



BARGE "HTCO 3149"

ULLAGE TRIM TABLE (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	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-5/8	00-5/8
1 STBD	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-5/8	00-5/8
2 PORT	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-5/8	00-5/8
2 STBD	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-5/8	00-5/8
3 PORT	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-1/2	00-1/2
3 STBD	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-1/2	00-1/2

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 1 PORT IS 00-1/4"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 4'-00 1/4"

LENGTH BETWEEN DRAFT MARKS: 237'-09"

October 16, 2020

PRECISION MEASUREMENT
 & ANALYSIS, INC.

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HTCO 3149"

1 PORT ULLAGE TABLE

HERMETIC

GAUGE HEIGHT 17'-03 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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		0		0	4,700.14	0	4,343.57	0	3,985.72	0	3,627.79	0	3,269.86	0	2,911.92
1/4		1/4		1/4		1/4		1/4	4,692.75	1/4	4,336.14	1/4	3,978.27	1/4	3,620.34	1/4	3,262.41	1/4	2,904.46
1/2		1/2		1/2		1/2		1/2	4,685.35	1/2	4,328.70	1/2	3,970.81	1/2	3,612.88	1/2	3,254.95	1/2	2,897.00
3/4		3/4		3/4		3/4		3/4	4,677.96	3/4	4,321.26	3/4	3,963.35	3/4	3,605.42	3/4	3,247.49	3/4	2,889.54
1		1		1		1		1	4,670.56	1	4,313.81	1	3,955.90	1	3,597.97	1	3,240.03	1	2,882.08
1/4		1/4		1/4		1/4		1/4	5,006.54	1/4	4,663.17	1/4	4,306.36	1/4	3,948.44	1/4	3,232.58	1/4	2,874.62
1/2		1/2		1/2		1/2		1/2	5,001.81	1/2	4,655.77	1/2	4,298.91	1/2	3,940.98	1/2	3,225.12	1/2	2,867.15
3/4		3/4		3/4		3/4		3/4	4,996.00	3/4	4,648.36	3/4	4,291.46	3/4	3,933.53	3/4	3,217.66	3/4	2,859.69
2		2		2		2		2	4,990.20	2	4,640.94	2	4,284.00	2	3,926.07	2	3,210.21	2	2,852.23
1/4		1/4		1/4		1/4		1/4	4,984.40	1/4	4,633.53	1/4	4,276.54	1/4	3,918.61	1/4	3,202.75	1/4	2,844.77
1/2		1/2		1/2		1/2		1/2	4,978.60	1/2	4,626.11	1/2	4,269.09	1/2	3,911.16	1/2	3,195.29	1/2	2,837.31
3/4		3/4		3/4		3/4		3/4	4,971.80	3/4	4,618.68	3/4	4,261.63	3/4	3,903.70	3/4	3,187.84	3/4	2,829.85
3		3		3		3		3	4,965.00	3	4,611.24	3	4,254.17	3	3,896.24	3	3,180.38	3	2,822.39
1/4		1/4		1/4		1/4		1/4	4,958.20	1/4	4,603.81	1/4	4,246.72	1/4	3,888.79	1/4	3,172.92	1/4	2,814.93
1/2		1/2		1/2		1/2		1/2	4,951.40	1/2	4,596.37	1/2	4,239.26	1/2	3,881.33	1/2	3,165.47	1/2	2,807.47
3/4		3/4		3/4		3/4		3/4	4,944.06	3/4	4,588.94	3/4	4,231.80	3/4	3,873.87	3/4	3,158.01	3/4	2,800.01
4		4		4		4		4	4,936.73	4	4,581.50	4	4,224.35	4	3,866.41	4	3,150.55	4	2,792.55
1/4		1/4		1/4		1/4		1/4	4,929.40	1/4	4,574.07	1/4	4,216.89	1/4	3,858.96	1/4	3,143.10	1/4	2,785.08
1/2		1/2		1/2		1/2		1/2	4,922.06	1/2	4,566.63	1/2	4,209.43	1/2	3,851.50	1/2	3,135.64	1/2	2,777.62
3/4		3/4		3/4		3/4		3/4	4,914.66	3/4	4,559.19	3/4	4,201.98	3/4	3,844.04	3/4	3,128.18	3/4	2,770.16
5		5		5		5		5	4,907.26	5	4,551.76	5	4,194.52	5	3,836.59	5	3,120.72	5	2,762.70
1/4		1/4		1/4		1/4		1/4	4,899.87	1/4	4,544.32	1/4	4,187.06	1/4	3,829.13	1/4	3,113.27	1/4	2,755.24
1/2		1/2		1/2		1/2		1/2	4,892.47	1/2	4,536.89	1/2	4,179.60	1/2	3,821.67	1/2	3,105.81	1/2	2,747.78
3/4		3/4		3/4		3/4		3/4	4,885.07	3/4	4,529.45	3/4	4,172.15	3/4	3,814.22	3/4	3,098.35	3/4	2,740.32
6		6		6		6		6	4,877.67	6	4,522.02	6	4,164.69	6	3,806.76	6	3,090.90	6	2,732.86
1/4		1/4		1/4		1/4		1/4	4,870.27	1/4	4,514.58	1/4	4,157.23	1/4	3,799.30	1/4	3,083.44	1/4	2,725.40
1/2		1/2		1/2		1/2		1/2	4,862.87	1/2	4,507.15	1/2	4,149.78	1/2	3,791.85	1/2	3,075.98	1/2	2,717.94
3/4		3/4		3/4		3/4		3/4	4,855.47	3/4	4,499.71	3/4	4,142.32	3/4	3,784.39	3/4	3,068.53	3/4	2,710.48
7		7		7		7		7	4,848.07	7	4,492.28	7	4,134.86	7	3,776.93	7	3,061.07	7	2,703.01
1/4		1/4		1/4		1/4		1/4	4,840.67	1/4	4,484.84	1/4	4,127.41	1/4	3,769.47	1/4	3,053.61	1/4	2,695.55
1/2		1/2		1/2		1/2		1/2	4,833.27	1/2	4,477.41	1/2	4,119.95	1/2	3,762.02	1/2	3,046.16	1/2	2,688.09
3/4		3/4		3/4		3/4		3/4	4,825.87	3/4	4,469.97	3/4	4,112.49	3/4	3,754.56	3/4	3,038.70	3/4	2,680.63
8		8		8		8		8	4,818.48	8	4,462.54	8	4,105.04	8	3,747.10	8	3,031.24	8	2,673.17
1/4		1/4		1/4		1/4		1/4	4,811.08	1/4	4,455.10	1/4	4,097.58	1/4	3,739.65	1/4	3,023.78	1/4	2,665.71
1/2		1/2		1/2		1/2		1/2	4,803.68	1/2	4,447.67	1/2	4,090.12	1/2	3,732.19	1/2	3,016.33	1/2	2,658.25
3/4		3/4		3/4		3/4		3/4	4,796.28	3/4	4,440.23	3/4	4,082.66	3/4	3,724.73	3/4	3,008.87	3/4	2,650.79
9		9		9		9		9	4,788.89	9	4,432.80	9	4,075.21	9	3,717.28	9	3,001.41	9	2,643.33
1/4		1/4		1/4		1/4		1/4	4,781.49	1/4	4,425.36	1/4	4,067.75	1/4	3,709.82	1/4	2,993.96	1/4	2,635.87
1/2		1/2		1/2		1/2		1/2	4,774.10	1/2	4,417.93	1/2	4,060.29	1/2	3,702.36	1/2	2,986.50	1/2	2,628.41
3/4		3/4		3/4		3/4		3/4	4,766.70	3/4	4,410.49	3/4	4,052.84	3/4	3,694.91	3/4	2,979.04	3/4	2,620.94
10		10		10		10		10	4,759.31	10	4,403.06	10	4,045.38	10	3,687.45	10	2,971.59	10	2,613.48
1/4		1/4		1/4		1/4		1/4	4,751.91	1/4	4,395.62	1/4	4,037.92	1/4	3,679.99	1/4	2,964.13	1/4	2,606.02
1/2		1/2		1/2		1/2		1/2	4,744.52	1/2	4,388.19	1/2	4,030.47	1/2	3,672.54	1/2	2,956.67	1/2	2,598.56
3/4		3/4		3/4		3/4		3/4	4,737.12	3/4	4,380.75	3/4	4,023.01	3/4	3,665.08	3/4	2,949.22	3/4	2,591.10
11		11		11		11		11	4,729.73	11	4,373.31	11	4,015.55	11	3,657.62	11	2,941.76	11	2,583.64
1/4		1/4		1/4		1/4		1/4	4,722.33	1/4	4,365.88	1/4	4,008.10	1/4	3,650.16	1/4	2,934.30	1/4	2,576.18
1/2		1/2		1/2		1/2		1/2	4,714.94	1/2	4,358.44	1/2	4,000.64	1/2	3,642.71	1/2	2,926.85	1/2	2,568.72
3/4		3/4		3/4		3/4		3/4	4,707.54	3/4	4,351.01	3/4	3,993.18	3/4	3,635.25	3/4	2,919.38	3/4	2,561.26

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'-09" OFF CENTERLINE AND 41'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092

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BARGE "HTCO 3149"

1 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 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	2,553.80	0	2,195.67	0	1,837.55	0	1,479.43	0	1,121.33	0	765.34	0	411.47	0	95.57	0		0	
1/4	2,546.34	1/4	2,188.21	1/4	1,830.09	1/4	1,471.97	1/4	1,113.89	1/4	757.91	1/4	404.42	1/4	89.46	1/4		1/4	
1/2	2,538.87	1/2	2,180.75	1/2	1,822.63	1/2	1,464.51	1/2	1,106.44	1/2	750.47	1/2	397.36	1/2	83.36	1/2		1/2	
3/4	2,531.41	3/4	2,173.29	3/4	1,815.17	3/4	1,457.04	3/4	1,099.01	3/4	743.01	3/4	390.39	3/4	77.33	3/4		3/4	
1	2,523.95	1	2,165.83	1	1,807.71	1	1,449.58	1	1,091.58	1	735.55	1	383.42	1	71.30	1		1	
1/4	2,516.49	1/4	2,158.37	1/4	1,800.25	1/4	1,442.12	1/4	1,084.15	1/4	728.09	1/4	376.45	1/4	65.27	1/4		1/4	
1/2	2,509.03	1/2	2,150.91	1/2	1,792.78	1/2	1,434.66	1/2	1,076.72	1/2	720.63	1/2	369.48	1/2	59.25	1/2		1/2	
3/4	2,501.57	3/4	2,143.45	3/4	1,785.32	3/4	1,427.20	3/4	1,069.29	3/4	713.17	3/4	362.58	3/4	53.77	3/4		3/4	
2	2,494.11	2	2,135.99	2	1,777.86	2	1,419.74	2	1,061.87	2	705.71	2	355.69	2	48.29	2		2	
1/4	2,486.65	1/4	2,128.53	1/4	1,770.40	1/4	1,412.28	1/4	1,054.44	1/4	698.25	1/4	348.79	1/4	42.81	1/4		1/4	
1/2	2,479.19	1/2	2,121.06	1/2	1,762.94	1/2	1,404.82	1/2	1,047.02	1/2	690.79	1/2	341.89	1/2	37.33	1/2		1/2	
3/4	2,471.73	3/4	2,113.60	3/4	1,755.48	3/4	1,397.36	3/4	1,039.60	3/4	683.33	3/4	335.07	3/4	33.33	3/4		3/4	
3	2,464.27	3	2,106.14	3	1,748.02	3	1,389.90	3	1,032.18	3	675.87	3	328.25	3	29.33	3		3	
1/4	2,456.80	1/4	2,098.68	1/4	1,740.56	1/4	1,382.44	1/4	1,024.77	1/4	668.41	1/4	321.43	1/4	25.33	1/4		1/4	
1/2	2,449.34	1/2	2,091.22	1/2	1,733.10	1/2	1,374.97	1/2	1,017.35	1/2	660.94	1/2	314.60	1/2	21.33	1/2		1/2	
3/4	2,441.88	3/4	2,083.76	3/4	1,725.64	3/4	1,367.51	3/4	1,009.94	3/4	653.48	3/4	307.86	3/4	18.43	3/4		3/4	
4	2,434.42	4	2,076.30	4	1,718.18	4	1,360.05	4	1,002.52	4	646.02	4	301.12	4		4		4	
1/4	2,426.96	1/4	2,068.84	1/4	1,710.71	1/4	1,352.59	1/4	995.11	1/4	638.56	1/4	294.37	1/4		1/4		1/4	
1/2	2,419.50	1/2	2,061.38	1/2	1,703.25	1/2	1,345.13	1/2	987.70	1/2	631.10	1/2	287.63	1/2		1/2		1/2	
3/4	2,412.04	3/4	2,053.92	3/4	1,695.79	3/4	1,337.67	3/4	980.29	3/4	623.64	3/4	280.97	3/4		3/4		3/4	
5	2,404.58	5	2,046.46	5	1,688.33	5	1,330.21	5	972.88	5	616.18	5	274.31	5		5		5	
1/4	2,397.12	1/4	2,038.99	1/4	1,680.87	1/4	1,322.75	1/4	965.47	1/4	608.72	1/4	267.65	1/4		1/4		1/4	
1/2	2,389.66	1/2	2,031.53	1/2	1,673.41	1/2	1,315.29	1/2	958.06	1/2	601.26	1/2	260.98	1/2		1/2		1/2	
3/4	2,382.20	3/4	2,024.07	3/4	1,665.95	3/4	1,307.83	3/4	950.65	3/4	593.80	3/4	254.40	3/4		3/4		3/4	
6	2,374.73	6	2,016.61	6	1,658.49	6	1,300.37	6	943.24	6	586.34	6	247.82	6		6		6	
1/4	2,367.27	1/4	2,009.15	1/4	1,651.03	1/4	1,292.90	1/4	935.83	1/4	578.88	1/4	241.24	1/4		1/4		1/4	
1/2	2,359.81	1/2	2,001.69	1/2	1,643.57	1/2	1,285.44	1/2	928.42	1/2	571.42	1/2	234.66	1/2		1/2		1/2	
3/4	2,352.35	3/4	1,994.23	3/4	1,636.11	3/4	1,277.98	3/4	921.01	3/4	563.98	3/4	228.16	3/4		3/4		3/4	
7	2,344.89	7	1,986.77	7	1,628.64	7	1,270.52	7	913.60	7	556.54	7	221.66	7		7		7	
1/4	2,337.43	1/4	1,979.31	1/4	1,621.18	1/4	1,263.06	1/4	906.19	1/4	549.10	1/4	215.16	1/4		1/4		1/4	
1/2	2,329.97	1/2	1,971.85	1/2	1,613.72	1/2	1,255.60	1/2	898.78	1/2	541.66	1/2	208.67	1/2		1/2		1/2	
3/4	2,322.51	3/4	1,964.39	3/4	1,606.26	3/4	1,248.14	3/4	891.37	3/4	534.29	3/4	202.25	3/4		3/4		3/4	
8	2,315.05	8	1,956.92	8	1,598.80	8	1,240.68	8	883.96	8	526.91	8	195.83	8		8		8	
1/4	2,307.59	1/4	1,949.46	1/4	1,591.34	1/4	1,233.22	1/4	876.55	1/4	519.53	1/4	189.41	1/4		1/4		1/4	
1/2	2,300.13	1/2	1,942.00	1/2	1,583.88	1/2	1,225.76	1/2	869.14	1/2	512.16	1/2	183.00	1/2		1/2		1/2	
3/4	2,292.67	3/4	1,934.54	3/4	1,576.42	3/4	1,218.30	3/4	861.73	3/4	504.86	3/4	176.65	3/4		3/4		3/4	
9	2,285.20	9	1,927.08	9	1,568.96	9	1,210.83	9	854.32	9	497.56	9	170.31	9		9		9	
1/4	2,277.74	1/4	1,919.62	1/4	1,561.50	1/4	1,203.37	1/4	846.91	1/4	490.27	1/4	163.97	1/4		1/4		1/4	
1/2	2,270.28	1/2	1,912.16	1/2	1,554.04	1/2	1,195.91	1/2	839.50	1/2	482.97	1/2	157.62	1/2		1/2		1/2	
3/4	2,262.82	3/4	1,904.70	3/4	1,546.58	3/4	1,188.45	3/4	832.09	3/4	475.76	3/4	151.35	3/4		3/4		3/4	
10	2,255.36	10	1,897.24	10	1,539.11	10	1,180.99	10	824.68	10	468.54	10	145.08	10		10		10	
1/4	2,247.90	1/4	1,889.78	1/4	1,531.65	1/4	1,173.53	1/4	817.27	1/4	461.33	1/4	138.82	1/4		1/4		1/4	
1/2	2,240.44	1/2	1,882.32	1/2	1,524.19	1/2	1,166.07	1/2	809.86	1/2	454.11	1/2	132.55	1/2		1/2		1/2	
3/4	2,232.98	3/4	1,874.85	3/4	1,516.73	3/4	1,158.61	3/4	802.45	3/4	446.98	3/4	126.36	3/4		3/4		3/4	
11	2,225.52	11	1,867.39	11	1,509.27	11	1,151.15	11	795.04	11	439.84	11	120.17	11		11		11	
1/4	2,218.06	1/4	1,859.93	1/4	1,501.81	1/4	1,143.69	1/4	787.63	1/4	432.71	1/4	113.98	1/4		1/4		1/4	
1/2	2,210.60	1/2	1,852.47	1/2	1,494.35	1/2	1,136.23	1/2	780.22	1/2	425.57	1/2	107.79	1/2		1/2		1/2	
3/4	2,203.13	3/4	1,845.01	3/4	1,486.89	3/4	1,128.78	3/4	772.78	3/4	418.52	3/4	101.68	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/27/2015 CL
RECALCULATED: 10/15/2020 CL
REPRINTED: 10/16/2020 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2020

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



BARGE "HTCO 3149"

1 STBD 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	4,683.62	0	4,327.23	0	3,969.59	0	3,611.93	0	3,254.27	0	2,896.60
1/4		1/4		1/4		1/4		1/4	4,676.23	1/4	4,319.78	1/4	3,962.14	1/4	3,604.48	1/4	3,246.82	1/4	2,889.14
1/2		1/2		1/2		1/2		1/2	4,668.84	1/2	4,312.34	1/2	3,954.69	1/2	3,597.03	1/2	3,239.37	1/2	2,881.69
3/4		3/4		3/4		3/4		3/4	5,004.55	3/4	4,661.45	3/4	4,304.90	3/4	3,947.24	3/4	3,589.58	3/4	3,231.92
1		1		1		1		1	4,999.82	1	4,654.06	1	4,297.45	1	3,939.79	1	3,582.13	1	3,224.46
1/4		1/4		1/4		1/4		1/4	4,994.02	1/4	4,646.65	1/4	4,290.00	1/4	3,932.34	1/4	3,574.68	1/4	3,217.01
1/2		1/2		1/2		1/2		1/2	4,988.23	1/2	4,639.24	1/2	4,282.55	1/2	3,924.89	1/2	3,567.22	1/2	3,209.56
3/4		3/4		3/4		3/4		3/4	4,982.43	3/4	4,631.83	3/4	4,275.10	3/4	3,917.43	3/4	3,559.77	3/4	3,202.11
2		2		2		2		2	4,976.63	2	4,624.42	2	4,267.65	2	3,909.98	2	3,552.32	2	3,194.66
1/4		1/4		1/4		1/4		1/4	4,969.84	1/4	4,616.99	1/4	4,260.19	1/4	3,902.53	1/4	3,544.87	1/4	3,187.21
1/2		1/2		1/2		1/2		1/2	4,963.05	1/2	4,609.56	1/2	4,252.74	1/2	3,895.08	1/2	3,537.42	1/2	3,179.76
3/4		3/4		3/4		3/4		3/4	4,956.25	3/4	4,602.13	3/4	4,245.29	3/4	3,887.63	3/4	3,529.97	3/4	3,172.30
3		3		3		3		3	4,949.46	3	4,594.70	3	4,237.84	3	3,880.18	3	3,522.52	3	3,164.85
1/4		1/4		1/4		1/4		1/4	4,942.13	1/4	4,587.27	1/4	4,230.39	1/4	3,872.73	1/4	3,515.06	1/4	3,157.40
1/2		1/2		1/2		1/2		1/2	4,934.80	1/2	4,579.84	1/2	4,222.94	1/2	3,865.28	1/2	3,507.61	1/2	3,149.95
3/4		3/4		3/4		3/4		3/4	4,927.48	3/4	4,572.41	3/4	4,215.49	3/4	3,857.82	3/4	3,500.16	3/4	3,142.50
4		4		4		4		4	4,920.15	4	4,564.98	4	4,208.04	4	3,850.37	4	3,492.71	4	3,135.05
1/4		1/4		1/4		1/4		1/4	4,912.76	1/4	4,557.55	1/4	4,200.58	1/4	3,842.92	1/4	3,485.26	1/4	3,127.60
1/2		1/2		1/2		1/2		1/2	4,905.36	1/2	4,550.12	1/2	4,193.13	1/2	3,835.47	1/2	3,477.81	1/2	3,120.15
3/4		3/4		3/4		3/4		3/4	4,897.97	3/4	4,542.69	3/4	4,185.68	3/4	3,828.02	3/4	3,470.36	3/4	3,112.69
5		5		5		5		5	4,890.57	5	4,535.26	5	4,178.23	5	3,820.57	5	3,462.91	5	3,105.24
1/4		1/4		1/4		1/4		1/4	4,883.18	1/4	4,527.83	1/4	4,170.78	1/4	3,813.12	1/4	3,455.45	1/4	3,097.79
1/2		1/2		1/2		1/2		1/2	4,875.79	1/2	4,520.40	1/2	4,163.33	1/2	3,805.67	1/2	3,448.00	1/2	3,090.34
3/4		3/4		3/4		3/4		3/4	4,868.39	3/4	4,512.97	3/4	4,155.88	3/4	3,798.21	3/4	3,440.55	3/4	3,082.89
6		6		6		6		6	4,861.00	6	4,505.54	6	4,148.43	6	3,790.76	6	3,433.10	6	3,075.44
1/4		1/4		1/4		1/4		1/4	4,853.60	1/4	4,498.11	1/4	4,140.97	1/4	3,783.31	1/4	3,425.65	1/4	3,067.99
1/2		1/2		1/2		1/2		1/2	4,846.21	1/2	4,490.68	1/2	4,133.52	1/2	3,775.86	1/2	3,418.20	1/2	3,060.54
3/4		3/4		3/4		3/4		3/4	4,838.82	3/4	4,483.25	3/4	4,126.07	3/4	3,768.41	3/4	3,410.75	3/4	3,053.08
7		7		7		7		7	4,831.42	7	4,475.82	7	4,118.62	7	3,760.96	7	3,403.30	7	3,045.63
1/4		1/4		1/4		1/4		1/4	4,824.03	1/4	4,468.39	1/4	4,111.17	1/4	3,753.51	1/4	3,395.84	1/4	3,038.18
1/2		1/2		1/2		1/2		1/2	4,816.64	1/2	4,460.96	1/2	4,103.72	1/2	3,746.05	1/2	3,388.39	1/2	3,030.73
3/4		3/4		3/4		3/4		3/4	4,809.25	3/4	4,453.53	3/4	4,096.27	3/4	3,738.60	3/4	3,380.94	3/4	3,023.28
8		8		8		8		8	4,801.86	8	4,446.10	8	4,088.81	8	3,731.15	8	3,373.49	8	3,015.83
1/4		1/4		1/4		1/4		1/4	4,794.47	1/4	4,438.67	1/4	4,081.36	1/4	3,723.70	1/4	3,366.04	1/4	3,008.38
1/2		1/2		1/2		1/2		1/2	4,787.08	1/2	4,431.24	1/2	4,073.91	1/2	3,716.25	1/2	3,358.59	1/2	3,000.92
3/4		3/4		3/4		3/4		3/4	4,779.69	3/4	4,423.81	3/4	4,066.46	3/4	3,708.80	3/4	3,351.14	3/4	2,993.47
9		9		9		9		9	4,772.30	9	4,416.38	9	4,059.01	9	3,701.35	9	3,343.68	9	2,986.02
1/4		1/4		1/4		1/4		1/4	4,764.91	1/4	4,408.96	1/4	4,051.56	1/4	3,693.90	1/4	3,336.23	1/4	2,978.57
1/2		1/2		1/2		1/2		1/2	4,757.52	1/2	4,401.53	1/2	4,044.11	1/2	3,686.44	1/2	3,328.78	1/2	2,971.12
3/4		3/4		3/4		3/4		3/4	4,750.13	3/4	4,394.10	3/4	4,036.66	3/4	3,678.99	3/4	3,321.33	3/4	2,963.67
10		10		10		10		10	4,742.74	10	4,386.67	10	4,029.20	10	3,671.54	10	3,313.88	10	2,956.22
1/4		1/4		1/4		1/4		1/4	4,735.35	1/4	4,379.24	1/4	4,021.75	1/4	3,664.09	1/4	3,306.43	1/4	2,948.77
1/2		1/2		1/2		1/2		1/2	4,727.96	1/2	4,371.81	1/2	4,014.30	1/2	3,656.64	1/2	3,298.98	1/2	2,941.31
3/4		3/4		3/4		3/4		3/4	4,720.57	3/4	4,364.38	3/4	4,006.85	3/4	3,649.19	3/4	3,291.53	3/4	2,933.86
11		11		11		11		11	4,713.18	11	4,356.95	11	3,999.40	11	3,641.74	11	3,284.07	11	2,926.41
1/4		1/4		1/4		1/4		1/4	4,705.79	1/4	4,349.52	1/4	3,991.95	1/4	3,634.29	1/4	3,276.62	1/4	2,918.96
1/2		1/2		1/2		1/2		1/2	4,698.40	1/2	4,342.09	1/2	3,984.50	1/2	3,626.83	1/2	3,269.17	1/2	2,911.51
3/4		3/4		3/4		3/4		3/4	4,691.01	3/4	4,334.66	3/4	3,977.05	3/4	3,619.38	3/4	3,261.72	3/4	2,904.05

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'-09" OFF CENTERLINE AND 41'-00" FORWARD OF AFT BULKHEAD.

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



BARGE "HTCO 3149"

1 STBD

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	2,538.74	0	2,180.88	0	1,823.02	0	1,465.16	0	1,107.30	0	749.94	0	397.14	0	83.32	0		0	
1/4	2,531.28	1/4	2,173.42	1/4	1,815.57	1/4	1,457.71	1/4	1,099.85	1/4	742.48	1/4	390.18	1/4	77.29	1/4		1/4	
1/2	2,523.83	1/2	2,165.97	1/2	1,808.11	1/2	1,450.25	1/2	1,092.39	1/2	735.03	1/2	383.21	1/2	71.27	1/2		1/2	
3/4	2,516.37	3/4	2,158.51	3/4	1,800.65	3/4	1,442.80	3/4	1,084.94	3/4	727.57	3/4	376.25	3/4	65.24	3/4		3/4	
1	2,508.92	1	2,151.06	1	1,793.20	1	1,435.34	1	1,077.48	1	720.12	1	369.28	1	59.22	1		1	
1/4	2,501.46	1/4	2,143.60	1/4	1,785.74	1/4	1,427.88	1/4	1,070.03	1/4	712.66	1/4	362.39	1/4	53.74	1/4		1/4	
1/2	2,494.01	1/2	2,136.15	1/2	1,778.29	1/2	1,420.43	1/2	1,062.58	1/2	705.21	1/2	355.50	1/2	48.26	1/2		1/2	
3/4	2,486.55	3/4	2,128.69	3/4	1,770.83	3/4	1,412.97	3/4	1,055.12	3/4	697.75	3/4	348.60	3/4	42.79	3/4		3/4	
2	2,479.10	2	2,121.24	2	1,763.38	2	1,405.52	2	1,047.67	2	690.30	2	341.71	2	37.31	2		2	
1/4	2,471.64	1/4	2,113.78	1/4	1,755.92	1/4	1,398.06	1/4	1,040.22	1/4	682.84	1/4	334.89	1/4	33.31	1/4		1/4	
1/2	2,464.19	1/2	2,106.33	1/2	1,748.47	1/2	1,390.61	1/2	1,032.77	1/2	675.39	1/2	328.07	1/2	29.32	1/2		1/2	
3/4	2,456.73	3/4	2,098.87	3/4	1,741.01	3/4	1,383.15	3/4	1,025.33	3/4	667.93	3/4	321.26	3/4	25.32	3/4		3/4	
3	2,449.27	3	2,091.42	3	1,733.56	3	1,375.70	3	1,017.88	3	660.48	3	314.44	3	21.32	3		3	
1/4	2,441.82	1/4	2,083.96	1/4	1,726.10	1/4	1,368.24	1/4	1,010.43	1/4	653.02	1/4	307.70	1/4	18.42	1/4		1/4	
1/2	2,434.36	1/2	2,076.50	1/2	1,718.65	1/2	1,360.79	1/2	1,002.99	1/2	645.57	1/2	300.96	1/2		1/2		1/2	
3/4	2,426.91	3/4	2,069.05	3/4	1,711.19	3/4	1,353.33	3/4	995.54	3/4	638.11	3/4	294.22	3/4		3/4		3/4	
4	2,419.45	4	2,061.59	4	1,703.73	4	1,345.88	4	988.10	4	630.66	4	287.48	4		4		4	
1/4	2,412.00	1/4	2,054.14	1/4	1,696.28	1/4	1,338.42	1/4	980.66	1/4	623.20	1/4	280.82	1/4		1/4		1/4	
1/2	2,404.54	1/2	2,046.68	1/2	1,688.82	1/2	1,330.96	1/2	973.21	1/2	615.75	1/2	274.17	1/2		1/2		1/2	
3/4	2,397.09	3/4	2,039.23	3/4	1,681.37	3/4	1,323.51	3/4	965.77	3/4	608.29	3/4	267.51	3/4		3/4		3/4	
5	2,389.63	5	2,031.77	5	1,673.91	5	1,316.05	5	958.33	5	600.84	5	260.85	5		5		5	
1/4	2,382.18	1/4	2,024.32	1/4	1,666.46	1/4	1,308.60	1/4	950.89	1/4	593.38	1/4	254.27	1/4		1/4		1/4	
1/2	2,374.72	1/2	2,016.86	1/2	1,659.00	1/2	1,301.14	1/2	943.45	1/2	585.93	1/2	247.70	1/2		1/2		1/2	
3/4	2,367.27	3/4	2,009.41	3/4	1,651.55	3/4	1,293.69	3/4	936.01	3/4	578.47	3/4	241.12	3/4		3/4		3/4	
6	2,359.81	6	2,001.95	6	1,644.09	6	1,286.23	6	928.56	6	571.02	6	234.54	6		6		6	
1/4	2,352.35	1/4	1,994.50	1/4	1,636.64	1/4	1,278.78	1/4	921.12	1/4	563.59	1/4	228.05	1/4		1/4		1/4	
1/2	2,344.90	1/2	1,987.04	1/2	1,629.18	1/2	1,271.32	1/2	913.68	1/2	556.16	1/2	221.55	1/2		1/2		1/2	
3/4	2,337.44	3/4	1,979.58	3/4	1,621.73	3/4	1,263.87	3/4	906.24	3/4	548.73	3/4	215.06	3/4		3/4		3/4	
7	2,329.99	7	1,972.13	7	1,614.27	7	1,256.41	7	898.80	7	541.30	7	208.56	7		7		7	
1/4	2,322.53	1/4	1,964.67	1/4	1,606.81	1/4	1,248.96	1/4	891.36	1/4	533.93	1/4	202.15	1/4		1/4		1/4	
1/2	2,315.08	1/2	1,957.22	1/2	1,599.36	1/2	1,241.50	1/2	883.92	1/2	526.57	1/2	195.73	1/2		1/2		1/2	
3/4	2,307.62	3/4	1,949.76	3/4	1,591.90	3/4	1,234.04	3/4	876.47	3/4	519.21	3/4	189.32	3/4		3/4		3/4	
8	2,300.17	8	1,942.31	8	1,584.45	8	1,226.59	8	869.03	8	511.84	8	182.91	8		8		8	
1/4	2,292.71	1/4	1,934.85	1/4	1,576.99	1/4	1,219.13	1/4	861.59	1/4	504.56	1/4	176.57	1/4		1/4		1/4	
1/2	2,285.26	1/2	1,927.40	1/2	1,569.54	1/2	1,211.68	1/2	854.15	1/2	497.27	1/2	170.23	1/2		1/2		1/2	
3/4	2,277.80	3/4	1,919.94	3/4	1,562.08	3/4	1,204.22	3/4	846.71	3/4	489.98	3/4	163.89	3/4		3/4		3/4	
9	2,270.35	9	1,912.49	9	1,554.63	9	1,196.77	9	839.27	9	482.70	9	157.55	9		9		9	
1/4	2,262.89	1/4	1,905.03	1/4	1,547.17	1/4	1,189.31	1/4	831.82	1/4	475.48	1/4	151.28	1/4		1/4		1/4	
1/2	2,255.43	1/2	1,897.58	1/2	1,539.72	1/2	1,181.86	1/2	824.38	1/2	468.27	1/2	145.02	1/2		1/2		1/2	
3/4	2,247.98	3/4	1,890.12	3/4	1,532.26	3/4	1,174.40	3/4	816.94	3/4	461.06	3/4	138.75	3/4		3/4		3/4	
10	2,240.52	10	1,882.66	10	1,524.81	10	1,166.95	10	809.50	10	453.85	10	132.48	10		10		10	
1/4	2,233.07	1/4	1,875.21	1/4	1,517.35	1/4	1,159.49	1/4	802.06	1/4	446.72	1/4	126.30	1/4		1/4		1/4	
1/2	2,225.61	1/2	1,867.75	1/2	1,509.89	1/2	1,152.04	1/2	794.62	1/2	439.59	1/2	120.11	1/2		1/2		1/2	
3/4	2,218.16	3/4	1,860.30	3/4	1,502.44	3/4	1,144.58	3/4	787.17	3/4	432.47	3/4	113.92	3/4		3/4		3/4	
11	2,210.70	11	1,852.84	11	1,494.98	11	1,137.12	11	779.73	11	425.34	11	107.74	11		11		11	
1/4	2,203.25	1/4	1,845.39	1/4	1,487.53	1/4	1,129.67	1/4	772.28	1/4	418.29	1/4	101.63	1/4		1/4		1/4	
1/2	2,195.79	1/2	1,837.93	1/2	1,480.07	1/2	1,122.21	1/2	764.84	1/2	411.24	1/2	95.53	1/2		1/2		1/2	
3/4	2,188.34	3/4	1,830.48	3/4	1,472.62	3/4	1,114.76	3/4	757.39	3/4	404.19	3/4	89.42	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/27/2015 CL
RECALCULATED: 10/15/2020 CL
REPRINTED: 10/16/2020 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2020

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "HTCO 3149"

2 PORT 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	4,763.36	0	4,405.83	0	4,047.04	0	3,688.20	0	3,329.35	0	2,970.51
1/4		1/4		1/4		1/4		1/4	4,755.94	1/4	4,398.38	1/4	4,039.56	1/4	3,680.72	1/4	3,321.88	1/4	2,963.03
1/2		1/2		1/2		1/2		1/2	4,748.53	1/2	4,390.91	1/2	4,032.09	1/2	3,673.25	1/2	3,314.40	1/2	2,955.55
3/4		3/4		3/4		3/4		3/4	4,741.11	3/4	4,383.44	3/4	4,024.61	3/4	3,665.77	3/4	3,306.93	3/4	2,948.07
1		1		1		1	5,077.96	1	4,733.70	1	4,375.97	1	4,017.14	1	3,658.29	1	3,299.45	1	2,940.59
1/4		1/4		1/4		1/4	5,073.21	1/4	4,726.28	1/4	4,368.50	1/4	4,009.66	1/4	3,650.82	1/4	3,291.97	1/4	2,933.11
1/2		1/2		1/2		1/2	5,067.40	1/2	4,718.85	1/2	4,361.03	1/2	4,002.18	1/2	3,643.34	1/2	3,284.50	1/2	2,925.63
3/4		3/4		3/4		3/4	5,061.58	3/4	4,711.42	3/4	4,353.55	3/4	3,994.71	3/4	3,635.87	3/4	3,277.02	3/4	2,918.15
2		2		2		2	5,055.77	2	4,703.98	2	4,346.08	2	3,987.23	2	3,628.39	2	3,269.55	2	2,910.67
1/4		1/4		1/4		1/4	5,049.95	1/4	4,696.55	1/4	4,338.60	1/4	3,979.76	1/4	3,620.91	1/4	3,262.07	1/4	2,903.19
1/2		1/2		1/2		1/2	5,043.13	1/2	4,689.09	1/2	4,331.12	1/2	3,972.28	1/2	3,613.44	1/2	3,254.59	1/2	2,895.71
3/4		3/4		3/4		3/4	5,036.31	3/4	4,681.64	3/4	4,323.65	3/4	3,964.81	3/4	3,605.96	3/4	3,247.12	3/4	2,888.23
3		3		3		3	5,029.50	3	4,674.18	3	4,316.17	3	3,957.33	3	3,598.49	3	3,239.64	3	2,880.75
1/4		1/4		1/4		1/4	5,022.68	1/4	4,666.73	1/4	4,308.70	1/4	3,949.85	1/4	3,591.01	1/4	3,232.17	1/4	2,873.27
1/2		1/2		1/2		1/2	5,015.32	1/2	4,659.28	1/2	4,301.22	1/2	3,942.38	1/2	3,583.53	1/2	3,224.69	1/2	2,865.79
3/4		3/4		3/4		3/4	5,007.97	3/4	4,651.82	3/4	4,293.74	3/4	3,934.90	3/4	3,576.06	3/4	3,217.22	3/4	2,858.31
4		4		4		4	5,000.62	4	4,644.37	4	4,286.27	4	3,927.43	4	3,568.58	4	3,209.74	4	2,850.83
1/4		1/4		1/4		1/4	4,993.27	1/4	4,636.91	1/4	4,278.79	1/4	3,919.95	1/4	3,561.11	1/4	3,202.26	1/4	2,843.35
1/2		1/2		1/2		1/2	4,985.85	1/2	4,629.46	1/2	4,271.32	1/2	3,912.47	1/2	3,553.63	1/2	3,194.79	1/2	2,835.87
3/4		3/4		3/4		3/4	4,978.43	3/4	4,622.00	3/4	4,263.84	3/4	3,905.00	3/4	3,546.15	3/4	3,187.31	3/4	2,828.39
5		5		5		5	4,971.01	5	4,614.55	5	4,256.37	5	3,897.52	5	3,538.68	5	3,179.84	5	2,820.91
1/4		1/4		1/4		1/4	4,963.59	1/4	4,607.10	1/4	4,248.89	1/4	3,890.05	1/4	3,531.20	1/4	3,172.36	1/4	2,813.43
1/2		1/2		1/2		1/2	4,956.17	1/2	4,599.64	1/2	4,241.41	1/2	3,882.57	1/2	3,523.73	1/2	3,164.88	1/2	2,805.95
3/4		3/4		3/4		3/4	4,948.75	3/4	4,592.19	3/4	4,233.94	3/4	3,875.09	3/4	3,516.25	3/4	3,157.41	3/4	2,798.47
6		6		6		6	4,941.34	6	4,584.73	6	4,226.46	6	3,867.62	6	3,508.78	6	3,149.93	6	2,790.99
1/4		1/4		1/4		1/4	4,933.92	1/4	4,577.28	1/4	4,218.99	1/4	3,860.14	1/4	3,501.30	1/4	3,142.46	1/4	2,783.51
1/2		1/2		1/2		1/2	4,926.50	1/2	4,569.82	1/2	4,211.51	1/2	3,852.67	1/2	3,493.82	1/2	3,134.98	1/2	2,776.03
3/4		3/4		3/4		3/4	4,919.08	3/4	4,562.37	3/4	4,204.03	3/4	3,845.19	3/4	3,486.35	3/4	3,127.50	3/4	2,768.55
7		7		7		7	4,911.66	7	4,554.92	7	4,196.56	7	3,837.72	7	3,478.87	7	3,120.03	7	2,761.07
1/4		1/4		1/4		1/4	4,904.24	1/4	4,547.46	1/4	4,189.08	1/4	3,830.24	1/4	3,471.40	1/4	3,112.55	1/4	2,753.59
1/2		1/2		1/2		1/2	4,896.83	1/2	4,540.01	1/2	4,181.61	1/2	3,822.76	1/2	3,463.92	1/2	3,105.08	1/2	2,746.11
3/4		3/4		3/4		3/4	4,889.41	3/4	4,532.55	3/4	4,174.13	3/4	3,815.29	3/4	3,456.44	3/4	3,097.60	3/4	2,738.63
8		8		8		8	4,881.99	8	4,525.10	8	4,166.65	8	3,807.81	8	3,448.97	8	3,090.13	8	2,731.15
1/4		1/4		1/4		1/4	4,874.58	1/4	4,517.64	1/4	4,159.18	1/4	3,800.34	1/4	3,441.49	1/4	3,082.65	1/4	2,723.67
1/2		1/2		1/2		1/2	4,867.16	1/2	4,510.19	1/2	4,151.70	1/2	3,792.86	1/2	3,434.02	1/2	3,075.17	1/2	2,716.19
3/4		3/4		3/4		3/4	4,859.75	3/4	4,502.74	3/4	4,144.23	3/4	3,785.38	3/4	3,426.54	3/4	3,067.70	3/4	2,708.71
9		9		9		9	4,852.33	9	4,495.28	9	4,136.75	9	3,777.91	9	3,419.06	9	3,060.22	9	2,701.23
1/4		1/4		1/4		1/4	4,844.92	1/4	4,487.83	1/4	4,129.28	1/4	3,770.43	1/4	3,411.59	1/4	3,052.75	1/4	2,693.75
1/2		1/2		1/2		1/2	4,837.50	1/2	4,480.37	1/2	4,121.80	1/2	3,762.96	1/2	3,404.11	1/2	3,045.27	1/2	2,686.27
3/4		3/4		3/4		3/4	4,830.09	3/4	4,472.92	3/4	4,114.32	3/4	3,755.48	3/4	3,396.64	3/4	3,037.79	3/4	2,678.79
10		10		10		10	4,822.67	10	4,465.46	10	4,106.85	10	3,748.00	10	3,389.16	10	3,030.32	10	2,671.31
1/4		1/4		1/4		1/4	4,815.26	1/4	4,458.01	1/4	4,099.37	1/4	3,740.53	1/4	3,381.69	1/4	3,022.84	1/4	2,663.83
1/2		1/2		1/2		1/2	4,807.84	1/2	4,450.56	1/2	4,091.90	1/2	3,733.05	1/2	3,374.21	1/2	3,015.37	1/2	2,656.35
3/4		3/4		3/4		3/4	4,800.43	3/4	4,443.10	3/4	4,084.42	3/4	3,725.58	3/4	3,366.73	3/4	3,007.89	3/4	2,648.87
11		11		11		11	4,793.02	11	4,435.65	11	4,076.94	11	3,718.10	11	3,359.26	11	3,000.41	11	2,641.39
1/4		1/4		1/4		1/4	4,785.60	1/4	4,428.19	1/4	4,069.47	1/4	3,710.62	1/4	3,351.78	1/4	2,992.94	1/4	2,633.91
1/2		1/2		1/2		1/2	4,778.19	1/2	4,420.74	1/2	4,061.99	1/2	3,703.15	1/2	3,344.31	1/2	2,985.46	1/2	2,626.43
3/4		3/4		3/4		3/4	4,770.77	3/4	4,413.28	3/4	4,054.52	3/4	3,695.67	3/4	3,336.83	3/4	2,977.99	3/4	2,618.95

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'-09" OFF CENTERLINE AND 41'-00" 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 "HTCO 3149"

2 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,611.47	0	2,252.43	0	1,893.39	0	1,534.35	0	1,175.74	0	830.47	0	471.60	0	112.57	0		0	
1/4	2,603.99	1/4	2,244.95	1/4	1,885.91	1/4	1,526.87	1/4	1,168.40	1/4	823.15	1/4	464.12	1/4	105.09	1/4		1/4	
1/2	2,596.51	1/2	2,237.47	1/2	1,878.43	1/2	1,519.39	1/2	1,161.20	1/2	815.67	1/2	456.64	1/2	97.61	1/2		1/2	
3/4	2,589.03	3/4	2,229.99	3/4	1,870.95	3/4	1,511.91	3/4	1,154.00	3/4	808.19	3/4	449.16	3/4	90.13	3/4		3/4	
1	2,581.55	1	2,222.51	1	1,863.47	1	1,504.43	1	1,146.80	1	800.71	1	441.68	1	82.65	1		1	
1/4	2,574.07	1/4	2,215.03	1/4	1,855.99	1/4	1,496.95	1/4	1,139.61	1/4	793.23	1/4	434.20	1/4	75.17	1/4		1/4	
1/2	2,566.59	1/2	2,207.55	1/2	1,848.51	1/2	1,489.47	1/2	1,132.42	1/2	785.75	1/2	426.72	1/2	68.15	1/2		1/2	
3/4	2,559.11	3/4	2,200.07	3/4	1,841.03	3/4	1,481.99	3/4	1,125.23	3/4	778.27	3/4	419.24	3/4	61.14	3/4		3/4	
2	2,551.63	2	2,192.59	2	1,833.55	2	1,474.51	2	1,118.03	2	770.79	2	411.76	2	54.13	2		2	
1/4	2,544.15	1/4	2,185.11	1/4	1,826.07	1/4	1,467.03	1/4	1,110.84	1/4	763.31	1/4	404.28	1/4	47.12	1/4		1/4	
1/2	2,536.67	1/2	2,177.63	1/2	1,818.59	1/2	1,459.55	1/2	1,103.66	1/2	755.83	1/2	396.80	1/2	41.51	1/2		1/2	
3/4	2,529.19	3/4	2,170.15	3/4	1,811.11	3/4	1,452.07	3/4	1,096.48	3/4	748.35	3/4	389.32	3/4	35.90	3/4		3/4	
3	2,521.71	3	2,162.67	3	1,803.63	3	1,444.59	3	1,089.29	3	740.87	3	381.84	3	30.29	3		3	
1/4	2,514.23	1/4	2,155.19	1/4	1,796.15	1/4	1,437.11	1/4	1,082.11	1/4	733.39	1/4	374.36	1/4	24.68	1/4		1/4	
1/2	2,506.75	1/2	2,147.71	1/2	1,788.67	1/2	1,429.63	1/2	1,074.93	1/2	725.91	1/2	366.88	1/2	20.93	1/2		1/2	
3/4	2,499.27	3/4	2,140.23	3/4	1,781.19	3/4	1,422.15	3/4	1,067.75	3/4	718.43	3/4	359.40	3/4		3/4		3/4	
4	2,491.79	4	2,132.75	4	1,773.71	4	1,414.67	4	1,060.57	4	710.95	4	351.92	4		4		4	
1/4	2,484.31	1/4	2,125.27	1/4	1,766.23	1/4	1,407.19	1/4	1,053.39	1/4	703.47	1/4	344.44	1/4		1/4		1/4	
1/2	2,476.83	1/2	2,117.79	1/2	1,758.75	1/2	1,399.71	1/2	1,046.21	1/2	695.99	1/2	336.96	1/2		1/2		1/2	
3/4	2,469.35	3/4	2,110.31	3/4	1,751.27	3/4	1,392.23	3/4	1,039.04	3/4	688.51	3/4	329.48	3/4		3/4		3/4	
5	2,461.87	5	2,102.83	5	1,743.79	5	1,384.75	5	1,031.86	5	681.03	5	322.00	5		5		5	
1/4	2,454.39	1/4	2,095.35	1/4	1,736.31	1/4	1,377.27	1/4	1,024.68	1/4	673.55	1/4	314.52	1/4		1/4		1/4	
1/2	2,446.91	1/2	2,087.87	1/2	1,728.83	1/2	1,369.79	1/2	1,017.51	1/2	666.07	1/2	307.04	1/2		1/2		1/2	
3/4	2,439.43	3/4	2,080.39	3/4	1,721.35	3/4	1,362.31	3/4	1,010.33	3/4	658.59	3/4	299.56	3/4		3/4		3/4	
6	2,431.95	6	2,072.91	6	1,713.87	6	1,354.83	6	1,003.16	6	651.11	6	292.08	6		6		6	
1/4	2,424.47	1/4	2,065.43	1/4	1,706.39	1/4	1,347.35	1/4	995.98	1/4	643.63	1/4	284.60	1/4		1/4		1/4	
1/2	2,416.99	1/2	2,057.95	1/2	1,698.91	1/2	1,339.87	1/2	988.80	1/2	636.15	1/2	277.12	1/2		1/2		1/2	
3/4	2,409.51	3/4	2,050.47	3/4	1,691.43	3/4	1,332.39	3/4	981.63	3/4	628.67	3/4	269.64	3/4		3/4		3/4	
7	2,402.03	7	2,042.99	7	1,683.95	7	1,324.91	7	974.45	7	621.19	7	262.16	7		7		7	
1/4	2,394.55	1/4	2,035.51	1/4	1,676.47	1/4	1,317.43	1/4	967.27	1/4	613.71	1/4	254.68	1/4		1/4		1/4	
1/2	2,387.07	1/2	2,028.03	1/2	1,668.99	1/2	1,309.95	1/2	960.10	1/2	606.23	1/2	247.20	1/2		1/2		1/2	
3/4	2,379.59	3/4	2,020.55	3/4	1,661.51	3/4	1,302.47	3/4	952.92	3/4	598.75	3/4	239.72	3/4		3/4		3/4	
8	2,372.11	8	2,013.07	8	1,654.03	8	1,294.99	8	945.75	8	591.27	8	232.24	8		8		8	
1/4	2,364.63	1/4	2,005.59	1/4	1,646.55	1/4	1,287.51	1/4	938.57	1/4	583.79	1/4	224.76	1/4		1/4		1/4	
1/2	2,357.15	1/2	1,998.11	1/2	1,639.07	1/2	1,280.03	1/2	931.39	1/2	576.31	1/2	217.28	1/2		1/2		1/2	
3/4	2,349.67	3/4	1,990.63	3/4	1,631.59	3/4	1,272.55	3/4	924.22	3/4	568.83	3/4	209.80	3/4		3/4		3/4	
9	2,342.19	9	1,983.15	9	1,624.11	9	1,265.07	9	917.04	9	561.35	9	202.32	9		9		9	
1/4	2,334.71	1/4	1,975.67	1/4	1,616.63	1/4	1,257.59	1/4	909.86	1/4	553.87	1/4	194.84	1/4		1/4		1/4	
1/2	2,327.23	1/2	1,968.19	1/2	1,609.15	1/2	1,250.11	1/2	902.69	1/2	546.39	1/2	187.36	1/2		1/2		1/2	
3/4	2,319.75	3/4	1,960.71	3/4	1,601.67	3/4	1,242.63	3/4	895.51	3/4	538.91	3/4	179.88	3/4		3/4		3/4	
10	2,312.27	10	1,953.23	10	1,594.19	10	1,235.15	10	888.34	10	531.43	10	172.40	10		10		10	
1/4	2,304.79	1/4	1,945.75	1/4	1,586.71	1/4	1,227.67	1/4	881.16	1/4	523.95	1/4	164.92	1/4		1/4		1/4	
1/2	2,297.31	1/2	1,938.27	1/2	1,579.23	1/2	1,220.19	1/2	873.98	1/2	516.47	1/2	157.44	1/2		1/2		1/2	
3/4	2,289.83	3/4	1,930.79	3/4	1,571.75	3/4	1,212.71	3/4	866.81	3/4	508.99	3/4	149.96	3/4		3/4		3/4	
11	2,282.35	11	1,923.31	11	1,564.27	11	1,205.23	11	859.63	11	501.51	11	142.48	11		11		11	
1/4	2,274.87	1/4	1,915.83	1/4	1,556.79	1/4	1,197.75	1/4	852.45	1/4	494.04	1/4	135.00	1/4		1/4		1/4	
1/2	2,267.39	1/2	1,908.35	1/2	1,549.31	1/2	1,190.41	1/2	845.13	1/2	486.56	1/2	127.52	1/2		1/2		1/2	
3/4	2,259.91	3/4	1,900.87	3/4	1,541.83	3/4	1,183.07	3/4	837.80	3/4	479.08	3/4	120.05	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/27/2015 CL
RECALCULATED: 10/15/2020 CL
REPRINTED: 10/16/2020 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2020

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



BARGE "HTCO 3149"

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	4,777.24	0	4,419.71	0	4,060.94	0	3,702.09	0	3,343.24	0	2,984.39
1/4		1/4		1/4		1/4		1/4	4,769.82	1/4	4,412.26	1/4	4,053.46	1/4	3,694.61	1/4	3,335.77	1/4	2,976.92
1/2		1/2		1/2		1/2		1/2	4,762.41	1/2	4,404.79	1/2	4,045.99	1/2	3,687.14	1/2	3,328.29	1/2	2,969.44
3/4		3/4		3/4		3/4		3/4	4,754.99	3/4	4,397.33	3/4	4,038.51	3/4	3,679.66	3/4	3,320.81	3/4	2,961.96
1		1		1		1	5,091.83	1	4,747.58	1	4,389.87	1	4,031.03	1	3,672.19	1	3,313.34	1	2,954.48
1/4		1/4		1/4		1/4	5,087.08	1/4	4,740.16	1/4	4,382.41	1/4	4,023.56	1/4	3,664.71	1/4	3,305.86	1/4	2,947.00
1/2		1/2		1/2		1/2	5,081.27	1/2	4,732.73	1/2	4,374.93	1/2	4,016.08	1/2	3,657.23	1/2	3,298.39	1/2	2,939.52
3/4		3/4		3/4		3/4	5,075.45	3/4	4,725.30	3/4	4,367.45	3/4	4,008.61	3/4	3,649.76	3/4	3,290.91	3/4	2,932.04
2		2		2		2	5,069.64	2	4,717.86	2	4,359.98	2	4,001.13	2	3,642.28	2	3,283.43	2	2,924.56
1/4		1/4		1/4		1/4	5,063.82	1/4	4,710.43	1/4	4,352.50	1/4	3,993.65	1/4	3,634.81	1/4	3,275.96	1/4	2,917.08
1/2		1/2		1/2		1/2	5,057.00	1/2	4,702.98	1/2	4,345.03	1/2	3,986.18	1/2	3,627.33	1/2	3,268.48	1/2	2,909.60
3/4		3/4		3/4		3/4	5,050.19	3/4	4,695.52	3/4	4,337.55	3/4	3,978.70	3/4	3,619.85	3/4	3,261.01	3/4	2,902.12
3		3		3		3	5,043.37	3	4,688.07	3	4,330.07	3	3,971.23	3	3,612.38	3	3,253.53	3	2,894.64
1/4		1/4		1/4		1/4	5,036.55	1/4	4,680.61	1/4	4,322.60	1/4	3,963.75	1/4	3,604.90	1/4	3,246.05	1/4	2,887.16
1/2		1/2		1/2		1/2	5,029.20	1/2	4,673.16	1/2	4,315.12	1/2	3,956.27	1/2	3,597.43	1/2	3,238.58	1/2	2,879.68
3/4		3/4		3/4		3/4	5,021.85	3/4	4,665.70	3/4	4,307.65	3/4	3,948.80	3/4	3,589.95	3/4	3,231.10	3/4	2,872.20
4		4		4		4	5,014.49	4	4,658.25	4	4,300.17	4	3,941.32	4	3,582.47	4	3,223.63	4	2,864.72
1/4		1/4		1/4		1/4	5,007.14	1/4	4,650.79	1/4	4,292.69	1/4	3,933.85	1/4	3,575.00	1/4	3,216.15	1/4	2,857.24
1/2		1/2		1/2		1/2	4,999.72	1/2	4,643.34	1/2	4,285.22	1/2	3,926.37	1/2	3,567.52	1/2	3,208.67	1/2	2,849.76
3/4		3/4		3/4		3/4	4,992.31	3/4	4,635.89	3/4	4,277.74	3/4	3,918.89	3/4	3,560.05	3/4	3,201.20	3/4	2,842.28
5		5		5		5	4,984.89	5	4,628.43	5	4,270.27	5	3,911.42	5	3,552.57	5	3,193.72	5	2,834.80
1/4		1/4		1/4		1/4	4,977.47	1/4	4,620.98	1/4	4,262.79	1/4	3,903.94	1/4	3,545.09	1/4	3,186.25	1/4	2,827.32
1/2		1/2		1/2		1/2	4,970.05	1/2	4,613.52	1/2	4,255.31	1/2	3,896.47	1/2	3,537.62	1/2	3,178.77	1/2	2,819.84
3/4		3/4		3/4		3/4	4,962.63	3/4	4,606.07	3/4	4,247.84	3/4	3,888.99	3/4	3,530.14	3/4	3,171.29	3/4	2,812.36
6		6		6		6	4,955.21	6	4,598.61	6	4,240.36	6	3,881.51	6	3,522.67	6	3,163.82	6	2,804.88
1/4		1/4		1/4		1/4	4,947.79	1/4	4,591.16	1/4	4,232.89	1/4	3,874.04	1/4	3,515.19	1/4	3,156.34	1/4	2,797.40
1/2		1/2		1/2		1/2	4,940.38	1/2	4,583.71	1/2	4,225.41	1/2	3,866.56	1/2	3,507.71	1/2	3,148.87	1/2	2,789.92
3/4		3/4		3/4		3/4	4,932.96	3/4	4,576.25	3/4	4,217.93	3/4	3,859.09	3/4	3,500.24	3/4	3,141.39	3/4	2,782.44
7		7		7		7	4,925.54	7	4,568.80	7	4,210.46	7	3,851.61	7	3,492.76	7	3,133.91	7	2,774.96
1/4		1/4		1/4		1/4	4,918.12	1/4	4,561.34	1/4	4,202.98	1/4	3,844.13	1/4	3,485.29	1/4	3,126.44	1/4	2,767.48
1/2		1/2		1/2		1/2	4,910.70	1/2	4,553.89	1/2	4,195.51	1/2	3,836.66	1/2	3,477.81	1/2	3,118.96	1/2	2,760.00
3/4		3/4		3/4		3/4	4,903.29	3/4	4,546.43	3/4	4,188.03	3/4	3,829.18	3/4	3,470.33	3/4	3,111.49	3/4	2,752.52
8		8		8		8	4,895.87	8	4,538.98	8	4,180.55	8	3,821.71	8	3,462.86	8	3,104.01	8	2,745.04
1/4		1/4		1/4		1/4	4,888.45	1/4	4,531.53	1/4	4,173.08	1/4	3,814.23	1/4	3,455.38	1/4	3,096.53	1/4	2,737.56
1/2		1/2		1/2		1/2	4,881.04	1/2	4,524.07	1/2	4,165.60	1/2	3,806.75	1/2	3,447.91	1/2	3,089.06	1/2	2,730.08
3/4		3/4		3/4		3/4	4,873.63	3/4	4,516.62	3/4	4,158.13	3/4	3,799.28	3/4	3,440.43	3/4	3,081.58	3/4	2,722.60
9		9		9		9	4,866.21	9	4,509.16	9	4,150.65	9	3,791.80	9	3,432.95	9	3,074.11	9	2,715.12
1/4		1/4		1/4		1/4	4,858.80	1/4	4,501.71	1/4	4,143.17	1/4	3,784.33	1/4	3,425.48	1/4	3,066.63	1/4	2,707.64
1/2		1/2		1/2		1/2	4,851.38	1/2	4,494.25	1/2	4,135.70	1/2	3,776.85	1/2	3,418.00	1/2	3,059.15	1/2	2,700.16
3/4		3/4		3/4		3/4	4,843.97	3/4	4,486.80	3/4	4,128.22	3/4	3,769.37	3/4	3,410.53	3/4	3,051.68	3/4	2,692.68
10		10		10		10	4,836.55	10	4,479.35	10	4,120.75	10	3,761.90	10	3,403.05	10	3,044.20	10	2,685.20
1/4		1/4		1/4		1/4	4,829.14	1/4	4,471.89	1/4	4,113.27	1/4	3,754.42	1/4	3,395.57	1/4	3,036.73	1/4	2,677.72
1/2		1/2		1/2		1/2	4,821.72	1/2	4,464.44	1/2	4,105.79	1/2	3,746.95	1/2	3,388.10	1/2	3,029.25	1/2	2,670.24
3/4		3/4		3/4		3/4	4,814.31	3/4	4,456.98	3/4	4,098.32	3/4	3,739.47	3/4	3,380.62	3/4	3,021.77	3/4	2,662.76
11		11		11		11	4,806.89	11	4,449.53	11	4,090.84	11	3,731.99	11	3,373.15	11	3,014.30	11	2,655.28
1/4		1/4		1/4		1/4	4,799.48	1/4	4,442.07	1/4	4,083.37	1/4	3,724.52	1/4	3,365.67	1/4	3,006.82	1/4	2,647.80
1/2		1/2		1/2		1/2	4,792.07	1/2	4,434.62	1/2	4,075.89	1/2	3,717.04	1/2	3,358.19	1/2	2,999.35	1/2	2,640.32
3/4		3/4		3/4		3/4	4,784.65	3/4	4,427.17	3/4	4,068.41	3/4	3,709.57	3/4	3,350.72	3/4	2,991.87	3/4	2,632.84

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 41'-00" 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 "HTCO 3149"

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	2,625.36	0	2,266.32	0	1,907.28	0	1,548.24	0	1,189.20	0	830.61	0	471.59	0	112.56	0		0	
1/4	2,617.88	1/4	2,258.84	1/4	1,899.80	1/4	1,540.76	1/4	1,181.72	1/4	823.14	1/4	464.11	1/4	105.08	1/4		1/4	
1/2	2,610.40	1/2	2,251.36	1/2	1,892.32	1/2	1,533.28	1/2	1,174.24	1/2	815.66	1/2	456.63	1/2	97.60	1/2		1/2	
3/4	2,602.92	3/4	2,243.88	3/4	1,884.84	3/4	1,525.80	3/4	1,166.76	3/4	808.18	3/4	449.15	3/4	90.12	3/4		3/4	
1	2,595.44	1	2,236.40	1	1,877.36	1	1,518.32	1	1,159.28	1	800.70	1	441.67	1	82.64	1		1	
1/4	2,587.96	1/4	2,228.92	1/4	1,869.88	1/4	1,510.84	1/4	1,151.80	1/4	793.22	1/4	434.19	1/4	75.16	1/4		1/4	
1/2	2,580.48	1/2	2,221.44	1/2	1,862.40	1/2	1,503.36	1/2	1,144.32	1/2	785.74	1/2	426.71	1/2	68.15	1/2		1/2	
3/4	2,573.00	3/4	2,213.96	3/4	1,854.92	3/4	1,495.88	3/4	1,136.84	3/4	778.26	3/4	419.23	3/4	61.14	3/4		3/4	
2	2,565.52	2	2,206.48	2	1,847.44	2	1,488.40	2	1,129.36	2	770.78	2	411.75	2	54.13	2		2	
1/4	2,558.04	1/4	2,199.00	1/4	1,839.96	1/4	1,480.92	1/4	1,121.89	1/4	763.30	1/4	404.27	1/4	47.11	1/4		1/4	
1/2	2,550.56	1/2	2,191.52	1/2	1,832.48	1/2	1,473.44	1/2	1,114.41	1/2	755.82	1/2	396.79	1/2	41.50	1/2		1/2	
3/4	2,543.08	3/4	2,184.04	3/4	1,825.00	3/4	1,465.96	3/4	1,106.94	3/4	748.34	3/4	389.31	3/4	35.89	3/4		3/4	
3	2,535.60	3	2,176.56	3	1,817.52	3	1,458.48	3	1,099.46	3	740.86	3	381.83	3	30.28	3		3	
1/4	2,528.12	1/4	2,169.08	1/4	1,810.04	1/4	1,451.00	1/4	1,091.99	1/4	733.38	1/4	374.35	1/4	24.67	1/4		1/4	
1/2	2,520.64	1/2	2,161.60	1/2	1,802.56	1/2	1,443.52	1/2	1,084.52	1/2	725.90	1/2	366.87	1/2	20.94	1/2		1/2	
3/4	2,513.16	3/4	2,154.12	3/4	1,795.08	3/4	1,436.04	3/4	1,077.05	3/4	718.42	3/4	359.39	3/4		3/4		3/4	
4	2,505.68	4	2,146.64	4	1,787.60	4	1,428.56	4	1,069.58	4	710.95	4	351.91	4		4		4	
1/4	2,498.20	1/4	2,139.16	1/4	1,780.12	1/4	1,421.08	1/4	1,062.11	1/4	703.47	1/4	344.43	1/4		1/4		1/4	
1/2	2,490.72	1/2	2,131.68	1/2	1,772.64	1/2	1,413.60	1/2	1,054.64	1/2	695.99	1/2	336.96	1/2		1/2		1/2	
3/4	2,483.24	3/4	2,124.20	3/4	1,765.16	3/4	1,406.12	3/4	1,047.17	3/4	688.51	3/4	329.48	3/4		3/4		3/4	
5	2,475.76	5	2,116.72	5	1,757.68	5	1,398.64	5	1,039.71	5	681.03	5	322.00	5		5		5	
1/4	2,468.28	1/4	2,109.24	1/4	1,750.20	1/4	1,391.16	1/4	1,032.24	1/4	673.55	1/4	314.52	1/4		1/4		1/4	
1/2	2,460.80	1/2	2,101.76	1/2	1,742.72	1/2	1,383.68	1/2	1,024.77	1/2	666.07	1/2	307.04	1/2		1/2		1/2	
3/4	2,453.32	3/4	2,094.28	3/4	1,735.24	3/4	1,376.20	3/4	1,017.30	3/4	658.59	3/4	299.56	3/4		3/4		3/4	
6	2,445.84	6	2,086.80	6	1,727.76	6	1,368.72	6	1,009.84	6	651.11	6	292.08	6		6		6	
1/4	2,438.36	1/4	2,079.32	1/4	1,720.28	1/4	1,361.24	1/4	1,002.37	1/4	643.63	1/4	284.60	1/4		1/4		1/4	
1/2	2,430.88	1/2	2,071.84	1/2	1,712.80	1/2	1,353.76	1/2	994.90	1/2	636.15	1/2	277.12	1/2		1/2		1/2	
3/4	2,423.40	3/4	2,064.36	3/4	1,705.32	3/4	1,346.28	3/4	987.44	3/4	628.67	3/4	269.64	3/4		3/4		3/4	
7	2,415.92	7	2,056.88	7	1,697.84	7	1,338.80	7	979.97	7	621.19	7	262.16	7		7		7	
1/4	2,408.44	1/4	2,049.40	1/4	1,690.36	1/4	1,331.32	1/4	972.50	1/4	613.71	1/4	254.68	1/4		1/4		1/4	
1/2	2,400.96	1/2	2,041.92	1/2	1,682.88	1/2	1,323.84	1/2	965.04	1/2	606.23	1/2	247.20	1/2		1/2		1/2	
3/4	2,393.48	3/4	2,034.44	3/4	1,675.40	3/4	1,316.36	3/4	957.57	3/4	598.75	3/4	239.72	3/4		3/4		3/4	
8	2,386.00	8	2,026.96	8	1,667.92	8	1,308.88	8	950.10	8	591.27	8	232.24	8		8		8	
1/4	2,378.52	1/4	2,019.48	1/4	1,660.44	1/4	1,301.40	1/4	942.63	1/4	583.79	1/4	224.76	1/4		1/4		1/4	
1/2	2,371.04	1/2	2,012.00	1/2	1,652.96	1/2	1,293.92	1/2	935.17	1/2	576.31	1/2	217.28	1/2		1/2		1/2	
3/4	2,363.56	3/4	2,004.52	3/4	1,645.48	3/4	1,286.44	3/4	927.70	3/4	568.83	3/4	209.80	3/4		3/4		3/4	
9	2,356.08	9	1,997.04	9	1,638.00	9	1,278.96	9	920.23	9	561.35	9	202.32	9		9		9	
1/4	2,348.60	1/4	1,989.56	1/4	1,630.52	1/4	1,271.48	1/4	912.77	1/4	553.87	1/4	194.84	1/4		1/4		1/4	
1/2	2,341.12	1/2	1,982.08	1/2	1,623.04	1/2	1,264.00	1/2	905.30	1/2	546.39	1/2	187.36	1/2		1/2		1/2	
3/4	2,333.64	3/4	1,974.60	3/4	1,615.56	3/4	1,256.52	3/4	897.83	3/4	538.91	3/4	179.88	3/4		3/4		3/4	
10	2,326.16	10	1,967.12	10	1,608.08	10	1,249.04	10	890.37	10	531.43	10	172.40	10		10		10	
1/4	2,318.68	1/4	1,959.64	1/4	1,600.60	1/4	1,241.56	1/4	882.90	1/4	523.95	1/4	164.92	1/4		1/4		1/4	
1/2	2,311.20	1/2	1,952.16	1/2	1,593.12	1/2	1,234.08	1/2	875.43	1/2	516.47	1/2	157.44	1/2		1/2		1/2	
3/4	2,303.72	3/4	1,944.68	3/4	1,585.64	3/4	1,226.60	3/4	867.96	3/4	508.99	3/4	149.96	3/4		3/4		3/4	
11	2,296.24	11	1,937.20	11	1,578.16	11	1,219.12	11	860.50	11	501.51	11	142.48	11		11		11	
1/4	2,288.76	1/4	1,929.72	1/4	1,570.68	1/4	1,211.64	1/4	853.03	1/4	494.03	1/4	135.00	1/4		1/4		1/4	
1/2	2,281.28	1/2	1,922.24	1/2	1,563.20	1/2	1,204.16	1/2	845.56	1/2	486.55	1/2	127.52	1/2		1/2		1/2	
3/4	2,273.80	3/4	1,914.76	3/4	1,555.72	3/4	1,196.68	3/4	838.09	3/4	479.07	3/4	120.04	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/27/2015 CL
RECALCULATED: 10/15/2020 CL
REPRINTED: 10/16/2020 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2020

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



BARGE "HTCO 3149"

3 PORT ULLAGE TABLE

HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.							
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0						
1/4		1/4		1/4		1/4		1/4	4,366.16	1/4		1/4	4,125.23	1/4		1/4	3,631.45	1/4		1/4	3,298.08	1/4		1/4	2,942.12
1/2		1/2		1/2		1/2		1/2	4,361.05	1/2		1/2	4,114.97	1/2		1/2	3,621.16	1/2		1/2	3,290.69	1/2		1/2	2,934.70
3/4		3/4		3/4		3/4		3/4	4,355.95	3/4		3/4	4,109.83	3/4		3/4	3,616.02	3/4		3/4	3,283.29	3/4		3/4	2,927.28
1		1		1		1		1	4,584.13	1		1	4,350.85	1		1	3,610.87	1		1	3,275.89	1		1	2,919.85
1/4		1/4		1/4		1/4		1/4	4,581.68	1/4		1/4	4,345.75	1/4		1/4	3,605.73	1/4		1/4	3,268.49	1/4		1/4	2,912.43
1/2		1/2		1/2		1/2		1/2	4,578.17	1/2		1/2	4,340.63	1/2		1/2	3,600.59	1/2		1/2	3,261.08	1/2		1/2	2,905.01
3/4		3/4		3/4		3/4		3/4	4,574.66	3/4		3/4	4,335.52	3/4		3/4	3,595.44	3/4		3/4	3,253.68	3/4		3/4	2,897.59
2		2		2		2		2	4,330.40	2		2	4,104.69	2		2	3,590.30	2		2	3,246.27	2		2	2,890.17
1/4		1/4		1/4		1/4		1/4	4,567.65	1/4		1/4	4,325.28	1/4		1/4	3,585.15	1/4		1/4	3,238.86	1/4		1/4	2,882.75
1/2		1/2		1/2		1/2		1/2	4,563.14	1/2		1/2	4,320.15	1/2		1/2	3,579.44	1/2		1/2	3,231.44	1/2		1/2	2,875.33
3/4		3/4		3/4		3/4		3/4	4,558.63	3/4		3/4	4,315.02	3/4		3/4	3,573.72	3/4		3/4	3,224.02	3/4		3/4	2,867.91
3		3		3		3		3	4,554.13	3		3	4,309.89	3		3	3,568.00	3		3	3,216.60	3		3	2,860.48
1/4		1/4		1/4		1/4		1/4	4,549.62	1/4		1/4	4,304.76	1/4		1/4	3,562.28	1/4		1/4	3,209.19	1/4		1/4	2,853.06
1/2		1/2		1/2		1/2		1/2	4,544.58	1/2		1/2	4,299.63	1/2		1/2	3,555.43	1/2		1/2	3,201.77	1/2		1/2	2,845.64
3/4		3/4		3/4		3/4		3/4	4,539.54	3/4		3/4	4,294.51	3/4		3/4	3,548.58	3/4		3/4	3,194.35	3/4		3/4	2,838.22
4		4		4		4		4	4,534.50	4		4	4,289.38	4		4	3,541.73	4		4	3,186.93	4		4	2,830.80
1/4		1/4		1/4		1/4		1/4	4,529.46	1/4		1/4	4,284.25	1/4		1/4	3,534.88	1/4		1/4	3,179.51	1/4		1/4	2,823.38
1/2		1/2		1/2		1/2		1/2	4,524.36	1/2		1/2	4,279.12	1/2		1/2	3,527.47	1/2		1/2	3,172.09	1/2		1/2	2,815.96
3/4		3/4		3/4		3/4		3/4	4,519.26	3/4		3/4	4,273.99	3/4		3/4	3,520.06	3/4		3/4	3,164.68	3/4		3/4	2,808.54
5		5		5		5		5	4,514.15	5		5	4,268.86	5		5	3,515.48	5		5	3,157.26	5		5	2,801.11
1/4		1/4		1/4		1/4		1/4	4,509.05	1/4		1/4	4,263.73	1/4		1/4	3,508.33	1/4		1/4	3,149.84	1/4		1/4	2,793.69
1/2		1/2		1/2		1/2		1/2	4,503.94	1/2		1/2	4,258.60	1/2		1/2	3,501.19	1/2		1/2	3,142.42	1/2		1/2	2,786.27
3/4		3/4		3/4		3/4		3/4	4,498.84	3/4		3/4	4,253.47	3/4		3/4	3,494.04	3/4		3/4	3,135.00	3/4		3/4	2,778.85
6		6		6		6		6	4,493.73	6		6	4,248.34	6		6	3,487.05	6		6	3,127.58	6		6	2,771.43
1/4		1/4		1/4		1/4		1/4	4,488.63	1/4		1/4	4,243.21	1/4		1/4	3,480.26	1/4		1/4	3,120.16	1/4		1/4	2,764.01
1/2		1/2		1/2		1/2		1/2	4,483.52	1/2		1/2	4,238.08	1/2		1/2	3,473.11	1/2		1/2	3,112.75	1/2		1/2	2,756.59
3/4		3/4		3/4		3/4		3/4	4,478.42	3/4		3/4	4,232.95	3/4		3/4	3,466.22	3/4		3/4	3,105.33	3/4		3/4	2,749.17
7		7		7		7		7	4,473.31	7		7	4,227.82	7		7	3,459.33	7		7	3,097.91	7		7	2,741.75
1/4		1/4		1/4		1/4		1/4	4,468.21	1/4		1/4	4,222.69	1/4		1/4	3,452.44	1/4		1/4	3,090.49	1/4		1/4	2,734.32
1/2		1/2		1/2		1/2		1/2	4,463.10	1/2		1/2	4,217.56	1/2		1/2	3,445.55	1/2		1/2	3,083.07	1/2		1/2	2,726.90
3/4		3/4		3/4		3/4		3/4	4,458.00	3/4		3/4	4,212.43	3/4		3/4	3,438.66	3/4		3/4	3,075.65	3/4		3/4	2,719.48
8		8		8		8		8	4,452.90	8		8	4,207.30	8		8	3,431.75	8		8	3,068.23	8		8	2,712.06
1/4		1/4		1/4		1/4		1/4	4,447.79	1/4		1/4	4,202.17	1/4		1/4	3,424.86	1/4		1/4	3,060.82	1/4		1/4	2,704.64
1/2		1/2		1/2		1/2		1/2	4,442.69	1/2		1/2	4,197.04	1/2		1/2	3,418.01	1/2		1/2	3,053.40	1/2		1/2	2,697.22
3/4		3/4		3/4		3/4		3/4	4,437.59	3/4		3/4	4,191.92	3/4		3/4	3,411.16	3/4		3/4	3,045.98	3/4		3/4	2,689.80
9		9		9		9		9	4,432.49	9		9	4,186.79	9		9	3,404.31	9		9	3,038.56	9		9	2,682.38
1/4		1/4		1/4		1/4		1/4	4,427.38	1/4		1/4	4,181.66	1/4		1/4	3,397.46	1/4		1/4	3,031.14	1/4		1/4	2,674.95
1/2		1/2		1/2		1/2		1/2	4,422.28	1/2		1/2	4,176.53	1/2		1/2	3,390.61	1/2		1/2	3,023.72	1/2		1/2	2,667.53
3/4		3/4		3/4		3/4		3/4	4,417.18	3/4		3/4	4,171.40	3/4		3/4	3,383.76	3/4		3/4	3,016.31	3/4		3/4	2,660.11
10		10		10		10		10	4,412.08	10		10	4,166.27	10		10	3,376.91	10		10	3,008.89	10		10	2,652.69
1/4		1/4		1/4		1/4		1/4	4,406.97	1/4		1/4	4,161.14	1/4		1/4	3,370.06	1/4		1/4	3,001.47	1/4		1/4	2,645.27
1/2		1/2		1/2		1/2		1/2	4,401.87	1/2		1/2	4,156.01	1/2		1/2	3,363.21	1/2		1/2	2,994.05	1/2		1/2	2,637.85
3/4		3/4		3/4		3/4		3/4	4,396.77	3/4		3/4	4,150.88	3/4		3/4	3,356.36	3/4		3/4	2,986.63	3/4		3/4	2,630.43
11		11		11		11		11	4,391.67	11		11	4,145.75	11		11	3,349.51	11		11	2,979.21	11		11	2,623.01
1/4		1/4		1/4		1/4		1/4	4,386.57	1/4		1/4	4,140.62	1/4		1/4	3,342.66	1/4		1/4	2,972.36	1/4		1/4	2,615.58
1/2		1/2		1/2		1/2		1/2	4,381.46	1/2		1/2	4,135.49	1/2		1/2	3,335.81	1/2		1/2	2,965.51	1/2		1/2	2,608.16
3/4		3/4		3/4		3/4		3/4	4,376.36	3/4		3/4	4,130.36	3/4		3/4	3,329.06	3/4		3/4	2,958.66	3/4		3/4	2,600.74

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" DEVICE.
GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 41'-00" 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 "HTCO 3149"

3 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,593.31	0	2,238.05	0	1,884.40	0	1,527.86	0	1,171.61	0	825.41	0	468.76	0	112.01	0		0	
1/4	2,585.89	1/4	2,230.67	1/4	1,877.00	1/4	1,520.43	1/4	1,164.28	1/4	818.09	1/4	461.33	1/4	104.57	1/4		1/4	
1/2	2,578.46	1/2	2,223.31	1/2	1,869.57	1/2	1,513.00	1/2	1,157.07	1/2	810.66	1/2	453.90	1/2	97.13	1/2		1/2	
3/4	2,571.03	3/4	2,215.94	3/4	1,862.14	3/4	1,505.57	3/4	1,149.85	3/4	803.23	3/4	446.47	3/4	89.69	3/4		3/4	
1	2,563.60	1	2,208.58	1	1,854.71	1	1,498.15	1	1,142.63	1	795.80	1	439.03	1	82.25	1		1	
1/4	2,556.17	1/4	2,201.21	1/4	1,847.29	1/4	1,490.72	1/4	1,135.41	1/4	788.36	1/4	431.60	1/4	74.81	1/4		1/4	
1/2	2,548.74	1/2	2,193.85	1/2	1,839.86	1/2	1,483.29	1/2	1,128.20	1/2	780.93	1/2	424.17	1/2	67.83	1/2		1/2	
3/4	2,541.32	3/4	2,186.48	3/4	1,832.43	3/4	1,475.86	3/4	1,120.99	3/4	773.50	3/4	416.74	3/4	60.85	3/4		3/4	
2	2,533.89	2	2,179.11	2	1,825.00	2	1,468.43	2	1,113.77	2	766.06	2	409.31	2	53.87	2		2	
1/4	2,526.46	1/4	2,171.75	1/4	1,817.57	1/4	1,461.00	1/4	1,106.56	1/4	758.63	1/4	401.88	1/4	46.89	1/4		1/4	
1/2	2,519.03	1/2	2,164.38	1/2	1,810.14	1/2	1,453.58	1/2	1,099.35	1/2	751.20	1/2	394.45	1/2	41.31	1/2		1/2	
3/4	2,511.60	3/4	2,157.02	3/4	1,802.71	3/4	1,446.15	3/4	1,092.15	3/4	743.77	3/4	387.01	3/4	35.72	3/4		3/4	
3	2,504.17	3	2,149.65	3	1,795.29	3	1,438.72	3	1,084.94	3	736.33	3	379.58	3	30.14	3		3	
1/4	2,496.74	1/4	2,142.29	1/4	1,787.86	1/4	1,431.29	1/4	1,077.74	1/4	728.90	1/4	372.15	1/4	24.56	1/4		1/4	
1/2	2,489.34	1/2	2,134.92	1/2	1,780.43	1/2	1,423.86	1/2	1,070.53	1/2	721.47	1/2	364.72	1/2	20.84	1/2		1/2	
3/4	2,481.93	3/4	2,127.56	3/4	1,773.00	3/4	1,416.43	3/4	1,063.33	3/4	714.04	3/4	357.29	3/4		3/4		3/4	
4	2,474.52	4	2,120.19	4	1,765.57	4	1,409.00	4	1,056.13	4	706.60	4	349.86	4		4		4	
1/4	2,467.11	1/4	2,112.82	1/4	1,758.14	1/4	1,401.58	1/4	1,048.92	1/4	699.17	1/4	342.43	1/4		1/4		1/4	
1/2	2,459.72	1/2	2,105.46	1/2	1,750.72	1/2	1,394.15	1/2	1,041.73	1/2	691.74	1/2	334.99	1/2		1/2		1/2	
3/4	2,452.33	3/4	2,098.09	3/4	1,743.29	3/4	1,386.72	3/4	1,034.53	3/4	684.30	3/4	327.56	3/4		3/4		3/4	
5	2,444.94	5	2,090.73	5	1,735.86	5	1,379.29	5	1,027.33	5	676.87	5	320.13	5	5	5		5	
1/4	2,437.55	1/4	2,083.36	1/4	1,728.43	1/4	1,371.86	1/4	1,020.13	1/4	669.44	1/4	312.70	1/4		1/4		1/4	
1/2	2,430.16	1/2	2,076.00	1/2	1,721.00	1/2	1,364.43	1/2	1,012.93	1/2	662.01	1/2	305.27	1/2		1/2		1/2	
3/4	2,422.77	3/4	2,068.63	3/4	1,713.57	3/4	1,357.00	3/4	1,005.73	3/4	654.57	3/4	297.84	3/4		3/4		3/4	
6	2,415.38	6	2,061.26	6	1,706.14	6	1,349.58	6	998.53	6	647.14	6	290.41	6	6	6		6	
1/4	2,407.99	1/4	2,053.90	1/4	1,698.72	1/4	1,342.15	1/4	991.33	1/4	639.71	1/4	282.97	1/4		1/4		1/4	
1/2	2,400.60	1/2	2,046.53	1/2	1,691.29	1/2	1,334.72	1/2	984.13	1/2	632.28	1/2	275.54	1/2		1/2		1/2	
3/4	2,393.21	3/4	2,039.17	3/4	1,683.86	3/4	1,327.29	3/4	976.94	3/4	624.84	3/4	268.11	3/4		3/4		3/4	
7	2,385.82	7	2,031.80	7	1,676.43	7	1,319.86	7	969.74	7	617.41	7	260.68	7	7	7		7	
1/4	2,378.43	1/4	2,024.44	1/4	1,669.00	1/4	1,312.43	1/4	962.54	1/4	609.98	1/4	253.25	1/4		1/4		1/4	
1/2	2,371.04	1/2	2,017.07	1/2	1,661.57	1/2	1,305.01	1/2	955.34	1/2	602.55	1/2	245.82	1/2		1/2		1/2	
3/4	2,363.65	3/4	2,009.71	3/4	1,654.14	3/4	1,297.58	3/4	948.14	3/4	595.11	3/4	238.39	3/4		3/4		3/4	
8	2,356.26	8	2,002.34	8	1,646.72	8	1,290.15	8	940.94	8	587.68	8	230.95	8	8	8		8	
1/4	2,348.87	1/4	1,994.97	1/4	1,639.29	1/4	1,282.72	1/4	933.74	1/4	580.25	1/4	223.52	1/4		1/4		1/4	
1/2	2,341.48	1/2	1,987.61	1/2	1,631.86	1/2	1,275.29	1/2	926.54	1/2	572.81	1/2	216.09	1/2		1/2		1/2	
3/4	2,334.09	3/4	1,980.24	3/4	1,624.43	3/4	1,267.86	3/4	919.34	3/4	565.38	3/4	208.66	3/4		3/4		3/4	
9	2,326.70	9	1,972.88	9	1,617.00	9	1,260.43	9	912.15	9	557.95	9	201.22	9	9	9		9	
1/4	2,319.31	1/4	1,965.51	1/4	1,609.57	1/4	1,253.01	1/4	904.95	1/4	550.52	1/4	193.79	1/4		1/4		1/4	
1/2	2,311.92	1/2	1,958.15	1/2	1,602.15	1/2	1,245.58	1/2	897.75	1/2	543.08	1/2	186.36	1/2		1/2		1/2	
3/4	2,304.53	3/4	1,950.78	3/4	1,594.72	3/4	1,238.15	3/4	890.55	3/4	535.65	3/4	178.92	3/4		3/4		3/4	
10	2,297.14	10	1,943.42	10	1,587.29	10	1,230.72	10	883.35	10	528.22	10	171.49	10	10	10		10	
1/4	2,289.75	1/4	1,936.05	1/4	1,579.86	1/4	1,223.29	1/4	876.15	1/4	520.79	1/4	164.06	1/4		1/4		1/4	
1/2	2,282.36	1/2	1,928.68	1/2	1,572.43	1/2	1,215.86	1/2	868.95	1/2	513.35	1/2	156.62	1/2		1/2		1/2	
3/4	2,274.97	3/4	1,921.32	3/4	1,565.00	3/4	1,208.43	3/4	861.75	3/4	505.92	3/4	149.19	3/4		3/4		3/4	
11	2,267.58	11	1,913.95	11	1,557.57	11	1,201.01	11	854.55	11	498.49	11	141.76	11	11	11		11	
1/4	2,260.19	1/4	1,906.59	1/4	1,550.15	1/4	1,193.58	1/4	847.36	1/4	491.05	1/4	134.32	1/4		1/4		1/4	
1/2	2,252.81	1/2	1,899.19	1/2	1,542.72	1/2	1,186.25	1/2	840.04	1/2	483.62	1/2	126.89	1/2		1/2		1/2	
3/4	2,245.43	3/4	1,891.79	3/4	1,535.29	3/4	1,178.93	3/4	832.72	3/4	476.19	3/4	119.45	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/27/2015 CL
RECALCULATED: 10/15/2020 CL
REPRINTED: 10/16/2020 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2020

PRECISION MEASUREMENT
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BARGE "HTCO 3149"

3 STBD 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	4,391.14	0	4,144.84	0	3,897.70	0	3,650.55	0	3,321.61	0	2,964.60
1/4		1/4		1/4		1/4		1/4	4,386.03	1/4	4,139.69	1/4	3,892.55	1/4	3,645.40	1/4	3,314.19	1/4	2,957.15
1/2		1/2		1/2		1/2		1/2	4,380.93	1/2	4,134.55	1/2	3,887.40	1/2	3,640.25	1/2	3,306.77	1/2	2,949.71
3/4		3/4		3/4		3/4		3/4	4,609.34	3/4	4,375.82	3/4	4,129.41	3/4	3,882.25	3/4	3,635.10	3/4	3,299.35
1		1		1		1		1	4,606.89	1	4,370.71	1	4,124.26	1	3,877.11	1	3,629.95	1	3,293.83
1/4		1/4		1/4		1/4		1/4	4,603.38	1/4	4,365.59	1/4	4,119.11	1/4	3,871.96	1/4	3,624.80	1/4	3,287.38
1/2		1/2		1/2		1/2		1/2	4,599.86	1/2	4,360.47	1/2	4,113.96	1/2	3,866.81	1/2	3,619.65	1/2	3,277.07
3/4		3/4		3/4		3/4		3/4	4,596.35	3/4	4,355.35	3/4	4,108.82	3/4	3,861.66	3/4	3,614.50	3/4	3,269.64
2		2		2		2		2	4,592.84	2	4,350.23	2	4,103.67	2	3,856.51	2	3,609.35	2	3,262.21
1/4		1/4		1/4		1/4		1/4	4,588.32	1/4	4,345.09	1/4	4,098.52	1/4	3,851.36	1/4	3,603.63	1/4	3,254.77
1/2		1/2		1/2		1/2		1/2	4,583.81	1/2	4,339.96	1/2	4,093.37	1/2	3,846.21	1/2	3,597.91	1/2	3,247.33
3/4		3/4		3/4		3/4		3/4	4,579.30	3/4	4,334.82	3/4	4,088.22	3/4	3,841.06	3/4	3,592.18	3/4	3,239.89
3		3		3		3		3	4,574.79	3	4,329.69	3	4,083.07	3	3,835.91	3	3,586.46	3	3,232.45
1/4		1/4		1/4		1/4		1/4	4,569.75	1/4	4,324.55	1/4	4,077.92	1/4	3,830.76	1/4	3,579.60	1/4	3,225.01
1/2		1/2		1/2		1/2		1/2	4,564.70	1/2	4,319.42	1/2	4,072.77	1/2	3,825.61	1/2	3,572.74	1/2	3,217.57
3/4		3/4		3/4		3/4		3/4	4,559.66	3/4	4,314.28	3/4	4,067.62	3/4	3,820.47	3/4	3,565.89	3/4	3,210.13
4		4		4		4		4	4,554.61	4	4,309.15	4	4,062.47	4	3,815.32	4	3,559.03	4	3,202.69
1/4		1/4		1/4		1/4		1/4	4,549.50	1/4	4,304.01	1/4	4,057.32	1/4	3,810.17	1/4	3,551.61	1/4	3,195.25
1/2		1/2		1/2		1/2		1/2	4,544.39	1/2	4,298.88	1/2	4,052.17	1/2	3,805.02	1/2	3,544.19	1/2	3,187.81
3/4		3/4		3/4		3/4		3/4	4,539.28	3/4	4,293.74	3/4	4,047.03	3/4	3,799.87	3/4	3,536.77	3/4	3,180.37
5		5		5		5		5	4,534.17	5	4,288.61	5	4,041.88	5	3,794.72	5	3,529.35	5	3,172.93
1/4		1/4		1/4		1/4		1/4	4,529.06	1/4	4,283.47	1/4	4,036.73	1/4	3,789.57	1/4	3,521.93	1/4	3,165.49
1/2		1/2		1/2		1/2		1/2	4,523.95	1/2	4,278.34	1/2	4,031.58	1/2	3,784.42	1/2	3,514.51	1/2	3,158.05
3/4		3/4		3/4		3/4		3/4	4,518.84	3/4	4,273.21	3/4	4,026.43	3/4	3,779.27	3/4	3,507.09	3/4	3,150.61
6		6		6		6		6	4,513.73	6	4,268.07	6	4,021.28	6	3,774.12	6	3,499.67	6	3,143.17
1/4		1/4		1/4		1/4		1/4	4,508.62	1/4	4,262.94	1/4	4,016.13	1/4	3,768.97	1/4	3,492.25	1/4	3,135.72
1/2		1/2		1/2		1/2		1/2	4,503.51	1/2	4,257.80	1/2	4,010.98	1/2	3,763.83	1/2	3,484.83	1/2	3,128.28
3/4		3/4		3/4		3/4		3/4	4,498.40	3/4	4,252.67	3/4	4,005.83	3/4	3,758.68	3/4	3,477.41	3/4	3,120.84
7		7		7		7		7	4,493.29	7	4,247.53	7	4,000.68	7	3,753.53	7	3,470.00	7	3,113.40
1/4		1/4		1/4		1/4		1/4	4,488.18	1/4	4,242.40	1/4	3,995.53	1/4	3,748.38	1/4	3,462.58	1/4	3,105.96
1/2		1/2		1/2		1/2		1/2	4,483.08	1/2	4,237.26	1/2	3,990.39	1/2	3,743.23	1/2	3,455.16	1/2	3,098.52
3/4		3/4		3/4		3/4		3/4	4,477.97	3/4	4,232.13	3/4	3,985.24	3/4	3,738.08	3/4	3,447.74	3/4	3,091.08
8		8		8		8		8	4,472.86	8	4,226.99	8	3,980.09	8	3,732.93	8	3,440.32	8	3,083.64
1/4		1/4		1/4		1/4		1/4	4,467.75	1/4	4,221.86	1/4	3,974.94	1/4	3,727.78	1/4	3,432.90	1/4	3,076.20
1/2		1/2		1/2		1/2		1/2	4,462.64	1/2	4,216.72	1/2	3,969.79	1/2	3,722.63	1/2	3,425.48	1/2	3,068.76
3/4		3/4		3/4		3/4		3/4	4,457.54	3/4	4,211.59	3/4	3,964.64	3/4	3,717.48	3/4	3,418.06	3/4	3,061.32
9		9		9		9		9	4,452.43	9	4,206.45	9	3,959.49	9	3,712.33	9	3,410.64	9	3,053.88
1/4		1/4		1/4		1/4		1/4	4,447.32	1/4	4,201.32	1/4	3,954.34	1/4	3,707.19	1/4	3,403.22	1/4	3,046.44
1/2		1/2		1/2		1/2		1/2	4,442.21	1/2	4,196.18	1/2	3,949.19	1/2	3,702.04	1/2	3,395.80	1/2	3,039.00
3/4		3/4		3/4		3/4		3/4	4,437.11	3/4	4,191.05	3/4	3,944.04	3/4	3,696.89	3/4	3,388.38	3/4	3,031.56
10		10		10		10		10	4,432.00	10	4,185.92	10	3,938.89	10	3,691.74	10	3,380.96	10	3,024.12
1/4		1/4		1/4		1/4		1/4	4,426.89	1/4	4,180.78	1/4	3,933.75	1/4	3,686.59	1/4	3,373.54	1/4	3,016.68
1/2		1/2		1/2		1/2		1/2	4,421.78	1/2	4,175.65	1/2	3,928.60	1/2	3,681.44	1/2	3,366.12	1/2	3,009.24
3/4		3/4		3/4		3/4		3/4	4,416.68	3/4	4,170.51	3/4	3,923.45	3/4	3,676.29	3/4	3,358.70	3/4	3,001.80
11		11		11		11		11	4,411.57	11	4,165.38	11	3,918.30	11	3,671.14	11	3,351.28	11	2,994.36
1/4		1/4		1/4		1/4		1/4	4,406.46	1/4	4,160.24	1/4	3,913.15	1/4	3,665.99	1/4	3,343.86	1/4	2,986.92
1/2		1/2		1/2		1/2		1/2	4,401.36	1/2	4,155.11	1/2	3,908.00	1/2	3,660.84	1/2	3,336.44	1/2	2,979.48
3/4		3/4		3/4		3/4		3/4	4,396.25	3/4	4,149.97	3/4	3,902.85	3/4	3,655.69	3/4	3,329.02	3/4	2,972.04

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'-09" OFF CENTERLINE AND 41'-00" 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 "HTCO 3149"

3 STBD

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	2,607.32	0	2,249.72	0	1,892.11	0	1,534.51	0	1,176.90	0	819.85	0	462.26	0	104.66	0		0	
1/4	2,599.87	1/4	2,242.27	1/4	1,884.66	1/4	1,527.06	1/4	1,169.45	1/4	812.40	1/4	454.81	1/4	97.21	1/4		1/4	
1/2	2,592.42	1/2	2,234.82	1/2	1,877.21	1/2	1,519.61	1/2	1,162.00	1/2	804.95	1/2	447.36	1/2	89.76	1/2		1/2	
3/4	2,584.97	3/4	2,227.37	3/4	1,869.76	3/4	1,512.16	3/4	1,154.55	3/4	797.51	3/4	439.91	3/4	82.31	3/4		3/4	
1	2,577.52	1	2,219.92	1	1,862.31	1	1,504.71	1	1,147.10	1	790.06	1	432.46	1	74.86	1		1	
1/4	2,570.07	1/4	2,212.47	1/4	1,854.86	1/4	1,497.26	1/4	1,139.66	1/4	782.61	1/4	425.01	1/4	67.88	1/4		1/4	
1/2	2,562.62	1/2	2,205.02	1/2	1,847.41	1/2	1,489.81	1/2	1,132.21	1/2	775.16	1/2	417.56	1/2	60.90	1/2		1/2	
3/4	2,555.17	3/4	2,197.57	3/4	1,839.96	3/4	1,482.36	3/4	1,124.77	3/4	767.71	3/4	410.11	3/4	53.91	3/4		3/4	
2	2,547.72	2	2,190.12	2	1,832.51	2	1,474.91	2	1,117.32	2	760.26	2	402.66	2	46.93	2		2	
1/4	2,540.27	1/4	2,182.67	1/4	1,825.06	1/4	1,467.46	1/4	1,109.88	1/4	752.81	1/4	395.21	1/4	41.34	1/4		1/4	
1/2	2,532.82	1/2	2,175.22	1/2	1,817.61	1/2	1,460.01	1/2	1,102.44	1/2	745.36	1/2	387.76	1/2	35.75	1/2		1/2	
3/4	2,525.37	3/4	2,167.77	3/4	1,810.16	3/4	1,452.56	3/4	1,094.99	3/4	737.91	3/4	380.31	3/4	30.17	3/4		3/4	
3	2,517.92	3	2,160.32	3	1,802.71	3	1,445.11	3	1,087.55	3	730.46	3	372.86	3	24.58	3		3	
1/4	2,510.47	1/4	2,152.87	1/4	1,795.26	1/4	1,437.66	1/4	1,080.11	1/4	723.01	1/4	365.41	1/4	20.85	1/4		1/4	
1/2	2,503.02	1/2	2,145.42	1/2	1,787.81	1/2	1,430.21	1/2	1,072.67	1/2	715.56	1/2	357.96	1/2		1/2		1/2	
3/4	2,495.57	3/4	2,137.97	3/4	1,780.36	3/4	1,422.76	3/4	1,065.24	3/4	708.11	3/4	350.51	3/4		3/4		3/4	
4	2,488.12	4	2,130.52	4	1,772.91	4	1,415.31	4	1,057.80	4	700.66	4	343.06	4	4	4		4	
1/4	2,480.67	1/4	2,123.07	1/4	1,765.46	1/4	1,407.86	1/4	1,050.36	1/4	693.21	1/4	335.61	1/4		1/4		1/4	
1/2	2,473.22	1/2	2,115.62	1/2	1,758.01	1/2	1,400.41	1/2	1,042.93	1/2	685.76	1/2	328.16	1/2		1/2		1/2	
3/4	2,465.77	3/4	2,108.17	3/4	1,750.56	3/4	1,392.96	3/4	1,035.49	3/4	678.31	3/4	320.71	3/4		3/4		3/4	
5	2,458.32	5	2,100.72	5	1,743.11	5	1,385.51	5	1,028.06	5	670.86	5	313.26	5	5	5		5	
1/4	2,450.87	1/4	2,093.27	1/4	1,735.66	1/4	1,378.06	1/4	1,020.62	1/4	663.41	1/4	305.81	1/4		1/4		1/4	
1/2	2,443.42	1/2	2,085.82	1/2	1,728.21	1/2	1,370.61	1/2	1,013.19	1/2	655.96	1/2	298.36	1/2		1/2		1/2	
3/4	2,435.97	3/4	2,078.37	3/4	1,720.76	3/4	1,363.16	3/4	1,005.75	3/4	648.51	3/4	290.91	3/4		3/4		3/4	
6	2,428.52	6	2,070.92	6	1,713.31	6	1,355.71	6	998.32	6	641.06	6	283.46	6	6	6		6	
1/4	2,421.07	1/4	2,063.47	1/4	1,705.86	1/4	1,348.26	1/4	990.88	1/4	633.61	1/4	276.01	1/4		1/4		1/4	
1/2	2,413.62	1/2	2,056.02	1/2	1,698.41	1/2	1,340.81	1/2	983.45	1/2	626.16	1/2	268.56	1/2		1/2		1/2	
3/4	2,406.17	3/4	2,048.57	3/4	1,690.96	3/4	1,333.36	3/4	976.01	3/4	618.71	3/4	261.11	3/4		3/4		3/4	
7	2,398.72	7	2,041.12	7	1,683.51	7	1,325.91	7	968.58	7	611.26	7	253.66	7	7	7		7	
1/4	2,391.27	1/4	2,033.67	1/4	1,676.06	1/4	1,318.46	1/4	961.14	1/4	603.81	1/4	246.21	1/4		1/4		1/4	
1/2	2,383.82	1/2	2,026.22	1/2	1,668.61	1/2	1,311.01	1/2	953.71	1/2	596.36	1/2	238.76	1/2		1/2		1/2	
3/4	2,376.37	3/4	2,018.77	3/4	1,661.16	3/4	1,303.56	3/4	946.27	3/4	588.91	3/4	231.31	3/4		3/4		3/4	
8	2,368.92	8	2,011.32	8	1,653.71	8	1,296.11	8	938.84	8	581.46	8	223.86	8	8	8		8	
1/4	2,361.47	1/4	2,003.87	1/4	1,646.26	1/4	1,288.66	1/4	931.41	1/4	574.01	1/4	216.41	1/4		1/4		1/4	
1/2	2,354.02	1/2	1,996.42	1/2	1,638.81	1/2	1,281.21	1/2	923.97	1/2	566.56	1/2	208.96	1/2		1/2		1/2	
3/4	2,346.57	3/4	1,988.97	3/4	1,631.36	3/4	1,273.76	3/4	916.54	3/4	559.11	3/4	201.51	3/4		3/4		3/4	
9	2,339.12	9	1,981.52	9	1,623.91	9	1,266.31	9	909.10	9	551.66	9	194.06	9	9	9		9	
1/4	2,331.67	1/4	1,974.07	1/4	1,616.46	1/4	1,258.86	1/4	901.67	1/4	544.21	1/4	186.61	1/4		1/4		1/4	
1/2	2,324.22	1/2	1,966.61	1/2	1,609.01	1/2	1,251.41	1/2	894.23	1/2	536.76	1/2	179.16	1/2		1/2		1/2	
3/4	2,316.77	3/4	1,959.16	3/4	1,601.56	3/4	1,243.96	3/4	886.80	3/4	529.31	3/4	171.71	3/4		3/4		3/4	
10	2,309.32	10	1,951.71	10	1,594.11	10	1,236.51	10	879.36	10	521.86	10	164.26	10	10	10		10	
1/4	2,301.87	1/4	1,944.26	1/4	1,586.66	1/4	1,229.06	1/4	871.93	1/4	514.41	1/4	156.81	1/4		1/4		1/4	
1/2	2,294.42	1/2	1,936.81	1/2	1,579.21	1/2	1,221.60	1/2	864.49	1/2	506.96	1/2	149.36	1/2		1/2		1/2	
3/4	2,286.97	3/4	1,929.36	3/4	1,571.76	3/4	1,214.15	3/4	857.06	3/4	499.51	3/4	141.91	3/4		3/4		3/4	
11	2,279.52	11	1,921.91	11	1,564.31	11	1,206.70	11	849.62	11	492.06	11	134.46	11	11	11		11	
1/4	2,272.07	1/4	1,914.46	1/4	1,556.86	1/4	1,199.25	1/4	842.18	1/4	484.61	1/4	127.01	1/4		1/4		1/4	
1/2	2,264.62	1/2	1,907.01	1/2	1,549.41	1/2	1,191.80	1/2	834.74	1/2	477.16	1/2	119.56	1/2		1/2		1/2	
3/4	2,257.17	3/4	1,899.56	3/4	1,541.96	3/4	1,184.35	3/4	827.30	3/4	469.71	3/4	112.11	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/27/2015 CL
RECALCULATED: 10/15/2020 CL
REPRINTED: 10/16/2020 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2020

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