



BARGE "CTCo 318"

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	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
1 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
2 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
2 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
3 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8
3 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

THE CORRECTION FOR 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 3'-11 7/8"

LENGTH BETWEEN DRAFT MARKS: 236'-03"

September 24, 2013

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "CTCo 318"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 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
1/4		1/4	5,102.95	1/4	4,767.37	1/4	4,426.71	1/4	4,065.46	1/4	3,698.68	1/4	3,331.57	1/4	2,964.20	1/4	2,596.67	1/4	2,229.14
1/2		1/2	5,096.90	1/2	4,760.52	1/2	4,419.39	1/2	4,057.82	1/2	3,691.04	1/2	3,323.92	1/2	2,956.55	1/2	2,589.02	1/2	2,221.48
3/4		3/4	5,090.84	3/4	4,753.67	3/4	4,412.07	3/4	4,050.18	3/4	3,683.40	3/4	3,316.26	3/4	2,948.89	3/4	2,581.36	3/4	2,213.83
1		1	5,083.64	1	4,746.77	1	4,404.70	1	4,042.54	1	3,675.76	1	3,308.61	1	2,941.23	1	2,573.70	1	2,206.17
1/4		1/4	5,076.44	1/4	4,739.86	1/4	4,397.33	1/4	4,034.90	1/4	3,668.11	1/4	3,300.96	1/4	2,933.58	1/4	2,566.04	1/4	2,198.51
1/2		1/2	5,069.23	1/2	4,732.96	1/2	4,389.96	1/2	4,027.26	1/2	3,660.47	1/2	3,293.31	1/2	2,925.92	1/2	2,558.39	1/2	2,190.86
3/4		3/4	5,062.03	3/4	4,726.05	3/4	4,382.60	3/4	4,019.61	3/4	3,652.83	3/4	3,285.65	3/4	2,918.26	3/4	2,550.73	3/4	2,183.20
2		2	5,054.45	2	4,719.10	2	4,375.20	2	4,011.97	2	3,645.19	2	3,278.00	2	2,910.61	2	2,543.07	2	2,175.54
1/4		1/4	5,046.86	1/4	4,712.14	1/4	4,367.79	1/4	4,004.33	1/4	3,637.55	1/4	3,270.35	1/4	2,902.95	1/4	2,535.42	1/4	2,167.89
1/2		1/2	5,039.28	1/2	4,705.18	1/2	4,360.39	1/2	3,996.69	1/2	3,629.91	1/2	3,262.69	1/2	2,895.29	1/2	2,527.76	1/2	2,160.23
3/4		3/4	5,031.70	3/4	4,698.22	3/4	4,352.99	3/4	3,989.05	3/4	3,622.27	3/4	3,255.04	3/4	2,887.63	3/4	2,520.10	3/4	2,152.57
3		3	5,024.11	3	4,691.23	3	4,345.56	3	3,981.41	3	3,614.63	3	3,247.39	3	2,879.98	3	2,512.45	3	2,144.92
1/4		1/4	5,016.53	1/4	4,684.23	1/4	4,338.12	1/4	3,973.77	1/4	3,606.98	1/4	3,239.74	1/4	2,872.32	1/4	2,504.79	1/4	2,137.26
1/2		1/2	5,008.94	1/2	4,677.23	1/2	4,330.69	1/2	3,966.12	1/2	3,599.34	1/2	3,232.08	1/2	2,864.66	1/2	2,497.13	1/2	2,129.60
3/4		3/4	5,001.36	3/4	4,670.24	3/4	4,323.25	3/4	3,958.48	3/4	3,591.70	3/4	3,224.43	3/4	2,857.01	3/4	2,489.48	3/4	2,121.94
4		4	4,993.78	4	4,663.20	4	4,315.78	4	3,950.84	4	3,584.06	4	3,216.78	4	2,849.35	4	2,481.82	4	2,114.29
1/4		1/4	4,986.19	1/4	4,656.17	1/4	4,308.32	1/4	3,943.20	1/4	3,576.42	1/4	3,209.12	1/4	2,841.69	1/4	2,474.16	1/4	2,106.63
1/2		1/2	4,978.61	1/2	4,649.14	1/2	4,300.85	1/2	3,935.56	1/2	3,568.78	1/2	3,201.47	1/2	2,834.04	1/2	2,466.51	1/2	2,098.97
3/4		3/4	4,971.03	3/4	4,642.10	3/4	4,293.38	3/4	3,927.92	3/4	3,561.14	3/4	3,193.82	3/4	2,826.38	3/4	2,458.85	3/4	2,091.32
5		5	4,963.92	5	4,635.03	5	4,285.87	5	3,920.28	5	3,553.49	5	3,186.17	5	2,818.72	5	2,451.19	5	2,083.66
1/4		1/4	4,956.81	1/4	4,627.97	1/4	4,278.37	1/4	3,912.64	1/4	3,545.84	1/4	3,178.51	1/4	2,811.07	1/4	2,443.53	1/4	2,076.00
1/2		1/2	4,949.71	1/2	4,620.90	1/2	4,270.86	1/2	3,904.99	1/2	3,538.19	1/2	3,170.86	1/2	2,803.41	1/2	2,435.88	1/2	2,068.35
3/4		3/4	4,942.60	3/4	4,613.83	3/4	4,263.35	3/4	3,897.35	3/4	3,530.55	3/4	3,163.21	3/4	2,795.75	3/4	2,428.22	3/4	2,060.69
6		6	4,935.96	6	4,606.73	6	4,255.81	6	3,889.71	6	3,522.89	6	3,155.55	6	2,788.09	6	2,420.56	6	2,053.03
1/4		1/4	4,929.32	1/4	4,599.63	1/4	4,248.26	1/4	3,882.07	1/4	3,515.24	1/4	3,147.90	1/4	2,780.44	1/4	2,412.91	1/4	2,045.38
1/2		1/2	4,922.67	1/2	4,592.53	1/2	4,240.72	1/2	3,874.43	1/2	3,507.59	1/2	3,140.25	1/2	2,772.78	1/2	2,405.25	1/2	2,037.72
3/4		3/4	4,916.03	3/4	4,585.43	3/4	4,233.17	3/4	3,866.79	3/4	3,499.93	3/4	3,132.60	3/4	2,765.12	3/4	2,397.59	3/4	2,030.06
7		7	4,909.35	7	4,578.29	7	4,225.60	7	3,859.15	7	3,492.28	7	3,124.94	7	2,757.47	7	2,389.94	7	2,022.40
1/4		1/4	4,902.68	1/4	4,571.16	1/4	4,218.02	1/4	3,851.51	1/4	3,484.63	1/4	3,117.29	1/4	2,749.81	1/4	2,382.28	1/4	2,014.75
1/2		1/2	4,896.00	1/2	4,564.02	1/2	4,210.44	1/2	3,843.86	1/2	3,476.98	1/2	3,109.64	1/2	2,742.15	1/2	2,374.62	1/2	2,007.09
3/4		3/4	4,889.32	3/4	4,556.89	3/4	4,202.86	3/4	3,836.22	3/4	3,469.32	3/4	3,101.98	3/4	2,734.50	3/4	2,366.97	3/4	1,999.43
8		8	4,882.61	8	4,549.72	8	4,195.25	8	3,828.58	8	3,461.67	8	3,094.33	8	2,726.84	8	2,359.31	8	1,991.78
1/4		1/4	4,875.90	1/4	4,542.55	1/4	4,187.64	1/4	3,820.94	1/4	3,454.02	1/4	3,086.68	1/4	2,719.18	1/4	2,351.65	1/4	1,984.12
1/2		1/2	4,869.19	1/2	4,535.38	1/2	4,180.02	1/2	3,813.30	1/2	3,446.36	1/2	3,079.03	1/2	2,711.53	1/2	2,343.99	1/2	1,976.46
3/4		3/4	4,862.48	3/4	4,528.21	3/4	4,172.41	3/4	3,805.66	3/4	3,438.71	3/4	3,071.37	3/4	2,703.87	3/4	2,336.34	3/4	1,968.81
9		9	4,855.73	9	4,521.01	9	4,164.78	9	3,798.02	9	3,431.06	9	3,063.72	9	2,696.21	9	2,328.68	9	1,961.15
1/4		1/4	4,848.98	1/4	4,513.81	1/4	4,157.14	1/4	3,790.38	1/4	3,423.41	1/4	3,056.07	1/4	2,688.56	1/4	2,321.02	1/4	1,953.49
1/2		1/2	4,842.23	1/2	4,506.60	1/2	4,149.51	1/2	3,782.73	1/2	3,415.75	1/2	3,048.41	1/2	2,680.90	1/2	2,313.37	1/2	1,945.84
3/4		3/4	4,835.48	3/4	4,499.40	3/4	4,141.87	3/4	3,775.09	3/4	3,408.10	3/4	3,040.76	3/4	2,673.24	3/4	2,305.71	3/4	1,938.18
10		10	4,828.69	10	4,492.17	10	4,134.23	10	3,767.45	10	3,400.45	10	3,033.11	10	2,665.58	10	2,298.05	10	1,930.52
1/4		1/4	4,821.91	1/4	4,484.93	1/4	4,126.59	1/4	3,759.81	1/4	3,392.79	1/4	3,025.45	1/4	2,657.93	1/4	2,290.40	1/4	1,922.87
1/2		1/2	4,815.13	1/2	4,477.69	1/2	4,118.95	1/2	3,752.17	1/2	3,385.14	1/2	3,017.80	1/2	2,650.27	1/2	2,282.74	1/2	1,915.21
3/4		3/4	4,808.34	3/4	4,470.46	3/4	4,111.31	3/4	3,744.53	3/4	3,377.49	3/4	3,010.15	3/4	2,642.61	3/4	2,275.08	3/4	1,907.55
11		11	4,801.53	11	4,463.18	11	4,103.67	11	3,736.89	11	3,369.84	11	3,002.49	11	2,634.96	11	2,267.43	11	1,899.89
1/4		1/4	4,794.71	1/4	4,455.91	1/4	4,096.03	1/4	3,729.24	1/4	3,362.18	1/4	2,994.83	1/4	2,627.30	1/4	2,259.77	1/4	1,892.24
1/2		1/2	4,787.89	1/2	4,448.63	1/2	4,088.39	1/2	3,721.60	1/2	3,354.53	1/2	2,987.18	1/2	2,619.64	1/2	2,252.11	1/2	1,884.58
3/4		3/4	4,781.07	3/4	4,441.36	3/4	4,080.74	3/4	3,713.96	3/4	3,346.88	3/4	2,979.52	3/4	2,611.99	3/4	2,244.45	3/4	1,876.92

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 AT 2" DIAMETER OPENING ON "HERMETIC" CLOSED GAUGING VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 44'-03" 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 318"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,869.27	0	1,501.74	0	1,134.29	0	768.89	0	404.77	0	82.11	0		0		0		0	
1/4	1,861.61	1/4	1,494.08	1/4	1,126.67	1/4	761.23	1/4	397.52	1/4	75.99	1/4		1/4		1/4		1/4	
1/2	1,853.95	1/2	1,486.42	1/2	1,119.04	1/2	753.57	1/2	390.28	1/2	69.87	1/2		1/2		1/2		1/2	
3/4	1,846.30	3/4	1,478.76	3/4	1,111.41	3/4	745.92	3/4	383.03	3/4	63.74	3/4		3/4		3/4		3/4	
1	1,838.64	1	1,471.11	1	1,103.79	1	738.26	1	375.87	1	58.19	1		1		1		1	
1/4	1,830.98	1/4	1,463.45	1/4	1,096.17	1/4	730.60	1/4	368.71	1/4	52.63	1/4		1/4		1/4		1/4	
1/2	1,823.33	1/2	1,455.79	1/2	1,088.55	1/2	722.95	1/2	361.56	1/2	47.07	1/2		1/2		1/2		1/2	
3/4	1,815.67	3/4	1,448.14	3/4	1,080.93	3/4	715.29	3/4	354.40	3/4	41.51	3/4		3/4		3/4		3/4	
2	1,808.01	2	1,440.48	2	1,073.32	2	707.63	2	347.33	2	37.02	2		2		2		2	
1/4	1,800.35	1/4	1,432.82	1/4	1,065.70	1/4	699.98	1/4	340.27	1/4	32.52	1/4		1/4		1/4		1/4	
1/2	1,792.70	1/2	1,425.17	1/2	1,058.09	1/2	692.32	1/2	333.20	1/2	28.03	1/2		1/2		1/2		1/2	
3/4	1,785.04	3/4	1,417.51	3/4	1,050.48	3/4	684.66	3/4	326.14	3/4	23.53	3/4		3/4		3/4		3/4	
3	1,777.38	3	1,409.85	3	1,042.87	3	677.01	3	319.16	3		3		3		3		3	
1/4	1,769.73	1/4	1,402.20	1/4	1,035.26	1/4	669.35	1/4	312.19	1/4		1/4		1/4		1/4		1/4	
1/2	1,762.07	1/2	1,394.54	1/2	1,027.65	1/2	661.69	1/2	305.21	1/2		1/2		1/2		1/2		1/2	
3/4	1,754.41	3/4	1,386.88	3/4	1,020.04	3/4	654.04	3/4	298.23	3/4		3/4		3/4		3/4		3/4	
4	1,746.76	4	1,379.23	4	1,012.43	4	646.38	4	291.35	4		4		4		4		4	
1/4	1,739.10	1/4	1,371.57	1/4	1,004.83	1/4	638.72	1/4	284.47	1/4		1/4		1/4		1/4		1/4	
1/2	1,731.44	1/2	1,363.91	1/2	997.22	1/2	631.07	1/2	277.58	1/2		1/2		1/2		1/2		1/2	
3/4	1,723.79	3/4	1,356.25	3/4	989.61	3/4	623.41	3/4	270.70	3/4		3/4		3/4		3/4		3/4	
5	1,716.13	5	1,348.60	5	982.01	5	615.75	5	263.90	5		5		5		5		5	
1/4	1,708.47	1/4	1,340.94	1/4	974.40	1/4	608.10	1/4	257.11	1/4		1/4		1/4		1/4		1/4	
1/2	1,700.82	1/2	1,333.28	1/2	966.80	1/2	600.44	1/2	250.32	1/2		1/2		1/2		1/2		1/2	
3/4	1,693.16	3/4	1,325.63	3/4	959.19	3/4	592.78	3/4	243.52	3/4		3/4		3/4		3/4		3/4	
6	1,685.50	6	1,317.97	6	951.58	6	585.13	6	236.82	6		6		6		6		6	
1/4	1,677.84	1/4	1,310.31	1/4	943.98	1/4	577.47	1/4	230.12	1/4		1/4		1/4		1/4		1/4	
1/2	1,670.19	1/2	1,302.66	1/2	936.37	1/2	569.81	1/2	223.42	1/2		1/2		1/2		1/2		1/2	
3/4	1,662.53	3/4	1,295.00	3/4	928.77	3/4	562.16	3/4	216.71	3/4		3/4		3/4		3/4		3/4	
7	1,654.87	7	1,287.34	7	921.16	7	554.51	7	210.10	7		7		7		7		7	
1/4	1,647.22	1/4	1,279.69	1/4	913.55	1/4	546.86	1/4	203.49	1/4		1/4		1/4		1/4		1/4	
1/2	1,639.56	1/2	1,272.03	1/2	905.95	1/2	539.22	1/2	196.88	1/2		1/2		1/2		1/2		1/2	
3/4	1,631.90	3/4	1,264.37	3/4	898.34	3/4	531.57	3/4	190.26	3/4		3/4		3/4		3/4		3/4	
8	1,624.25	8	1,256.71	8	890.74	8	523.97	8	183.74	8		8		8		8		8	
1/4	1,616.59	1/4	1,249.06	1/4	883.13	1/4	516.37	1/4	177.22	1/4		1/4		1/4		1/4		1/4	
1/2	1,608.93	1/2	1,241.40	1/2	875.52	1/2	508.77	1/2	170.70	1/2		1/2		1/2		1/2		1/2	
3/4	1,601.28	3/4	1,233.74	3/4	867.92	3/4	501.17	3/4	164.18	3/4		3/4		3/4		3/4		3/4	
9	1,593.62	9	1,226.09	9	860.31	9	493.65	9	157.75	9		9		9		9		9	
1/4	1,585.96	1/4	1,218.43	1/4	852.71	1/4	486.13	1/4	151.33	1/4		1/4		1/4		1/4		1/4	
1/2	1,578.30	1/2	1,210.77	1/2	845.10	1/2	478.61	1/2	144.90	1/2		1/2		1/2		1/2		1/2	
3/4	1,570.65	3/4	1,203.12	3/4	837.49	3/4	471.09	3/4	138.47	3/4		3/4		3/4		3/4		3/4	
10	1,562.99	10	1,195.46	10	829.89	10	463.66	10	132.14	10		10		10		10		10	
1/4	1,555.33	1/4	1,187.80	1/4	822.28	1/4	456.23	1/4	125.81	1/4		1/4		1/4		1/4		1/4	
1/2	1,547.68	1/2	1,180.15	1/2	814.68	1/2	448.80	1/2	119.48	1/2		1/2		1/2		1/2		1/2	
3/4	1,540.02	3/4	1,172.49	3/4	807.07	3/4	441.37	3/4	113.15	3/4		3/4		3/4		3/4		3/4	
11	1,532.36	11	1,164.85	11	799.44	11	434.04	11	106.92	11		11		11		11		11	
1/4	1,524.71	1/4	1,157.20	1/4	791.81	1/4	426.70	1/4	100.69	1/4		1/4		1/4		1/4		1/4	
1/2	1,517.05	1/2	1,149.56	1/2	784.17	1/2	419.36	1/2	94.46	1/2		1/2		1/2		1/2		1/2	
3/4	1,509.39	3/4	1,141.92	3/4	776.54	3/4	412.02	3/4	88.23	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/23/2013 CL
CALCULATED: 09/23/2013 CL
PRINTED: 09/24/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2013

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "CTCo 318"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 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	4,772.84	0	4,432.50	0	4,071.40	0	3,704.45	0	3,337.50	0	2,970.54	0	2,603.40	0	2,236.25
1/4		1/4	5,101.72	1/4	4,765.99	1/4	4,425.17	1/4	4,063.76	1/4	3,696.81	1/4	3,329.86	1/4	2,962.89	1/4	2,595.75	1/4	2,228.60
1/2		1/2	5,095.66	1/2	4,759.14	1/2	4,417.85	1/2	4,056.11	1/2	3,689.16	1/2	3,322.21	1/2	2,955.24	1/2	2,588.10	1/2	2,220.96
3/4		3/4	5,089.60	3/4	4,752.28	3/4	4,410.52	3/4	4,048.47	3/4	3,681.52	3/4	3,314.57	3/4	2,947.59	3/4	2,580.45	3/4	2,213.31
1		1	5,082.40	1	4,745.37	1	4,403.15	1	4,040.82	1	3,673.87	1	3,306.92	1	2,939.94	1	2,572.80	1	2,205.66
1/4		1/4	5,075.19	1/4	4,738.47	1/4	4,395.78	1/4	4,033.18	1/4	3,666.23	1/4	3,299.28	1/4	2,932.29	1/4	2,565.15	1/4	2,198.01
1/2		1/2	5,067.99	1/2	4,731.56	1/2	4,388.41	1/2	4,025.53	1/2	3,658.58	1/2	3,291.63	1/2	2,924.65	1/2	2,557.50	1/2	2,190.36
3/4		3/4	5,060.79	3/4	4,724.65	3/4	4,381.04	3/4	4,017.89	3/4	3,650.94	3/4	3,283.99	3/4	2,917.00	3/4	2,549.85	3/4	2,182.71
2		2	5,053.20	2	4,717.69	2	4,373.63	2	4,010.24	2	3,643.29	2	3,276.34	2	2,909.35	2	2,542.21	2	2,175.06
1/4		1/4	5,045.61	1/4	4,710.73	1/4	4,366.23	1/4	4,002.60	1/4	3,635.65	1/4	3,268.70	1/4	2,901.70	1/4	2,534.56	1/4	2,167.41
1/2		1/2	5,038.03	1/2	4,703.77	1/2	4,358.82	1/2	3,994.95	1/2	3,628.00	1/2	3,261.05	1/2	2,894.05	1/2	2,526.91	1/2	2,159.77
3/4		3/4	5,030.44	3/4	4,696.81	3/4	4,351.42	3/4	3,987.31	3/4	3,620.36	3/4	3,253.41	3/4	2,886.40	3/4	2,519.26	3/4	2,152.12
3		3	5,022.85	3	4,689.81	3	4,343.98	3	3,979.66	3	3,612.71	3	3,245.76	3	2,878.75	3	2,511.61	3	2,144.47
1/4		1/4	5,015.26	1/4	4,682.81	1/4	4,336.54	1/4	3,972.02	1/4	3,605.07	1/4	3,238.12	1/4	2,871.10	1/4	2,503.96	1/4	2,136.82
1/2		1/2	5,007.68	1/2	4,675.81	1/2	4,329.10	1/2	3,964.37	1/2	3,597.42	1/2	3,230.47	1/2	2,863.46	1/2	2,496.31	1/2	2,129.17
3/4		3/4	5,000.09	3/4	4,668.81	3/4	4,321.66	3/4	3,956.73	3/4	3,589.78	3/4	3,222.83	3/4	2,855.81	3/4	2,488.66	3/4	2,121.52
4		4	4,992.50	4	4,661.77	4	4,314.19	4	3,949.08	4	3,582.13	4	3,215.18	4	2,848.16	4	2,481.02	4	2,113.87
1/4		1/4	4,984.91	1/4	4,654.74	1/4	4,306.72	1/4	3,941.44	1/4	3,574.49	1/4	3,207.54	1/4	2,840.51	1/4	2,473.37	1/4	2,106.22
1/2		1/2	4,977.33	1/2	4,647.70	1/2	4,299.25	1/2	3,933.80	1/2	3,566.84	1/2	3,199.89	1/2	2,832.86	1/2	2,465.72	1/2	2,098.58
3/4		3/4	4,969.74	3/4	4,640.66	3/4	4,291.78	3/4	3,926.15	3/4	3,559.20	3/4	3,192.25	3/4	2,825.21	3/4	2,458.07	3/4	2,090.93
5		5	4,962.63	5	4,633.59	5	4,284.27	5	3,918.51	5	3,551.56	5	3,184.60	5	2,817.56	5	2,450.42	5	2,083.28
1/4		1/4	4,955.52	1/4	4,626.52	1/4	4,276.76	1/4	3,910.86	1/4	3,543.91	1/4	3,176.96	1/4	2,809.91	1/4	2,442.77	1/4	2,075.63
1/2		1/2	4,948.41	1/2	4,619.45	1/2	4,269.25	1/2	3,903.22	1/2	3,536.27	1/2	3,169.32	1/2	2,802.26	1/2	2,435.12	1/2	2,067.98
3/4		3/4	4,941.30	3/4	4,612.38	3/4	4,261.74	3/4	3,895.57	3/4	3,528.62	3/4	3,161.67	3/4	2,794.62	3/4	2,427.47	3/4	2,060.33
6		6	4,934.66	6	4,605.27	6	4,254.19	6	3,887.93	6	3,520.98	6	3,154.03	6	2,786.97	6	2,419.82	6	2,052.68
1/4		1/4	4,928.01	1/4	4,598.17	1/4	4,246.64	1/4	3,880.28	1/4	3,513.33	1/4	3,146.38	1/4	2,779.32	1/4	2,412.18	1/4	2,045.03
1/2		1/2	4,921.36	1/2	4,591.06	1/2	4,239.09	1/2	3,872.64	1/2	3,505.69	1/2	3,138.74	1/2	2,771.67	1/2	2,404.53	1/2	2,037.38
3/4		3/4	4,914.71	3/4	4,583.96	3/4	4,231.54	3/4	3,864.99	3/4	3,498.04	3/4	3,131.09	3/4	2,764.02	3/4	2,396.88	3/4	2,029.74
7		7	4,908.04	7	4,576.82	7	4,223.96	7	3,857.35	7	3,490.40	7	3,123.45	7	2,756.37	7	2,389.23	7	2,022.09
1/4		1/4	4,901.36	1/4	4,569.68	1/4	4,216.38	1/4	3,849.70	1/4	3,482.75	1/4	3,115.80	1/4	2,748.72	1/4	2,381.58	1/4	2,014.44
1/2		1/2	4,894.68	1/2	4,562.54	1/2	4,208.80	1/2	3,842.06	1/2	3,475.11	1/2	3,108.16	1/2	2,741.07	1/2	2,373.93	1/2	2,006.79
3/4		3/4	4,888.00	3/4	4,555.41	3/4	4,201.22	3/4	3,834.41	3/4	3,467.46	3/4	3,100.51	3/4	2,733.43	3/4	2,366.28	3/4	1,999.14
8		8	4,881.28	8	4,548.23	8	4,193.60	8	3,826.77	8	3,459.82	8	3,092.87	8	2,725.78	8	2,358.63	8	1,991.49
1/4		1/4	4,874.57	1/4	4,541.06	1/4	4,185.99	1/4	3,819.12	1/4	3,452.17	1/4	3,085.22	1/4	2,718.13	1/4	2,350.99	1/4	1,983.84
1/2		1/2	4,867.85	1/2	4,533.89	1/2	4,178.37	1/2	3,811.48	1/2	3,444.53	1/2	3,077.58	1/2	2,710.48	1/2	2,343.34	1/2	1,976.19
3/4		3/4	4,861.14	3/4	4,526.72	3/4	4,170.76	3/4	3,803.83	3/4	3,436.88	3/4	3,069.93	3/4	2,702.83	3/4	2,335.69	3/4	1,968.55
9		9	4,854.39	9	4,519.51	9	4,163.12	9	3,796.19	9	3,429.24	9	3,062.29	9	2,695.18	9	2,328.04	9	1,960.90
1/4		1/4	4,847.63	1/4	4,512.31	1/4	4,155.48	1/4	3,788.54	1/4	3,421.59	1/4	3,054.64	1/4	2,687.53	1/4	2,320.39	1/4	1,953.25
1/2		1/2	4,840.88	1/2	4,505.10	1/2	4,147.84	1/2	3,780.90	1/2	3,413.95	1/2	3,047.00	1/2	2,679.88	1/2	2,312.74	1/2	1,945.60
3/4		3/4	4,834.13	3/4	4,497.89	3/4	4,140.20	3/4	3,773.25	3/4	3,406.30	3/4	3,039.35	3/4	2,672.24	3/4	2,305.09	3/4	1,937.95
10		10	4,827.34	10	4,490.65	10	4,132.56	10	3,765.61	10	3,398.66	10	3,031.71	10	2,664.59	10	2,297.44	10	1,930.30
1/4		1/4	4,820.55	1/4	4,483.41	1/4	4,124.92	1/4	3,757.96	1/4	3,391.01	1/4	3,024.06	1/4	2,656.94	1/4	2,289.80	1/4	1,922.65
1/2		1/2	4,813.77	1/2	4,476.18	1/2	4,117.27	1/2	3,750.32	1/2	3,383.37	1/2	3,016.42	1/2	2,649.29	1/2	2,282.15	1/2	1,915.00
3/4		3/4	4,806.98	3/4	4,468.94	3/4	4,109.63	3/4	3,742.68	3/4	3,375.72	3/4	3,008.77	3/4	2,641.64	3/4	2,274.50	3/4	1,907.36
11		11	4,800.16	11	4,461.66	11	4,101.98	11	3,735.03	11	3,368.08	11	3,001.13	11	2,633.99	11	2,266.85	11	1,899.71
1/4		1/4	4,793.34	1/4	4,454.38	1/4	4,094.34	1/4	3,727.39	1/4	3,360.44	1/4	2,993.48	1/4	2,626.34	1/4	2,259.20	1/4	1,892.06
1/2		1/2	4,786.52	1/2	4,447.10	1/2	4,086.69	1/2	3,719.74	1/2	3,352.79	1/2	2,985.83	1/2	2,618.69	1/2	2,251.55	1/2	1,884.41
3/4		3/4	4,779.70	3/4	4,439.82	3/4	4,079.05	3/4	3,712.10	3/4	3,345.15	3/4	2,978.19	3/4	2,611.04	3/4	2,243.90	3/4	1,876.76

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 AT 2" DIAMETER OPENING ON "HERMETIC" CLOSED GAUGING VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 44'-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 318"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 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	1,869.11	0	1,501.97	0	1,134.83	0	768.18	0	404.52	0	82.15	0		0		0		0	
1/4	1,861.46	1/4	1,494.32	1/4	1,127.18	1/4	760.53	1/4	397.28	1/4	76.02	1/4		1/4		1/4		1/4	
1/2	1,853.81	1/2	1,486.67	1/2	1,119.53	1/2	752.88	1/2	390.04	1/2	69.90	1/2		1/2		1/2		1/2	
3/4	1,846.16	3/4	1,479.02	3/4	1,111.88	3/4	745.24	3/4	382.80	3/4	63.77	3/4		3/4		3/4		3/4	
1	1,838.52	1	1,471.37	1	1,104.23	1	737.59	1	375.65	1	58.21	1		1		1		1	
1/4	1,830.87	1/4	1,463.72	1/4	1,096.59	1/4	729.94	1/4	368.50	1/4	52.65	1/4		1/4		1/4		1/4	
1/2	1,823.22	1/2	1,456.08	1/2	1,088.94	1/2	722.29	1/2	361.35	1/2	47.09	1/2		1/2		1/2		1/2	
3/4	1,815.57	3/4	1,448.43	3/4	1,081.30	3/4	714.64	3/4	354.20	3/4	41.53	3/4		3/4		3/4		3/4	
2	1,807.92	2	1,440.78	2	1,073.66	2	706.99	2	347.14	2	37.03	2		2		2		2	
1/4	1,800.27	1/4	1,433.13	1/4	1,066.01	1/4	699.34	1/4	340.09	1/4	32.54	1/4		1/4		1/4		1/4	
1/2	1,792.62	1/2	1,425.48	1/2	1,058.37	1/2	691.70	1/2	333.03	1/2	28.04	1/2		1/2		1/2		1/2	
3/4	1,784.97	3/4	1,417.83	3/4	1,050.73	3/4	684.05	3/4	325.97	3/4	23.54	3/4		3/4		3/4		3/4	
3	1,777.33	3	1,410.18	3	1,043.09	3	676.40	3	319.00	3		3		3		3		3	
1/4	1,769.68	1/4	1,402.53	1/4	1,035.45	1/4	668.75	1/4	312.04	1/4		1/4		1/4		1/4		1/4	
1/2	1,762.03	1/2	1,394.89	1/2	1,027.81	1/2	661.10	1/2	305.07	1/2		1/2		1/2		1/2		1/2	
3/4	1,754.38	3/4	1,387.24	3/4	1,020.17	3/4	653.45	3/4	298.10	3/4		3/4		3/4		3/4		3/4	
4	1,746.73	4	1,379.59	4	1,012.54	4	645.80	4	291.23	4		4		4		4		4	
1/4	1,739.08	1/4	1,371.94	1/4	1,004.90	1/4	638.16	1/4	284.35	1/4		1/4		1/4		1/4		1/4	
1/2	1,731.43	1/2	1,364.29	1/2	997.27	1/2	630.51	1/2	277.47	1/2		1/2		1/2		1/2		1/2	
3/4	1,723.78	3/4	1,356.64	3/4	989.63	3/4	622.86	3/4	270.60	3/4		3/4		3/4		3/4		3/4	
5	1,716.14	5	1,348.99	5	982.00	5	615.21	5	263.81	5		5		5		5		5	
1/4	1,708.49	1/4	1,341.34	1/4	974.36	1/4	607.56	1/4	257.03	1/4		1/4		1/4		1/4		1/4	
1/2	1,700.84	1/2	1,333.70	1/2	966.73	1/2	599.91	1/2	250.24	1/2		1/2		1/2		1/2		1/2	
3/4	1,693.19	3/4	1,326.05	3/4	959.09	3/4	592.26	3/4	243.46	3/4		3/4		3/4		3/4		3/4	
6	1,685.54	6	1,318.40	6	951.46	6	584.62	6	236.76	6		6		6		6		6	
1/4	1,677.89	1/4	1,310.75	1/4	943.82	1/4	576.97	1/4	230.07	1/4		1/4		1/4		1/4		1/4	
1/2	1,670.24	1/2	1,303.10	1/2	936.19	1/2	569.33	1/2	223.37	1/2		1/2		1/2		1/2		1/2	
3/4	1,662.59	3/4	1,295.45	3/4	928.55	3/4	561.68	3/4	216.68	3/4		3/4		3/4		3/4		3/4	
7	1,654.94	7	1,287.80	7	920.92	7	554.05	7	210.08	7		7		7		7		7	
1/4	1,647.30	1/4	1,280.15	1/4	913.29	1/4	546.43	1/4	203.47	1/4		1/4		1/4		1/4		1/4	
1/2	1,639.65	1/2	1,272.50	1/2	905.65	1/2	538.80	1/2	196.87	1/2		1/2		1/2		1/2		1/2	
3/4	1,632.00	3/4	1,264.86	3/4	898.02	3/4	531.17	3/4	190.27	3/4		3/4		3/4		3/4		3/4	
8	1,624.35	8	1,257.21	8	890.38	8	523.58	8	183.75	8		8		8		8		8	
1/4	1,616.70	1/4	1,249.56	1/4	882.75	1/4	515.99	1/4	177.24	1/4		1/4		1/4		1/4		1/4	
1/2	1,609.05	1/2	1,241.91	1/2	875.11	1/2	508.40	1/2	170.73	1/2		1/2		1/2		1/2		1/2	
3/4	1,601.40	3/4	1,234.26	3/4	867.48	3/4	500.81	3/4	164.22	3/4		3/4		3/4		3/4		3/4	
9	1,593.75	9	1,226.61	9	859.84	9	493.30	9	157.79	9		9		9		9		9	
1/4	1,586.11	1/4	1,218.96	1/4	852.21	1/4	485.79	1/4	151.37	1/4		1/4		1/4		1/4		1/4	
1/2	1,578.46	1/2	1,211.31	1/2	844.57	1/2	478.28	1/2	144.95	1/2		1/2		1/2		1/2		1/2	
3/4	1,570.81	3/4	1,203.67	3/4	836.94	3/4	470.76	3/4	138.53	3/4		3/4		3/4		3/4		3/4	
10	1,563.16	10	1,196.02	10	829.30	10	463.34	10	132.20	10		10		10		10		10	
1/4	1,555.51	1/4	1,188.37	1/4	821.67	1/4	455.92	1/4	125.87	1/4		1/4		1/4		1/4		1/4	
1/2	1,547.86	1/2	1,180.72	1/2	814.03	1/2	448.50	1/2	119.54	1/2		1/2		1/2		1/2		1/2	
3/4	1,540.21	3/4	1,173.07	3/4	806.40	3/4	441.08	3/4	113.21	3/4		3/4		3/4		3/4		3/4	
11	1,532.56	11	1,165.42	11	798.75	11	433.75	11	106.98	11		11		11		11		11	
1/4	1,524.92	1/4	1,157.77	1/4	791.11	1/4	426.42	1/4	100.74	1/4		1/4		1/4		1/4		1/4	
1/2	1,517.27	1/2	1,150.12	1/2	783.47	1/2	419.09	1/2	94.51	1/2		1/2		1/2		1/2		1/2	
3/4	1,509.62	3/4	1,142.48	3/4	775.83	3/4	411.76	3/4	88.27	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/23/2013 CL
CALCULATED: 09/23/2013 CL
PRINTED: 09/24/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2013

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



BARGE "CTCo 318"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-03"

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
					4,532.75		4,213.92		3,875.38		3,531.06		3,186.73		2,842.41		2,497.89		2,153.37
1/4	1/4	1/4	1/4	1/4	4,526.33	1/4	4,207.04	1/4	3,868.21	1/4	3,523.88	1/4	3,179.56	1/4	2,835.24	1/4	2,490.72	1/4	2,146.20
1/2	1/2	1/2	1/2	1/2	4,519.90	1/2	4,200.17	1/2	3,861.03	1/2	3,516.71	1/2	3,172.39	1/2	2,828.06	1/2	2,483.54	1/2	2,139.02
3/4	3/4	3/4	3/4	3/4	4,513.47	3/4	4,193.29	3/4	3,853.86	3/4	3,509.54	3/4	3,165.21	3/4	2,820.88	3/4	2,476.36	3/4	2,131.84
1	1	1	1	1	4,507.04	1	4,186.42	1	3,846.69	1	3,502.36	1	3,158.04	1	2,813.70	1	2,469.18	1	2,124.66
1/4	1/4	1/4	1/4	1/4	4,500.56	1/4	4,179.50	1/4	3,839.51	1/4	3,495.19	1/4	3,150.87	1/4	2,806.53	1/4	2,462.01	1/4	2,117.49
1/2	1/2	1/2	1/2	1/2	4,494.09	1/2	4,172.59	1/2	3,832.34	1/2	3,488.02	1/2	3,143.69	1/2	2,799.35	1/2	2,454.83	1/2	2,110.31
3/4	3/4	3/4	3/4	3/4	4,487.61	3/4	4,165.67	3/4	3,825.17	3/4	3,480.84	3/4	3,136.52	3/4	2,792.17	3/4	2,447.65	3/4	2,103.13
2	2	2	2	2	4,481.13	2	4,158.76	2	3,817.99	2	3,473.67	2	3,129.35	2	2,784.99	2	2,440.47	2	2,095.95
1/4	1/4	1/4	1/4	1/4	4,474.60	1/4	4,151.81	1/4	3,810.82	1/4	3,466.50	1/4	3,122.17	1/4	2,777.82	1/4	2,433.30	1/4	2,088.78
1/2	1/2	1/2	1/2	1/2	4,468.07	1/2	4,144.86	1/2	3,803.64	1/2	3,459.32	1/2	3,115.00	1/2	2,770.64	1/2	2,426.12	1/2	2,081.60
3/4	3/4	3/4	3/4	3/4	4,461.54	3/4	4,137.91	3/4	3,796.47	3/4	3,452.15	3/4	3,107.83	3/4	2,763.46	3/4	2,418.94	3/4	2,074.42
3	3	3	3	3	4,455.00	3	4,130.96	3	3,789.30	3	3,444.97	3	3,100.65	3	2,756.28	3	2,411.76	3	2,067.24
1/4	1/4	1/4	1/4	1/4	4,448.44	1/4	4,123.98	1/4	3,782.12	1/4	3,437.80	1/4	3,093.48	1/4	2,749.11	1/4	2,404.59	1/4	2,060.07
1/2	1/2	1/2	1/2	1/2	4,441.87	1/2	4,117.00	1/2	3,774.95	1/2	3,430.63	1/2	3,086.30	1/2	2,741.93	1/2	2,397.41	1/2	2,052.89
3/4	3/4	3/4	3/4	3/4	4,435.31	3/4	4,110.02	3/4	3,767.78	3/4	3,423.45	3/4	3,079.13	3/4	2,734.75	3/4	2,390.23	3/4	2,045.71
4	4	4	4	4	4,428.74	4	4,103.04	4	3,760.60	4	3,416.28	4	3,071.96	4	2,727.57	4	2,383.05	4	2,038.53
1/4	1/4	1/4	1/4	1/4	4,422.14	1/4	4,096.03	1/4	3,753.43	1/4	3,409.11	1/4	3,064.78	1/4	2,720.40	1/4	2,375.88	1/4	2,031.36
1/2	1/2	1/2	1/2	1/2	4,415.54	1/2	4,089.02	1/2	3,746.26	1/2	3,401.93	1/2	3,057.61	1/2	2,713.22	1/2	2,368.70	1/2	2,024.18
3/4	3/4	3/4	3/4	3/4	4,408.93	3/4	4,082.01	3/4	3,739.08	3/4	3,394.76	3/4	3,050.44	3/4	2,706.04	3/4	2,361.52	3/4	2,017.00
5	5	5	5	5	4,402.33	5	4,075.00	5	3,731.91	5	3,387.59	5	3,043.26	5	2,698.86	5	2,354.34	5	2,009.82
1/4	1/4	1/4	1/4	1/4	4,395.70	1/4	4,067.95	1/4	3,724.74	1/4	3,380.41	1/4	3,036.09	1/4	2,691.69	1/4	2,347.17	1/4	2,002.65
1/2	1/2	1/2	1/2	1/2	4,389.06	1/2	4,060.91	1/2	3,717.56	1/2	3,373.24	1/2	3,028.92	1/2	2,684.51	1/2	2,339.99	1/2	1,995.47
3/4	3/4	3/4	3/4	3/4	4,382.43	3/4	4,053.86	3/4	3,710.39	3/4	3,366.07	3/4	3,021.74	3/4	2,677.33	3/4	2,332.81	3/4	1,988.29
6	6	6	6	6	4,375.80	6	4,046.81	6	3,703.22	6	3,358.89	6	3,014.57	6	2,670.15	6	2,325.63	6	1,981.11
1/4	1/4	1/4	1/4	1/4	4,369.13	1/4	4,039.73	1/4	3,696.04	1/4	3,351.72	1/4	3,007.40	1/4	2,662.98	1/4	2,318.46	1/4	1,973.94
1/2	1/2	1/2	1/2	1/2	4,362.47	1/2	4,032.65	1/2	3,688.87	1/2	3,344.55	1/2	3,000.22	1/2	2,655.80	1/2	2,311.28	1/2	1,966.76
3/4	3/4	3/4	3/4	3/4	4,355.80	3/4	4,025.56	3/4	3,681.70	3/4	3,337.37	3/4	2,993.05	3/4	2,648.62	3/4	2,304.10	3/4	1,959.58
7	7	7	7	7	4,349.14	7	4,018.48	7	3,674.52	7	3,330.20	7	2,985.88	7	2,641.44	7	2,296.92	7	1,952.40
1/4	1/4	1/4	1/4	1/4	4,342.44	1/4	4,011.37	1/4	3,667.35	1/4	3,323.03	1/4	2,978.70	1/4	2,634.27	1/4	2,289.75	1/4	1,945.23
1/2	1/2	1/2	1/2	1/2	4,335.74	1/2	4,004.25	1/2	3,660.18	1/2	3,315.85	1/2	2,971.53	1/2	2,627.09	1/2	2,282.57	1/2	1,938.05
3/4	3/4	3/4	3/4	3/4	4,329.05	3/4	3,997.14	3/4	3,653.00	3/4	3,308.68	3/4	2,964.36	3/4	2,619.91	3/4	2,275.39	3/4	1,930.87
8	8	8	8	8	4,322.35	8	3,990.02	8	3,645.83	8	3,301.51	8	2,957.18	8	2,612.73	8	2,268.21	8	1,923.69
1/4	1/4	1/4	1/4	1/4	4,315.62	1/4	3,982.88	1/4	3,638.66	1/4	3,294.33	1/4	2,950.01	1/4	2,605.56	1/4	2,261.04	1/4	1,916.52
1/2	1/2	1/2	1/2	1/2	4,308.89	1/2	3,975.73	1/2	3,631.48	1/2	3,287.16	1/2	2,942.84	1/2	2,598.38	1/2	2,253.86	1/2	1,909.34
3/4	3/4	3/4	3/4	3/4	4,302.16	3/4	3,968.59	3/4	3,624.31	3/4	3,279.99	3/4	2,935.66	3/4	2,591.20	3/4	2,246.68	3/4	1,902.16
9	9	9	9	9	4,295.44	9	3,961.44	9	3,617.14	9	3,272.81	9	2,928.49	9	2,584.02	9	2,239.50	9	1,894.98
1/4	1/4	1/4	1/4	1/4	4,288.68	1/4	3,954.27	1/4	3,609.96	1/4	3,265.64	1/4	2,921.32	1/4	2,576.85	1/4	2,232.33	1/4	1,887.81
1/2	1/2	1/2	1/2	1/2	4,281.92	1/2	3,947.10	1/2	3,602.79	1/2	3,258.47	1/2	2,914.14	1/2	2,569.67	1/2	2,225.15	1/2	1,880.63
3/4	3/4	3/4	3/4	3/4	4,275.16	3/4	3,939.93	3/4	3,595.62	3/4	3,251.29	3/4	2,906.97	3/4	2,562.49	3/4	2,217.97	3/4	1,873.45
10	10	10	10	10	4,268.39	10	3,932.77	10	3,588.44	10	3,244.12	10	2,899.80	10	2,555.31	10	2,210.79	10	1,866.27
1/4	1/4	1/4	1/4	1/4	4,261.60	1/4	3,925.59	1/4	3,581.27	1/4	3,236.95	1/4	2,892.62	1/4	2,548.14	1/4	2,203.62	1/4	1,859.10
1/2	1/2	1/2	1/2	1/2	4,254.81	1/2	3,918.42	1/2	3,574.10	1/2	3,229.77	1/2	2,885.45	1/2	2,540.96	1/2	2,196.44	1/2	1,851.92
3/4	3/4	3/4	3/4	3/4	4,248.02	3/4	3,911.25	3/4	3,566.92	3/4	3,222.60	3/4	2,878.28	3/4	2,533.78	3/4	2,189.26	3/4	1,844.74
11	11	11	11	11	4,241.23	11	3,904.07	11	3,559.75	11	3,215.43	11	2,871.10	11	2,526.60	11	2,182.08	11	1,837.56
1/4	1/4	1/4	1/4	1/4	4,234.40	1/4	3,896.90	1/4	3,552.58	1/4	3,208.25	1/4	2,863.93	1/4	2,519.43	1/4	2,174.91	1/4	1,830.39
1/2	1/2	1/2	1/2	1/2	4,227.57	1/2	3,889.73	1/2	3,545.40	1/2	3,201.08	1/2	2,856.76	1/2	2,512.25	1/2	2,167.73	1/2	1,823.21
3/4	3/4	3/4	3/4	3/4	4,220.74	3/4	3,882.55	3/4	3,538.23	3/4	3,193.91	3/4	2,849.59	3/4	2,505.07	3/4	2,160.55	3/4	1,816.03

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 AT 2" DIAMETER OPENING ON "HERMETIC" CLOSED GAUGING VALVE.

GAUGE POINT: (HERMETIC) LOCATED 12'-09" 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 318"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-03"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,808.85	0	1,464.33	0	1,120.38	0	789.67	0	445.16	0	100.68	0		0		0		0	
1/4	1,801.68	1/4	1,457.16	1/4	1,113.48	1/4	782.49	1/4	437.98	1/4	93.53	1/4		1/4		1/4		1/4	
1/2	1,794.50	1/2	1,449.98	1/2	1,106.59	1/2	775.31	1/2	430.81	1/2	86.37	1/2		1/2		1/2		1/2	
3/4	1,787.32	3/4	1,442.80	3/4	1,099.70	3/4	768.14	3/4	423.63	3/4	79.22	3/4		3/4		3/4		3/4	
1	1,780.14	1	1,435.62	1	1,092.80	1	760.96	1	416.45	1	72.06	1		1		1		1	
1/4	1,772.97	1/4	1,428.45	1/4	1,085.91	1/4	753.78	1/4	409.28	1/4	65.35	1/4		1/4		1/4		1/4	
1/2	1,765.79	1/2	1,421.27	1/2	1,079.03	1/2	746.60	1/2	402.10	1/2	58.64	1/2		1/2		1/2		1/2	
3/4	1,758.61	3/4	1,414.09	3/4	1,072.14	3/4	739.43	3/4	394.92	3/4	51.93	3/4		3/4		3/4		3/4	
2	1,751.43	2	1,406.91	2	1,065.25	2	732.25	2	387.74	2	45.22	2		2		2		2	
1/4	1,744.26	1/4	1,399.74	1/4	1,058.37	1/4	725.07	1/4	380.57	1/4	39.84	1/4		1/4		1/4		1/4	
1/2	1,737.08	1/2	1,392.56	1/2	1,051.49	1/2	717.90	1/2	373.39	1/2	34.46	1/2		1/2		1/2		1/2	
3/4	1,729.90	3/4	1,385.38	3/4	1,044.61	3/4	710.72	3/4	366.21	3/4	29.07	3/4		3/4		3/4		3/4	
3	1,722.72	3	1,378.20	3	1,037.73	3	703.54	3	359.04	3	23.69	3		3		3		3	
1/4	1,715.55	1/4	1,371.03	1/4	1,030.85	1/4	696.36	1/4	351.86	1/4		1/4		1/4		1/4		1/4	
1/2	1,708.37	1/2	1,363.85	1/2	1,023.98	1/2	689.19	1/2	344.68	1/2		1/2		1/2		1/2		1/2	
3/4	1,701.19	3/4	1,356.67	3/4	1,017.10	3/4	682.01	3/4	337.50	3/4		3/4		3/4		3/4		3/4	
4	1,694.01	4	1,349.49	4	1,010.22	4	674.83	4	330.33	4		4		4		4		4	
1/4	1,686.84	1/4	1,342.32	1/4	1,003.35	1/4	667.66	1/4	323.15	1/4		1/4		1/4		1/4		1/4	
1/2	1,679.66	1/2	1,335.14	1/2	996.48	1/2	660.48	1/2	315.97	1/2		1/2		1/2		1/2		1/2	
3/4	1,672.48	3/4	1,327.96	3/4	989.60	3/4	653.30	3/4	308.80	3/4		3/4		3/4		3/4		3/4	
5	1,665.30	5	1,320.78	5	982.73	5	646.12	5	301.62	5		5		5		5		5	
1/4	1,658.13	1/4	1,313.61	1/4	975.86	1/4	638.95	1/4	294.44	1/4		1/4		1/4		1/4		1/4	
1/2	1,650.95	1/2	1,306.43	1/2	968.98	1/2	631.77	1/2	287.26	1/2		1/2		1/2		1/2		1/2	
3/4	1,643.77	3/4	1,299.25	3/4	962.11	3/4	624.59	3/4	280.09	3/4		3/4		3/4		3/4		3/4	
6	1,636.59	6	1,292.07	6	955.24	6	617.41	6	272.91	6		6		6		6		6	
1/4	1,629.42	1/4	1,284.90	1/4	948.36	1/4	610.24	1/4	265.73	1/4		1/4		1/4		1/4		1/4	
1/2	1,622.24	1/2	1,277.72	1/2	941.49	1/2	603.06	1/2	258.55	1/2		1/2		1/2		1/2		1/2	
3/4	1,615.06	3/4	1,270.54	3/4	934.62	3/4	595.88	3/4	251.38	3/4		3/4		3/4		3/4		3/4	
7	1,607.88	7	1,263.36	7	927.74	7	588.71	7	244.20	7		7		7		7		7	
1/4	1,600.71	1/4	1,256.19	1/4	920.87	1/4	581.53	1/4	237.02	1/4		1/4		1/4		1/4		1/4	
1/2	1,593.53	1/2	1,249.01	1/2	914.00	1/2	574.35	1/2	229.85	1/2		1/2		1/2		1/2		1/2	
3/4	1,586.35	3/4	1,241.83	3/4	907.12	3/4	567.17	3/4	222.67	3/4		3/4		3/4		3/4		3/4	
8	1,579.17	8	1,234.65	8	900.25	8	560.00	8	215.49	8		8		8		8		8	
1/4	1,572.00	1/4	1,227.48	1/4	893.38	1/4	552.82	1/4	208.31	1/4		1/4		1/4		1/4		1/4	
1/2	1,564.82	1/2	1,220.30	1/2	886.50	1/2	545.64	1/2	201.14	1/2		1/2		1/2		1/2		1/2	
3/4	1,557.64	3/4	1,213.12	3/4	879.63	3/4	538.47	3/4	193.96	3/4		3/4		3/4		3/4		3/4	
9	1,550.46	9	1,205.94	9	872.76	9	531.29	9	186.78	9		9		9		9		9	
1/4	1,543.29	1/4	1,198.77	1/4	865.88	1/4	524.11	1/4	179.61	1/4		1/4		1/4		1/4		1/4	
1/2	1,536.11	1/2	1,191.59	1/2	859.01	1/2	516.93	1/2	172.43	1/2		1/2		1/2		1/2		1/2	
3/4	1,528.93	3/4	1,184.41	3/4	852.14	3/4	509.76	3/4	165.25	3/4		3/4		3/4		3/4		3/4	
10	1,521.75	10	1,177.23	10	845.26	10	502.58	10	158.07	10		10		10		10		10	
1/4	1,514.58	1/4	1,170.06	1/4	838.39	1/4	495.40	1/4	150.90	1/4		1/4		1/4		1/4		1/4	
1/2	1,507.40	1/2	1,162.88	1/2	831.52	1/2	488.23	1/2	143.72	1/2		1/2		1/2		1/2		1/2	
3/4	1,500.22	3/4	1,155.70	3/4	824.64	3/4	481.05	3/4	136.54	3/4		3/4		3/4		3/4		3/4	
11	1,493.04	11	1,148.52	11	817.77	11	473.87	11	129.37	11		11		11		11		11	
1/4	1,485.87	1/4	1,141.49	1/4	810.74	1/4	466.69	1/4	122.20	1/4		1/4		1/4		1/4		1/4	
1/2	1,478.69	1/2	1,134.45	1/2	803.72	1/2	459.52	1/2	115.02	1/2		1/2		1/2		1/2		1/2	
3/4	1,471.51	3/4	1,127.42	3/4	796.69	3/4	452.34	3/4	107.85	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/23/2013 CL
CALCULATED: 09/23/2013 CL
PRINTED: 09/24/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2013

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "CTCo 318"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 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
			4,846.22		4,531.52		4,211.95		3,872.99		3,528.84		3,184.69		2,840.54		2,496.20		2,151.85		
1/4	1/4	1/2	4,840.54	1/2	4,525.10	1/2	4,205.08	1/2	3,865.82	1/2	3,521.67	1/2	3,177.52	1/2	2,833.37	1/2	2,489.02	1/2	2,144.68		
3/4	3/4	3/4	4,834.87	3/4	4,518.67	3/4	4,198.21	3/4	3,858.65	3/4	3,514.50	3/4	3,170.35	3/4	2,826.20	3/4	2,481.85	3/4	2,137.50		
1	1	1	4,828.11	1	4,512.20	1	4,191.30	1	3,851.48	1	3,507.33	1	3,163.18	1	2,819.02	1	2,474.67	1	2,130.33		
1/4	1/4	1/4	4,821.36	1/4	4,505.72	1/4	4,184.39	1/4	3,844.31	1/4	3,500.16	1/4	3,156.01	1/4	2,811.85	1/4	2,467.50	1/4	2,123.15		
1/2	1/2	1/2	4,814.60	1/2	4,499.25	1/2	4,177.47	1/2	3,837.14	1/2	3,492.99	1/2	3,148.84	1/2	2,804.67	1/2	2,460.33	1/2	2,115.98		
3/4	3/4	3/4	4,807.85	3/4	4,492.77	3/4	4,170.56	3/4	3,829.97	3/4	3,485.82	3/4	3,141.67	3/4	2,797.50	3/4	2,453.15	3/4	2,108.81		
2	2	2	4,800.74	2	4,486.24	2	4,163.62	2	3,822.80	2	3,478.65	2	3,134.50	2	2,790.33	2	2,445.98	2	2,101.63		
1/4	1/4	1/4	4,793.62	1/4	4,479.72	1/4	4,156.67	1/4	3,815.63	1/4	3,471.48	1/4	3,127.33	1/4	2,783.15	1/4	2,438.81	1/4	2,094.46		
1/2	1/2	1/2	4,786.51	1/2	4,473.19	1/2	4,149.73	1/2	3,808.46	1/2	3,464.31	1/2	3,120.16	1/2	2,775.98	1/2	2,431.63	1/2	2,087.28		
3/4	3/4	3/4	4,779.40	3/4	4,466.66	3/4	4,142.78	3/4	3,801.29	3/4	3,457.14	3/4	3,112.99	3/4	2,768.80	3/4	2,424.46	3/4	2,080.11		
3	3	3	4,772.29	3	4,460.10	3	4,135.81	3	3,794.12	3	3,449.97	3	3,105.82	3	2,761.63	3	2,417.28	3	2,072.94		
1/4	1/4	1/4	4,765.17	1/4	4,453.54	1/4	4,128.83	1/4	3,786.95	1/4	3,442.80	1/4	3,098.65	1/4	2,754.46	1/4	2,410.11	1/4	2,065.76		
1/2	1/2	1/2	4,758.06	1/2	4,446.97	1/2	4,121.86	1/2	3,779.79	1/2	3,435.63	1/2	3,091.48	1/2	2,747.28	1/2	2,402.94	1/2	2,058.59		
3/4	3/4	3/4	4,750.95	3/4	4,440.41	3/4	4,114.88	3/4	3,772.62	3/4	3,428.46	3/4	3,084.31	3/4	2,740.11	3/4	2,395.76	3/4	2,051.41		
4	4	4	4,743.84	4	4,433.81	4	4,107.87	4	3,765.45	4	3,421.30	4	3,077.14	4	2,732.93	4	2,388.59	4	2,044.24		
1/4	1/4	1/4	4,736.72	1/4	4,427.21	1/4	4,100.86	1/4	3,758.28	1/4	3,414.13	1/4	3,069.97	1/4	2,725.76	1/4	2,381.41	1/4	2,037.07		
1/2	1/2	1/2	4,729.61	1/2	4,420.61	1/2	4,093.86	1/2	3,751.11	1/2	3,406.96	1/2	3,062.81	1/2	2,718.59	1/2	2,374.24	1/2	2,029.89		
3/4	3/4	3/4	4,722.50	3/4	4,414.02	3/4	4,086.85	3/4	3,743.94	3/4	3,399.79	3/4	3,055.64	3/4	2,711.41	3/4	2,367.07	3/4	2,022.72		
5	5	5	4,715.84	5	4,407.39	5	4,079.81	5	3,736.77	5	3,392.62	5	3,048.47	5	2,704.24	5	2,359.89	5	2,015.55		
1/4	1/4	1/4	4,709.17	1/4	4,400.75	1/4	4,072.76	1/4	3,729.60	1/4	3,385.45	1/4	3,041.30	1/4	2,697.07	1/4	2,352.72	1/4	2,008.37		
1/2	1/2	1/2	4,702.51	1/2	4,394.12	1/2	4,065.72	1/2	3,722.43	1/2	3,378.28	1/2	3,034.13	1/2	2,689.89	1/2	2,345.54	1/2	2,001.20		
3/4	3/4	3/4	4,695.84	3/4	4,387.49	3/4	4,058.67	3/4	3,715.26	3/4	3,371.11	3/4	3,026.96	3/4	2,682.72	3/4	2,338.37	3/4	1,994.02		
6	6	6	4,689.61	6	4,380.83	6	4,051.60	6	3,708.09	6	3,363.94	6	3,019.79	6	2,675.54	6	2,331.20	6	1,986.85		
1/4	1/4	1/4	4,683.38	1/4	4,374.17	1/4	4,044.52	1/4	3,700.92	1/4	3,356.77	1/4	3,012.62	1/4	2,668.37	1/4	2,324.02	1/4	1,979.68		
1/2	1/2	1/2	4,677.15	1/2	4,367.51	1/2	4,037.44	1/2	3,693.75	1/2	3,349.60	1/2	3,005.45	1/2	2,661.20	1/2	2,316.85	1/2	1,972.50		
3/4	3/4	3/4	4,670.92	3/4	4,360.85	3/4	4,030.36	3/4	3,686.58	3/4	3,342.43	3/4	2,998.28	3/4	2,654.02	3/4	2,309.67	3/4	1,965.33		
7	7	7	4,664.66	7	4,354.15	7	4,023.25	7	3,679.41	7	3,335.26	7	2,991.11	7	2,646.85	7	2,302.50	7	1,958.15		
1/4	1/4	1/4	4,658.40	1/4	4,347.46	1/4	4,016.14	1/4	3,672.24	1/4	3,328.09	1/4	2,983.94	1/4	2,639.67	1/4	2,295.33	1/4	1,950.98		
1/2	1/2	1/2	4,652.14	1/2	4,340.77	1/2	4,009.03	1/2	3,665.07	1/2	3,320.92	1/2	2,976.77	1/2	2,632.50	1/2	2,288.15	1/2	1,943.81		
3/4	3/4	3/4	4,645.88	3/4	4,334.07	3/4	4,001.92	3/4	3,657.90	3/4	3,313.75	3/4	2,969.60	3/4	2,625.33	3/4	2,280.98	3/4	1,936.63		
8	8	8	4,639.59	8	4,327.35	8	3,994.77	8	3,650.73	8	3,306.58	8	2,962.43	8	2,618.15	8	2,273.81	8	1,929.46		
1/4	1/4	1/4	4,633.29	1/4	4,320.62	1/4	3,987.63	1/4	3,643.56	1/4	3,299.41	1/4	2,955.26	1/4	2,610.98	1/4	2,266.63	1/4	1,922.28		
1/2	1/2	1/2	4,627.00	1/2	4,313.90	1/2	3,980.49	1/2	3,636.39	1/2	3,292.24	1/2	2,948.09	1/2	2,603.80	1/2	2,259.46	1/2	1,915.11		
3/4	3/4	3/4	4,620.71	3/4	4,307.17	3/4	3,973.35	3/4	3,629.22	3/4	3,285.07	3/4	2,940.92	3/4	2,596.63	3/4	2,252.28	3/4	1,907.94		
9	9	9	4,614.38	9	4,300.42	9	3,966.18	9	3,622.05	9	3,277.90	9	2,933.75	9	2,589.46	9	2,245.11	9	1,900.76		
1/4	1/4	1/4	4,608.05	1/4	4,293.66	1/4	3,959.02	1/4	3,614.88	1/4	3,270.73	1/4	2,926.58	1/4	2,582.28	1/4	2,237.94	1/4	1,893.59		
1/2	1/2	1/2	4,601.72	1/2	4,286.90	1/2	3,951.85	1/2	3,607.71	1/2	3,263.56	1/2	2,919.41	1/2	2,575.11	1/2	2,230.76	1/2	1,886.41		
3/4	3/4	3/4	4,595.39	3/4	4,280.15	3/4	3,944.69	3/4	3,600.54	3/4	3,256.39	3/4	2,912.24	3/4	2,567.94	3/4	2,223.59	3/4	1,879.24		
10	10	10	4,589.03	10	4,273.36	10	3,937.52	10	3,593.37	10	3,249.22	10	2,905.07	10	2,560.76	10	2,216.41	10	1,872.07		
1/4	1/4	1/4	4,582.66	1/4	4,266.57	1/4	3,930.35	1/4	3,586.20	1/4	3,242.05	1/4	2,897.90	1/4	2,553.59	1/4	2,209.24	1/4	1,864.89		
1/2	1/2	1/2	4,576.30	1/2	4,259.78	1/2	3,923.18	1/2	3,579.03	1/2	3,234.88	1/2	2,890.73	1/2	2,546.41	1/2	2,202.07	1/2	1,857.72		
3/4	3/4	3/4	4,569.94	3/4	4,252.99	3/4	3,916.01	3/4	3,571.86	3/4	3,227.71	3/4	2,883.56	3/4	2,539.24	3/4	2,194.89	3/4	1,850.55		
11	11	11	4,563.55	11	4,246.17	11	3,908.84	11	3,564.69	11	3,220.54	11	2,876.39	11	2,532.07	11	2,187.72	11	1,843.37		
1/4	1/4	1/4	4,557.16	1/4	4,239.34	1/4	3,901.67	1/4	3,557.52	1/4	3,213.37	1/4	2,869.23	1/4	2,524.89	1/4	2,180.54	1/4	1,836.20		
1/2	1/2	1/2	4,550.76	1/2	4,232.52	1/2	3,894.50	1/2	3,550.35	1/2	3,206.20	1/2	2,862.06	1/2	2,517.72	1/2	2,173.37	1/2	1,829.02		
3/4	3/4	3/4	4,544.37	3/4	4,225.70	3/4	3,887.33	3/4	3,543.18	3/4	3,199.03	3/4	2,854.89	3/4	2,510.54	3/4	2,166.20	3/4	1,821.85		

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 AT 2" DIAMETER OPENING ON "HERMETIC" CLOSED GAUGING VALVE.

GAUGE POINT: (HERMETIC) LOCATED 12'-09" 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 318"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,814.68	0	1,470.33	0	1,125.98	0	782.10	0	437.76	0	93.48	0		0		0		0	
1/4	1,807.50	1/4	1,463.15	1/4	1,118.81	1/4	774.92	1/4	430.59	1/4	86.33	1/4		1/4		1/4		1/4	
1/2	1,800.33	1/2	1,455.98	1/2	1,111.63	1/2	767.75	1/2	423.42	1/2	79.18	1/2		1/2		1/2		1/2	
3/4	1,793.15	3/4	1,448.81	3/4	1,104.46	3/4	760.58	3/4	416.24	3/4	72.03	3/4		3/4		3/4		3/4	
1	1,785.98	1	1,441.63	1	1,097.29	1	753.40	1	409.07	1	65.32	1		1		1		1	
1/4	1,778.81	1/4	1,434.46	1/4	1,090.12	1/4	746.23	1/4	401.90	1/4	58.61	1/4		1/4		1/4		1/4	
1/2	1,771.63	1/2	1,427.29	1/2	1,082.95	1/2	739.06	1/2	394.72	1/2	51.90	1/2		1/2		1/2		1/2	
3/4	1,764.46	3/4	1,420.11	3/4	1,075.78	3/4	731.88	3/4	387.55	3/4	45.20	3/4		3/4		3/4		3/4	
2	1,757.28	2	1,412.94	2	1,068.61	2	724.71	2	380.38	2	39.82	2		2		2		2	
1/4	1,750.11	1/4	1,405.76	1/4	1,061.44	1/4	717.53	1/4	373.20	1/4	34.44	1/4		1/4		1/4		1/4	
1/2	1,742.94	1/2	1,398.59	1/2	1,054.27	1/2	710.36	1/2	366.03	1/2	29.06	1/2		1/2		1/2		1/2	
3/4	1,735.76	3/4	1,391.42	3/4	1,047.10	3/4	703.19	3/4	358.85	3/4	23.68	3/4		3/4		3/4		3/4	
3	1,728.59	3	1,384.24	3	1,039.94	3	696.01	3	351.68	3		3		3		3		3	
1/4	1,721.42	1/4	1,377.07	1/4	1,032.77	1/4	688.84	1/4	344.51	1/4		1/4		1/4		1/4		1/4	
1/2	1,714.24	1/2	1,369.89	1/2	1,025.61	1/2	681.67	1/2	337.33	1/2		1/2		1/2		1/2		1/2	
3/4	1,707.07	3/4	1,362.72	3/4	1,018.44	3/4	674.49	3/4	330.16	3/4		3/4		3/4		3/4		3/4	
4	1,699.89	4	1,355.55	4	1,011.28	4	667.32	4	322.99	4		4		4		4		4	
1/4	1,692.72	1/4	1,348.37	1/4	1,004.12	1/4	660.15	1/4	315.81	1/4		1/4		1/4		1/4		1/4	
1/2	1,685.55	1/2	1,341.20	1/2	996.96	1/2	652.97	1/2	308.64	1/2		1/2		1/2		1/2		1/2	
3/4	1,678.37	3/4	1,334.02	3/4	989.80	3/4	645.80	3/4	301.47	3/4		3/4		3/4		3/4		3/4	
5	1,671.20	5	1,326.85	5	982.64	5	638.63	5	294.29	5		5		5		5		5	
1/4	1,664.02	1/4	1,319.68	1/4	975.48	1/4	631.45	1/4	287.12	1/4		1/4		1/4		1/4		1/4	
1/2	1,656.85	1/2	1,312.50	1/2	968.32	1/2	624.28	1/2	279.95	1/2		1/2		1/2		1/2		1/2	
3/4	1,649.68	3/4	1,305.33	3/4	961.16	3/4	617.10	3/4	272.77	3/4		3/4		3/4		3/4		3/4	
6	1,642.50	6	1,298.16	6	954.00	6	609.93	6	265.60	6		6		6		6		6	
1/4	1,635.33	1/4	1,290.98	1/4	946.84	1/4	602.76	1/4	258.42	1/4		1/4		1/4		1/4		1/4	
1/2	1,628.15	1/2	1,283.81	1/2	939.68	1/2	595.58	1/2	251.25	1/2		1/2		1/2		1/2		1/2	
3/4	1,620.98	3/4	1,276.63	3/4	932.51	3/4	588.41	3/4	244.08	3/4		3/4		3/4		3/4		3/4	
7	1,613.81	7	1,269.46	7	925.35	7	581.24	7	236.90	7		7		7		7		7	
1/4	1,606.63	1/4	1,262.29	1/4	918.19	1/4	574.06	1/4	229.73	1/4		1/4		1/4		1/4		1/4	
1/2	1,599.46	1/2	1,255.11	1/2	911.03	1/2	566.89	1/2	222.56	1/2		1/2		1/2		1/2		1/2	
3/4	1,592.28	3/4	1,247.94	3/4	903.87	3/4	559.72	3/4	215.38	3/4		3/4		3/4		3/4		3/4	
8	1,585.11	8	1,240.76	8	896.71	8	552.54	8	208.21	8		8		8		8		8	
1/4	1,577.94	1/4	1,233.59	1/4	889.55	1/4	545.37	1/4	201.04	1/4		1/4		1/4		1/4		1/4	
1/2	1,570.76	1/2	1,226.42	1/2	882.39	1/2	538.19	1/2	193.86	1/2		1/2		1/2		1/2		1/2	
3/4	1,563.59	3/4	1,219.24	3/4	875.23	3/4	531.02	3/4	186.69	3/4		3/4		3/4		3/4		3/4	
9	1,556.42	9	1,212.07	9	868.07	9	523.85	9	179.51	9		9		9		9		9	
1/4	1,549.24	1/4	1,204.89	1/4	860.91	1/4	516.67	1/4	172.34	1/4		1/4		1/4		1/4		1/4	
1/2	1,542.07	1/2	1,197.72	1/2	853.74	1/2	509.50	1/2	165.17	1/2		1/2		1/2		1/2		1/2	
3/4	1,534.89	3/4	1,190.55	3/4	846.58	3/4	502.33	3/4	157.99	3/4		3/4		3/4		3/4		3/4	
10	1,527.72	10	1,183.37	10	839.42	10	495.15	10	150.82	10		10		10		10		10	
1/4	1,520.55	1/4	1,176.20	1/4	832.26	1/4	487.98	1/4	143.65	1/4		1/4		1/4		1/4		1/4	
1/2	1,513.37	1/2	1,169.02	1/2	825.10	1/2	480.81	1/2	136.48	1/2		1/2		1/2		1/2		1/2	
3/4	1,506.20	3/4	1,161.85	3/4	817.94	3/4	473.63	3/4	129.30	3/4		3/4		3/4		3/4		3/4	
11	1,499.02	11	1,154.68	11	810.77	11	466.46	11	122.13	11		11		11		11		11	
1/4	1,491.85	1/4	1,147.50	1/4	803.61	1/4	459.29	1/4	114.97	1/4		1/4		1/4		1/4		1/4	
1/2	1,484.68	1/2	1,140.33	1/2	796.44	1/2	452.11	1/2	107.80	1/2		1/2		1/2		1/2		1/2	
3/4	1,477.50	3/4	1,133.16	3/4	789.27	3/4	444.94	3/4	100.63	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/23/2013 CL
CALCULATED: 09/23/2013 CL
PRINTED: 09/24/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2013

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "CTCo 318"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 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	4,655.72	0	4,426.63	0	4,192.63	0	3,944.50	0	3,692.58	0	3,352.83	0	2,989.28	0	2,625.49	0	2,262.87
1/4		1/4	4,652.03	1/4	4,421.93	1/4	4,187.60	1/4	3,939.26	1/4	3,687.33	1/4	3,345.28	1/4	2,981.70	1/4	2,617.91	1/4	2,255.34
1/2		1/2	4,648.35	1/2	4,417.22	1/2	4,182.57	1/2	3,934.01	1/2	3,682.08	1/2	3,337.72	1/2	2,974.12	1/2	2,610.32	1/2	2,247.82
3/4		3/4	4,643.52	3/4	4,412.48	3/4	4,177.51	3/4	3,928.76	3/4	3,676.83	3/4	3,330.16	3/4	2,966.54	3/4	2,602.74	3/4	2,240.30
1		1	4,638.69	1	4,407.73	1	4,172.45	1	3,923.51	1	3,671.58	1	3,322.59	1	2,958.97	1	2,595.15	1	2,232.78
1/4		1/4	4,633.86	1/4	4,402.99	1/4	4,167.39	1/4	3,918.26	1/4	3,666.33	1/4	3,315.03	1/4	2,951.39	1/4	2,587.56	1/4	2,225.25
1/2		1/2	4,629.03	1/2	4,398.25	1/2	4,162.33	1/2	3,913.01	1/2	3,661.09	1/2	3,307.46	1/2	2,943.81	1/2	2,579.98	1/2	2,217.73
3/4		3/4	4,623.82	3/4	4,393.47	3/4	4,157.24	3/4	3,907.76	3/4	3,655.25	3/4	3,299.89	3/4	2,936.23	3/4	2,572.39	3/4	2,210.21
2		2	4,618.61	2	4,388.69	2	4,152.16	2	3,902.52	2	3,649.41	2	3,292.31	2	2,928.65	2	2,564.81	2	2,202.69
1/4		1/4	4,613.40	1/4	4,383.91	1/4	4,147.08	1/4	3,897.27	1/4	3,643.58	1/4	3,284.74	1/4	2,921.07	1/4	2,557.22	1/4	2,195.16
1/2		1/2	4,608.20	1/2	4,379.13	1/2	4,141.99	1/2	3,892.02	1/2	3,637.74	1/2	3,277.16	1/2	2,913.50	1/2	2,549.64	1/2	2,187.64
3/4		3/4	4,602.99	3/4	4,374.32	3/4	4,136.88	3/4	3,886.77	3/4	3,630.75	3/4	3,269.58	3/4	2,905.92	3/4	2,542.07	3/4	2,180.12
3		3	4,597.78	3	4,369.52	3	4,131.78	3	3,881.52	3	3,625.76	3	3,262.01	3	2,898.34	3	2,534.50	3	2,172.59
1/4		1/4	4,592.57	1/4	4,364.71	1/4	4,126.67	1/4	3,876.27	1/4	3,616.76	1/4	3,254.43	1/4	2,890.76	1/4	2,526.94	1/4	2,165.07
1/2		1/2	4,587.36	1/2	4,359.91	1/2	4,121.56	1/2	3,871.03	1/2	3,609.77	1/2	3,246.86	1/2	2,883.18	1/2	2,519.37	1/2	2,157.55
3/4		3/4	4,582.15	3/4	4,355.08	3/4	4,116.44	3/4	3,865.78	3/4	3,602.20	3/4	3,239.28	3/4	2,875.60	3/4	2,511.82	3/4	2,150.03
4		4	4,576.94	4	4,350.24	4	4,111.31	4	3,860.53	4	3,594.63	4	3,231.71	4	2,868.03	4	2,504.28	4	2,142.50
1/4		1/4	4,571.73	1/4	4,345.41	1/4	4,106.18	1/4	3,855.28	1/4	3,587.07	1/4	3,224.13	1/4	2,860.45	1/4	2,496.73	1/4	2,134.98
1/2		1/2	4,566.52	1/2	4,340.58	1/2	4,101.05	1/2	3,850.03	1/2	3,579.50	1/2	3,216.56	1/2	2,852.87	1/2	2,489.18	1/2	2,127.46
3/4		3/4	4,561.64	3/4	4,335.73	3/4	4,095.89	3/4	3,844.78	3/4	3,571.94	3/4	3,208.98	3/4	2,845.29	3/4	2,481.64	3/4	2,119.94
5		5	4,556.76	5	4,330.87	5	4,090.73	5	3,839.53	5	3,566.38	5	3,201.40	5	2,837.71	5	2,474.09	5	2,112.41
1/4		1/4	4,551.88	1/4	4,326.02	1/4	4,085.58	1/4	3,834.29	1/4	3,556.82	1/4	3,193.83	1/4	2,830.13	1/4	2,466.54	1/4	2,104.89
1/2		1/2	4,547.00	1/2	4,321.16	1/2	4,080.42	1/2	3,829.04	1/2	3,549.26	1/2	3,186.25	1/2	2,822.56	1/2	2,458.99	1/2	2,097.37
3/4		3/4	4,542.43	3/4	4,316.28	3/4	4,075.24	3/4	3,823.79	3/4	3,541.70	3/4	3,178.68	3/4	2,814.98	3/4	2,451.45	3/4	2,089.85
6		6	4,537.87	6	4,311.41	6	4,070.06	6	3,818.54	6	3,534.15	6	3,171.10	6	2,807.40	6	2,443.90	6	2,082.32
1/4		1/4	4,533.31	1/4	4,306.53	1/4	4,064.88	1/4	3,813.29	1/4	3,526.60	1/4	3,163.53	1/4	2,799.82	1/4	2,436.35	1/4	2,074.80
1/2		1/2	4,528.74	1/2	4,301.65	1/2	4,059.69	1/2	3,808.04	1/2	3,519.04	1/2	3,155.95	1/2	2,792.24	1/2	2,428.81	1/2	2,067.28
3/4		3/4	4,524.16	3/4	4,296.75	3/4	4,054.49	3/4	3,802.79	3/4	3,511.49	3/4	3,148.38	3/4	2,784.66	3/4	2,421.26	3/4	2,059.75
7		7	4,519.57	7	4,291.85	7	4,049.28	7	3,797.55	7	3,503.93	7	3,140.80	7	2,777.09	7	2,413.71	7	2,052.23
1/4		1/4	4,514.99	1/4	4,286.95	1/4	4,044.08	1/4	3,792.30	1/4	3,496.38	1/4	3,133.22	1/4	2,769.51	1/4	2,406.16	1/4	2,044.71
1/2		1/2	4,510.40	1/2	4,282.04	1/2	4,038.87	1/2	3,787.05	1/2	3,488.82	1/2	3,125.65	1/2	2,761.93	1/2	2,398.62	1/2	2,037.19
3/4		3/4	4,505.79	3/4	4,277.12	3/4	4,033.65	3/4	3,781.80	3/4	3,481.27	3/4	3,118.07	3/4	2,754.35	3/4	2,391.07	3/4	2,029.66
8		8	4,501.18	8	4,272.20	8	4,028.42	8	3,776.55	8	3,473.71	8	3,110.50	8	2,746.77	8	2,383.52	8	2,022.14
1/4		1/4	4,496.57	1/4	4,267.27	1/4	4,023.19	1/4	3,771.30	1/4	3,466.16	1/4	3,102.92	1/4	2,739.19	1/4	2,375.98	1/4	2,014.62
1/2		1/2	4,491.96	1/2	4,262.35	1/2	4,017.96	1/2	3,766.06	1/2	3,458.60	1/2	3,095.35	1/2	2,731.62	1/2	2,368.43	1/2	2,007.10
3/4		3/4	4,487.32	3/4	4,257.40	3/4	4,012.72	3/4	3,760.81	3/4	3,451.05	3/4	3,087.77	3/4	2,724.04	3/4	2,360.88	3/4	1,999.57
9		9	4,482.69	9	4,252.45	9	4,007.48	9	3,755.56	9	3,443.49	9	3,080.19	9	2,716.46	9	2,353.34	9	1,992.05
1/4		1/4	4,478.05	1/4	4,247.50	1/4	4,002.23	1/4	3,750.31	1/4	3,435.94	1/4	3,072.62	1/4	2,708.88	1/4	2,345.79	1/4	1,984.53
1/2		1/2	4,473.41	1/2	4,242.56	1/2	3,996.99	1/2	3,745.06	1/2	3,428.38	1/2	3,065.04	1/2	2,701.30	1/2	2,338.24	1/2	1,977.00
3/4		3/4	4,468.75	3/4	4,237.59	3/4	3,991.74	3/4	3,739.81	3/4	3,420.83	3/4	3,057.47	3/4	2,693.73	3/4	2,330.69	3/4	1,969.48
10		10	4,464.09	10	4,232.62	10	3,986.49	10	3,734.56	10	3,413.27	10	3,049.89	10	2,686.15	10	2,323.15	10	1,961.96
1/4		1/4	4,459.43	1/4	4,227.65	1/4	3,981.24	1/4	3,729.32	1/4	3,405.72	1/4	3,042.32	1/4	2,678.57	1/4	2,315.60	1/4	1,954.44
1/2		1/2	4,454.77	1/2	4,222.67	1/2	3,976.00	1/2	3,724.07	1/2	3,398.16	1/2	3,034.74	1/2	2,670.99	1/2	2,308.05	1/2	1,946.91
3/4		3/4	4,450.09	3/4	4,217.68	3/4	3,970.75	3/4	3,718.82	3/4	3,390.61	3/4	3,027.16	3/4	2,663.41	3/4	2,300.52	3/4	1,939.36
11		11	4,445.41	11	4,212.68	11	3,965.50	11	3,713.57	11	3,383.05	11	3,019.59	11	2,655.83	11	2,292.98	11	1,931.81
1/4		1/4	4,440.73	1/4	4,207.68	1/4	3,960.25	1/4	3,708.32	1/4	3,375.50	1/4	3,012.01	1/4	2,648.24	1/4	2,285.45	1/4	1,924.25
1/2		1/2	4,436.04	1/2	4,202.69	1/2	3,955.00	1/2	3,703.07	1/2	3,367.94	1/2	3,004.44	1/2	2,640.66	1/2	2,277.91	1/2	1,916.70
3/4		3/4	4,431.34	3/4	4,197.66	3/4	3,949.75	3/4	3,697.82	3/4	3,360.39	3/4	2,996.86	3/4	2,633.08	3/4	2,270.39	3/4	1,909.11

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 AT 2" DIAMETER OPENING ON "HERMETIC" CLOSED GAUGING VALVE.

GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-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 318"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 1/2"

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			IN		
0	1,901.53		0	1,537.42		0	1,174.15		0	820.00		0	455.69		0	91.45		0														
1/4	1,893.94		1/4	1,529.83		1/4	1,166.77		1/4	812.41		1/4	448.10		1/4	83.88		1/4		1/4		1/4		1/4		1/4		1/4		1/4		
1/2	1,886.35		1/2	1,522.25		1/2	1,159.40		1/2	804.82		1/2	440.52		1/2	76.30		1/2		1/2		1/2		1/2		1/2		1/2		1/2		
3/4	1,878.77		3/4	1,514.66		3/4	1,152.03		3/4	797.23		3/4	432.93		3/4	69.19		3/4		3/4		3/4		3/4		3/4		3/4		3/4		
1	1,871.18		1	1,507.07		1	1,144.66		1	789.64		1	425.34		1	62.09		1		1		1		1		1		1		1		
1/4	1,863.60		1/4	1,499.49		1/4	1,137.29		1/4	782.05		1/4	417.75		1/4	54.98		1/4		1/4		1/4		1/4		1/4		1/4		1/4		
1/2	1,856.01		1/2	1,491.90		1/2	1,129.92		1/2	774.46		1/2	410.16		1/2	47.87		1/2		1/2		1/2		1/2		1/2		1/2		1/2		
3/4	1,848.43		3/4	1,484.32		3/4	1,122.56		3/4	766.87		3/4	402.57		3/4	42.17		3/4		3/4		3/4		3/4		3/4		3/4		3/4		
2	1,840.84		2	1,476.73		2	1,115.19		2	759.28		2	394.98		2	36.47		2		2		2		2		2		2		2		
1/4	1,833.26		1/4	1,469.15		1/4	1,107.83		1/4	751.69		1/4	387.40		1/4	30.77		1/4		1/4		1/4		1/4		1/4		1/4		1/4		
1/2	1,825.67		1/2	1,461.56		1/2	1,100.47		1/2	744.10		1/2	379.81		1/2	25.07		1/2		1/2		1/2		1/2		1/2		1/2		1/2		
3/4	1,818.08		3/4	1,453.98		3/4	1,093.11		3/4	736.51		3/4	372.22		3/4			3/4		3/4		3/4		3/4		3/4		3/4		3/4		
3	1,810.50		3	1,446.39		3	1,085.75		3	728.92		3	364.63		3			3		3		3		3		3		3		3		
1/4	1,802.91		1/4	1,438.80		1/4	1,078.39		1/4	721.33		1/4	357.04		1/4			1/4		1/4		1/4		1/4		1/4		1/4		1/4		
1/2	1,795.33		1/2	1,431.22		1/2	1,071.03		1/2	713.74		1/2	349.45		1/2			1/2		1/2		1/2		1/2		1/2		1/2		1/2		
3/4	1,787.74		3/4	1,423.63		3/4	1,063.67		3/4	706.15		3/4	341.87		3/4			3/4		3/4		3/4		3/4		3/4		3/4		3/4		
4	1,780.16		4	1,416.05		4	1,056.32		4	698.56		4	334.28		4			4		4		4		4		4		4		4		
1/4	1,772.57		1/4	1,408.46		1/4	1,048.96		1/4	690.97		1/4	326.69		1/4			1/4		1/4		1/4		1/4		1/4		1/4		1/4		
1/2	1,764.98		1/2	1,400.88		1/2	1,041.61		1/2	683.38		1/2	319.10		1/2			1/2		1/2		1/2		1/2		1/2		1/2		1/2		
3/4	1,757.40		3/4	1,393.29		3/4	1,034.25		3/4	675.79		3/4	311.51		3/4			3/4		3/4		3/4		3/4		3/4		3/4		3/4		
5	1,749.81		5	1,385.70		5	1,026.89		5	668.20		5	303.92		5			5		5		5		5		5		5		5		
1/4	1,742.23		1/4	1,378.12		1/4	1,019.54		1/4	660.61		1/4	296.33		1/4			1/4		1/4		1/4		1/4		1/4		1/4		1/4		
1/2	1,734.64		1/2	1,370.53		1/2	1,012.18		1/2	653.02		1/2	288.75		1/2			1/2		1/2		1/2		1/2		1/2		1/2		1/2		
3/4	1,727.06		3/4	1,362.95		3/4	1,004.83		3/4	645.43		3/4	281.16		3/4			3/4		3/4		3/4		3/4		3/4		3/4		3/4		
6	1,719.47		6	1,355.36		6	997.47		6	637.84		6	273.57		6			6		6		6		6		6		6		6		
1/4	1,711.89		1/4	1,347.78		1/4	990.12		1/4	630.25		1/4	265.98		1/4			1/4		1/4		1/4		1/4		1/4		1/4		1/4		
1/2	1,704.30		1/2	1,340.19		1/2	982.76		1/2	622.66		1/2	258.39		1/2			1/2		1/2		1/2		1/2		1/2		1/2		1/2		
3/4	1,696.71		3/4	1,332.61		3/4	975.40		3/4	615.07		3/4	250.80		3/4			3/4		3/4		3/4		3/4		3/4		3/4		3/4		
7	1,689.13		7	1,325.02		7	968.05		7	607.48		7	243.21		7			7		7		7		7		7		7		7		
1/4	1,681.54		1/4	1,317.43		1/4	960.69		1/4	599.89		1/4	235.62		1/4			1/4		1/4		1/4		1/4		1/4		1/4		1/4		
1/2	1,673.96		1/2	1,309.85		1/2	953.34		1/2	592.30		1/2	228.04		1/2			1/2		1/2		1/2		1/2		1/2		1/2		1/2		
3/4	1,666.37		3/4	1,302.26		3/4	945.98		3/4	584.71		3/4	220.45		3/4			3/4		3/4		3/4		3/4		3/4		3/4		3/4		
8	1,658.79		8	1,294.68		8	938.62		8	577.12		8	212.86		8			8		8		8		8		8		8		8		
1/4	1,651.20		1/4	1,287.09		1/4	931.27		1/4	569.53		1/4	205.27		1/4			1/4		1/4		1/4		1/4		1/4		1/4		1/4		
1/2	1,643.62		1/2	1,279.51		1/2	923.91		1/2	561.94		1/2	197.68		1/2			1/2		1/2		1/2		1/2		1/2		1/2		1/2		
3/4	1,636.03		3/4	1,271.92		3/4	916.56		3/4	554.35		3/4	190.09		3/4			3/4		3/4		3/4		3/4		3/4		3/4		3/4		
9	1,628.44		9	1,264.34		9	909.20		9	546.76		9	182.50		9			9		9		9		9		9		9		9		
1/4	1,620.86		1/4	1,256.75		1/4	901.85		1/4	539.17		1/4	174.91		1/4			1/4		1/4		1/4		1/4		1/4		1/4		1/4		
1/2	1,613.27		1/2	1,249.16		1/2	894.49		1/2	531.58		1/2	167.32		1/2			1/2		1/2		1/2		1/2		1/2		1/2		1/2		
3/4	1,605.69		3/4	1,241.58		3/4	887.13		3/4	523.99		3/4	159.73		3/4			3/4		3/4		3/4		3/4		3/4		3/4		3/4		
10	1,598.10		10	1,233.99		10	879.78		10	516.40		10	152.13		10			10		10		10		10		10		10		10		
1/4	1,590.52		1/4	1,226.41		1/4	872.42		1/4	508.81		1/4	144.54		1/4			1/4		1/4		1/4		1/4		1/4		1/4		1/4		
1/2	1,582.93		1/2	1,218.82		1/2	865.07		1/2	501.23		1/2	136.95		1/2			1/2		1/2		1/2		1/2		1/2		1/2		1/2		
3/4	1,575.34		3/4	1,211.34		3/4	857.59		3/4	493.64		3/4	129.37		3/4			3/4		3/4		3/4		3/4		3/4		3/4		3/4		
11	1,567.76		11	1,203.86		11	850.12		11	486.05		11	121.78		11			11		11		11		11		11		11		11		
1/4	1,560.17		1/4	1,196.38		1/4	842.65		1/4	478.46		1/4	114.19		1/4			1/4		1/4		1/4		1/4		1/4		1/4		1/4		
1/2	1,552.59		1/2	1,188.90		1/2	835.18		1/2	470.87		1/2	106.60		1/2			1/2		1/2		1/2		1/2		1/2		1/2		1/2		
3/4	1,545.00		3/4	1,181.52		3/4	827.59		3/4	463.28		3/4	99.03		3/4			3/4		3/4		3/4		3/4		3/4		3/4		3/4		

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/23/2013 CL
CALCULATED: 09/23/2013 CL
PRINTED: 09/24/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2013

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



BARGE "CTCo 318"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-03"

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	4,457.56	0	4,224.22	0	3,976.55	0	3,724.64	0	3,389.05	0	3,024.76	0	2,660.21	0	2,295.33
1/4	1/4		1/4	1/4	4,452.86	1/4	4,219.19	1/4	3,971.30	1/4	3,719.39	1/4	3,381.48	1/4	3,017.16	1/4	2,652.61	1/4	2,287.72
1/2	1/2		1/2	1/2	4,448.15	1/2	4,214.16	1/2	3,966.05	1/2	3,714.14	1/2	3,373.91	1/2	3,009.57	1/2	2,645.01	1/2	2,280.12
3/4	3/4		3/4	3/4	4,443.45	3/4	4,209.13	3/4	3,960.80	3/4	3,708.89	3/4	3,366.34	3/4	3,001.97	3/4	2,637.41	3/4	2,272.52
1		1		1	4,438.74	1	4,204.10	1	3,955.55	1	3,703.64	1	3,358.76	1	2,994.38	1	2,629.81	1	2,264.92
1/4	1/4		1/4	1/4	4,434.00	1/4	4,199.04	1/4	3,950.30	1/4	3,698.40	1/4	3,351.18	1/4	2,986.79	1/4	2,622.20	1/4	2,257.32
1/2	1/2		1/2	1/2	4,429.26	1/2	4,193.98	1/2	3,945.06	1/2	3,693.15	1/2	3,343.60	1/2	2,979.19	1/2	2,614.60	1/2	2,249.72
3/4	3/4		3/4	3/4	4,424.51	3/4	4,188.92	3/4	3,939.81	3/4	3,687.90	3/4	3,336.02	3/4	2,971.60	3/4	2,607.00	3/4	2,242.11
2		2		2	4,419.77	2	4,183.86	2	3,934.56	2	3,682.65	2	3,328.44	2	2,964.00	2	2,599.40	2	2,234.51
1/4	1/4		1/4	1/4	4,414.99	1/4	4,178.78	1/4	3,929.31	1/4	3,676.82	1/4	3,320.85	1/4	2,956.41	1/4	2,591.80	1/4	2,226.91
1/2	1/2		1/2	1/2	4,410.21	1/2	4,173.70	1/2	3,924.06	1/2	3,670.98	1/2	3,313.25	1/2	2,948.81	1/2	2,584.19	1/2	2,219.31
3/4	3/4		3/4	3/4	4,405.43	3/4	4,168.61	3/4	3,918.82	3/4	3,665.15	3/4	3,305.66	3/4	2,941.22	3/4	2,576.59	3/4	2,211.71
3		3		3	4,400.65	3	4,163.53	3	3,913.57	3	3,659.31	3	3,298.07	3	2,933.62	3	2,568.99	3	2,204.10
1/4	1/4		1/4	1/4	4,395.85	1/4	4,158.42	1/4	3,908.32	1/4	3,652.31	1/4	3,290.48	1/4	2,926.03	1/4	2,561.39	1/4	2,196.50
1/2	1/2		1/2	1/2	4,391.04	1/2	4,153.32	1/2	3,903.07	1/2	3,645.32	1/2	3,282.89	1/2	2,918.44	1/2	2,553.79	1/2	2,188.90
3/4	3/4		3/4	3/4	4,386.24	3/4	4,148.21	3/4	3,897.82	3/4	3,638.32	3/4	3,275.29	3/4	2,910.84	3/4	2,546.19	3/4	2,181.30
4		4		4	4,381.43	4	4,143.11	4	3,892.58	4	3,631.32	4	3,267.70	4	2,903.25	4	2,538.58	4	2,173.70
1/4	1/4		1/4	1/4	4,376.60	1/4	4,137.98	1/4	3,887.33	1/4	3,623.75	1/4	3,260.11	1/4	2,895.65	1/4	2,530.98	1/4	2,166.10
1/2	1/2		1/2	1/2	4,371.77	1/2	4,132.85	1/2	3,882.08	1/2	3,616.18	1/2	3,252.52	1/2	2,888.06	1/2	2,523.38	1/2	2,158.49
3/4	3/4		3/4	3/4	4,366.94	3/4	4,127.72	3/4	3,876.83	3/4	3,608.61	3/4	3,244.93	3/4	2,880.46	3/4	2,515.78	3/4	2,150.89
5		5		5	4,362.11	5	4,122.59	5	3,871.58	5	3,601.04	5	3,237.34	5	2,872.87	5	2,508.18	5	2,143.29
1/4	1/4		1/4	1/4	4,357.25	1/4	4,117.43	1/4	3,866.34	1/4	3,593.47	1/4	3,229.74	1/4	2,865.27	1/4	2,500.57	1/4	2,135.69
1/2	1/2		1/2	1/2	4,352.40	1/2	4,112.28	1/2	3,861.09	1/2	3,585.90	1/2	3,222.15	1/2	2,857.68	1/2	2,492.97	1/2	2,128.09
3/4	3/4		3/4	3/4	4,347.54	3/4	4,107.12	3/4	3,855.84	3/4	3,578.33	3/4	3,214.56	3/4	2,850.08	3/4	2,485.37	3/4	2,120.48
6		6		6	4,342.69	6	4,101.96	6	3,850.59	6	3,570.76	6	3,206.97	6	2,842.49	6	2,477.77	6	2,112.88
1/4	1/4		1/4	1/4	4,337.81	1/4	4,096.78	1/4	3,845.34	1/4	3,563.18	1/4	3,199.38	1/4	2,834.90	1/4	2,470.17	1/4	2,105.28
1/2	1/2		1/2	1/2	4,332.93	1/2	4,091.60	1/2	3,840.09	1/2	3,555.61	1/2	3,191.78	1/2	2,827.30	1/2	2,462.57	1/2	2,097.68
3/4	3/4		3/4	3/4	4,328.06	3/4	4,086.42	3/4	3,834.85	3/4	3,548.04	3/4	3,184.19	3/4	2,819.71	3/4	2,454.96	3/4	2,090.08
7		7		7	4,323.18	7	4,081.24	7	3,829.60	7	3,540.47	7	3,176.60	7	2,812.11	7	2,447.36	7	2,082.48
1/4	1/4		1/4	1/4	4,318.28	1/4	4,076.03	1/4	3,824.35	1/4	3,532.90	1/4	3,169.01	1/4	2,804.52	1/4	2,439.76	1/4	2,074.87
1/2	1/2		1/2	1/2	4,313.38	1/2	4,070.83	1/2	3,819.10	1/2	3,525.33	1/2	3,161.42	1/2	2,796.92	1/2	2,432.16	1/2	2,067.27
3/4	3/4		3/4	3/4	4,308.48	3/4	4,065.62	3/4	3,813.85	3/4	3,517.76	3/4	3,153.83	3/4	2,789.33	3/4	2,424.56	3/4	2,059.67
8		8		8	4,303.57	8	4,060.42	8	3,808.61	8	3,510.19	8	3,146.23	8	2,781.73	8	2,416.95	8	2,052.07
1/4	1/4		1/4	1/4	4,298.65	1/4	4,055.19	1/4	3,803.36	1/4	3,502.62	1/4	3,138.64	1/4	2,774.14	1/4	2,409.35	1/4	2,044.47
1/2	1/2		1/2	1/2	4,293.73	1/2	4,049.96	1/2	3,798.11	1/2	3,495.04	1/2	3,131.05	1/2	2,766.55	1/2	2,401.75	1/2	2,036.86
3/4	3/4		3/4	3/4	4,288.80	3/4	4,044.73	3/4	3,792.86	3/4	3,487.47	3/4	3,123.46	3/4	2,758.95	3/4	2,394.15	3/4	2,029.26
9		9		9	4,283.88	9	4,039.51	9	3,787.61	9	3,479.90	9	3,115.87	9	2,751.36	9	2,386.55	9	2,021.66
1/4	1/4		1/4	1/4	4,278.93	1/4	4,034.26	1/4	3,782.37	1/4	3,472.33	1/4	3,108.27	1/4	2,743.76	1/4	2,378.95	1/4	2,014.06
1/2	1/2		1/2	1/2	4,273.98	1/2	4,029.02	1/2	3,777.12	1/2	3,464.76	1/2	3,100.68	1/2	2,736.17	1/2	2,371.34	1/2	2,006.46
3/4	3/4		3/4	3/4	4,269.04	3/4	4,023.77	3/4	3,771.87	3/4	3,457.19	3/4	3,093.09	3/4	2,728.57	3/4	2,363.74	3/4	1,998.86
10		10		10	4,264.09	10	4,018.53	10	3,766.62	10	3,449.62	10	3,085.50	10	2,720.98	10	2,356.14	10	1,991.25
1/4	1/4		1/4	1/4	4,259.12	1/4	4,013.28	1/4	3,761.37	1/4	3,442.05	1/4	3,077.91	1/4	2,713.38	1/4	2,348.54	1/4	1,983.65
1/2	1/2		1/2	1/2	4,254.15	1/2	4,008.03	1/2	3,756.13	1/2	3,434.48	1/2	3,070.32	1/2	2,705.79	1/2	2,340.94	1/2	1,976.05
3/4	3/4		3/4	3/4	4,249.18	3/4	4,002.79	3/4	3,750.88	3/4	3,426.90	3/4	3,062.72	3/4	2,698.19	3/4	2,333.34	3/4	1,968.45
11		11		11	4,244.21	11	3,997.54	11	3,745.63	11	3,419.33	11	3,055.13	11	2,690.60	11	2,325.73	11	1,960.85
1/4	1/4		1/4	1/4	4,239.21	1/4	3,992.29	1/4	3,740.38	1/4	3,411.76	1/4	3,047.54	1/4	2,683.00	1/4	2,318.13	1/4	1,953.25
1/2	1/2		1/2	1/2	4,234.22	1/2	3,987.04	1/2	3,735.13	1/2	3,404.19	1/2	3,039.95	1/2	2,675.41	1/2	2,310.53	1/2	1,945.64
3/4	3/4		3/4	3/4	4,229.22	3/4	3,981.79	3/4	3,729.88	3/4	3,396.62	3/4	3,032.35	3/4	2,667.81	3/4	2,302.93	3/4	1,938.04

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 AT 2" DIAMETER OPENING ON "HERMETIC" CLOSED GAUGING VALVE.

GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "CTCo 318"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-03"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,930.44	0	1,565.55	0	1,200.67	0	836.33	0	471.46	0	106.61	0		0		0		0	
1/4	1,922.84	1/4	1,557.95	1/4	1,193.07	1/4	828.73	1/4	463.86	1/4	99.03	1/4		1/4		1/4		1/4	
1/2	1,915.24	1/2	1,550.35	1/2	1,185.46	1/2	821.13	1/2	456.26	1/2	91.46	1/2		1/2		1/2		1/2	
3/4	1,907.63	3/4	1,542.75	3/4	1,177.86	3/4	813.53	3/4	448.65	3/4	83.88	3/4		3/4		3/4		3/4	
1	1,900.03	1	1,535.15	1	1,170.26	1	805.92	1	441.05	1	76.30	1		1		1		1	
1/4	1,892.43	1/4	1,527.54	1/4	1,162.66	1/4	798.32	1/4	433.45	1/4	69.19	1/4		1/4		1/4		1/4	
1/2	1,884.83	1/2	1,519.94	1/2	1,155.06	1/2	790.72	1/2	425.85	1/2	62.09	1/2		1/2		1/2		1/2	
3/4	1,877.23	3/4	1,512.34	3/4	1,147.47	3/4	783.12	3/4	418.25	3/4	54.98	3/4		3/4		3/4		3/4	
2	1,869.63	2	1,504.74	2	1,139.87	2	775.52	2	410.65	2	47.87	2		2		2		2	
1/4	1,862.02	1/4	1,497.14	1/4	1,132.27	1/4	767.92	1/4	403.04	1/4	42.17	1/4		1/4		1/4		1/4	
1/2	1,854.42	1/2	1,489.54	1/2	1,124.68	1/2	760.32	1/2	395.44	1/2	36.47	1/2		1/2		1/2		1/2	
3/4	1,846.82	3/4	1,481.93	3/4	1,117.09	3/4	752.71	3/4	387.84	3/4	30.77	3/4		3/4		3/4		3/4	
3	1,839.22	3	1,474.33	3	1,109.49	3	745.11	3	380.24	3	25.07	3		3		3		3	
1/4	1,831.62	1/4	1,466.73	1/4	1,101.90	1/4	737.51	1/4	372.64	1/4		1/4		1/4		1/4		1/4	
1/2	1,824.01	1/2	1,459.13	1/2	1,094.31	1/2	729.91	1/2	365.04	1/2		1/2		1/2		1/2		1/2	
3/4	1,816.41	3/4	1,451.53	3/4	1,086.72	3/4	722.31	3/4	357.44	3/4		3/4		3/4		3/4		3/4	
4	1,808.81	4	1,443.92	4	1,079.13	4	714.71	4	349.83	4		4		4		4		4	
1/4	1,801.21	1/4	1,436.32	1/4	1,071.55	1/4	707.10	1/4	342.23	1/4		1/4		1/4		1/4		1/4	
1/2	1,793.61	1/2	1,428.72	1/2	1,063.96	1/2	699.50	1/2	334.63	1/2		1/2		1/2		1/2		1/2	
3/4	1,786.01	3/4	1,421.12	3/4	1,056.37	3/4	691.90	3/4	327.03	3/4		3/4		3/4		3/4		3/4	
5	1,778.40	5	1,413.52	5	1,048.79	5	684.30	5	319.43	5		5		5		5		5	
1/4	1,770.80	1/4	1,405.92	1/4	1,041.20	1/4	676.70	1/4	311.83	1/4		1/4		1/4		1/4		1/4	
1/2	1,763.20	1/2	1,398.31	1/2	1,033.61	1/2	669.10	1/2	304.23	1/2		1/2		1/2		1/2		1/2	
3/4	1,755.60	3/4	1,390.71	3/4	1,026.03	3/4	661.50	3/4	296.62	3/4		3/4		3/4		3/4		3/4	
6	1,748.00	6	1,383.11	6	1,018.44	6	653.89	6	289.02	6		6		6		6		6	
1/4	1,740.39	1/4	1,375.51	1/4	1,010.85	1/4	646.29	1/4	281.42	1/4		1/4		1/4		1/4		1/4	
1/2	1,732.79	1/2	1,367.91	1/2	1,003.27	1/2	638.69	1/2	273.82	1/2		1/2		1/2		1/2		1/2	
3/4	1,725.19	3/4	1,360.30	3/4	995.68	3/4	631.09	3/4	266.22	3/4		3/4		3/4		3/4		3/4	
7	1,717.59	7	1,352.70	7	988.09	7	623.49	7	258.62	7		7		7		7		7	
1/4	1,709.99	1/4	1,345.10	1/4	980.51	1/4	615.89	1/4	251.01	1/4		1/4		1/4		1/4		1/4	
1/2	1,702.39	1/2	1,337.50	1/2	972.92	1/2	608.29	1/2	243.41	1/2		1/2		1/2		1/2		1/2	
3/4	1,694.78	3/4	1,329.90	3/4	965.33	3/4	600.68	3/4	235.81	3/4		3/4		3/4		3/4		3/4	
8	1,687.18	8	1,322.30	8	957.75	8	593.08	8	228.21	8		8		8		8		8	
1/4	1,679.58	1/4	1,314.69	1/4	950.16	1/4	585.48	1/4	220.61	1/4		1/4		1/4		1/4		1/4	
1/2	1,671.98	1/2	1,307.09	1/2	942.58	1/2	577.88	1/2	213.01	1/2		1/2		1/2		1/2		1/2	
3/4	1,664.38	3/4	1,299.49	3/4	934.99	3/4	570.28	3/4	205.41	3/4		3/4		3/4		3/4		3/4	
9	1,656.77	9	1,291.89	9	927.40	9	562.68	9	197.80	9		9		9		9		9	
1/4	1,649.17	1/4	1,284.29	1/4	919.82	1/4	555.07	1/4	190.20	1/4		1/4		1/4		1/4		1/4	
1/2	1,641.57	1/2	1,276.68	1/2	912.23	1/2	547.47	1/2	182.60	1/2		1/2		1/2		1/2		1/2	
3/4	1,633.97	3/4	1,269.08	3/4	904.64	3/4	539.87	3/4	175.00	3/4		3/4		3/4		3/4		3/4	
10	1,626.37	10	1,261.48	10	897.06	10	532.27	10	167.40	10		10		10		10		10	
1/4	1,618.77	1/4	1,253.88	1/4	889.47	1/4	524.67	1/4	159.80	1/4		1/4		1/4		1/4		1/4	
1/2	1,611.16	1/2	1,246.28	1/2	881.88	1/2	517.07	1/2	152.20	1/2		1/2		1/2		1/2		1/2	
3/4	1,603.56	3/4	1,238.68	3/4	874.30	3/4	509.47	3/4	144.60	3/4		3/4		3/4		3/4		3/4	
11	1,595.96	11	1,231.07	11	866.71	11	501.86	11	136.99	11		11		11		11		11	
1/4	1,588.36	1/4	1,223.47	1/4	859.12	1/4	494.26	1/4	129.40	1/4		1/4		1/4		1/4		1/4	
1/2	1,580.76	1/2	1,215.87	1/2	851.52	1/2	486.66	1/2	121.80	1/2		1/2		1/2		1/2		1/2	
3/4	1,573.16	3/4	1,208.27	3/4	843.93	3/4	479.06	3/4	114.21	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/23/2013 CL
CALCULATED: 09/23/2013 CL
PRINTED: 09/24/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2013

PRECISION MEASUREMENT
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