



BARGE "CTCO 251"

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	- 00-1/2	00-1/2	- 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	- 00-1/2	00-1/2	- 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 24, 2013

PRECISION MEASUREMENT
 & ANALYSIS, INC.

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "CTCO 251"

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.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0	0	5,141.61	0	4,855.74	0	4,548.23	0	4,223.58	0	3,891.89	0	3,560.20	0	3,228.51	0	2,896.82	0	2,565.10	0
1/4	1/4	5,136.73	1/4	4,849.51	1/4	4,541.63	1/4	4,216.67	1/4	3,884.98	1/4	3,553.29	1/4	3,221.60	1/4	2,889.91	1/4	2,558.19	1/4
1/2	1/2	5,131.85	1/2	4,843.28	1/2	4,535.03	1/2	4,209.76	1/2	3,878.07	1/2	3,546.38	1/2	3,214.69	1/2	2,883.00	1/2	2,551.27	1/2
3/4	3/4	5,126.49	3/4	4,837.03	3/4	4,528.40	3/4	4,202.85	3/4	3,871.16	3/4	3,539.47	3/4	3,207.78	3/4	2,876.09	3/4	2,544.36	3/4
1	1	5,121.14	1	4,830.77	1	4,521.78	1	4,195.94	1	3,864.25	1	3,532.56	1	3,200.87	1	2,869.18	1	2,537.44	1
1/4	1/4	5,115.79	1/4	4,824.52	1/4	4,515.15	1/4	4,189.03	1/4	3,857.34	1/4	3,525.65	1/4	3,193.96	1/4	2,862.27	1/4	2,530.53	1/4
1/2	1/2	5,110.44	1/2	4,818.26	1/2	4,508.52	1/2	4,182.12	1/2	3,850.43	1/2	3,518.74	1/2	3,187.05	1/2	2,855.36	1/2	2,523.61	1/2
3/4	3/4	5,104.54	3/4	4,811.98	3/4	4,501.87	3/4	4,175.21	3/4	3,843.52	3/4	3,511.83	3/4	3,180.14	3/4	2,848.45	3/4	2,516.70	3/4
2	2	5,098.64	2	4,805.69	2	4,495.21	2	4,168.30	2	3,836.61	2	3,504.92	2	3,173.23	2	2,841.54	2	2,509.78	2
1/4	1/4	5,092.74	1/4	4,799.41	1/4	4,488.56	1/4	4,161.39	1/4	3,829.70	1/4	3,498.01	1/4	3,166.32	1/4	2,834.63	1/4	2,502.87	1/4
1/2	1/2	5,086.84	1/2	4,793.12	1/2	4,481.91	1/2	4,154.48	1/2	3,822.79	1/2	3,491.10	1/2	3,159.41	1/2	2,827.72	1/2	2,495.96	1/2
3/4	3/4	5,080.92	3/4	4,786.81	3/4	4,475.22	3/4	4,147.57	3/4	3,815.88	3/4	3,484.19	3/4	3,152.50	3/4	2,820.81	3/4	2,489.04	3/4
3	3	5,074.99	3	4,780.50	3	4,468.54	3	4,140.66	3	3,808.97	3	3,477.28	3	3,145.59	3	2,813.90	3	2,482.13	3
1/4	1/4	5,069.07	1/4	4,774.19	1/4	4,461.86	1/4	4,133.75	1/4	3,802.06	1/4	3,470.37	1/4	3,138.68	1/4	2,806.99	1/4	2,475.21	1/4
1/2	1/2	5,063.14	1/2	4,767.88	1/2	4,455.18	1/2	4,126.84	1/2	3,795.15	1/2	3,463.46	1/2	3,131.77	1/2	2,800.08	1/2	2,468.30	1/2
3/4	3/4	5,057.19	3/4	4,761.54	3/4	4,448.47	3/4	4,119.92	3/4	3,788.24	3/4	3,456.55	3/4	3,124.86	3/4	2,793.17	3/4	2,461.38	3/4
4	4	5,051.24	4	4,755.20	4	4,441.76	4	4,113.01	4	3,781.33	4	3,449.64	4	3,117.95	4	2,786.26	4	2,454.47	4
1/4	1/4	5,045.28	1/4	4,748.86	1/4	4,435.05	1/4	4,106.10	1/4	3,774.41	1/4	3,442.73	1/4	3,111.04	1/4	2,779.35	1/4	2,447.55	1/4
1/2	1/2	5,039.33	1/2	4,742.52	1/2	4,428.34	1/2	4,099.19	1/2	3,767.50	1/2	3,435.82	1/2	3,104.13	1/2	2,772.44	1/2	2,440.64	1/2
3/4	3/4	5,033.34	3/4	4,736.16	3/4	4,421.60	3/4	4,092.28	3/4	3,760.59	3/4	3,428.90	3/4	3,097.22	3/4	2,765.53	3/4	2,433.72	3/4
5	5	5,027.34	5	4,729.79	5	4,414.86	5	4,085.37	5	3,753.68	5	3,421.99	5	3,090.31	5	2,758.62	5	2,426.81	5
1/4	1/4	5,021.35	1/4	4,723.42	1/4	4,408.12	1/4	4,078.46	1/4	3,746.77	1/4	3,415.08	1/4	3,083.39	1/4	2,751.71	1/4	2,419.89	1/4
1/2	1/2	5,015.36	1/2	4,717.06	1/2	4,401.39	1/2	4,071.55	1/2	3,739.86	1/2	3,408.17	1/2	3,076.48	1/2	2,744.80	1/2	2,412.98	1/2
3/4	3/4	5,009.29	3/4	4,710.66	3/4	4,394.62	3/4	4,064.64	3/4	3,732.95	3/4	3,401.26	3/4	3,069.57	3/4	2,737.88	3/4	2,406.06	3/4
6	6	5,003.23	6	4,704.27	6	4,387.86	6	4,057.73	6	3,726.04	6	3,394.35	6	3,062.66	6	2,730.97	6	2,399.15	6
1/4	1/4	4,997.17	1/4	4,697.87	1/4	4,381.09	1/4	4,050.82	1/4	3,719.13	1/4	3,387.44	1/4	3,055.75	1/4	2,724.06	1/4	2,392.23	1/4
1/2	1/2	4,991.11	1/2	4,691.48	1/2	4,374.33	1/2	4,043.91	1/2	3,712.22	1/2	3,380.53	1/2	3,048.84	1/2	2,717.15	1/2	2,385.32	1/2
3/4	3/4	4,985.02	3/4	4,685.06	3/4	4,367.53	3/4	4,037.00	3/4	3,705.31	3/4	3,373.62	3/4	3,041.93	3/4	2,710.24	3/4	2,378.40	3/4
7	7	4,978.93	7	4,678.64	7	4,360.74	7	4,030.09	7	3,698.40	7	3,366.71	7	3,035.02	7	2,703.33	7	2,371.49	7
1/4	1/4	4,972.84	1/4	4,672.22	1/4	4,353.95	1/4	4,023.18	1/4	3,691.49	1/4	3,359.80	1/4	3,028.11	1/4	2,696.42	1/4	2,364.57	1/4
1/2	1/2	4,966.75	1/2	4,665.79	1/2	4,347.16	1/2	4,016.27	1/2	3,684.58	1/2	3,352.89	1/2	3,021.20	1/2	2,689.51	1/2	2,357.66	1/2
3/4	3/4	4,960.63	3/4	4,659.33	3/4	4,340.34	3/4	4,009.36	3/4	3,677.67	3/4	3,345.98	3/4	3,014.29	3/4	2,682.60	3/4	2,350.74	3/4
8	8	4,954.51	8	4,652.88	8	4,333.52	8	4,002.45	8	3,670.76	8	3,339.07	8	3,007.38	8	2,675.69	8	2,343.83	8
1/4	1/4	4,948.39	1/4	4,646.42	1/4	4,326.70	1/4	3,995.54	1/4	3,663.85	1/4	3,332.16	1/4	3,000.47	1/4	2,668.78	1/4	2,336.91	1/4
1/2	1/2	4,942.27	1/2	4,639.96	1/2	4,319.88	1/2	3,988.63	1/2	3,656.94	1/2	3,325.25	1/2	2,993.56	1/2	2,661.87	1/2	2,330.00	1/2
3/4	3/4	4,936.13	3/4	4,633.44	3/4	4,313.03	3/4	3,981.72	3/4	3,650.03	3/4	3,318.34	3/4	2,986.65	3/4	2,654.96	3/4	2,323.09	3/4
9	9	4,929.98	9	4,626.92	9	4,306.18	9	3,974.81	9	3,643.12	9	3,311.43	9	2,979.74	9	2,648.05	9	2,316.17	9
1/4	1/4	4,923.84	1/4	4,620.41	1/4	4,299.33	1/4	3,967.90	1/4	3,636.21	1/4	3,304.52	1/4	2,972.83	1/4	2,641.14	1/4	2,309.26	1/4
1/2	1/2	4,917.69	1/2	4,613.89	1/2	4,292.48	1/2	3,960.99	1/2	3,629.30	1/2	3,297.61	1/2	2,965.92	1/2	2,634.23	1/2	2,302.34	1/2
3/4	3/4	4,911.52	3/4	4,607.35	3/4	4,285.61	3/4	3,954.08	3/4	3,622.39	3/4	3,290.70	3/4	2,959.01	3/4	2,627.32	3/4	2,295.43	3/4
10	10	4,905.35	10	4,600.80	10	4,278.73	10	3,947.17	10	3,615.48	10	3,283.79	10	2,952.10	10	2,620.41	10	2,288.51	10
1/4	1/4	4,899.17	1/4	4,594.26	1/4	4,271.86	1/4	3,940.26	1/4	3,608.57	1/4	3,276.88	1/4	2,945.19	1/4	2,613.50	1/4	2,281.60	1/4
1/2	1/2	4,893.00	1/2	4,587.72	1/2	4,264.98	1/2	3,933.35	1/2	3,601.66	1/2	3,269.97	1/2	2,938.28	1/2	2,606.59	1/2	2,274.68	1/2
3/4	3/4	4,886.80	3/4	4,581.14	3/4	4,258.09	3/4	3,926.44	3/4	3,594.75	3/4	3,263.06	3/4	2,931.37	3/4	2,599.68	3/4	2,267.77	3/4
11	11	4,880.60	11	4,574.57	11	4,251.19	11	3,919.53	11	3,587.84	11	3,256.15	11	2,924.46	11	2,592.76	11	2,260.85	11
1/4	1/4	4,874.40	1/4	4,568.00	1/4	4,244.29	1/4	3,912.62	1/4	3,580.93	1/4	3,249.24	1/4	2,917.55	1/4	2,585.85	1/4	2,253.94	1/4
1/2	1/2	4,868.20	1/2	4,561.43	1/2	4,237.40	1/2	3,905.71	1/2	3,574.02	1/2	3,242.33	1/2	2,910.64	1/2	2,578.93	1/2	2,247.02	1/2
3/4	3/4	4,861.97	3/4	4,554.83	3/4	4,230.49	3/4	3,898.80	3/4	3,567.11	3/4	3,235.42	3/4	2,903.73	3/4	2,572.02	3/4	2,240.11	3/4

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'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

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BARGE "CTCO 251"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08 1/2"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
0	2,233.19	0	1,901.28	0	1,569.37	0	1,237.46	0	905.78	0	574.13	0	242.26	0		0		0	
1/4	2,226.28	1/4	1,894.37	1/4	1,562.46	1/4	1,230.55	1/4	898.88	1/4	567.22	1/4	235.35	1/4	1/4		1/4		1/4
1/2	2,219.36	1/2	1,887.45	1/2	1,555.54	1/2	1,223.63	1/2	891.97	1/2	560.30	1/2	228.43	1/2	1/2		1/2		1/2
3/4	2,212.45	3/4	1,880.54	3/4	1,548.63	3/4	1,216.72	3/4	885.07	3/4	553.39	3/4	221.52	3/4	3/4		3/4		3/4
1	2,205.53	1	1,873.62	1	1,541.71	1	1,209.80	1	878.17	1	546.47	1	214.60	1	1		1		1
1/4	2,198.62	1/4	1,866.71	1/4	1,534.80	1/4	1,202.89	1/4	871.27	1/4	539.56	1/4	207.69	1/4	1/4		1/4		1/4
1/2	2,191.70	1/2	1,859.79	1/2	1,527.88	1/2	1,195.97	1/2	864.36	1/2	532.64	1/2	200.78	1/2	1/2		1/2		1/2
3/4	2,184.79	3/4	1,852.88	3/4	1,520.97	3/4	1,189.06	3/4	857.46	3/4	525.73	3/4	193.86	3/4	3/4		3/4		3/4
2	2,177.87	2	1,845.96	2	1,514.05	2	1,182.14	2	850.56	2	518.81	2	186.95	2	2		2		2
1/4	2,170.96	1/4	1,839.05	1/4	1,507.14	1/4	1,175.23	1/4	843.65	1/4	511.90	1/4	180.03	1/4	1/4		1/4		1/4
1/2	2,164.04	1/2	1,832.13	1/2	1,500.22	1/2	1,168.31	1/2	836.75	1/2	504.98	1/2	173.12	1/2	1/2		1/2		1/2
3/4	2,157.13	3/4	1,825.22	3/4	1,493.31	3/4	1,161.40	3/4	829.85	3/4	498.07	3/4	166.20	3/4	3/4		3/4		3/4
3	2,150.22	3	1,818.30	3	1,486.39	3	1,154.48	3	822.95	3	491.16	3	159.29	3	3		3		3
1/4	2,143.30	1/4	1,811.39	1/4	1,479.48	1/4	1,147.57	1/4	816.04	1/4	484.24	1/4	152.37	1/4	1/4		1/4		1/4
1/2	2,136.39	1/2	1,804.48	1/2	1,472.56	1/2	1,140.65	1/2	809.14	1/2	477.33	1/2	145.46	1/2	1/2		1/2		1/2
3/4	2,129.47	3/4	1,797.56	3/4	1,465.65	3/4	1,133.74	3/4	802.24	3/4	470.41	3/4	138.55	3/4	3/4		3/4		3/4
4	2,122.56	4	1,790.65	4	1,458.74	4	1,126.82	4	795.33	4	463.50	4	131.64	4	4		4		4
1/4	2,115.64	1/4	1,783.73	1/4	1,451.82	1/4	1,119.91	1/4	788.43	1/4	456.58	1/4	124.73	1/4	1/4		1/4		1/4
1/2	2,108.73	1/2	1,776.82	1/2	1,444.91	1/2	1,113.00	1/2	781.53	1/2	449.67	1/2	117.82	1/2	1/2		1/2		1/2
3/4	2,101.81	3/4	1,769.90	3/4	1,437.99	3/4	1,106.08	3/4	774.62	3/4	442.75	3/4	110.92	3/4	3/4		3/4		3/4
5	2,094.90	5	1,762.99	5	1,431.08	5	1,099.17	5	767.72	5	435.84	5	104.02	5	5		5		5
1/4	2,087.98	1/4	1,756.07	1/4	1,424.16	1/4	1,092.25	1/4	760.81	1/4	428.93	1/4	97.12	1/4	1/4		1/4		1/4
1/2	2,081.07	1/2	1,749.16	1/2	1,417.25	1/2	1,085.34	1/2	753.91	1/2	422.01	1/2	90.23	1/2	1/2		1/2		1/2
3/4	2,074.15	3/4	1,742.24	3/4	1,410.33	3/4	1,078.42	3/4	746.99	3/4	415.10	3/4	83.51	3/4	3/4		3/4		3/4
6	2,067.24	6	1,735.33	6	1,403.42	6	1,071.51	6	740.08	6	408.18	6	76.80	6	6		6		6
1/4	2,060.32	1/4	1,728.41	1/4	1,396.50	1/4	1,064.59	1/4	733.16	1/4	401.27	1/4	70.08	1/4	1/4		1/4		1/4
1/2	2,053.41	1/2	1,721.50	1/2	1,389.59	1/2	1,057.68	1/2	726.25	1/2	394.35	1/2	63.37	1/2	1/2		1/2		1/2
3/4	2,046.49	3/4	1,714.58	3/4	1,382.67	3/4	1,050.76	3/4	719.33	3/4	387.44	3/4	57.49	3/4	3/4		3/4		3/4
7	2,039.58	7	1,707.67	7	1,375.76	7	1,043.85	7	712.42	7	380.53	7	51.62	7	7		7		7
1/4	2,032.66	1/4	1,700.75	1/4	1,368.84	1/4	1,036.94	1/4	705.51	1/4	373.61	1/4	45.74	1/4	1/4		1/4		1/4
1/2	2,025.75	1/2	1,693.84	1/2	1,361.93	1/2	1,030.03	1/2	698.59	1/2	366.70	1/2	39.87	1/2	1/2		1/2		1/2
3/4	2,018.83	3/4	1,686.92	3/4	1,355.01	3/4	1,023.13	3/4	691.68	3/4	359.79	3/4	35.37	3/4	3/4		3/4		3/4
8	2,011.92	8	1,680.01	8	1,348.10	8	1,016.22	8	684.76	8	352.88	8	30.88	8	8		8		8
1/4	2,005.00	1/4	1,673.09	1/4	1,341.18	1/4	1,009.32	1/4	677.85	1/4	345.97	1/4	26.39	1/4	1/4		1/4		1/4
1/2	1,998.09	1/2	1,666.18	1/2	1,334.27	1/2	1,002.42	1/2	670.93	1/2	339.05	1/2	21.89	1/2	1/2		1/2		1/2
3/4	1,991.17	3/4	1,659.26	3/4	1,327.35	3/4	995.52	3/4	664.02	3/4	332.14	3/4		3/4	3/4		3/4		3/4
9	1,984.26	9	1,652.35	9	1,320.44	9	988.61	9	657.10	9	325.23	9		9	9		9		9
1/4	1,977.35	1/4	1,645.43	1/4	1,313.52	1/4	981.71	1/4	650.19	1/4	318.32	1/4		1/4	1/4		1/4		1/4
1/2	1,970.43	1/2	1,638.52	1/2	1,306.61	1/2	974.81	1/2	643.27	1/2	311.41	1/2		1/2	1/2		1/2		1/2
3/4	1,963.52	3/4	1,631.61	3/4	1,299.69	3/4	967.90	3/4	636.36	3/4	304.49	3/4		3/4	3/4		3/4		3/4
10	1,956.60	10	1,624.69	10	1,292.78	10	961.00	10	629.45	10	297.58	10		10	10		10		10
1/4	1,949.69	1/4	1,617.78	1/4	1,285.87	1/4	954.10	1/4	622.53	1/4	290.66	1/4		1/4	1/4		1/4		1/4
1/2	1,942.77	1/2	1,610.86	1/2	1,278.95	1/2	947.20	1/2	615.62	1/2	283.75	1/2		1/2	1/2		1/2		1/2
3/4	1,935.86	3/4	1,603.95	3/4	1,272.04	3/4	940.29	3/4	608.70	3/4	276.83	3/4		3/4	3/4		3/4		3/4
11	1,928.94	11	1,597.03	11	1,265.12	11	933.39	11	601.79	11	269.92	11		11	11		11		11
1/4	1,922.03	1/4	1,590.12	1/4	1,258.21	1/4	926.49	1/4	594.87	1/4	263.01	1/4		1/4	1/4		1/4		1/4
1/2	1,915.11	1/2	1,583.20	1/2	1,251.29	1/2	919.58	1/2	587.96	1/2	256.09	1/2		1/2	1/2		1/2		1/2
3/4	1,908.20	3/4	1,576.29	3/4	1,244.38	3/4	912.68	3/4	581.04	3/4	249.18	3/4		3/4	3/4		3/4		3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/23/2013 CL - SW
CALCULATED: 03/24/2013 CL
PRINTED: 03/24/2013 CL

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 251"

1 STBD 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
					4,860.14		4,553.00		4,228.66		3,896.97		3,565.28		3,233.59		2,901.90		2,570.19		
1/4	1/4	5,139.78	1/4	4,853.91	1/4	4,546.40	1/4	4,221.75	1/4	3,890.06	1/4	3,558.37	1/4	3,226.68	1/4	2,894.99	1/4	2,563.28			
1/2	1/2	5,134.90	1/2	4,847.68	1/2	4,539.80	1/2	4,214.84	1/2	3,883.15	1/2	3,551.46	1/2	3,219.77	1/2	2,888.08	1/2	2,556.36			
3/4	3/4	5,130.02	3/4	4,841.46	3/4	4,533.20	3/4	4,207.93	3/4	3,876.24	3/4	3,544.55	3/4	3,212.86	3/4	2,881.17	3/4	2,549.45			
1	1	5,124.67	1	4,835.20	1	4,526.58	1	4,201.02	1	3,869.33	1	3,537.64	1	3,205.95	1	2,874.26	1	2,542.53			
1/4	1/4	5,119.31	1/4	4,828.94	1/4	4,519.95	1/4	4,194.11	1/4	3,862.42	1/4	3,530.73	1/4	3,199.04	1/4	2,867.35	1/4	2,535.62			
1/2	1/2	5,113.96	1/2	4,822.69	1/2	4,513.32	1/2	4,187.20	1/2	3,855.51	1/2	3,523.82	1/2	3,192.13	1/2	2,860.44	1/2	2,528.70			
3/4	3/4	5,108.61	3/4	4,816.43	3/4	4,506.70	3/4	4,180.29	3/4	3,848.60	3/4	3,516.91	3/4	3,185.22	3/4	2,853.53	3/4	2,521.79			
2	2	5,102.71	2	4,810.15	2	4,500.04	2	4,173.38	2	3,841.69	2	3,510.00	2	3,178.31	2	2,846.62	2	2,514.87			
1/4	1/4	5,096.81	1/4	4,803.86	1/4	4,493.39	1/4	4,166.47	1/4	3,834.78	1/4	3,503.09	1/4	3,171.40	1/4	2,839.71	1/4	2,507.96			
1/2	1/2	5,090.91	1/2	4,797.58	1/2	4,486.73	1/2	4,159.56	1/2	3,827.87	1/2	3,496.18	1/2	3,164.49	1/2	2,832.80	1/2	2,501.04			
3/4	3/4	5,085.01	3/4	4,791.30	3/4	4,480.08	3/4	4,152.65	3/4	3,820.96	3/4	3,489.27	3/4	3,157.58	3/4	2,825.89	3/4	2,494.13			
3	3	5,079.09	3	4,784.99	3	4,473.40	3	4,145.74	3	3,814.05	3	3,482.36	3	3,150.67	3	2,818.98	3	2,487.21			
1/4	1/4	5,073.16	1/4	4,778.67	1/4	4,466.71	1/4	4,138.83	1/4	3,807.14	1/4	3,475.45	1/4	3,143.76	1/4	2,812.07	1/4	2,480.30			
1/2	1/2	5,067.24	1/2	4,772.36	1/2	4,460.03	1/2	4,131.92	1/2	3,800.23	1/2	3,468.54	1/2	3,136.85	1/2	2,805.16	1/2	2,473.38			
3/4	3/4	5,061.31	3/4	4,766.05	3/4	4,453.35	3/4	4,125.01	3/4	3,793.32	3/4	3,461.63	3/4	3,129.94	3/4	2,798.25	3/4	2,466.47			
4	4	5,055.36	4	4,759.71	4	4,446.64	4	4,118.10	4	3,786.41	4	3,454.72	4	3,123.03	4	2,791.34	4	2,459.55			
1/4	1/4	5,049.41	1/4	4,753.37	1/4	4,439.93	1/4	4,111.19	1/4	3,779.50	1/4	3,447.81	1/4	3,116.12	1/4	2,784.43	1/4	2,452.64			
1/2	1/2	5,043.46	1/2	4,747.04	1/2	4,433.22	1/2	4,104.28	1/2	3,772.59	1/2	3,440.90	1/2	3,109.21	1/2	2,777.52	1/2	2,445.72			
3/4	3/4	5,037.50	3/4	4,740.70	3/4	4,426.51	3/4	4,097.37	3/4	3,765.68	3/4	3,433.99	3/4	3,102.30	3/4	2,770.61	3/4	2,438.81			
5	5	5,031.51	5	4,734.33	5	4,419.77	5	4,090.46	5	3,758.77	5	3,427.08	5	3,095.39	5	2,763.70	5	2,431.89			
1/4	1/4	5,025.52	1/4	4,727.96	1/4	4,413.04	1/4	4,083.55	1/4	3,751.86	1/4	3,420.17	1/4	3,088.48	1/4	2,756.79	1/4	2,424.98			
1/2	1/2	5,019.52	1/2	4,721.60	1/2	4,406.30	1/2	4,076.64	1/2	3,744.95	1/2	3,413.26	1/2	3,081.57	1/2	2,749.88	1/2	2,418.07			
3/4	3/4	5,013.53	3/4	4,715.23	3/4	4,399.56	3/4	4,069.73	3/4	3,738.04	3/4	3,406.35	3/4	3,074.66	3/4	2,742.97	3/4	2,411.15			
6	6	5,007.47	6	4,708.84	6	4,392.80	6	4,062.82	6	3,731.13	6	3,399.44	6	3,067.75	6	2,736.06	6	2,404.24			
1/4	1/4	5,001.40	1/4	4,702.44	1/4	4,386.03	1/4	4,055.91	1/4	3,724.22	1/4	3,392.53	1/4	3,060.84	1/4	2,729.15	1/4	2,397.32			
1/2	1/2	4,995.34	1/2	4,696.05	1/2	4,379.27	1/2	4,049.00	1/2	3,717.31	1/2	3,385.62	1/2	3,053.93	1/2	2,722.24	1/2	2,390.41			
3/4	3/4	4,989.28	3/4	4,689.65	3/4	4,372.50	3/4	4,042.09	3/4	3,710.40	3/4	3,378.71	3/4	3,047.02	3/4	2,715.33	3/4	2,383.49			
7	7	4,983.19	7	4,683.23	7	4,365.71	7	4,035.18	7	3,703.49	7	3,371.80	7	3,040.11	7	2,708.42	7	2,376.58			
1/4	1/4	4,977.10	1/4	4,676.81	1/4	4,358.91	1/4	4,028.27	1/4	3,696.58	1/4	3,364.89	1/4	3,033.20	1/4	2,701.51	1/4	2,369.66			
1/2	1/2	4,971.01	1/2	4,670.39	1/2	4,352.12	1/2	4,021.35	1/2	3,689.67	1/2	3,357.98	1/2	3,026.29	1/2	2,694.60	1/2	2,362.75			
3/4	3/4	4,964.92	3/4	4,663.97	3/4	4,345.33	3/4	4,014.44	3/4	3,682.76	3/4	3,351.07	3/4	3,019.38	3/4	2,687.69	3/4	2,355.83			
8	8	4,958.80	8	4,657.51	8	4,338.51	8	4,007.53	8	3,675.84	8	3,344.16	8	3,012.47	8	2,680.78	8	2,348.92			
1/4	1/4	4,952.68	1/4	4,651.05	1/4	4,331.69	1/4	4,000.62	1/4	3,668.93	1/4	3,337.25	1/4	3,005.56	1/4	2,673.87	1/4	2,342.00			
1/2	1/2	4,946.56	1/2	4,644.59	1/2	4,324.87	1/2	3,993.71	1/2	3,662.02	1/2	3,330.33	1/2	2,998.65	1/2	2,666.96	1/2	2,335.09			
3/4	3/4	4,940.45	3/4	4,638.13	3/4	4,318.05	3/4	3,986.80	3/4	3,655.11	3/4	3,323.42	3/4	2,991.74	3/4	2,660.05	3/4	2,328.17			
9	9	4,934.30	9	4,631.61	9	4,311.20	9	3,979.89	9	3,648.20	9	3,316.51	9	2,984.82	9	2,653.14	9	2,321.26			
1/4	1/4	4,928.16	1/4	4,625.10	1/4	4,304.35	1/4	3,972.98	1/4	3,641.29	1/4	3,309.60	1/4	2,977.91	1/4	2,646.23	1/4	2,314.34			
1/2	1/2	4,922.01	1/2	4,618.58	1/2	4,297.50	1/2	3,966.07	1/2	3,634.38	1/2	3,302.69	1/2	2,971.00	1/2	2,639.31	1/2	2,307.43			
3/4	3/4	4,915.87	3/4	4,612.06	3/4	4,290.66	3/4	3,959.16	3/4	3,627.47	3/4	3,295.78	3/4	2,964.09	3/4	2,632.40	3/4	2,300.51			
10	10	4,909.69	10	4,605.52	10	4,283.78	10	3,952.25	10	3,620.56	10	3,288.87	10	2,957.18	10	2,625.49	10	2,293.60			
1/4	1/4	4,903.52	1/4	4,598.98	1/4	4,276.91	1/4	3,945.34	1/4	3,613.65	1/4	3,281.96	1/4	2,950.27	1/4	2,618.58	1/4	2,286.68			
1/2	1/2	4,897.35	1/2	4,592.43	1/2	4,270.03	1/2	3,938.43	1/2	3,606.74	1/2	3,275.05	1/2	2,943.36	1/2	2,611.67	1/2	2,279.77			
3/4	3/4	4,891.17	3/4	4,585.89	3/4	4,263.15	3/4	3,931.52	3/4	3,599.83	3/4	3,268.14	3/4	2,936.45	3/4	2,604.76	3/4	2,272.85			
11	11	4,884.97	11	4,579.32	11	4,256.26	11	3,924.61	11	3,592.92	11	3,261.23	11	2,929.54	11	2,597.85	11	2,265.94			
1/4	1/4	4,878.77	1/4	4,572.74	1/4	4,249.36	1/4	3,917.70	1/4	3,586.01	1/4	3,254.32	1/4	2,922.63	1/4	2,590.94	1/4	2,259.02			
1/2	1/2	4,872.57	1/2	4,566.17	1/2	4,242.47	1/2	3,910.79	1/2	3,579.10	1/2	3,247.41	1/2	2,915.72	1/2	2,584.02	1/2	2,252.11			
3/4	3/4	4,866.37	3/4	4,559.60	3/4	4,235.57	3/4	3,903.88	3/4	3,572.19	3/4	3,240.50	3/4	2,908.81	3/4	2,577.11	3/4	2,245.20			

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'-06" 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 251"

1 STBD
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.	
0	2,238.28	0	1,906.37	0	1,574.46	0	1,242.55	0	911.67	0	581.04	0	249.18	0		0		0	
1/4	2,231.37	1/4	1,899.46	1/4	1,567.54	1/4	1,235.63	1/4	904.80	1/4	574.13	1/4	242.26	1/4	1/4	1/4		1/4	
1/2	2,224.45	1/2	1,892.54	1/2	1,560.63	1/2	1,228.72	1/2	897.94	1/2	567.22	1/2	235.35	1/2	1/2	1/2		1/2	
3/4	2,217.54	3/4	1,885.63	3/4	1,553.72	3/4	1,221.80	3/4	891.07	3/4	560.30	3/4	228.43	3/4	3/4	3/4		3/4	
1	2,210.62	1	1,878.71	1	1,546.80	1	1,214.89	1	884.21	1	553.39	1	221.52	1	1	1		1	
1/4	2,203.71	1/4	1,871.80	1/4	1,539.89	1/4	1,207.98	1/4	877.34	1/4	546.47	1/4	214.60	1/4	1/4	1/4		1/4	
1/2	2,196.79	1/2	1,864.88	1/2	1,532.97	1/2	1,201.06	1/2	870.48	1/2	539.56	1/2	207.69	1/2	1/2	1/2		1/2	
3/4	2,189.88	3/4	1,857.97	3/4	1,526.06	3/4	1,194.15	3/4	863.61	3/4	532.64	3/4	200.78	3/4	3/4	3/4		3/4	
2	2,182.96	2	1,851.05	2	1,519.14	2	1,187.23	2	856.75	2	525.73	2	193.86	2	2	2		2	
1/4	2,176.05	1/4	1,844.14	1/4	1,512.23	1/4	1,180.32	1/4	849.88	1/4	518.81	1/4	186.95	1/4	1/4	1/4		1/4	
1/2	2,169.13	1/2	1,837.22	1/2	1,505.31	1/2	1,173.40	1/2	843.01	1/2	511.90	1/2	180.03	1/2	1/2	1/2		1/2	
3/4	2,162.22	3/4	1,830.31	3/4	1,498.40	3/4	1,166.49	3/4	836.15	3/4	504.98	3/4	173.12	3/4	3/4	3/4		3/4	
3	2,155.30	3	1,823.39	3	1,491.48	3	1,159.57	3	829.28	3	498.07	3	166.20	3	3	3		3	
1/4	2,148.39	1/4	1,816.48	1/4	1,484.57	1/4	1,152.66	1/4	822.42	1/4	491.16	1/4	159.29	1/4	1/4	1/4		1/4	
1/2	2,141.47	1/2	1,809.56	1/2	1,477.65	1/2	1,145.74	1/2	815.55	1/2	484.24	1/2	152.37	1/2	1/2	1/2		1/2	
3/4	2,134.56	3/4	1,802.65	3/4	1,470.74	3/4	1,138.83	3/4	808.69	3/4	477.33	3/4	145.46	3/4	3/4	3/4		3/4	
4	2,127.64	4	1,795.73	4	1,463.82	4	1,131.91	4	801.82	4	470.41	4	138.55	4	4	4		4	
1/4	2,120.73	1/4	1,788.82	1/4	1,456.91	1/4	1,125.00	1/4	794.95	1/4	463.50	1/4	131.64	1/4	1/4	1/4		1/4	
1/2	2,113.81	1/2	1,781.90	1/2	1,449.99	1/2	1,118.08	1/2	788.09	1/2	456.58	1/2	124.73	1/2	1/2	1/2		1/2	
3/4	2,106.90	3/4	1,774.99	3/4	1,443.08	3/4	1,111.17	3/4	781.22	3/4	449.67	3/4	117.82	3/4	3/4	3/4		3/4	
5	2,099.98	5	1,768.07	5	1,436.16	5	1,104.25	5	774.36	5	442.75	5	110.92	5	5	5		5	
1/4	2,093.07	1/4	1,761.16	1/4	1,429.25	1/4	1,097.34	1/4	767.49	1/4	435.84	1/4	104.02	1/4	1/4	1/4		1/4	
1/2	2,086.15	1/2	1,754.24	1/2	1,422.33	1/2	1,090.42	1/2	760.63	1/2	428.93	1/2	97.12	1/2	1/2	1/2		1/2	
3/4	2,079.24	3/4	1,747.33	3/4	1,415.42	3/4	1,083.51	3/4	753.76	3/4	422.01	3/4	90.23	3/4	3/4	3/4		3/4	
6	2,072.33	6	1,740.41	6	1,408.50	6	1,076.60	6	746.88	6	415.10	6	83.51	6	6	6		6	
1/4	2,065.41	1/4	1,733.50	1/4	1,401.59	1/4	1,069.70	1/4	740.00	1/4	408.18	1/4	76.80	1/4	1/4	1/4		1/4	
1/2	2,058.50	1/2	1,726.59	1/2	1,394.67	1/2	1,062.80	1/2	733.13	1/2	401.27	1/2	70.08	1/2	1/2	1/2		1/2	
3/4	2,051.58	3/4	1,719.67	3/4	1,387.76	3/4	1,055.89	3/4	726.25	3/4	394.35	3/4	63.37	3/4	3/4	3/4		3/4	
7	2,044.67	7	1,712.76	7	1,380.85	7	1,049.02	7	719.33	7	387.44	7	57.49	7	7	7		7	
1/4	2,037.75	1/4	1,705.84	1/4	1,373.93	1/4	1,042.15	1/4	712.42	1/4	380.53	1/4	51.62	1/4	1/4	1/4		1/4	
1/2	2,030.84	1/2	1,698.93	1/2	1,367.02	1/2	1,035.28	1/2	705.51	1/2	373.61	1/2	45.74	1/2	1/2	1/2		1/2	
3/4	2,023.92	3/4	1,692.01	3/4	1,360.10	3/4	1,028.40	3/4	698.59	3/4	366.70	3/4	39.87	3/4	3/4	3/4		3/4	
8	2,017.01	8	1,685.10	8	1,353.19	8	1,021.53	8	691.68	8	359.79	8	35.37	8	8	8		8	
1/4	2,010.09	1/4	1,678.18	1/4	1,346.27	1/4	1,014.66	1/4	684.76	1/4	352.88	1/4	30.88	1/4	1/4	1/4		1/4	
1/2	2,003.18	1/2	1,671.27	1/2	1,339.36	1/2	1,007.79	1/2	677.85	1/2	345.97	1/2	26.39	1/2	1/2	1/2		1/2	
3/4	1,996.26	3/4	1,664.35	3/4	1,332.44	3/4	1,000.92	3/4	670.93	3/4	339.05	3/4	21.89	3/4	3/4	3/4		3/4	
9	1,989.35	9	1,657.44	9	1,325.53	9	994.06	9	664.02	9	332.14	9		9	9	9		9	
1/4	1,982.43	1/4	1,650.52	1/4	1,318.61	1/4	987.19	1/4	657.10	1/4	325.23	1/4		1/4	1/4	1/4		1/4	
1/2	1,975.52	1/2	1,643.61	1/2	1,311.70	1/2	980.33	1/2	650.19	1/2	318.32	1/2		1/2	1/2	1/2		1/2	
3/4	1,968.60	3/4	1,636.69	3/4	1,304.78	3/4	973.46	3/4	643.27	3/4	311.41	3/4		3/4	3/4	3/4		3/4	
10	1,961.69	10	1,629.78	10	1,297.87	10	966.60	10	636.36	10	304.49	10		10	10	10		10	
1/4	1,954.77	1/4	1,622.86	1/4	1,290.95	1/4	959.73	1/4	629.45	1/4	297.58	1/4		1/4	1/4	1/4		1/4	
1/2	1,947.86	1/2	1,615.95	1/2	1,284.04	1/2	952.86	1/2	622.53	1/2	290.66	1/2		1/2	1/2	1/2		1/2	
3/4	1,940.94	3/4	1,609.03	3/4	1,277.12	3/4	946.00	3/4	615.62	3/4	283.75	3/4		3/4	3/4	3/4		3/4	
11	1,934.03	11	1,602.12	11	1,270.21	11	939.13	11	608.70	11	276.83	11		11	11	11		11	
1/4	1,927.11	1/4	1,595.20	1/4	1,263.29	1/4	932.27	1/4	601.79	1/4	269.92	1/4		1/4	1/4	1/4		1/4	
1/2	1,920.20	1/2	1,588.29	1/2	1,256.38	1/2	925.40	1/2	594.87	1/2	263.01	1/2		1/2	1/2	1/2		1/2	
3/4	1,913.28	3/4	1,581.37	3/4	1,249.46	3/4	918.54	3/4	587.96	3/4	256.09	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/23/2013 CL - SW
CALCULATED: 03/24/2013 CL
PRINTED: 03/24/2013 CL

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 251"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-09"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4		1/4		1/4	4,854.29	1/4	4,548.41	1/4	4,225.29	1/4	3,894.56	1/4	3,563.83	1/4	3,233.10	1/4	2,902.37	1/4	2,571.62
1/2		1/2	5,126.91	1/2	4,841.87	1/2	4,535.25	1/2	4,211.51	1/2	3,880.78	1/2	3,550.05	1/2	3,219.32	1/2	2,888.59	1/2	2,557.83
3/4		3/4	5,122.05	3/4	4,835.66	3/4	4,528.67	3/4	4,204.62	3/4	3,873.89	3/4	3,543.16	3/4	3,212.43	3/4	2,881.70	3/4	2,550.94
1		1	5,117.18	1	4,829.45	1	4,522.09	1	4,197.73	1	3,867.00	1	3,536.27	1	3,205.54	1	2,874.81	1	2,544.04
1/4		1/4	5,111.84	1/4	4,823.21	1/4	4,515.48	1/4	4,190.84	1/4	3,860.11	1/4	3,529.38	1/4	3,198.65	1/4	2,867.92	1/4	2,537.15
1/2		1/2	5,106.50	1/2	4,816.97	1/2	4,508.87	1/2	4,183.95	1/2	3,853.22	1/2	3,522.49	1/2	3,191.76	1/2	2,861.03	1/2	2,530.25
3/4		3/4	5,101.17	3/4	4,810.73	3/4	4,502.26	3/4	4,177.06	3/4	3,846.33	3/4	3,515.60	3/4	3,184.87	3/4	2,854.14	3/4	2,523.36
2		2	5,095.83	2	4,804.50	2	4,495.65	2	4,170.17	2	3,839.44	2	3,508.71	2	3,177.98	2	2,847.25	2	2,516.46
1/4		1/4	5,089.95	1/4	4,798.23	1/4	4,489.02	1/4	4,163.28	1/4	3,832.55	1/4	3,501.82	1/4	3,171.09	1/4	2,840.36	1/4	2,509.57
1/2		1/2	5,084.06	1/2	4,791.97	1/2	4,482.38	1/2	4,156.39	1/2	3,825.66	1/2	3,494.93	1/2	3,164.20	1/2	2,833.47	1/2	2,502.67
3/4		3/4	5,078.18	3/4	4,785.70	3/4	4,475.75	3/4	4,149.50	3/4	3,818.77	3/4	3,488.04	3/4	3,157.31	3/4	2,826.58	3/4	2,495.78
3		3	5,072.30	3	4,779.43	3	4,469.11	3	4,142.61	3	3,811.88	3	3,481.15	3	3,150.42	3	2,819.69	3	2,488.88
1/4		1/4	5,066.39	1/4	4,773.14	1/4	4,462.45	1/4	4,135.72	1/4	3,804.99	1/4	3,474.26	1/4	3,143.53	1/4	2,812.80	1/4	2,481.99
1/2		1/2	5,060.48	1/2	4,766.85	1/2	4,455.79	1/2	4,128.83	1/2	3,798.10	1/2	3,467.37	1/2	3,136.64	1/2	2,805.91	1/2	2,475.09
3/4		3/4	5,054.58	3/4	4,760.56	3/4	4,449.12	3/4	4,121.94	3/4	3,791.21	3/4	3,460.48	3/4	3,129.75	3/4	2,799.02	3/4	2,468.20
4		4	5,048.67	4	4,754.26	4	4,442.46	4	4,115.04	4	3,784.32	4	3,453.59	4	3,122.86	4	2,792.13	4	2,461.30
1/4		1/4	5,042.73	1/4	4,747.94	1/4	4,435.77	1/4	4,108.15	1/4	3,777.43	1/4	3,446.70	1/4	3,115.97	1/4	2,785.24	1/4	2,454.41
1/2		1/2	5,036.80	1/2	4,741.62	1/2	4,429.08	1/2	4,101.26	1/2	3,770.53	1/2	3,439.81	1/2	3,109.08	1/2	2,778.35	1/2	2,447.51
3/4		3/4	5,030.86	3/4	4,735.30	3/4	4,422.39	3/4	4,094.37	3/4	3,763.64	3/4	3,432.92	3/4	3,102.19	3/4	2,771.46	3/4	2,440.62
5		5	5,024.93	5	4,728.98	5	4,415.70	5	4,087.48	5	3,756.75	5	3,426.02	5	3,095.30	5	2,764.57	5	2,433.72
1/4		1/4	5,018.95	1/4	4,722.63	1/4	4,408.98	1/4	4,080.59	1/4	3,749.86	1/4	3,419.13	1/4	3,088.41	1/4	2,757.68	1/4	2,426.83
1/2		1/2	5,012.98	1/2	4,716.28	1/2	4,402.26	1/2	4,073.70	1/2	3,742.97	1/2	3,412.24	1/2	3,081.51	1/2	2,750.79	1/2	2,419.94
3/4		3/4	5,007.00	3/4	4,709.94	3/4	4,395.54	3/4	4,066.81	3/4	3,736.08	3/4	3,405.35	3/4	3,074.62	3/4	2,743.90	3/4	2,413.04
6		6	5,001.02	6	4,703.59	6	4,388.83	6	4,059.92	6	3,729.19	6	3,398.46	6	3,067.73	6	2,737.00	6	2,406.15
1/4		1/4	4,994.98	1/4	4,697.21	1/4	4,382.08	1/4	4,053.03	1/4	3,722.30	1/4	3,391.57	1/4	3,060.84	1/4	2,730.11	1/4	2,399.25
1/2		1/2	4,988.93	1/2	4,690.84	1/2	4,375.34	1/2	4,046.14	1/2	3,715.41	1/2	3,384.68	1/2	3,053.95	1/2	2,723.22	1/2	2,392.36
3/4		3/4	4,982.89	3/4	4,684.46	3/4	4,368.59	3/4	4,039.25	3/4	3,708.52	3/4	3,377.79	3/4	3,047.06	3/4	2,716.33	3/4	2,385.46
7		7	4,976.84	7	4,678.08	7	4,361.84	7	4,032.36	7	3,701.63	7	3,370.90	7	3,040.17	7	2,709.44	7	2,378.57
1/4		1/4	4,970.77	1/4	4,671.68	1/4	4,355.07	1/4	4,025.47	1/4	3,694.74	1/4	3,364.01	1/4	3,033.28	1/4	2,702.55	1/4	2,371.67
1/2		1/2	4,964.70	1/2	4,665.28	1/2	4,348.30	1/2	4,018.58	1/2	3,687.85	1/2	3,357.12	1/2	3,026.39	1/2	2,695.66	1/2	2,364.78
3/4		3/4	4,958.63	3/4	4,658.88	3/4	4,341.53	3/4	4,011.69	3/4	3,680.96	3/4	3,350.23	3/4	3,019.50	3/4	2,688.77	3/4	2,357.88
8		8	4,952.55	8	4,652.47	8	4,334.75	8	4,004.80	8	3,674.07	8	3,343.34	8	3,012.61	8	2,681.88	8	2,350.99
1/4		1/4	4,946.45	1/4	4,646.03	1/4	4,327.95	1/4	3,997.91	1/4	3,667.18	1/4	3,336.45	1/4	3,005.72	1/4	2,674.99	1/4	2,344.09
1/2		1/2	4,940.35	1/2	4,639.59	1/2	4,321.15	1/2	3,991.02	1/2	3,660.29	1/2	3,329.56	1/2	2,998.83	1/2	2,668.10	1/2	2,337.20
3/4		3/4	4,934.25	3/4	4,633.15	3/4	4,314.35	3/4	3,984.13	3/4	3,653.40	3/4	3,322.67	3/4	2,991.94	3/4	2,661.21	3/4	2,330.30
9		9	4,928.15	9	4,626.71	9	4,307.55	9	3,977.24	9	3,646.51	9	3,315.78	9	2,985.05	9	2,654.32	9	2,323.41
1/4		1/4	4,922.02	1/4	4,620.21	1/4	4,300.72	1/4	3,970.35	1/4	3,639.62	1/4	3,308.89	1/4	2,978.16	1/4	2,647.43	1/4	2,316.51
1/2		1/2	4,915.90	1/2	4,613.71	1/2	4,293.89	1/2	3,963.46	1/2	3,632.73	1/2	3,302.00	1/2	2,971.27	1/2	2,640.54	1/2	2,309.62
3/4		3/4	4,909.77	3/4	4,607.22	3/4	4,287.06	3/4	3,956.57	3/4	3,625.84	3/4	3,295.11	3/4	2,964.38	3/4	2,633.65	3/4	2,302.72
10		10	4,903.64	10	4,600.72	10	4,280.24	10	3,949.68	10	3,618.95	10	3,288.22	10	2,957.49	10	2,626.76	10	2,295.83
1/4		1/4	4,897.49	1/4	4,594.19	1/4	4,273.38	1/4	3,942.79	1/4	3,612.06	1/4	3,281.33	1/4	2,950.60	1/4	2,619.87	1/4	2,288.93
1/2		1/2	4,891.33	1/2	4,587.67	1/2	4,266.52	1/2	3,935.90	1/2	3,605.17	1/2	3,274.44	1/2	2,943.71	1/2	2,612.98	1/2	2,282.04
3/4		3/4	4,885.18	3/4	4,581.14	3/4	4,259.67	3/4	3,929.01	3/4	3,598.28	3/4	3,267.55	3/4	2,936.82	3/4	2,606.09	3/4	2,275.14
11		11	4,879.02	11	4,574.62	11	4,252.81	11	3,922.12	11	3,591.39	11	3,260.66	11	2,929.93	11	2,599.20	11	2,268.25
1/4		1/4	4,872.84	1/4	4,568.07	1/4	4,245.93	1/4	3,915.23	1/4	3,584.50	1/4	3,253.77	1/4	2,923.04	1/4	2,592.31	1/4	2,261.35
1/2		1/2	4,866.66	1/2	4,561.51	1/2	4,239.05	1/2	3,908.34	1/2	3,577.61	1/2	3,246.88	1/2	2,916.15	1/2	2,585.41	1/2	2,254.46
3/4		3/4	4,860.47	3/4	4,554.96	3/4	4,232.17	3/4	3,901.45	3/4	3,570.72	3/4	3,239.99	3/4	2,909.26	3/4	2,578.52	3/4	2,247.56

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 251"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-09"

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	2,240.67	0	1,909.71	0	1,578.76	0	1,247.80	0	917.00	0	586.27	0	255.36	0		0		0	
1/4	2,233.77	1/4	1,902.82	1/4	1,571.86	1/4	1,240.91	1/4	910.12	1/4	579.37	1/4	248.46	1/4	1/4	1/4		1/4	
1/2	2,226.88	1/2	1,895.92	1/2	1,564.97	1/2	1,234.01	1/2	903.23	1/2	572.48	1/2	241.57	1/2	1/2	1/2		1/2	
3/4	2,219.98	3/4	1,889.03	3/4	1,558.07	3/4	1,227.12	3/4	896.35	3/4	565.59	3/4	234.67	3/4	3/4	3/4		3/4	
1	2,213.09	1	1,882.13	1	1,551.18	1	1,220.22	1	889.46	1	558.69	1	227.78	1	1	1		1	
1/4	2,206.19	1/4	1,875.24	1/4	1,544.28	1/4	1,213.33	1/4	882.57	1/4	551.80	1/4	220.88	1/4	1/4	1/4		1/4	
1/2	2,199.30	1/2	1,868.34	1/2	1,537.39	1/2	1,206.43	1/2	875.69	1/2	544.90	1/2	213.99	1/2	1/2	1/2		1/2	
3/4	2,192.40	3/4	1,861.45	3/4	1,530.49	3/4	1,199.54	3/4	868.80	3/4	538.01	3/4	207.09	3/4	3/4	3/4		3/4	
2	2,185.51	2	1,854.55	2	1,523.60	2	1,192.64	2	861.92	2	531.11	2	200.20	2	2	2		2	
1/4	2,178.61	1/4	1,847.66	1/4	1,516.70	1/4	1,185.75	1/4	855.03	1/4	524.22	1/4	193.30	1/4	1/4	1/4		1/4	
1/2	2,171.72	1/2	1,840.76	1/2	1,509.81	1/2	1,178.85	1/2	848.15	1/2	517.32	1/2	186.41	1/2	1/2	1/2		1/2	
3/4	2,164.82	3/4	1,833.87	3/4	1,502.91	3/4	1,171.96	3/4	841.26	3/4	510.43	3/4	179.52	3/4	3/4	3/4		3/4	
3	2,157.93	3	1,826.97	3	1,496.02	3	1,165.06	3	834.37	3	503.53	3	172.62	3	3	3		3	
1/4	2,151.03	1/4	1,820.08	1/4	1,489.12	1/4	1,158.17	1/4	827.49	1/4	496.64	1/4	165.73	1/4	1/4	1/4		1/4	
1/2	2,144.14	1/2	1,813.18	1/2	1,482.23	1/2	1,151.27	1/2	820.60	1/2	489.74	1/2	158.83	1/2	1/2	1/2		1/2	
3/4	2,137.24	3/4	1,806.29	3/4	1,475.33	3/4	1,144.38	3/4	813.72	3/4	482.85	3/4	151.94	3/4	3/4	3/4		3/4	
4	2,130.35	4	1,799.39	4	1,468.44	4	1,137.48	4	806.83	4	475.96	4	145.04	4	4	4		4	
1/4	2,123.45	1/4	1,792.50	1/4	1,461.54	1/4	1,130.59	1/4	799.95	1/4	469.06	1/4	138.15	1/4	1/4	1/4		1/4	
1/2	2,116.56	1/2	1,785.60	1/2	1,454.65	1/2	1,123.69	1/2	793.06	1/2	462.17	1/2	131.26	1/2	1/2	1/2		1/2	
3/4	2,109.66	3/4	1,778.71	3/4	1,447.75	3/4	1,116.80	3/4	786.18	3/4	455.27	3/4	124.37	3/4	3/4	3/4		3/4	
5	2,102.77	5	1,771.81	5	1,440.86	5	1,109.90	5	779.29	5	448.38	5	117.48	5	5	5		5	
1/4	2,095.87	1/4	1,764.92	1/4	1,433.96	1/4	1,103.01	1/4	772.40	1/4	441.48	1/4	110.60	1/4	1/4	1/4		1/4	
1/2	2,088.98	1/2	1,758.02	1/2	1,427.07	1/2	1,096.11	1/2	765.51	1/2	434.59	1/2	103.72	1/2	1/2	1/2		1/2	
3/4	2,082.09	3/4	1,751.13	3/4	1,420.17	3/4	1,089.22	3/4	758.63	3/4	427.69	3/4	96.85	3/4	3/4	3/4		3/4	
6	2,075.19	6	1,744.23	6	1,413.28	6	1,082.32	6	751.74	6	420.80	6	89.97	6	6	6		6	
1/4	2,068.30	1/4	1,737.34	1/4	1,406.38	1/4	1,075.43	1/4	744.84	1/4	413.90	1/4	83.27	1/4	1/4	1/4		1/4	
1/2	2,061.40	1/2	1,730.45	1/2	1,399.49	1/2	1,068.53	1/2	737.95	1/2	407.01	1/2	76.58	1/2	1/2	1/2		1/2	
3/4	2,054.51	3/4	1,723.55	3/4	1,392.60	3/4	1,061.64	3/4	731.06	3/4	400.11	3/4	69.88	3/4	3/4	3/4		3/4	
7	2,047.61	7	1,716.66	7	1,385.70	7	1,054.74	7	724.16	7	393.22	7	63.19	7	7	7		7	
1/4	2,040.72	1/4	1,709.76	1/4	1,378.81	1/4	1,047.85	1/4	717.27	1/4	386.33	1/4	57.33	1/4	1/4	1/4		1/4	
1/2	2,033.82	1/2	1,702.87	1/2	1,371.91	1/2	1,040.96	1/2	710.37	1/2	379.43	1/2	51.47	1/2	1/2	1/2		1/2	
3/4	2,026.93	3/4	1,695.97	3/4	1,365.02	3/4	1,034.07	3/4	703.48	3/4	372.54	3/4	45.61	3/4	3/4	3/4		3/4	
8	2,020.03	8	1,689.08	8	1,358.12	8	1,027.17	8	696.58	8	365.65	8	39.75	8	8	8		8	
1/4	2,013.14	1/4	1,682.18	1/4	1,351.23	1/4	1,020.29	1/4	689.69	1/4	358.75	1/4	35.27	1/4	1/4	1/4		1/4	
1/2	2,006.24	1/2	1,675.29	1/2	1,344.33	1/2	1,013.40	1/2	682.79	1/2	351.86	1/2	30.79	1/2	1/2	1/2		1/2	
3/4	1,999.35	3/4	1,668.39	3/4	1,337.44	3/4	1,006.52	3/4	675.90	3/4	344.97	3/4	26.31	3/4	3/4	3/4		3/4	
9	1,992.45	9	1,661.50	9	1,330.54	9	999.63	9	669.00	9	338.08	9	21.83	9	9	9		9	
1/4	1,985.56	1/4	1,654.60	1/4	1,323.65	1/4	992.75	1/4	662.11	1/4	331.19	1/4		1/4	1/4	1/4		1/4	
1/2	1,978.66	1/2	1,647.71	1/2	1,316.75	1/2	985.86	1/2	655.21	1/2	324.30	1/2		1/2	1/2	1/2		1/2	
3/4	1,971.77	3/4	1,640.81	3/4	1,309.86	3/4	978.97	3/4	648.32	3/4	317.40	3/4		3/4	3/4	3/4		3/4	
10	1,964.87	10	1,633.92	10	1,302.96	10	972.09	10	641.43	10	310.51	10		10	10	10		10	
1/4	1,957.98	1/4	1,627.02	1/4	1,296.07	1/4	965.20	1/4	634.53	1/4	303.62	1/4		1/4	1/4	1/4		1/4	
1/2	1,951.08	1/2	1,620.13	1/2	1,289.17	1/2	958.32	1/2	627.64	1/2	296.72	1/2		1/2	1/2	1/2		1/2	
3/4	1,944.19	3/4	1,613.23	3/4	1,282.28	3/4	951.43	3/4	620.74	3/4	289.83	3/4		3/4	3/4	3/4		3/4	
11	1,937.29	11	1,606.34	11	1,275.38	11	944.55	11	613.85	11	282.93	11		11	11	11		11	
1/4	1,930.40	1/4	1,599.44	1/4	1,268.49	1/4	937.66	1/4	606.95	1/4	276.04	1/4		1/4	1/4	1/4		1/4	
1/2	1,923.50	1/2	1,592.55	1/2	1,261.59	1/2	930.77	1/2	600.06	1/2	269.15	1/2		1/2	1/2	1/2		1/2	
3/4	1,916.61	3/4	1,585.65	3/4	1,254.70	3/4	923.89	3/4	593.16	3/4	262.25	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/23/2013 CL - SW
CALCULATED: 03/24/2013 CL
PRINTED: 03/24/2013 CL

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 251"

2 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.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0	5,110.44	0	4,788.11	0	4,458.58	0	4,127.77	0	3,796.97	0	3,466.16	0	3,135.36	0	2,804.55	0	2,473.70
1/4		1/4	5,105.34	1/4	4,781.26	1/4	4,451.69	1/4	4,120.88	1/4	3,790.08	1/4	3,459.27	1/4	3,128.46	1/4	2,797.66	1/4	2,466.81
1/2		1/2	5,100.23	1/2	4,774.41	1/2	4,444.80	1/2	4,113.99	1/2	3,783.18	1/2	3,452.38	1/2	3,121.57	1/2	2,790.77	1/2	2,459.91
3/4		3/4	5,093.95	3/4	4,767.55	3/4	4,437.91	3/4	4,107.10	3/4	3,776.29	3/4	3,445.49	3/4	3,114.68	3/4	2,783.87	3/4	2,453.02
1		1	5,087.67	1	4,760.70	1	4,431.01	1	4,100.21	1	3,769.40	1	3,438.59	1	3,107.79	1	2,776.98	1	2,446.12
1/4		1/4	5,081.38	1/4	4,753.85	1/4	4,424.12	1/4	4,093.32	1/4	3,762.51	1/4	3,431.70	1/4	3,100.90	1/4	2,770.09	1/4	2,439.22
1/2		1/2	5,075.10	1/2	4,747.00	1/2	4,417.23	1/2	4,086.42	1/2	3,755.62	1/2	3,424.81	1/2	3,094.00	1/2	2,763.20	1/2	2,432.33
3/4		3/4	5,068.30	3/4	4,740.14	3/4	4,410.34	3/4	4,079.53	3/4	3,748.73	3/4	3,417.92	3/4	3,087.11	3/4	2,756.31	3/4	2,425.43
2		2	5,061.50	2	4,733.29	2	4,403.45	2	4,072.64	2	3,741.83	2	3,411.03	2	3,080.22	2	2,749.41	2	2,418.53
1/4		1/4	5,054.70	1/4	4,726.44	1/4	4,396.55	1/4	4,065.75	1/4	3,734.94	1/4	3,404.14	1/4	3,073.33	1/4	2,742.52	1/4	2,411.64
1/2		1/2	5,047.90	1/2	4,719.59	1/2	4,389.66	1/2	4,058.86	1/2	3,728.05	1/2	3,397.24	1/2	3,066.44	1/2	2,735.63	1/2	2,404.74
3/4		3/4	5,041.10	3/4	4,712.73	3/4	4,382.77	3/4	4,051.96	3/4	3,721.16	3/4	3,390.35	3/4	3,059.55	3/4	2,728.74	3/4	2,397.84
3		3	5,034.31	3	4,705.88	3	4,375.88	3	4,045.07	3	3,714.27	3	3,383.46	3	3,052.65	3	2,721.85	3	2,390.95
1/4		1/4	5,027.51	1/4	4,699.03	1/4	4,368.99	1/4	4,038.18	1/4	3,707.37	1/4	3,376.57	1/4	3,045.76	1/4	2,714.96	1/4	2,384.05
1/2		1/2	5,020.71	1/2	4,692.18	1/2	4,362.10	1/2	4,031.29	1/2	3,700.48	1/2	3,369.68	1/2	3,038.87	1/2	2,708.06	1/2	2,377.15
3/4		3/4	5,013.91	3/4	4,685.32	3/4	4,355.20	3/4	4,024.40	3/4	3,693.59	3/4	3,362.78	3/4	3,031.98	3/4	2,701.17	3/4	2,370.26
4		4	5,007.11	4	4,678.47	4	4,348.31	4	4,017.51	4	3,686.70	4	3,355.89	4	3,025.09	4	2,694.28	4	2,363.36
1/4		1/4	5,000.32	1/4	4,671.62	1/4	4,341.42	1/4	4,010.61	1/4	3,679.81	1/4	3,349.00	1/4	3,018.19	1/4	2,687.39	1/4	2,356.46
1/2		1/2	4,993.52	1/2	4,664.77	1/2	4,334.53	1/2	4,003.72	1/2	3,672.92	1/2	3,342.11	1/2	3,011.30	1/2	2,680.50	1/2	2,349.57
3/4		3/4	4,986.71	3/4	4,657.91	3/4	4,327.64	3/4	3,996.83	3/4	3,666.02	3/4	3,335.22	3/4	3,004.41	3/4	2,673.60	3/4	2,342.67
5		5	4,979.90	5	4,651.06	5	4,320.75	5	3,989.94	5	3,659.13	5	3,328.33	5	2,997.52	5	2,666.71	5	2,335.77
1/4		1/4	4,973.09	1/4	4,644.21	1/4	4,313.85	1/4	3,983.05	1/4	3,652.24	1/4	3,321.43	1/4	2,990.63	1/4	2,659.82	1/4	2,328.88
1/2		1/2	4,966.28	1/2	4,637.36	1/2	4,306.96	1/2	3,976.16	1/2	3,645.35	1/2	3,314.54	1/2	2,983.74	1/2	2,652.93	1/2	2,321.98
3/4		3/4	4,959.42	3/4	4,630.50	3/4	4,300.07	3/4	3,969.26	3/4	3,638.46	3/4	3,307.65	3/4	2,976.84	3/4	2,646.04	3/4	2,315.09
6		6	4,952.57	6	4,623.65	6	4,293.18	6	3,962.37	6	3,631.57	6	3,300.76	6	2,969.95	6	2,639.15	6	2,308.19
1/4		1/4	4,945.72	1/4	4,616.80	1/4	4,286.29	1/4	3,955.48	1/4	3,624.67	1/4	3,293.87	1/4	2,963.06	1/4	2,632.25	1/4	2,301.29
1/2		1/2	4,938.87	1/2	4,609.95	1/2	4,279.39	1/2	3,948.59	1/2	3,617.78	1/2	3,286.98	1/2	2,956.17	1/2	2,625.36	1/2	2,294.40
3/4		3/4	4,932.01	3/4	4,603.09	3/4	4,272.50	3/4	3,941.70	3/4	3,610.89	3/4	3,280.08	3/4	2,949.28	3/4	2,618.47	3/4	2,287.50
7		7	4,925.16	7	4,596.24	7	4,265.61	7	3,934.80	7	3,604.00	7	3,273.19	7	2,942.39	7	2,611.58	7	2,280.60
1/4		1/4	4,918.31	1/4	4,589.39	1/4	4,258.72	1/4	3,927.91	1/4	3,597.11	1/4	3,266.30	1/4	2,935.49	1/4	2,604.69	1/4	2,273.71
1/2		1/2	4,911.46	1/2	4,582.54	1/2	4,251.83	1/2	3,921.02	1/2	3,590.21	1/2	3,259.41	1/2	2,928.60	1/2	2,597.80	1/2	2,266.81
3/4		3/4	4,904.60	3/4	4,575.67	3/4	4,244.94	3/4	3,914.13	3/4	3,583.32	3/4	3,252.52	3/4	2,921.71	3/4	2,590.90	3/4	2,259.91
8		8	4,897.75	8	4,568.80	8	4,238.04	8	3,907.24	8	3,576.43	8	3,245.62	8	2,914.82	8	2,584.01	8	2,253.02
1/4		1/4	4,890.90	1/4	4,561.93	1/4	4,231.15	1/4	3,900.35	1/4	3,569.54	1/4	3,238.73	1/4	2,907.93	1/4	2,577.12	1/4	2,246.12
1/2		1/2	4,884.05	1/2	4,555.07	1/2	4,224.26	1/2	3,893.45	1/2	3,562.65	1/2	3,231.84	1/2	2,901.03	1/2	2,570.23	1/2	2,239.22
3/4		3/4	4,877.19	3/4	4,548.17	3/4	4,217.37	3/4	3,886.56	3/4	3,555.76	3/4	3,224.95	3/4	2,894.14	3/4	2,563.34	3/4	2,232.33
9		9	4,870.34	9	4,541.28	9	4,210.48	9	3,879.67	9	3,548.86	9	3,218.06	9	2,887.25	9	2,556.44	9	2,225.43
1/4		1/4	4,863.49	1/4	4,534.39	1/4	4,203.58	1/4	3,872.78	1/4	3,541.97	1/4	3,211.17	1/4	2,880.36	1/4	2,549.55	1/4	2,218.53
1/2		1/2	4,856.64	1/2	4,527.50	1/2	4,196.69	1/2	3,865.89	1/2	3,535.08	1/2	3,204.27	1/2	2,873.47	1/2	2,542.66	1/2	2,211.64
3/4		3/4	4,849.78	3/4	4,520.61	3/4	4,189.80	3/4	3,858.99	3/4	3,528.19	3/4	3,197.38	3/4	2,866.58	3/4	2,535.77	3/4	2,204.74
10		10	4,842.93	10	4,513.72	10	4,182.91	10	3,852.10	10	3,521.30	10	3,190.49	10	2,859.68	10	2,528.87	10	2,197.84
1/4		1/4	4,836.08	1/4	4,506.82	1/4	4,176.02	1/4	3,845.21	1/4	3,514.40	1/4	3,183.60	1/4	2,852.79	1/4	2,521.98	1/4	2,190.95
1/2		1/2	4,829.23	1/2	4,499.93	1/2	4,169.13	1/2	3,838.32	1/2	3,507.51	1/2	3,176.71	1/2	2,845.90	1/2	2,515.08	1/2	2,184.05
3/4		3/4	4,822.37	3/4	4,493.04	3/4	4,162.23	3/4	3,831.43	3/4	3,500.62	3/4	3,169.81	3/4	2,839.01	3/4	2,508.19	3/4	2,177.16
11		11	4,815.52	11	4,486.15	11	4,155.34	11	3,824.54	11	3,493.73	11	3,162.92	11	2,832.12	11	2,501.29	11	2,170.26
1/4		1/4	4,808.67	1/4	4,479.26	1/4	4,148.45	1/4	3,817.64	1/4	3,486.84	1/4	3,156.03	1/4	2,825.22	1/4	2,494.39	1/4	2,163.36
1/2		1/2	4,801.82	1/2	4,472.36	1/2	4,141.56	1/2	3,810.75	1/2	3,479.95	1/2	3,149.14	1/2	2,818.33	1/2	2,487.50	1/2	2,156.47
3/4		3/4	4,794.96	3/4	4,465.47	3/4	4,134.67	3/4	3,803.86	3/4	3,473.05	3/4	3,142.25	3/4	2,811.44	3/4	2,480.60	3/4	2,149.57

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 251"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08 1/2"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
0	2,142.67	0	1,811.64	0	1,480.61	0	1,149.58	0	827.45	0	542.80	0	234.63	0		0		0	
1/4	2,135.78	1/4	1,804.74	1/4	1,473.71	1/4	1,142.68	1/4	821.15	1/4	536.55	1/4	228.04	1/4	1/4		1/4		1/4
1/2	2,128.88	1/2	1,797.85	1/2	1,466.82	1/2	1,135.78	1/2	814.86	1/2	530.29	1/2	221.45	1/2	1/2		1/2		1/2
3/4	2,121.98	3/4	1,790.95	3/4	1,459.92	3/4	1,128.89	3/4	809.28	3/4	524.01	3/4	214.84	3/4	3/4		3/4		3/4
1	2,115.09	1	1,784.05	1	1,453.02	1	1,121.99	1	803.69	1	517.72	1	208.23	1	1		1		1
1/4	2,108.19	1/4	1,777.16	1/4	1,446.13	1/4	1,115.09	1/4	798.11	1/4	511.44	1/4	201.61	1/4	1/4		1/4		1/4
1/2	2,101.29	1/2	1,770.26	1/2	1,439.23	1/2	1,108.20	1/2	792.52	1/2	505.16	1/2	195.00	1/2	1/2		1/2		1/2
3/4	2,094.40	3/4	1,763.37	3/4	1,432.33	3/4	1,101.30	3/4	786.91	3/4	498.85	3/4	188.36	3/4	3/4		3/4		3/4
2	2,087.50	2	1,756.47	2	1,425.44	2	1,094.40	2	781.30	2	492.54	2	181.72	2	2		2		2
1/4	2,080.60	1/4	1,749.57	1/4	1,418.54	1/4	1,087.51	1/4	775.68	1/4	486.23	1/4	175.07	1/4	1/4		1/4		1/4
1/2	2,073.71	1/2	1,742.68	1/2	1,411.64	1/2	1,080.61	1/2	770.07	1/2	479.92	1/2	168.43	1/2	1/2		1/2		1/2
3/4	2,066.81	3/4	1,735.78	3/4	1,404.75	3/4	1,073.72	3/4	764.43	3/4	473.58	3/4	161.76	3/4	3/4		3/4		3/4
3	2,059.91	3	1,728.88	3	1,397.85	3	1,066.82	3	758.79	3	467.24	3	155.10	3	3		3		3
1/4	2,053.02	1/4	1,721.99	1/4	1,390.95	1/4	1,059.92	1/4	753.15	1/4	460.90	1/4	148.43	1/4	1/4		1/4		1/4
1/2	2,046.12	1/2	1,715.09	1/2	1,384.06	1/2	1,053.03	1/2	747.51	1/2	454.56	1/2	141.76	1/2	1/2		1/2		1/2
3/4	2,039.23	3/4	1,708.19	3/4	1,377.16	3/4	1,046.13	3/4	741.84	3/4	448.20	3/4	135.07	3/4	3/4		3/4		3/4
4	2,032.33	4	1,701.30	4	1,370.26	4	1,039.23	4	736.17	4	441.83	4	128.37	4	4		4		4
1/4	2,025.43	1/4	1,694.40	1/4	1,363.37	1/4	1,032.34	1/4	730.51	1/4	435.46	1/4	121.68	1/4	1/4		1/4		1/4
1/2	2,018.54	1/2	1,687.50	1/2	1,356.47	1/2	1,025.44	1/2	724.84	1/2	429.10	1/2	114.99	1/2	1/2		1/2		1/2
3/4	2,011.64	3/4	1,680.61	3/4	1,349.58	3/4	1,018.54	3/4	719.14	3/4	422.71	3/4	108.28	3/4	3/4		3/4		3/4
5	2,004.74	5	1,673.71	5	1,342.68	5	1,011.65	5	713.44	5	416.31	5	101.57	5	5		5		5
1/4	1,997.85	1/4	1,666.81	1/4	1,335.78	1/4	1,004.75	1/4	707.75	1/4	409.92	1/4	94.87	1/4	1/4		1/4		1/4
1/2	1,990.95	1/2	1,659.92	1/2	1,328.89	1/2	997.85	1/2	702.05	1/2	403.53	1/2	88.16	1/2	1/2		1/2		1/2
3/4	1,984.05	3/4	1,653.02	3/4	1,321.99	3/4	991.05	3/4	696.23	3/4	397.11	3/4	81.61	3/4	3/4		3/4		3/4
6	1,977.16	6	1,646.12	6	1,315.09	6	984.24	6	690.41	6	390.68	6	75.05	6	6		6		6
1/4	1,970.26	1/4	1,639.23	1/4	1,308.20	1/4	977.43	1/4	684.59	1/4	384.26	1/4	68.50	1/4	1/4		1/4		1/4
1/2	1,963.36	1/2	1,632.33	1/2	1,301.30	1/2	970.63	1/2	678.77	1/2	377.84	1/2	61.95	1/2	1/2		1/2		1/2
3/4	1,956.47	3/4	1,625.44	3/4	1,294.40	3/4	964.09	3/4	672.65	3/4	371.39	3/4	56.21	3/4	3/4		3/4		3/4
7	1,949.57	7	1,618.54	7	1,287.51	7	957.56	7	666.54	7	364.95	7	50.47	7	7		7		7
1/4	1,942.67	1/4	1,611.64	1/4	1,280.61	1/4	951.03	1/4	660.42	1/4	358.50	1/4	44.72	1/4	1/4		1/4		1/4
1/2	1,935.78	1/2	1,604.75	1/2	1,273.71	1/2	944.49	1/2	654.30	1/2	352.05	1/2	38.98	1/2	1/2		1/2		1/2
3/4	1,928.88	3/4	1,597.85	3/4	1,266.82	3/4	937.96	3/4	648.15	3/4	345.58	3/4	34.59	3/4	3/4		3/4		3/4
8	1,921.98	8	1,590.95	8	1,259.92	8	931.43	8	642.01	8	339.11	8	30.19	8	8		8		8
1/4	1,915.09	1/4	1,584.06	1/4	1,253.02	1/4	924.91	1/4	635.86	1/4	332.63	1/4	25.80	1/4	1/4		1/4		1/4
1/2	1,908.19	1/2	1,577.16	1/2	1,246.13	1/2	918.38	1/2	629.72	1/2	326.16	1/2	21.41	1/2	1/2		1/2		1/2
3/4	1,901.30	3/4	1,570.26	3/4	1,239.23	3/4	911.85	3/4	623.55	3/4	319.66	3/4		3/4	3/4		3/4		3/4
9	1,894.40	9	1,563.37	9	1,232.33	9	905.32	9	617.37	9	313.16	9		9	9		9		9
1/4	1,887.50	1/4	1,556.47	1/4	1,225.44	1/4	898.79	1/4	611.20	1/4	306.66	1/4		1/4	1/4		1/4		1/4
1/2	1,880.61	1/2	1,549.57	1/2	1,218.54	1/2	892.26	1/2	605.03	1/2	300.16	1/2		1/2	1/2		1/2		1/2
3/4	1,873.71	3/4	1,542.68	3/4	1,211.65	3/4	885.73	3/4	598.83	3/4	293.63	3/4		3/4	3/4		3/4		3/4
10	1,866.81	10	1,535.78	10	1,204.75	10	879.20	10	592.63	10	287.09	10		10	10		10		10
1/4	1,859.92	1/4	1,528.88	1/4	1,197.85	1/4	872.67	1/4	586.43	1/4	280.56	1/4		1/4	1/4		1/4		1/4
1/2	1,853.02	1/2	1,521.99	1/2	1,190.96	1/2	866.14	1/2	580.23	1/2	274.03	1/2		1/2	1/2		1/2		1/2
3/4	1,846.12	3/4	1,515.09	3/4	1,184.06	3/4	859.62	3/4	574.00	3/4	267.47	3/4		3/4	3/4		3/4		3/4
11	1,839.23	11	1,508.19	11	1,177.16	11	853.09	11	567.77	11	260.92	11		11	11		11		11
1/4	1,832.33	1/4	1,501.30	1/4	1,170.27	1/4	846.56	1/4	561.54	1/4	254.36	1/4		1/4	1/4		1/4		1/4
1/2	1,825.43	1/2	1,494.40	1/2	1,163.37	1/2	840.03	1/2	555.31	1/2	247.80	1/2		1/2	1/2		1/2		1/2
3/4	1,818.54	3/4	1,487.51	3/4	1,156.47	3/4	833.74	3/4	549.06	3/4	241.21	3/4		3/4	3/4		3/4		3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/23/2013 CL - SW
CALCULATED: 03/24/2013 CL
PRINTED: 03/24/2013 CL

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BARGE "CTCO 251"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-09"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.															
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0														
1/4		1/4		1/4	4,448.79	1/4		1/4	4,238.77	1/4		1/4	4,016.47	1/4		1/4	3,788.92	1/4		1/4	3,550.76	1/4		1/4	3,221.22	1/4		1/4	2,891.68	1/4		1/4	2,562.12
1/2		1/2	4,633.72	1/2	4,440.27	1/2	4,239.72	1/2	4,006.99	1/2	3,779.44	1/2	3,537.03	1/2	3,207.49	1/2	2,877.95	1/2	2,548.38														
3/4		3/4	4,630.93	3/4	4,436.00	3/4	4,225.19	3/4	4,002.25	3/4	3,774.70	3/4	3,530.16	3/4	3,200.62	3/4	2,871.08	3/4	2,541.51														
1	1	1	4,628.13	1	4,431.74	1	4,220.67	1	3,997.50	1	3,769.96	1	3,523.30	1	3,193.76	1	2,864.22	1	2,534.64														
1/4		1/4	4,624.65	1/4	4,427.47	1/4	4,216.12	1/4	3,992.76	1/4	3,765.22	1/4	3,516.43	1/4	3,186.89	1/4	2,857.35	1/4	2,527.77														
1/2		1/2	4,621.17	1/2	4,423.19	1/2	4,211.57	1/2	3,988.02	1/2	3,760.48	1/2	3,509.57	1/2	3,180.03	1/2	2,850.49	1/2	2,520.90														
3/4		3/4	4,617.69	3/4	4,418.91	3/4	4,207.03	3/4	3,983.28	3/4	3,755.74	3/4	3,502.70	3/4	3,173.16	3/4	2,843.62	3/4	2,514.03														
2	2	2	4,614.21	2	4,414.63	2	4,202.48	2	3,978.54	2	3,751.00	2	3,495.83	2	3,166.30	2	2,836.76	2	2,507.16														
1/4		1/4	4,610.19	1/4	4,410.33	1/4	4,197.92	1/4	3,973.80	1/4	3,746.26	1/4	3,488.97	1/4	3,159.43	1/4	2,829.89	1/4	2,500.29														
1/2		1/2	4,606.17	1/2	4,406.03	1/2	4,193.35	1/2	3,969.06	1/2	3,741.52	1/2	3,482.10	1/2	3,152.56	1/2	2,823.03	1/2	2,493.42														
3/4		3/4	4,602.15	3/4	4,401.73	3/4	4,188.79	3/4	3,964.32	3/4	3,736.78	3/4	3,475.24	3/4	3,145.70	3/4	2,816.16	3/4	2,486.55														
3	3	3	4,598.14	3	4,397.43	3	4,184.22	3	3,959.58	3	3,732.04	3	3,468.37	3	3,138.83	3	2,809.29	3	2,479.68														
1/4		1/4	4,594.10	1/4	4,393.12	1/4	4,179.64	1/4	3,954.84	1/4	3,727.30	1/4	3,461.51	1/4	3,131.97	1/4	2,802.43	1/4	2,472.81														
1/2		1/2	4,590.07	1/2	4,388.80	1/2	4,175.05	1/2	3,950.10	1/2	3,722.56	1/2	3,454.64	1/2	3,125.10	1/2	2,795.56	1/2	2,465.94														
3/4		3/4	4,586.03	3/4	4,384.48	3/4	4,170.47	3/4	3,945.36	3/4	3,717.82	3/4	3,447.78	3/4	3,118.24	3/4	2,788.70	3/4	2,459.07														
4	4	4	4,582.00	4	4,380.17	4	4,165.88	4	3,940.62	4	3,713.07	4	3,440.91	4	3,111.37	4	2,781.83	4	2,452.20														
1/4		1/4	4,577.94	1/4	4,375.83	1/4	4,161.28	1/4	3,935.88	1/4	3,708.33	1/4	3,434.05	1/4	3,104.51	1/4	2,774.97	1/4	2,445.33														
1/2		1/2	4,573.89	1/2	4,371.49	1/2	4,156.68	1/2	3,931.14	1/2	3,703.59	1/2	3,427.18	1/2	3,097.64	1/2	2,768.10	1/2	2,438.46														
3/4		3/4	4,569.84	3/4	4,367.16	3/4	4,152.08	3/4	3,926.40	3/4	3,698.85	3/4	3,420.32	3/4	3,090.78	3/4	2,761.24	3/4	2,431.59														
5	5	5	4,565.78	5	4,362.82	5	4,147.47	5	3,921.66	5	3,694.11	5	3,413.45	5	3,083.91	5	2,754.37	5	2,424.72														
1/4		1/4	4,561.70	1/4	4,358.47	1/4	4,142.85	1/4	3,916.92	1/4	3,689.37	1/4	3,406.58	1/4	3,077.05	1/4	2,747.51	1/4	2,417.85														
1/2		1/2	4,557.61	1/2	4,354.11	1/2	4,138.23	1/2	3,912.18	1/2	3,684.63	1/2	3,399.72	1/2	3,070.18	1/2	2,740.64	1/2	2,410.98														
3/4		3/4	4,553.53	3/4	4,349.76	3/4	4,133.61	3/4	3,907.44	3/4	3,679.89	3/4	3,392.85	3/4	3,063.31	3/4	2,733.78	3/4	2,404.11														
6	6	6	4,549.44	6	4,345.40	6	4,128.98	6	3,902.69	6	3,675.15	6	3,385.99	6	3,056.45	6	2,726.91	6	2,397.24														
1/4		1/4	4,545.29	1/4	4,341.03	1/4	4,124.34	1/4	3,897.95	1/4	3,670.41	1/4	3,379.12	1/4	3,049.58	1/4	2,720.04	1/4	2,390.37														
1/2		1/2	4,541.15	1/2	4,336.65	1/2	4,119.70	1/2	3,893.21	1/2	3,665.67	1/2	3,372.26	1/2	3,042.72	1/2	2,713.18	1/2	2,383.50														
3/4		3/4	4,537.00	3/4	4,332.28	3/4	4,115.06	3/4	3,888.47	3/4	3,660.93	3/4	3,365.39	3/4	3,035.85	3/4	2,706.31	3/4	2,376.63														
7	7	7	4,532.85	7	4,327.91	7	4,110.42	7	3,883.73	7	3,656.19	7	3,358.53	7	3,028.99	7	2,699.45	7	2,369.76														
1/4		1/4	4,528.69	1/4	4,323.51	1/4	4,105.76	1/4	3,878.99	1/4	3,651.45	1/4	3,351.66	1/4	3,022.12	1/4	2,692.58	1/4	2,362.89														
1/2		1/2	4,524.52	1/2	4,319.12	1/2	4,101.10	1/2	3,874.25	1/2	3,646.71	1/2	3,344.80	1/2	3,015.26	1/2	2,685.72	1/2	2,356.02														
3/4		3/4	4,520.36	3/4	4,314.73	3/4	4,096.44	3/4	3,869.51	3/4	3,641.97	3/4	3,337.93	3/4	3,008.39	3/4	2,678.85	3/4	2,349.15														
8	8	8	4,516.19	8	4,310.33	8	4,091.78	8	3,864.77	8	3,637.23	8	3,331.07	8	3,001.53	8	2,671.99	8	2,342.28														
1/4		1/4	4,512.01	1/4	4,305.91	1/4	4,087.10	1/4	3,860.03	1/4	3,632.49	1/4	3,324.20	1/4	2,994.66	1/4	2,665.12	1/4	2,335.41														
1/2		1/2	4,507.82	1/2	4,301.49	1/2	4,082.42	1/2	3,855.29	1/2	3,627.75	1/2	3,317.33	1/2	2,987.80	1/2	2,658.26	1/2	2,328.54														
3/4		3/4	4,503.64	3/4	4,297.07	3/4	4,077.74	3/4	3,850.55	3/4	3,623.01	3/4	3,310.47	3/4	2,980.93	3/4	2,651.39	3/4	2,321.67														
9	9	9	4,499.45	9	4,292.65	9	4,073.06	9	3,845.81	9	3,618.26	9	3,303.60	9	2,974.06	9	2,644.53	9	2,314.80														
1/4		1/4	4,495.25	1/4	4,288.18	1/4	4,068.37	1/4	3,841.07	1/4	3,613.52	1/4	3,296.74	1/4	2,967.20	1/4	2,637.66	1/4	2,307.93														
1/2		1/2	4,491.05	1/2	4,283.71	1/2	4,063.67	1/2	3,836.33	1/2	3,608.78	1/2	3,289.87	1/2	2,960.33	1/2	2,630.79	1/2	2,301.06														
3/4		3/4	4,486.84	3/4	4,279.24	3/4	4,058.97	3/4	3,831.59	3/4	3,604.04	3/4	3,283.01	3/4	2,953.47	3/4	2,623.93	3/4	2,294.19														
10	10	10	4,482.64	10	4,274.76	10	4,054.27	10	3,826.85	10	3,599.30	10	3,276.14	10	2,946.60	10	2,617.06	10	2,287.32														
1/4		1/4	4,478.42	1/4	4,270.28	1/4	4,049.56	1/4	3,822.11	1/4	3,594.03	1/4	3,269.28	1/4	2,939.74	1/4	2,610.20	1/4	2,280.45														
1/2		1/2	4,474.20	1/2	4,265.79	1/2	4,044.84	1/2	3,817.37	1/2	3,588.76	1/2	3,262.41	1/2	2,932.87	1/2	2,603.33	1/2	2,273.58														
3/4		3/4	4,469.97	3/4	4,261.30	3/4	4,040.12	3/4	3,812.63	3/4	3,583.49	3/4	3,255.55	3/4	2,926.01	3/4	2,596.47	3/4	2,266.71														
11	11	11	4,465.75	11	4,256.81	11	4,035.41	11	3,807.88	11	3,578.22	11	3,248.68	11	2,919.14	11	2,589.60	11	2,259.84														
1/4		1/4	4,461.51	1/4	4,252.30	1/4	4,030.67	1/4	3,803.14	1/4	3,571.35	1/4	3,241.82	1/4	2,912.28	1/4	2,582.73	1/4	2,252.97														
1/2		1/2	4,457.27	1/2	4,247.79	1/2	4,025.94	1/2	3,798.40	1/2	3,564.49	1/2	3,234.95	1/2	2,905.41	1/2	2,575.86	1/2	2,246.10														
3/4		3/4	4,453.03	3/4	4,243.28	3/4	4,021.20	3/4	3,793.66	3/4	3,557.62	3/4	3,228.08	3/4	2,898.55	3/4	2,568.99	3/4	2,239.23														

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 251"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-09"

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	2,232.36	0	1,902.70	0	1,572.95	0	1,243.19	0	913.64	0	584.16	0	254.44	0		0		0	
1/4	2,225.49	1/4	1,895.84	1/4	1,566.08	1/4	1,236.32	1/4	906.78	1/4	577.29	1/4	247.57	1/4	1/4	1/4		1/4	
1/2	2,218.62	1/2	1,888.97	1/2	1,559.21	1/2	1,229.45	1/2	899.92	1/2	570.42	1/2	240.70	1/2	1/2	1/2		1/2	
3/4	2,211.75	3/4	1,882.10	3/4	1,552.34	3/4	1,222.58	3/4	893.06	3/4	563.55	3/4	233.83	3/4	3/4	3/4		3/4	
1	2,204.88	1	1,875.23	1	1,545.47	1	1,215.71	1	886.20	1	556.68	1	226.96	1	1	1		1	
1/4	2,198.01	1/4	1,868.36	1/4	1,538.60	1/4	1,208.84	1/4	879.35	1/4	549.81	1/4	220.09	1/4	1/4	1/4		1/4	
1/2	2,191.14	1/2	1,861.49	1/2	1,531.73	1/2	1,201.97	1/2	872.49	1/2	542.94	1/2	213.22	1/2	1/2	1/2		1/2	
3/4	2,184.27	3/4	1,854.62	3/4	1,524.86	3/4	1,195.10	3/4	865.63	3/4	536.07	3/4	206.35	3/4	3/4	3/4		3/4	
2	2,177.40	2	1,847.75	2	1,517.99	2	1,188.23	2	858.77	2	529.20	2	199.48	2	2	2		2	
1/4	2,170.53	1/4	1,840.88	1/4	1,511.12	1/4	1,181.36	1/4	851.91	1/4	522.33	1/4	192.61	1/4	1/4	1/4		1/4	
1/2	2,163.66	1/2	1,834.01	1/2	1,504.25	1/2	1,174.49	1/2	845.06	1/2	515.46	1/2	185.74	1/2	1/2	1/2		1/2	
3/4	2,156.79	3/4	1,827.14	3/4	1,497.38	3/4	1,167.62	3/4	838.20	3/4	508.59	3/4	178.87	3/4	3/4	3/4		3/4	
3	2,149.92	3	1,820.27	3	1,490.51	3	1,160.75	3	831.34	3	501.72	3	172.00	3	3	3		3	
1/4	2,143.05	1/4	1,813.40	1/4	1,483.64	1/4	1,153.88	1/4	824.48	1/4	494.85	1/4	165.13	1/4	1/4	1/4		1/4	
1/2	2,136.18	1/2	1,806.53	1/2	1,476.77	1/2	1,147.01	1/2	817.62	1/2	487.98	1/2	158.26	1/2	1/2	1/2		1/2	
3/4	2,129.31	3/4	1,799.66	3/4	1,469.90	3/4	1,140.14	3/4	810.76	3/4	481.11	3/4	151.39	3/4	3/4	3/4		3/4	
4	2,122.44	4	1,792.79	4	1,463.03	4	1,133.27	4	803.91	4	474.24	4	144.52	4	4	4		4	
1/4	2,115.57	1/4	1,785.92	1/4	1,456.16	1/4	1,126.40	1/4	797.05	1/4	467.37	1/4	137.66	1/4	1/4	1/4		1/4	
1/2	2,108.70	1/2	1,779.05	1/2	1,449.29	1/2	1,119.53	1/2	790.19	1/2	460.50	1/2	130.79	1/2	1/2	1/2		1/2	
3/4	2,101.83	3/4	1,772.18	3/4	1,442.42	3/4	1,112.66	3/4	783.33	3/4	453.63	3/4	123.92	3/4	3/4	3/4		3/4	
5	2,094.96	5	1,765.31	5	1,435.55	5	1,105.79	5	776.47	5	446.76	5	117.06	5	5	5		5	
1/4	2,088.09	1/4	1,758.44	1/4	1,428.68	1/4	1,098.92	1/4	769.61	1/4	439.89	1/4	110.21	1/4	1/4	1/4		1/4	
1/2	2,081.23	1/2	1,751.57	1/2	1,421.81	1/2	1,092.05	1/2	762.75	1/2	433.02	1/2	103.35	1/2	1/2	1/2		1/2	
3/4	2,074.36	3/4	1,744.70	3/4	1,414.94	3/4	1,085.18	3/4	755.89	3/4	426.15	3/4	96.50	3/4	3/4	3/4		3/4	
6	2,067.49	6	1,737.83	6	1,408.07	6	1,078.31	6	749.03	6	419.28	6	89.65	6	6	6		6	
1/4	2,060.63	1/4	1,730.96	1/4	1,401.20	1/4	1,071.44	1/4	742.16	1/4	412.41	1/4	82.98	1/4	1/4	1/4		1/4	
1/2	2,053.76	1/2	1,724.09	1/2	1,394.33	1/2	1,064.57	1/2	735.29	1/2	405.54	1/2	76.31	1/2	1/2	1/2		1/2	
3/4	2,046.90	3/4	1,717.22	3/4	1,387.46	3/4	1,057.70	3/4	728.42	3/4	398.67	3/4	69.64	3/4	3/4	3/4		3/4	
7	2,040.03	7	1,710.35	7	1,380.59	7	1,050.83	7	721.55	7	391.80	7	62.96	7	7	7		7	
1/4	2,033.16	1/4	1,703.48	1/4	1,373.72	1/4	1,043.97	1/4	714.68	1/4	384.94	1/4	57.13	1/4	1/4	1/4		1/4	
1/2	2,026.30	1/2	1,696.61	1/2	1,366.85	1/2	1,037.10	1/2	707.81	1/2	378.07	1/2	51.29	1/2	1/2	1/2		1/2	
3/4	2,019.43	3/4	1,689.74	3/4	1,359.98	3/4	1,030.23	3/4	700.94	3/4	371.20	3/4	45.45	3/4	3/4	3/4		3/4	
8	2,012.56	8	1,682.87	8	1,353.11	8	1,023.37	8	694.07	8	364.33	8	39.61	8	8	8		8	
1/4	2,005.70	1/4	1,676.00	1/4	1,346.24	1/4	1,016.51	1/4	687.20	1/4	357.46	1/4	35.15	1/4	1/4	1/4		1/4	
1/2	1,998.83	1/2	1,669.13	1/2	1,339.37	1/2	1,009.65	1/2	680.33	1/2	350.60	1/2	30.68	1/2	1/2	1/2		1/2	
3/4	1,991.97	3/4	1,662.26	3/4	1,332.50	3/4	1,002.79	3/4	673.46	3/4	343.73	3/4	26.22	3/4	3/4	3/4		3/4	
9	1,985.10	9	1,655.39	9	1,325.63	9	995.93	9	666.59	9	336.86	9	21.76	9	9	9		9	
1/4	1,978.23	1/4	1,648.52	1/4	1,318.76	1/4	989.08	1/4	659.72	1/4	330.00	1/4		1/4	1/4	1/4		1/4	
1/2	1,971.37	1/2	1,641.65	1/2	1,311.89	1/2	982.22	1/2	652.85	1/2	323.13	1/2		1/2	1/2	1/2		1/2	
3/4	1,964.50	3/4	1,634.78	3/4	1,305.02	3/4	975.36	3/4	645.98	3/4	316.26	3/4		3/4	3/4	3/4		3/4	
10	1,957.63	10	1,627.91	10	1,298.15	10	968.50	10	639.11	10	309.40	10		10	10	10		10	
1/4	1,950.77	1/4	1,621.04	1/4	1,291.28	1/4	961.64	1/4	632.24	1/4	302.53	1/4		1/4	1/4	1/4		1/4	
1/2	1,943.90	1/2	1,614.17	1/2	1,284.41	1/2	954.78	1/2	625.37	1/2	295.66	1/2		1/2	1/2	1/2		1/2	
3/4	1,937.03	3/4	1,607.30	3/4	1,277.54	3/4	947.93	3/4	618.50	3/4	288.79	3/4		3/4	3/4	3/4		3/4	
11	1,930.17	11	1,600.43	11	1,270.67	11	941.07	11	611.64	11	281.92	11		11	11	11		11	
1/4	1,923.30	1/4	1,593.56	1/4	1,263.80	1/4	934.21	1/4	604.77	1/4	275.05	1/4		1/4	1/4	1/4		1/4	
1/2	1,916.44	1/2	1,586.69	1/2	1,256.93	1/2	927.35	1/2	597.90	1/2	268.18	1/2		1/2	1/2	1/2		1/2	
3/4	1,909.57	3/4	1,579.82	3/4	1,250.06	3/4	920.49	3/4	591.03	3/4	261.31	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/23/2013 CL - SW
CALCULATED: 03/24/2013 CL
PRINTED: 03/24/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2013

PRECISION MEASUREMENT
& ANALYSIS, INC.
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<http://www.pmacorp.net>



BARGE "CTCO 251"

3 STBD 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	4,418.57	0	4,208.35	0	3,985.88	0	3,758.39	0	3,518.16	0	3,189.36	0	2,861.52	0	2,532.78
1/4		1/4	4,607.73	1/4	4,414.31	1/4	4,203.82	1/4	3,981.14	1/4	3,753.65	1/4	3,511.29	1/4	3,182.51	1/4	2,854.67	1/4	2,525.93
1/2		1/2	4,604.93	1/2	4,410.06	1/2	4,199.29	1/2	3,976.41	1/2	3,748.91	1/2	3,504.43	1/2	3,175.66	1/2	2,847.82	1/2	2,519.07
3/4		3/4	4,602.14	3/4	4,405.80	3/4	4,194.77	3/4	3,971.67	3/4	3,744.17	3/4	3,497.57	3/4	3,168.81	3/4	2,840.97	3/4	2,512.22
1		1	4,598.66	1	4,401.52	1	4,190.22	1	3,966.93	1	3,739.44	1	3,490.71	1	3,161.96	1	2,834.12	1	2,505.37
1/4		1/4	4,595.18	1/4	4,397.24	1/4	4,185.68	1/4	3,962.19	1/4	3,734.70	1/4	3,483.85	1/4	3,155.11	1/4	2,827.28	1/4	2,498.52
1/2		1/2	4,591.69	1/2	4,392.96	1/2	4,181.13	1/2	3,957.45	1/2	3,729.96	1/2	3,476.99	1/2	3,148.27	1/2	2,820.43	1/2	2,491.66
3/4		3/4	4,588.21	3/4	4,388.68	3/4	4,176.59	3/4	3,952.71	3/4	3,725.22	3/4	3,470.13	3/4	3,141.42	3/4	2,813.58	3/4	2,484.81
2		2	4,584.20	2	4,384.39	2	4,172.02	2	3,947.97	2	3,720.48	2	3,463.28	2	3,134.58	2	2,806.73	2	2,477.96
1/4		1/4	4,580.18	1/4	4,380.09	1/4	4,167.46	1/4	3,943.23	1/4	3,715.74	1/4	3,456.43	1/4	3,127.74	1/4	2,799.88	1/4	2,471.10
1/2		1/2	4,576.16	1/2	4,375.79	1/2	4,162.90	1/2	3,938.49	1/2	3,711.00	1/2	3,449.58	1/2	3,120.90	1/2	2,793.04	1/2	2,464.25
3/4		3/4	4,572.15	3/4	4,371.49	3/4	4,158.33	3/4	3,933.75	3/4	3,706.26	3/4	3,442.74	3/4	3,114.06	3/4	2,786.19	3/4	2,457.40
3		3	4,568.11	3	4,367.18	3	4,153.75	3	3,929.01	3	3,701.52	3	3,435.89	3	3,107.25	3	2,779.34	3	2,450.55
1/4		1/4	4,564.08	1/4	4,362.86	1/4	4,149.17	1/4	3,924.27	1/4	3,696.78	1/4	3,429.04	1/4	3,100.44	1/4	2,772.49	1/4	2,443.69
1/2		1/2	4,560.04	1/2	4,358.55	1/2	4,144.58	1/2	3,919.53	1/2	3,692.04	1/2	3,422.19	1/2	3,093.63	1/2	2,765.64	1/2	2,436.84
3/4		3/4	4,556.01	3/4	4,354.23	3/4	4,140.00	3/4	3,914.79	3/4	3,687.30	3/4	3,415.34	3/4	3,086.81	3/4	2,758.80	3/4	2,429.99
4		4	4,551.96	4	4,349.90	4	4,135.40	4	3,910.05	4	3,682.56	4	3,408.49	4	3,080.00	4	2,751.95	4	2,423.14
1/4		1/4	4,547.91	1/4	4,345.56	1/4	4,130.80	1/4	3,905.31	1/4	3,677.82	1/4	3,401.65	1/4	3,073.19	1/4	2,745.10	1/4	2,416.28
1/2		1/2	4,543.85	1/2	4,341.22	1/2	4,126.19	1/2	3,900.57	1/2	3,673.08	1/2	3,394.80	1/2	3,066.38	1/2	2,738.25	1/2	2,409.43
3/4		3/4	4,539.80	3/4	4,336.89	3/4	4,121.59	3/4	3,895.84	3/4	3,668.34	3/4	3,387.95	3/4	3,059.57	3/4	2,731.40	3/4	2,402.58
5		5	4,535.72	5	4,332.54	5	4,116.97	5	3,891.10	5	3,663.60	5	3,381.10	5	3,052.76	5	2,724.55	5	2,395.73
1/4		1/4	4,531.63	1/4	4,328.18	1/4	4,112.35	1/4	3,886.36	1/4	3,658.87	1/4	3,374.25	1/4	3,045.94	1/4	2,717.71	1/4	2,388.87
1/2		1/2	4,527.55	1/2	4,323.83	1/2	4,107.73	1/2	3,881.62	1/2	3,654.13	1/2	3,367.41	1/2	3,039.13	1/2	2,710.86	1/2	2,382.02
3/4		3/4	4,523.46	3/4	4,319.47	3/4	4,103.11	3/4	3,876.88	3/4	3,649.39	3/4	3,360.56	3/4	3,032.32	3/4	2,704.01	3/4	2,375.17
6		6	4,519.32	6	4,315.10	6	4,098.47	6	3,872.14	6	3,644.65	6	3,353.71	6	3,025.51	6	2,697.16	6	2,368.31
1/4		1/4	4,515.17	1/4	4,310.73	1/4	4,093.83	1/4	3,867.40	1/4	3,639.91	1/4	3,346.86	1/4	3,018.70	1/4	2,690.31	1/4	2,361.46
1/2		1/2	4,511.02	1/2	4,306.35	1/2	4,089.19	1/2	3,862.66	1/2	3,635.17	1/2	3,340.01	1/2	3,011.88	1/2	2,683.47	1/2	2,354.61
3/4		3/4	4,506.88	3/4	4,301.98	3/4	4,084.55	3/4	3,857.92	3/4	3,630.43	3/4	3,333.17	3/4	3,005.07	3/4	2,676.62	3/4	2,347.76
7		7	4,502.72	7	4,297.59	7	4,079.89	7	3,853.18	7	3,625.69	7	3,326.32	7	2,998.26	7	2,669.77	7	2,340.90
1/4		1/4	4,498.55	1/4	4,293.20	1/4	4,075.23	1/4	3,848.44	1/4	3,620.95	1/4	3,319.47	1/4	2,991.45	1/4	2,662.92	1/4	2,334.05
1/2		1/2	4,494.39	1/2	4,288.81	1/2	4,070.57	1/2	3,843.70	1/2	3,616.21	1/2	3,312.62	1/2	2,984.64	1/2	2,656.07	1/2	2,327.20
3/4		3/4	4,490.22	3/4	4,284.41	3/4	4,065.91	3/4	3,838.96	3/4	3,611.47	3/4	3,305.77	3/4	2,977.82	3/4	2,649.23	3/4	2,320.35
8		8	4,486.04	8	4,279.99	8	4,061.24	8	3,834.22	8	3,606.73	8	3,298.92	8	2,971.00	8	2,642.38	8	2,313.49
1/4		1/4	4,481.86	1/4	4,275.57	1/4	4,056.56	1/4	3,829.48	1/4	3,601.99	1/4	3,292.08	1/4	2,964.18	1/4	2,635.53	1/4	2,306.64
1/2		1/2	4,477.67	1/2	4,271.15	1/2	4,051.88	1/2	3,824.74	1/2	3,597.25	1/2	3,285.23	1/2	2,957.36	1/2	2,628.68	1/2	2,299.79
3/4		3/4	4,473.49	3/4	4,266.73	3/4	4,047.20	3/4	3,820.01	3/4	3,592.51	3/4	3,278.38	3/4	2,950.54	3/4	2,621.83	3/4	2,292.93
9		9	4,469.29	9	4,262.26	9	4,042.51	9	3,815.27	9	3,587.77	9	3,271.53	9	2,943.69	9	2,614.98	9	2,286.08
1/4		1/4	4,465.08	1/4	4,257.79	1/4	4,037.81	1/4	3,810.53	1/4	3,583.04	1/4	3,264.68	1/4	2,936.85	1/4	2,608.14	1/4	2,279.23
1/2		1/2	4,460.88	1/2	4,253.32	1/2	4,033.11	1/2	3,805.79	1/2	3,578.30	1/2	3,257.84	1/2	2,930.00	1/2	2,601.29	1/2	2,272.38
3/4		3/4	4,456.68	3/4	4,248.85	3/4	4,028.42	3/4	3,801.05	3/4	3,573.56	3/4	3,250.99	3/4	2,923.15	3/4	2,594.44	3/4	2,265.52
10		10	4,452.46	10	4,244.37	10	4,023.70	10	3,796.31	10	3,568.29	10	3,244.14	10	2,916.30	10	2,587.59	10	2,258.67
1/4		1/4	4,448.24	1/4	4,239.88	1/4	4,018.98	1/4	3,791.57	1/4	3,563.02	1/4	3,237.29	1/4	2,909.45	1/4	2,580.74	1/4	2,251.82
1/2		1/2	4,444.02	1/2	4,235.39	1/2	4,014.27	1/2	3,786.83	1/2	3,557.75	1/2	3,230.44	1/2	2,902.61	1/2	2,573.89	1/2	2,244.97
3/4		3/4	4,439.79	3/4	4,230.90	3/4	4,009.55	3/4	3,782.09	3/4	3,552.47	3/4	3,223.60	3/4	2,895.76	3/4	2,567.04	3/4	2,238.11
11		11	4,435.55	11	4,226.39	11	4,004.82	11	3,777.35	11	3,545.61	11	3,216.75	11	2,888.91	11	2,560.19	11	2,231.26
1/4		1/4	4,431.31	1/4	4,221.89	1/4	4,000.09	1/4	3,772.61	1/4	3,538.75	1/4	3,209.90	1/4	2,882.06	1/4	2,553.34	1/4	2,224.41
1/2		1/2	4,427.07	1/2	4,217.38	1/2	3,995.36	1/2	3,767.87	1/2	3,531.88	1/2	3,203.05	1/2	2,875.21	1/2	2,546.48	1/2	2,217.55
3/4		3/4	4,422.83	3/4	4,212.87	3/4	3,990.62	3/4	3,763.13	3/4	3,525.02	3/4	3,196.20	3/4	2,868.36	3/4	2,539.63	3/4	2,210.70

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 251"

3 STBD 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.	
0	2,203.85	0	1,875.05	0	1,546.35	0	1,217.65	0	896.94	0	576.94	0	247.53	0		0		0	
1/4	2,197.00	1/4	1,868.20	1/4	1,539.50	1/4	1,210.80	1/4	890.43	1/4	570.08	1/4	240.66	1/4	1/4		1/4		1/4
1/2	2,190.14	1/2	1,861.35	1/2	1,532.65	1/2	1,203.95	1/2	883.91	1/2	563.23	1/2	233.79	1/2	1/2		1/2		1/2
3/4	2,183.29	3/4	1,854.50	3/4	1,525.80	3/4	1,197.10	3/4	877.40	3/4	556.37	3/4	226.93	3/4	3/4		3/4		3/4
1	2,176.44	1	1,847.65	1	1,518.96	1	1,190.26	1	870.89	1	549.51	1	220.06	1	1		1		1
1/4	2,169.59	1/4	1,840.81	1/4	1,512.11	1/4	1,183.41	1/4	864.37	1/4	542.66	1/4	213.19	1/4	1/4		1/4		1/4
1/2	2,162.73	1/2	1,833.96	1/2	1,505.26	1/2	1,176.56	1/2	857.86	1/2	535.80	1/2	206.32	1/2	1/2		1/2		1/2
3/4	2,155.88	3/4	1,827.11	3/4	1,498.41	3/4	1,169.71	3/4	851.35	3/4	528.95	3/4	199.45	3/4	3/4		3/4		3/4
2	2,149.03	2	1,820.26	2	1,491.56	2	1,162.87	2	844.83	2	522.09	2	192.58	2	2		2		2
1/4	2,142.18	1/4	1,813.41	1/4	1,484.72	1/4	1,156.02	1/4	838.32	1/4	515.23	1/4	185.71	1/4	1/4		1/4		1/4
1/2	2,135.32	1/2	1,806.57	1/2	1,477.87	1/2	1,149.18	1/2	831.81	1/2	508.38	1/2	178.85	1/2	1/2		1/2		1/2
3/4	2,128.47	3/4	1,799.72	3/4	1,471.02	3/4	1,142.34	3/4	825.30	3/4	501.52	3/4	171.98	3/4	3/4		3/4		3/4
3	2,121.62	3	1,792.87	3	1,464.17	3	1,135.50	3	818.78	3	494.66	3	165.11	3	3		3		3
1/4	2,114.76	1/4	1,786.02	1/4	1,457.32	1/4	1,128.67	1/4	812.27	1/4	487.81	1/4	158.24	1/4	1/4		1/4		1/4
1/2	2,107.91	1/2	1,779.18	1/2	1,450.48	1/2	1,121.83	1/2	805.76	1/2	480.95	1/2	151.37	1/2	1/2		1/2		1/2
3/4	2,101.06	3/4	1,772.33	3/4	1,443.63	3/4	1,115.00	3/4	799.24	3/4	474.09	3/4	144.51	3/4	3/4		3/4		3/4
4	2,094.21	4	1,765.48	4	1,436.78	4	1,108.16	4	792.73	4	467.23	4	137.64	4	4		4		4
1/4	2,087.35	1/4	1,758.63	1/4	1,429.93	1/4	1,101.33	1/4	786.22	1/4	460.38	1/4	130.78	1/4	1/4		1/4		1/4
1/2	2,080.50	1/2	1,751.78	1/2	1,423.08	1/2	1,094.49	1/2	779.70	1/2	453.52	1/2	123.91	1/2	1/2		1/2		1/2
3/4	2,073.65	3/4	1,744.94	3/4	1,416.24	3/4	1,087.66	3/4	773.19	3/4	446.66	3/4	117.05	3/4	3/4		3/4		3/4
5	2,066.80	5	1,738.09	5	1,409.39	5	1,080.84	5	766.68	5	439.80	5	110.20	5	5		5		5
1/4	2,059.95	1/4	1,731.24	1/4	1,402.54	1/4	1,074.01	1/4	760.17	1/4	432.93	1/4	103.34	1/4	1/4		1/4		1/4
1/2	2,053.09	1/2	1,724.39	1/2	1,395.69	1/2	1,067.19	1/2	753.65	1/2	426.07	1/2	96.49	1/2	1/2		1/2		1/2
3/4	2,046.24	3/4	1,717.54	3/4	1,388.85	3/4	1,060.37	3/4	747.14	3/4	419.20	3/4	89.64	3/4	3/4		3/4		3/4
6	2,039.40	6	1,710.70	6	1,382.00	6	1,053.65	6	740.55	6	412.34	6	82.97	6	6		6		6
1/4	2,032.55	1/4	1,703.85	1/4	1,375.15	1/4	1,046.93	1/4	733.97	1/4	405.47	1/4	76.30	1/4	1/4		1/4		1/4
1/2	2,025.70	1/2	1,697.00	1/2	1,368.30	1/2	1,040.21	1/2	727.38	1/2	398.60	1/2	69.63	1/2	1/2		1/2		1/2
3/4	2,018.85	3/4	1,690.15	3/4	1,361.45	3/4	1,033.50	3/4	720.79	3/4	391.73	3/4	62.96	3/4	3/4		3/4		3/4
7	2,012.00	7	1,683.30	7	1,354.61	7	1,027.00	7	713.97	7	384.86	7	57.13	7	7		7		7
1/4	2,005.16	1/4	1,676.46	1/4	1,347.76	1/4	1,020.50	1/4	707.15	1/4	378.00	1/4	51.29	1/4	1/4		1/4		1/4
1/2	1,998.31	1/2	1,669.61	1/2	1,340.91	1/2	1,014.00	1/2	700.33	1/2	371.13	1/2	45.45	1/2	1/2		1/2		1/2
3/4	1,991.46	3/4	1,662.76	3/4	1,334.06	3/4	1,007.50	3/4	693.50	3/4	364.26	3/4	39.62	3/4	3/4		3/4		3/4
8	1,984.61	8	1,655.91	8	1,327.21	8	1,001.00	8	686.65	8	357.40	8	35.15	8	8		8		8
1/4	1,977.76	1/4	1,649.07	1/4	1,320.37	1/4	994.50	1/4	679.79	1/4	350.53	1/4	30.69	1/4	1/4		1/4		1/4
1/2	1,970.92	1/2	1,642.22	1/2	1,313.52	1/2	988.00	1/2	672.93	1/2	343.67	1/2	26.23	1/2	1/2		1/2		1/2
3/4	1,964.07	3/4	1,635.37	3/4	1,306.67	3/4	981.50	3/4	666.08	3/4	336.80	3/4	21.76	3/4	3/4		3/4		3/4
9	1,957.22	9	1,628.52	9	1,299.82	9	975.00	9	659.22	9	329.94	9		9	9		9		9
1/4	1,950.37	1/4	1,621.67	1/4	1,292.97	1/4	968.51	1/4	652.36	1/4	323.07	1/4		1/4	1/4		1/4		1/4
1/2	1,943.52	1/2	1,614.83	1/2	1,286.13	1/2	962.01	1/2	645.51	1/2	316.21	1/2		1/2	1/2		1/2		1/2
3/4	1,936.68	3/4	1,607.98	3/4	1,279.28	3/4	955.51	3/4	638.65	3/4	309.34	3/4		3/4	3/4		3/4		3/4
10	1,929.83	10	1,601.13	10	1,272.43	10	949.01	10	631.79	10	302.48	10		10	10		10		10
1/4	1,922.98	1/4	1,594.28	1/4	1,265.58	1/4	942.51	1/4	624.94	1/4	295.61	1/4		1/4	1/4		1/4		1/4
1/2	1,916.13	1/2	1,587.43	1/2	1,258.73	1/2	936.01	1/2	618.08	1/2	288.74	1/2		1/2	1/2		1/2		1/2
3/4	1,909.29	3/4	1,580.59	3/4	1,251.89	3/4	929.50	3/4	611.22	3/4	281.87	3/4		3/4	3/4		3/4		3/4
11	1,902.44	11	1,573.74	11	1,245.04	11	922.99	11	604.37	11	275.00	11		11	11		11		11
1/4	1,895.59	1/4	1,566.89	1/4	1,238.19	1/4	916.48	1/4	597.51	1/4	268.14	1/4		1/4	1/4		1/4		1/4
1/2	1,888.74	1/2	1,560.04	1/2	1,231.34	1/2	909.96	1/2	590.65	1/2	261.27	1/2		1/2	1/2		1/2		1/2
3/4	1,881.89	3/4	1,553.19	3/4	1,224.50	3/4	903.45	3/4	583.80	3/4	254.40	3/4		3/4	3/4		3/4		3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/23/2013 CL - SW
CALCULATED: 03/24/2013 CL
PRINTED: 03/24/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2013

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