



BARGE "CTCO 250"

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	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-3/8	00-3/8	- 00-1/2	00-1/2
1 STBD	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-3/8	00-3/8	- 00-1/2	00-1/2
2 PORT	- 00-1/8	00-1/8	- 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
2 STBD	- 00-1/8	00-1/8	- 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
3 PORT	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-1/2	00-1/2
3 STBD	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-1/2	00-1/2

(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 00-1/8"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 4'-00 1/8"

LENGTH BETWEEN DRAFT MARKS: 252'-09"

March 14, 2013

PRECISION MEASUREMENT
 & ANALYSIS, INC.

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "CTCO 250"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
0	0	5,144.08	0	4,858.08	0	4,550.42	0	4,225.61	0	3,893.76	0	3,561.91	0	3,230.06	0	2,898.21	0	2,566.33	
1/4	1/4	5,139.20	1/4	4,851.85	1/4	4,543.82	1/4	4,218.69	1/4	3,886.85	1/4	3,555.00	1/4	3,223.15	1/4	2,891.30	1/4	2,559.42	
1/2	1/2	5,134.32	1/2	4,845.61	1/2	4,537.21	1/2	4,211.78	1/2	3,879.93	1/2	3,548.08	1/2	3,216.24	1/2	2,884.39	1/2	2,552.50	
3/4	3/4	5,128.96	3/4	4,839.36	3/4	4,530.58	3/4	4,204.87	3/4	3,873.02	3/4	3,541.17	3/4	3,209.32	3/4	2,877.47	3/4	2,545.58	
1	1	5,123.61	1	4,833.10	1	4,523.95	1	4,197.95	1	3,866.10	1	3,534.26	1	3,202.41	1	2,870.56	1	2,538.66	
1/4	1/4	5,118.25	1/4	4,826.84	1/4	4,517.32	1/4	4,191.04	1/4	3,859.19	1/4	3,527.34	1/4	3,195.50	1/4	2,863.65	1/4	2,531.74	
1/2	1/2	5,112.90	1/2	4,820.58	1/2	4,510.69	1/2	4,184.13	1/2	3,852.28	1/2	3,520.43	1/2	3,188.58	1/2	2,856.73	1/2	2,524.83	
3/4	3/4	5,107.00	3/4	4,814.29	3/4	4,504.04	3/4	4,177.21	3/4	3,845.36	3/4	3,513.52	3/4	3,181.67	3/4	2,849.82	3/4	2,517.91	
2	2	5,101.09	2	4,808.01	2	4,497.38	2	4,170.30	2	3,838.45	2	3,506.60	2	3,174.75	2	2,842.91	2	2,510.99	
1/4	1/4	5,095.19	1/4	4,801.72	1/4	4,490.72	1/4	4,163.39	1/4	3,831.54	1/4	3,499.69	1/4	3,167.84	1/4	2,835.99	1/4	2,504.07	
1/2	1/2	5,089.29	1/2	4,795.43	1/2	4,484.06	1/2	4,156.47	1/2	3,824.62	1/2	3,492.78	1/2	3,160.93	1/2	2,829.08	1/2	2,497.15	
3/4	3/4	5,083.36	3/4	4,789.12	3/4	4,477.38	3/4	4,149.56	3/4	3,817.71	3/4	3,485.86	3/4	3,154.01	3/4	2,822.17	3/4	2,490.24	
3	3	5,077.43	3	4,782.80	3	4,470.69	3	4,142.64	3	3,810.80	3	3,478.95	3	3,147.10	3	2,815.25	3	2,483.32	
1/4	1/4	5,071.51	1/4	4,776.49	1/4	4,464.01	1/4	4,135.73	1/4	3,803.88	1/4	3,472.04	1/4	3,140.19	1/4	2,808.34	1/4	2,476.40	
1/2	1/2	5,065.58	1/2	4,770.17	1/2	4,457.32	1/2	4,128.82	1/2	3,796.97	1/2	3,465.12	1/2	3,133.27	1/2	2,801.43	1/2	2,469.48	
3/4	3/4	5,059.62	3/4	4,763.83	3/4	4,450.61	3/4	4,121.90	3/4	3,790.06	3/4	3,458.21	3/4	3,126.36	3/4	2,794.51	3/4	2,462.56	
4	4	5,053.67	4	4,757.49	4	4,443.90	4	4,114.99	4	3,783.14	4	3,451.29	4	3,119.45	4	2,787.60	4	2,455.65	
1/4	1/4	5,047.71	1/4	4,751.15	1/4	4,437.18	1/4	4,108.08	1/4	3,776.23	1/4	3,444.38	1/4	3,112.53	1/4	2,780.69	1/4	2,448.73	
1/2	1/2	5,041.76	1/2	4,744.81	1/2	4,430.47	1/2	4,101.16	1/2	3,769.32	1/2	3,437.47	1/2	3,105.62	1/2	2,773.77	1/2	2,441.81	
3/4	3/4	5,035.76	3/4	4,738.44	3/4	4,423.73	3/4	4,094.25	3/4	3,762.40	3/4	3,430.55	3/4	3,098.71	3/4	2,766.86	3/4	2,434.89	
5	5	5,029.76	5	4,732.07	5	4,416.99	5	4,087.34	5	3,755.49	5	3,423.64	5	3,091.79	5	2,759.94	5	2,427.97	
1/4	1/4	5,023.77	1/4	4,725.70	1/4	4,410.25	1/4	4,080.42	1/4	3,748.58	1/4	3,416.73	1/4	3,084.88	1/4	2,753.03	1/4	2,421.05	
1/2	1/2	5,017.77	1/2	4,719.33	1/2	4,403.51	1/2	4,073.51	1/2	3,741.66	1/2	3,409.81	1/2	3,077.97	1/2	2,746.12	1/2	2,414.14	
3/4	3/4	5,011.71	3/4	4,712.93	3/4	4,396.74	3/4	4,066.60	3/4	3,734.75	3/4	3,402.90	3/4	3,071.05	3/4	2,739.20	3/4	2,407.22	
6	6	5,005.64	6	4,706.53	6	4,389.97	6	4,059.68	6	3,727.83	6	3,395.99	6	3,064.14	6	2,732.29	6	2,400.30	
1/4	1/4	4,999.57	1/4	4,700.14	1/4	4,383.20	1/4	4,052.77	1/4	3,720.92	1/4	3,389.07	1/4	3,057.23	1/4	2,725.38	1/4	2,393.38	
1/2	1/2	4,993.51	1/2	4,693.74	1/2	4,376.43	1/2	4,045.86	1/2	3,714.01	1/2	3,382.16	1/2	3,050.31	1/2	2,718.46	1/2	2,386.46	
3/4	3/4	4,987.42	3/4	4,687.31	3/4	4,369.64	3/4	4,038.94	3/4	3,707.09	3/4	3,375.25	3/4	3,043.40	3/4	2,711.55	3/4	2,379.55	
7	7	4,981.32	7	4,680.89	7	4,362.84	7	4,032.03	7	3,700.18	7	3,368.33	7	3,036.48	7	2,704.64	7	2,372.63	
1/4	1/4	4,975.23	1/4	4,674.46	1/4	4,356.05	1/4	4,025.12	1/4	3,693.27	1/4	3,361.42	1/4	3,029.57	1/4	2,697.72	1/4	2,365.71	
1/2	1/2	4,969.14	1/2	4,668.04	1/2	4,349.25	1/2	4,018.20	1/2	3,686.35	1/2	3,354.51	1/2	3,022.66	1/2	2,690.81	1/2	2,358.79	
3/4	3/4	4,963.02	3/4	4,661.58	3/4	4,342.43	3/4	4,011.29	3/4	3,679.44	3/4	3,347.59	3/4	3,015.74	3/4	2,683.90	3/4	2,351.87	
8	8	4,956.89	8	4,655.12	8	4,335.60	8	4,004.37	8	3,672.53	8	3,340.68	8	3,008.83	8	2,676.98	8	2,344.96	
1/4	1/4	4,950.77	1/4	4,648.65	1/4	4,328.78	1/4	3,997.46	1/4	3,665.61	1/4	3,333.77	1/4	3,001.92	1/4	2,670.07	1/4	2,338.04	
1/2	1/2	4,944.65	1/2	4,642.19	1/2	4,321.96	1/2	3,990.55	1/2	3,658.70	1/2	3,326.85	1/2	2,995.00	1/2	2,663.16	1/2	2,331.12	
3/4	3/4	4,938.50	3/4	4,635.67	3/4	4,315.10	3/4	3,983.63	3/4	3,651.79	3/4	3,319.94	3/4	2,988.09	3/4	2,656.24	3/4	2,324.20	
9	9	4,932.36	9	4,629.15	9	4,308.25	9	3,976.72	9	3,644.87	9	3,313.02	9	2,981.18	9	2,649.33	9	2,317.28	
1/4	1/4	4,926.21	1/4	4,622.63	1/4	4,301.40	1/4	3,969.81	1/4	3,637.96	1/4	3,306.11	1/4	2,974.26	1/4	2,642.42	1/4	2,310.36	
1/2	1/2	4,920.06	1/2	4,616.11	1/2	4,294.55	1/2	3,962.89	1/2	3,631.05	1/2	3,299.20	1/2	2,967.35	1/2	2,635.50	1/2	2,303.45	
3/4	3/4	4,913.88	3/4	4,609.56	3/4	4,287.67	3/4	3,955.98	3/4	3,624.13	3/4	3,292.28	3/4	2,960.44	3/4	2,628.59	3/4	2,296.53	
10	10	4,907.71	10	4,603.02	10	4,280.79	10	3,949.07	10	3,617.22	10	3,285.37	10	2,953.52	10	2,621.67	10	2,289.61	
1/4	1/4	4,901.53	1/4	4,596.47	1/4	4,273.91	1/4	3,942.15	1/4	3,610.31	1/4	3,278.46	1/4	2,946.61	1/4	2,614.76	1/4	2,282.69	
1/2	1/2	4,895.36	1/2	4,589.92	1/2	4,267.03	1/2	3,935.24	1/2	3,603.39	1/2	3,271.54	1/2	2,939.70	1/2	2,607.84	1/2	2,275.77	
3/4	3/4	4,889.15	3/4	4,583.35	3/4	4,260.13	3/4	3,928.33	3/4	3,596.48	3/4	3,264.63	3/4	2,932.78	3/4	2,600.93	3/4	2,268.86	
11	11	4,882.95	11	4,576.77	11	4,253.23	11	3,921.41	11	3,589.56	11	3,257.72	11	2,925.87	11	2,594.01	11	2,261.94	
1/4	1/4	4,876.74	1/4	4,570.20	1/4	4,246.33	1/4	3,914.50	1/4	3,582.65	1/4	3,250.80	1/4	2,918.96	1/4	2,587.09	1/4	2,255.02	
1/2	1/2	4,870.54	1/2	4,563.62	1/2	4,239.43	1/2	3,907.59	1/2	3,575.74	1/2	3,243.89	1/2	2,912.04	1/2	2,580.17	1/2	2,248.10	
3/4	3/4	4,864.31	3/4	4,557.02	3/4	4,232.52	3/4	3,900.67	3/4	3,568.82	3/4	3,236.98	3/4	2,905.13	3/4	2,573.25	3/4	2,241.18	

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" HERMETIC CLOSED GAUGING VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 41'-09" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77588
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BARGE "CTCO 250"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,234.27	0	1,902.20	0	1,570.13	0	1,238.06	0	906.22	0	574.41	0	242.38	0		0		0	
1/4	2,227.35	1/4	1,895.28	1/4	1,563.21	1/4	1,231.14	1/4	899.31	1/4	567.49	1/4	235.46	1/4	1/4		1/4		1/4
1/2	2,220.43	1/2	1,888.36	1/2	1,556.29	1/2	1,224.22	1/2	892.41	1/2	560.57	1/2	228.55	1/2	1/2		1/2		1/2
3/4	2,213.51	3/4	1,881.44	3/4	1,549.37	3/4	1,217.31	3/4	885.50	3/4	553.66	3/4	221.63	3/4	3/4		3/4		3/4
1	2,206.59	1	1,874.52	1	1,542.46	1	1,210.39	1	878.59	1	546.74	1	214.71	1	1		1		1
1/4	2,199.68	1/4	1,867.61	1/4	1,535.54	1/4	1,203.47	1/4	871.69	1/4	539.82	1/4	207.79	1/4	1/4		1/4		1/4
1/2	2,192.76	1/2	1,860.69	1/2	1,528.62	1/2	1,196.55	1/2	864.78	1/2	532.90	1/2	200.88	1/2	1/2		1/2		1/2
3/4	2,185.84	3/4	1,853.77	3/4	1,521.70	3/4	1,189.63	3/4	857.88	3/4	525.98	3/4	193.96	3/4	3/4		3/4		3/4
2	2,178.92	2	1,846.85	2	1,514.78	2	1,182.71	2	850.97	2	519.07	2	187.04	2	2		2		2
1/4	2,172.00	1/4	1,839.93	1/4	1,507.87	1/4	1,175.80	1/4	844.06	1/4	512.15	1/4	180.12	1/4	1/4		1/4		1/4
1/2	2,165.08	1/2	1,833.02	1/2	1,500.95	1/2	1,168.88	1/2	837.16	1/2	505.23	1/2	173.20	1/2	1/2		1/2		1/2
3/4	2,158.17	3/4	1,826.10	3/4	1,494.03	3/4	1,161.96	3/4	830.25	3/4	498.31	3/4	166.29	3/4	3/4		3/4		3/4
3	2,151.25	3	1,819.18	3	1,487.11	3	1,155.04	3	823.34	3	491.40	3	159.37	3	3		3		3
1/4	2,144.33	1/4	1,812.26	1/4	1,480.19	1/4	1,148.12	1/4	816.44	1/4	484.48	1/4	152.45	1/4	1/4		1/4		1/4
1/2	2,137.41	1/2	1,805.34	1/2	1,473.27	1/2	1,141.21	1/2	809.53	1/2	477.56	1/2	145.53	1/2	1/2		1/2		1/2
3/4	2,130.49	3/4	1,798.43	3/4	1,466.36	3/4	1,134.29	3/4	802.63	3/4	470.64	3/4	138.62	3/4	3/4		3/4		3/4
4	2,123.58	4	1,791.51	4	1,459.44	4	1,127.37	4	795.72	4	463.72	4	131.71	4	4		4		4
1/4	2,116.66	1/4	1,784.59	1/4	1,452.52	1/4	1,120.45	1/4	788.81	1/4	456.81	1/4	124.79	1/4	1/4		1/4		1/4
1/2	2,109.74	1/2	1,777.67	1/2	1,445.60	1/2	1,113.53	1/2	781.91	1/2	449.89	1/2	117.88	1/2	1/2		1/2		1/2
3/4	2,102.82	3/4	1,770.75	3/4	1,438.68	3/4	1,106.62	3/4	775.00	3/4	442.97	3/4	110.98	3/4	3/4		3/4		3/4
5	2,095.90	5	1,763.84	5	1,431.77	5	1,099.70	5	768.09	5	436.05	5	104.08	5	5		5		5
1/4	2,088.99	1/4	1,756.92	1/4	1,424.85	1/4	1,092.78	1/4	761.18	1/4	429.13	1/4	97.17	1/4	1/4		1/4		1/4
1/2	2,082.07	1/2	1,750.00	1/2	1,417.93	1/2	1,085.86	1/2	754.27	1/2	422.22	1/2	90.27	1/2	1/2		1/2		1/2
3/4	2,075.15	3/4	1,743.08	3/4	1,411.01	3/4	1,078.94	3/4	747.35	3/4	415.30	3/4	83.36	3/4	3/4		3/4		3/4
6	2,068.23	6	1,736.16	6	1,404.09	6	1,072.02	6	740.44	6	408.38	6	76.84	6	6		6		6
1/4	2,061.31	1/4	1,729.24	1/4	1,397.18	1/4	1,065.11	1/4	733.52	1/4	401.46	1/4	70.12	1/4	1/4		1/4		1/4
1/2	2,054.40	1/2	1,722.33	1/2	1,390.26	1/2	1,058.19	1/2	726.60	1/2	394.55	1/2	63.40	1/2	1/2		1/2		1/2
3/4	2,047.48	3/4	1,715.41	3/4	1,383.34	3/4	1,051.27	3/4	719.68	3/4	387.63	3/4	57.53	3/4	3/4		3/4		3/4
7	2,040.56	7	1,708.49	7	1,376.42	7	1,044.36	7	712.76	7	380.71	7	51.65	7	7		7		7
1/4	2,033.64	1/4	1,701.57	1/4	1,369.50	1/4	1,037.44	1/4	705.85	1/4	373.80	1/4	45.77	1/4	1/4		1/4		1/4
1/2	2,026.72	1/2	1,694.65	1/2	1,362.59	1/2	1,030.53	1/2	698.93	1/2	366.88	1/2	39.89	1/2	1/2		1/2		1/2
3/4	2,019.80	3/4	1,687.74	3/4	1,355.67	3/4	1,023.62	3/4	692.01	3/4	359.96	3/4	33.99	3/4	3/4		3/4		3/4
8	2,012.89	8	1,680.82	8	1,348.75	8	1,016.72	8	685.09	8	353.05	8	30.90	8	8		8		8
1/4	2,005.97	1/4	1,673.90	1/4	1,341.83	1/4	1,009.81	1/4	678.18	1/4	346.14	1/4	26.40	1/4	1/4		1/4		1/4
1/2	1,999.05	1/2	1,666.98	1/2	1,334.91	1/2	1,002.90	1/2	671.26	1/2	339.22	1/2	21.90	1/2	1/2		1/2		1/2
3/4	1,992.13	3/4	1,660.06	3/4	1,327.99	3/4	996.00	3/4	664.34	3/4	332.31	3/4		3/4	3/4		3/4		3/4
9	1,985.21	9	1,653.15	9	1,321.08	9	989.09	9	657.42	9	325.39	9		9	9		9		9
1/4	1,978.30	1/4	1,646.23	1/4	1,314.16	1/4	982.18	1/4	650.50	1/4	318.48	1/4		1/4	1/4		1/4		1/4
1/2	1,971.38	1/2	1,639.31	1/2	1,307.24	1/2	975.28	1/2	643.59	1/2	311.56	1/2		1/2	1/2		1/2		1/2
3/4	1,964.46	3/4	1,632.39	3/4	1,300.32	3/4	968.37	3/4	636.67	3/4	304.64	3/4		3/4	3/4		3/4		3/4
10	1,957.54	10	1,625.47	10	1,293.40	10	961.47	10	629.75	10	297.72	10		10	10		10		10
1/4	1,950.62	1/4	1,618.55	1/4	1,286.49	1/4	954.56	1/4	622.83	1/4	290.81	1/4		1/4	1/4		1/4		1/4
1/2	1,943.71	1/2	1,611.64	1/2	1,279.57	1/2	947.65	1/2	615.92	1/2	283.89	1/2		1/2	1/2		1/2		1/2
3/4	1,936.79	3/4	1,604.72	3/4	1,272.65	3/4	940.75	3/4	609.00	3/4	276.97	3/4		3/4	3/4		3/4		3/4
11	1,929.87	11	1,597.80	11	1,265.73	11	933.84	11	602.08	11	270.05	11		11	11		11		11
1/4	1,922.95	1/4	1,590.88	1/4	1,258.81	1/4	926.94	1/4	595.16	1/4	263.14	1/4		1/4	1/4		1/4		1/4
1/2	1,916.03	1/2	1,583.96	1/2	1,251.90	1/2	920.03	1/2	588.24	1/2	256.22	1/2		1/2	1/2		1/2		1/2
3/4	1,909.12	3/4	1,577.05	3/4	1,244.98	3/4	913.12	3/4	581.33	3/4	249.30	3/4		3/4	3/4		3/4		3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/14/2013 SW
CALCULATED: 03/17/2013 CL
PRINTED: 03/17/2013 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2013

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



BARGE "CTCO 250"

1 STBD
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
0	0	5,142.25	0	4,856.25	0	4,548.59	0	4,223.78	0	3,891.93	0	3,560.08	0	3,228.23	0	2,896.38	0	2,564.50	
1/4	1/4	5,137.37	1/4	4,850.02	1/4	4,541.99	1/4	4,216.86	1/4	3,885.02	1/4	3,553.17	1/4	3,221.32	1/4	2,889.47	1/4	2,557.59	
1/2	1/2	5,132.49	1/2	4,843.78	1/2	4,535.38	1/2	4,209.95	1/2	3,878.10	1/2	3,546.25	1/2	3,214.41	1/2	2,882.56	1/2	2,550.67	
3/4	3/4	5,127.13	3/4	4,837.53	3/4	4,528.75	3/4	4,203.04	3/4	3,871.19	3/4	3,539.34	3/4	3,207.49	3/4	2,875.64	3/4	2,543.75	
1	1	5,121.78	1	4,831.27	1	4,522.12	1	4,196.12	1	3,864.27	1	3,532.43	1	3,200.58	1	2,868.73	1	2,536.83	
1/4	1/4	5,116.42	1/4	4,825.01	1/4	4,515.49	1/4	4,189.21	1/4	3,857.36	1/4	3,525.51	1/4	3,193.67	1/4	2,861.82	1/4	2,529.91	
1/2	1/2	5,111.07	1/2	4,818.75	1/2	4,508.86	1/2	4,182.30	1/2	3,850.45	1/2	3,518.60	1/2	3,186.75	1/2	2,854.90	1/2	2,523.00	
3/4	3/4	5,105.17	3/4	4,812.46	3/4	4,502.21	3/4	4,175.38	3/4	3,843.53	3/4	3,511.69	3/4	3,179.84	3/4	2,847.99	3/4	2,516.08	
2	2	5,099.26	2	4,806.18	2	4,495.55	2	4,168.47	2	3,836.62	2	3,504.77	2	3,172.92	2	2,841.08	2	2,509.16	
1/4	1/4	5,093.36	1/4	4,799.89	1/4	4,488.89	1/4	4,161.56	1/4	3,829.71	1/4	3,497.86	1/4	3,166.01	1/4	2,834.16	1/4	2,502.24	
1/2	1/2	5,087.46	1/2	4,793.60	1/2	4,482.23	1/2	4,154.64	1/2	3,822.79	1/2	3,490.95	1/2	3,159.10	1/2	2,827.25	1/2	2,495.32	
3/4	3/4	5,081.53	3/4	4,787.29	3/4	4,475.55	3/4	4,147.73	3/4	3,815.88	3/4	3,484.03	3/4	3,152.18	3/4	2,820.34	3/4	2,488.41	
3	3	5,075.60	3	4,780.97	3	4,468.86	3	4,140.81	3	3,808.97	3	3,477.12	3	3,145.27	3	2,813.42	3	2,481.49	
1/4	1/4	5,069.68	1/4	4,774.66	1/4	4,462.18	1/4	4,133.90	1/4	3,802.05	1/4	3,470.21	1/4	3,138.36	1/4	2,806.51	1/4	2,474.57	
1/2	1/2	5,063.75	1/2	4,768.34	1/2	4,455.49	1/2	4,126.99	1/2	3,795.14	1/2	3,463.29	1/2	3,131.44	1/2	2,799.60	1/2	2,467.65	
3/4	3/4	5,057.79	3/4	4,762.00	3/4	4,448.78	3/4	4,120.07	3/4	3,788.23	3/4	3,456.38	3/4	3,124.53	3/4	2,792.68	3/4	2,460.73	
4	4	5,051.84	4	4,755.66	4	4,442.07	4	4,113.16	4	3,781.31	4	3,449.46	4	3,117.62	4	2,785.77	4	2,453.82	
1/4	1/4	5,045.88	1/4	4,749.32	1/4	4,435.35	1/4	4,106.25	1/4	3,774.40	1/4	3,442.55	1/4	3,110.70	1/4	2,778.86	1/4	2,446.90	
1/2	1/2	5,039.93	1/2	4,742.98	1/2	4,428.64	1/2	4,099.33	1/2	3,767.49	1/2	3,435.64	1/2	3,103.79	1/2	2,771.94	1/2	2,439.98	
3/4	3/4	5,033.93	3/4	4,736.61	3/4	4,421.90	3/4	4,092.42	3/4	3,760.57	3/4	3,428.72	3/4	3,096.88	3/4	2,765.03	3/4	2,433.06	
5	5	5,027.93	5	4,730.24	5	4,415.16	5	4,085.51	5	3,753.66	5	3,421.81	5	3,089.96	5	2,758.11	5	2,426.14	
1/4	1/4	5,021.94	1/4	4,723.87	1/4	4,408.42	1/4	4,078.59	1/4	3,746.75	1/4	3,414.90	1/4	3,083.05	1/4	2,751.20	1/4	2,419.22	
1/2	1/2	5,015.94	1/2	4,717.50	1/2	4,401.68	1/2	4,071.68	1/2	3,739.83	1/2	3,407.98	1/2	3,076.14	1/2	2,744.29	1/2	2,412.31	
3/4	3/4	5,009.88	3/4	4,711.10	3/4	4,394.91	3/4	4,064.77	3/4	3,732.92	3/4	3,401.07	3/4	3,069.22	3/4	2,737.37	3/4	2,405.39	
6	6	5,003.81	6	4,704.70	6	4,388.14	6	4,057.85	6	3,726.00	6	3,394.16	6	3,062.31	6	2,730.46	6	2,398.47	
1/4	1/4	4,997.74	1/4	4,698.31	1/4	4,381.37	1/4	4,050.94	1/4	3,719.09	1/4	3,387.24	1/4	3,055.40	1/4	2,723.55	1/4	2,391.55	
1/2	1/2	4,991.68	1/2	4,691.91	1/2	4,374.60	1/2	4,044.03	1/2	3,712.18	1/2	3,380.33	1/2	3,048.48	1/2	2,716.63	1/2	2,384.63	
3/4	3/4	4,985.59	3/4	4,685.48	3/4	4,367.81	3/4	4,037.11	3/4	3,705.26	3/4	3,373.42	3/4	3,041.57	3/4	2,709.72	3/4	2,377.72	
7	7	4,979.49	7	4,679.06	7	4,361.01	7	4,030.20	7	3,698.35	7	3,366.50	7	3,034.65	7	2,702.81	7	2,370.80	
1/4	1/4	4,973.40	1/4	4,672.63	1/4	4,354.22	1/4	4,023.29	1/4	3,691.44	1/4	3,359.59	1/4	3,027.74	1/4	2,695.89	1/4	2,363.88	
1/2	1/2	4,967.31	1/2	4,666.21	1/2	4,347.42	1/2	4,016.37	1/2	3,684.52	1/2	3,352.68	1/2	3,020.83	1/2	2,688.98	1/2	2,356.96	
3/4	3/4	4,961.19	3/4	4,659.75	3/4	4,340.60	3/4	4,009.46	3/4	3,677.61	3/4	3,345.76	3/4	3,013.91	3/4	2,682.07	3/4	2,350.04	
8	8	4,955.06	8	4,653.29	8	4,333.77	8	4,002.54	8	3,670.70	8	3,338.85	8	3,007.00	8	2,675.15	8	2,343.13	
1/4	1/4	4,948.94	1/4	4,646.82	1/4	4,326.95	1/4	3,995.63	1/4	3,663.78	1/4	3,331.94	1/4	3,000.09	1/4	2,668.24	1/4	2,336.21	
1/2	1/2	4,942.82	1/2	4,640.36	1/2	4,320.13	1/2	3,988.72	1/2	3,656.87	1/2	3,325.02	1/2	2,993.17	1/2	2,661.33	1/2	2,329.29	
3/4	3/4	4,936.67	3/4	4,633.84	3/4	4,313.27	3/4	3,981.80	3/4	3,649.96	3/4	3,318.11	3/4	2,986.26	3/4	2,654.41	3/4	2,322.37	
9	9	4,930.53	9	4,627.32	9	4,306.42	9	3,974.89	9	3,643.04	9	3,311.19	9	2,979.35	9	2,647.50	9	2,315.45	
1/4	1/4	4,924.38	1/4	4,620.80	1/4	4,299.57	1/4	3,967.98	1/4	3,636.13	1/4	3,304.28	1/4	2,972.43	1/4	2,640.59	1/4	2,308.53	
1/2	1/2	4,918.23	1/2	4,614.28	1/2	4,292.72	1/2	3,961.06	1/2	3,629.22	1/2	3,297.37	1/2	2,965.52	1/2	2,633.67	1/2	2,301.62	
3/4	3/4	4,912.05	3/4	4,607.73	3/4	4,285.84	3/4	3,954.15	3/4	3,622.30	3/4	3,290.45	3/4	2,958.61	3/4	2,626.76	3/4	2,294.70	
10	10	4,905.88	10	4,601.19	10	4,278.96	10	3,947.24	10	3,615.39	10	3,283.54	10	2,951.69	10	2,619.84	10	2,287.78	
1/4	1/4	4,899.70	1/4	4,594.64	1/4	4,272.08	1/4	3,940.32	1/4	3,608.48	1/4	3,276.63	1/4	2,944.78	1/4	2,612.93	1/4	2,280.86	
1/2	1/2	4,893.53	1/2	4,588.09	1/2	4,265.20	1/2	3,933.41	1/2	3,601.56	1/2	3,269.71	1/2	2,937.87	1/2	2,606.01	1/2	2,273.94	
3/4	3/4	4,887.32	3/4	4,581.52	3/4	4,258.30	3/4	3,926.50	3/4	3,594.65	3/4	3,262.80	3/4	2,930.95	3/4	2,599.10	3/4	2,267.03	
11	11	4,881.12	11	4,574.94	11	4,251.40	11	3,919.58	11	3,587.73	11	3,255.89	11	2,924.04	11	2,592.18	11	2,260.11	
1/4	1/4	4,874.91	1/4	4,568.37	1/4	4,244.50	1/4	3,912.67	1/4	3,580.82	1/4	3,248.97	1/4	2,917.13	1/4	2,585.26	1/4	2,253.19	
1/2	1/2	4,868.71	1/2	4,561.79	1/2	4,237.60	1/2	3,905.76	1/2	3,573.91	1/2	3,242.06	1/2	2,910.21	1/2	2,578.34	1/2	2,246.27	
3/4	3/4	4,862.48	3/4	4,555.19	3/4	4,230.69	3/4	3,898.84	3/4	3,566.99	3/4	3,235.15	3/4	2,903.30	3/4	2,571.42	3/4	2,239.35	

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" HERMETIC CLOSED GAUGING VALVE.
GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 41'-09" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "CTCO 250"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,232.44	0	1,900.37	0	1,568.30	0	1,236.23	0	905.24	0	574.41	0	242.38	0		0		0	
1/4	2,225.52	1/4	1,893.45	1/4	1,561.38	1/4	1,229.31	1/4	898.37	1/4	567.49	1/4	235.46	1/4	1/4		1/4		1/4
1/2	2,218.60	1/2	1,886.53	1/2	1,554.46	1/2	1,222.39	1/2	891.50	1/2	560.57	1/2	228.54	1/2	1/2		1/2		1/2
3/4	2,211.68	3/4	1,879.61	3/4	1,547.54	3/4	1,215.48	3/4	884.63	3/4	553.65	3/4	221.63	3/4	3/4		3/4		3/4
1	2,204.76	1	1,872.69	1	1,540.63	1	1,208.56	1	877.77	1	546.74	1	214.71	1	1		1		1
1/4	2,197.85	1/4	1,865.78	1/4	1,533.71	1/4	1,201.64	1/4	870.90	1/4	539.82	1/4	207.79	1/4	1/4		1/4		1/4
1/2	2,190.93	1/2	1,858.86	1/2	1,526.79	1/2	1,194.72	1/2	864.03	1/2	532.90	1/2	200.87	1/2	1/2		1/2		1/2
3/4	2,184.01	3/4	1,851.94	3/4	1,519.87	3/4	1,187.80	3/4	857.16	3/4	525.98	3/4	193.96	3/4	3/4		3/4		3/4
2	2,177.09	2	1,845.02	2	1,512.95	2	1,180.88	2	850.29	2	519.06	2	187.04	2	2		2		2
1/4	2,170.17	1/4	1,838.10	1/4	1,506.04	1/4	1,173.97	1/4	843.42	1/4	512.15	1/4	180.12	1/4	1/4		1/4		1/4
1/2	2,163.25	1/2	1,831.19	1/2	1,499.12	1/2	1,167.05	1/2	836.55	1/2	505.23	1/2	173.20	1/2	1/2		1/2		1/2
3/4	2,156.34	3/4	1,824.27	3/4	1,492.20	3/4	1,160.13	3/4	829.68	3/4	498.31	3/4	166.28	3/4	3/4		3/4		3/4
3	2,149.42	3	1,817.35	3	1,485.28	3	1,153.21	3	822.81	3	491.39	3	159.37	3	3		3		3
1/4	2,142.50	1/4	1,810.43	1/4	1,478.36	1/4	1,146.29	1/4	815.94	1/4	484.48	1/4	152.45	1/4	1/4		1/4		1/4
1/2	2,135.58	1/2	1,803.51	1/2	1,471.44	1/2	1,139.38	1/2	809.08	1/2	477.56	1/2	145.53	1/2	1/2		1/2		1/2
3/4	2,128.66	3/4	1,796.60	3/4	1,464.53	3/4	1,132.46	3/4	802.21	3/4	470.64	3/4	138.62	3/4	3/4		3/4		3/4
4	2,121.75	4	1,789.68	4	1,457.61	4	1,125.54	4	795.34	4	463.72	4	131.70	4	4		4		4
1/4	2,114.83	1/4	1,782.76	1/4	1,450.69	1/4	1,118.62	1/4	788.47	1/4	456.80	1/4	124.79	1/4	1/4		1/4		1/4
1/2	2,107.91	1/2	1,775.84	1/2	1,443.77	1/2	1,111.70	1/2	781.60	1/2	449.89	1/2	117.88	1/2	1/2		1/2		1/2
3/4	2,100.99	3/4	1,768.92	3/4	1,436.85	3/4	1,104.79	3/4	774.73	3/4	442.97	3/4	110.97	3/4	3/4		3/4		3/4
5	2,094.07	5	1,762.01	5	1,429.94	5	1,097.87	5	767.86	5	436.05	5	104.07	5	5		5		5
1/4	2,087.16	1/4	1,755.09	1/4	1,423.02	1/4	1,090.95	1/4	760.99	1/4	429.13	1/4	97.17	1/4	1/4		1/4		1/4
1/2	2,080.24	1/2	1,748.17	1/2	1,416.10	1/2	1,084.03	1/2	754.12	1/2	422.22	1/2	90.27	1/2	1/2		1/2		1/2
3/4	2,073.32	3/4	1,741.25	3/4	1,409.18	3/4	1,077.12	3/4	747.24	3/4	415.30	3/4	83.55	3/4	3/4		3/4		3/4
6	2,066.40	6	1,734.33	6	1,402.26	6	1,070.22	6	740.36	6	408.38	6	76.84	6	6		6		6
1/4	2,059.48	1/4	1,727.41	1/4	1,395.35	1/4	1,063.31	1/4	733.48	1/4	401.46	1/4	70.12	1/4	1/4		1/4		1/4
1/2	2,052.57	1/2	1,720.50	1/2	1,388.43	1/2	1,056.40	1/2	726.60	1/2	394.54	1/2	63.40	1/2	1/2		1/2		1/2
3/4	2,045.65	3/4	1,713.58	3/4	1,381.51	3/4	1,049.53	3/4	719.68	3/4	387.63	3/4	57.52	3/4	3/4		3/4		3/4
7	2,038.73	7	1,706.66	7	1,374.59	7	1,042.65	7	712.76	7	380.71	7	51.65	7	7		7		7
1/4	2,031.81	1/4	1,699.74	1/4	1,367.67	1/4	1,035.78	1/4	705.84	1/4	373.79	1/4	45.77	1/4	1/4		1/4		1/4
1/2	2,024.89	1/2	1,692.82	1/2	1,360.76	1/2	1,028.90	1/2	698.93	1/2	366.88	1/2	39.89	1/2	1/2		1/2		1/2
3/4	2,017.97	3/4	1,685.91	3/4	1,353.84	3/4	1,022.03	3/4	692.01	3/4	359.96	3/4	35.39	3/4	3/4		3/4		3/4
8	2,011.06	8	1,678.99	8	1,346.92	8	1,015.15	8	685.09	8	353.05	8	30.90	8	8		8		8
1/4	2,004.14	1/4	1,672.07	1/4	1,340.00	1/4	1,008.28	1/4	678.17	1/4	346.13	1/4	26.40	1/4	1/4		1/4		1/4
1/2	1,997.22	1/2	1,665.15	1/2	1,333.08	1/2	1,001.41	1/2	671.26	1/2	339.22	1/2	21.90	1/2	1/2		1/2		1/2
3/4	1,990.30	3/4	1,658.23	3/4	1,326.16	3/4	994.54	3/4	664.34	3/4	332.30	3/4		3/4	3/4		3/4		3/4
9	1,983.38	9	1,651.32	9	1,319.25	9	987.67	9	657.42	9	325.39	9		9	9		9		9
1/4	1,976.47	1/4	1,644.40	1/4	1,312.33	1/4	980.80	1/4	650.50	1/4	318.47	1/4		1/4	1/4		1/4		1/4
1/2	1,969.55	1/2	1,637.48	1/2	1,305.41	1/2	973.93	1/2	643.58	1/2	311.56	1/2		1/2	1/2		1/2		1/2
3/4	1,962.63	3/4	1,630.56	3/4	1,298.49	3/4	967.06	3/4	636.67	3/4	304.64	3/4		3/4	3/4		3/4		3/4
10	1,955.71	10	1,623.64	10	1,291.57	10	960.19	10	629.75	10	297.72	10		10	10		10		10
1/4	1,948.79	1/4	1,616.72	1/4	1,284.66	1/4	953.32	1/4	622.83	1/4	290.80	1/4		1/4	1/4		1/4		1/4
1/2	1,941.88	1/2	1,609.81	1/2	1,277.74	1/2	946.46	1/2	615.91	1/2	283.89	1/2		1/2	1/2		1/2		1/2
3/4	1,934.96	3/4	1,602.89	3/4	1,270.82	3/4	939.59	3/4	609.00	3/4	276.97	3/4		3/4	3/4		3/4		3/4
11	1,928.04	11	1,595.97	11	1,263.90	11	932.72	11	602.08	11	270.05	11		11	11		11		11
1/4	1,921.12	1/4	1,589.05	1/4	1,256.98	1/4	925.85	1/4	595.16	1/4	263.13	1/4		1/4	1/4		1/4		1/4
1/2	1,914.20	1/2	1,582.13	1/2	1,250.07	1/2	918.98	1/2	588.24	1/2	256.22	1/2		1/2	1/2		1/2		1/2
3/4	1,907.29	3/4	1,575.22	3/4	1,243.15	3/4	912.11	3/4	581.32	3/4	249.30	3/4		3/4	3/4		3/4		3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/14/2013 SW
CALCULATED: 03/17/2013 CL
PRINTED: 03/17/2013 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2013

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



BARGE "CTCO 250"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08 3/4"

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	IN	0
1/4		1/4	5,125.05	1/4	4,840.11	1/4	4,533.60	1/4	4,209.98	1/4	3,879.37	1/4	3,548.76	1/4	3,218.15	1/4	2,887.54	1/4	2,556.90		
1/2		1/2	5,120.19	1/2	4,833.90	1/2	4,527.02	1/2	4,203.09	1/2	3,872.48	1/2	3,541.87	1/2	3,211.26	1/2	2,880.65	1/2	2,550.01		
3/4		3/4	5,115.32	3/4	4,827.69	3/4	4,520.44	3/4	4,196.20	3/4	3,865.59	3/4	3,534.98	3/4	3,204.37	3/4	2,873.76	3/4	2,543.12		
1	1	1	5,109.99	1	4,821.46	1	4,513.84	1	4,189.31	1	3,858.70	1	3,528.09	1	3,197.48	1	2,866.88	1	2,536.22		
1/4		1/4	5,104.65	1/4	4,815.22	1/4	4,507.23	1/4	4,182.43	1/4	3,851.82	1/4	3,521.21	1/4	3,190.60	1/4	2,859.99	1/4	2,529.33		
1/2		1/2	5,099.31	1/2	4,808.99	1/2	4,500.63	1/2	4,175.54	1/2	3,844.93	1/2	3,514.32	1/2	3,183.71	1/2	2,853.10	1/2	2,522.44		
3/4		3/4	5,093.98	3/4	4,802.75	3/4	4,494.02	3/4	4,168.65	3/4	3,838.04	3/4	3,507.43	3/4	3,176.82	3/4	2,846.21	3/4	2,515.55		
2	2	2	5,088.10	2	4,796.49	2	4,487.39	2	4,161.76	2	3,831.15	2	3,500.54	2	3,169.93	2	2,839.32	2	2,508.65		
1/4		1/4	5,082.22	1/4	4,790.22	1/4	4,480.76	1/4	4,154.88	1/4	3,824.27	1/4	3,493.66	1/4	3,163.05	1/4	2,832.44	1/4	2,501.76		
1/2		1/2	5,076.34	1/2	4,783.96	1/2	4,474.12	1/2	4,147.99	1/2	3,817.38	1/2	3,486.77	1/2	3,156.16	1/2	2,825.55	1/2	2,494.87		
3/4		3/4	5,070.46	3/4	4,777.70	3/4	4,467.49	3/4	4,141.10	3/4	3,810.49	3/4	3,479.88	3/4	3,149.27	3/4	2,818.66	3/4	2,487.98		
3	3	3	5,064.55	3	4,771.41	3	4,460.83	3	4,134.21	3	3,803.60	3	3,472.99	3	3,142.38	3	2,811.77	3	2,481.09		
1/4		1/4	5,058.65	1/4	4,765.12	1/4	4,454.17	1/4	4,127.32	1/4	3,796.71	1/4	3,466.10	1/4	3,135.50	1/4	2,804.89	1/4	2,474.19		
1/2		1/2	5,052.74	1/2	4,758.83	1/2	4,447.51	1/2	4,120.44	1/2	3,789.83	1/2	3,459.22	1/2	3,128.61	1/2	2,798.00	1/2	2,467.30		
3/4		3/4	5,046.83	3/4	4,752.54	3/4	4,440.85	3/4	4,113.55	3/4	3,782.94	3/4	3,452.33	3/4	3,121.72	3/4	2,791.11	3/4	2,460.41		
4	4	4	5,040.90	4	4,746.22	4	4,434.16	4	4,106.66	4	3,776.05	4	3,445.44	4	3,114.83	4	2,784.22	4	2,453.52		
1/4		1/4	5,034.97	1/4	4,739.90	1/4	4,427.47	1/4	4,099.77	1/4	3,769.16	1/4	3,438.55	1/4	3,107.94	1/4	2,777.33	1/4	2,446.62		
1/2		1/2	5,029.04	1/2	4,733.58	1/2	4,420.78	1/2	4,092.89	1/2	3,762.28	1/2	3,431.67	1/2	3,101.06	1/2	2,770.45	1/2	2,439.73		
3/4		3/4	5,023.10	3/4	4,727.26	3/4	4,414.09	3/4	4,086.00	3/4	3,755.39	3/4	3,424.78	3/4	3,094.17	3/4	2,763.56	3/4	2,432.84		
5	5	5	5,017.13	5	4,720.92	5	4,407.38	5	4,079.11	5	3,748.50	5	3,417.89	5	3,087.28	5	2,756.67	5	2,425.95		
1/4		1/4	5,011.16	1/4	4,714.57	1/4	4,400.66	1/4	4,072.22	1/4	3,741.61	1/4	3,411.00	1/4	3,080.39	1/4	2,749.78	1/4	2,419.05		
1/2		1/2	5,005.18	1/2	4,708.22	1/2	4,393.95	1/2	4,065.33	1/2	3,734.73	1/2	3,404.12	1/2	3,073.51	1/2	2,742.90	1/2	2,412.16		
3/4		3/4	4,999.21	3/4	4,701.88	3/4	4,387.23	3/4	4,058.45	3/4	3,727.84	3/4	3,397.23	3/4	3,066.62	3/4	2,736.01	3/4	2,405.27		
6	6	6	4,993.16	6	4,695.51	6	4,380.49	6	4,051.56	6	3,720.95	6	3,390.34	6	3,059.73	6	2,729.12	6	2,398.38		
1/4		1/4	4,987.12	1/4	4,689.13	1/4	4,373.75	1/4	4,044.67	1/4	3,714.06	1/4	3,383.45	1/4	3,052.84	1/4	2,722.23	1/4	2,391.48		
1/2		1/2	4,981.08	1/2	4,682.76	1/2	4,367.00	1/2	4,037.78	1/2	3,707.17	1/2	3,376.56	1/2	3,045.96	1/2	2,715.35	1/2	2,384.59		
3/4		3/4	4,975.04	3/4	4,676.39	3/4	4,360.26	3/4	4,030.90	3/4	3,700.29	3/4	3,369.68	3/4	3,039.07	3/4	2,708.46	3/4	2,377.70		
7	7	7	4,968.97	7	4,669.98	7	4,353.49	7	4,024.01	7	3,693.40	7	3,362.79	7	3,032.18	7	2,701.57	7	2,370.81		
1/4		1/4	4,962.90	1/4	4,663.58	1/4	4,346.72	1/4	4,017.12	1/4	3,686.51	1/4	3,355.90	1/4	3,025.29	1/4	2,694.68	1/4	2,363.91		
1/2		1/2	4,956.82	1/2	4,657.18	1/2	4,339.95	1/2	4,010.23	1/2	3,679.62	1/2	3,349.01	1/2	3,018.40	1/2	2,687.79	1/2	2,357.02		
3/4		3/4	4,950.75	3/4	4,650.78	3/4	4,333.18	3/4	4,003.35	3/4	3,672.74	3/4	3,342.13	3/4	3,011.52	3/4	2,680.91	3/4	2,350.13		
8	8	8	4,944.66	8	4,644.34	8	4,326.38	8	3,996.46	8	3,665.85	8	3,335.24	8	3,004.63	8	2,674.02	8	2,343.24		
1/4		1/4	4,938.56	1/4	4,637.91	1/4	4,319.58	1/4	3,989.57	1/4	3,658.96	1/4	3,328.35	1/4	2,997.74	1/4	2,667.13	1/4	2,336.34		
1/2		1/2	4,932.46	1/2	4,631.47	1/2	4,312.78	1/2	3,982.68	1/2	3,652.07	1/2	3,321.46	1/2	2,990.85	1/2	2,660.24	1/2	2,329.45		
3/4		3/4	4,926.36	3/4	4,625.03	3/4	4,305.98	3/4	3,975.79	3/4	3,645.19	3/4	3,314.58	3/4	2,983.97	3/4	2,653.36	3/4	2,322.56		
9	9	9	4,920.24	9	4,618.53	9	4,299.16	9	3,968.91	9	3,638.30	9	3,307.69	9	2,977.08	9	2,646.47	9	2,315.67		
1/4		1/4	4,914.11	1/4	4,612.04	1/4	4,292.33	1/4	3,962.02	1/4	3,631.41	1/4	3,300.80	1/4	2,970.19	1/4	2,639.58	1/4	2,308.78		
1/2		1/2	4,907.99	1/2	4,605.54	1/2	4,285.51	1/2	3,955.13	1/2	3,624.52	1/2	3,293.91	1/2	2,963.30	1/2	2,632.69	1/2	2,301.88		
3/4		3/4	4,901.86	3/4	4,599.05	3/4	4,278.68	3/4	3,948.24	3/4	3,617.63	3/4	3,287.02	3/4	2,956.42	3/4	2,625.81	3/4	2,294.99		
10	10	10	4,895.71	10	4,592.52	10	4,271.83	10	3,941.36	10	3,610.75	10	3,280.14	10	2,949.53	10	2,618.92	10	2,288.10		
1/4		1/4	4,889.55	1/4	4,586.00	1/4	4,264.97	1/4	3,934.47	1/4	3,603.86	1/4	3,273.25	1/4	2,942.64	1/4	2,612.03	1/4	2,281.21		
1/2		1/2	4,883.40	1/2	4,579.48	1/2	4,258.12	1/2	3,927.58	1/2	3,596.97	1/2	3,266.36	1/2	2,935.75	1/2	2,605.14	1/2	2,274.31		
3/4		3/4	4,877.25	3/4	4,572.96	3/4	4,251.27	3/4	3,920.69	3/4	3,590.08	3/4	3,259.47	3/4	2,928.86	3/4	2,598.26	3/4	2,267.42		
11	11	11	4,871.07	11	4,566.41	11	4,244.39	11	3,913.81	11	3,583.20	11	3,252.59	11	2,921.98	11	2,591.36	11	2,260.53		
1/4		1/4	4,864.89	1/4	4,559.86	1/4	4,237.51	1/4	3,906.92	1/4	3,576.31	1/4	3,245.70	1/4	2,915.09	1/4	2,584.47	1/4	2,253.64		
1/2		1/2	4,858.71	1/2	4,553.30	1/2	4,230.63	1/2	3,900.03	1/2	3,569.42	1/2	3,238.81	1/2	2,908.20	1/2	2,577.58	1/2	2,246.74		
3/4		3/4	4,852.53	3/4	4,546.75	3/4	4,223.75	3/4	3,893.14	3/4	3,562.53	3/4	3,231.92	3/4	2,901.31	3/4	2,570.69	3/4	2,239.85		

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" HERMETIC CLOSED GAUGING VALVE.

GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 41'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "CTCO 250"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08 3/4"

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	2,232.96	0	1,902.12	0	1,571.29	0	1,240.45	0	909.78	0	579.16	0	248.37	0		0		0	
1/4	2,226.07	1/4	1,895.23	1/4	1,564.40	1/4	1,233.56	1/4	902.90	1/4	572.27	1/4	241.47	1/4	1/4	1/4		1/4	1/4
1/2	2,219.17	1/2	1,888.34	1/2	1,557.50	1/2	1,226.67	1/2	896.02	1/2	565.38	1/2	234.58	1/2	1/2	1/2		1/2	1/2
3/4	2,212.28	3/4	1,881.45	3/4	1,550.61	3/4	1,219.78	3/4	889.13	3/4	558.48	3/4	227.69	3/4	3/4	3/4		3/4	3/4
1	2,205.39	1	1,874.55	1	1,543.72	1	1,212.88	1	882.25	1	551.59	1	220.80	1	1	1		1	1
1/4	2,198.50	1/4	1,867.66	1/4	1,536.83	1/4	1,205.99	1/4	875.37	1/4	544.70	1/4	213.91	1/4	1/4	1/4		1/4	1/4
1/2	2,191.60	1/2	1,860.77	1/2	1,529.93	1/2	1,199.10	1/2	868.48	1/2	537.81	1/2	207.01	1/2	1/2	1/2		1/2	1/2
3/4	2,184.71	3/4	1,853.88	3/4	1,523.04	3/4	1,192.21	3/4	861.60	3/4	530.92	3/4	200.12	3/4	3/4	3/4		3/4	3/4
2	2,177.82	2	1,846.98	2	1,516.15	2	1,185.31	2	854.72	2	524.02	2	193.23	2	2	2		2	2
1/4	2,170.93	1/4	1,840.09	1/4	1,509.26	1/4	1,178.42	1/4	847.83	1/4	517.13	1/4	186.34	1/4	1/4	1/4		1/4	1/4
1/2	2,164.03	1/2	1,833.20	1/2	1,502.36	1/2	1,171.53	1/2	840.95	1/2	510.24	1/2	179.45	1/2	1/2	1/2		1/2	1/2
3/4	2,157.14	3/4	1,826.31	3/4	1,495.47	3/4	1,164.64	3/4	834.07	3/4	503.35	3/4	172.55	3/4	3/4	3/4		3/4	3/4
3	2,150.25	3	1,819.41	3	1,488.58	3	1,157.74	3	827.19	3	496.45	3	165.66	3	3	3		3	3
1/4	2,143.36	1/4	1,812.52	1/4	1,481.69	1/4	1,150.85	1/4	820.30	1/4	489.56	1/4	158.77	1/4	1/4	1/4		1/4	1/4
1/2	2,136.47	1/2	1,805.63	1/2	1,474.79	1/2	1,143.96	1/2	813.42	1/2	482.67	1/2	151.88	1/2	1/2	1/2		1/2	1/2
3/4	2,129.57	3/4	1,798.74	3/4	1,467.90	3/4	1,137.07	3/4	806.54	3/4	475.78	3/4	144.99	3/4	3/4	3/4		3/4	3/4
4	2,122.68	4	1,791.85	4	1,461.01	4	1,130.17	4	799.65	4	468.89	4	138.10	4	4	4		4	4
1/4	2,115.79	1/4	1,784.95	1/4	1,454.12	1/4	1,123.28	1/4	792.77	1/4	461.99	1/4	131.21	1/4	1/4	1/4		1/4	1/4
1/2	2,108.90	1/2	1,778.06	1/2	1,447.23	1/2	1,116.39	1/2	785.89	1/2	455.10	1/2	124.32	1/2	1/2	1/2		1/2	1/2
3/4	2,102.00	3/4	1,771.17	3/4	1,440.33	3/4	1,109.50	3/4	779.00	3/4	448.21	3/4	117.43	3/4	3/4	3/4		3/4	3/4
5	2,095.11	5	1,764.28	5	1,433.44	5	1,102.61	5	772.12	5	441.32	5	110.56	5	5	5		5	5
1/4	2,088.22	1/4	1,757.38	1/4	1,426.55	1/4	1,095.71	1/4	765.23	1/4	434.43	1/4	103.68	1/4	1/4	1/4		1/4	1/4
1/2	2,081.33	1/2	1,750.49	1/2	1,419.66	1/2	1,088.82	1/2	758.35	1/2	427.53	1/2	96.81	1/2	1/2	1/2		1/2	1/2
3/4	2,074.43	3/4	1,743.60	3/4	1,412.76	3/4	1,081.93	3/4	751.46	3/4	420.64	3/4	89.93	3/4	3/4	3/4		3/4	3/4
6	2,067.54	6	1,736.71	6	1,405.87	6	1,075.04	6	744.57	6	413.75	6	83.24	6	6	6		6	6
1/4	2,060.65	1/4	1,729.81	1/4	1,398.98	1/4	1,068.14	1/4	737.68	1/4	406.86	1/4	76.55	1/4	1/4	1/4		1/4	1/4
1/2	2,053.76	1/2	1,722.92	1/2	1,392.09	1/2	1,061.25	1/2	730.79	1/2	399.97	1/2	69.86	1/2	1/2	1/2		1/2	1/2
3/4	2,046.86	3/4	1,716.03	3/4	1,385.19	3/4	1,054.36	3/4	723.89	3/4	393.07	3/4	63.16	3/4	3/4	3/4		3/4	3/4
7	2,039.97	7	1,709.14	7	1,378.30	7	1,047.47	7	717.00	7	386.18	7	57.31	7	7	7		7	7
1/4	2,033.08	1/4	1,702.24	1/4	1,371.41	1/4	1,040.58	1/4	710.11	1/4	379.29	1/4	51.45	1/4	1/4	1/4		1/4	1/4
1/2	2,026.19	1/2	1,695.35	1/2	1,364.52	1/2	1,033.69	1/2	703.22	1/2	372.40	1/2	45.59	1/2	1/2	1/2		1/2	1/2
3/4	2,019.29	3/4	1,688.46	3/4	1,357.62	3/4	1,026.80	3/4	696.33	3/4	365.51	3/4	39.74	3/4	3/4	3/4		3/4	3/4
8	2,012.40	8	1,681.57	8	1,350.73	8	1,019.91	8	689.43	8	358.62	8	35.26	8	8	8		8	8
1/4	2,005.51	1/4	1,674.67	1/4	1,343.84	1/4	1,013.03	1/4	682.54	1/4	351.73	1/4	30.78	1/4	1/4	1/4		1/4	1/4
1/2	1,998.62	1/2	1,667.78	1/2	1,336.95	1/2	1,006.15	1/2	675.65	1/2	344.84	1/2	26.30	1/2	1/2	1/2		1/2	1/2
3/4	1,991.72	3/4	1,660.89	3/4	1,330.05	3/4	999.27	3/4	668.76	3/4	337.95	3/4	21.82	3/4	3/4	3/4		3/4	3/4
9	1,984.83	9	1,654.00	9	1,323.16	9	992.38	9	661.87	9	331.06	9		9	9	9		9	9
1/4	1,977.94	1/4	1,647.10	1/4	1,316.27	1/4	985.50	1/4	654.97	1/4	324.17	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,971.05	1/2	1,640.21	1/2	1,309.38	1/2	978.62	1/2	648.08	1/2	317.29	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,964.16	3/4	1,633.32	3/4	1,302.48	3/4	971.73	3/4	641.19	3/4	310.40	3/4		3/4	3/4	3/4		3/4	3/4
10	1,957.26	10	1,626.43	10	1,295.59	10	964.85	10	634.30	10	303.50	10		10	10	10		10	10
1/4	1,950.37	1/4	1,619.54	1/4	1,288.70	1/4	957.97	1/4	627.40	1/4	296.61	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,943.48	1/2	1,612.64	1/2	1,281.81	1/2	951.08	1/2	620.51	1/2	289.72	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,936.59	3/4	1,605.75	3/4	1,274.92	3/4	944.20	3/4	613.62	3/4	282.83	3/4		3/4	3/4	3/4		3/4	3/4
11	1,929.69	11	1,598.86	11	1,268.02	11	937.32	11	606.73	11	275.94	11		11	11	11		11	11
1/4	1,922.80	1/4	1,591.97	1/4	1,261.13	1/4	930.43	1/4	599.84	1/4	269.04	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,915.91	1/2	1,585.07	1/2	1,254.24	1/2	923.55	1/2	592.94	1/2	262.15	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,909.02	3/4	1,578.18	3/4	1,247.35	3/4	916.67	3/4	586.05	3/4	255.26	3/4		3/4	3/4	3/4		3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/14/2013 SW
CALCULATED: 03/17/2013 CL
PRINTED: 03/17/2013 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2013

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "CTCO 250"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08 3/8"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN			
0		0	5,104.82	0	4,781.81	0	4,452.47	0	4,121.86	0	3,791.25	0	3,460.64	0	3,130.03	0	2,799.42	0	2,468.78		
1/4		1/4	5,099.72	1/4	4,774.96	1/4	4,445.58	1/4	4,114.97	1/4	3,784.36	1/4	3,453.75	1/4	3,123.14	1/4	2,792.53	1/4	2,461.89		
1/2		1/2	5,093.59	1/2	4,768.11	1/2	4,438.69	1/2	4,108.08	1/2	3,777.48	1/2	3,446.87	1/2	3,116.26	1/2	2,785.65	1/2	2,455.00		
3/4		3/4	5,087.45	3/4	4,761.26	3/4	4,431.81	3/4	4,101.20	3/4	3,770.59	3/4	3,439.98	3/4	3,109.37	3/4	2,778.76	3/4	2,448.11		
1		1	5,081.32	1	4,754.42	1	4,424.92	1	4,094.31	1	3,763.70	1	3,433.09	1	3,102.48	1	2,771.87	1	2,441.21		
1/4		1/4	5,075.19	1/4	4,747.57	1/4	4,418.03	1/4	4,087.42	1/4	3,756.81	1/4	3,426.20	1/4	3,095.59	1/4	2,764.98	1/4	2,434.32		
1/2		1/2	5,068.46	1/2	4,740.72	1/2	4,411.14	1/2	4,080.53	1/2	3,749.92	1/2	3,419.31	1/2	3,088.71	1/2	2,758.10	1/2	2,427.43		
3/4		3/4	5,061.73	3/4	4,733.87	3/4	4,404.26	3/4	4,073.65	3/4	3,743.04	3/4	3,412.43	3/4	3,081.82	3/4	2,751.21	3/4	2,420.54		
2		2	5,055.00	2	4,727.02	2	4,397.37	2	4,066.76	2	3,736.15	2	3,405.54	2	3,074.93	2	2,744.32	2	2,413.64		
1/4		1/4	5,048.27	1/4	4,720.17	1/4	4,390.48	1/4	4,059.87	1/4	3,729.26	1/4	3,398.65	1/4	3,068.04	1/4	2,737.43	1/4	2,406.75		
1/2		1/2	5,041.47	1/2	4,713.33	1/2	4,383.59	1/2	4,052.98	1/2	3,722.37	1/2	3,391.76	1/2	3,061.15	1/2	2,730.54	1/2	2,399.86		
3/4		3/4	5,034.68	3/4	4,706.48	3/4	4,376.71	3/4	4,046.10	3/4	3,715.49	3/4	3,384.88	3/4	3,054.27	3/4	2,723.66	3/4	2,392.97		
3		3	5,027.88	3	4,699.63	3	4,369.82	3	4,039.21	3	3,708.60	3	3,377.99	3	3,047.38	3	2,716.77	3	2,386.07		
1/4		1/4	5,021.09	1/4	4,692.78	1/4	4,362.93	1/4	4,032.32	1/4	3,701.71	1/4	3,371.10	1/4	3,040.49	1/4	2,709.88	1/4	2,379.18		
1/2		1/2	5,014.29	1/2	4,685.93	1/2	4,356.04	1/2	4,025.43	1/2	3,694.82	1/2	3,364.21	1/2	3,033.60	1/2	2,702.99	1/2	2,372.29		
3/4		3/4	5,007.50	3/4	4,679.08	3/4	4,349.15	3/4	4,018.54	3/4	3,687.94	3/4	3,357.33	3/4	3,026.72	3/4	2,696.11	3/4	2,365.40		
4		4	5,000.71	4	4,672.24	4	4,342.27	4	4,011.66	4	3,681.05	4	3,350.44	4	3,019.83	4	2,689.22	4	2,358.50		
1/4		1/4	4,993.92	1/4	4,665.39	1/4	4,335.38	1/4	4,004.77	1/4	3,674.16	1/4	3,343.55	1/4	3,012.94	1/4	2,682.33	1/4	2,351.61		
1/2		1/2	4,987.11	1/2	4,658.54	1/2	4,328.49	1/2	3,997.88	1/2	3,667.27	1/2	3,336.66	1/2	3,006.05	1/2	2,675.44	1/2	2,344.72		
3/4		3/4	4,980.30	3/4	4,651.69	3/4	4,321.60	3/4	3,990.99	3/4	3,660.38	3/4	3,329.77	3/4	2,999.17	3/4	2,668.56	3/4	2,337.83		
5		5	4,973.50	5	4,644.84	5	4,314.72	5	3,984.11	5	3,653.50	5	3,322.89	5	2,992.28	5	2,661.67	5	2,330.93		
1/4		1/4	4,966.69	1/4	4,637.99	1/4	4,307.83	1/4	3,977.22	1/4	3,646.61	1/4	3,316.00	1/4	2,985.39	1/4	2,654.78	1/4	2,324.04		
1/2		1/2	4,959.85	1/2	4,631.15	1/2	4,300.94	1/2	3,970.33	1/2	3,639.72	1/2	3,309.11	1/2	2,978.50	1/2	2,647.89	1/2	2,317.15		
3/4		3/4	4,953.01	3/4	4,624.30	3/4	4,294.05	3/4	3,963.44	3/4	3,632.83	3/4	3,302.22	3/4	2,971.61	3/4	2,641.00	3/4	2,310.26		
6		6	4,946.17	6	4,617.45	6	4,287.17	6	3,956.56	6	3,625.95	6	3,295.34	6	2,964.73	6	2,634.12	6	2,303.36		
1/4		1/4	4,939.32	1/4	4,610.60	1/4	4,280.28	1/4	3,949.67	1/4	3,619.06	1/4	3,288.45	1/4	2,957.84	1/4	2,627.23	1/4	2,296.47		
1/2		1/2	4,932.47	1/2	4,603.75	1/2	4,273.39	1/2	3,942.78	1/2	3,612.17	1/2	3,281.56	1/2	2,950.95	1/2	2,620.34	1/2	2,289.58		
3/4		3/4	4,925.63	3/4	4,596.90	3/4	4,266.50	3/4	3,935.89	3/4	3,605.28	3/4	3,274.67	3/4	2,944.06	3/4	2,613.45	3/4	2,282.69		
7		7	4,918.78	7	4,590.05	7	4,259.61	7	3,929.00	7	3,598.40	7	3,267.79	7	2,937.18	7	2,606.57	7	2,275.80		
1/4		1/4	4,911.93	1/4	4,583.21	1/4	4,252.73	1/4	3,922.12	1/4	3,591.51	1/4	3,260.90	1/4	2,930.29	1/4	2,599.68	1/4	2,268.90		
1/2		1/2	4,905.08	1/2	4,576.35	1/2	4,245.84	1/2	3,915.23	1/2	3,584.62	1/2	3,254.01	1/2	2,923.40	1/2	2,592.79	1/2	2,262.01		
3/4		3/4	4,898.23	3/4	4,569.49	3/4	4,238.95	3/4	3,908.34	3/4	3,577.73	3/4	3,247.12	3/4	2,916.51	3/4	2,585.90	3/4	2,255.12		
8		8	4,891.38	8	4,562.64	8	4,232.06	8	3,901.45	8	3,570.84	8	3,240.23	8	2,909.63	8	2,579.02	8	2,248.23		
1/4		1/4	4,884.54	1/4	4,555.78	1/4	4,225.18	1/4	3,894.57	1/4	3,563.96	1/4	3,233.35	1/4	2,902.74	1/4	2,572.13	1/4	2,241.33		
1/2		1/2	4,877.69	1/2	4,548.89	1/2	4,218.29	1/2	3,887.68	1/2	3,557.07	1/2	3,226.46	1/2	2,895.85	1/2	2,565.24	1/2	2,234.44		
3/4		3/4	4,870.84	3/4	4,542.01	3/4	4,211.40	3/4	3,880.79	3/4	3,550.18	3/4	3,219.57	3/4	2,888.96	3/4	2,558.35	3/4	2,227.55		
9		9	4,863.99	9	4,535.12	9	4,204.51	9	3,873.90	9	3,543.29	9	3,212.68	9	2,882.07	9	2,551.46	9	2,220.66		
1/4		1/4	4,857.14	1/4	4,528.23	1/4	4,197.62	1/4	3,867.02	1/4	3,536.41	1/4	3,205.80	1/4	2,875.19	1/4	2,544.58	1/4	2,213.76		
1/2		1/2	4,850.29	1/2	4,521.35	1/2	4,190.74	1/2	3,860.13	1/2	3,529.52	1/2	3,198.91	1/2	2,868.30	1/2	2,537.69	1/2	2,206.87		
3/4		3/4	4,843.45	3/4	4,514.46	3/4	4,183.85	3/4	3,853.24	3/4	3,522.63	3/4	3,192.02	3/4	2,861.41	3/4	2,530.80	3/4	2,199.98		
10		10	4,836.60	10	4,507.57	10	4,176.96	10	3,846.35	10	3,515.74	10	3,185.13	10	2,854.52	10	2,523.91	10	2,193.09		
1/4		1/4	4,829.75	1/4	4,500.68	1/4	4,170.07	1/4	3,839.46	1/4	3,508.85	1/4	3,178.25	1/4	2,847.64	1/4	2,517.02	1/4	2,186.19		
1/2		1/2	4,822.90	1/2	4,493.80	1/2	4,163.19	1/2	3,832.58	1/2	3,501.97	1/2	3,171.36	1/2	2,840.75	1/2	2,510.13	1/2	2,179.30		
3/4		3/4	4,816.05	3/4	4,486.91	3/4	4,156.30	3/4	3,825.69	3/4	3,495.08	3/4	3,164.47	3/4	2,833.86	3/4	2,503.24	3/4	2,172.41		
11		11	4,809.20	11	4,480.02	11	4,149.41	11	3,818.80	11	3,488.19	11	3,157.58	11	2,826.97	11	2,496.35	11	2,165.52		
1/4		1/4	4,802.36	1/4	4,473.13	1/4	4,142.52	1/4	3,811.91	1/4	3,481.30	1/4	3,150.69	1/4	2,820.08	1/4	2,489.46	1/4	2,158.62		
1/2		1/2	4,795.51	1/2	4,466.25	1/2	4,135.64	1/2	3,805.03	1/2	3,474.42	1/2	3,143.81	1/2	2,813.20	1/2	2,482.57	1/2	2,151.73		
7/8		7/8	5,107.37	3/4	4,788.66	3/4	4,459.36	3/4	4,128.75	3/4	3,798.14	3/4	3,467.53	3/4	3,136.92	3/4	2,806.31	3/4	2,475.67	3/4	2,144.84

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" HERMETIC CLOSED GAUGING VALVE.

GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 41'-09" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "CTCO 250"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08 3/8"

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	2,137.95	0	1,807.11	0	1,476.28	0	1,145.44	0	823.84	0	539.35	0	231.19	0		0		0	
1/4	2,131.05	1/4	1,800.22	1/4	1,469.38	1/4	1,138.55	1/4	817.52	1/4	533.10	1/4	224.61	1/4	1/4	1/4		1/4	1/4
1/2	2,124.16	1/2	1,793.33	1/2	1,462.49	1/2	1,131.66	1/2	811.85	1/2	526.82	1/2	218.01	1/2	1/2	1/2		1/2	1/2
3/4	2,117.27	3/4	1,786.43	3/4	1,455.60	3/4	1,124.76	3/4	806.18	3/4	520.55	3/4	211.40	3/4	3/4	3/4		3/4	3/4
1	2,110.38	1	1,779.54	1	1,448.71	1	1,117.87	1	800.51	1	514.27	1	204.79	1	1	1		1	1
1/4	2,103.49	1/4	1,772.65	1/4	1,441.81	1/4	1,110.98	1/4	794.84	1/4	508.00	1/4	198.19	1/4	1/4	1/4		1/4	1/4
1/2	2,096.59	1/2	1,765.76	1/2	1,434.92	1/2	1,104.09	1/2	789.23	1/2	501.69	1/2	191.55	1/2	1/2	1/2		1/2	1/2
3/4	2,089.70	3/4	1,758.87	3/4	1,428.03	3/4	1,097.19	3/4	783.63	3/4	495.39	3/4	184.92	3/4	3/4	3/4		3/4	3/4
2	2,082.81	2	1,751.97	2	1,421.14	2	1,090.30	2	778.02	2	489.09	2	178.29	2	2	2		2	2
1/4	2,075.92	1/4	1,745.08	1/4	1,414.25	1/4	1,083.41	1/4	772.41	1/4	482.78	1/4	171.65	1/4	1/4	1/4		1/4	1/4
1/2	2,069.02	1/2	1,738.19	1/2	1,407.35	1/2	1,076.52	1/2	766.78	1/2	476.45	1/2	164.99	1/2	1/2	1/2		1/2	1/2
3/4	2,062.13	3/4	1,731.30	3/4	1,400.46	3/4	1,069.63	3/4	761.15	3/4	470.12	3/4	158.33	3/4	3/4	3/4		3/4	3/4
3	2,055.24	3	1,724.40	3	1,393.57	3	1,062.73	3	755.51	3	463.79	3	151.67	3	3	3		3	3
1/4	2,048.35	1/4	1,717.51	1/4	1,386.68	1/4	1,055.84	1/4	749.88	1/4	457.46	1/4	145.01	1/4	1/4	1/4		1/4	1/4
1/2	2,041.45	1/2	1,710.62	1/2	1,379.78	1/2	1,048.95	1/2	744.22	1/2	451.10	1/2	138.32	1/2	1/2	1/2		1/2	1/2
3/4	2,034.56	3/4	1,703.73	3/4	1,372.89	3/4	1,042.06	3/4	738.56	3/4	444.74	3/4	131.64	3/4	3/4	3/4		3/4	3/4
4	2,027.67	4	1,696.83	4	1,366.00	4	1,035.16	4	732.90	4	438.38	4	124.95	4	4	4		4	4
1/4	2,020.78	1/4	1,689.94	1/4	1,359.11	1/4	1,028.27	1/4	727.24	1/4	432.02	1/4	118.26	1/4	1/4	1/4		1/4	1/4
1/2	2,013.88	1/2	1,683.05	1/2	1,352.21	1/2	1,021.38	1/2	721.55	1/2	425.64	1/2	111.56	1/2	1/2	1/2		1/2	1/2
3/4	2,006.99	3/4	1,676.16	3/4	1,345.32	3/4	1,014.49	3/4	715.86	3/4	419.25	3/4	104.86	3/4	3/4	3/4		3/4	3/4
5	2,000.10	5	1,669.26	5	1,338.43	5	1,007.59	5	710.17	5	412.87	5	98.16	5	5	5		5	5
1/4	1,993.21	1/4	1,662.37	1/4	1,331.54	1/4	1,000.70	1/4	704.48	1/4	406.48	1/4	91.46	1/4	1/4	1/4		1/4	1/4
1/2	1,986.31	1/2	1,655.48	1/2	1,324.64	1/2	993.89	1/2	698.68	1/2	400.07	1/2	84.89	1/2	1/2	1/2		1/2	1/2
3/4	1,979.42	3/4	1,648.59	3/4	1,317.75	3/4	987.07	3/4	692.87	3/4	393.65	3/4	78.32	3/4	3/4	3/4		3/4	3/4
6	1,972.53	6	1,641.69	6	1,310.86	6	980.26	6	687.07	6	387.24	6	71.76	6	6	6		6	6
1/4	1,965.64	1/4	1,634.80	1/4	1,303.97	1/4	973.45	1/4	681.27	1/4	380.83	1/4	65.19	1/4	1/4	1/4		1/4	1/4
1/2	1,958.74	1/2	1,627.91	1/2	1,297.07	1/2	966.88	1/2	675.20	1/2	374.38	1/2	59.35	1/2	1/2	1/2		1/2	1/2
3/4	1,951.85	3/4	1,621.02	3/4	1,290.18	3/4	960.32	3/4	669.12	3/4	367.94	3/4	53.51	3/4	3/4	3/4		3/4	3/4
7	1,944.96	7	1,614.12	7	1,283.29	7	953.76	7	663.04	7	361.50	7	47.67	7	7	7		7	7
1/4	1,938.07	1/4	1,607.23	1/4	1,276.40	1/4	947.19	1/4	656.97	1/4	355.06	1/4	41.83	1/4	1/4	1/4		1/4	1/4
1/2	1,931.18	1/2	1,600.34	1/2	1,269.50	1/2	940.67	1/2	650.83	1/2	348.60	1/2	37.27	1/2	1/2	1/2		1/2	1/2
3/4	1,924.28	3/4	1,593.45	3/4	1,262.61	3/4	934.14	3/4	644.69	3/4	342.13	3/4	32.71	3/4	3/4	3/4		3/4	3/4
8	1,917.39	8	1,586.56	8	1,255.72	8	927.62	8	638.55	8	335.67	8	28.15	8	8	8		8	8
1/4	1,910.50	1/4	1,579.66	1/4	1,248.83	1/4	921.09	1/4	632.41	1/4	329.20	1/4	23.59	1/4	1/4	1/4		1/4	1/4
1/2	1,903.61	1/2	1,572.77	1/2	1,241.94	1/2	914.56	1/2	626.25	1/2	322.71	1/2	21.40	1/2	1/2	1/2		1/2	1/2
3/4	1,896.71	3/4	1,565.88	3/4	1,235.04	3/4	908.04	3/4	620.08	3/4	316.21	3/4		3/4	3/4	3/4		3/4	3/4
9	1,889.82	9	1,558.99	9	1,228.15	9	901.51	9	613.92	9	309.72	9		9	9	9		9	9
1/4	1,882.93	1/4	1,552.09	1/4	1,221.26	1/4	894.99	1/4	607.75	1/4	303.23	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,876.04	1/2	1,545.20	1/2	1,214.37	1/2	888.46	1/2	601.56	1/2	296.70	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,869.14	3/4	1,538.31	3/4	1,207.47	3/4	881.94	3/4	595.36	3/4	290.18	3/4		3/4	3/4	3/4		3/4	3/4
10	1,862.25	10	1,531.42	10	1,200.58	10	875.41	10	589.17	10	283.66	10		10	10	10		10	10
1/4	1,855.36	1/4	1,524.52	1/4	1,193.69	1/4	868.89	1/4	582.98	1/4	277.13	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,848.47	1/2	1,517.63	1/2	1,186.80	1/2	862.36	1/2	576.76	1/2	270.58	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,841.57	3/4	1,510.74	3/4	1,179.90	3/4	855.84	3/4	570.53	3/4	264.03	3/4		3/4	3/4	3/4		3/4	3/4
11	1,834.68	11	1,503.85	11	1,173.01	11	849.31	11	564.31	11	257.48	11		11	11	11		11	11
1/4	1,827.79	1/4	1,496.95	1/4	1,166.12	1/4	842.79	1/4	558.09	1/4	250.93	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,820.90	1/2	1,490.06	1/2	1,159.23	1/2	836.47	1/2	551.84	1/2	244.35	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,814.00	3/4	1,483.17	3/4	1,152.33	3/4	830.15	3/4	545.60	3/4	237.77	3/4		3/4	3/4	3/4		3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/14/2013 SW
CALCULATED: 03/17/2013 CL
PRINTED: 03/17/2013 SW

CANCELS AND SUPERCEDES
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BARGE "CTCO 250"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0	4,441.31	0	4,231.18	0	4,008.82	0	3,781.44	0	3,541.32	0	3,212.02	0	2,882.72	0	2,553.40
1/4		1/4	4,630.37	1/4	4,437.05	1/4	4,226.66	1/4	4,004.09	1/4	3,776.71	1/4	3,534.46	1/4	3,205.16	1/4	2,875.86	1/4	2,546.54
1/2		1/2	4,627.58	1/2	4,432.79	1/2	4,222.13	1/2	3,999.35	1/2	3,771.97	1/2	3,527.60	1/2	3,198.30	1/2	2,869.00	1/2	2,539.67
3/4		3/4	4,624.78	3/4	4,428.54	3/4	4,217.61	3/4	3,994.61	3/4	3,767.23	3/4	3,520.74	3/4	3,191.44	3/4	2,862.14	3/4	2,532.81
1		1	4,621.30	1	4,424.26	1	4,213.07	1	3,989.88	1	3,762.50	1	3,513.88	1	3,184.58	1	2,855.28	1	2,525.94
1/4		1/4	4,617.82	1/4	4,419.98	1/4	4,208.52	1/4	3,985.14	1/4	3,757.76	1/4	3,507.02	1/4	3,177.72	1/4	2,848.42	1/4	2,519.08
1/2		1/2	4,614.35	1/2	4,415.71	1/2	4,203.98	1/2	3,980.40	1/2	3,753.02	1/2	3,500.16	1/2	3,170.86	1/2	2,841.56	1/2	2,512.21
3/4		3/4	4,610.87	3/4	4,411.43	3/4	4,199.44	3/4	3,975.66	3/4	3,748.28	3/4	3,493.30	3/4	3,164.00	3/4	2,834.70	3/4	2,505.34
2		2	4,606.85	2	4,407.14	2	4,194.88	2	3,970.93	2	3,743.55	2	3,486.44	2	3,157.14	2	2,827.84	2	2,498.48
1/4		1/4	4,602.84	1/4	4,402.84	1/4	4,190.31	1/4	3,966.19	1/4	3,738.81	1/4	3,479.58	1/4	3,150.28	1/4	2,820.98	1/4	2,491.61
1/2		1/2	4,598.82	1/2	4,398.55	1/2	4,185.75	1/2	3,961.45	1/2	3,734.07	1/2	3,472.72	1/2	3,143.42	1/2	2,814.12	1/2	2,484.75
3/4		3/4	4,594.81	3/4	4,394.25	3/4	4,181.19	3/4	3,956.72	3/4	3,729.34	3/4	3,465.86	3/4	3,136.56	3/4	2,807.26	3/4	2,477.88
3		3	4,590.78	3	4,389.94	3	4,176.61	3	3,951.98	3	3,724.60	3	3,459.00	3	3,129.70	3	2,800.40	3	2,471.02
1/4		1/4	4,586.74	1/4	4,385.62	1/4	4,172.03	1/4	3,947.24	1/4	3,719.86	1/4	3,452.14	1/4	3,122.84	1/4	2,793.54	1/4	2,464.15
1/2		1/2	4,582.71	1/2	4,381.31	1/2	4,167.45	1/2	3,942.51	1/2	3,715.12	1/2	3,445.28	1/2	3,115.98	1/2	2,786.68	1/2	2,457.29
3/4		3/4	4,578.68	3/4	4,377.00	3/4	4,162.87	3/4	3,937.77	3/4	3,710.39	3/4	3,438.42	3/4	3,109.12	3/4	2,779.82	3/4	2,450.42
4		4	4,574.63	4	4,372.66	4	4,158.27	4	3,933.03	4	3,705.65	4	3,431.56	4	3,102.26	4	2,772.96	4	2,443.56
1/4		1/4	4,570.58	1/4	4,368.33	1/4	4,153.67	1/4	3,928.29	1/4	3,700.91	1/4	3,424.70	1/4	3,095.40	1/4	2,766.10	1/4	2,436.69
1/2		1/2	4,566.53	1/2	4,364.00	1/2	4,149.07	1/2	3,923.56	1/2	3,696.18	1/2	3,417.84	1/2	3,088.54	1/2	2,759.24	1/2	2,429.83
3/4		3/4	4,562.48	3/4	4,359.66	3/4	4,144.47	3/4	3,918.82	3/4	3,691.44	3/4	3,410.98	3/4	3,081.68	3/4	2,752.38	3/4	2,422.96
5		5	4,558.39	5	4,355.31	5	4,139.85	5	3,914.08	5	3,686.70	5	3,404.11	5	3,074.82	5	2,745.52	5	2,416.10
1/4		1/4	4,554.31	1/4	4,350.96	1/4	4,135.23	1/4	3,909.35	1/4	3,681.96	1/4	3,397.25	1/4	3,067.96	1/4	2,738.66	1/4	2,409.23
1/2		1/2	4,550.23	1/2	4,346.61	1/2	4,130.61	1/2	3,904.61	1/2	3,677.23	1/2	3,390.39	1/2	3,061.09	1/2	2,731.80	1/2	2,402.37
3/4		3/4	4,546.15	3/4	4,342.26	3/4	4,125.99	3/4	3,899.87	3/4	3,672.49	3/4	3,383.53	3/4	3,054.23	3/4	2,724.94	3/4	2,395.50
6		6	4,542.00	6	4,337.88	6	4,121.36	6	3,895.13	6	3,667.75	6	3,376.67	6	3,047.37	6	2,718.07	6	2,388.64
1/4		1/4	4,537.86	1/4	4,333.51	1/4	4,116.72	1/4	3,890.40	1/4	3,663.02	1/4	3,369.81	1/4	3,040.51	1/4	2,711.21	1/4	2,381.77
1/2		1/2	4,533.71	1/2	4,329.14	1/2	4,112.08	1/2	3,885.66	1/2	3,658.28	1/2	3,362.95	1/2	3,033.65	1/2	2,704.35	1/2	2,374.91
3/4		3/4	4,529.57	3/4	4,324.77	3/4	4,107.44	3/4	3,880.92	3/4	3,653.54	3/4	3,356.09	3/4	3,026.79	3/4	2,697.49	3/4	2,368.04
7		7	4,525.41	7	4,320.38	7	4,102.79	7	3,876.19	7	3,648.80	7	3,349.23	7	3,019.93	7	2,690.63	7	2,361.18
1/4		1/4	4,521.25	1/4	4,315.99	1/4	4,098.13	1/4	3,871.45	1/4	3,644.07	1/4	3,342.37	1/4	3,013.07	1/4	2,683.77	1/4	2,354.31
1/2		1/2	4,517.08	1/2	4,311.60	1/2	4,093.47	1/2	3,866.71	1/2	3,639.33	1/2	3,335.51	1/2	3,006.21	1/2	2,676.91	1/2	2,347.45
3/4		3/4	4,512.92	3/4	4,307.21	3/4	4,088.82	3/4	3,861.97	3/4	3,634.59	3/4	3,328.65	3/4	2,999.35	3/4	2,670.05	3/4	2,340.58
8		8	4,508.74	8	4,302.79	8	4,084.14	8	3,857.24	8	3,629.86	8	3,321.79	8	2,992.49	8	2,663.19	8	2,333.72
1/4		1/4	4,504.56	1/4	4,298.38	1/4	4,079.47	1/4	3,852.50	1/4	3,625.12	1/4	3,314.93	1/4	2,985.63	1/4	2,656.33	1/4	2,326.85
1/2		1/2	4,500.38	1/2	4,293.96	1/2	4,074.79	1/2	3,847.76	1/2	3,620.38	1/2	3,308.07	1/2	2,978.77	1/2	2,649.47	1/2	2,319.99
3/4		3/4	4,496.20	3/4	4,289.54	3/4	4,070.12	3/4	3,843.03	3/4	3,615.65	3/4	3,301.21	3/4	2,971.91	3/4	2,642.61	3/4	2,313.12
9		9	4,492.00	9	4,285.07	9	4,065.42	9	3,838.29	9	3,610.91	9	3,294.35	9	2,965.05	9	2,635.75	9	2,306.26
1/4		1/4	4,487.80	1/4	4,280.60	1/4	4,060.73	1/4	3,833.55	1/4	3,606.17	1/4	3,287.49	1/4	2,958.19	1/4	2,628.89	1/4	2,299.39
1/2		1/2	4,483.60	1/2	4,276.14	1/2	4,056.03	1/2	3,828.81	1/2	3,601.43	1/2	3,280.63	1/2	2,951.33	1/2	2,622.03	1/2	2,292.53
3/4		3/4	4,479.39	3/4	4,271.67	3/4	4,051.34	3/4	3,824.08	3/4	3,596.70	3/4	3,273.77	3/4	2,944.47	3/4	2,615.17	3/4	2,285.66
10		10	4,475.18	10	4,267.18	10	4,046.62	10	3,819.34	10	3,591.43	10	3,266.91	10	2,937.61	10	2,608.31	10	2,278.80
1/4		1/4	4,470.96	1/4	4,262.70	1/4	4,041.91	1/4	3,814.60	1/4	3,586.16	1/4	3,260.05	1/4	2,930.75	1/4	2,601.45	1/4	2,271.93
1/2		1/2	4,466.74	1/2	4,258.21	1/2	4,037.20	1/2	3,809.87	1/2	3,580.89	1/2	3,253.19	1/2	2,923.89	1/2	2,594.59	1/2	2,265.07
3/4		3/4	4,462.52	3/4	4,253.73	3/4	4,032.48	3/4	3,805.13	3/4	3,575.62	3/4	3,246.33	3/4	2,917.03	3/4	2,587.73	3/4	2,258.20
11		11	4,458.28	11	4,249.22	11	4,027.75	11	3,800.39	11	3,568.76	11	3,239.47	11	2,910.17	11	2,580.86	11	2,251.34
1/4		1/4	4,454.04	1/4	4,244.72	1/4	4,023.02	1/4	3,795.66	1/4	3,561.90	1/4	3,232.60	1/4	2,903.31	1/4	2,574.00	1/4	2,244.47
1/2		1/2	4,449.80	1/2	4,240.21	1/2	4,018.29	1/2	3,790.92	1/2	3,555.04	1/2	3,225.74	1/2	2,896.45	1/2	2,567.13	1/2	2,237.61
3/4		3/4	4,445.56	3/4	4,235.71	3/4	4,013.56	3/4	3,786.18	3/4	3,548.18	3/4	3,218.88	3/4	2,889.58	3/4	2,560.27	3/4	2,230.74

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" HERMETIC CLOSED GAUGING VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 41'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "CTCO 250"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08 3/4"

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	2,223.88	0	1,894.46	0	1,564.95	0	1,235.43	0	906.12	0	576.87	0	247.39	0		0		0	
1/4	2,217.01	1/4	1,887.60	1/4	1,558.08	1/4	1,228.56	1/4	899.27	1/4	570.00	1/4	240.52	1/4	1/4	1/4		1/4	1/4
1/2	2,210.15	1/2	1,880.73	1/2	1,551.22	1/2	1,221.70	1/2	892.41	1/2	563.14	1/2	233.66	1/2	1/2	1/2		1/2	1/2
3/4	2,203.28	3/4	1,873.87	3/4	1,544.35	3/4	1,214.83	3/4	885.56	3/4	556.27	3/4	226.79	3/4	3/4	3/4		3/4	3/4
1	2,196.42	1	1,867.01	1	1,537.49	1	1,207.97	1	878.71	1	549.41	1	219.93	1	1	1		1	1
1/4	2,189.55	1/4	1,860.14	1/4	1,530.62	1/4	1,201.10	1/4	871.86	1/4	542.54	1/4	213.06	1/4	1/4	1/4		1/4	1/4
1/2	2,182.69	1/2	1,853.28	1/2	1,523.76	1/2	1,194.24	1/2	865.00	1/2	535.68	1/2	206.20	1/2	1/2	1/2		1/2	1/2
3/4	2,175.82	3/4	1,846.41	3/4	1,516.89	3/4	1,187.37	3/4	858.15	3/4	528.81	3/4	199.34	3/4	3/4	3/4		3/4	3/4
2	2,168.95	2	1,839.55	2	1,510.03	2	1,180.51	2	851.30	2	521.95	2	192.47	2	2	2		2	2
1/4	2,162.09	1/4	1,832.68	1/4	1,503.16	1/4	1,173.64	1/4	844.44	1/4	515.09	1/4	185.61	1/4	1/4	1/4		1/4	1/4
1/2	2,155.22	1/2	1,825.82	1/2	1,496.30	1/2	1,166.78	1/2	837.59	1/2	508.22	1/2	178.74	1/2	1/2	1/2		1/2	1/2
3/4	2,148.36	3/4	1,818.95	3/4	1,489.43	3/4	1,159.91	3/4	830.74	3/4	501.36	3/4	171.88	3/4	3/4	3/4		3/4	3/4
3	2,141.49	3	1,812.09	3	1,482.57	3	1,153.05	3	823.88	3	494.49	3	165.01	3	3	3		3	3
1/4	2,134.63	1/4	1,805.22	1/4	1,475.70	1/4	1,146.18	1/4	817.03	1/4	487.63	1/4	158.15	1/4	1/4	1/4		1/4	1/4
1/2	2,127.76	1/2	1,798.36	1/2	1,468.84	1/2	1,139.32	1/2	810.18	1/2	480.76	1/2	151.28	1/2	1/2	1/2		1/2	1/2
3/4	2,120.90	3/4	1,791.49	3/4	1,461.97	3/4	1,132.45	3/4	803.32	3/4	473.90	3/4	144.42	3/4	3/4	3/4		3/4	3/4
4	2,114.03	4	1,784.63	4	1,455.11	4	1,125.59	4	796.47	4	467.03	4	137.56	4	4	4		4	4
1/4	2,107.17	1/4	1,777.76	1/4	1,448.24	1/4	1,118.72	1/4	789.62	1/4	460.17	1/4	130.70	1/4	1/4	1/4		1/4	1/4
1/2	2,100.31	1/2	1,770.90	1/2	1,441.38	1/2	1,111.86	1/2	782.76	1/2	453.30	1/2	123.83	1/2	1/2	1/2		1/2	1/2
3/4	2,093.44	3/4	1,764.03	3/4	1,434.51	3/4	1,104.99	3/4	775.91	3/4	446.44	3/4	116.97	3/4	3/4	3/4		3/4	3/4
5	2,086.58	5	1,757.17	5	1,427.65	5	1,098.13	5	769.06	5	439.57	5	110.13	5	5	5		5	5
1/4	2,079.72	1/4	1,750.30	1/4	1,420.78	1/4	1,091.26	1/4	762.20	1/4	432.71	1/4	103.28	1/4	1/4	1/4		1/4	1/4
1/2	2,072.86	1/2	1,743.44	1/2	1,413.92	1/2	1,084.40	1/2	755.34	1/2	425.84	1/2	96.43	1/2	1/2	1/2		1/2	1/2
3/4	2,066.00	3/4	1,736.57	3/4	1,407.05	3/4	1,077.53	3/4	748.49	3/4	418.98	3/4	89.58	3/4	3/4	3/4		3/4	3/4
6	2,059.14	6	1,729.71	6	1,400.19	6	1,070.67	6	741.62	6	412.11	6	82.92	6	6	6		6	6
1/4	2,052.27	1/4	1,722.84	1/4	1,393.32	1/4	1,063.80	1/4	734.76	1/4	405.25	1/4	76.25	1/4	1/4	1/4		1/4	1/4
1/2	2,045.41	1/2	1,715.98	1/2	1,386.46	1/2	1,056.94	1/2	727.89	1/2	398.39	1/2	69.58	1/2	1/2	1/2		1/2	1/2
3/4	2,038.55	3/4	1,709.11	3/4	1,379.59	3/4	1,050.07	3/4	721.03	3/4	391.52	3/4	62.92	3/4	3/4	3/4		3/4	3/4
7	2,031.69	7	1,702.25	7	1,372.73	7	1,043.21	7	714.16	7	384.66	7	57.09	7	7	7		7	7
1/4	2,024.83	1/4	1,695.38	1/4	1,365.86	1/4	1,036.35	1/4	707.30	1/4	377.79	1/4	51.25	1/4	1/4	1/4		1/4	1/4
1/2	2,017.97	1/2	1,688.52	1/2	1,359.00	1/2	1,029.49	1/2	700.43	1/2	370.93	1/2	45.42	1/2	1/2	1/2		1/2	1/2
3/4	2,011.11	3/4	1,681.65	3/4	1,352.13	3/4	1,022.62	3/4	693.57	3/4	364.07	3/4	39.59	3/4	3/4	3/4		3/4	3/4
8	2,004.25	8	1,674.79	8	1,345.27	8	1,015.77	8	686.70	8	357.20	8	35.12	8	8	8		8	8
1/4	1,997.38	1/4	1,667.92	1/4	1,338.40	1/4	1,008.92	1/4	679.84	1/4	350.34	1/4	30.66	1/4	1/4	1/4		1/4	1/4
1/2	1,990.52	1/2	1,661.06	1/2	1,331.54	1/2	1,002.06	1/2	672.97	1/2	343.48	1/2	26.20	1/2	1/2	1/2		1/2	1/2
3/4	1,983.66	3/4	1,654.19	3/4	1,324.67	3/4	995.21	3/4	666.11	3/4	336.62	3/4	21.74	3/4	3/4	3/4		3/4	3/4
9	1,976.80	9	1,647.33	9	1,317.81	9	988.36	9	659.24	9	329.76	9		9	9	9		9	9
1/4	1,969.94	1/4	1,640.46	1/4	1,310.94	1/4	981.50	1/4	652.38	1/4	322.90	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,963.08	1/2	1,633.60	1/2	1,304.08	1/2	974.65	1/2	645.51	1/2	316.03	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,956.22	3/4	1,626.73	3/4	1,297.21	3/4	967.80	3/4	638.65	3/4	309.17	3/4		3/4	3/4	3/4		3/4	3/4
10	1,949.35	10	1,619.87	10	1,290.35	10	960.95	10	631.79	10	302.31	10		10	10	10		10	10
1/4	1,942.49	1/4	1,613.00	1/4	1,283.48	1/4	954.09	1/4	624.92	1/4	295.44	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,935.63	1/2	1,606.14	1/2	1,276.62	1/2	947.24	1/2	618.06	1/2	288.58	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,928.77	3/4	1,599.27	3/4	1,269.75	3/4	940.39	3/4	611.19	3/4	281.71	3/4		3/4	3/4	3/4		3/4	3/4
11	1,921.91	11	1,592.41	11	1,262.89	11	933.53	11	604.33	11	274.85	11		11	11	11		11	11
1/4	1,915.05	1/4	1,585.54	1/4	1,256.02	1/4	926.68	1/4	597.46	1/4	267.98	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,908.19	1/2	1,578.68	1/2	1,249.16	1/2	919.83	1/2	590.60	1/2	261.12	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,901.33	3/4	1,571.81	3/4	1,242.29	3/4	912.97	3/4	583.73	3/4	254.25	3/4		3/4	3/4	3/4		3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/14/2013 SW
CALCULATED: 03/17/2013 CL
PRINTED: 03/17/2013 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2013

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



BARGE "CTCO 250"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0	4,602.72	0	4,407.93	0	4,197.27	0	3,974.49	0	3,747.11	0	3,502.74	0	3,174.13	0	2,846.45	0	2,517.86		
1/4	1/4	4,599.92	1/4	4,403.68	1/4	4,192.75	1/4	3,969.75	1/4	3,742.37	1/4	3,495.88	1/4	3,167.29	1/4	2,839.60	1/4	2,511.01			
1/2	1/2	4,596.44	1/2	4,399.40	1/2	4,188.21	1/2	3,965.02	1/2	3,737.64	1/2	3,489.03	1/2	3,160.44	1/2	2,832.76	1/2	2,504.16			
3/4	3/4	4,592.96	3/4	4,395.12	3/4	4,183.66	3/4	3,960.28	3/4	3,732.90	3/4	3,482.17	3/4	3,153.60	3/4	2,825.91	3/4	2,497.31			
1	1	4,589.49	1	4,390.85	1	4,179.12	1	3,955.54	1	3,728.16	1	3,475.31	1	3,146.75	1	2,819.07	1	2,490.46			
1/4	1/4	4,586.01	1/4	4,386.57	1/4	4,174.58	1/4	3,950.80	1/4	3,723.42	1/4	3,468.46	1/4	3,139.91	1/4	2,812.23	1/4	2,483.61			
1/2	1/2	4,581.99	1/2	4,382.28	1/2	4,170.02	1/2	3,946.07	1/2	3,718.69	1/2	3,461.61	1/2	3,133.07	1/2	2,805.38	1/2	2,476.76			
3/4	3/4	4,577.98	3/4	4,377.98	3/4	4,165.46	3/4	3,941.33	3/4	3,713.95	3/4	3,454.77	3/4	3,126.23	3/4	2,798.54	3/4	2,469.91			
2	2	4,573.96	2	4,373.69	2	4,160.89	2	3,936.59	2	3,709.21	2	3,447.92	2	3,119.40	2	2,791.69	2	2,463.06			
1/4	1/4	4,569.95	1/4	4,369.39	1/4	4,156.33	1/4	3,931.86	1/4	3,704.48	1/4	3,441.08	1/4	3,112.56	1/4	2,784.85	1/4	2,456.22			
1/2	1/2	4,565.92	1/2	4,365.08	1/2	4,151.75	1/2	3,927.12	1/2	3,699.74	1/2	3,434.23	1/2	3,105.75	1/2	2,778.00	1/2	2,449.37			
3/4	3/4	4,561.88	3/4	4,360.76	3/4	4,147.17	3/4	3,922.38	3/4	3,695.00	3/4	3,427.39	3/4	3,098.95	3/4	2,771.16	3/4	2,442.52			
3	3	4,557.85	3	4,356.45	3	4,142.59	3	3,917.64	3	3,690.26	3	3,420.54	3	3,092.14	3	2,764.31	3	2,435.67			
1/4	1/4	4,553.82	1/4	4,352.14	1/4	4,138.01	1/4	3,912.91	1/4	3,685.53	1/4	3,413.70	1/4	3,085.33	1/4	2,757.47	1/4	2,428.82			
1/2	1/2	4,549.77	1/2	4,347.80	1/2	4,133.41	1/2	3,908.17	1/2	3,680.79	1/2	3,406.85	1/2	3,078.52	1/2	2,750.62	1/2	2,421.97			
3/4	3/4	4,545.72	3/4	4,343.47	3/4	4,128.81	3/4	3,903.43	3/4	3,676.05	3/4	3,400.01	3/4	3,071.71	3/4	2,743.78	3/4	2,415.12			
4	4	4,541.67	4	4,339.14	4	4,124.21	4	3,898.70	4	3,671.32	4	3,393.16	4	3,064.90	4	2,736.93	4	2,408.27			
1/4	1/4	4,537.62	1/4	4,334.80	1/4	4,119.61	1/4	3,893.96	1/4	3,666.58	1/4	3,386.32	1/4	3,058.09	1/4	2,730.09	1/4	2,401.42			
1/2	1/2	4,533.53	1/2	4,330.45	1/2	4,114.99	1/2	3,889.22	1/2	3,661.84	1/2	3,379.47	1/2	3,051.29	1/2	2,723.24	1/2	2,394.57			
3/4	3/4	4,529.45	3/4	4,326.10	3/4	4,110.37	3/4	3,884.49	3/4	3,657.10	3/4	3,372.63	3/4	3,044.48	3/4	2,716.40	3/4	2,387.72			
5	5	4,525.37	5	4,321.75	5	4,105.75	5	3,879.75	5	3,652.37	5	3,365.79	5	3,037.67	5	2,709.55	5	2,380.87			
1/4	1/4	4,521.29	1/4	4,317.40	1/4	4,101.13	1/4	3,875.01	1/4	3,647.63	1/4	3,358.94	1/4	3,030.86	1/4	2,702.71	1/4	2,374.02			
1/2	1/2	4,517.14	1/2	4,313.02	1/2	4,096.50	1/2	3,870.27	1/2	3,642.89	1/2	3,352.10	1/2	3,024.05	1/2	2,695.86	1/2	2,367.17			
3/4	3/4	4,513.00	3/4	4,308.65	3/4	4,091.86	3/4	3,865.54	3/4	3,638.16	3/4	3,345.25	3/4	3,017.24	3/4	2,689.02	3/4	2,360.32			
6	6	4,508.85	6	4,304.28	6	4,087.22	6	3,860.80	6	3,633.42	6	3,338.41	6	3,010.43	6	2,682.17	6	2,353.47			
1/4	1/4	4,504.71	1/4	4,299.91	1/4	4,082.58	1/4	3,856.06	1/4	3,628.68	1/4	3,331.56	1/4	3,003.63	1/4	2,675.33	1/4	2,346.63			
1/2	1/2	4,500.55	1/2	4,295.52	1/2	4,077.93	1/2	3,851.33	1/2	3,623.94	1/2	3,324.72	1/2	2,996.82	1/2	2,668.48	1/2	2,339.78			
3/4	3/4	4,496.39	3/4	4,291.13	3/4	4,073.27	3/4	3,846.59	3/4	3,619.21	3/4	3,317.87	3/4	2,990.01	3/4	2,661.64	3/4	2,332.93			
7	7	4,492.22	7	4,286.74	7	4,068.61	7	3,841.85	7	3,614.47	7	3,311.03	7	2,983.20	7	2,654.79	7	2,326.08			
1/4	1/4	4,488.06	1/4	4,282.35	1/4	4,063.96	1/4	3,837.11	1/4	3,609.73	1/4	3,304.18	1/4	2,976.39	1/4	2,647.95	1/4	2,319.23			
1/2	1/2	4,483.88	1/2	4,277.93	1/2	4,059.28	1/2	3,832.38	1/2	3,605.00	1/2	3,297.34	1/2	2,969.57	1/2	2,641.11	1/2	2,312.38			
3/4	3/4	4,479.70	3/4	4,273.52	3/4	4,054.61	3/4	3,827.64	3/4	3,600.26	3/4	3,290.49	3/4	2,962.76	3/4	2,634.26	3/4	2,305.53			
8	8	4,475.52	8	4,269.10	8	4,049.93	8	3,822.90	8	3,595.52	8	3,283.65	8	2,955.94	8	2,627.42	8	2,298.68			
1/4	1/4	4,471.34	1/4	4,264.68	1/4	4,045.26	1/4	3,818.17	1/4	3,590.79	1/4	3,276.80	1/4	2,949.12	1/4	2,620.57	1/4	2,291.83			
1/2	1/2	4,467.14	1/2	4,260.21	1/2	4,040.56	1/2	3,813.43	1/2	3,586.05	1/2	3,269.96	1/2	2,942.28	1/2	2,613.73	1/2	2,284.98			
3/4	3/4	4,462.94	3/4	4,255.74	3/4	4,035.87	3/4	3,808.69	3/4	3,581.31	3/4	3,263.11	3/4	2,935.43	3/4	2,606.88	3/4	2,278.13			
9	9	4,458.74	9	4,251.28	9	4,031.17	9	3,803.95	9	3,576.57	9	3,256.27	9	2,928.59	9	2,600.04	9	2,271.28			
1/4	1/4	4,454.54	1/4	4,246.81	1/4	4,026.48	1/4	3,799.22	1/4	3,571.84	1/4	3,249.42	1/4	2,921.74	1/4	2,593.19	1/4	2,264.43			
1/2	1/2	4,450.32	1/2	4,242.32	1/2	4,021.76	1/2	3,794.48	1/2	3,566.57	1/2	3,242.58	1/2	2,914.90	1/2	2,586.35	1/2	2,257.58			
3/4	3/4	4,446.10	3/4	4,237.84	3/4	4,017.05	3/4	3,789.74	3/4	3,561.30	3/4	3,235.73	3/4	2,908.05	3/4	2,579.50	3/4	2,250.73			
10	10	4,441.88	10	4,233.35	10	4,012.34	10	3,785.01	10	3,556.03	10	3,228.89	10	2,901.21	10	2,572.65	10	2,243.88			
1/4	1/4	4,437.66	1/4	4,228.87	1/4	4,007.62	1/4	3,780.27	1/4	3,550.77	1/4	3,222.04	1/4	2,894.36	1/4	2,565.81	1/4	2,237.03			
1/2	1/2	4,433.42	1/2	4,224.36	1/2	4,002.89	1/2	3,775.53	1/2	3,543.90	1/2	3,215.20	1/2	2,887.52	1/2	2,558.96	1/2	2,230.19			
3/4	3/4	4,429.18	3/4	4,219.86	3/4	3,998.16	3/4	3,770.79	3/4	3,537.04	3/4	3,208.35	3/4	2,880.67	3/4	2,552.11	3/4	2,223.34			
11	11	4,424.94	11	4,215.35	11	3,993.43	11	3,766.06	11	3,530.18	11	3,201.51	11	2,873.83	11	2,545.26	11	2,216.49			
1/4	1/4	4,420.71	1/4	4,210.85	1/4	3,988.70	1/4	3,761.32	1/4	3,523.32	1/4	3,194.67	1/4	2,866.98	1/4	2,538.41	1/4	2,209.64			
1/2	1/2	4,416.45	1/2	4,206.32	1/2	3,983.96	1/2	3,756.58	1/2	3,516.46	1/2	3,187.82	1/2	2,860.14	1/2	2,531.56	1/2	2,202.79			
3/4	3/4	4,412.19	3/4	4,201.80	3/4	3,979.23	3/4	3,751.85	3/4	3,509.60	3/4	3,180.98	3/4	2,853.29	3/4	2,524.71	3/4	2,195.94			

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" HERMETIC CLOSED GAUGING VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 41'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "CTCO 250"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08 1/4"

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	2,189.09	0	1,860.45	0	1,531.91	0	1,203.37	0	883.49	0	562.95	0	233.68	0		0		0	
1/4	2,182.24	1/4	1,853.61	1/4	1,525.07	1/4	1,196.53	1/4	876.98	1/4	556.10	1/4	226.81	1/4	1/4	1/4		1/4	1/4
1/2	2,175.39	1/2	1,846.76	1/2	1,518.22	1/2	1,189.68	1/2	870.47	1/2	549.25	1/2	219.95	1/2	1/2	1/2		1/2	1/2
3/4	2,168.54	3/4	1,839.92	3/4	1,511.38	3/4	1,182.84	3/4	863.96	3/4	542.39	3/4	213.08	3/4	3/4	3/4		3/4	3/4
1	2,161.69	1	1,833.07	1	1,504.53	1	1,175.99	1	857.45	1	535.54	1	206.22	1	1	1		1	1
1/4	2,154.84	1/4	1,826.23	1/4	1,497.69	1/4	1,169.15	1/4	850.94	1/4	528.69	1/4	199.35	1/4	1/4	1/4		1/4	1/4
1/2	2,147.99	1/2	1,819.38	1/2	1,490.84	1/2	1,162.31	1/2	844.43	1/2	521.83	1/2	192.49	1/2	1/2	1/2		1/2	1/2
3/4	2,141.14	3/4	1,812.54	3/4	1,484.00	3/4	1,155.47	3/4	837.92	3/4	514.98	3/4	185.62	3/4	3/4	3/4		3/4	3/4
2	2,134.29	2	1,805.70	2	1,477.15	2	1,148.62	2	831.41	2	508.13	2	178.76	2	2	2		2	2
1/4	2,127.44	1/4	1,798.85	1/4	1,470.31	1/4	1,141.78	1/4	824.90	1/4	501.27	1/4	171.89	1/4	1/4	1/4		1/4	1/4
1/2	2,120.59	1/2	1,792.01	1/2	1,463.47	1/2	1,134.95	1/2	818.39	1/2	494.42	1/2	165.03	1/2	1/2	1/2		1/2	1/2
3/4	2,113.75	3/4	1,785.16	3/4	1,456.62	3/4	1,128.12	3/4	811.88	3/4	487.57	3/4	158.16	3/4	3/4	3/4		3/4	3/4
3	2,106.90	3	1,778.32	3	1,449.78	3	1,121.29	3	805.37	3	480.71	3	151.30	3	3	3		3	3
1/4	2,100.05	1/4	1,771.47	1/4	1,442.93	1/4	1,114.46	1/4	798.86	1/4	473.86	1/4	144.43	1/4	1/4	1/4		1/4	1/4
1/2	2,093.20	1/2	1,764.63	1/2	1,436.09	1/2	1,107.63	1/2	792.35	1/2	467.01	1/2	137.57	1/2	1/2	1/2		1/2	1/2
3/4	2,086.35	3/4	1,757.78	3/4	1,429.24	3/4	1,100.80	3/4	785.84	3/4	460.15	3/4	130.71	3/4	3/4	3/4		3/4	3/4
4	2,079.50	4	1,750.94	4	1,422.40	4	1,093.97	4	779.33	4	453.30	4	123.85	4	4	4		4	4
1/4	2,072.65	1/4	1,744.09	1/4	1,415.55	1/4	1,087.13	1/4	772.82	1/4	446.44	1/4	116.99	1/4	1/4	1/4		1/4	1/4
1/2	2,065.80	1/2	1,737.25	1/2	1,408.71	1/2	1,080.31	1/2	766.31	1/2	439.58	1/2	110.14	1/2	1/2	1/2		1/2	1/2
3/4	2,058.95	3/4	1,730.40	3/4	1,401.86	3/4	1,073.49	3/4	759.80	3/4	432.72	3/4	103.29	3/4	3/4	3/4		3/4	3/4
5	2,052.10	5	1,723.56	5	1,395.02	5	1,066.67	5	753.29	5	425.86	5	96.44	5	5	5		5	5
1/4	2,045.26	1/4	1,716.72	1/4	1,388.17	1/4	1,059.85	1/4	746.78	1/4	419.00	1/4	89.59	1/4	1/4	1/4		1/4	1/4
1/2	2,038.41	1/2	1,709.87	1/2	1,381.33	1/2	1,053.14	1/2	740.19	1/2	412.14	1/2	82.93	1/2	1/2	1/2		1/2	1/2
3/4	2,031.57	3/4	1,703.03	3/4	1,374.49	3/4	1,046.42	3/4	733.61	3/4	405.27	3/4	76.26	3/4	3/4	3/4		3/4	3/4
6	2,024.72	6	1,696.18	6	1,367.64	6	1,039.71	6	727.03	6	398.41	6	69.60	6	6	6		6	6
1/4	2,017.88	1/4	1,689.34	1/4	1,360.80	1/4	1,033.00	1/4	720.44	1/4	391.54	1/4	62.93	1/4	1/4	1/4		1/4	1/4
1/2	2,011.03	1/2	1,682.49	1/2	1,353.95	1/2	1,026.50	1/2	713.62	1/2	384.68	1/2	57.10	1/2	1/2	1/2		1/2	1/2
3/4	2,004.19	3/4	1,675.65	3/4	1,347.11	3/4	1,020.00	3/4	706.80	3/4	377.81	3/4	51.26	3/4	3/4	3/4		3/4	3/4
7	1,997.34	7	1,668.80	7	1,340.26	7	1,013.51	7	699.99	7	370.95	7	45.43	7	7	7		7	7
1/4	1,990.50	1/4	1,661.96	1/4	1,333.42	1/4	1,007.01	1/4	693.17	1/4	364.08	1/4	39.60	1/4	1/4	1/4		1/4	1/4
1/2	1,983.65	1/2	1,655.11	1/2	1,326.57	1/2	1,000.52	1/2	686.31	1/2	357.22	1/2	35.13	1/2	1/2	1/2		1/2	1/2
3/4	1,976.81	3/4	1,648.27	3/4	1,319.73	3/4	994.02	3/4	679.46	3/4	350.36	3/4	30.67	3/4	3/4	3/4		3/4	3/4
8	1,969.97	8	1,641.42	8	1,312.88	8	987.52	8	672.61	8	343.50	8	26.21	8	8	8		8	8
1/4	1,963.12	1/4	1,634.58	1/4	1,306.04	1/4	981.03	1/4	665.75	1/4	336.64	1/4	21.75	1/4	1/4	1/4		1/4	1/4
1/2	1,956.28	1/2	1,627.74	1/2	1,299.19	1/2	974.53	1/2	658.90	1/2	329.78	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,949.43	3/4	1,620.89	3/4	1,292.35	3/4	968.04	3/4	652.05	3/4	322.92	3/4		3/4	3/4	3/4		3/4	3/4
9	1,942.59	9	1,614.05	9	1,285.51	9	961.54	9	645.19	9	316.05	9		9	9	9		9	9
1/4	1,935.74	1/4	1,607.20	1/4	1,278.66	1/4	955.05	1/4	638.34	1/4	309.19	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,928.90	1/2	1,600.36	1/2	1,271.82	1/2	948.55	1/2	631.49	1/2	302.33	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,922.05	3/4	1,593.51	3/4	1,264.97	3/4	942.05	3/4	624.63	3/4	295.46	3/4		3/4	3/4	3/4		3/4	3/4
10	1,915.21	10	1,586.67	10	1,258.13	10	935.55	10	617.78	10	288.60	10		10	10	10		10	10
1/4	1,908.36	1/4	1,579.82	1/4	1,251.28	1/4	929.06	1/4	610.93	1/4	281.73	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,901.52	1/2	1,572.98	1/2	1,244.44	1/2	922.55	1/2	604.07	1/2	274.87	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,894.68	3/4	1,566.13	3/4	1,237.59	3/4	916.04	3/4	597.22	3/4	268.00	3/4		3/4	3/4	3/4		3/4	3/4
11	1,887.83	11	1,559.29	11	1,230.75	11	909.53	11	590.37	11	261.14	11		11	11	11		11	11
1/4	1,880.99	1/4	1,552.45	1/4	1,223.90	1/4	903.02	1/4	583.51	1/4	254.27	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,874.14	1/2	1,545.60	1/2	1,217.06	1/2	896.51	1/2	576.66	1/2	247.41	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,867.30	3/4	1,538.76	3/4	1,210.22	3/4	890.00	3/4	569.81	3/4	240.54	3/4		3/4	3/4	3/4		3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/14/2013 SW
CALCULATED: 03/17/2013 CL
PRINTED: 03/17/2013 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2013

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