



BARGE "HTCO 3132"

ULLAGE (HERMETIC)

	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	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-5/8	- 00-5/8	00-3/4	- 00-3/4	00-7/8	- 00-7/8
1 STBD	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-5/8	- 00-5/8	00-3/4	- 00-3/4	00-7/8	- 00-7/8
2 PORT	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-5/8	- 00-5/8	00-3/4	- 00-3/4	00-7/8	- 00-7/8
2 STBD	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-5/8	- 00-5/8	00-3/4	- 00-3/4	00-7/8	- 00-7/8
3 PORT	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-5/8	- 00-5/8	00-3/4	- 00-3/4
3 STBD	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-5/8	- 00-5/8	00-3/4	- 00-3/4

(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 - 00-1/4"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 3'-11 3/4"

LENGTH BETWEEN DRAFT MARKS: 237'-09"

August 8, 2019

**PRECISION MEASUREMENT
& ANALYSIS, INC.**

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HTCO 3132"

1 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	0	0	0	0	4,695.03	0	4,338.25	0	3,980.20	0	3,622.10	0	3,263.99	0	2,905.87	0	2,905.87
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,687.63	1/4	4,330.81	1/4	3,972.74	1/4	3,614.64	1/4	3,256.53	1/4	2,898.40	1/4	2,898.40
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,680.23	1/2	4,323.36	1/2	3,965.28	1/2	3,607.18	1/2	3,249.07	1/2	2,890.94	1/2	2,890.94
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,672.84	3/4	4,315.91	3/4	3,957.82	3/4	3,599.72	3/4	3,241.61	3/4	2,883.47	3/4	2,883.47
1	1	1	1	1	1	1	5,008.98	1	4,665.44	1	4,308.46	1	3,950.36	1	3,592.26	1	3,234.15	1	2,876.01
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,004.24	1/4	4,658.04	1/4	4,301.00	1/4	3,942.90	1/4	3,584.80	1/4	3,226.69	1/4	2,868.55
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,998.44	1/2	4,650.62	1/2	4,293.54	1/2	3,935.44	1/2	3,577.33	1/2	3,219.23	1/2	2,861.08
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,992.63	3/4	4,643.20	3/4	4,286.08	3/4	3,927.98	3/4	3,569.87	3/4	3,211.77	3/4	2,853.62
2	2	2	2	2	2	2	4,986.83	2	4,635.78	2	4,278.62	2	3,920.52	2	3,562.41	2	3,204.31	2	2,846.15
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,981.02	1/4	4,628.36	1/4	4,271.16	1/4	3,913.06	1/4	3,554.95	1/4	3,196.85	1/4	2,838.69
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,974.22	1/2	4,620.92	1/2	4,263.70	1/2	3,905.60	1/2	3,547.49	1/2	3,189.39	1/2	2,831.22
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,967.42	3/4	4,613.48	3/4	4,256.24	3/4	3,898.14	3/4	3,540.03	3/4	3,181.93	3/4	2,823.76
3	3	3	3	3	3	3	4,960.61	3	4,606.05	3	4,248.78	3	3,890.68	3	3,532.57	3	3,174.47	3	2,816.29
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,953.81	1/4	4,598.61	1/4	4,241.32	1/4	3,883.22	1/4	3,525.11	1/4	3,167.01	1/4	2,808.83
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,946.47	1/2	4,591.17	1/2	4,233.86	1/2	3,875.75	1/2	3,517.65	1/2	3,159.55	1/2	2,801.37
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,939.13	3/4	4,583.73	3/4	4,226.40	3/4	3,868.29	3/4	3,510.19	3/4	3,152.09	3/4	2,793.90
4	4	4	4	4	4	4	4,931.80	4	4,576.29	4	4,218.94	4	3,860.83	4	3,502.73	4	3,144.63	4	2,786.44
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,924.46	1/4	4,568.85	1/4	4,211.48	1/4	3,853.37	1/4	3,495.27	1/4	3,137.17	1/4	2,778.97
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,917.06	1/2	4,561.41	1/2	4,204.02	1/2	3,845.91	1/2	3,487.81	1/2	3,129.70	1/2	2,771.51
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,909.65	3/4	4,553.97	3/4	4,196.56	3/4	3,838.45	3/4	3,480.35	3/4	3,122.24	3/4	2,764.04
5	5	5	5	5	5	5	4,902.25	5	4,546.54	5	4,189.10	5	3,830.99	5	3,472.89	5	3,114.78	5	2,756.58
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,894.85	1/4	4,539.10	1/4	4,181.64	1/4	3,823.53	1/4	3,465.43	1/4	3,107.32	1/4	2,749.11
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,887.44	1/2	4,531.66	1/2	4,174.17	1/2	3,816.07	1/2	3,457.97	1/2	3,099.86	1/2	2,741.65
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,880.04	3/4	4,524.22	3/4	4,166.71	3/4	3,808.61	3/4	3,450.51	3/4	3,092.40	3/4	2,734.18
6	6	6	6	6	6	6	4,872.64	6	4,516.78	6	4,159.25	6	3,801.15	6	3,443.05	6	3,084.94	6	2,726.72
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,865.23	1/4	4,509.34	1/4	4,151.79	1/4	3,793.69	1/4	3,435.59	1/4	3,077.48	1/4	2,719.26
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,857.83	1/2	4,501.90	1/2	4,144.33	1/2	3,786.23	1/2	3,428.12	1/2	3,070.02	1/2	2,711.79
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,850.43	3/4	4,494.46	3/4	4,136.87	3/4	3,778.77	3/4	3,420.66	3/4	3,062.56	3/4	2,704.33
7	7	7	7	7	7	7	4,843.03	7	4,487.03	7	4,129.41	7	3,771.31	7	3,413.20	7	3,055.10	7	2,696.86
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,835.62	1/4	4,479.59	1/4	4,121.95	1/4	3,763.85	1/4	3,405.74	1/4	3,047.64	1/4	2,689.40
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,828.22	1/2	4,472.15	1/2	4,114.49	1/2	3,756.39	1/2	3,398.28	1/2	3,040.18	1/2	2,681.93
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,820.82	3/4	4,464.71	3/4	4,107.03	3/4	3,748.93	3/4	3,390.82	3/4	3,032.72	3/4	2,674.47
8	8	8	8	8	8	8	4,813.42	8	4,457.27	8	4,099.57	8	3,741.47	8	3,383.36	8	3,025.26	8	2,667.00
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,806.02	1/4	4,449.83	1/4	4,092.11	1/4	3,734.01	1/4	3,375.90	1/4	3,017.80	1/4	2,659.54
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,798.62	1/2	4,442.39	1/2	4,084.65	1/2	3,726.54	1/2	3,368.44	1/2	3,010.34	1/2	2,652.08
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,791.22	3/4	4,434.95	3/4	4,077.19	3/4	3,719.08	3/4	3,360.98	3/4	3,002.88	3/4	2,644.61
9	9	9	9	9	9	9	4,783.82	9	4,427.51	9	4,069.73	9	3,711.62	9	3,353.52	9	2,995.42	9	2,637.15
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,776.42	1/4	4,420.08	1/4	4,062.27	1/4	3,704.16	1/4	3,346.06	1/4	2,987.96	1/4	2,629.68
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,769.02	1/2	4,412.64	1/2	4,054.81	1/2	3,696.70	1/2	3,338.60	1/2	2,980.49	1/2	2,622.22
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,761.62	3/4	4,405.20	3/4	4,047.35	3/4	3,689.24	3/4	3,331.14	3/4	2,973.03	3/4	2,614.75
10	10	10	10	10	10	10	4,754.22	10	4,397.76	10	4,039.89	10	3,681.78	10	3,323.68	10	2,965.57	10	2,607.29
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,746.83	1/4	4,390.32	1/4	4,032.43	1/4	3,674.32	1/4	3,316.22	1/4	2,958.11	1/4	2,599.82
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,739.43	1/2	4,382.88	1/2	4,024.96	1/2	3,666.86	1/2	3,308.76	1/2	2,950.65	1/2	2,592.36
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,732.03	3/4	4,375.44	3/4	4,017.50	3/4	3,659.40	3/4	3,301.30	3/4	2,943.19	3/4	2,584.89
11	11	11	11	11	11	11	4,724.63	11	4,368.00	11	4,010.04	11	3,651.94	11	3,293.84	11	2,935.73	11	2,577.43
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,717.23	1/4	4,360.57	1/4	4,002.58	1/4	3,644.48	1/4	3,286.38	1/4	2,928.27	1/4	2,569.97
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,709.83	1/2	4,353.13	1/2	3,995.12	1/2	3,637.02	1/2	3,278.91	1/2	2,920.80	1/2	2,562.50
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,702.43	3/4	4,345.69	3/4	3,987.66	3/4	3,629.56	3/4	3,271.45	3/4	2,913.34	3/4	2,555.04

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 WITH "HERMETIC" DEVICE
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 46'-00" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
 & ANALYSIS, INC.
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BARGE "HTCO 3132"

1 PORT ULLAGE TABLE HERMETIC

GAUGE HEIGHT 17'-03 1/2"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,547.57	0	2,189.28	0	1,830.98	0	1,472.68	0	1,114.43	0	758.28	0	404.62	0	89.51	0			
1/4	2,540.11	1/4	2,181.81	1/4	1,823.52	1/4	1,465.22	1/4	1,106.98	1/4	750.84	1/4	397.56	1/4	83.40	1/4			
1/2	2,532.64	1/2	2,174.35	1/2	1,816.05	1/2	1,457.76	1/2	1,099.55	1/2	743.38	1/2	390.59	1/2	77.37	1/2			
3/4	2,525.18	3/4	2,166.88	3/4	1,808.59	3/4	1,450.29	3/4	1,092.11	3/4	735.91	3/4	383.61	3/4	71.34	3/4			
1	2,517.71	1	2,159.42	1	1,801.12	1	1,442.83	1	1,084.68	1	728.45	1	376.64	1	65.31	1			
1/4	2,510.25	1/4	2,151.95	1/4	1,793.66	1/4	1,435.36	1/4	1,077.24	1/4	720.98	1/4	369.66	1/4	59.28	1/4			
1/2	2,502.79	1/2	2,144.49	1/2	1,786.19	1/2	1,427.90	1/2	1,069.81	1/2	713.52	1/2	362.76	1/2	53.80	1/2			
3/4	2,495.32	3/4	2,137.02	3/4	1,778.73	3/4	1,420.43	3/4	1,062.39	3/4	706.06	3/4	355.86	3/4	48.31	3/4			
2	2,487.86	2	2,129.56	2	1,771.26	2	1,412.97	2	1,054.96	2	698.59	2	348.96	2	42.83	2			
1/4	2,480.39	1/4	2,122.10	1/4	1,763.80	1/4	1,405.50	1/4	1,047.53	1/4	691.13	1/4	342.06	1/4	37.35	1/4			
1/2	2,472.93	1/2	2,114.63	1/2	1,756.34	1/2	1,398.04	1/2	1,040.11	1/2	683.66	1/2	335.24	1/2	33.35	1/2			
3/4	2,465.46	3/4	2,107.17	3/4	1,748.87	3/4	1,390.57	3/4	1,032.69	3/4	676.20	3/4	328.41	3/4	29.35	3/4			
3	2,458.00	3	2,099.70	3	1,741.41	3	1,383.11	3	1,025.27	3	668.73	3	321.59	3	25.35	3			
1/4	2,450.53	1/4	2,092.24	1/4	1,733.94	1/4	1,375.65	1/4	1,017.85	1/4	661.27	1/4	314.76	1/4	21.35	1/4			
1/2	2,443.07	1/2	2,084.77	1/2	1,726.48	1/2	1,368.18	1/2	1,010.43	1/2	653.81	1/2	308.01	1/2	18.44	1/2			
3/4	2,435.60	3/4	2,077.31	3/4	1,719.01	3/4	1,360.72	3/4	1,003.01	3/4	646.34	3/4	301.27	3/4		3/4			
4	2,428.14	4	2,069.84	4	1,711.55	4	1,353.25	4	995.60	4	638.88	4	294.52	4		4			
1/4	2,420.68	1/4	2,062.38	1/4	1,704.08	1/4	1,345.79	1/4	988.18	1/4	631.41	1/4	287.78	1/4		1/4			
1/2	2,413.21	1/2	2,054.92	1/2	1,696.62	1/2	1,338.32	1/2	980.77	1/2	623.95	1/2	281.11	1/2		1/2			
3/4	2,405.75	3/4	2,047.45	3/4	1,689.15	3/4	1,330.86	3/4	973.35	3/4	616.48	3/4	274.45	3/4		3/4			
5	2,398.28	5	2,039.99	5	1,681.69	5	1,323.39	5	965.94	5	609.02	5	267.78	5		5			
1/4	2,390.82	1/4	2,032.52	1/4	1,674.23	1/4	1,315.93	1/4	958.52	1/4	601.56	1/4	261.12	1/4		1/4			
1/2	2,383.35	1/2	2,025.06	1/2	1,666.76	1/2	1,308.47	1/2	951.11	1/2	594.09	1/2	254.53	1/2		1/2			
3/4	2,375.89	3/4	2,017.59	3/4	1,659.30	3/4	1,301.00	3/4	943.70	3/4	586.63	3/4	247.95	3/4		3/4			
6	2,368.42	6	2,010.13	6	1,651.83	6	1,293.54	6	936.28	6	579.16	6	241.36	6		6			
1/4	2,360.96	1/4	2,002.66	1/4	1,644.37	1/4	1,286.07	1/4	928.87	1/4	571.70	1/4	234.78	1/4		1/4			
1/2	2,353.50	1/2	1,995.20	1/2	1,636.90	1/2	1,278.61	1/2	921.46	1/2	564.26	1/2	228.28	1/2		1/2			
3/4	2,346.03	3/4	1,987.73	3/4	1,629.44	3/4	1,271.14	3/4	914.04	3/4	556.81	3/4	221.77	3/4		3/4			
7	2,338.57	7	1,980.27	7	1,621.97	7	1,263.68	7	906.63	7	549.37	7	215.27	7		7			
1/4	2,331.10	1/4	1,972.81	1/4	1,614.51	1/4	1,256.21	1/4	899.22	1/4	541.93	1/4	208.77	1/4		1/4			
1/2	2,323.64	1/2	1,965.34	1/2	1,607.05	1/2	1,248.75	1/2	891.80	1/2	534.55	1/2	202.35	1/2		1/2			
3/4	2,316.17	3/4	1,957.88	3/4	1,599.58	3/4	1,241.28	3/4	884.39	3/4	527.17	3/4	195.93	3/4		3/4			
8	2,308.71	8	1,950.41	8	1,592.12	8	1,233.82	8	876.97	8	519.79	8	189.51	8		8			
1/4	2,301.24	1/4	1,942.95	1/4	1,584.65	1/4	1,226.36	1/4	869.56	1/4	512.41	1/4	183.09	1/4		1/4			
1/2	2,293.78	1/2	1,935.48	1/2	1,577.19	1/2	1,218.89	1/2	862.15	1/2	505.11	1/2	176.74	1/2		1/2			
3/4	2,286.31	3/4	1,928.02	3/4	1,569.72	3/4	1,211.43	3/4	854.73	3/4	497.81	3/4	170.40	3/4		3/4			
9	2,278.85	9	1,920.55	9	1,562.26	9	1,203.96	9	847.32	9	490.51	9	164.05	9		9			
1/4	2,271.39	1/4	1,913.09	1/4	1,554.79	1/4	1,196.50	1/4	839.91	1/4	483.21	1/4	157.70	1/4		1/4			
1/2	2,263.92	1/2	1,905.63	1/2	1,547.33	1/2	1,189.03	1/2	832.49	1/2	475.99	1/2	151.43	1/2		1/2			
3/4	2,256.46	3/4	1,898.16	3/4	1,539.86	3/4	1,181.57	3/4	825.08	3/4	468.77	3/4	145.16	3/4		3/4			
10	2,248.99	10	1,890.70	10	1,532.40	10	1,174.10	10	817.67	10	461.55	10	138.89	10		10			
1/4	2,241.53	1/4	1,883.23	1/4	1,524.94	1/4	1,166.64	1/4	810.25	1/4	454.34	1/4	132.61	1/4		1/4			
1/2	2,234.06	1/2	1,875.77	1/2	1,517.47	1/2	1,159.18	1/2	802.84	1/2	447.20	1/2	126.42	1/2		1/2			
3/4	2,226.60	3/4	1,868.30	3/4	1,510.01	3/4	1,151.71	3/4	795.43	3/4	440.06	3/4	120.23	3/4		3/4			
11	2,219.13	11	1,860.84	11	1,502.54	11	1,144.25	11	788.01	11	432.92	11	114.04	11		11			
1/4	2,211.67	1/4	1,853.37	1/4	1,495.08	1/4	1,136.78	1/4	780.60	1/4	425.78	1/4	107.85	1/4		1/4			
1/2	2,204.21	1/2	1,845.91	1/2	1,487.61	1/2	1,129.33	1/2	773.16	1/2	418.73	1/2	101.73	1/2		1/2			
3/4	2,196.74	3/4	1,838.44	3/4	1,480.15	3/4	1,121.88	3/4	765.72	3/4	411.67	3/4	95.62	3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/02/2014 CL
RECALCULATED: 08/08/2019 CL
REPRINTED: 08/08/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2019

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



BARGE "HTCO 3132"

1 STBD ULLAGE TABLE HERMETIC GAUGE HEIGHT 17'-03"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0		0	4,681.91	0	4,325.04	0	3,966.96	0	3,608.87	0	3,250.77	0	2,892.67
1/4		1/4		1/4		1/4		1/4	4,674.51	1/4	4,317.58	1/4	3,959.50	1/4	3,601.41	1/4	3,243.31	1/4	2,885.20
1/2		1/2		1/2		1/2		1/2	5,010.63	1/2	4,667.11	1/2	4,310.13	1/2	3,952.04	1/2	3,235.85	1/2	2,877.74
3/4		3/4		3/4		3/4		3/4	5,005.89	3/4	4,659.71	3/4	4,302.68	3/4	3,944.58	3/4	3,228.39	3/4	2,870.27
1		1		1		1		1	5,000.09	1	4,652.29	1	4,295.22	1	3,937.12	1	3,220.92	1	2,862.81
1/4		1/4		1/4		1/4		1/4	4,994.29	1/4	4,644.87	1/4	4,287.76	1/4	3,929.66	1/4	3,213.46	1/4	2,855.34
1/2		1/2		1/2		1/2		1/2	4,988.48	1/2	4,637.45	1/2	4,280.30	1/2	3,922.20	1/2	3,206.00	1/2	2,847.88
3/4		3/4		3/4		3/4		3/4	4,982.68	3/4	4,630.03	3/4	4,272.84	3/4	3,914.74	3/4	3,198.54	3/4	2,840.42
2		2		2		2		2	4,975.88	2	4,622.60	2	4,265.38	2	3,907.28	2	3,191.08	2	2,832.95
1/4		1/4		1/4		1/4		1/4	4,969.07	1/4	4,615.16	1/4	4,257.92	1/4	3,899.82	1/4	3,541.72	1/4	2,825.49
1/2		1/2		1/2		1/2		1/2	4,962.27	1/2	4,607.72	1/2	4,250.46	1/2	3,892.36	1/2	3,534.26	1/2	2,818.02
3/4		3/4		3/4		3/4		3/4	4,955.47	3/4	4,600.28	3/4	4,243.00	3/4	3,884.90	3/4	3,526.80	3/4	2,810.56
3		3		3		3		3	4,948.13	3	4,592.84	3	4,235.54	3	3,877.44	3	3,519.34	3	2,803.09
1/4		1/4		1/4		1/4		1/4	4,940.80	1/4	4,585.40	1/4	4,228.08	1/4	3,869.98	1/4	3,511.88	1/4	2,795.63
1/2		1/2		1/2		1/2		1/2	4,933.46	1/2	4,577.96	1/2	4,220.62	1/2	3,862.52	1/2	3,504.42	1/2	2,788.16
3/4		3/4		3/4		3/4		3/4	4,926.13	3/4	4,570.52	3/4	4,213.16	3/4	3,855.06	3/4	3,496.96	3/4	2,780.70
4		4		4		4		4	4,918.73	4	4,563.09	4	4,205.70	4	3,847.60	4	3,489.50	4	2,773.24
1/4		1/4		1/4		1/4		1/4	4,911.32	1/4	4,555.65	1/4	4,198.24	1/4	3,840.14	1/4	3,482.04	1/4	2,765.77
1/2		1/2		1/2		1/2		1/2	4,903.92	1/2	4,548.21	1/2	4,190.78	1/2	3,832.68	1/2	3,474.58	1/2	2,758.31
3/4		3/4		3/4		3/4		3/4	4,896.52	3/4	4,540.77	3/4	4,183.32	3/4	3,825.22	3/4	3,467.12	3/4	2,750.84
5		5		5		5		5	4,889.11	5	4,533.33	5	4,175.86	5	3,817.76	5	3,459.66	5	2,743.38
1/4		1/4		1/4		1/4		1/4	4,881.71	1/4	4,525.89	1/4	4,168.40	1/4	3,810.30	1/4	3,452.20	1/4	2,735.91
1/2		1/2		1/2		1/2		1/2	4,874.31	1/2	4,518.45	1/2	4,160.94	1/2	3,802.84	1/2	3,444.74	1/2	2,728.45
3/4		3/4		3/4		3/4		3/4	4,866.90	3/4	4,511.01	3/4	4,153.47	3/4	3,795.38	3/4	3,437.28	3/4	2,720.98
6		6		6		6		6	4,859.50	6	4,503.58	6	4,146.01	6	3,787.92	6	3,429.82	6	2,713.52
1/4		1/4		1/4		1/4		1/4	4,852.10	1/4	4,496.14	1/4	4,138.55	1/4	3,780.45	1/4	3,422.36	1/4	2,706.05
1/2		1/2		1/2		1/2		1/2	4,844.70	1/2	4,488.70	1/2	4,131.09	1/2	3,772.99	1/2	3,414.90	1/2	2,698.59
3/4		3/4		3/4		3/4		3/4	4,837.29	3/4	4,481.26	3/4	4,123.63	3/4	3,765.53	3/4	3,407.43	3/4	2,691.13
7		7		7		7		7	4,829.89	7	4,473.82	7	4,116.17	7	3,758.07	7	3,399.97	7	2,683.66
1/4		1/4		1/4		1/4		1/4	4,822.49	1/4	4,466.38	1/4	4,108.71	1/4	3,750.61	1/4	3,392.51	1/4	2,676.20
1/2		1/2		1/2		1/2		1/2	4,815.09	1/2	4,458.94	1/2	4,101.25	1/2	3,743.15	1/2	3,385.05	1/2	2,668.73
3/4		3/4		3/4		3/4		3/4	4,807.69	3/4	4,451.51	3/4	4,093.79	3/4	3,735.69	3/4	3,377.59	3/4	2,661.27
8		8		8		8		8	4,800.29	8	4,444.07	8	4,086.33	8	3,728.23	8	3,370.13	8	2,653.80
1/4		1/4		1/4		1/4		1/4	4,792.89	1/4	4,436.63	1/4	4,078.87	1/4	3,720.77	1/4	3,362.67	1/4	2,646.34
1/2		1/2		1/2		1/2		1/2	4,785.49	1/2	4,429.19	1/2	4,071.41	1/2	3,713.31	1/2	3,355.21	1/2	2,638.87
3/4		3/4		3/4		3/4		3/4	4,778.09	3/4	4,421.75	3/4	4,063.95	3/4	3,705.85	3/4	3,347.75	3/4	2,631.41
9		9		9		9		9	4,770.69	9	4,414.31	9	4,056.49	9	3,698.39	9	3,340.29	9	2,623.95
1/4		1/4		1/4		1/4		1/4	4,763.30	1/4	4,406.87	1/4	4,049.03	1/4	3,690.93	1/4	3,332.83	1/4	2,616.48
1/2		1/2		1/2		1/2		1/2	4,755.90	1/2	4,399.43	1/2	4,041.57	1/2	3,683.47	1/2	3,325.37	1/2	2,609.02
3/4		3/4		3/4		3/4		3/4	4,748.50	3/4	4,392.00	3/4	4,034.11	3/4	3,676.01	3/4	3,317.91	3/4	2,601.55
10		10		10		10		10	4,741.10	10	4,384.56	10	4,026.65	10	3,668.55	10	3,310.45	10	2,594.09
1/4		1/4		1/4		1/4		1/4	4,733.70	1/4	4,377.12	1/4	4,019.19	1/4	3,661.09	1/4	3,302.99	1/4	2,586.62
1/2		1/2		1/2		1/2		1/2	4,726.30	1/2	4,369.68	1/2	4,011.73	1/2	3,653.63	1/2	3,295.53	1/2	2,579.16
3/4		3/4		3/4		3/4		3/4	4,718.90	3/4	4,362.24	3/4	4,004.27	3/4	3,646.17	3/4	3,288.07	3/4	2,571.69
11		11		11		11		11	4,711.50	11	4,354.80	11	3,996.81	11	3,638.71	11	3,280.61	11	2,564.23
1/4		1/4		1/4		1/4		1/4	4,704.10	1/4	4,347.36	1/4	3,989.35	1/4	3,631.25	1/4	3,273.15	1/4	2,556.76
1/2		1/2		1/2		1/2		1/2	4,696.70	1/2	4,339.92	1/2	3,981.89	1/2	3,623.79	1/2	3,265.69	1/2	2,549.30
3/4		3/4		3/4		3/4		3/4	4,689.31	3/4	4,332.49	3/4	3,974.43	3/4	3,616.33	3/4	3,258.23	3/4	2,541.84

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 WITH "HERMETIC" DEVICE
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 46'-00" FORWARD OF AFT BULKHEAD

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



BARGE "HTCO 3132"

1 STBD

ULLAGE TABLE
HERMETIC

GAUGE HEIGHT 17'-03"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,534.37	0	2,176.08	0	1,817.78	0	1,459.48	0	1,101.19	0	743.39	0	390.66	0	77.39	0		0	
1/4	2,526.91	1/4	2,168.61	1/4	1,810.31	1/4	1,452.02	1/4	1,093.72	1/4	735.93	1/4	383.68	1/4	71.36	1/4		1/4	
1/2	2,519.44	1/2	2,161.15	1/2	1,802.85	1/2	1,444.55	1/2	1,086.26	1/2	728.46	1/2	376.71	1/2	65.33	1/2		1/2	
3/4	2,511.98	3/4	2,153.68	3/4	1,795.39	3/4	1,437.09	3/4	1,078.79	3/4	721.00	3/4	369.73	3/4	59.30	3/4		3/4	
1	2,504.51	1	2,146.22	1	1,787.92	1	1,429.63	1	1,071.33	1	713.53	1	362.83	1	53.81	1		1	
1/4	2,497.05	1/4	2,138.75	1/4	1,780.46	1/4	1,422.16	1/4	1,063.87	1/4	706.07	1/4	355.93	1/4	48.33	1/4		1/4	
1/2	2,489.58	1/2	2,131.29	1/2	1,772.99	1/2	1,414.70	1/2	1,056.41	1/2	698.61	1/2	349.03	1/2	42.84	1/2		1/2	
3/4	2,482.12	3/4	2,123.82	3/4	1,765.53	3/4	1,407.23	3/4	1,048.95	3/4	691.14	3/4	342.13	3/4	37.36	3/4		3/4	
2	2,474.66	2	2,116.36	2	1,758.06	2	1,399.77	2	1,041.49	2	683.68	2	335.30	2	33.36	2		2	
1/4	2,467.19	1/4	2,108.89	1/4	1,750.60	1/4	1,392.30	1/4	1,034.03	1/4	676.21	1/4	328.48	1/4	29.36	1/4		1/4	
1/2	2,459.73	1/2	2,101.43	1/2	1,743.13	1/2	1,384.84	1/2	1,026.58	1/2	668.75	1/2	321.65	1/2	25.35	1/2		1/2	
3/4	2,452.26	3/4	2,093.97	3/4	1,735.67	3/4	1,377.37	3/4	1,019.12	3/4	661.28	3/4	314.82	3/4	21.35	3/4		3/4	
3	2,444.80	3	2,086.50	3	1,728.21	3	1,369.91	3	1,011.66	3	653.82	3	308.08	3	18.44	3		3	
1/4	2,437.33	1/4	2,079.04	1/4	1,720.74	1/4	1,362.44	1/4	1,004.21	1/4	646.36	1/4	301.33	1/4		1/4		1/4	
1/2	2,429.87	1/2	2,071.57	1/2	1,713.28	1/2	1,354.98	1/2	996.76	1/2	638.89	1/2	294.58	1/2		1/2		1/2	
3/4	2,422.40	3/4	2,064.11	3/4	1,705.81	3/4	1,347.52	3/4	989.30	3/4	631.43	3/4	287.84	3/4		3/4		3/4	
4	2,414.94	4	2,056.64	4	1,698.35	4	1,340.05	4	981.85	4	623.96	4	281.17	4		4		4	
1/4	2,407.47	1/4	2,049.18	1/4	1,690.88	1/4	1,332.59	1/4	974.40	1/4	616.50	1/4	274.50	1/4		1/4		1/4	
1/2	2,400.01	1/2	2,041.71	1/2	1,683.42	1/2	1,325.12	1/2	966.95	1/2	609.03	1/2	267.84	1/2		1/2		1/2	
3/4	2,392.55	3/4	2,034.25	3/4	1,675.95	3/4	1,317.66	3/4	959.50	3/4	601.57	3/4	261.17	3/4		3/4		3/4	
5	2,385.08	5	2,026.79	5	1,668.49	5	1,310.19	5	952.05	5	594.11	5	254.59	5		5		5	
1/4	2,377.62	1/4	2,019.32	1/4	1,661.02	1/4	1,302.73	1/4	944.60	1/4	586.64	1/4	248.00	1/4		1/4		1/4	
1/2	2,370.15	1/2	2,011.86	1/2	1,653.56	1/2	1,295.26	1/2	937.15	1/2	579.18	1/2	241.42	1/2		1/2		1/2	
3/4	2,362.69	3/4	2,004.39	3/4	1,646.10	3/4	1,287.80	3/4	929.70	3/4	571.71	3/4	234.83	3/4		3/4		3/4	
6	2,355.22	6	1,996.93	6	1,638.63	6	1,280.34	6	922.25	6	564.27	6	228.33	6		6		6	
1/4	2,347.76	1/4	1,989.46	1/4	1,631.17	1/4	1,272.87	1/4	914.80	1/4	556.84	1/4	221.83	1/4		1/4		1/4	
1/2	2,340.29	1/2	1,982.00	1/2	1,623.70	1/2	1,265.41	1/2	907.34	1/2	549.40	1/2	215.32	1/2		1/2		1/2	
3/4	2,332.83	3/4	1,974.53	3/4	1,616.24	3/4	1,257.94	3/4	899.89	3/4	541.96	3/4	208.82	3/4		3/4		3/4	
7	2,325.37	7	1,967.07	7	1,608.77	7	1,250.48	7	892.44	7	534.59	7	202.40	7		7		7	
1/4	2,317.90	1/4	1,959.60	1/4	1,601.31	1/4	1,243.01	1/4	884.99	1/4	527.22	1/4	195.98	1/4		1/4		1/4	
1/2	2,310.44	1/2	1,952.14	1/2	1,593.84	1/2	1,235.55	1/2	877.54	1/2	519.84	1/2	189.55	1/2		1/2		1/2	
3/4	2,302.97	3/4	1,944.68	3/4	1,586.38	3/4	1,228.08	3/4	870.09	3/4	512.47	3/4	183.13	3/4		3/4		3/4	
8	2,295.51	8	1,937.21	8	1,578.92	8	1,220.62	8	862.64	8	505.17	8	176.79	8		8		8	
1/4	2,288.04	1/4	1,929.75	1/4	1,571.45	1/4	1,213.15	1/4	855.19	1/4	497.88	1/4	170.44	1/4		1/4		1/4	
1/2	2,280.58	1/2	1,922.28	1/2	1,563.99	1/2	1,205.69	1/2	847.74	1/2	490.58	1/2	164.09	1/2		1/2		1/2	
3/4	2,273.11	3/4	1,914.82	3/4	1,556.52	3/4	1,198.23	3/4	840.29	3/4	483.29	3/4	157.74	3/4		3/4		3/4	
9	2,265.65	9	1,907.35	9	1,549.06	9	1,190.76	9	832.84	9	476.07	9	151.47	9		9		9	
1/4	2,258.18	1/4	1,899.89	1/4	1,541.59	1/4	1,183.30	1/4	825.39	1/4	468.85	1/4	145.20	1/4		1/4		1/4	
1/2	2,250.72	1/2	1,892.42	1/2	1,534.13	1/2	1,175.83	1/2	817.94	1/2	461.63	1/2	138.92	1/2		1/2		1/2	
3/4	2,243.26	3/4	1,884.96	3/4	1,526.66	3/4	1,168.37	3/4	810.49	3/4	454.41	3/4	132.65	3/4		3/4		3/4	
10	2,235.79	10	1,877.50	10	1,519.20	10	1,160.90	10	803.04	10	447.27	10	126.46	10		10		10	
1/4	2,228.33	1/4	1,870.03	1/4	1,511.73	1/4	1,153.44	1/4	795.59	1/4	440.13	1/4	120.26	1/4		1/4		1/4	
1/2	2,220.86	1/2	1,862.57	1/2	1,504.27	1/2	1,145.97	1/2	788.13	1/2	433.00	1/2	114.07	1/2		1/2		1/2	
3/4	2,213.40	3/4	1,855.10	3/4	1,496.81	3/4	1,138.51	3/4	780.68	3/4	425.86	3/4	107.87	3/4		3/4		3/4	
11	2,205.93	11	1,847.64	11	1,489.34	11	1,131.05	11	773.23	11	418.80	11	101.76	11		11		11	
1/4	2,198.47	1/4	1,840.17	1/4	1,481.88	1/4	1,123.58	1/4	765.77	1/4	411.74	1/4	95.65	1/4		1/4		1/4	
1/2	2,191.00	1/2	1,832.71	1/2	1,474.41	1/2	1,116.12	1/2	758.31	1/2	404.69	1/2	89.54	1/2		1/2		1/2	
3/4	2,183.54	3/4	1,825.24	3/4	1,466.95	3/4	1,108.65	3/4	750.86	3/4	397.63	3/4	83.42	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/02/2014 CL
RECALCULATED: 08/08/2019 CL
REPRINTED: 08/08/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2019

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



BARGE "HTCO 3132"

2 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	0	0	0	0	0	0	4,755.37	0	4,397.84	0	4,039.07	0	3,680.27	0	3,321.47	0	2,962.67
1/4		1/4		1/4		1/4		1/4	4,747.95	1/4	4,390.37	1/4	4,031.60	1/4	3,672.80	1/4	3,314.00	1/4	2,955.19
1/2		1/2		1/2		1/2		1/2	4,740.54	1/2	4,382.91	1/2	4,024.12	1/2	3,665.32	1/2	3,306.52	1/2	2,947.71
3/4		3/4		3/4		3/4		3/4	5,077.35	3/4	4,733.12	3/4	4,375.44	3/4	4,016.65	3/4	3,657.85	3/4	3,299.05
1	1	1	1	1	5,072.60	1	4,725.71	1	4,367.97	1	4,009.17	1	3,650.37	1	3,291.57	1	2,932.76		
1/4		1/4		1/4		1/4		1/4	5,066.78	1/4	4,718.28	1/4	4,360.50	1/4	4,001.70	1/4	3,642.90	1/4	3,284.10
1/2		1/2		1/2		1/2		1/2	5,060.97	1/2	4,710.84	1/2	4,353.02	1/2	3,994.22	1/2	3,635.42	1/2	3,276.62
3/4		3/4		3/4		3/4		3/4	5,055.15	3/4	4,703.41	3/4	4,345.55	3/4	3,986.75	3/4	3,627.95	3/4	3,269.15
2	2	2	2	2	5,049.34	2	4,695.98	2	4,338.07	2	3,979.27	2	3,620.47	2	3,261.67	2	2,902.84		
1/4		1/4		1/4		1/4		1/4	5,042.52	1/4	4,688.52	1/4	4,330.60	1/4	3,971.80	1/4	3,613.00	1/4	3,254.20
1/2		1/2		1/2		1/2		1/2	5,035.70	1/2	4,681.07	1/2	4,323.12	1/2	3,964.32	1/2	3,605.52	1/2	3,246.72
3/4		3/4		3/4		3/4		3/4	5,028.89	3/4	4,673.62	3/4	4,315.65	3/4	3,956.85	3/4	3,598.05	3/4	3,239.25
3	3	3	3	3	5,022.07	3	4,666.16	3	4,308.17	3	3,949.37	3	3,590.57	3	3,231.77	3	2,872.92		
1/4		1/4		1/4		1/4		1/4	5,014.72	1/4	4,658.71	1/4	4,300.70	1/4	3,941.90	1/4	3,583.10	1/4	3,224.30
1/2		1/2		1/2		1/2		1/2	5,007.36	1/2	4,651.26	1/2	4,293.22	1/2	3,934.42	1/2	3,575.62	1/2	3,216.82
3/4		3/4		3/4		3/4		3/4	5,000.01	3/4	4,643.80	3/4	4,285.75	3/4	3,926.95	3/4	3,568.15	3/4	3,209.35
4	4	4	4	4	4,992.66	4	4,636.35	4	4,278.27	4	3,919.47	4	3,560.67	4	3,201.87	4	2,843.01		
1/4		1/4		1/4		1/4		1/4	4,985.24	1/4	4,628.90	1/4	4,270.80	1/4	3,912.00	1/4	3,553.20	1/4	3,194.40
1/2		1/2		1/2		1/2		1/2	4,977.83	1/2	4,621.44	1/2	4,263.32	1/2	3,904.52	1/2	3,545.72	1/2	3,186.92
3/4		3/4		3/4		3/4		3/4	4,970.41	3/4	4,613.99	3/4	4,255.85	3/4	3,897.05	3/4	3,538.25	3/4	3,179.45
5	5	5	5	5	4,962.99	5	4,606.54	5	4,248.37	5	3,889.57	5	3,530.77	5	3,171.97	5	2,813.09		
1/4		1/4		1/4		1/4		1/4	4,955.57	1/4	4,599.08	1/4	4,240.90	1/4	3,882.10	1/4	3,523.30	1/4	3,164.50
1/2		1/2		1/2		1/2		1/2	4,948.15	1/2	4,591.63	1/2	4,233.42	1/2	3,874.62	1/2	3,515.82	1/2	3,157.02
3/4		3/4		3/4		3/4		3/4	4,940.74	3/4	4,584.18	3/4	4,225.95	3/4	3,867.15	3/4	3,508.35	3/4	3,149.55
6	6	6	6	6	4,933.32	6	4,576.72	6	4,218.47	6	3,859.67	6	3,500.87	6	3,142.07	6	2,783.17		
1/4		1/4		1/4		1/4		1/4	4,925.90	1/4	4,569.27	1/4	4,211.00	1/4	3,852.20	1/4	3,493.40	1/4	3,134.60
1/2		1/2		1/2		1/2		1/2	4,918.48	1/2	4,561.82	1/2	4,203.52	1/2	3,844.72	1/2	3,485.92	1/2	3,127.12
3/4		3/4		3/4		3/4		3/4	4,911.07	3/4	4,554.36	3/4	4,196.05	3/4	3,837.25	3/4	3,478.45	3/4	3,119.65
7	7	7	7	7	4,903.65	7	4,546.91	7	4,188.57	7	3,829.77	7	3,470.97	7	3,112.17	7	2,753.26		
1/4		1/4		1/4		1/4		1/4	4,896.23	1/4	4,539.46	1/4	4,181.10	1/4	3,822.30	1/4	3,463.50	1/4	3,104.70
1/2		1/2		1/2		1/2		1/2	4,888.82	1/2	4,532.00	1/2	4,173.62	1/2	3,814.82	1/2	3,456.02	1/2	3,097.22
3/4		3/4		3/4		3/4		3/4	4,881.40	3/4	4,524.55	3/4	4,166.15	3/4	3,807.35	3/4	3,448.55	3/4	3,089.75
8	8	8	8	8	4,873.99	8	4,517.10	8	4,158.67	8	3,799.87	8	3,441.07	8	3,082.27	8	2,723.34		
1/4		1/4		1/4		1/4		1/4	4,866.57	1/4	4,509.64	1/4	4,151.20	1/4	3,792.40	1/4	3,433.60	1/4	3,074.80
1/2		1/2		1/2		1/2		1/2	4,859.16	1/2	4,502.19	1/2	4,143.72	1/2	3,784.92	1/2	3,426.12	1/2	3,067.32
3/4		3/4		3/4		3/4		3/4	4,851.74	3/4	4,494.74	3/4	4,136.25	3/4	3,777.45	3/4	3,418.65	3/4	3,059.85
9	9	9	9	9	4,844.33	9	4,487.28	9	4,128.77	9	3,769.97	9	3,411.17	9	3,052.37	9	2,693.42		
1/4		1/4		1/4		1/4		1/4	4,836.92	1/4	4,479.83	1/4	4,121.30	1/4	3,762.50	1/4	3,403.70	1/4	3,044.90
1/2		1/2		1/2		1/2		1/2	4,829.50	1/2	4,472.38	1/2	4,113.82	1/2	3,755.02	1/2	3,396.22	1/2	3,037.42
3/4		3/4		3/4		3/4		3/4	4,822.09	3/4	4,464.92	3/4	4,106.35	3/4	3,747.55	3/4	3,388.75	3/4	3,029.95
10	10	10	10	10	4,814.68	10	4,457.47	10	4,098.87	10	3,740.07	10	3,381.27	10	3,022.47	10	2,663.51		
1/4		1/4		1/4		1/4		1/4	4,807.26	1/4	4,450.02	1/4	4,091.40	1/4	3,732.60	1/4	3,373.80	1/4	3,015.00
1/2		1/2		1/2		1/2		1/2	4,799.85	1/2	4,442.56	1/2	4,083.92	1/2	3,725.12	1/2	3,366.32	1/2	3,007.52
3/4		3/4		3/4		3/4		3/4	4,792.43	3/4	4,435.11	3/4	4,076.45	3/4	3,717.65	3/4	3,358.85	3/4	3,000.05
11	11	11	11	11	4,785.02	11	4,427.66	11	4,068.97	11	3,710.17	11	3,351.37	11	2,992.57	11	2,633.59		
1/4		1/4		1/4		1/4		1/4	4,777.61	1/4	4,420.20	1/4	4,061.50	1/4	3,702.70	1/4	3,343.90	1/4	2,985.10
1/2		1/2		1/2		1/2		1/2	4,770.19	1/2	4,412.75	1/2	4,054.02	1/2	3,695.22	1/2	3,336.42	1/2	2,977.62
3/4		3/4		3/4		3/4		3/4	4,762.78	3/4	4,405.29	3/4	4,046.55	3/4	3,687.75	3/4	3,328.95	3/4	2,970.15

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 WITH "HERMETIC" DEVICE
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 46'-00" FORWARD OF AFT BULKHEAD

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



BARGE "HTCO 3132"

2 PORT ULLAGE TABLE HERMETIC

GAUGE HEIGHT 17'-03 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,603.67	0	2,244.68	0	1,885.68	0	1,526.68	0	1,168.25	0	823.04	0	464.06	0	105.07	0			
1/4	2,596.20	1/4	2,237.20	1/4	1,878.20	1/4	1,519.21	1/4	1,161.06	1/4	815.56	1/4	456.58	1/4	97.59	1/4			
1/2	2,588.72	1/2	2,229.72	1/2	1,870.72	1/2	1,511.73	1/2	1,153.86	1/2	808.09	1/2	449.10	1/2	90.11	1/2			
3/4	2,581.24	3/4	2,222.24	3/4	1,863.24	3/4	1,504.25	3/4	1,146.66	3/4	800.61	3/4	441.62	3/4	82.63	3/4			
1	2,573.76	1	2,214.76	1	1,855.76	1	1,496.77	1	1,139.47	1	793.13	1	434.14	1	75.15	1			
1/4	2,566.28	1/4	2,207.28	1/4	1,848.29	1/4	1,489.29	1/4	1,132.28	1/4	785.65	1/4	426.66	1/4	68.14	1/4			
1/2	2,558.80	1/2	2,199.80	1/2	1,840.81	1/2	1,481.81	1/2	1,125.09	1/2	778.17	1/2	419.18	1/2	61.13	1/2			
3/4	2,551.32	3/4	2,192.32	3/4	1,833.33	3/4	1,474.33	3/4	1,117.90	3/4	770.69	3/4	411.70	3/4	54.12	3/4			
2	2,543.84	2	2,184.85	2	1,825.85	2	1,466.85	2	1,110.71	2	763.21	2	404.22	2	47.11	2			
1/4	2,536.36	1/4	2,177.37	1/4	1,818.37	1/4	1,459.37	1/4	1,103.52	1/4	755.73	1/4	396.75	1/4	41.50	1/4			
1/2	2,528.88	1/2	2,169.89	1/2	1,810.89	1/2	1,451.89	1/2	1,096.34	1/2	748.25	1/2	389.27	1/2	35.89	1/2			
3/4	2,521.40	3/4	2,162.41	3/4	1,803.41	3/4	1,444.41	3/4	1,089.16	3/4	740.78	3/4	381.79	3/4	30.28	3/4			
3	2,513.93	3	2,154.93	3	1,795.93	3	1,436.94	3	1,081.98	3	733.30	3	374.31	3	24.67	3			
1/4	2,506.45	1/4	2,147.45	1/4	1,788.45	1/4	1,429.46	1/4	1,074.80	1/4	725.82	1/4	366.83	1/4	20.93	1/4			
1/2	2,498.97	1/2	2,139.97	1/2	1,780.97	1/2	1,421.98	1/2	1,067.62	1/2	718.34	1/2	359.35	1/2		1/2			
3/4	2,491.49	3/4	2,132.49	3/4	1,773.49	3/4	1,414.50	3/4	1,060.44	3/4	710.86	3/4	351.87	3/4		3/4			
4	2,484.01	4	2,125.01	4	1,766.02	4	1,407.02	4	1,053.26	4	703.38	4	344.39	4		4			
1/4	2,476.53	1/4	2,117.53	1/4	1,758.54	1/4	1,399.54	1/4	1,046.09	1/4	695.90	1/4	336.91	1/4		1/4			
1/2	2,469.05	1/2	2,110.05	1/2	1,751.06	1/2	1,392.06	1/2	1,038.91	1/2	688.42	1/2	329.44	1/2		1/2			
3/4	2,461.57	3/4	2,102.58	3/4	1,743.58	3/4	1,384.58	3/4	1,031.73	3/4	680.94	3/4	321.96	3/4		3/4			
5	2,454.09	5	2,095.10	5	1,736.10	5	1,377.10	5	1,024.56	5	673.47	5	314.48	5		5			
1/4	2,446.61	1/4	2,087.62	1/4	1,728.62	1/4	1,369.62	1/4	1,017.38	1/4	665.99	1/4	307.00	1/4		1/4			
1/2	2,439.13	1/2	2,080.14	1/2	1,721.14	1/2	1,362.14	1/2	1,010.21	1/2	658.51	1/2	299.52	1/2		1/2			
3/4	2,431.66	3/4	2,072.66	3/4	1,713.66	3/4	1,354.67	3/4	1,003.03	3/4	651.03	3/4	292.04	3/4		3/4			
6	2,424.18	6	2,065.18	6	1,706.18	6	1,347.19	6	995.86	6	643.55	6	284.56	6		6			
1/4	2,416.70	1/4	2,057.70	1/4	1,698.70	1/4	1,339.71	1/4	988.68	1/4	636.07	1/4	277.08	1/4		1/4			
1/2	2,409.22	1/2	2,050.22	1/2	1,691.22	1/2	1,332.23	1/2	981.51	1/2	628.59	1/2	269.60	1/2		1/2			
3/4	2,401.74	3/4	2,042.74	3/4	1,683.75	3/4	1,324.75	3/4	974.33	3/4	621.11	3/4	262.13	3/4		3/4			
7	2,394.26	7	2,035.26	7	1,676.27	7	1,317.27	7	967.15	7	613.63	7	254.65	7		7			
1/4	2,386.78	1/4	2,027.78	1/4	1,668.79	1/4	1,309.79	1/4	959.98	1/4	606.16	1/4	247.17	1/4		1/4			
1/2	2,379.30	1/2	2,020.30	1/2	1,661.31	1/2	1,302.31	1/2	952.80	1/2	598.68	1/2	239.69	1/2		1/2			
3/4	2,371.82	3/4	2,012.83	3/4	1,653.83	3/4	1,294.83	3/4	945.63	3/4	591.20	3/4	232.21	3/4		3/4			
8	2,364.34	8	2,005.35	8	1,646.35	8	1,287.35	8	938.45	8	583.72	8	224.73	8		8			
1/4	2,356.86	1/4	1,997.87	1/4	1,638.87	1/4	1,279.87	1/4	931.28	1/4	576.24	1/4	217.25	1/4		1/4			
1/2	2,349.39	1/2	1,990.39	1/2	1,631.39	1/2	1,272.39	1/2	924.10	1/2	568.76	1/2	209.77	1/2		1/2			
3/4	2,341.91	3/4	1,982.91	3/4	1,623.91	3/4	1,264.92	3/4	916.93	3/4	561.28	3/4	202.29	3/4		3/4			
9	2,334.43	9	1,975.43	9	1,616.43	9	1,257.44	9	909.75	9	553.80	9	194.82	9		9			
1/4	2,326.95	1/4	1,967.95	1/4	1,608.95	1/4	1,249.96	1/4	902.58	1/4	546.32	1/4	187.34	1/4		1/4			
1/2	2,319.47	1/2	1,960.47	1/2	1,601.48	1/2	1,242.48	1/2	895.40	1/2	538.84	1/2	179.86	1/2		1/2			
3/4	2,311.99	3/4	1,952.99	3/4	1,594.00	3/4	1,235.00	3/4	888.22	3/4	531.37	3/4	172.38	3/4		3/4			
10	2,304.51	10	1,945.51	10	1,586.52	10	1,227.52	10	881.05	10	523.89	10	164.90	10		10			
1/4	2,297.03	1/4	1,938.03	1/4	1,579.04	1/4	1,220.04	1/4	873.87	1/4	516.41	1/4	157.42	1/4		1/4			
1/2	2,289.55	1/2	1,930.56	1/2	1,571.56	1/2	1,212.56	1/2	866.70	1/2	508.93	1/2	149.94	1/2		1/2			
3/4	2,282.07	3/4	1,923.08	3/4	1,564.08	3/4	1,205.08	3/4	859.52	3/4	501.45	3/4	142.46	3/4		3/4			
11	2,274.59	11	1,915.60	11	1,556.60	11	1,197.60	11	852.35	11	493.97	11	134.98	11		11			
1/4	2,267.12	1/4	1,908.12	1/4	1,549.12	1/4	1,190.27	1/4	845.02	1/4	486.49	1/4	127.51	1/4		1/4			
1/2	2,259.64	1/2	1,900.64	1/2	1,541.64	1/2	1,182.93	1/2	837.69	1/2	479.01	1/2	120.03	1/2		1/2			
3/4	2,252.16	3/4	1,893.16	3/4	1,534.16	3/4	1,175.59	3/4	830.37	3/4	471.53	3/4	112.55	3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/02/2014 CL
RECALCULATED: 08/08/2019 CL
REPRINTED: 08/08/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2019

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



BARGE "HTCO 3132"

2 STBD

ULLAGE TABLE

HERMETIC

GAUGE HEIGHT 17'-03 1/2"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0		0	4,776.66	0	4,419.18	0	4,060.45	0	3,701.65	0	3,342.84	0	2,984.03
1/4		1/4		1/4		1/4		1/4	4,769.25	1/4	4,411.73	1/4	4,052.98	1/4	3,694.17	1/4	3,335.37	1/4	2,976.56
1/2		1/2		1/2		1/2		1/2	4,761.84	1/2	4,404.27	1/2	4,045.50	1/2	3,686.70	1/2	3,327.89	1/2	2,969.08
3/4		3/4		3/4		3/4		3/4	4,754.42	3/4	4,396.80	3/4	4,038.02	3/4	3,679.22	3/4	3,320.42	3/4	2,961.60
1		1		1		1		1	5,091.22	1	4,747.01	1	4,389.34	1	4,030.55	1	3,671.74	1	3,312.94
1/4		1/4		1/4		1/4		1/4	5,086.47	1/4	4,739.59	1/4	4,381.88	1/4	4,023.07	1/4	3,664.27	1/4	3,305.47
1/2		1/2		1/2		1/2		1/2	5,080.66	1/2	4,732.16	1/2	4,374.40	1/2	4,015.60	1/2	3,656.79	1/2	3,297.99
3/4		3/4		3/4		3/4		3/4	5,074.84	3/4	4,724.73	3/4	4,366.93	3/4	4,008.12	3/4	3,649.32	3/4	3,290.51
2		2		2		2		2	5,069.03	2	4,717.30	2	4,359.45	2	4,000.65	2	3,641.84	2	3,283.04
1/4		1/4		1/4		1/4		1/4	5,063.21	1/4	4,709.86	1/4	4,351.98	1/4	3,993.17	1/4	3,634.37	1/4	3,275.56
1/2		1/2		1/2		1/2		1/2	5,056.40	1/2	4,702.41	1/2	4,344.50	1/2	3,985.70	1/2	3,626.89	1/2	3,268.09
3/4		3/4		3/4		3/4		3/4	5,049.58	3/4	4,694.96	3/4	4,337.03	3/4	3,978.22	3/4	3,619.42	3/4	3,260.61
3		3		3		3		3	5,042.76	3	4,687.50	3	4,329.55	3	3,970.75	3	3,611.94	3	3,253.14
1/4		1/4		1/4		1/4		1/4	5,035.95	1/4	4,680.05	1/4	4,322.08	1/4	3,963.27	1/4	3,604.47	1/4	3,245.66
1/2		1/2		1/2		1/2		1/2	5,028.59	1/2	4,672.60	1/2	4,314.60	1/2	3,955.80	1/2	3,596.99	1/2	3,238.19
3/4		3/4		3/4		3/4		3/4	5,021.24	3/4	4,665.14	3/4	4,307.13	3/4	3,948.32	3/4	3,589.52	3/4	3,230.71
4		4		4		4		4	5,013.89	4	4,657.69	4	4,299.65	4	3,940.85	4	3,582.04	4	3,223.24
1/4		1/4		1/4		1/4		1/4	5,006.54	1/4	4,650.24	1/4	4,292.18	1/4	3,933.37	1/4	3,574.57	1/4	3,215.76
1/2		1/2		1/2		1/2		1/2	4,999.12	1/2	4,642.78	1/2	4,284.70	1/2	3,925.90	1/2	3,567.09	1/2	3,208.29
3/4		3/4		3/4		3/4		3/4	4,991.71	3/4	4,635.33	3/4	4,277.23	3/4	3,918.42	3/4	3,559.62	3/4	3,200.81
5		5		5		5		5	4,984.29	5	4,627.88	5	4,269.75	5	3,910.95	5	3,552.14	5	3,193.34
1/4		1/4		1/4		1/4		1/4	4,976.87	1/4	4,620.42	1/4	4,262.28	1/4	3,903.47	1/4	3,544.67	1/4	3,185.86
1/2		1/2		1/2		1/2		1/2	4,969.45	1/2	4,612.97	1/2	4,254.80	1/2	3,896.00	1/2	3,537.19	1/2	3,178.39
3/4		3/4		3/4		3/4		3/4	4,962.03	3/4	4,605.52	3/4	4,247.33	3/4	3,888.52	3/4	3,529.72	3/4	3,170.91
6		6		6		6		6	4,954.62	6	4,598.06	6	4,239.85	6	3,881.05	6	3,522.24	6	3,163.44
1/4		1/4		1/4		1/4		1/4	4,947.20	1/4	4,590.61	1/4	4,232.38	1/4	3,873.57	1/4	3,514.77	1/4	3,155.96
1/2		1/2		1/2		1/2		1/2	4,939.78	1/2	4,583.16	1/2	4,224.90	1/2	3,866.10	1/2	3,507.29	1/2	3,148.49
3/4		3/4		3/4		3/4		3/4	4,932.36	3/4	4,575.70	3/4	4,217.43	3/4	3,858.62	3/4	3,499.82	3/4	3,141.01
7		7		7		7		7	4,924.95	7	4,568.25	7	4,209.95	7	3,851.15	7	3,492.34	7	3,133.54
1/4		1/4		1/4		1/4		1/4	4,917.53	1/4	4,560.80	1/4	4,202.48	1/4	3,843.67	1/4	3,484.87	1/4	3,126.06
1/2		1/2		1/2		1/2		1/2	4,910.11	1/2	4,553.34	1/2	4,195.00	1/2	3,836.20	1/2	3,477.39	1/2	3,118.59
3/4		3/4		3/4		3/4		3/4	4,902.70	3/4	4,545.89	3/4	4,187.53	3/4	3,828.72	3/4	3,469.92	3/4	3,111.11
8		8		8		8		8	4,895.28	8	4,538.43	8	4,180.05	8	3,821.25	8	3,462.44	8	3,103.64
1/4		1/4		1/4		1/4		1/4	4,887.87	1/4	4,530.98	1/4	4,172.58	1/4	3,813.77	1/4	3,454.97	1/4	3,096.16
1/2		1/2		1/2		1/2		1/2	4,880.45	1/2	4,523.53	1/2	4,165.10	1/2	3,806.30	1/2	3,447.49	1/2	3,088.69
3/4		3/4		3/4		3/4		3/4	4,873.04	3/4	4,516.07	3/4	4,157.63	3/4	3,798.82	3/4	3,440.02	3/4	3,081.21
9		9		9		9		9	4,865.63	9	4,508.62	9	4,150.15	9	3,791.35	9	3,432.54	9	3,073.74
1/4		1/4		1/4		1/4		1/4	4,858.21	1/4	4,501.17	1/4	4,142.68	1/4	3,783.87	1/4	3,425.07	1/4	3,066.26
1/2		1/2		1/2		1/2		1/2	4,850.80	1/2	4,493.71	1/2	4,135.20	1/2	3,776.40	1/2	3,417.59	1/2	3,058.79
3/4		3/4		3/4		3/4		3/4	4,843.39	3/4	4,486.26	3/4	4,127.73	3/4	3,768.92	3/4	3,410.12	3/4	3,051.31
10		10		10		10		10	4,835.97	10	4,478.81	10	4,120.25	10	3,761.45	10	3,402.64	10	3,043.84
1/4		1/4		1/4		1/4		1/4	4,828.56	1/4	4,471.35	1/4	4,112.78	1/4	3,753.97	1/4	3,395.17	1/4	3,036.36
1/2		1/2		1/2		1/2		1/2	4,821.14	1/2	4,463.90	1/2	4,105.30	1/2	3,746.50	1/2	3,387.69	1/2	3,028.89
3/4		3/4		3/4		3/4		3/4	4,813.73	3/4	4,456.45	3/4	4,097.83	3/4	3,739.02	3/4	3,380.22	3/4	3,021.41
11		11		11		11		11	4,806.32	11	4,448.99	11	4,090.35	11	3,731.55	11	3,372.74	11	3,013.94
1/4		1/4		1/4		1/4		1/4	4,798.90	1/4	4,441.54	1/4	4,082.88	1/4	3,724.07	1/4	3,365.27	1/4	3,006.46
1/2		1/2		1/2		1/2		1/2	4,791.49	1/2	4,434.09	1/2	4,075.40	1/2	3,716.60	1/2	3,357.79	1/2	2,998.99
3/4		3/4		3/4		3/4		3/4	4,784.08	3/4	4,426.63	3/4	4,067.93	3/4	3,709.12	3/4	3,350.32	3/4	2,991.51

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 WITH "HERMETIC" DEVICE
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 46'-00" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
 Pearland, Texas 77588
<http://www.pmacorp.net>





BARGE "HTCO 3132"

2 STBD

ULLAGE TABLE HERMETIC

GAUGE HEIGHT 17'-03 1/2"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,625.04	0	2,266.04	0	1,907.05	0	1,548.05	0	1,189.05	0	830.52	0	471.54	0	112.55	0		0	
1/4	2,617.56	1/4	2,258.57	1/4	1,899.57	1/4	1,540.57	1/4	1,181.57	1/4	823.04	1/4	464.06	1/4	105.07	1/4		1/4	
1/2	2,610.08	1/2	2,251.09	1/2	1,892.09	1/2	1,533.09	1/2	1,174.10	1/2	815.56	1/2	456.58	1/2	97.59	1/2		1/2	
3/4	2,602.60	3/4	2,243.61	3/4	1,884.61	3/4	1,525.61	3/4	1,166.62	3/4	808.09	3/4	449.10	3/4	90.11	3/4		3/4	
1	2,595.12	1	2,236.13	1	1,877.13	1	1,518.13	1	1,159.14	1	800.61	1	441.62	1	82.63	1		1	
1/4	2,587.65	1/4	2,228.65	1/4	1,869.65	1/4	1,510.66	1/4	1,151.66	1/4	793.13	1/4	434.14	1/4	75.15	1/4		1/4	
1/2	2,580.17	1/2	2,221.17	1/2	1,862.17	1/2	1,503.18	1/2	1,144.18	1/2	785.65	1/2	426.66	1/2	68.14	1/2		1/2	
3/4	2,572.69	3/4	2,213.69	3/4	1,854.69	3/4	1,495.70	3/4	1,136.71	3/4	778.17	3/4	419.18	3/4	61.13	3/4		3/4	
2	2,565.21	2	2,206.21	2	1,847.21	2	1,488.22	2	1,129.23	2	770.69	2	411.70	2	54.12	2		2	
1/4	2,557.73	1/4	2,198.73	1/4	1,839.74	1/4	1,480.74	1/4	1,121.75	1/4	763.21	1/4	404.23	1/4	47.11	1/4		1/4	
1/2	2,550.25	1/2	2,191.25	1/2	1,832.26	1/2	1,473.26	1/2	1,114.28	1/2	755.73	1/2	396.75	1/2	41.50	1/2		1/2	
3/4	2,542.77	3/4	2,183.77	3/4	1,824.78	3/4	1,465.78	3/4	1,106.81	3/4	748.25	3/4	389.27	3/4	35.89	3/4		3/4	
3	2,535.29	3	2,176.29	3	1,817.30	3	1,458.30	3	1,099.33	3	740.78	3	381.79	3	30.28	3		3	
1/4	2,527.81	1/4	2,168.82	1/4	1,809.82	1/4	1,450.82	1/4	1,091.86	1/4	733.30	1/4	374.31	1/4	24.67	1/4		1/4	
1/2	2,520.33	1/2	2,161.34	1/2	1,802.34	1/2	1,443.34	1/2	1,084.39	1/2	725.82	1/2	366.83	1/2	20.93	1/2		1/2	
3/4	2,512.85	3/4	2,153.86	3/4	1,794.86	3/4	1,435.86	3/4	1,076.92	3/4	718.34	3/4	359.35	3/4		3/4		3/4	
4	2,505.38	4	2,146.38	4	1,787.38	4	1,428.38	4	1,069.45	4	710.86	4	351.87	4		4		4	
1/4	2,497.90	1/4	2,138.90	1/4	1,779.90	1/4	1,420.91	1/4	1,061.98	1/4	703.38	1/4	344.39	1/4		1/4		1/4	
1/2	2,490.42	1/2	2,131.42	1/2	1,772.42	1/2	1,413.43	1/2	1,054.51	1/2	695.90	1/2	336.92	1/2		1/2		1/2	
3/4	2,482.94	3/4	2,123.94	3/4	1,764.94	3/4	1,405.95	3/4	1,047.05	3/4	688.42	3/4	329.44	3/4		3/4		3/4	
5	2,475.46	5	2,116.46	5	1,757.47	5	1,398.47	5	1,039.58	5	680.94	5	321.96	5		5		5	
1/4	2,467.98	1/4	2,108.98	1/4	1,749.99	1/4	1,390.99	1/4	1,032.12	1/4	673.47	1/4	314.48	1/4		1/4		1/4	
1/2	2,460.50	1/2	2,101.50	1/2	1,742.51	1/2	1,383.51	1/2	1,024.65	1/2	665.99	1/2	307.00	1/2		1/2		1/2	
3/4	2,453.02	3/4	2,094.02	3/4	1,735.03	3/4	1,376.03	3/4	1,017.18	3/4	658.51	3/4	299.52	3/4		3/4		3/4	
6	2,445.54	6	2,086.55	6	1,727.55	6	1,368.55	6	1,009.72	6	651.03	6	292.04	6		6		6	
1/4	2,438.06	1/4	2,079.07	1/4	1,720.07	1/4	1,361.07	1/4	1,002.25	1/4	643.55	1/4	284.56	1/4		1/4		1/4	
1/2	2,430.58	1/2	2,071.59	1/2	1,712.59	1/2	1,353.59	1/2	994.78	1/2	636.07	1/2	277.08	1/2		1/2		1/2	
3/4	2,423.11	3/4	2,064.11	3/4	1,705.11	3/4	1,346.11	3/4	987.32	3/4	628.59	3/4	269.61	3/4		3/4		3/4	
7	2,415.63	7	2,056.63	7	1,697.63	7	1,338.64	7	979.85	7	621.11	7	262.13	7		7		7	
1/4	2,408.15	1/4	2,049.15	1/4	1,690.15	1/4	1,331.16	1/4	972.39	1/4	613.63	1/4	254.65	1/4		1/4		1/4	
1/2	2,400.67	1/2	2,041.67	1/2	1,682.67	1/2	1,323.68	1/2	964.92	1/2	606.16	1/2	247.17	1/2		1/2		1/2	
3/4	2,393.19	3/4	2,034.19	3/4	1,675.20	3/4	1,316.20	3/4	957.45	3/4	598.68	3/4	239.69	3/4		3/4		3/4	
8	2,385.71	8	2,026.71	8	1,667.72	8	1,308.72	8	949.99	8	591.20	8	232.21	8		8		8	
1/4	2,378.23	1/4	2,019.23	1/4	1,660.24	1/4	1,301.24	1/4	942.52	1/4	583.72	1/4	224.73	1/4		1/4		1/4	
1/2	2,370.75	1/2	2,011.75	1/2	1,652.76	1/2	1,293.76	1/2	935.06	1/2	576.24	1/2	217.25	1/2		1/2		1/2	
3/4	2,363.27	3/4	2,004.28	3/4	1,645.28	3/4	1,286.28	3/4	927.59	3/4	568.76	3/4	209.77	3/4		3/4		3/4	
9	2,355.79	9	1,996.80	9	1,637.80	9	1,278.80	9	920.12	9	561.28	9	202.30	9		9		9	
1/4	2,348.31	1/4	1,989.32	1/4	1,630.32	1/4	1,271.32	1/4	912.66	1/4	553.80	1/4	194.82	1/4		1/4		1/4	
1/2	2,340.84	1/2	1,981.84	1/2	1,622.84	1/2	1,263.84	1/2	905.19	1/2	546.32	1/2	187.34	1/2		1/2		1/2	
3/4	2,333.36	3/4	1,974.36	3/4	1,615.36	3/4	1,256.37	3/4	897.73	3/4	538.85	3/4	179.86	3/4		3/4		3/4	
10	2,325.88	10	1,966.88	10	1,607.88	10	1,248.89	10	890.26	10	531.37	10	172.38	10		10		10	
1/4	2,318.40	1/4	1,959.40	1/4	1,600.40	1/4	1,241.41	1/4	882.79	1/4	523.89	1/4	164.90	1/4		1/4		1/4	
1/2	2,310.92	1/2	1,951.92	1/2	1,592.93	1/2	1,233.93	1/2	875.33	1/2	516.41	1/2	157.42	1/2		1/2		1/2	
3/4	2,303.44	3/4	1,944.44	3/4	1,585.45	3/4	1,226.45	3/4	867.86	3/4	508.93	3/4	149.94	3/4		3/4		3/4	
11	2,295.96	11	1,936.96	11	1,577.97	11	1,218.97	11	860.39	11	501.45	11	142.46	11		11		11	
1/4	2,288.48	1/4	1,929.48	1/4	1,570.49	1/4	1,211.49	1/4	852.93	1/4	493.97	1/4	134.99	1/4		1/4		1/4	
1/2	2,281.00	1/2	1,922.01	1/2	1,563.01	1/2	1,204.01	1/2	845.46	1/2	486.49	1/2	127.51	1/2		1/2		1/2	
3/4	2,273.52	3/4	1,914.53	3/4	1,555.53	3/4	1,196.53	3/4	837.99	3/4	479.01	3/4	120.03	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/02/2014 CL
RECALCULATED: 08/08/2019 CL
REPRINTED: 08/08/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2019

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



BARGE "HTCO 3132"

3 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	4,369.36	0	4,123.12	0	3,876.06	0	3,628.96	0	3,300.50	0	2,944.27		
1/4		1/4		1/4		1/4	4,364.25	1/4	4,117.98	1/4	3,870.91	1/4	3,623.81	1/4	3,293.10	1/4	2,936.85		
1/2		1/2		1/2		1/2	4,359.14	1/2	4,112.84	1/2	3,865.76	1/2	3,618.67	1/2	3,285.69	1/2	2,929.42		
3/4		3/4		3/4		3/4	4,587.49	3/4	4,354.04	3/4	4,107.70	3/4	3,860.61	3/4	3,613.52	3/4	3,278.29	3/4	2,921.99
1		1		1		1	4,585.04	1	4,348.93	1	4,102.56	1	3,855.47	1	3,608.37	1	3,270.89	1	2,914.57
1/4		1/4		1/4		1/4	4,581.53	1/4	4,343.81	1/4	4,097.41	1/4	3,850.32	1/4	3,603.22	1/4	3,263.47	1/4	2,907.14
1/2		1/2		1/2		1/2	4,578.02	1/2	4,338.69	1/2	4,092.26	1/2	3,845.17	1/2	3,598.08	1/2	3,256.06	1/2	2,899.71
3/4		3/4		3/4		3/4	4,574.50	3/4	4,333.57	3/4	4,087.12	3/4	3,840.02	3/4	3,592.93	3/4	3,248.65	3/4	2,892.29
2		2		2		2	4,570.99	2	4,328.45	2	4,081.97	2	3,834.87	2	3,587.78	2	3,241.23	2	2,884.86
1/4		1/4		1/4		1/4	4,566.48	1/4	4,323.32	1/4	4,076.82	1/4	3,829.73	1/4	3,582.06	1/4	3,233.81	1/4	2,877.43
1/2		1/2		1/2		1/2	4,561.97	1/2	4,318.19	1/2	4,071.67	1/2	3,824.58	1/2	3,576.34	1/2	3,226.38	1/2	2,870.01
3/4		3/4		3/4		3/4	4,557.46	3/4	4,313.05	3/4	4,066.53	3/4	3,819.43	3/4	3,570.61	3/4	3,218.96	3/4	2,862.58
3		3		3		3	4,552.95	3	4,307.92	3	4,061.38	3	3,814.28	3	3,564.89	3	3,211.54	3	2,855.15
1/4		1/4		1/4		1/4	4,547.91	1/4	4,302.79	1/4	4,056.23	1/4	3,809.14	1/4	3,558.04	1/4	3,204.11	1/4	2,847.73
1/2		1/2		1/2		1/2	4,542.87	1/2	4,297.65	1/2	4,051.08	1/2	3,803.99	1/2	3,551.18	1/2	3,196.69	1/2	2,840.30
3/4		3/4		3/4		3/4	4,537.83	3/4	4,292.52	3/4	4,045.93	3/4	3,798.84	3/4	3,544.33	3/4	3,189.26	3/4	2,832.87
4		4		4		4	4,532.78	4	4,287.39	4	4,040.79	4	3,793.69	4	3,537.47	4	3,181.84	4	2,825.45
1/4		1/4		1/4		1/4	4,527.67	1/4	4,282.25	1/4	4,035.64	1/4	3,788.54	1/4	3,530.06	1/4	3,174.42	1/4	2,818.02
1/2		1/2		1/2		1/2	4,522.57	1/2	4,277.12	1/2	4,030.49	1/2	3,783.40	1/2	3,522.64	1/2	3,166.99	1/2	2,810.59
3/4		3/4		3/4		3/4	4,517.46	3/4	4,271.99	3/4	4,025.34	3/4	3,778.25	3/4	3,515.23	3/4	3,159.57	3/4	2,803.17
5		5		5		5	4,512.35	5	4,266.85	5	4,020.20	5	3,773.10	5	3,507.81	5	3,152.15	5	2,795.74
1/4		1/4		1/4		1/4	4,507.24	1/4	4,261.72	1/4	4,015.05	1/4	3,767.95	1/4	3,500.40	1/4	3,144.72	1/4	2,788.31
1/2		1/2		1/2		1/2	4,502.13	1/2	4,256.59	1/2	4,009.90	1/2	3,762.81	1/2	3,492.99	1/2	3,137.30	1/2	2,780.89
3/4		3/4		3/4		3/4	4,497.02	3/4	4,251.45	3/4	4,004.75	3/4	3,757.66	3/4	3,485.58	3/4	3,129.87	3/4	2,773.46
6		6		6		6	4,491.91	6	4,246.32	6	3,999.60	6	3,752.51	6	3,478.18	6	3,122.45	6	2,766.03
1/4		1/4		1/4		1/4	4,486.81	1/4	4,241.19	1/4	3,994.46	1/4	3,747.36	1/4	3,470.77	1/4	3,115.03	1/4	2,758.61
1/2		1/2		1/2		1/2	4,481.70	1/2	4,236.05	1/2	3,989.31	1/2	3,742.21	1/2	3,463.37	1/2	3,107.60	1/2	2,751.18
3/4		3/4		3/4		3/4	4,476.59	3/4	4,230.92	3/4	3,984.16	3/4	3,737.07	3/4	3,455.97	3/4	3,100.18	3/4	2,743.75
7		7		7		7	4,471.48	7	4,225.79	7	3,979.01	7	3,731.92	7	3,448.56	7	3,092.75	7	2,736.33
1/4		1/4		1/4		1/4	4,466.37	1/4	4,220.65	1/4	3,973.87	1/4	3,726.77	1/4	3,441.16	1/4	3,085.33	1/4	2,728.90
1/2		1/2		1/2		1/2	4,461.27	1/2	4,215.52	1/2	3,968.72	1/2	3,721.62	1/2	3,433.76	1/2	3,077.91	1/2	2,721.47
3/4		3/4		3/4		3/4	4,456.16	3/4	4,210.39	3/4	3,963.57	3/4	3,716.48	3/4	3,426.35	3/4	3,070.48	3/4	2,714.05
8		8		8		8	4,451.05	8	4,205.25	8	3,958.42	8	3,711.33	8	3,418.95	8	3,063.06	8	2,706.62
1/4		1/4		1/4		1/4	4,445.95	1/4	4,200.12	1/4	3,953.27	1/4	3,706.18	1/4	3,411.55	1/4	3,055.63	1/4	2,699.19
1/2		1/2		1/2		1/2	4,440.84	1/2	4,194.99	1/2	3,948.13	1/2	3,701.03	1/2	3,404.14	1/2	3,048.21	1/2	2,691.77
3/4		3/4		3/4		3/4	4,435.73	3/4	4,189.85	3/4	3,942.98	3/4	3,695.88	3/4	3,396.74	3/4	3,040.79	3/4	2,684.34
9		9		9		9	4,430.63	9	4,184.72	9	3,937.83	9	3,690.74	9	3,389.34	9	3,033.36	9	2,676.91
1/4		1/4		1/4		1/4	4,425.52	1/4	4,179.59	1/4	3,932.68	1/4	3,685.59	1/4	3,381.93	1/4	3,025.94	1/4	2,669.49
1/2		1/2		1/2		1/2	4,420.42	1/2	4,174.45	1/2	3,927.54	1/2	3,680.44	1/2	3,374.53	1/2	3,018.52	1/2	2,662.06
3/4		3/4		3/4		3/4	4,415.31	3/4	4,169.32	3/4	3,922.39	3/4	3,675.29	3/4	3,367.13	3/4	3,011.09	3/4	2,654.63
10		10		10		10	4,410.20	10	4,164.19	10	3,917.24	10	3,670.15	10	3,359.72	10	3,003.67	10	2,647.21
1/4		1/4		1/4		1/4	4,405.10	1/4	4,159.05	1/4	3,912.09	1/4	3,665.00	1/4	3,352.32	1/4	2,996.24	1/4	2,639.78
1/2		1/2		1/2		1/2	4,399.99	1/2	4,153.92	1/2	3,906.94	1/2	3,659.85	1/2	3,344.92	1/2	2,988.82	1/2	2,632.35
3/4		3/4		3/4		3/4	4,394.89	3/4	4,148.79	3/4	3,901.80	3/4	3,654.70	3/4	3,337.52	3/4	2,981.40	3/4	2,624.93
11		11		11		11	4,389.78	11	4,143.65	11	3,896.65	11	3,649.55	11	3,330.11	11	2,973.97	11	2,617.50
1/4		1/4		1/4		1/4	4,384.67	1/4	4,138.52	1/4	3,891.50	1/4	3,644.41	1/4	3,322.71	1/4	2,966.55	1/4	2,610.07
1/2		1/2		1/2		1/2	4,379.57	1/2	4,133.39	1/2	3,886.35	1/2	3,639.26	1/2	3,315.31	1/2	2,959.12	1/2	2,602.64
3/4		3/4		3/4		3/4	4,374.46	3/4	4,128.25	3/4	3,881.20	3/4	3,634.11	3/4	3,307.90	3/4	2,951.70	3/4	2,595.21

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 WITH "HERMETIC" DEVICE
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 45'-06" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
 Pearland, Texas 77588
<http://www.pmacorp.net>



BARGE "HTCO 3132"

3 PORT ULLAGE TABLE HERMETIC

GAUGE HEIGHT 17'-03 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,587.78	0	2,232.31	0	1,878.37	0	1,521.55	0	1,165.14	0	818.69	0	461.67	0	104.65	0			
1/4	2,580.35	1/4	2,224.94	1/4	1,870.94	1/4	1,514.11	1/4	1,157.91	1/4	811.25	1/4	454.23	1/4	97.21	1/4			
1/2	2,572.91	1/2	2,217.57	1/2	1,863.50	1/2	1,506.68	1/2	1,150.69	1/2	803.82	1/2	446.79	1/2	89.76	1/2			
3/4	2,565.48	3/4	2,210.20	3/4	1,856.07	3/4	1,499.24	3/4	1,143.47	3/4	796.38	3/4	439.36	3/4	82.31	3/4			
1	2,558.05	1	2,202.83	1	1,848.64	1	1,491.81	1	1,136.24	1	788.94	1	431.92	1	74.86	1			
1/4	2,550.61	1/4	2,195.45	1/4	1,841.20	1/4	1,484.38	1/4	1,129.03	1/4	781.50	1/4	424.48	1/4	67.88	1/4			
1/2	2,543.18	1/2	2,188.08	1/2	1,833.77	1/2	1,476.94	1/2	1,121.81	1/2	774.06	1/2	417.05	1/2	60.90	1/2			
3/4	2,535.74	3/4	2,180.71	3/4	1,826.33	3/4	1,469.51	3/4	1,114.59	3/4	766.63	3/4	409.61	3/4	53.91	3/4			
2	2,528.31	2	2,173.34	2	1,818.90	2	1,462.07	2	1,107.37	2	759.19	2	402.17	2	46.93	2			
1/4	2,520.88	1/4	2,165.97	1/4	1,811.47	1/4	1,454.64	1/4	1,100.16	1/4	751.75	1/4	394.74	1/4	41.34	1/4			
1/2	2,513.44	1/2	2,158.60	1/2	1,804.03	1/2	1,447.21	1/2	1,092.95	1/2	744.31	1/2	387.30	1/2	35.75	1/2			
3/4	2,506.01	3/4	2,151.23	3/4	1,796.60	3/4	1,439.77	3/4	1,085.74	3/4	736.87	3/4	379.86	3/4	30.16	3/4			
3	2,498.57	3	2,143.86	3	1,789.17	3	1,432.34	3	1,078.53	3	729.44	3	372.43	3	24.58	3			
1/4	2,491.16	1/4	2,136.49	1/4	1,781.73	1/4	1,424.90	1/4	1,071.32	1/4	722.00	1/4	364.99	1/4	20.85	1/4			
1/2	2,483.74	1/2	2,129.12	1/2	1,774.30	1/2	1,417.47	1/2	1,064.11	1/2	714.56	1/2	357.55	1/2		1/2			
3/4	2,476.33	3/4	2,121.74	3/4	1,766.86	3/4	1,410.04	3/4	1,056.90	3/4	707.12	3/4	350.12	3/4		3/4			
4	2,468.92	4	2,114.37	4	1,759.43	4	1,402.60	4	1,049.70	4	699.68	4	342.68	4		4			
1/4	2,461.52	1/4	2,107.00	1/4	1,752.00	1/4	1,395.17	1/4	1,042.49	1/4	692.24	1/4	335.24	1/4		1/4			
1/2	2,454.12	1/2	2,099.63	1/2	1,744.56	1/2	1,387.73	1/2	1,035.29	1/2	684.81	1/2	327.80	1/2		1/2			
3/4	2,446.73	3/4	2,092.26	3/4	1,737.13	3/4	1,380.30	3/4	1,028.08	3/4	677.37	3/4	320.37	3/4		3/4			
5	2,439.33	5	2,084.89	5	1,729.69	5	1,372.87	5	1,020.88	5	669.93	5	312.93	5		5			
1/4	2,431.94	1/4	2,077.52	1/4	1,722.26	1/4	1,365.43	1/4	1,013.67	1/4	662.49	1/4	305.49	1/4		1/4			
1/2	2,424.54	1/2	2,070.15	1/2	1,714.83	1/2	1,358.00	1/2	1,006.47	1/2	655.05	1/2	298.06	1/2		1/2			
3/4	2,417.15	3/4	2,062.78	3/4	1,707.39	3/4	1,350.57	3/4	999.27	3/4	647.62	3/4	290.62	3/4		3/4			
6	2,409.75	6	2,055.41	6	1,699.96	6	1,343.13	6	992.06	6	640.18	6	283.18	6		6			
1/4	2,402.36	1/4	2,048.03	1/4	1,692.52	1/4	1,335.70	1/4	984.86	1/4	632.74	1/4	275.75	1/4		1/4			
1/2	2,394.96	1/2	2,040.66	1/2	1,685.09	1/2	1,328.26	1/2	977.65	1/2	625.30	1/2	268.31	1/2		1/2			
3/4	2,387.57	3/4	2,033.29	3/4	1,677.66	3/4	1,320.83	3/4	970.45	3/4	617.86	3/4	260.87	3/4		3/4			
7	2,380.17	7	2,025.92	7	1,670.22	7	1,313.40	7	963.24	7	610.43	7	253.44	7		7			
1/4	2,372.77	1/4	2,018.55	1/4	1,662.79	1/4	1,305.96	1/4	956.04	1/4	602.99	1/4	246.00	1/4		1/4			
1/2	2,365.38	1/2	2,011.18	1/2	1,655.36	1/2	1,298.53	1/2	948.84	1/2	595.55	1/2	238.56	1/2		1/2			
3/4	2,357.98	3/4	2,003.81	3/4	1,647.92	3/4	1,291.09	3/4	941.63	3/4	588.11	3/4	231.12	3/4		3/4			
8	2,350.59	8	1,996.44	8	1,640.49	8	1,283.66	8	934.43	8	580.67	8	223.69	8		8			
1/4	2,343.19	1/4	1,989.07	1/4	1,633.05	1/4	1,276.23	1/4	927.22	1/4	573.24	1/4	216.25	1/4		1/4			
1/2	2,335.80	1/2	1,981.70	1/2	1,625.62	1/2	1,268.79	1/2	920.02	1/2	565.80	1/2	208.81	1/2		1/2			
3/4	2,328.40	3/4	1,974.32	3/4	1,618.19	3/4	1,261.36	3/4	912.82	3/4	558.36	3/4	201.37	3/4		3/4			
9	2,321.01	9	1,966.95	9	1,610.75	9	1,253.92	9	905.61	9	550.92	9	193.93	9		9			
1/4	2,313.61	1/4	1,959.58	1/4	1,603.32	1/4	1,246.49	1/4	898.41	1/4	543.48	1/4	186.50	1/4		1/4			
1/2	2,306.22	1/2	1,952.21	1/2	1,595.88	1/2	1,239.06	1/2	891.20	1/2	536.04	1/2	179.06	1/2		1/2			
3/4	2,298.82	3/4	1,944.84	3/4	1,588.45	3/4	1,231.62	3/4	884.00	3/4	528.61	3/4	171.62	3/4		3/4			
10	2,291.43	10	1,937.47	10	1,581.02	10	1,224.19	10	876.79	10	521.17	10	164.18	10		10			
1/4	2,284.03	1/4	1,930.10	1/4	1,573.58	1/4	1,216.76	1/4	869.59	1/4	513.73	1/4	156.74	1/4		1/4			
1/2	2,276.63	1/2	1,922.73	1/2	1,566.15	1/2	1,209.32	1/2	862.39	1/2	506.29	1/2	149.30	1/2		1/2			
3/4	2,269.24	3/4	1,915.36	3/4	1,558.71	3/4	1,201.89	3/4	855.18	3/4	498.85	3/4	141.86	3/4		3/4			
11	2,261.84	11	1,907.99	11	1,551.28	11	1,194.45	11	847.98	11	491.42	11	134.42	11		11			
1/4	2,254.46	1/4	1,900.58	1/4	1,543.85	1/4	1,187.12	1/4	840.66	1/4	483.98	1/4	126.98	1/4		1/4			
1/2	2,247.08	1/2	1,893.18	1/2	1,536.41	1/2	1,179.80	1/2	833.34	1/2	476.54	1/2	119.54	1/2		1/2			
3/4	2,239.69	3/4	1,885.78	3/4	1,528.98	3/4	1,172.47	3/4	826.01	3/4	469.10	3/4	112.10	3/4		3/4			

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



BARGE "HTCO 3132"

3 STBD

ULLAGE TABLE
HERMETIC

GAUGE HEIGHT 17'-03 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,622.22	0	2,264.62	0	1,907.01	0	1,549.41	0	1,191.80	0	834.74	0	477.16	0	119.56	0		0	
1/4	2,614.77	1/4	2,257.17	1/4	1,899.56	1/4	1,541.96	1/4	1,184.35	1/4	827.30	1/4	469.71	1/4	112.11	1/4		1/4	
1/2	2,607.32	1/2	2,249.72	1/2	1,892.11	1/2	1,534.51	1/2	1,176.90	1/2	819.85	1/2	462.26	1/2	104.66	1/2		1/2	
3/4	2,599.87	3/4	2,242.27	3/4	1,884.66	3/4	1,527.06	3/4	1,169.45	3/4	812.40	3/4	454.81	3/4	97.21	3/4		3/4	
1	2,592.42	1	2,234.82	1	1,877.21	1	1,519.61	1	1,162.00	1	804.95	1	447.36	1	89.76	1		1	
1/4	2,584.97	1/4	2,227.37	1/4	1,869.76	1/4	1,512.16	1/4	1,154.55	1/4	797.50	1/4	439.91	1/4	82.31	1/4		1/4	
1/2	2,577.52	1/2	2,219.92	1/2	1,862.31	1/2	1,504.71	1/2	1,147.10	1/2	790.05	1/2	432.46	1/2	74.86	1/2		1/2	
3/4	2,570.07	3/4	2,212.47	3/4	1,854.86	3/4	1,497.26	3/4	1,139.66	3/4	782.60	3/4	425.01	3/4	67.88	3/4		3/4	
2	2,562.62	2	2,205.02	2	1,847.41	2	1,489.81	2	1,132.21	2	775.15	2	417.56	2	60.90	2		2	
1/4	2,555.17	1/4	2,197.57	1/4	1,839.96	1/4	1,482.36	1/4	1,124.76	1/4	767.70	1/4	410.11	1/4	53.91	1/4		1/4	
1/2	2,547.72	1/2	2,190.12	1/2	1,832.51	1/2	1,474.91	1/2	1,117.32	1/2	760.25	1/2	402.66	1/2	46.93	1/2		1/2	
3/4	2,540.27	3/4	2,182.67	3/4	1,825.06	3/4	1,467.46	3/4	1,109.88	3/4	752.80	3/4	395.21	3/4	41.34	3/4		3/4	
3	2,532.82	3	2,175.22	3	1,817.61	3	1,460.01	3	1,102.43	3	745.36	3	387.76	3	35.75	3		3	
1/4	2,525.37	1/4	2,167.77	1/4	1,810.16	1/4	1,452.56	1/4	1,094.99	1/4	737.91	1/4	380.31	1/4	30.16	1/4		1/4	
1/2	2,517.92	1/2	2,160.32	1/2	1,802.71	1/2	1,445.11	1/2	1,087.55	1/2	730.46	1/2	372.86	1/2	24.58	1/2		1/2	
3/4	2,510.47	3/4	2,152.87	3/4	1,795.26	3/4	1,437.66	3/4	1,080.11	3/4	723.01	3/4	365.41	3/4	20.85	3/4		3/4	
4	2,503.02	4	2,145.42	4	1,787.81	4	1,430.21	4	1,072.67	4	715.56	4	357.96	4		4		4	
1/4	2,495.57	1/4	2,137.97	1/4	1,780.36	1/4	1,422.76	1/4	1,065.24	1/4	708.11	1/4	350.51	1/4		1/4		1/4	
1/2	2,488.12	1/2	2,130.52	1/2	1,772.91	1/2	1,415.31	1/2	1,057.80	1/2	700.66	1/2	343.06	1/2		1/2		1/2	
3/4	2,480.67	3/4	2,123.07	3/4	1,765.46	3/4	1,407.86	3/4	1,050.36	3/4	693.21	3/4	335.61	3/4		3/4		3/4	
5	2,473.22	5	2,115.62	5	1,758.01	5	1,400.41	5	1,042.93	5	685.76	5	328.16	5		5		5	
1/4	2,465.77	1/4	2,108.17	1/4	1,750.56	1/4	1,392.96	1/4	1,035.49	1/4	678.31	1/4	320.71	1/4		1/4		1/4	
1/2	2,458.32	1/2	2,100.72	1/2	1,743.11	1/2	1,385.51	1/2	1,028.06	1/2	670.86	1/2	313.26	1/2		1/2		1/2	
3/4	2,450.87	3/4	2,093.27	3/4	1,735.66	3/4	1,378.06	3/4	1,020.62	3/4	663.41	3/4	305.81	3/4		3/4		3/4	
6	2,443.42	6	2,085.82	6	1,728.21	6	1,370.61	6	1,013.19	6	655.96	6	298.36	6		6		6	
1/4	2,435.97	1/4	2,078.37	1/4	1,720.76	1/4	1,363.16	1/4	1,005.75	1/4	648.51	1/4	290.91	1/4		1/4		1/4	
1/2	2,428.52	1/2	2,070.92	1/2	1,713.31	1/2	1,355.71	1/2	998.32	1/2	641.06	1/2	283.46	1/2		1/2		1/2	
3/4	2,421.07	3/4	2,063.47	3/4	1,705.86	3/4	1,348.26	3/4	990.88	3/4	633.61	3/4	276.01	3/4		3/4		3/4	
7	2,413.62	7	2,056.02	7	1,698.41	7	1,340.81	7	983.45	7	626.16	7	268.56	7		7		7	
1/4	2,406.17	1/4	2,048.57	1/4	1,690.96	1/4	1,333.36	1/4	976.01	1/4	618.71	1/4	261.11	1/4		1/4		1/4	
1/2	2,398.72	1/2	2,041.12	1/2	1,683.51	1/2	1,325.91	1/2	968.58	1/2	611.26	1/2	253.66	1/2		1/2		1/2	
3/4	2,391.27	3/4	2,033.67	3/4	1,676.06	3/4	1,318.46	3/4	961.14	3/4	603.81	3/4	246.21	3/4		3/4		3/4	
8	2,383.82	8	2,026.22	8	1,668.61	8	1,311.01	8	953.71	8	596.36	8	238.76	8		8		8	
1/4	2,376.37	1/4	2,018.76	1/4	1,661.16	1/4	1,303.56	1/4	946.27	1/4	588.91	1/4	231.31	1/4		1/4		1/4	
1/2	2,368.92	1/2	2,011.31	1/2	1,653.71	1/2	1,296.11	1/2	938.84	1/2	581.46	1/2	223.86	1/2		1/2		1/2	
3/4	2,361.47	3/4	2,003.86	3/4	1,646.26	3/4	1,288.66	3/4	931.40	3/4	574.01	3/4	216.41	3/4		3/4		3/4	
9	2,354.02	9	1,996.41	9	1,638.81	9	1,281.21	9	923.97	9	566.56	9	208.96	9		9		9	
1/4	2,346.57	1/4	1,988.96	1/4	1,631.36	1/4	1,273.75	1/4	916.53	1/4	559.11	1/4	201.51	1/4		1/4		1/4	
1/2	2,339.12	1/2	1,981.51	1/2	1,623.91	1/2	1,266.30	1/2	909.10	1/2	551.66	1/2	194.06	1/2		1/2		1/2	
3/4	2,331.67	3/4	1,974.06	3/4	1,616.46	3/4	1,258.85	3/4	901.66	3/4	544.21	3/4	186.61	3/4		3/4		3/4	
10	2,324.22	10	1,966.61	10	1,609.01	10	1,251.40	10	894.23	10	536.76	10	179.16	10		10		10	
1/4	2,316.77	1/4	1,959.16	1/4	1,601.56	1/4	1,243.95	1/4	886.79	1/4	529.31	1/4	171.71	1/4		1/4		1/4	
1/2	2,309.32	1/2	1,951.71	1/2	1,594.11	1/2	1,236.50	1/2	879.36	1/2	521.86	1/2	164.26	1/2		1/2		1/2	
3/4	2,301.87	3/4	1,944.26	3/4	1,586.66	3/4	1,229.05	3/4	871.93	3/4	514.41	3/4	156.81	3/4		3/4		3/4	
11	2,294.42	11	1,936.81	11	1,579.21	11	1,221.60	11	864.49	11	506.96	11	149.36	11		11		11	
1/4	2,286.97	1/4	1,929.36	1/4	1,571.76	1/4	1,214.15	1/4	857.06	1/4	499.51	1/4	141.91	1/4		1/4		1/4	
1/2	2,279.52	1/2	1,921.91	1/2	1,564.31	1/2	1,206.70	1/2	849.62	1/2	492.06	1/2	134.46	1/2		1/2		1/2	
3/4	2,272.07	3/4	1,914.46	3/4	1,556.86	3/4	1,199.25	3/4	842.18	3/4	484.61	3/4	127.01	3/4		3/4		3/4	

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