	6	4,908.05
1/4	77.10	1/4	375.58	1/4	786.91	1/4	1,275.43	1/4	1,819.90	1/4	2,404.95	1/4	3,018.14	1/4	3,648.60	1/4	4,286.22	1/4	4,921.18
1/2	81.77	1/2	383.19	1/2	796.41	1/2	1,286.28	1/2	1,831.73	1/2	2,417.48	1/2	3,031.13	1/2	3,661.85	1/2	4,299.50	1/2	4,934.31
3/4	86.44	3/4	390.80	3/4	805.91	3/4	1,297.12	3/4	1,843.56	3/4	2,430.01	3/4	3,044.13	3/4	3,675.10	3/4	4,312.79	3/4	4,947.44
7	91.11	7	398.40	7	815.40	7	1,307.97	7	1,855.39	7	2,442.55	7	3,057.13	7	3,688.34	7	4,326.08	7	4,960.56
1/4	96.11	1/4	406.20	1/4	825.03	1/4	1,318.91	1/4	1,867.29	1/4	2,455.13	1/4	3,070.16	1/4	3,701.60	1/4	4,339.37	1/4	4,973.67
1/2	101.12	1/2	413.99	1/2	834.65	1/2	1,329.85	1/2	1,879.19	1/2	2,467.71	1/2	3,083.19	1/2	3,714.86	1/2	4,352.65	1/2	4,986.77
3/4	106.12	3/4	421.78	3/4	844.28	3/4	1,340.79	3/4	1,891.09	3/4	2,480.29	3/4	3,096.21	3/4	3,728.12	3/4	4,365.93	3/4	4,999.88
8	111.13	8	429.58	8	853.90	8	1,351.73	8	1,902.98	8	2,492.87	8	3,109.24	8	3,741.37	8	4,379.21	8	5,012.98
1/4	116.45	1/4	437.55	1/4	863.66	1/4	1,362.76	1/4	1,914.95	1/4	2,505.50	1/4	3,122.30	1/4	3,754.64	1/4	4,392.49	1/4	5,026.06
1/2	121.77	1/2	445.52	1/2	873.41	1/2	1,373.79	1/2	1,926.91	1/2	2,518.12	1/2	3,135.35	1/2	3,767.91	1/2	4,405.77	1/2	5,039.14
3/4	127.09	3/4	453.50	3/4	883.16	3/4	1,384.82	3/4	1,938.88	3/4	2,530.75	3/4	3,148.40	3/4	3,781.18	3/4	4,419.04	3/4	5,052.22
9	132.41	9	461.47	9	892.91	9	1,395.86	9	1,950.85	9	2,543.38	9	3,161.46	9	3,794.44	9	4,432.32	9	5,065.30
1/4	138.02	1/4	469.62	1/4	902.79	1/4	1,406.98	1/4	1,962.88	1/4	2,556.05	1/4	3,174.54	1/4	3,807.72	1/4	4,445.59	1/4	5,078.36
1/2	143.63	1/2	477.77	1/2	912.66	1/2	1,418.10	1/2	1,974.91	1/2	2,568.72	1/2	3,187.62	1/2	3,821.00	1/2	4,458.85	1/2	5,091.41
3/4	149.24	3/4	485.91	3/4	922.53	3/4	1,429.22	3/4	1,986.94	3/4	2,581.39	3/4	3,200.70	3/4	3,834.27	3/4	4,472.12	3/4	5,104.47
10	154.86	10	494.06	10	932.41	10	1,440.34	10	1,998.97	10	2,594.06	10	3,213.78	10	3,847.55	10	4,485.39	10	5,117.52
1/4	160.75	1/4	502.38	1/4	942.40	1/4	1,451.55	1/4	2,011.06	1/4	2,606.77	1/4	3,226.89	1/4	3,860.83	1/4	4,498.65	1/4	5,130.55
1/2	166.63	1/2	510.69	1/2	952.40	1/2	1,462.76	1/2	2,023.15	1/2	2,619.48	1/2	3,239.99	1/2	3,874.12	1/2	4,511.91	1/2	5,143.58
3/4	172.52	3/4	519.01	3/4	962.39	3/4	1,473.97	3/4	2,035.25	3/4	2,632.20	3/4	3,253.09	3/4	3,887.40	3/4	4,525.16	3/4	5,156.60
11	178.41	11	527.33	11	972.38	11	1,485.18	11	2,047.34	11	2,644.91	11	3,266.20	11	3,900.68	11	4,538.42	11	5,169.63
1/4	184.49	1/4	535.81	1/4	982.49	1/4	1,496.47	1/4	2,059.49	1/4	2,657.67	1/4	3,279.33	1/4	3,913.97	1/4	4,551.67	1/4	5,182.63
1/2	190.57	1/2	544.28	1/2	992.60	1/2	1,507.77	1/2	2,071.65	1/2	2,670.42	1/2	3,292.45	1/2	3,927.26	1/2	4,564.91	1/2	5,195.63
3/4	196.65	3/4	552.76	3/4	1,002.71	3/4	1,519.06	3/4	2,083.80	3/4	2,683.17	3/4	3,305.58	3/4	3,940.55	3/4	4,578.16	3/4	5,208.63

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.2E  
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  
INSIDE DIAMETER = 16'-06"

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# BARGE "EMS 407P"

## PORT HORIZONTAL INNAGE TABLE

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	5,221.63	0	5,834.38	0	6,418.74	0	6,962.18	0	7,449.29	0	7,857.52	0	8,151.52	0		0		0	
1/4	5,234.60	1/4	5,846.87	1/4	6,430.50	1/4	6,972.93	1/4	7,458.65	1/4	7,864.93	1/4	8,155.75	1/4		1/4		1/4	
1/2	5,247.56	1/2	5,859.35	1/2	6,442.26	1/2	6,983.68	1/2	7,468.01	1/2	7,872.34	1/2	8,159.98	1/2		1/2		1/2	
3/4	5,260.53	3/4	5,871.84	3/4	6,454.02	3/4	6,994.42	3/4	7,477.38	3/4	7,879.75	3/4	8,164.20	3/4		3/4		3/4	
1	5,273.50	1	5,884.32	1	6,465.78	1	7,005.17	1	7,486.74	1	7,887.17	1	8,168.43	1		1		1	
1/4	5,286.44	1/4	5,896.76	1/4	6,477.46	1/4	7,015.82	1/4	7,495.96	1/4	7,894.38	1/4	8,172.25	1/4		1/4		1/4	
1/2	5,299.37	1/2	5,909.19	1/2	6,489.15	1/2	7,026.46	1/2	7,505.19	1/2	7,901.59	1/2	8,176.07	1/2		1/2		1/2	
3/4	5,312.31	3/4	5,921.63	3/4	6,500.84	3/4	7,037.11	3/4	7,514.41	3/4	7,908.80	3/4	8,179.89	3/4		3/4		3/4	
2	5,325.25	2	5,934.06	2	6,512.52	2	7,047.76	2	7,523.64	2	7,916.01	2	8,183.72	2		2		2	
1/4	5,338.15	1/4	5,946.44	1/4	6,524.14	1/4	7,058.30	1/4	7,532.72	1/4	7,923.02	1/4	8,187.08	1/4		1/4		1/4	
1/2	5,351.05	1/2	5,958.83	1/2	6,535.75	1/2	7,068.85	1/2	7,541.80	1/2	7,930.02	1/2	8,190.45	1/2		1/2		1/2	
3/4	5,363.96	3/4	5,971.21	3/4	6,547.36	3/4	7,079.39	3/4	7,550.89	3/4	7,937.03	3/4	8,193.81	3/4		3/4		3/4	
3	5,376.86	3	5,983.59	3	6,558.97	3	7,089.94	3	7,559.97	3	7,944.03	3	8,197.18	3		3		3	
1/4	5,389.73	1/4	5,995.92	1/4	6,570.51	1/4	7,100.38	1/4	7,568.91	1/4	7,950.82	1/4	8,200.01	1/4		1/4		1/4	
1/2	5,402.60	1/2	6,008.24	1/2	6,582.04	1/2	7,110.82	1/2	7,577.85	1/2	7,957.60	1/2	8,202.85	1/2		1/2		1/2	
3/4	5,415.47	3/4	6,020.57	3/4	6,593.58	3/4	7,121.26	3/4	7,586.79	3/4	7,964.39	3/4	8,205.68	3/4		3/4		3/4	
4	5,428.34	4	6,032.90	4	6,605.12	4	7,131.70	4	7,595.73	4	7,971.18	4	8,208.52	4		4		4	
1/4	5,441.17	1/4	6,045.17	1/4	6,616.57	1/4	7,142.03	1/4	7,604.37	1/4	7,977.74	1/4	8,210.69	1/4		1/4		1/4	
1/2	5,454.00	1/2	6,057.44	1/2	6,628.03	1/2	7,152.36	1/2	7,613.02	1/2	7,984.30	1/2	8,212.86	1/2		1/2		1/2	
3/4	5,466.83	3/4	6,069.72	3/4	6,639.49	3/4	7,162.70	3/4	7,621.66	3/4	7,990.86	3/4	8,215.04	3/4		3/4		3/4	
5	5,479.67	5	6,081.99	5	6,650.94	5	7,173.03	5	7,630.31	5	7,997.42	5	8,217.21	5		5		5	
1/4	5,492.46	1/4	6,094.20	1/4	6,662.32	1/4	7,183.25	1/4	7,638.80	1/4	8,003.75	1/4	8,218.37	1/4		1/4		1/4	
1/2	5,505.26	1/2	6,106.42	1/2	6,673.69	1/2	7,193.47	1/2	7,647.29	1/2	8,010.07	1/2	8,219.52	1/2		1/2		1/2	
3/4	5,518.05	3/4	6,118.63	3/4	6,685.07	3/4	7,203.70	3/4	7,655.78	3/4	8,016.40	3/4	8,220.68	3/4		3/4		3/4	
6	5,530.85	6	6,130.84	6	6,696.45	6	7,213.92	6	7,664.28	6	8,022.72	6	8,221.83	6		6		6	
1/4	5,543.60	1/4	6,143.00	1/4	6,707.74	1/4	7,224.03	1/4	7,672.75	1/4	8,028.80	1/4		1/4		1/4		1/4	
1/2	5,556.36	1/2	6,155.15	1/2	6,719.03	1/2	7,234.13	1/2	7,681.23	1/2	8,034.88	1/2		1/2		1/2		1/2	
3/4	5,569.11	3/4	6,167.31	3/4	6,730.33	3/4	7,244.24	3/4	7,689.71	3/4	8,040.95	3/4		3/4		3/4		3/4	
7	5,581.87	7	6,179.46	7	6,741.62	7	7,254.35	7	7,698.19	7	8,047.03	7		7		7		7	
1/4	5,594.58	1/4	6,191.56	1/4	6,752.83	1/4	7,264.34	1/4	7,706.50	1/4	8,052.84	1/4		1/4		1/4		1/4	
1/2	5,607.29	1/2	6,203.65	1/2	6,764.03	1/2	7,274.34	1/2	7,714.82	1/2	8,058.66	1/2		1/2		1/2		1/2	
3/4	5,620.01	3/4	6,215.74	3/4	6,775.24	3/4	7,284.33	3/4	7,723.13	3/4	8,064.47	3/4		3/4		3/4		3/4	
8	5,632.72	8	6,227.84	8	6,786.45	8	7,294.32	8	7,731.45	8	8,070.29	8		8		8		8	
1/4	5,645.39	1/4	6,239.87	1/4	6,797.57	1/4	7,304.20	1/4	7,739.60	1/4	8,075.83	1/4		1/4		1/4		1/4	
1/2	5,658.07	1/2	6,251.90	1/2	6,808.69	1/2	7,314.07	1/2	7,747.74	1/2	8,081.36	1/2		1/2		1/2		1/2	
3/4	5,670.74	3/4	6,263.93	3/4	6,819.81	3/4	7,323.94	3/4	7,755.89	3/4	8,086.90	3/4		3/4		3/4		3/4	
9	5,683.41	9	6,275.96	9	6,830.93	9	7,333.81	9	7,764.03	9	8,092.44	9		9		9		9	
1/4	5,696.04	1/4	6,287.93	1/4	6,841.96	1/4	7,343.56	1/4	7,772.01	1/4	8,097.69	1/4		1/4		1/4		1/4	
1/2	5,708.66	1/2	6,299.89	1/2	6,852.99	1/2	7,353.31	1/2	7,779.98	1/2	8,102.93	1/2		1/2		1/2		1/2	
3/4	5,721.29	3/4	6,311.86	3/4	6,864.02	3/4	7,363.06	3/4	7,787.95	3/4	8,108.18	3/4		3/4		3/4		3/4	
10	5,733.92	10	6,323.82	10	6,875.05	10	7,372.82	10	7,795.92	10	8,113.42	10		10		10		10	
1/4	5,746.50	1/4	6,335.72	1/4	6,885.99	1/4	7,382.44	1/4	7,803.72	1/4	8,118.35	1/4		1/4		1/4		1/4	
1/2	5,759.08	1/2	6,347.62	1/2	6,896.93	1/2	7,392.06	1/2	7,811.51	1/2	8,123.28	1/2		1/2		1/2		1/2	
3/4	5,771.66	3/4	6,359.52	3/4	6,907.87	3/4	7,401.69	3/4	7,819.30	3/4	8,128.22	3/4		3/4		3/4		3/4	
11	5,784.25	11	6,371.42	11	6,918.81	11	7,411.31	11	7,827.09	11	8,133.15	11		11		11		11	
1/4	5,796.78	1/4	6,383.25	1/4	6,929.65	1/4	7,420.81	1/4	7,834.70	1/4	8,137.74	1/4		1/4		1/4		1/4	
1/2	5,809.31	1/2	6,395.08	1/2	6,940.49	1/2	7,430.30	1/2	7,842.30	1/2	8,142.33	1/2		1/2		1/2		1/2	
3/4	5,821.85	3/4	6,406.91	3/4	6,951.34	3/4	7,439.80	3/4	7,849.91	3/4	8,146.93	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/26/2015 SW  
CALCULATED: 08/26/2015 CL  
PRINTED: 08/26/2015 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2015

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



# BARGE "EMS 407P"

## STBD HORIZONTAL INNAGE TABLE

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	0.35	0	202.71	0	561.21	0	1,012.77	0	1,530.28	0	2,095.87	0	2,695.83	0	3,318.59	0	3,953.71	0	4,591.26
1/4	1.58	1/4	209.03	1/4	569.85	1/4	1,022.99	1/4	1,541.66	1/4	2,108.09	1/4	2,708.62	1/4	3,331.74	1/4	3,967.00	1/4	4,604.50
1/2	2.81	1/2	215.36	1/2	578.49	1/2	1,033.22	1/2	1,553.04	1/2	2,120.30	1/2	2,721.41	1/2	3,344.89	1/2	3,980.29	1/2	4,617.73
3/4	4.04	3/4	221.69	3/4	587.12	3/4	1,043.44	3/4	1,564.42	3/4	2,132.51	3/4	2,734.21	3/4	3,358.04	3/4	3,993.59	3/4	4,630.97
1	5.26	1	228.01	1	595.76	1	1,053.66	1	1,575.79	1	2,144.73	1	2,747.00	1	3,371.19	1	4,006.88	1	4,644.20
1/4	7.51	1/4	234.57	1/4	604.55	1/4	1,064.00	1/4	1,575.25	1/4	2,157.00	1/4	2,759.83	1/4	3,384.36	1/4	4,020.17	1/4	4,657.42
1/2	9.76	1/2	241.14	1/2	613.34	1/2	1,074.33	1/2	1,598.71	1/2	2,169.27	1/2	2,772.66	1/2	3,397.52	1/2	4,033.47	1/2	4,670.64
3/4	12.01	3/4	247.70	3/4	622.13	3/4	1,084.66	3/4	1,610.17	3/4	2,181.54	3/4	2,785.49	3/4	3,410.69	3/4	4,046.77	3/4	4,683.86
2	14.26	2	254.26	2	630.92	2	1,095.00	2	1,621.62	2	2,193.81	2	2,798.32	2	3,423.86	2	4,060.06	2	4,697.08
1/4	17.16	1/4	261.05	1/4	639.86	1/4	1,105.44	1/4	1,633.16	1/4	2,206.14	1/4	2,811.19	1/4	3,437.05	1/4	4,073.36	1/4	4,710.28
1/2	20.07	1/2	267.84	1/2	648.80	1/2	1,115.88	1/2	1,644.69	1/2	2,218.47	1/2	2,824.06	1/2	3,450.23	1/2	4,086.66	1/2	4,723.48
3/4	22.98	3/4	274.63	3/4	657.74	3/4	1,126.32	3/4	1,656.23	3/4	2,230.79	3/4	2,836.93	3/4	3,463.42	3/4	4,099.95	3/4	4,736.69
3	25.89	3	281.42	3	666.68	3	1,136.76	3	1,667.76	3	2,243.12	3	2,849.80	3	3,476.61	3	4,113.25	3	4,749.89
1/4	29.33	1/4	288.43	1/4	675.77	1/4	1,147.31	1/4	1,679.38	1/4	2,255.50	1/4	2,862.70	1/4	3,489.81	1/4	4,126.55	1/4	4,763.08
1/2	32.77	1/2	295.43	1/2	684.85	1/2	1,157.85	1/2	1,690.99	1/2	2,267.88	1/2	2,875.60	1/2	3,503.01	1/2	4,139.84	1/2	4,776.27
3/4	36.21	3/4	302.44	3/4	693.94	3/4	1,168.40	3/4	1,702.60	3/4	2,280.26	3/4	2,888.51	3/4	3,516.22	3/4	4,153.14	3/4	4,789.45
4	39.65	4	309.45	4	703.02	4	1,178.94	4	1,714.21	4	2,292.65	4	2,901.41	4	3,529.42	4	4,166.44	4	4,802.64
1/4	43.54	1/4	316.66	1/4	712.25	1/4	1,189.59	1/4	1,725.90	1/4	2,305.08	1/4	2,914.35	1/4	3,542.64	1/4	4,179.73	1/4	4,815.81
1/2	47.44	1/2	323.87	1/2	721.47	1/2	1,200.24	1/2	1,737.58	1/2	2,317.51	1/2	2,927.28	1/2	3,555.86	1/2	4,193.03	1/2	4,828.98
3/4	51.33	3/4	331.08	3/4	730.70	3/4	1,210.89	3/4	1,749.27	3/4	2,329.95	3/4	2,940.22	3/4	3,569.08	3/4	4,206.32	3/4	4,842.14
5	55.23	5	338.30	5	739.93	5	1,221.54	5	1,760.96	5	2,342.38	5	2,953.16	5	3,582.30	5	4,219.62	5	4,855.31
1/4	59.53	1/4	345.71	1/4	749.29	1/4	1,232.28	1/4	1,772.71	1/4	2,354.87	1/4	2,966.12	1/4	3,595.53	1/4	4,232.91	1/4	4,868.46
1/2	63.83	1/2	353.12	1/2	758.65	1/2	1,243.03	1/2	1,784.47	1/2	2,367.35	1/2	2,979.09	1/2	3,608.77	1/2	4,246.21	1/2	4,881.61
3/4	68.13	3/4	360.54	3/4	768.01	3/4	1,253.78	3/4	1,796.23	3/4	2,379.84	3/4	2,992.06	3/4	3,622.00	3/4	4,259.50	3/4	4,894.76
6	72.43	6	367.95	6	777.38	6	1,264.53	6	1,807.99	6	2,392.32	6	3,005.03	6	3,635.23	6	4,272.79	6	4,907.91
1/4	77.10	1/4	375.56	1/4	786.87	1/4	1,275.37	1/4	1,819.82	1/4	2,404.85	1/4	3,018.03	1/4	3,648.48	1/4	4,286.08	1/4	4,921.03
1/2	81.77	1/2	383.16	1/2	796.37	1/2	1,286.22	1/2	1,831.65	1/2	2,417.39	1/2	3,031.02	1/2	3,661.73	1/2	4,299.37	1/2	4,934.16
3/4	86.43	3/4	390.77	3/4	805.86	3/4	1,297.06	3/4	1,843.48	3/4	2,429.92	3/4	3,044.02	3/4	3,674.97	3/4	4,312.66	3/4	4,947.29
7	91.10	7	398.38	7	815.36	7	1,307.91	7	1,855.31	7	2,442.45	7	3,057.02	7	3,688.22	7	4,325.95	7	4,960.41
1/4	96.11	1/4	406.17	1/4	824.98	1/4	1,318.85	1/4	1,867.21	1/4	2,455.03	1/4	3,070.05	1/4	3,701.48	1/4	4,339.23	1/4	4,973.52
1/2	101.11	1/2	413.96	1/2	834.61	1/2	1,329.79	1/2	1,879.11	1/2	2,467.61	1/2	3,083.08	1/2	3,714.73	1/2	4,352.51	1/2	4,986.62
3/4	106.12	3/4	421.76	3/4	844.23	3/4	1,340.72	3/4	1,891.00	3/4	2,480.19	3/4	3,096.10	3/4	3,727.99	3/4	4,365.79	3/4	4,999.73
8	111.12	8	429.55	8	853.86	8	1,351.66	8	1,902.90	8	2,492.77	8	3,109.13	8	3,741.25	8	4,379.08	8	5,012.83
1/4	116.44	1/4	437.52	1/4	863.61	1/4	1,362.70	1/4	1,914.87	1/4	2,505.40	1/4	3,122.18	1/4	3,754.52	1/4	4,392.35	1/4	5,025.91
1/2	121.76	1/2	445.50	1/2	873.36	1/2	1,373.73	1/2	1,926.83	1/2	2,518.03	1/2	3,135.24	1/2	3,767.78	1/2	4,405.63	1/2	5,038.99
3/4	127.08	3/4	453.47	3/4	883.11	3/4	1,384.76	3/4	1,938.80	3/4	2,530.65	3/4	3,148.29	3/4	3,781.05	3/4	4,418.90	3/4	5,052.07
9	132.40	9	461.44	9	892.86	9	1,395.79	9	1,950.76	9	2,543.28	9	3,161.35	9	3,794.32	9	4,432.18	9	5,065.15
1/4	138.01	1/4	469.59	1/4	902.74	1/4	1,406.91	1/4	1,962.79	1/4	2,555.95	1/4	3,174.43	1/4	3,807.59	1/4	4,445.45	1/4	5,078.21
1/2	143.62	1/2	477.74	1/2	912.61	1/2	1,418.03	1/2	1,974.82	1/2	2,568.62	1/2	3,187.51	1/2	3,820.87	1/2	4,458.72	1/2	5,091.26
3/4	149.23	3/4	485.88	3/4	922.48	3/4	1,429.15	3/4	1,986.85	3/4	2,581.29	3/4	3,200.59	3/4	3,834.15	3/4	4,471.98	3/4	5,104.31
10	154.85	10	494.03	10	932.36	10	1,440.27	10	1,998.88	10	2,593.96	10	3,213.67	10	3,847.42	10	4,485.25	10	5,117.37
1/4	160.73	1/4	502.35	1/4	942.35	1/4	1,451.48	1/4	2,010.98	1/4	2,606.67	1/4	3,226.77	1/4	3,860.71	1/4	4,498.51	1/4	5,130.40
1/2	166.62	1/2	510.66	1/2	952.35	1/2	1,462.69	1/2	2,023.07	1/2	2,619.39	1/2	3,239.88	1/2	3,873.99	1/2	4,511.76	1/2	5,143.42
3/4	172.51	3/4	518.98	3/4	962.34	3/4	1,473.90	3/4	2,035.16	3/4	2,632.10	3/4	3,252.98	3/4	3,887.27	3/4	4,525.02	3/4	5,156.45
11	178.40	11	527.29	11	972.33	11	1,485.11	11	2,047.25	11	2,644.81	11	3,266.08	11	3,900.55	11	4,538.28	11	5,169.48
1/4	184.48	1/4	535.77	1/4	982.44	1/4	1,496.40	1/4	2,059.41	1/4	2,657.56	1/4	3,279.21	1/4	3,913.84	1/4	4,551.53	1/4	5,182.48
1/2	190.55	1/2	544.25	1/2	992.55	1/2	1,507.70	1/2	2,071.56	1/2	2,670.32	1/2	3,292.34	1/2	3,927.13	1/2	4,564.77	1/2	5,195.47
3/4	196.63	3/4	552.73	3/4	1,002.66	3/4	1,518.99	3/4	2,083.72	3/4	2,683.07	3/4	3,305.47	3/4	3,940.42	3/4	4,578.02	3/4	5,208.47

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.2E  
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  
INSIDE DIAMETER = 16'-06"

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
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# BARGE "EMS 407P"

## STBD HORIZONTAL INNAGE TABLE

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	5,221.47	0	5,834.21	0	6,418.55	0	6,961.98	0	7,449.07	0	7,857.27	0	8,151.26	0		0		0	
1/4	5,234.44	1/4	5,846.70	1/4	6,430.31	1/4	6,972.73	1/4	7,458.43	1/4	7,864.69	1/4	8,155.49	1/4		1/4		1/4	
1/2	5,247.41	1/2	5,859.18	1/2	6,442.07	1/2	6,983.47	1/2	7,467.79	1/2	7,872.10	1/2	8,159.72	1/2		1/2		1/2	
3/4	5,260.38	3/4	5,871.67	3/4	6,453.83	3/4	6,994.22	3/4	7,477.15	3/4	7,879.51	3/4	8,163.94	3/4		3/4		3/4	
1	5,273.34	1	5,884.15	1	6,465.59	1	7,004.96	1	7,486.51	1	7,886.92	1	8,168.17	1		1		1	
1/4	5,286.28	1/4	5,896.59	1/4	6,477.28	1/4	7,015.61	1/4	7,495.74	1/4	7,894.13	1/4	8,171.99	1/4		1/4		1/4	
1/2	5,299.22	1/2	5,909.02	1/2	6,488.96	1/2	7,026.26	1/2	7,504.96	1/2	7,901.35	1/2	8,175.81	1/2		1/2		1/2	
3/4	5,312.15	3/4	5,921.45	3/4	6,500.65	3/4	7,036.90	3/4	7,514.19	3/4	7,908.56	3/4	8,179.63	3/4		3/4		3/4	
2	5,325.09	2	5,933.89	2	6,512.34	2	7,047.55	2	7,523.41	2	7,915.77	2	8,183.46	2		2		2	
1/4	5,337.99	1/4	5,946.27	1/4	6,523.95	1/4	7,058.10	1/4	7,532.50	1/4	7,922.77	1/4	8,186.82	1/4		1/4		1/4	
1/2	5,350.90	1/2	5,958.65	1/2	6,535.56	1/2	7,068.64	1/2	7,541.58	1/2	7,929.78	1/2	8,190.19	1/2		1/2		1/2	
3/4	5,363.80	3/4	5,971.03	3/4	6,547.17	3/4	7,079.19	3/4	7,550.66	3/4	7,936.78	3/4	8,193.55	3/4		3/4		3/4	
3	5,376.70	3	5,983.42	3	6,558.78	3	7,089.73	3	7,559.75	3	7,943.78	3	8,196.92	3		3		3	
1/4	5,389.57	1/4	5,995.74	1/4	6,570.32	1/4	7,100.17	1/4	7,568.68	1/4	7,950.57	1/4	8,199.75	1/4		1/4		1/4	
1/2	5,402.44	1/2	6,008.07	1/2	6,581.85	1/2	7,110.61	1/2	7,577.62	1/2	7,957.36	1/2	8,202.58	1/2		1/2		1/2	
3/4	5,415.31	3/4	6,020.40	3/4	6,593.39	3/4	7,121.05	3/4	7,586.56	3/4	7,964.14	3/4	8,205.42	3/4		3/4		3/4	
4	5,428.18	4	6,032.72	4	6,604.92	4	7,131.49	4	7,595.50	4	7,970.93	4	8,208.25	4		4		4	
1/4	5,441.01	1/4	6,045.00	1/4	6,616.38	1/4	7,141.82	1/4	7,604.15	1/4	7,977.49	1/4	8,210.43	1/4		1/4		1/4	
1/2	5,453.84	1/2	6,057.27	1/2	6,627.84	1/2	7,152.15	1/2	7,612.79	1/2	7,984.05	1/2	8,212.60	1/2		1/2		1/2	
3/4	5,466.67	3/4	6,069.54	3/4	6,639.29	3/4	7,162.49	3/4	7,621.44	3/4	7,990.61	3/4	8,214.77	3/4		3/4		3/4	
5	5,479.50	5	6,081.81	5	6,650.75	5	7,172.82	5	7,630.08	5	7,997.17	5	8,216.95	5		5		5	
1/4	5,492.30	1/4	6,094.02	1/4	6,662.13	1/4	7,183.04	1/4	7,638.57	1/4	8,003.50	1/4	8,218.10	1/4		1/4		1/4	
1/2	5,505.09	1/2	6,106.24	1/2	6,673.50	1/2	7,193.26	1/2	7,647.06	1/2	8,009.82	1/2	8,219.26	1/2		1/2		1/2	
3/4	5,517.89	3/4	6,118.45	3/4	6,684.88	3/4	7,203.48	3/4	7,655.55	3/4	8,016.15	3/4	8,220.41	3/4		3/4		3/4	
6	5,530.68	6	6,130.67	6	6,696.25	6	7,213.71	6	7,664.05	6	8,022.47	6	8,221.57	6		6		6	
1/4	5,543.44	1/4	6,142.82	1/4	6,707.55	1/4	7,223.81	1/4	7,672.52	1/4	8,028.55	1/4		1/4		1/4		1/4	
1/2	5,556.19	1/2	6,154.98	1/2	6,718.84	1/2	7,233.92	1/2	7,681.00	1/2	8,034.62	1/2		1/2		1/2		1/2	
3/4	5,568.95	3/4	6,167.13	3/4	6,730.13	3/4	7,244.03	3/4	7,689.48	3/4	8,040.70	3/4		3/4		3/4		3/4	
7	5,581.70	7	6,179.28	7	6,741.42	7	7,254.14	7	7,697.96	7	8,046.78	7		7		7		7	
1/4	5,594.42	1/4	6,191.38	1/4	6,752.63	1/4	7,264.13	1/4	7,706.27	1/4	8,052.59	1/4		1/4		1/4		1/4	
1/2	5,607.13	1/2	6,203.47	1/2	6,763.84	1/2	7,274.12	1/2	7,714.59	1/2	8,058.40	1/2		1/2		1/2		1/2	
3/4	5,619.84	3/4	6,215.56	3/4	6,775.05	3/4	7,284.12	3/4	7,722.90	3/4	8,064.22	3/4		3/4		3/4		3/4	
8	5,632.56	8	6,227.66	8	6,786.25	8	7,294.11	8	7,731.21	8	8,070.03	8		8		8		8	
1/4	5,645.23	1/4	6,239.69	1/4	6,797.37	1/4	7,303.98	1/4	7,739.36	1/4	8,075.57	1/4		1/4		1/4		1/4	
1/2	5,657.90	1/2	6,251.72	1/2	6,808.49	1/2	7,313.85	1/2	7,747.51	1/2	8,081.11	1/2		1/2		1/2		1/2	
3/4	5,670.57	3/4	6,263.75	3/4	6,819.61	3/4	7,323.72	3/4	7,755.65	3/4	8,086.65	3/4		3/4		3/4		3/4	
9	5,683.24	9	6,275.78	9	6,830.73	9	7,333.60	9	7,763.80	9	8,092.19	9		9		9		9	
1/4	5,695.87	1/4	6,287.74	1/4	6,841.76	1/4	7,343.35	1/4	7,771.77	1/4	8,097.43	1/4		1/4		1/4		1/4	
1/2	5,708.50	1/2	6,299.71	1/2	6,852.79	1/2	7,353.10	1/2	7,779.74	1/2	8,102.68	1/2		1/2		1/2		1/2	
3/4	5,721.12	3/4	6,311.67	3/4	6,863.82	3/4	7,362.85	3/4	7,787.71	3/4	8,107.92	3/4		3/4		3/4		3/4	
10	5,733.75	10	6,323.64	10	6,874.85	10	7,372.60	10	7,795.69	10	8,113.16	10		10		10		10	
1/4	5,746.33	1/4	6,335.54	1/4	6,885.79	1/4	7,382.22	1/4	7,803.48	1/4	8,118.10	1/4		1/4		1/4		1/4	
1/2	5,758.91	1/2	6,347.44	1/2	6,896.73	1/2	7,391.84	1/2	7,811.27	1/2	8,123.03	1/2		1/2		1/2		1/2	
3/4	5,771.50	3/4	6,359.33	3/4	6,907.67	3/4	7,401.47	3/4	7,819.06	3/4	8,127.96	3/4		3/4		3/4		3/4	
11	5,784.08	11	6,371.23	11	6,918.61	11	7,411.09	11	7,826.85	11	8,132.89	11		11		11		11	
1/4	5,796.61	1/4	6,383.06	1/4	6,929.45	1/4	7,420.59	1/4	7,834.46	1/4	8,137.48	1/4		1/4		1/4		1/4	
1/2	5,809.15	1/2	6,394.89	1/2	6,940.29	1/2	7,430.08	1/2	7,842.06	1/2	8,142.08	1/2		1/2		1/2		1/2	
3/4	5,821.68	3/4	6,406.72	3/4	6,951.14	3/4	7,439.57	3/4	7,849.67	3/4	8,146.67	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/26/2015 SW  
CALCULATED: 08/26/2015 CL  
PRINTED: 08/26/2015 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2015

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



# BARGE "EMS 407P"

# PORT HORIZONTAL ULLAGE TABLE

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	8,221.83	0	8,022.72	0	7,664.28	0	7,213.92	0	6,696.45	0	6,130.84	0	5,530.85	0	4,908.05	0	4,272.93	0	3,635.36
1/4	8,220.68	1/4	8,016.40	1/4	7,655.78	1/4	7,203.70	1/4	6,685.07	1/4	6,118.63	1/4	5,518.05	1/4	4,894.91	1/4	4,259.63	1/4	3,622.12
1/2	8,219.52	1/2	8,010.07	1/2	7,647.29	1/2	7,193.47	1/2	6,673.69	1/2	6,106.42	1/2	5,505.26	1/2	4,881.76	1/2	4,246.34	1/2	3,608.89
3/4	8,218.37	3/4	8,003.75	3/4	7,638.80	3/4	7,183.25	3/4	6,662.32	3/4	6,094.20	3/4	5,492.46	3/4	4,868.61	3/4	4,233.05	3/4	3,595.66
1	8,217.21	1	7,997.42	1	7,630.31	1	7,173.03	1	6,650.94	1	6,081.99	1	5,479.67	1	4,855.46	1	4,219.75	1	3,582.42
1/4	8,215.04	1/4	7,990.86	1/4	7,621.66	1/4	7,162.70	1/4	6,639.49	1/4	6,069.72	1/4	5,466.83	1/4	4,842.29	1/4	4,206.46	1/4	3,569.20
1/2	8,212.86	1/2	7,984.30	1/2	7,613.02	1/2	7,152.36	1/2	6,628.03	1/2	6,057.44	1/2	5,454.00	1/2	4,829.12	1/2	4,193.16	1/2	3,555.98
3/4	8,210.69	3/4	7,977.74	3/4	7,604.37	3/4	7,142.03	3/4	6,616.57	3/4	6,045.17	3/4	5,441.17	3/4	4,815.95	3/4	4,179.87	3/4	3,542.76
2	8,208.52	2	7,971.18	2	7,595.73	2	7,131.70	2	6,605.12	2	6,032.90	2	5,428.34	2	4,802.79	2	4,166.57	2	3,529.54
1/4	8,205.68	1/4	7,964.39	1/4	7,586.79	1/4	7,121.26	1/4	6,593.58	1/4	6,020.57	1/4	5,415.47	1/4	4,789.60	1/4	4,153.27	1/4	3,516.34
1/2	8,202.85	1/2	7,957.60	1/2	7,577.85	1/2	7,110.82	1/2	6,582.04	1/2	6,008.24	1/2	5,402.60	1/2	4,776.41	1/2	4,139.98	1/2	3,503.13
3/4	8,200.01	3/4	7,950.82	3/4	7,568.91	3/4	7,100.38	3/4	6,570.51	3/4	5,995.92	3/4	5,389.73	3/4	4,763.22	3/4	4,126.68	3/4	3,489.93
3	8,197.18	3	7,944.03	3	7,559.97	3	7,089.94	3	6,558.97	3	5,983.59	3	5,376.86	3	4,750.04	3	4,113.38	3	3,476.73
1/4	8,193.81	1/4	7,937.03	1/4	7,550.89	1/4	7,079.39	1/4	6,547.36	1/4	5,971.21	1/4	5,363.96	1/4	4,736.83	1/4	4,100.08	1/4	3,463.54
1/2	8,190.45	1/2	7,930.02	1/2	7,541.80	1/2	7,068.85	1/2	6,535.75	1/2	5,958.83	1/2	5,351.05	1/2	4,723.63	1/2	4,086.79	1/2	3,450.35
3/4	8,187.08	3/4	7,923.02	3/4	7,532.72	3/4	7,058.30	3/4	6,524.14	3/4	5,946.44	3/4	5,338.15	3/4	4,710.42	3/4	4,073.49	3/4	3,437.17
4	8,183.72	4	7,916.01	4	7,523.64	4	7,047.76	4	6,512.52	4	5,934.06	4	5,325.25	4	4,697.22	4	4,060.19	4	3,423.98
1/4	8,179.89	1/4	7,908.80	1/4	7,514.41	1/4	7,037.11	1/4	6,500.84	1/4	5,921.63	1/4	5,312.31	1/4	4,684.00	1/4	4,046.90	1/4	3,410.81
1/2	8,176.07	1/2	7,901.59	1/2	7,505.19	1/2	7,026.46	1/2	6,489.15	1/2	5,909.19	1/2	5,299.37	1/2	4,670.78	1/2	4,033.60	1/2	3,397.64
3/4	8,172.25	3/4	7,894.38	3/4	7,495.96	3/4	7,015.82	3/4	6,477.46	3/4	5,896.76	3/4	5,286.44	3/4	4,657.56	3/4	4,020.31	3/4	3,384.47
5	8,168.43	5	7,887.17	5	7,486.74	5	7,005.17	5	6,465.78	5	5,884.32	5	5,273.50	5	4,644.34	5	4,007.01	5	3,371.30
1/4	8,164.20	1/4	7,879.75	1/4	7,477.38	1/4	6,994.42	1/4	6,454.02	1/4	5,871.84	1/4	5,260.53	1/4	4,631.11	1/4	3,993.72	1/4	3,358.15
1/2	8,159.98	1/2	7,872.34	1/2	7,468.01	1/2	6,983.68	1/2	6,442.26	1/2	5,859.35	1/2	5,247.56	1/2	4,617.87	1/2	3,980.42	1/2	3,345.01
3/4	8,155.75	3/4	7,864.93	3/4	7,458.65	3/4	6,972.93	3/4	6,430.50	3/4	5,846.87	3/4	5,234.60	3/4	4,604.64	3/4	3,967.13	3/4	3,331.86
6	8,151.52	6	7,857.52	6	7,449.29	6	6,962.18	6	6,418.74	6	5,834.38	6	5,221.63	6	4,591.41	6	3,953.84	6	3,318.71
1/4	8,146.93	1/4	7,849.91	1/4	7,439.80	1/4	6,951.34	1/4	6,406.91	1/4	5,821.85	1/4	5,208.63	1/4	4,578.16	1/4	3,940.55	1/4	3,305.58
1/2	8,142.33	1/2	7,842.30	1/2	7,430.30	1/2	6,940.49	1/2	6,395.08	1/2	5,809.31	1/2	5,195.63	1/2	4,564.91	1/2	3,927.26	1/2	3,292.45
3/4	8,137.74	3/4	7,834.70	3/4	7,420.81	3/4	6,929.65	3/4	6,383.25	3/4	5,796.78	3/4	5,182.63	3/4	4,551.67	3/4	3,913.97	3/4	3,279.33
7	8,133.15	7	7,827.09	7	7,411.31	7	6,918.61	7	6,371.42	7	5,784.25	7	5,169.63	7	4,538.42	7	3,900.68	7	3,266.20
1/4	8,128.22	1/4	7,819.30	1/4	7,401.69	1/4	6,907.87	1/4	6,359.52	1/4	5,771.66	1/4	5,156.60	1/4	4,525.16	1/4	3,887.40	1/4	3,253.09
1/2	8,123.28	1/2	7,811.51	1/2	7,392.06	1/2	6,896.93	1/2	6,347.62	1/2	5,759.08	1/2	5,143.58	1/2	4,511.91	1/2	3,874.12	1/2	3,239.99
3/4	8,118.35	3/4	7,803.72	3/4	7,382.44	3/4	6,885.99	3/4	6,335.72	3/4	5,746.50	3/4	5,130.55	3/4	4,498.65	3/4	3,860.83	3/4	3,226.89
8	8,113.42	8	7,795.92	8	7,372.82	8	6,875.05	8	6,323.82	8	5,733.92	8	5,117.52	8	4,485.39	8	3,847.55	8	3,213.78
1/4	8,108.18	1/4	7,787.95	1/4	7,363.06	1/4	6,864.02	1/4	6,311.86	1/4	5,721.29	1/4	5,104.47	1/4	4,472.12	1/4	3,834.27	1/4	3,200.70
1/2	8,102.93	1/2	7,779.98	1/2	7,353.31	1/2	6,852.99	1/2	6,299.89	1/2	5,708.66	1/2	5,091.41	1/2	4,458.85	1/2	3,821.00	1/2	3,187.62
3/4	8,097.69	3/4	7,772.01	3/4	7,343.56	3/4	6,841.96	3/4	6,287.93	3/4	5,696.04	3/4	5,078.36	3/4	4,445.59	3/4	3,807.72	3/4	3,174.54
9	8,092.44	9	7,764.03	9	7,333.81	9	6,830.93	9	6,275.96	9	5,683.41	9	5,065.30	9	4,432.32	9	3,794.44	9	3,161.46
1/4	8,086.90	1/4	7,755.89	1/4	7,323.94	1/4	6,819.81	1/4	6,263.93	1/4	5,670.74	1/4	5,052.22	1/4	4,419.04	1/4	3,781.18	1/4	3,148.40
1/2	8,081.36	1/2	7,747.74	1/2	7,314.07	1/2	6,808.69	1/2	6,251.90	1/2	5,658.07	1/2	5,039.14	1/2	4,405.77	1/2	3,767.91	1/2	3,135.35
3/4	8,075.83	3/4	7,739.60	3/4	7,304.20	3/4	6,797.57	3/4	6,239.87	3/4	5,645.39	3/4	5,026.06	3/4	4,392.49	3/4	3,754.64	3/4	3,122.30
10	8,070.29	10	7,731.45	10	7,294.32	10	6,786.45	10	6,227.84	10	5,632.72	10	5,012.98	10	4,379.21	10	3,741.37	10	3,109.24
1/4	8,064.47	1/4	7,723.13	1/4	7,284.33	1/4	6,775.24	1/4	6,215.74	1/4	5,620.01	1/4	4,999.88	1/4	4,365.93	1/4	3,728.12	1/4	3,096.21
1/2	8,058.66	1/2	7,714.82	1/2	7,274.34	1/2	6,764.03	1/2	6,203.65	1/2	5,607.29	1/2	4,986.77	1/2	4,352.65	1/2	3,714.86	1/2	3,083.19
3/4	8,052.84	3/4	7,706.50	3/4	7,264.34	3/4	6,752.83	3/4	6,191.56	3/4	5,594.58	3/4	4,973.67	3/4	4,339.37	3/4	3,701.60	3/4	3,070.16
11	8,047.03	11	7,698.19	11	7,254.35	11	6,741.62	11	6,179.46	11	5,581.87	11	4,960.56	11	4,326.08	11	3,688.34	11	3,057.13
1/4	8,040.95	1/4	7,689.71	1/4	7,244.24	1/4	6,730.33	1/4	6,167.31	1/4	5,569.11	1/4	4,947.44	1/4	4,312.79	1/4	3,675.10	1/4	3,044.13
1/2	8,034.88	1/2	7,681.23	1/2	7,234.13	1/2	6,719.03	1/2	6,155.15	1/2	5,556.36	1/2	4,934.31	1/2	4,299.50	1/2	3,661.85	1/2	3,031.13
3/4	8,028.80	3/4	7,672.75	3/4	7,224.03	3/4	6,707.74	3/4	6,143.00	3/4	5,543.60	3/4	4,921.18	3/4	4,286.22	3/4	3,648.60	3/4	3,018.14

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.2E  
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  
INSIDE DIAMETER = 16'-06"

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



# BARGE "EMS 407P"

# PORT HORIZONTAL ULLAGE TABLE

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	3,005.14	0	2,392.41	0	1,808.07	0	1,264.59	0	777.42	0	367.97	0	72.44	0		0		0	
1/4	2,992.17	1/4	2,379.93	1/4	1,796.31	1/4	1,253.84	1/4	768.06	1/4	360.56	1/4	68.13	1/4		1/4		1/4	
1/2	2,979.20	1/2	2,367.44	1/2	1,784.55	1/2	1,243.09	1/2	758.69	1/2	353.15	1/2	63.83	1/2		1/2		1/2	
3/4	2,966.23	3/4	2,354.96	3/4	1,772.79	3/4	1,232.35	3/4	749.33	3/4	345.73	3/4	59.53	3/4		3/4		3/4	
1	2,953.26	1	2,342.47	1	1,761.03	1	1,221.60	1	739.97	1	338.32	1	55.23	1		1		1	
1/4	2,940.33	1/4	2,330.04	1/4	1,749.35	1/4	1,210.95	1/4	730.74	1/4	331.11	1/4	51.34	1/4		1/4		1/4	
1/2	2,927.39	1/2	2,317.61	1/2	1,737.66	1/2	1,200.30	1/2	721.52	1/2	323.89	1/2	47.44	1/2		1/2		1/2	
3/4	2,914.45	3/4	2,305.17	3/4	1,725.97	3/4	1,189.65	3/4	712.29	3/4	316.68	3/4	43.54	3/4		3/4		3/4	
2	2,901.52	2	2,292.74	2	1,714.29	2	1,179.00	2	703.06	2	309.47	2	39.65	2		2		2	
1/4	2,888.61	1/4	2,280.36	1/4	1,702.67	1/4	1,168.46	1/4	693.98	1/4	302.46	1/4	36.21	1/4		1/4		1/4	
1/2	2,875.71	1/2	2,267.97	1/2	1,691.06	1/2	1,157.91	1/2	684.89	1/2	295.45	1/2	32.77	1/2		1/2		1/2	
3/4	2,862.81	3/4	2,255.59	3/4	1,679.45	3/4	1,147.36	3/4	675.81	3/4	288.45	3/4	29.33	3/4		3/4		3/4	
3	2,849.90	3	2,243.21	3	1,667.84	3	1,136.82	3	666.72	3	281.44	3	25.89	3		3		3	
1/4	2,837.03	1/4	2,230.88	1/4	1,656.30	1/4	1,126.38	1/4	657.78	1/4	274.65	1/4	22.98	1/4		1/4		1/4	
1/2	2,824.17	1/2	2,218.56	1/2	1,644.77	1/2	1,115.94	1/2	648.84	1/2	267.86	1/2	20.07	1/2		1/2		1/2	
3/4	2,811.30	3/4	2,206.23	3/4	1,633.23	3/4	1,105.49	3/4	639.90	3/4	261.07	3/4	17.17	3/4		3/4		3/4	
4	2,798.43	4	2,193.90	4	1,621.70	4	1,095.05	4	630.96	4	254.28	4	14.26	4		4		4	
1/4	2,785.60	1/4	2,181.63	1/4	1,610.24	1/4	1,084.72	1/4	622.17	1/4	247.72	1/4	12.01	1/4		1/4		1/4	
1/2	2,772.77	1/2	2,169.36	1/2	1,598.78	1/2	1,074.38	1/2	613.38	1/2	241.15	1/2	9.76	1/2		1/2		1/2	
3/4	2,759.93	3/4	2,157.09	3/4	1,587.32	3/4	1,064.05	3/4	604.59	3/4	234.59	3/4	7.51	3/4		3/4		3/4	
5	2,747.10	5	2,144.81	5	1,575.86	5	1,053.72	5	595.79	5	228.03	5	5.27	5		5		5	
1/4	2,734.31	1/4	2,132.60	1/4	1,564.49	1/4	1,043.49	1/4	587.16	1/4	221.70	1/4	4.04	1/4		1/4		1/4	
1/2	2,721.52	1/2	2,120.39	1/2	1,553.11	1/2	1,033.27	1/2	578.52	1/2	215.38	1/2	2.81	1/2		1/2		1/2	
3/4	2,708.72	3/4	2,108.17	3/4	1,541.73	3/4	1,023.05	3/4	569.88	3/4	209.05	3/4	1.58	3/4		3/4		3/4	
6	2,695.93	6	2,095.96	6	1,530.35	6	1,012.82	6	561.24	6	202.72	6	0.35	6		6		6	
1/4	2,683.17	1/4	2,083.80	1/4	1,519.06	1/4	1,002.71	1/4	552.76	1/4	196.65	1/4		1/4		1/4		1/4	
1/2	2,670.42	1/2	2,071.65	1/2	1,507.77	1/2	992.60	1/2	544.28	1/2	190.57	1/2		1/2		1/2		1/2	
3/4	2,657.67	3/4	2,059.49	3/4	1,496.47	3/4	982.49	3/4	535.81	3/4	184.49	3/4		3/4		3/4		3/4	
7	2,644.91	7	2,047.34	7	1,485.18	7	972.38	7	527.33	7	178.41	7		7		7		7	
1/4	2,632.20	1/4	2,035.25	1/4	1,473.97	1/4	962.39	1/4	519.01	1/4	172.52	1/4		1/4		1/4		1/4	
1/2	2,619.48	1/2	2,023.15	1/2	1,462.76	1/2	952.40	1/2	510.69	1/2	166.63	1/2		1/2		1/2		1/2	
3/4	2,606.77	3/4	2,011.06	3/4	1,451.55	3/4	942.40	3/4	502.38	3/4	160.75	3/4		3/4		3/4		3/4	
8	2,594.06	8	1,998.97	8	1,440.34	8	932.41	8	494.06	8	154.86	8		8		8		8	
1/4	2,581.39	1/4	1,986.94	1/4	1,429.22	1/4	922.53	1/4	485.91	1/4	149.24	1/4		1/4		1/4		1/4	
1/2	2,568.72	1/2	1,974.91	1/2	1,418.10	1/2	912.66	1/2	477.77	1/2	143.63	1/2		1/2		1/2		1/2	
3/4	2,556.05	3/4	1,962.88	3/4	1,406.98	3/4	902.79	3/4	469.62	3/4	138.02	3/4		3/4		3/4		3/4	
9	2,543.38	9	1,950.85	9	1,395.86	9	892.91	9	461.47	9	132.41	9		9		9		9	
1/4	2,530.75	1/4	1,938.88	1/4	1,384.82	1/4	883.16	1/4	453.50	1/4	127.09	1/4		1/4		1/4		1/4	
1/2	2,518.12	1/2	1,926.91	1/2	1,373.79	1/2	873.41	1/2	445.52	1/2	121.77	1/2		1/2		1/2		1/2	
3/4	2,505.50	3/4	1,914.95	3/4	1,362.76	3/4	863.66	3/4	437.55	3/4	116.45	3/4		3/4		3/4		3/4	
10	2,492.87	10	1,902.98	10	1,351.73	10	853.90	10	429.58	10	111.13	10		10		10		10	
1/4	2,480.29	1/4	1,891.09	1/4	1,340.79	1/4	844.28	1/4	421.78	1/4	106.12	1/4		1/4		1/4		1/4	
1/2	2,467.71	1/2	1,879.19	1/2	1,329.85	1/2	834.65	1/2	413.99	1/2	101.12	1/2		1/2		1/2		1/2	
3/4	2,455.13	3/4	1,867.29	3/4	1,318.91	3/4	825.03	3/4	406.20	3/4	96.11	3/4		3/4		3/4		3/4	
11	2,442.55	11	1,855.39	11	1,307.97	11	815.40	11	398.40	11	91.11	11		11		11		11	
1/4	2,430.01	1/4	1,843.56	1/4	1,297.12	1/4	805.91	1/4	390.80	1/4	86.44	1/4		1/4		1/4		1/4	
1/2	2,417.48	1/2	1,831.73	1/2	1,286.28	1/2	796.41	1/2	383.19	1/2	81.77	1/2		1/2		1/2		1/2	
3/4	2,404.95	3/4	1,819.90	3/4	1,275.43	3/4	786.91	3/4	375.58	3/4	77.10	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/26/2015 SW  
CALCULATED: 08/26/2015 CL  
PRINTED: 08/26/2015 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2015

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
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# BARGE "EMS 407P"

## STBD HORIZONTAL ULLAGE TABLE

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	8,221.57		0	8,022.47		0	7,664.05		0	7,213.71		0	6,696.25		0	6,130.67		0	5,530.68		0	4,907.91		0	4,272.79		0	3,635.23	
1/4	8,220.41	1/4	8,016.15	1/4	7,655.55	1/4	7,203.48	1/4	6,684.88	1/4	6,118.45	1/4	5,517.89	1/4	4,894.76	1/4	4,259.50	1/4	3,622.00	1/4						1/4	3,259.50	1/4	2,516.22
1/2	8,219.26	1/2	8,009.82	1/2	7,647.06	1/2	7,193.26	1/2	6,673.50	1/2	6,106.24	1/2	5,505.09	1/2	4,881.61	1/2	4,246.21	1/2	3,608.77	1/2						1/2	3,246.21	1/2	2,503.01
3/4	8,218.10	3/4	8,003.50	3/4	7,638.57	3/4	7,183.04	3/4	6,662.13	3/4	6,094.02	3/4	5,492.30	3/4	4,868.46	3/4	4,232.91	3/4	3,595.53	3/4						3/4	3,232.91	3/4	2,489.81
1	8,216.95	1	7,997.17	1	7,630.08	1	7,172.82	1	6,650.75	1	6,081.81	1	5,479.50	1	4,855.31	1	4,219.62	1	3,582.30	1						1	3,219.62	1	2,476.61
1/4	8,214.77	1/4	7,990.61	1/4	7,621.44	1/4	7,162.49	1/4	6,639.29	1/4	6,069.54	1/4	5,466.67	1/4	4,842.14	1/4	4,206.32	1/4	3,569.08	1/4						1/4	3,206.32	1/4	2,463.42
1/2	8,212.60	1/2	7,984.05	1/2	7,612.79	1/2	7,152.15	1/2	6,627.84	1/2	6,057.27	1/2	5,453.84	1/2	4,828.98	1/2	4,193.03	1/2	3,555.86	1/2						1/2	3,193.03	1/2	2,450.23
3/4	8,210.43	3/4	7,977.49	3/4	7,604.15	3/4	7,141.82	3/4	6,616.38	3/4	6,045.00	3/4	5,441.01	3/4	4,815.81	3/4	4,179.73	3/4	3,542.64	3/4						3/4	3,179.73	3/4	2,437.05
2	8,208.25	2	7,970.93	2	7,595.50	2	7,131.49	2	6,604.92	2	6,032.72	2	5,428.18	2	4,802.64	2	4,166.44	2	3,529.42	2						2	3,166.44	2	2,424.42
1/4	8,205.42	1/4	7,964.14	1/4	7,586.56	1/4	7,121.05	1/4	6,593.39	1/4	6,020.40	1/4	5,415.31	1/4	4,789.45	1/4	4,153.14	1/4	3,516.22	1/4						1/4	3,153.14	1/4	2,411.22
1/2	8,202.58	1/2	7,957.36	1/2	7,577.62	1/2	7,110.61	1/2	6,581.85	1/2	6,008.07	1/2	5,402.44	1/2	4,776.27	1/2	4,139.84	1/2	3,503.01	1/2						1/2	3,139.84	1/2	2,398.01
3/4	8,199.75	3/4	7,950.57	3/4	7,568.68	3/4	7,100.17	3/4	6,570.32	3/4	5,995.74	3/4	5,389.57	3/4	4,763.08	3/4	4,126.55	3/4	3,489.81	3/4						3/4	3,126.55	3/4	2,384.81
3	8,196.92	3	7,943.78	3	7,559.75	3	7,089.73	3	6,558.78	3	5,983.42	3	5,376.70	3	4,749.89	3	4,113.25	3	3,476.61	3						3	3,113.25	3	2,371.61
1/4	8,193.55	1/4	7,936.78	1/4	7,550.66	1/4	7,079.19	1/4	6,547.17	1/4	5,971.03	1/4	5,363.80	1/4	4,736.69	1/4	4,099.95	1/4	3,463.42	1/4						1/4	3,099.95	1/4	2,358.42
1/2	8,190.19	1/2	7,929.78	1/2	7,541.58	1/2	7,068.64	1/2	6,535.56	1/2	5,958.65	1/2	5,350.90	1/2	4,723.48	1/2	4,086.66	1/2	3,450.23	1/2						1/2	3,086.66	1/2	2,345.23
3/4	8,186.82	3/4	7,922.77	3/4	7,532.50	3/4	7,058.10	3/4	6,523.95	3/4	5,946.27	3/4	5,337.99	3/4	4,710.28	3/4	4,073.36	3/4	3,437.05	3/4						3/4	3,073.36	3/4	2,332.05
4	8,183.46	4	7,915.77	4	7,523.41	4	7,047.55	4	6,512.34	4	5,933.89	4	5,325.09	4	4,697.08	4	4,060.06	4	3,423.86	4						4	3,060.06	4	2,319.86
1/4	8,179.63	1/4	7,908.56	1/4	7,514.19	1/4	7,036.90	1/4	6,500.65	1/4	5,921.45	1/4	5,312.15	1/4	4,683.86	1/4	4,046.77	1/4	3,410.69	1/4						1/4	3,046.77	1/4	2,306.69
1/2	8,175.81	1/2	7,901.35	1/2	7,504.96	1/2	7,026.26	1/2	6,488.96	1/2	5,909.02	1/2	5,299.22	1/2	4,670.64	1/2	4,033.47	1/2	3,397.52	1/2						1/2	3,033.47	1/2	2,293.52
3/4	8,171.99	3/4	7,894.13	3/4	7,495.74	3/4	7,015.61	3/4	6,477.28	3/4	5,896.59	3/4	5,286.28	3/4	4,657.42	3/4	4,020.17	3/4	3,384.36	3/4						3/4	3,020.17	3/4	2,280.36
5	8,168.17	5	7,886.92	5	7,486.51	5	7,004.96	5	6,465.59	5	5,884.15	5	5,273.34	5	4,644.20	5	4,006.88	5	3,371.19	5						5	3,006.88	5	2,267.19
1/4	8,163.94	1/4	7,879.51	1/4	7,477.15	1/4	6,994.22	1/4	6,453.83	1/4	5,871.67	1/4	5,260.38	1/4	4,630.97	1/4	3,993.59	1/4	3,358.04	1/4						1/4	2,993.59	1/4	2,254.04
1/2	8,159.72	1/2	7,872.10	1/2	7,467.79	1/2	6,983.47	1/2	6,442.07	1/2	5,859.18	1/2	5,247.41	1/2	4,617.73	1/2	3,980.29	1/2	3,344.89	1/2						1/2	2,980.29	1/2	2,240.89
3/4	8,155.49	3/4	7,864.69	3/4	7,458.43	3/4	6,972.73	3/4	6,430.31	3/4	5,846.70	3/4	5,234.44	3/4	4,604.50	3/4	3,967.00	3/4	3,331.74	3/4						3/4	2,967.00	3/4	2,227.74
6	8,151.26	6	7,857.27	6	7,449.07	6	6,961.98	6	6,418.55	6	5,834.21	6	5,221.47	6	4,591.26	6	3,953.71	6	3,318.59	6						6	2,953.71	6	2,214.59
1/4	8,146.67	1/4	7,849.67	1/4	7,439.57	1/4	6,951.14	1/4	6,406.72	1/4	5,821.68	1/4	5,208.47	1/4	4,578.02	1/4	3,940.42	1/4	3,305.47	1/4						1/4	2,940.42	1/4	2,201.47
1/2	8,142.08	1/2	7,842.06	1/2	7,430.08	1/2	6,940.29	1/2	6,394.89	1/2	5,809.15	1/2	5,195.47	1/2	4,564.77	1/2	3,927.13	1/2	3,292.34	1/2						1/2	2,927.13	1/2	2,188.34
3/4	8,137.48	3/4	7,834.46	3/4	7,420.59	3/4	6,929.45	3/4	6,383.06	3/4	5,796.61	3/4	5,182.48	3/4	4,551.53	3/4	3,913.84	3/4	3,279.21	3/4						3/4	2,913.84	3/4	2,175.21
7	8,132.89	7	7,826.85	7	7,411.09	7	6,918.61	7	6,371.23	7	5,784.08	7	5,169.48	7	4,538.28	7	3,900.55	7	3,266.08	7						7	2,900.55	7	2,162.08
1/4	8,127.96	1/4	7,819.06	1/4	7,401.47	1/4	6,907.67	1/4	6,359.33	1/4	5,771.50	1/4	5,156.45	1/4	4,525.02	1/4	3,887.27	1/4	3,252.98	1/4						1/4	2,887.27	1/4	2,148.98
1/2	8,123.03	1/2	7,811.27	1/2	7,391.84	1/2	6,896.73	1/2	6,347.44	1/2	5,758.91	1/2	5,143.42	1/2	4,511.76	1/2	3,873.99	1/2	3,239.88	1/2						1/2	2,873.99	1/2	2,135.88
3/4	8,118.10	3/4	7,803.48	3/4	7,382.22	3/4	6,885.79	3/4	6,335.54	3/4	5,746.33	3/4	5,130.40	3/4	4,498.51	3/4	3,860.71	3/4	3,226.77	3/4						3/4	2,860.71	3/4	2,122.77
8	8,113.16	8	7,795.69	8	7,372.60	8	6,874.85	8	6,323.64	8	5,733.75	8	5,117.37	8	4,485.25	8	3,847.42	8	3,209.67	8						8	2,847.42	8	2,109.67
1/4	8,107.92	1/4	7,787.71	1/4	7,362.85	1/4	6,863.82	1/4	6,311.67	1/4	5,721.12	1/4	5,104.31	1/4	4,471.98	1/4	3,834.15	1/4	3,200.59	1/4						1/4	2,834.15	1/4	2,096.59
1/2	8,102.68	1/2	7,779.74	1/2	7,353.10	1/2	6,852.79	1/2	6,299.71	1/2	5,708.50	1/2	5,091.26	1/2	4,458.72	1/2	3,820.87	1/2	3,187.51	1/2						1/2	2,820.87	1/2	2,083.51
3/4	8,097.43	3/4	7,771.77	3/4	7,343.35	3/4	6,841.76	3/4	6,287.74	3/4	5,695.87	3/4	5,078.21	3/4	4,445.45	3/4	3,807.59	3/4	3,174.43	3/4						3/4	2,807.59	3/4	2,070.43
9	8,092.19	9	7,763.80	9	7,333.60	9	6,830.73	9	6,275.78	9	5,683.24	9	5,065.15	9	4,432.18	9	3,794.32	9	3,161.35	9						9	2,794.32	9	2,057.35
1/4	8,086.65	1/4	7,755.65	1/4	7,323.72	1/4	6,819.61	1/4	6,263.75	1/4	5,670.57	1/4	5,052.07	1/4	4,418.90	1/4	3,781.05	1/4	3,148.29	1/4						1/4	2,781.05	1/4	2,044.29
1/2	8,081.11	1/2	7,747.51	1/2	7,313.85	1/2	6,808.49	1/2	6,251.72	1/2	5,657.90	1/2	5,038.99	1/2	4,405.63	1/2	3,767.78	1/2	3,135.24	1/2						1/2	2,767.78	1/2	2,031.24
3/4	8,075.57	3/4	7,739.36	3/4	7,303.98	3/4	6,797.37	3/4	6,239.69	3/4	5,645.23	3/4	5,025.91	3/4	4,392.35	3/4	3,754.52	3/4	3,122.18	3/4						3/4	2,754.52	3/4	2,018.18
10	8,070.03	10	7,731.21	10	7,294.11	10	6,786.25	10	6,227.66	10	5,632.56	10	5,012.83	10	4,379.08	10	3,741.25	10	3,109.13	10						10	2,741.25	10	2,005.13
1/4	8,064.22	1/4	7,722.90	1/4	7,284.12	1/4	6,775.05	1/4	6,215.56	1/4	5,619.84	1/4	4,999.73	1/4	4,365.79	1/4	3,727.99	1/4	3,096.10	1/4						1/4	2,727.99	1/4	1,992.10
1/2	8,058.41	1/2	7,714.59	1/2	7,274.12	1/2	6,763.84	1/2	6,203.47	1/2	5,607.13	1/2	4,986.62	1/2	4,352.51	1/2	3,714.73	1/2	3,083.08	1/2						1/2	2,714.73	1/2	1,979.08
3/4	8,052.59	3/																											



# BARGE "EMS 407P"

## STBD HORIZONTAL ULLAGE TABLE

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	3,005.03	0	2,392.32	0	1,807.99	0	1,264.53	0	777.38	0	367.95	0	72.43	0		0		0	
1/4	2,992.06	1/4	2,379.84	1/4	1,796.23	1/4	1,253.78	1/4	768.01	1/4	360.54	1/4	68.13	1/4		1/4		1/4	
1/2	2,979.09	1/2	2,367.35	1/2	1,784.47	1/2	1,243.03	1/2	758.65	1/2	353.12	1/2	63.83	1/2		1/2		1/2	
3/4	2,966.12	3/4	2,354.87	3/4	1,772.71	3/4	1,232.28	3/4	749.29	3/4	345.71	3/4	59.53	3/4		3/4		3/4	
1	2,953.16	1	2,342.38	1	1,760.96	1	1,221.54	1	739.93	1	338.30	1	55.23	1		1		1	
1/4	2,940.22	1/4	2,329.95	1/4	1,749.27	1/4	1,210.89	1/4	730.70	1/4	331.08	1/4	51.33	1/4		1/4		1/4	
1/2	2,927.28	1/2	2,317.51	1/2	1,737.58	1/2	1,200.24	1/2	721.47	1/2	323.87	1/2	47.44	1/2		1/2		1/2	
3/4	2,914.35	3/4	2,305.08	3/4	1,725.90	3/4	1,189.59	3/4	712.25	3/4	316.66	3/4	43.54	3/4		3/4		3/4	
2	2,901.41	2	2,292.65	2	1,714.21	2	1,178.94	2	703.02	2	309.45	2	39.65	2		2		2	
1/4	2,888.51	1/4	2,280.26	1/4	1,702.60	1/4	1,168.40	1/4	693.94	1/4	302.44	1/4	36.21	1/4		1/4		1/4	
1/2	2,875.60	1/2	2,267.88	1/2	1,690.99	1/2	1,157.85	1/2	684.85	1/2	295.43	1/2	32.77	1/2		1/2		1/2	
3/4	2,862.70	3/4	2,255.50	3/4	1,679.38	3/4	1,147.31	3/4	675.77	3/4	288.43	3/4	29.33	3/4		3/4		3/4	
3	2,849.80	3	2,243.12	3	1,667.76	3	1,136.76	3	666.68	3	281.42	3	25.89	3		3		3	
1/4	2,836.93	1/4	2,230.79	1/4	1,656.23	1/4	1,126.32	1/4	657.74	1/4	274.63	1/4	22.98	1/4		1/4		1/4	
1/2	2,824.06	1/2	2,218.47	1/2	1,644.69	1/2	1,115.88	1/2	648.80	1/2	267.84	1/2	20.07	1/2		1/2		1/2	
3/4	2,811.19	3/4	2,206.14	3/4	1,633.16	3/4	1,105.44	3/4	639.86	3/4	261.05	3/4	17.16	3/4		3/4		3/4	
4	2,798.32	4	2,193.81	4	1,621.62	4	1,095.00	4	630.92	4	254.26	4	14.26	4		4		4	
1/4	2,785.49	1/4	2,181.54	1/4	1,610.17	1/4	1,084.66	1/4	622.13	1/4	247.70	1/4	12.01	1/4		1/4		1/4	
1/2	2,772.66	1/2	2,169.27	1/2	1,598.71	1/2	1,074.33	1/2	613.34	1/2	241.14	1/2	9.76	1/2		1/2		1/2	
3/4	2,759.83	3/4	2,157.00	3/4	1,587.25	3/4	1,064.00	3/4	604.55	3/4	234.57	3/4	7.51	3/4		3/4		3/4	
5	2,747.00	5	2,144.73	5	1,575.79	5	1,053.66	5	595.76	5	228.01	5	5.26	5		5		5	
1/4	2,734.21	1/4	2,132.51	1/4	1,564.42	1/4	1,043.44	1/4	587.12	1/4	221.69	1/4	4.04	1/4		1/4		1/4	
1/2	2,721.41	1/2	2,120.30	1/2	1,553.04	1/2	1,033.22	1/2	578.49	1/2	215.36	1/2	2.81	1/2		1/2		1/2	
3/4	2,708.62	3/4	2,108.09	3/4	1,541.66	3/4	1,022.99	3/4	569.85	3/4	209.03	3/4	1.58	3/4		3/4		3/4	
6	2,695.83	6	2,095.87	6	1,530.28	6	1,012.77	6	561.21	6	202.71	6	0.35	6		6		6	
1/4	2,683.07	1/4	2,083.72	1/4	1,518.99	1/4	1,002.66	1/4	552.73	1/4	196.63	1/4		1/4		1/4		1/4	
1/2	2,670.32	1/2	2,071.56	1/2	1,507.70	1/2	992.55	1/2	544.25	1/2	190.55	1/2		1/2		1/2		1/2	
3/4	2,657.56	3/4	2,059.41	3/4	1,496.40	3/4	982.44	3/4	535.77	3/4	184.48	3/4		3/4		3/4		3/4	
7	2,644.81	7	2,047.25	7	1,485.11	7	972.33	7	527.29	7	178.40	7		7		7		7	
1/4	2,632.10	1/4	2,035.16	1/4	1,473.90	1/4	962.34	1/4	518.98	1/4	172.51	1/4		1/4		1/4		1/4	
1/2	2,619.39	1/2	2,023.07	1/2	1,462.69	1/2	952.35	1/2	510.66	1/2	166.62	1/2		1/2		1/2		1/2	
3/4	2,606.67	3/4	2,010.98	3/4	1,451.48	3/4	942.35	3/4	502.35	3/4	160.73	3/4		3/4		3/4		3/4	
8	2,593.96	8	1,998.88	8	1,440.27	8	932.36	8	494.03	8	154.85	8		8		8		8	
1/4	2,581.29	1/4	1,986.85	1/4	1,429.15	1/4	922.48	1/4	485.88	1/4	149.23	1/4		1/4		1/4		1/4	
1/2	2,568.62	1/2	1,974.82	1/2	1,418.03	1/2	912.61	1/2	477.74	1/2	143.62	1/2		1/2		1/2		1/2	
3/4	2,555.95	3/4	1,962.79	3/4	1,406.91	3/4	902.74	3/4	469.59	3/4	138.01	3/4		3/4		3/4		3/4	
9	2,543.28	9	1,950.76	9	1,395.79	9	892.86	9	461.44	9	132.40	9		9		9		9	
1/4	2,530.65	1/4	1,938.80	1/4	1,384.76	1/4	883.11	1/4	453.47	1/4	127.08	1/4		1/4		1/4		1/4	
1/2	2,518.03	1/2	1,926.83	1/2	1,373.73	1/2	873.36	1/2	445.50	1/2	121.76	1/2		1/2		1/2		1/2	
3/4	2,505.40	3/4	1,914.87	3/4	1,362.70	3/4	863.61	3/4	437.52	3/4	116.44	3/4		3/4		3/4		3/4	
10	2,492.77	10	1,902.90	10	1,351.66	10	853.86	10	429.55	10	111.12	10		10		10		10	
1/4	2,480.19	1/4	1,891.00	1/4	1,340.72	1/4	844.23	1/4	421.76	1/4	106.12	1/4		1/4		1/4		1/4	
1/2	2,467.61	1/2	1,879.11	1/2	1,329.79	1/2	834.61	1/2	413.96	1/2	101.11	1/2		1/2		1/2		1/2	
3/4	2,455.03	3/4	1,867.21	3/4	1,318.85	3/4	824.98	3/4	406.17	3/4	96.11	3/4		3/4		3/4		3/4	
11	2,442.45	11	1,855.31	11	1,307.91	11	815.36	11	398.38	11	91.10	11		11		11		11	
1/4	2,429.92	1/4	1,843.48	1/4	1,297.06	1/4	805.86	1/4	390.77	1/4	86.43	1/4		1/4		1/4		1/4	
1/2	2,417.39	1/2	1,831.65	1/2	1,286.22	1/2	796.37	1/2	383.16	1/2	81.77	1/2		1/2		1/2		1/2	
3/4	2,404.85	3/4	1,819.82	3/4	1,275.37	3/4	786.87	3/4	375.56	3/4	77.10	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/26/2015 SW  
CALCULATED: 08/26/2015 CL  
PRINTED: 08/26/2015 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2015

PRECISION MEASUREMENT  
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