



BARGE "HSM 3149"

ULLAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8
1 STBD	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8
2 PORT	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-1/4
2 STBD	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-1/4
3 PORT	00-5/8	- 00-5/8	01-1/8	- 01-1/8	01-3/4	- 01-3/4	02-1/4	- 02-1/4	02-7/8	- 02-7/8	03-1/2	- 03-1/2
3 STBD	00-5/8	- 00-5/8	01-1/8	- 01-1/8	01-3/4	- 01-3/4	02-1/4	- 02-1/4	02-7/8	- 02-7/8	03-1/2	- 03-1/2

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 1'-00"
 AFT DRAFT = 5'-00"
 DIFF. = 4'-00" (DOWN BY STERN)

THE CORRECTION FOR 4'-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: 252'-09"

February 15, 2023

**PRECISION MEASUREMENT
& ANALYSIS, INC.**

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HSM 3149"

1 PORT

ULLAGE TABLE

HERMETIC

GAUGE HEIGHT 15'-08 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 US 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	4,924.43	0	4,593.07	0	4,247.56	0	3,889.07	0	3,526.31	0	3,163.55	0	2,800.79	0	2,437.96
1/4		1/4		1/4	4,917.67	1/4	4,586.00	1/4	4,240.22	1/4	3,881.51	1/4	3,518.75	1/4	3,155.99	1/4	2,793.23	1/4	2,430.40
1/2		1/2		1/2	4,910.91	1/2	4,578.93	1/2	4,232.87	1/2	3,873.95	1/2	3,511.19	1/2	3,148.43	1/2	2,785.67	1/2	2,422.84
3/4		3/4	5,217.25	3/4	4,904.15	3/4	4,571.87	3/4	4,225.53	3/4	3,866.40	3/4	3,503.64	3/4	3,140.88	3/4	2,778.12	3/4	2,415.28
1		1	5,212.13	1	4,897.37	1	4,564.78	1	4,218.17	1	3,858.84	1	3,496.08	1	3,133.32	1	2,770.56	1	2,407.72
1/4		1/4	5,207.01	1/4	4,890.58	1/4	4,557.69	1/4	4,210.80	1/4	3,851.28	1/4	3,488.52	1/4	3,125.76	1/4	2,763.00	1/4	2,400.16
1/2		1/2	5,201.89	1/2	4,883.80	1/2	4,550.60	1/2	4,203.44	1/2	3,843.72	1/2	3,480.96	1/2	3,118.20	1/2	2,755.44	1/2	2,392.60
3/4		3/4	5,196.77	3/4	4,877.02	3/4	4,543.51	3/4	4,196.07	3/4	3,836.17	3/4	3,473.41	3/4	3,110.65	3/4	2,747.89	3/4	2,385.04
2		2	5,190.43	2	4,870.21	2	4,536.40	2	4,188.68	2	3,828.61	2	3,465.85	2	3,103.09	2	2,740.33	2	2,377.48
1/4		1/4	5,184.09	1/4	4,863.40	1/4	4,529.29	1/4	4,181.30	1/4	3,821.05	1/4	3,458.29	1/4	3,095.53	1/4	2,732.77	1/4	2,369.92
1/2		1/2	5,177.76	1/2	4,856.60	1/2	4,522.18	1/2	4,173.91	1/2	3,813.49	1/2	3,450.73	1/2	3,087.97	1/2	2,725.21	1/2	2,362.36
3/4		3/4	5,171.42	3/4	4,849.79	3/4	4,515.06	3/4	4,166.52	3/4	3,805.94	3/4	3,443.18	3/4	3,080.42	3/4	2,717.66	3/4	2,354.80
3		3	5,164.22	3	4,842.96	3	4,507.93	3	4,159.11	3	3,798.38	3	3,435.62	3	3,072.86	3	2,710.10	3	2,347.23
1/4		1/4	5,157.02	1/4	4,836.13	1/4	4,500.80	1/4	4,151.70	1/4	3,790.82	1/4	3,428.06	1/4	3,065.30	1/4	2,702.54	1/4	2,339.67
1/2		1/2	5,149.81	1/2	4,829.30	1/2	4,493.66	1/2	4,144.29	1/2	3,783.26	1/2	3,420.50	1/2	3,057.74	1/2	2,694.98	1/2	2,332.11
3/4		3/4	5,142.61	3/4	4,822.47	3/4	4,486.53	3/4	4,136.88	3/4	3,775.71	3/4	3,412.95	3/4	3,050.19	3/4	2,687.43	3/4	2,324.55
4		4	5,136.10	4	4,815.62	4	4,479.37	4	4,129.44	4	3,768.15	4	3,405.39	4	3,042.63	4	2,679.87	4	2,316.99
1/4		1/4	5,129.60	1/4	4,808.77	1/4	4,472.21	1/4	4,122.01	1/4	3,760.59	1/4	3,397.83	1/4	3,035.07	1/4	2,672.31	1/4	2,309.43
1/2		1/2	5,123.09	1/2	4,801.91	1/2	4,465.05	1/2	4,114.58	1/2	3,753.03	1/2	3,390.27	1/2	3,027.51	1/2	2,664.75	1/2	2,301.87
3/4		3/4	5,116.58	3/4	4,795.06	3/4	4,457.89	3/4	4,107.14	3/4	3,745.48	3/4	3,382.72	3/4	3,019.96	3/4	2,657.20	3/4	2,294.31
5		5	5,110.05	5	4,788.19	5	4,450.71	5	4,099.68	5	3,737.92	5	3,375.16	5	3,012.40	5	2,649.64	5	2,286.75
1/4		1/4	5,103.52	1/4	4,781.31	1/4	4,443.53	1/4	4,092.23	1/4	3,730.36	1/4	3,367.60	1/4	3,004.84	1/4	2,642.08	1/4	2,279.19
1/2		1/2	5,096.99	1/2	4,774.43	1/2	4,436.35	1/2	4,084.77	1/2	3,722.80	1/2	3,360.04	1/2	2,997.28	1/2	2,634.52	1/2	2,271.63
3/4		3/4	5,090.46	3/4	4,767.56	3/4	4,429.17	3/4	4,077.31	3/4	3,715.25	3/4	3,352.49	3/4	2,989.73	3/4	2,626.97	3/4	2,264.07
6		6	5,083.91	6	4,760.66	6	4,421.97	6	4,069.83	6	3,707.69	6	3,344.93	6	2,982.17	6	2,619.41	6	2,256.51
1/4		1/4	5,077.36	1/4	4,753.76	1/4	4,414.76	1/4	4,062.35	1/4	3,700.13	1/4	3,337.37	1/4	2,974.61	1/4	2,611.85	1/4	2,248.95
1/2		1/2	5,070.80	1/2	4,746.86	1/2	4,407.56	1/2	4,054.87	1/2	3,692.57	1/2	3,329.81	1/2	2,967.05	1/2	2,604.29	1/2	2,241.39
3/4		3/4	5,064.25	3/4	4,739.96	3/4	4,400.36	3/4	4,047.39	3/4	3,685.02	3/4	3,322.26	3/4	2,959.50	3/4	2,596.72	3/4	2,233.83
7		7	5,057.67	7	4,733.04	7	4,393.13	7	4,039.89	7	3,677.46	7	3,314.70	7	2,951.94	7	2,589.16	7	2,226.27
1/4		1/4	5,051.10	1/4	4,726.11	1/4	4,385.90	1/4	4,032.39	1/4	3,669.90	1/4	3,307.14	1/4	2,944.38	1/4	2,581.60	1/4	2,218.71
1/2		1/2	5,044.52	1/2	4,719.19	1/2	4,378.68	1/2	4,024.89	1/2	3,662.34	1/2	3,299.58	1/2	2,936.82	1/2	2,574.04	1/2	2,211.15
3/4		3/4	5,037.94	3/4	4,712.26	3/4	4,371.45	3/4	4,017.38	3/4	3,654.79	3/4	3,292.03	3/4	2,929.27	3/4	2,566.48	3/4	2,203.59
8		8	5,031.34	8	4,705.29	8	4,364.20	8	4,009.86	8	3,647.23	8	3,284.47	8	2,921.71	8	2,558.92	8	2,196.03
1/4		1/4	5,024.74	1/4	4,698.32	1/4	4,356.95	1/4	4,002.33	1/4	3,639.67	1/4	3,276.91	1/4	2,914.15	1/4	2,551.36	1/4	2,188.47
1/2		1/2	5,018.15	1/2	4,691.34	1/2	4,349.70	1/2	3,994.81	1/2	3,632.11	1/2	3,269.35	1/2	2,906.59	1/2	2,543.80	1/2	2,180.91
3/4		3/4	5,011.55	3/4	4,684.37	3/4	4,342.45	3/4	3,987.28	3/4	3,624.56	3/4	3,261.80	3/4	2,899.04	3/4	2,536.24	3/4	2,173.35
9		9	5,004.91	9	4,677.37	9	4,335.18	9	3,979.73	9	3,617.00	9	3,254.24	9	2,891.48	9	2,528.68	9	2,165.79
1/4		1/4	4,998.28	1/4	4,670.37	1/4	4,327.90	1/4	3,972.18	1/4	3,609.44	1/4	3,246.68	1/4	2,883.92	1/4	2,521.12	1/4	2,158.23
1/2		1/2	4,991.65	1/2	4,663.38	1/2	4,320.63	1/2	3,964.63	1/2	3,601.88	1/2	3,239.12	1/2	2,876.36	1/2	2,513.56	1/2	2,150.67
3/4		3/4	4,985.02	3/4	4,656.38	3/4	4,313.36	3/4	3,957.09	3/4	3,594.33	3/4	3,231.57	3/4	2,868.81	3/4	2,506.00	3/4	2,143.11
10		10	4,978.30	10	4,649.36	10	4,306.06	10	3,949.53	10	3,586.77	10	3,224.01	10	2,861.25	10	2,498.44	10	2,135.55
1/4		1/4	4,971.59	1/4	4,642.34	1/4	4,298.77	1/4	3,941.97	1/4	3,579.21	1/4	3,216.45	1/4	2,853.69	1/4	2,490.88	1/4	2,127.99
1/2		1/2	4,964.87	1/2	4,635.32	1/2	4,291.47	1/2	3,934.41	1/2	3,571.65	1/2	3,208.89	1/2	2,846.13	1/2	2,483.32	1/2	2,120.43
3/4		3/4	4,958.15	3/4	4,628.30	3/4	4,284.17	3/4	3,926.86	3/4	3,564.10	3/4	3,201.34	3/4	2,838.58	3/4	2,475.76	3/4	2,112.87
11		11	4,951.41	11	4,621.26	11	4,276.86	11	3,919.30	11	3,556.54	11	3,193.78	11	2,831.02	11	2,468.20	11	2,105.31
1/4		1/4	4,944.67	1/4	4,614.22	1/4	4,269.54	1/4	3,911.74	1/4	3,548.98	1/4	3,186.22	1/4	2,823.46	1/4	2,460.64	1/4	2,097.75
1/2		1/2	4,937.93	1/2	4,607.17	1/2	4,262.22	1/2	3,904.18	1/2	3,541.42	1/2	3,178.66	1/2	2,815.90	1/2	2,453.08	1/2	2,090.18
3/4		3/4	4,931.19	3/4	4,600.13	3/4	4,254.90	3/4	3,896.63	3/4	3,533.87	3/4	3,171.11	3/4	2,808.35	3/4	2,445.52	3/4	2,082.62

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" DIAMETER "HERMETIC" VALVE

GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

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BARGE "HSM 3149"

1 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

GAUGE HEIGHT 15'-08 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	2,075.06	0	1,712.17	0	1,349.28	0	986.79	0	623.99	0	261.11	0		0		0		0	
1/4	2,067.50	1/4	1,704.61	1/4	1,341.72	1/4	979.24	1/4	616.43	1/4	253.55	1/4		1/4		1/4		1/4	
1/2	2,059.94	1/2	1,697.05	1/2	1,334.15	1/2	971.70	1/2	608.87	1/2	245.99	1/2		1/2		1/2		1/2	
3/4	2,052.38	3/4	1,689.49	3/4	1,326.59	3/4	964.15	3/4	601.31	3/4	238.43	3/4		3/4		3/4		3/4	
1	2,044.82	1	1,681.93	1	1,319.03	1	956.60	1	593.75	1	230.87	1		1		1		1	
1/4	2,037.26	1/4	1,674.37	1/4	1,311.47	1/4	949.05	1/4	586.19	1/4	223.31	1/4		1/4		1/4		1/4	
1/2	2,029.70	1/2	1,666.81	1/2	1,303.91	1/2	941.50	1/2	578.63	1/2	215.75	1/2		1/2		1/2		1/2	
3/4	2,022.14	3/4	1,659.25	3/4	1,296.35	3/4	933.95	3/4	571.07	3/4	208.19	3/4		3/4		3/4		3/4	
2	2,014.58	2	1,651.69	2	1,288.79	2	926.39	2	563.51	2	200.63	2		2		2		2	
1/4	2,007.02	1/4	1,644.13	1/4	1,281.23	1/4	918.83	1/4	555.95	1/4	193.07	1/4		1/4		1/4		1/4	
1/2	1,999.46	1/2	1,636.57	1/2	1,273.67	1/2	911.27	1/2	548.39	1/2	185.51	1/2		1/2		1/2		1/2	
3/4	1,991.90	3/4	1,629.01	3/4	1,266.11	3/4	903.71	3/4	540.83	3/4	177.95	3/4		3/4		3/4		3/4	
3	1,984.34	3	1,621.45	3	1,258.55	3	896.15	3	533.27	3	170.39	3		3		3		3	
1/4	1,976.78	1/4	1,613.89	1/4	1,250.99	1/4	888.59	1/4	525.71	1/4	162.83	1/4		1/4		1/4		1/4	
1/2	1,969.22	1/2	1,606.33	1/2	1,243.44	1/2	881.03	1/2	518.15	1/2	155.27	1/2		1/2		1/2		1/2	
3/4	1,961.66	3/4	1,598.77	3/4	1,235.88	3/4	873.47	3/4	510.59	3/4	147.71	3/4		3/4		3/4		3/4	
4	1,954.10	4	1,591.20	4	1,228.33	4	865.91	4	503.03	4	140.15	4		4		4		4	
1/4	1,946.54	1/4	1,583.64	1/4	1,220.78	1/4	858.35	1/4	495.47	1/4	132.59	1/4		1/4		1/4		1/4	
1/2	1,938.98	1/2	1,576.08	1/2	1,213.23	1/2	850.79	1/2	487.91	1/2	125.03	1/2		1/2		1/2		1/2	
3/4	1,931.42	3/4	1,568.52	3/4	1,205.68	3/4	843.23	3/4	480.35	3/4	117.47	3/4		3/4		3/4		3/4	
5	1,923.86	5	1,560.96	5	1,198.14	5	835.67	5	472.79	5	109.99	5		5		5		5	
1/4	1,916.30	1/4	1,553.40	1/4	1,190.59	1/4	828.11	1/4	465.23	1/4	102.51	1/4		1/4		1/4		1/4	
1/2	1,908.74	1/2	1,545.84	1/2	1,183.04	1/2	820.55	1/2	457.67	1/2	95.03	1/2		1/2		1/2		1/2	
3/4	1,901.18	3/4	1,538.28	3/4	1,175.49	3/4	812.99	3/4	450.11	3/4	87.55	3/4		3/4		3/4		3/4	
6	1,893.62	6	1,530.72	6	1,167.94	6	805.43	6	442.55	6	80.77	6		6		6		6	
1/4	1,886.06	1/4	1,523.16	1/4	1,160.40	1/4	797.87	1/4	434.99	1/4	74.00	1/4		1/4		1/4		1/4	
1/2	1,878.50	1/2	1,515.60	1/2	1,152.85	1/2	790.31	1/2	427.43	1/2	67.23	1/2		1/2		1/2		1/2	
3/4	1,870.94	3/4	1,508.04	3/4	1,145.30	3/4	782.75	3/4	419.87	3/4	60.46	3/4		3/4		3/4		3/4	
7	1,863.38	7	1,500.48	7	1,137.75	7	775.19	7	412.31	7	54.95	7		7		7		7	
1/4	1,855.82	1/4	1,492.92	1/4	1,130.20	1/4	767.63	1/4	404.75	1/4	49.43	1/4		1/4		1/4		1/4	
1/2	1,848.26	1/2	1,485.36	1/2	1,122.66	1/2	760.07	1/2	397.19	1/2	43.92	1/2		1/2		1/2		1/2	
3/4	1,840.69	3/4	1,477.80	3/4	1,115.11	3/4	752.51	3/4	389.63	3/4	38.41	3/4		3/4		3/4		3/4	
8	1,833.13	8	1,470.24	8	1,107.56	8	744.95	8	382.07	8	34.16	8		8		8		8	
1/4	1,825.57	1/4	1,462.68	1/4	1,100.01	1/4	737.39	1/4	374.51	1/4	29.91	1/4		1/4		1/4		1/4	
1/2	1,818.01	1/2	1,455.12	1/2	1,092.46	1/2	729.83	1/2	366.95	1/2	25.66	1/2		1/2		1/2		1/2	
3/4	1,810.45	3/4	1,447.56	3/4	1,084.92	3/4	722.27	3/4	359.39	3/4	21.41	3/4		3/4		3/4		3/4	
9	1,802.89	9	1,440.00	9	1,077.37	9	714.71	9	351.83	9		9		9		9		9	
1/4	1,795.33	1/4	1,432.44	1/4	1,069.82	1/4	707.15	1/4	344.27	1/4		1/4		1/4		1/4		1/4	
1/2	1,787.77	1/2	1,424.88	1/2	1,062.27	1/2	699.59	1/2	336.71	1/2		1/2		1/2		1/2		1/2	
3/4	1,780.21	3/4	1,417.32	3/4	1,054.72	3/4	692.03	3/4	329.15	3/4		3/4		3/4		3/4		3/4	
10	1,772.65	10	1,409.76	10	1,047.18	10	684.47	10	321.59	10		10		10		10		10	
1/4	1,765.09	1/4	1,402.20	1/4	1,039.63	1/4	676.91	1/4	314.03	1/4		1/4		1/4		1/4		1/4	
1/2	1,757.53	1/2	1,394.64	1/2	1,032.08	1/2	669.35	1/2	306.47	1/2		1/2		1/2		1/2		1/2	
3/4	1,749.97	3/4	1,387.08	3/4	1,024.53	3/4	661.79	3/4	298.91	3/4		3/4		3/4		3/4		3/4	
11	1,742.41	11	1,379.52	11	1,016.98	11	654.23	11	291.35	11		11		11		11		11	
1/4	1,734.85	1/4	1,371.96	1/4	1,009.44	1/4	646.67	1/4	283.79	1/4		1/4		1/4		1/4		1/4	
1/2	1,727.29	1/2	1,364.40	1/2	1,001.89	1/2	639.11	1/2	276.23	1/2		1/2		1/2		1/2		1/2	
3/4	1,719.73	3/4	1,356.84	3/4	994.34	3/4	631.55	3/4	268.67	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/15/2023 JS
CALCULATED: 02/16/2023 CL
PRINTED: 02/17/2023 JS

PRECISION MEASUREMENT
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CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2023



BARGE "HSM 3149"

1 STBD

ULLAGE TABLE

HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

GAUGE HEIGHT 15'-08 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0	4,916.83	0	4,585.06	0	4,239.19	0	3,880.42	0	3,517.58	0	3,154.75	0	2,791.91	0	2,428.99
1/4	1/4	1/4	1/4	1/4	4,910.07	1/4	4,577.99	1/4	4,231.85	1/4	3,872.86	1/4	3,510.02	1/4	3,147.19	1/4	2,784.35	1/4	2,421.43
1/2	1/2	1/2	1/2	1/2	4,903.30	1/2	4,570.93	1/2	4,224.50	1/2	3,865.30	1/2	3,502.46	1/2	3,139.63	1/2	2,776.79	1/2	2,413.87
3/4	3/4	3/4	3/4	3/4	4,896.52	3/4	4,563.83	3/4	4,217.14	3/4	3,857.74	3/4	3,494.90	3/4	3,132.07	3/4	2,769.23	3/4	2,406.31
1	1	1	1	1	4,889.73	1	4,556.74	1	4,209.77	1	3,850.18	1	3,487.35	1	3,124.51	1	2,761.67	1	2,398.74
1/4	1/4	1/4	1/4	1/4	4,882.95	1/4	4,549.65	1/4	4,202.41	1/4	3,842.62	1/4	3,479.79	1/4	3,116.95	1/4	2,754.11	1/4	2,391.18
1/2	1/2	1/2	1/2	1/2	4,876.16	1/2	4,542.56	1/2	4,195.04	1/2	3,835.06	1/2	3,472.23	1/2	3,109.39	1/2	2,746.55	1/2	2,383.62
3/4	3/4	3/4	3/4	3/4	4,869.35	3/4	4,535.45	3/4	4,187.65	3/4	3,827.50	3/4	3,464.67	3/4	3,101.83	3/4	2,738.99	3/4	2,376.06
2	2	2	2	2	4,862.54	2	4,528.34	2	4,180.26	2	3,819.95	2	3,457.11	2	3,094.27	2	2,731.44	2	2,368.50
1/4	1/4	1/4	1/4	1/4	4,855.74	1/4	4,521.22	1/4	4,172.87	1/4	3,812.39	1/4	3,449.55	1/4	3,086.71	1/4	2,723.88	1/4	2,360.94
1/2	1/2	1/2	1/2	1/2	4,848.93	1/2	4,514.11	1/2	4,165.48	1/2	3,804.83	1/2	3,441.99	1/2	3,079.15	1/2	2,716.32	1/2	2,353.37
3/4	3/4	3/4	3/4	3/4	4,842.09	3/4	4,506.97	3/4	4,158.07	3/4	3,797.27	3/4	3,434.43	3/4	3,071.59	3/4	2,708.76	3/4	2,345.81
3	3	3	3	3	4,835.26	3	4,499.84	3	4,150.66	3	3,789.71	3	3,426.87	3	3,064.04	3	2,701.20	3	2,338.25
1/4	1/4	1/4	1/4	1/4	4,828.43	1/4	4,492.70	1/4	4,143.24	1/4	3,782.15	1/4	3,419.31	1/4	3,056.48	1/4	2,693.64	1/4	2,330.69
1/2	1/2	1/2	1/2	1/2	4,821.60	1/2	4,485.56	1/2	4,135.83	1/2	3,774.59	1/2	3,411.75	1/2	3,048.92	1/2	2,686.08	1/2	2,323.13
3/4	3/4	3/4	3/4	3/4	4,814.75	3/4	4,478.40	3/4	4,128.39	3/4	3,767.03	3/4	3,404.20	3/4	3,041.36	3/4	2,678.52	3/4	2,315.56
4	4	4	4	4	4,807.89	4	4,471.24	4	4,120.96	4	3,759.47	4	3,396.64	4	3,033.80	4	2,670.96	4	2,308.00
1/4	1/4	1/4	1/4	1/4	4,801.04	1/4	4,464.08	1/4	4,113.52	1/4	3,751.91	1/4	3,389.08	1/4	3,026.24	1/4	2,663.40	1/4	2,300.44
1/2	1/2	1/2	1/2	1/2	4,794.18	1/2	4,456.92	1/2	4,106.09	1/2	3,744.35	1/2	3,381.52	1/2	3,018.68	1/2	2,655.84	1/2	2,292.88
3/4	3/4	3/4	3/4	3/4	4,787.30	3/4	4,449.74	3/4	4,098.63	3/4	3,736.80	3/4	3,373.96	3/4	3,011.12	3/4	2,648.28	3/4	2,285.32
5	5	5	5	5	4,780.43	5	4,442.56	5	4,091.17	5	3,729.24	5	3,366.40	5	3,003.56	5	2,640.72	5	2,277.76
1/4	1/4	1/4	1/4	1/4	4,773.55	1/4	4,435.38	1/4	4,083.71	1/4	3,721.68	1/4	3,358.84	1/4	2,996.00	1/4	2,633.16	1/4	2,270.19
1/2	1/2	1/2	1/2	1/2	4,766.67	1/2	4,428.19	1/2	4,076.25	1/2	3,714.12	1/2	3,351.28	1/2	2,988.44	1/2	2,625.60	1/2	2,262.63
3/4	3/4	3/4	3/4	3/4	4,759.77	3/4	4,420.99	3/4	4,068.77	3/4	3,706.56	3/4	3,343.72	3/4	2,980.89	3/4	2,618.04	3/4	2,255.07
6	6	6	6	6	4,752.87	6	4,413.78	6	4,061.29	6	3,699.00	6	3,336.16	6	2,973.33	6	2,610.47	6	2,247.51
1/4	1/4	1/4	1/4	1/4	4,745.97	1/4	4,406.58	1/4	4,053.81	1/4	3,691.44	1/4	3,328.60	1/4	2,965.77	1/4	2,602.91	1/4	2,239.95
1/2	1/2	1/2	1/2	1/2	4,739.07	1/2	4,399.37	1/2	4,046.33	1/2	3,683.88	1/2	3,321.05	1/2	2,958.21	1/2	2,595.35	1/2	2,232.38
3/4	3/4	3/4	3/4	3/4	4,732.14	3/4	4,392.14	3/4	4,038.82	3/4	3,676.32	3/4	3,313.49	3/4	2,950.65	3/4	2,587.79	3/4	2,224.82
7	7	7	7	7	4,725.21	7	4,384.91	7	4,031.32	7	3,668.76	7	3,305.93	7	2,943.09	7	2,580.23	7	2,217.26
1/4	1/4	1/4	1/4	1/4	4,718.29	1/4	4,377.68	1/4	4,023.81	1/4	3,661.20	1/4	3,298.37	1/4	2,935.53	1/4	2,572.67	1/4	2,209.70
1/2	1/2	1/2	1/2	1/2	4,711.36	1/2	4,370.46	1/2	4,016.31	1/2	3,653.65	1/2	3,290.81	1/2	2,927.97	1/2	2,565.10	1/2	2,202.14
3/4	3/4	3/4	3/4	3/4	4,704.38	3/4	4,363.20	3/4	4,008.78	3/4	3,646.09	3/4	3,283.25	3/4	2,920.41	3/4	2,557.54	3/4	2,194.58
8	8	8	8	8	4,697.41	8	4,355.95	8	4,001.26	8	3,638.53	8	3,275.69	8	2,912.85	8	2,549.98	8	2,187.01
1/4	1/4	1/4	1/4	1/4	4,690.43	1/4	4,348.70	1/4	3,993.73	1/4	3,630.97	1/4	3,268.13	1/4	2,905.29	1/4	2,542.42	1/4	2,179.45
1/2	1/2	1/2	1/2	1/2	4,683.46	1/2	4,341.45	1/2	3,986.20	1/2	3,623.41	1/2	3,260.57	1/2	2,897.74	1/2	2,534.86	1/2	2,171.89
3/4	3/4	3/4	3/4	3/4	4,676.46	3/4	4,334.18	3/4	3,978.65	3/4	3,615.85	3/4	3,253.01	3/4	2,890.18	3/4	2,527.30	3/4	2,164.33
9	9	9	9	9	4,669.46	9	4,326.90	9	3,971.11	9	3,608.29	9	3,245.45	9	2,882.62	9	2,519.73	9	2,156.77
1/4	1/4	1/4	1/4	1/4	4,662.46	1/4	4,319.63	1/4	3,963.56	1/4	3,600.73	1/4	3,237.90	1/4	2,875.06	1/4	2,512.17	1/4	2,149.21
1/2	1/2	1/2	1/2	1/2	4,655.46	1/2	4,312.35	1/2	3,956.01	1/2	3,593.17	1/2	3,230.34	1/2	2,867.50	1/2	2,504.61	1/2	2,141.64
3/4	3/4	3/4	3/4	3/4	4,648.44	3/4	4,305.05	3/4	3,948.45	3/4	3,585.61	3/4	3,222.78	3/4	2,859.94	3/4	2,497.05	3/4	2,134.08
10	10	10	10	10	4,641.42	10	4,297.76	10	3,940.89	10	3,578.05	10	3,215.22	10	2,852.38	10	2,489.49	10	2,126.52
1/4	1/4	1/4	1/4	1/4	4,634.40	1/4	4,290.46	1/4	3,933.33	1/4	3,570.50	1/4	3,207.66	1/4	2,844.82	1/4	2,481.92	1/4	2,118.96
1/2	1/2	1/2	1/2	1/2	4,627.38	1/2	4,283.16	1/2	3,925.77	1/2	3,562.94	1/2	3,200.10	1/2	2,837.26	1/2	2,474.36	1/2	2,111.40
3/4	3/4	3/4	3/4	3/4	4,620.33	3/4	4,275.84	3/4	3,918.21	3/4	3,555.38	3/4	3,192.54	3/4	2,829.70	3/4	2,466.80	3/4	2,103.83
11	11	11	11	11	4,613.29	11	4,268.52	11	3,910.66	11	3,547.82	11	3,184.98	11	2,822.14	11	2,459.24	11	2,096.27
1/4	1/4	1/4	1/4	1/4	4,606.24	1/4	4,261.20	1/4	3,903.10	1/4	3,540.26	1/4	3,177.42	1/4	2,814.59	1/4	2,451.68	1/4	2,088.71
1/2	1/2	1/2	1/2	1/2	4,599.20	1/2	4,253.88	1/2	3,895.54	1/2	3,532.70	1/2	3,169.86	1/2	2,807.03	1/2	2,444.12	1/2	2,081.15
3/4	3/4	3/4	3/4	3/4	4,592.13	3/4	4,246.54	3/4	3,887.98	3/4	3,525.14	3/4	3,162.30	3/4	2,799.47	3/4	2,436.55	3/4	2,073.59

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" DIAMETER "HERMETIC" VALVE
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HSM 3149"

1 STBD

ULLAGE TABLE

HERMETIC

GAUGE HEIGHT 15'-08 1/2"

CAPACITIES GIVEN IN BARRELS OF 42 US 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	2,066.03	0	1,703.06	0	1,340.09	0	979.07	0	616.55	0	253.60	0		0		0		0	
1/4	2,058.46	1/4	1,695.50	1/4	1,332.53	1/4	971.56	1/4	608.99	1/4	246.04	1/4		1/4		1/4		1/4	
1/2	2,050.90	1/2	1,687.94	1/2	1,324.97	1/2	964.05	1/2	601.43	1/2	238.48	1/2		1/2		1/2		1/2	
3/4	2,043.34	3/4	1,680.37	3/4	1,317.41	3/4	956.54	3/4	593.87	3/4	230.92	3/4		3/4		3/4		3/4	
1	2,035.78	1	1,672.81	1	1,309.85	1	949.03	1	586.31	1	223.35	1		1		1		1	
1/4	2,028.22	1/4	1,665.25	1/4	1,302.28	1/4	941.51	1/4	578.75	1/4	215.79	1/4		1/4		1/4		1/4	
1/2	2,020.65	1/2	1,657.69	1/2	1,294.72	1/2	934.00	1/2	571.18	1/2	208.23	1/2		1/2		1/2		1/2	
3/4	2,013.09	3/4	1,650.13	3/4	1,287.16	3/4	926.47	3/4	563.62	3/4	200.67	3/4		3/4		3/4		3/4	
2	2,005.53	2	1,642.56	2	1,279.61	2	918.95	2	556.06	2	193.11	2		2		2		2	
1/4	1,997.97	1/4	1,635.00	1/4	1,272.05	1/4	911.42	1/4	548.50	1/4	185.55	1/4		1/4		1/4		1/4	
1/2	1,990.41	1/2	1,627.44	1/2	1,264.49	1/2	903.89	1/2	540.94	1/2	177.99	1/2		1/2		1/2		1/2	
3/4	1,982.85	3/4	1,619.88	3/4	1,256.97	3/4	896.33	3/4	533.38	3/4	170.42	3/4		3/4		3/4		3/4	
3	1,975.28	3	1,612.32	3	1,249.45	3	888.77	3	525.81	3	162.86	3		3		3		3	
1/4	1,967.72	1/4	1,604.76	1/4	1,241.93	1/4	881.21	1/4	518.25	1/4	155.30	1/4		1/4		1/4		1/4	
1/2	1,960.16	1/2	1,597.19	1/2	1,234.41	1/2	873.64	1/2	510.69	1/2	147.74	1/2		1/2		1/2		1/2	
3/4	1,952.60	3/4	1,589.63	3/4	1,226.90	3/4	866.08	3/4	503.13	3/4	140.18	3/4		3/4		3/4		3/4	
4	1,945.04	4	1,582.07	4	1,219.39	4	858.52	4	495.57	4	132.62	4		4		4		4	
1/4	1,937.47	1/4	1,574.51	1/4	1,211.88	1/4	850.96	1/4	488.01	1/4	125.06	1/4		1/4		1/4		1/4	
1/2	1,929.91	1/2	1,566.95	1/2	1,204.37	1/2	843.40	1/2	480.45	1/2	117.49	1/2		1/2		1/2		1/2	
3/4	1,922.35	3/4	1,559.38	3/4	1,196.86	3/4	835.84	3/4	472.88	3/4	110.01	3/4		3/4		3/4		3/4	
5	1,914.79	5	1,551.82	5	1,189.35	5	828.27	5	465.32	5	102.53	5		5		5		5	
1/4	1,907.23	1/4	1,544.26	1/4	1,181.84	1/4	820.71	1/4	457.76	1/4	95.05	1/4		1/4		1/4		1/4	
1/2	1,899.67	1/2	1,536.70	1/2	1,174.33	1/2	813.15	1/2	450.20	1/2	87.56	1/2		1/2		1/2		1/2	
3/4	1,892.10	3/4	1,529.14	3/4	1,166.82	3/4	805.59	3/4	442.64	3/4	80.79	3/4		3/4		3/4		3/4	
6	1,884.54	6	1,521.58	6	1,159.31	6	798.03	6	435.08	6	74.02	6		6		6		6	
1/4	1,876.98	1/4	1,514.01	1/4	1,151.80	1/4	790.47	1/4	427.52	1/4	67.24	1/4		1/4		1/4		1/4	
1/2	1,869.42	1/2	1,506.45	1/2	1,144.29	1/2	782.91	1/2	419.95	1/2	60.47	1/2		1/2		1/2		1/2	
3/4	1,861.86	3/4	1,498.89	3/4	1,136.78	3/4	775.34	3/4	412.39	3/4	54.96	3/4		3/4		3/4		3/4	
7	1,854.29	7	1,491.33	7	1,129.27	7	767.78	7	404.83	7	49.44	7		7		7		7	
1/4	1,846.73	1/4	1,483.77	1/4	1,121.76	1/4	760.22	1/4	397.27	1/4	43.93	1/4		1/4		1/4		1/4	
1/2	1,839.17	1/2	1,476.20	1/2	1,114.25	1/2	752.66	1/2	389.71	1/2	38.42	1/2		1/2		1/2		1/2	
3/4	1,831.61	3/4	1,468.64	3/4	1,106.74	3/4	745.10	3/4	382.15	3/4	34.16	3/4		3/4		3/4		3/4	
8	1,824.05	8	1,461.08	8	1,099.23	8	737.54	8	374.58	8	29.91	8		8		8		8	
1/4	1,816.49	1/4	1,453.52	1/4	1,091.72	1/4	729.98	1/4	367.02	1/4	25.66	1/4		1/4		1/4		1/4	
1/2	1,808.92	1/2	1,445.96	1/2	1,084.21	1/2	722.41	1/2	359.46	1/2	21.41	1/2		1/2		1/2		1/2	
3/4	1,801.36	3/4	1,438.40	3/4	1,076.70	3/4	714.85	3/4	351.90	3/4		3/4		3/4		3/4		3/4	
9	1,793.80	9	1,430.83	9	1,069.19	9	707.29	9	344.34	9		9		9		9		9	
1/4	1,786.24	1/4	1,423.27	1/4	1,061.68	1/4	699.73	1/4	336.78	1/4		1/4		1/4		1/4		1/4	
1/2	1,778.68	1/2	1,415.71	1/2	1,054.17	1/2	692.17	1/2	329.22	1/2		1/2		1/2		1/2		1/2	
3/4	1,771.12	3/4	1,408.15	3/4	1,046.66	3/4	684.61	3/4	321.65	3/4		3/4		3/4		3/4		3/4	
10	1,763.55	10	1,400.59	10	1,039.15	10	677.04	10	314.09	10		10		10		10		10	
1/4	1,755.99	1/4	1,393.03	1/4	1,031.64	1/4	669.48	1/4	306.53	1/4		1/4		1/4		1/4		1/4	
1/2	1,748.43	1/2	1,385.46	1/2	1,024.13	1/2	661.92	1/2	298.97	1/2		1/2		1/2		1/2		1/2	
3/4	1,740.87	3/4	1,377.90	3/4	1,016.62	3/4	654.36	3/4	291.41	3/4		3/4		3/4		3/4		3/4	
11	1,733.31	11	1,370.34	11	1,009.11	11	646.80	11	283.85	11		11		11		11		11	
1/4	1,725.74	1/4	1,362.78	1/4	1,001.60	1/4	639.24	1/4	276.29	1/4		1/4		1/4		1/4		1/4	
1/2	1,718.18	1/2	1,355.22	1/2	994.09	1/2	631.68	1/2	268.72	1/2		1/2		1/2		1/2		1/2	
3/4	1,710.62	3/4	1,347.65	3/4	986.58	3/4	624.11	3/4	261.16	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/15/2023 JS
CALCULATED: 02/16/2023 CL
PRINTED: 02/17/2023 JS

PRECISION MEASUREMENT
& ANALYSIS, INC.
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CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2023



BARGE "HSM 3149"

2 PORT

ULLAGE TABLE

HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

GAUGE HEIGHT 15'-08 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	4,896.59	0	4,566.39	0	4,222.12	0	3,864.96	0	3,503.75	0	3,142.53	0	2,781.32	0	2,420.04
1/4		1/4		1/4	4,889.86	1/4	4,559.36	1/4	4,214.81	1/4	3,857.44	1/4	3,496.22	1/4	3,135.01	1/4	2,773.79	1/4	2,412.51
1/2		1/2	5,194.82	1/2	4,883.13	1/2	4,552.32	1/2	4,207.50	1/2	3,849.91	1/2	3,488.70	1/2	3,127.48	1/2	2,766.27	1/2	2,404.98
3/4		3/4	5,189.72	3/4	4,876.38	3/4	4,545.27	3/4	4,200.17	3/4	3,842.38	3/4	3,481.17	3/4	3,119.96	3/4	2,758.74	3/4	2,397.45
1	1	1	5,184.62	1	4,869.62	1	4,538.21	1	4,192.83	1	3,834.86	1	3,473.65	1	3,112.43	1	2,751.22	1	2,389.93
1/4		1/4	5,179.52	1/4	4,862.87	1/4	4,531.15	1/4	4,185.50	1/4	3,827.33	1/4	3,466.12	1/4	3,104.91	1/4	2,743.69	1/4	2,382.40
1/2		1/2	5,174.42	1/2	4,856.12	1/2	4,524.09	1/2	4,178.17	1/2	3,819.81	1/2	3,458.59	1/2	3,097.38	1/2	2,736.17	1/2	2,374.87
3/4		3/4	5,168.11	3/4	4,849.34	3/4	4,517.01	3/4	4,170.81	3/4	3,812.28	3/4	3,451.07	3/4	3,089.85	3/4	2,728.64	3/4	2,367.34
2	2	2	5,161.80	2	4,842.56	2	4,509.93	2	4,163.46	2	3,804.76	2	3,443.54	2	3,082.33	2	2,721.12	2	2,359.81
1/4		1/4	5,155.50	1/4	4,835.79	1/4	4,502.85	1/4	4,156.10	1/4	3,797.23	1/4	3,436.02	1/4	3,074.80	1/4	2,713.59	1/4	2,352.28
1/2		1/2	5,149.19	1/2	4,829.01	1/2	4,495.77	1/2	4,148.74	1/2	3,789.71	1/2	3,428.49	1/2	3,067.28	1/2	2,706.06	1/2	2,344.76
3/4		3/4	5,142.02	3/4	4,822.21	3/4	4,488.67	3/4	4,141.36	3/4	3,782.18	3/4	3,420.97	3/4	3,059.75	3/4	2,698.54	3/4	2,337.23
3	3	3	5,134.85	3	4,815.41	3	4,481.56	3	4,133.99	3	3,774.66	3	3,413.44	3	3,052.23	3	2,691.01	3	2,329.70
1/4		1/4	5,127.67	1/4	4,808.62	1/4	4,474.46	1/4	4,126.61	1/4	3,767.13	1/4	3,405.92	1/4	3,044.70	1/4	2,683.49	1/4	2,322.17
1/2		1/2	5,120.50	1/2	4,801.82	1/2	4,467.36	1/2	4,119.23	1/2	3,759.61	1/2	3,398.39	1/2	3,037.18	1/2	2,675.96	1/2	2,314.64
3/4		3/4	5,114.03	3/4	4,794.99	3/4	4,460.23	3/4	4,111.83	3/4	3,752.08	3/4	3,390.87	3/4	3,029.65	3/4	2,668.44	3/4	2,307.12
4	4	4	5,107.55	4	4,788.17	4	4,453.10	4	4,104.42	4	3,744.56	4	3,383.34	4	3,022.13	4	2,660.91	4	2,299.59
1/4		1/4	5,101.07	1/4	4,781.35	1/4	4,445.98	1/4	4,097.02	1/4	3,737.03	1/4	3,375.82	1/4	3,014.60	1/4	2,653.39	1/4	2,292.06
1/2		1/2	5,094.59	1/2	4,774.53	1/2	4,438.85	1/2	4,089.62	1/2	3,729.51	1/2	3,368.29	1/2	3,007.08	1/2	2,645.86	1/2	2,284.53
3/4		3/4	5,088.09	3/4	4,767.68	3/4	4,431.70	3/4	4,082.19	3/4	3,721.98	3/4	3,360.77	3/4	2,999.55	3/4	2,638.34	3/4	2,277.00
5	5	5	5,081.59	5	4,760.84	5	4,424.55	5	4,074.77	5	3,714.45	5	3,353.24	5	2,992.03	5	2,630.82	5	2,269.48
1/4		1/4	5,075.09	1/4	4,753.99	1/4	4,417.40	1/4	4,067.34	1/4	3,706.93	1/4	3,345.71	1/4	2,984.50	1/4	2,623.29	1/4	2,261.95
1/2		1/2	5,068.59	1/2	4,747.15	1/2	4,410.25	1/2	4,059.92	1/2	3,699.40	1/2	3,338.19	1/2	2,976.98	1/2	2,615.77	1/2	2,254.42
3/4		3/4	5,062.07	3/4	4,740.28	3/4	4,403.08	3/4	4,052.47	3/4	3,691.88	3/4	3,330.66	3/4	2,969.45	3/4	2,608.24	3/4	2,246.89
6	6	6	5,055.55	6	4,733.41	6	4,395.91	6	4,045.02	6	3,684.35	6	3,323.14	6	2,961.92	6	2,600.71	6	2,239.36
1/4		1/4	5,049.02	1/4	4,726.55	1/4	4,388.74	1/4	4,037.58	1/4	3,676.83	1/4	3,315.61	1/4	2,954.40	1/4	2,593.18	1/4	2,231.83
1/2		1/2	5,042.50	1/2	4,719.68	1/2	4,381.56	1/2	4,030.13	1/2	3,669.30	1/2	3,308.09	1/2	2,946.87	1/2	2,585.66	1/2	2,224.31
3/4		3/4	5,035.95	3/4	4,712.78	3/4	4,374.37	3/4	4,022.66	3/4	3,661.78	3/4	3,300.56	3/4	2,939.35	3/4	2,578.13	3/4	2,216.78
7	7	7	5,029.41	7	4,705.89	7	4,367.17	7	4,015.19	7	3,654.25	7	3,293.04	7	2,931.82	7	2,570.60	7	2,209.25
1/4		1/4	5,022.86	1/4	4,698.99	1/4	4,359.98	1/4	4,007.72	1/4	3,646.73	1/4	3,285.51	1/4	2,924.30	1/4	2,563.07	1/4	2,201.72
1/2		1/2	5,016.31	1/2	4,692.10	1/2	4,352.78	1/2	4,000.25	1/2	3,639.20	1/2	3,277.99	1/2	2,916.77	1/2	2,555.54	1/2	2,194.19
3/4		3/4	5,009.75	3/4	4,685.16	3/4	4,345.56	3/4	3,992.75	3/4	3,631.68	3/4	3,270.46	3/4	2,909.25	3/4	2,548.02	3/4	2,186.67
8	8	8	5,003.18	8	4,678.21	8	4,338.35	8	3,985.26	8	3,624.15	8	3,262.94	8	2,901.72	8	2,540.49	8	2,179.14
1/4		1/4	4,996.61	1/4	4,671.27	1/4	4,331.13	1/4	3,977.76	1/4	3,616.63	1/4	3,255.41	1/4	2,894.20	1/4	2,532.96	1/4	2,171.61
1/2		1/2	4,990.04	1/2	4,664.33	1/2	4,323.91	1/2	3,970.27	1/2	3,609.10	1/2	3,247.89	1/2	2,886.67	1/2	2,525.43	1/2	2,164.08
3/4		3/4	4,983.44	3/4	4,657.36	3/4	4,316.67	3/4	3,962.76	3/4	3,601.58	3/4	3,240.36	3/4	2,879.15	3/4	2,517.90	3/4	2,156.55
9	9	9	4,976.84	9	4,650.40	9	4,309.43	9	3,955.24	9	3,594.05	9	3,232.84	9	2,871.62	9	2,510.37	9	2,149.03
1/4		1/4	4,970.23	1/4	4,643.43	1/4	4,302.19	1/4	3,947.73	1/4	3,586.52	1/4	3,225.31	1/4	2,864.10	1/4	2,502.85	1/4	2,141.50
1/2		1/2	4,963.63	1/2	4,636.47	1/2	4,294.95	1/2	3,940.21	1/2	3,579.00	1/2	3,217.78	1/2	2,856.57	1/2	2,495.32	1/2	2,133.97
3/4		3/4	4,956.95	3/4	4,629.48	3/4	4,287.68	3/4	3,932.69	3/4	3,571.47	3/4	3,210.26	3/4	2,849.05	3/4	2,487.79	3/4	2,126.44
10	10	10	4,950.26	10	4,622.49	10	4,280.42	10	3,925.16	10	3,563.95	10	3,202.73	10	2,841.52	10	2,480.26	10	2,118.91
1/4		1/4	4,943.57	1/4	4,615.50	1/4	4,273.15	1/4	3,917.64	1/4	3,556.42	1/4	3,195.21	1/4	2,833.99	1/4	2,472.73	1/4	2,111.39
1/2		1/2	4,936.89	1/2	4,608.51	1/2	4,265.89	1/2	3,910.11	1/2	3,548.90	1/2	3,187.68	1/2	2,826.47	1/2	2,465.21	1/2	2,103.86
3/4		3/4	4,930.18	3/4	4,601.50	3/4	4,258.60	3/4	3,902.59	3/4	3,541.37	3/4	3,180.16	3/4	2,818.94	3/4	2,457.68	3/4	2,096.33
11	11	11	4,923.47	11	4,594.49	11	4,251.31	11	3,895.06	11	3,533.85	11	3,172.63	11	2,811.42	11	2,450.15	11	2,088.80
1/4		1/4	4,916.76	1/4	4,587.47	1/4	4,244.03	1/4	3,887.54	1/4	3,526.32	1/4	3,165.11	1/4	2,803.89	1/4	2,442.62	1/4	2,081.27
1/2		1/2	4,910.05	1/2	4,580.46	1/2	4,236.74	1/2	3,880.01	1/2	3,518.80	1/2	3,157.58	1/2	2,796.37	1/2	2,435.09	1/2	2,073.74
3/4		3/4	4,903.32	3/4	4,573.43	3/4	4,229.43	3/4	3,872.49	3/4	3,511.27	3/4	3,150.06	3/4	2,788.84	3/4	2,427.57	3/4	2,066.22

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" DIAMETER "HERMETIC" VALVE

GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HSM 3149"

2 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

GAUGE HEIGHT 15'-08 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,058.69	0	1,697.34	0	1,335.99	0	975.07	0	613.80	0	252.47	0		0		0		0	
1/4	2,051.16	1/4	1,689.81	1/4	1,328.46	1/4	967.55	1/4	606.28	1/4	244.94	1/4		1/4		1/4		1/4	
1/2	2,043.63	1/2	1,682.28	1/2	1,320.93	1/2	960.04	1/2	598.75	1/2	237.41	1/2		1/2		1/2		1/2	
3/4	2,036.10	3/4	1,674.76	3/4	1,313.41	3/4	952.52	3/4	591.22	3/4	229.89	3/4		3/4		3/4		3/4	
1	2,028.58	1	1,667.23	1	1,305.88	1	945.00	1	583.69	1	222.36	1		1		1		1	
1/4	2,021.05	1/4	1,659.70	1/4	1,298.35	1/4	937.49	1/4	576.17	1/4	214.83	1/4		1/4		1/4		1/4	
1/2	2,013.52	1/2	1,652.17	1/2	1,290.82	1/2	929.97	1/2	568.64	1/2	207.30	1/2		1/2		1/2		1/2	
3/4	2,005.99	3/4	1,644.64	3/4	1,283.29	3/4	922.44	3/4	561.11	3/4	199.78	3/4		3/4		3/4		3/4	
2	1,998.46	2	1,637.12	2	1,275.77	2	914.92	2	553.58	2	192.25	2		2		2		2	
1/4	1,990.94	1/4	1,629.59	1/4	1,268.24	1/4	907.39	1/4	546.05	1/4	184.72	1/4		1/4		1/4		1/4	
1/2	1,983.41	1/2	1,622.06	1/2	1,260.71	1/2	899.86	1/2	538.53	1/2	177.19	1/2		1/2		1/2		1/2	
3/4	1,975.88	3/4	1,614.53	3/4	1,253.18	3/4	892.33	3/4	531.00	3/4	169.66	3/4		3/4		3/4		3/4	
3	1,968.35	3	1,607.00	3	1,245.66	3	884.80	3	523.47	3	162.14	3		3		3		3	
1/4	1,960.82	1/4	1,599.47	1/4	1,238.13	1/4	877.28	1/4	515.94	1/4	154.61	1/4		1/4		1/4		1/4	
1/2	1,953.30	1/2	1,591.95	1/2	1,230.60	1/2	869.75	1/2	508.41	1/2	147.08	1/2		1/2		1/2		1/2	
3/4	1,945.77	3/4	1,584.42	3/4	1,223.09	3/4	862.22	3/4	500.89	3/4	139.55	3/4		3/4		3/4		3/4	
4	1,938.24	4	1,576.89	4	1,215.57	4	854.69	4	493.36	4	132.02	4		4		4		4	
1/4	1,930.71	1/4	1,569.36	1/4	1,208.06	1/4	847.17	1/4	485.83	1/4	124.50	1/4		1/4		1/4		1/4	
1/2	1,923.18	1/2	1,561.83	1/2	1,200.54	1/2	839.64	1/2	478.30	1/2	116.97	1/2		1/2		1/2		1/2	
3/4	1,915.65	3/4	1,554.31	3/4	1,193.03	3/4	832.11	3/4	470.78	3/4	109.52	3/4		3/4		3/4		3/4	
5	1,908.13	5	1,546.78	5	1,185.51	5	824.58	5	463.25	5	102.07	5		5		5		5	
1/4	1,900.60	1/4	1,539.25	1/4	1,177.99	1/4	817.05	1/4	455.72	1/4	94.62	1/4		1/4		1/4		1/4	
1/2	1,893.07	1/2	1,531.72	1/2	1,170.48	1/2	809.53	1/2	448.19	1/2	87.17	1/2		1/2		1/2		1/2	
3/4	1,885.54	3/4	1,524.19	3/4	1,162.96	3/4	802.00	3/4	440.66	3/4	80.43	3/4		3/4		3/4		3/4	
6	1,878.01	6	1,516.67	6	1,155.45	6	794.47	6	433.14	6	73.69	6		6		6		6	
1/4	1,870.49	1/4	1,509.14	1/4	1,147.93	1/4	786.94	1/4	425.61	1/4	66.94	1/4		1/4		1/4		1/4	
1/2	1,862.96	1/2	1,501.61	1/2	1,140.42	1/2	779.42	1/2	418.08	1/2	60.20	1/2		1/2		1/2		1/2	
3/4	1,855.43	3/4	1,494.08	3/4	1,132.90	3/4	771.89	3/4	410.55	3/4	54.71	3/4		3/4		3/4		3/4	
7	1,847.90	7	1,486.55	7	1,125.38	7	764.36	7	403.03	7	49.22	7		7		7		7	
1/4	1,840.37	1/4	1,479.02	1/4	1,117.87	1/4	756.83	1/4	395.50	1/4	43.73	1/4		1/4		1/4		1/4	
1/2	1,832.85	1/2	1,471.50	1/2	1,110.35	1/2	749.30	1/2	387.97	1/2	38.25	1/2		1/2		1/2		1/2	
3/4	1,825.32	3/4	1,463.97	3/4	1,102.84	3/4	741.78	3/4	380.44	3/4	34.01	3/4		3/4		3/4		3/4	
8	1,817.79	8	1,456.44	8	1,095.32	8	734.25	8	372.91	8	29.78	8		8		8		8	
1/4	1,810.26	1/4	1,448.91	1/4	1,087.80	1/4	726.72	1/4	365.39	1/4	25.55	1/4		1/4		1/4		1/4	
1/2	1,802.73	1/2	1,441.38	1/2	1,080.29	1/2	719.19	1/2	357.86	1/2	21.31	1/2		1/2		1/2		1/2	
3/4	1,795.21	3/4	1,433.86	3/4	1,072.77	3/4	711.67	3/4	350.33	3/4		3/4		3/4		3/4		3/4	
9	1,787.68	9	1,426.33	9	1,065.26	9	704.14	9	342.80	9		9		9		9		9	
1/4	1,780.15	1/4	1,418.80	1/4	1,057.74	1/4	696.61	1/4	335.28	1/4		1/4		1/4		1/4		1/4	
1/2	1,772.62	1/2	1,411.27	1/2	1,050.23	1/2	689.08	1/2	327.75	1/2		1/2		1/2		1/2		1/2	
3/4	1,765.09	3/4	1,403.74	3/4	1,042.71	3/4	681.55	3/4	320.22	3/4		3/4		3/4		3/4		3/4	
10	1,757.56	10	1,396.22	10	1,035.19	10	674.03	10	312.69	10		10		10		10		10	
1/4	1,750.04	1/4	1,388.69	1/4	1,027.68	1/4	666.50	1/4	305.16	1/4		1/4		1/4		1/4		1/4	
1/2	1,742.51	1/2	1,381.16	1/2	1,020.16	1/2	658.97	1/2	297.64	1/2		1/2		1/2		1/2		1/2	
3/4	1,734.98	3/4	1,373.63	3/4	1,012.65	3/4	651.44	3/4	290.11	3/4		3/4		3/4		3/4		3/4	
11	1,727.45	11	1,366.10	11	1,005.13	11	643.92	11	282.58	11		11		11		11		11	
1/4	1,719.92	1/4	1,358.58	1/4	997.62	1/4	636.39	1/4	275.05	1/4		1/4		1/4		1/4		1/4	
1/2	1,712.40	1/2	1,351.05	1/2	990.10	1/2	628.86	1/2	267.53	1/2		1/2		1/2		1/2		1/2	
3/4	1,704.87	3/4	1,343.52	3/4	982.58	3/4	621.33	3/4	260.00	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/15/2023 JS
CALCULATED: 02/16/2023 CL
PRINTED: 02/17/2023 JS

PRECISION MEASUREMENT
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CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2023



BARGE "HSM 3149"

2 STBD

ULLAGE TABLE

HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

GAUGE HEIGHT 15'-08 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	4,874.55	0	4,544.02	0	4,199.43	0	3,842.01	0	3,480.76	0	3,119.50	0	2,758.24	0	2,396.90
1/4		1/4	5,179.54	1/4	4,867.82	1/4	4,536.98	1/4	4,192.12	1/4	3,834.49	1/4	3,473.23	1/4	3,111.97	1/4	2,750.71	1/4	2,389.37
1/2		1/2	5,174.44	1/2	4,861.06	1/2	4,529.93	1/2	4,184.79	1/2	3,826.96	1/2	3,465.70	1/2	3,104.45	1/2	2,743.19	1/2	2,381.84
3/4		3/4	5,169.34	3/4	4,854.31	3/4	4,522.87	3/4	4,177.46	3/4	3,819.44	3/4	3,458.18	3/4	3,096.92	3/4	2,735.66	3/4	2,374.31
1		1	5,164.24	1	4,847.56	1	4,515.81	1	4,170.12	1	3,811.91	1	3,450.65	1	3,089.39	1	2,728.14	1	2,366.78
1/4		1/4	5,159.14	1/4	4,840.80	1/4	4,508.75	1/4	4,162.79	1/4	3,804.38	1/4	3,443.13	1/4	3,081.87	1/4	2,720.61	1/4	2,359.25
1/2		1/2	5,152.83	1/2	4,834.03	1/2	4,501.67	1/2	4,155.43	1/2	3,796.86	1/2	3,435.60	1/2	3,074.34	1/2	2,713.08	1/2	2,351.72
3/4		3/4	5,146.52	3/4	4,827.25	3/4	4,494.59	3/4	4,148.07	3/4	3,789.33	3/4	3,428.07	3/4	3,066.82	3/4	2,705.56	3/4	2,344.19
2		2	5,140.21	2	4,820.47	2	4,487.51	2	4,140.72	2	3,781.80	2	3,420.55	2	3,059.29	2	2,698.03	2	2,336.66
1/4		1/4	5,133.90	1/4	4,813.70	1/4	4,480.43	1/4	4,133.36	1/4	3,774.28	1/4	3,413.02	1/4	3,051.76	1/4	2,690.51	1/4	2,329.14
1/2		1/2	5,126.73	1/2	4,806.90	1/2	4,473.32	1/2	4,125.98	1/2	3,766.75	1/2	3,405.49	1/2	3,044.24	1/2	2,682.98	1/2	2,321.61
3/4		3/4	5,119.56	3/4	4,800.10	3/4	4,466.22	3/4	4,118.60	3/4	3,759.23	3/4	3,397.97	3/4	3,036.71	3/4	2,675.45	3/4	2,314.08
3		3	5,112.38	3	4,793.30	3	4,459.11	3	4,111.22	3	3,751.70	3	3,390.44	3	3,029.18	3	2,667.93	3	2,306.55
1/4		1/4	5,105.21	1/4	4,786.50	1/4	4,452.01	1/4	4,103.84	1/4	3,744.17	1/4	3,382.92	1/4	3,021.66	1/4	2,660.40	1/4	2,299.02
1/2		1/2	5,098.73	1/2	4,779.68	1/2	4,444.88	1/2	4,096.44	1/2	3,736.65	1/2	3,375.39	1/2	3,014.13	1/2	2,652.87	1/2	2,291.49
3/4		3/4	5,092.25	3/4	4,772.85	3/4	4,437.75	3/4	4,089.04	3/4	3,729.12	3/4	3,367.86	3/4	3,006.61	3/4	2,645.35	3/4	2,283.96
4		4	5,085.78	4	4,766.03	4	4,430.63	4	4,081.63	4	3,721.59	4	3,360.34	4	2,999.08	4	2,637.82	4	2,276.43
1/4		1/4	5,079.30	1/4	4,759.21	1/4	4,423.50	1/4	4,074.23	1/4	3,714.07	1/4	3,352.81	1/4	2,991.55	1/4	2,630.30	1/4	2,268.90
1/2		1/2	5,072.80	1/2	4,752.36	1/2	4,416.35	1/2	4,066.80	1/2	3,706.54	1/2	3,345.28	1/2	2,984.03	1/2	2,622.77	1/2	2,261.38
3/4		3/4	5,066.30	3/4	4,745.52	3/4	4,409.20	3/4	4,059.38	3/4	3,699.02	3/4	3,337.76	3/4	2,976.50	3/4	2,615.24	3/4	2,253.85
5		5	5,059.80	5	4,738.67	5	4,402.05	5	4,051.95	5	3,691.49	5	3,330.23	5	2,968.97	5	2,607.71	5	2,246.32
1/4		1/4	5,053.30	1/4	4,731.83	1/4	4,394.90	1/4	4,044.53	1/4	3,683.96	1/4	3,322.71	1/4	2,961.45	1/4	2,600.18	1/4	2,238.79
1/2		1/2	5,046.77	1/2	4,724.96	1/2	4,387.73	1/2	4,037.08	1/2	3,676.44	1/2	3,315.18	1/2	2,953.92	1/2	2,592.65	1/2	2,231.26
3/4		3/4	5,040.25	3/4	4,718.09	3/4	4,380.55	3/4	4,029.63	3/4	3,668.91	3/4	3,307.65	3/4	2,946.40	3/4	2,585.12	3/4	2,223.73
6		6	5,033.72	6	4,711.22	6	4,373.38	6	4,022.18	6	3,661.39	6	3,300.13	6	2,938.87	6	2,577.59	6	2,216.20
1/4		1/4	5,027.20	1/4	4,704.35	1/4	4,366.21	1/4	4,014.73	1/4	3,653.86	1/4	3,292.60	1/4	2,931.34	1/4	2,570.06	1/4	2,208.67
1/2		1/2	5,020.65	1/2	4,697.46	1/2	4,359.01	1/2	4,007.26	1/2	3,646.33	1/2	3,285.08	1/2	2,923.82	1/2	2,562.53	1/2	2,201.14
3/4		3/4	5,014.11	3/4	4,690.56	3/4	4,351.81	3/4	3,999.79	3/4	3,638.81	3/4	3,277.55	3/4	2,916.29	3/4	2,555.00	3/4	2,193.62
7		7	5,007.56	7	4,683.67	7	4,344.62	7	3,992.32	7	3,631.28	7	3,270.02	7	2,908.77	7	2,547.47	7	2,186.09
1/4		1/4	5,001.01	1/4	4,676.77	1/4	4,337.42	1/4	3,984.85	1/4	3,623.75	1/4	3,262.50	1/4	2,901.24	1/4	2,539.94	1/4	2,178.56
1/2		1/2	4,994.44	1/2	4,669.83	1/2	4,330.20	1/2	3,977.35	1/2	3,616.23	1/2	3,254.97	1/2	2,893.71	1/2	2,532.42	1/2	2,171.03
3/4		3/4	4,987.87	3/4	4,662.89	3/4	4,322.98	3/4	3,969.86	3/4	3,608.70	3/4	3,247.44	3/4	2,886.19	3/4	2,524.89	3/4	2,163.50
8		8	4,981.31	8	4,655.94	8	4,315.77	8	3,962.36	8	3,601.18	8	3,239.92	8	2,878.66	8	2,517.36	8	2,155.97
1/4		1/4	4,974.74	1/4	4,649.00	1/4	4,308.55	1/4	3,954.87	1/4	3,593.65	1/4	3,232.39	1/4	2,871.13	1/4	2,509.83	1/4	2,148.44
1/2		1/2	4,968.13	1/2	4,642.03	1/2	4,301.30	1/2	3,947.35	1/2	3,586.12	1/2	3,224.87	1/2	2,863.61	1/2	2,502.30	1/2	2,140.91
3/4		3/4	4,961.53	3/4	4,635.07	3/4	4,294.06	3/4	3,939.83	3/4	3,578.60	3/4	3,217.34	3/4	2,856.08	3/4	2,494.77	3/4	2,133.38
9		9	4,954.93	9	4,628.10	9	4,286.82	9	3,932.32	9	3,571.07	9	3,209.81	9	2,848.56	9	2,487.24	9	2,125.86
1/4		1/4	4,948.33	1/4	4,621.13	1/4	4,279.58	1/4	3,924.80	1/4	3,563.54	1/4	3,202.29	1/4	2,841.03	1/4	2,479.71	1/4	2,118.33
1/2		1/2	4,941.64	1/2	4,614.14	1/2	4,272.31	1/2	3,917.28	1/2	3,556.02	1/2	3,194.76	1/2	2,833.50	1/2	2,472.18	1/2	2,110.80
3/4		3/4	4,934.95	3/4	4,607.15	3/4	4,265.05	3/4	3,909.75	3/4	3,548.49	3/4	3,187.23	3/4	2,825.98	3/4	2,464.66	3/4	2,103.27
10		10	4,928.27	10	4,600.16	10	4,257.78	10	3,902.22	10	3,540.97	10	3,179.71	10	2,818.45	10	2,457.13	10	2,095.74
1/4		1/4	4,921.58	1/4	4,593.18	1/4	4,250.52	1/4	3,894.70	1/4	3,533.44	1/4	3,172.18	1/4	2,810.92	1/4	2,449.60	1/4	2,088.21
1/2		1/2	4,914.87	1/2	4,586.16	1/2	4,243.23	1/2	3,887.17	1/2	3,525.91	1/2	3,164.66	1/2	2,803.40	1/2	2,442.07	1/2	2,080.68
3/4		3/4	4,908.16	3/4	4,579.15	3/4	4,235.94	3/4	3,879.64	3/4	3,518.39	3/4	3,157.13	3/4	2,795.87	3/4	2,434.54	3/4	2,073.15
11		11	4,901.45	11	4,572.14	11	4,228.65	11	3,872.12	11	3,510.86	11	3,149.60	11	2,788.35	11	2,427.01	11	2,065.62
1/4		1/4	4,894.74	1/4	4,565.13	1/4	4,221.37	1/4	3,864.59	1/4	3,503.33	1/4	3,142.08	1/4	2,780.82	1/4	2,419.48	1/4	2,058.10
1/2		1/2	4,888.01	1/2	4,558.09	1/2	4,214.06	1/2	3,857.07	1/2	3,495.81	1/2	3,134.55	1/2	2,773.29	1/2	2,411.95	1/2	2,050.57
3/4		3/4	4,881.28	3/4	4,551.05	3/4	4,206.74	3/4	3,849.54	3/4	3,488.28	3/4	3,127.02	3/4	2,765.77	3/4	2,404.42	3/4	2,043.04

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 TO TOP LIP OF 2" DIAMETER "HERMETIC" VALVE

GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HSM 3149"

2 STBD

ULLAGE TABLE

HERMETIC

GAUGE HEIGHT 15'-08 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 US 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	2,035.51	0	1,674.12	0	1,312.73	0	964.86	0	606.35	0	244.97	0		0		0		0	
1/4	2,027.98	1/4	1,666.59	1/4	1,305.21	1/4	957.67	1/4	598.82	1/4	237.45	1/4		1/4		1/4		1/4	
1/2	2,020.45	1/2	1,659.06	1/2	1,297.68	1/2	950.49	1/2	591.29	1/2	229.92	1/2		1/2		1/2		1/2	
3/4	2,012.92	3/4	1,651.53	3/4	1,290.15	3/4	943.30	3/4	583.77	3/4	222.39	3/4		3/4		3/4		3/4	
1	2,005.39	1	1,644.01	1	1,282.62	1	936.11	1	576.24	1	214.86	1		1		1		1	
1/4	1,997.86	1/4	1,636.48	1/4	1,275.09	1/4	928.92	1/4	568.71	1/4	207.33	1/4		1/4		1/4		1/4	
1/2	1,990.34	1/2	1,628.95	1/2	1,267.60	1/2	921.69	1/2	561.18	1/2	199.80	1/2		1/2		1/2		1/2	
3/4	1,982.81	3/4	1,621.42	3/4	1,260.11	3/4	914.45	3/4	553.65	3/4	192.27	3/4		3/4		3/4		3/4	
2	1,975.28	2	1,613.89	2	1,252.63	2	907.21	2	546.12	2	184.74	2		2		2		2	
1/4	1,967.75	1/4	1,606.36	1/4	1,245.14	1/4	899.97	1/4	538.59	1/4	177.22	1/4		1/4		1/4		1/4	
1/2	1,960.22	1/2	1,598.83	1/2	1,237.94	1/2	892.44	1/2	531.06	1/2	169.69	1/2		1/2		1/2		1/2	
3/4	1,952.69	3/4	1,591.30	3/4	1,230.75	3/4	884.91	3/4	523.54	3/4	162.16	3/4		3/4		3/4		3/4	
3	1,945.16	3	1,583.77	3	1,223.55	3	877.38	3	516.01	3	154.63	3		3		3		3	
1/4	1,937.63	1/4	1,576.25	1/4	1,216.35	1/4	869.86	1/4	508.48	1/4	147.10	1/4		1/4		1/4		1/4	
1/2	1,930.10	1/2	1,568.72	1/2	1,209.17	1/2	862.33	1/2	500.95	1/2	139.57	1/2		1/2		1/2		1/2	
3/4	1,922.58	3/4	1,561.19	3/4	1,201.98	3/4	854.80	3/4	493.42	3/4	132.04	3/4		3/4		3/4		3/4	
4	1,915.05	4	1,553.66	4	1,194.80	4	847.27	4	485.89	4	124.51	4		4		4		4	
1/4	1,907.52	1/4	1,546.13	1/4	1,187.61	1/4	839.74	1/4	478.36	1/4	116.99	1/4		1/4		1/4		1/4	
1/2	1,899.99	1/2	1,538.60	1/2	1,180.43	1/2	832.21	1/2	470.83	1/2	109.54	1/2		1/2		1/2		1/2	
3/4	1,892.46	3/4	1,531.07	3/4	1,173.24	3/4	824.68	3/4	463.31	3/4	102.09	3/4		3/4		3/4		3/4	
5	1,884.93	5	1,523.54	5	1,166.05	5	817.16	5	455.78	5	94.64	5		5		5		5	
1/4	1,877.40	1/4	1,516.01	1/4	1,158.87	1/4	809.63	1/4	448.25	1/4	87.19	1/4		1/4		1/4		1/4	
1/2	1,869.87	1/2	1,508.49	1/2	1,151.68	1/2	802.10	1/2	440.72	1/2	80.44	1/2		1/2		1/2		1/2	
3/4	1,862.34	3/4	1,500.96	3/4	1,144.50	3/4	794.57	3/4	433.19	3/4	73.70	3/4		3/4		3/4		3/4	
6	1,854.81	6	1,493.43	6	1,137.31	6	787.04	6	425.66	6	66.95	6		6		6		6	
1/4	1,847.29	1/4	1,485.90	1/4	1,130.13	1/4	779.51	1/4	418.13	1/4	60.21	1/4		1/4		1/4		1/4	
1/2	1,839.76	1/2	1,478.37	1/2	1,122.94	1/2	771.98	1/2	410.61	1/2	54.72	1/2		1/2		1/2		1/2	
3/4	1,832.23	3/4	1,470.84	3/4	1,115.76	3/4	764.45	3/4	403.08	3/4	49.23	3/4		3/4		3/4		3/4	
7	1,824.70	7	1,463.31	7	1,108.57	7	756.93	7	395.55	7	43.74	7		7		7		7	
1/4	1,817.17	1/4	1,455.78	1/4	1,101.38	1/4	749.40	1/4	388.02	1/4	38.25	1/4		1/4		1/4		1/4	
1/2	1,809.64	1/2	1,448.25	1/2	1,094.20	1/2	741.87	1/2	380.49	1/2	34.02	1/2		1/2		1/2		1/2	
3/4	1,802.11	3/4	1,440.73	3/4	1,087.01	3/4	734.34	3/4	372.96	3/4	29.79	3/4		3/4		3/4		3/4	
8	1,794.58	8	1,433.20	8	1,079.83	8	726.81	8	365.43	8	25.55	8		8		8		8	
1/4	1,787.05	1/4	1,425.67	1/4	1,072.64	1/4	719.28	1/4	357.90	1/4	21.32	1/4		1/4		1/4		1/4	
1/2	1,779.53	1/2	1,418.14	1/2	1,065.46	1/2	711.75	1/2	350.38	1/2		1/2		1/2		1/2		1/2	
3/4	1,772.00	3/4	1,410.61	3/4	1,058.27	3/4	704.22	3/4	342.85	3/4		3/4		3/4		3/4		3/4	
9	1,764.47	9	1,403.08	9	1,051.09	9	696.70	9	335.32	9		9		9		9		9	
1/4	1,756.94	1/4	1,395.55	1/4	1,043.90	1/4	689.17	1/4	327.79	1/4		1/4		1/4		1/4		1/4	
1/2	1,749.41	1/2	1,388.02	1/2	1,036.71	1/2	681.64	1/2	320.26	1/2		1/2		1/2		1/2		1/2	
3/4	1,741.88	3/4	1,380.49	3/4	1,029.53	3/4	674.11	3/4	312.73	3/4		3/4		3/4		3/4		3/4	
10	1,734.35	10	1,372.97	10	1,022.34	10	666.58	10	305.20	10		10		10		10		10	
1/4	1,726.82	1/4	1,365.44	1/4	1,015.16	1/4	659.05	1/4	297.67	1/4		1/4		1/4		1/4		1/4	
1/2	1,719.29	1/2	1,357.91	1/2	1,007.97	1/2	651.52	1/2	290.15	1/2		1/2		1/2		1/2		1/2	
3/4	1,711.77	3/4	1,350.38	3/4	1,000.79	3/4	644.00	3/4	282.62	3/4		3/4		3/4		3/4		3/4	
11	1,704.24	11	1,342.85	11	993.60	11	636.47	11	275.09	11		11		11		11		11	
1/4	1,696.71	1/4	1,335.32	1/4	986.41	1/4	628.94	1/4	267.56	1/4		1/4		1/4		1/4		1/4	
1/2	1,689.18	1/2	1,327.79	1/2	979.23	1/2	621.41	1/2	260.03	1/2		1/2		1/2		1/2		1/2	
3/4	1,681.65	3/4	1,320.26	3/4	972.04	3/4	613.88	3/4	252.50	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/15/2023 JS
CALCULATED: 02/16/2023 CL
PRINTED: 02/17/2023 JS

PRECISION MEASUREMENT
& ANALYSIS, INC.
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CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2023



BARGE "HSM 3149"

3 PORT

ULLAGE TABLE

HERMETIC

GAUGE HEIGHT 15'-08 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 US 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	4,257.44	0	4,080.07	0	3,895.14	0	3,703.27	0	3,503.94	0	3,145.10	0	2,784.99	0	2,424.26
1/4		1/4		1/4	4,253.82	1/4	4,076.28	1/4	3,891.21	1/4	3,699.22	1/4	3,496.46	1/4	3,137.60	1/4	2,777.48	1/4	2,416.74
1/2		1/2		1/2	4,250.20	1/2	4,072.50	1/2	3,887.29	1/2	3,695.18	1/2	3,488.98	1/2	3,130.10	1/2	2,769.96	1/2	2,409.23
3/4		3/4	4,407.49	3/4	4,246.58	3/4	4,068.72	3/4	3,883.36	3/4	3,691.13	3/4	3,481.49	3/4	3,122.60	3/4	2,762.45	3/4	2,401.71
1		1	4,405.83	1	4,242.95	1	4,064.93	1	3,879.41	1	3,687.09	1	3,474.01	1	3,115.10	1	2,754.93	1	2,394.20
1/4		1/4	4,404.18	1/4	4,239.32	1/4	4,061.13	1/4	3,875.47	1/4	3,683.04	1/4	3,466.53	1/4	3,107.59	1/4	2,747.42	1/4	2,386.68
1/2		1/2	4,402.52	1/2	4,235.69	1/2	4,057.34	1/2	3,871.53	1/2	3,679.00	1/2	3,459.04	1/2	3,100.09	1/2	2,739.90	1/2	2,379.16
3/4		3/4	4,400.87	3/4	4,232.06	3/4	4,053.54	3/4	3,867.59	3/4	3,674.95	3/4	3,451.56	3/4	3,092.59	3/4	2,732.39	3/4	2,371.65
2		2	4,397.99	2	4,228.41	2	4,049.74	2	3,863.63	2	3,670.91	2	3,444.08	2	3,085.09	2	2,724.87	2	2,364.13
1/4		1/4	4,395.11	1/4	4,224.77	1/4	4,045.93	1/4	3,859.68	1/4	3,666.86	1/4	3,436.59	1/4	3,077.59	1/4	2,717.36	1/4	2,356.62
1/2		1/2	4,392.23	1/2	4,221.12	1/2	4,042.13	1/2	3,855.73	1/2	3,662.82	1/2	3,429.11	1/2	3,070.08	1/2	2,709.84	1/2	2,349.10
3/4		3/4	4,389.36	3/4	4,217.48	3/4	4,038.32	3/4	3,851.77	3/4	3,658.77	3/4	3,421.63	3/4	3,062.58	3/4	2,702.33	3/4	2,341.58
3		3	4,385.56	3	4,213.82	3	4,034.50	3	3,847.80	3	3,654.73	3	3,414.15	3	3,055.08	3	2,694.82	3	2,334.07
1/4		1/4	4,381.77	1/4	4,210.17	1/4	4,030.68	1/4	3,843.84	1/4	3,650.68	1/4	3,406.66	1/4	3,047.58	1/4	2,687.30	1/4	2,326.55
1/2		1/2	4,377.98	1/2	4,206.51	1/2	4,026.86	1/2	3,839.87	1/2	3,646.64	1/2	3,399.18	1/2	3,040.08	1/2	2,679.79	1/2	2,319.04
3/4		3/4	4,374.19	3/4	4,202.86	3/4	4,023.04	3/4	3,835.90	3/4	3,642.59	3/4	3,391.70	3/4	3,032.58	3/4	2,672.27	3/4	2,311.52
4		4	4,370.70	4	4,199.19	4	4,019.21	4	3,831.93	4	3,638.55	4	3,384.21	4	3,025.07	4	2,664.76	4	2,304.00
1/4		1/4	4,367.22	1/4	4,195.52	1/4	4,015.38	1/4	3,827.95	1/4	3,634.50	1/4	3,376.73	1/4	3,017.57	1/4	2,657.24	1/4	2,296.49
1/2		1/2	4,363.74	1/2	4,191.85	1/2	4,011.55	1/2	3,823.97	1/2	3,630.46	1/2	3,369.25	1/2	3,010.07	1/2	2,649.73	1/2	2,288.97
3/4		3/4	4,360.26	3/4	4,188.18	3/4	4,007.72	3/4	3,819.99	3/4	3,626.41	3/4	3,361.76	3/4	3,002.57	3/4	2,642.21	3/4	2,281.46
5		5	4,356.76	5	4,184.50	5	4,003.88	5	3,816.00	5	3,622.36	5	3,354.28	5	2,995.07	5	2,634.70	5	2,273.94
1/4		1/4	4,353.27	1/4	4,180.82	1/4	4,000.03	1/4	3,812.01	1/4	3,618.32	1/4	3,346.80	1/4	2,987.57	1/4	2,627.19	1/4	2,266.42
1/2		1/2	4,349.78	1/2	4,177.14	1/2	3,996.19	1/2	3,808.02	1/2	3,614.27	1/2	3,339.32	1/2	2,980.06	1/2	2,619.67	1/2	2,258.91
3/4		3/4	4,346.28	3/4	4,173.46	3/4	3,992.35	3/4	3,804.02	3/4	3,610.23	3/4	3,331.84	3/4	2,972.56	3/4	2,612.16	3/4	2,251.39
6		6	4,342.78	6	4,169.77	6	3,988.49	6	3,800.02	6	3,606.18	6	3,324.37	6	2,965.06	6	2,604.64	6	2,243.88
1/4		1/4	4,339.27	1/4	4,166.07	1/4	3,984.64	1/4	3,796.02	1/4	3,602.14	1/4	3,316.91	1/4	2,957.56	1/4	2,597.13	1/4	2,236.36
1/2		1/2	4,335.76	1/2	4,162.38	1/2	3,980.78	1/2	3,792.01	1/2	3,598.09	1/2	3,309.44	1/2	2,950.06	1/2	2,589.61	1/2	2,228.84
3/4		3/4	4,332.26	3/4	4,158.69	3/4	3,976.93	3/4	3,788.01	3/4	3,594.05	3/4	3,301.97	3/4	2,942.55	3/4	2,582.10	3/4	2,221.33
7		7	4,328.74	7	4,154.98	7	3,973.06	7	3,783.99	7	3,590.00	7	3,294.50	7	2,935.05	7	2,574.58	7	2,213.81
1/4		1/4	4,325.22	1/4	4,151.27	1/4	3,969.19	1/4	3,779.98	1/4	3,585.96	1/4	3,287.04	1/4	2,927.55	1/4	2,567.06	1/4	2,206.30
1/2		1/2	4,321.70	1/2	4,147.57	1/2	3,965.32	1/2	3,775.96	1/2	3,581.91	1/2	3,279.57	1/2	2,920.05	1/2	2,559.55	1/2	2,198.78
3/4		3/4	4,318.18	3/4	4,143.86	3/4	3,961.45	3/4	3,771.95	3/4	3,577.87	3/4	3,272.10	3/4	2,912.55	3/4	2,552.03	3/4	2,191.26
8		8	4,314.65	8	4,140.13	8	3,957.57	8	3,767.92	8	3,573.82	8	3,264.63	8	2,905.05	8	2,544.52	8	2,183.75
1/4		1/4	4,311.12	1/4	4,136.39	1/4	3,953.69	1/4	3,763.89	1/4	3,569.78	1/4	3,257.17	1/4	2,897.54	1/4	2,537.00	1/4	2,176.23
1/2		1/2	4,307.59	1/2	4,132.66	1/2	3,949.81	1/2	3,759.86	1/2	3,565.73	1/2	3,249.70	1/2	2,890.04	1/2	2,529.48	1/2	2,168.72
3/4		3/4	4,304.06	3/4	4,128.93	3/4	3,945.93	3/4	3,755.83	3/4	3,561.69	3/4	3,242.23	3/4	2,882.54	3/4	2,521.97	3/4	2,161.20
9		9	4,300.51	9	4,125.19	9	3,942.04	9	3,751.79	9	3,557.64	9	3,234.76	9	2,875.04	9	2,514.45	9	2,153.68
1/4		1/4	4,296.96	1/4	4,121.44	1/4	3,938.15	1/4	3,747.75	1/4	3,553.60	1/4	3,227.30	1/4	2,867.54	1/4	2,506.94	1/4	2,146.17
1/2		1/2	4,293.41	1/2	4,117.70	1/2	3,934.26	1/2	3,743.72	1/2	3,549.55	1/2	3,219.83	1/2	2,860.03	1/2	2,499.42	1/2	2,138.65
3/4		3/4	4,289.86	3/4	4,113.95	3/4	3,930.36	3/4	3,739.68	3/4	3,545.51	3/4	3,212.36	3/4	2,852.53	3/4	2,491.90	3/4	2,131.14
10		10	4,286.27	10	4,110.19	10	3,926.46	10	3,735.63	10	3,541.46	10	3,204.89	10	2,845.03	10	2,484.39	10	2,123.62
1/4		1/4	4,282.67	1/4	4,106.44	1/4	3,922.55	1/4	3,731.59	1/4	3,537.42	1/4	3,197.42	1/4	2,837.53	1/4	2,476.87	1/4	2,116.10
1/2		1/2	4,279.08	1/2	4,102.68	1/2	3,918.65	1/2	3,727.54	1/2	3,533.37	1/2	3,189.96	1/2	2,830.03	1/2	2,469.36	1/2	2,108.59
3/4		3/4	4,275.48	3/4	4,098.92	3/4	3,914.74	3/4	3,723.49	3/4	3,529.33	3/4	3,182.49	3/4	2,822.53	3/4	2,461.84	3/4	2,101.07
11		11	4,271.88	11	4,095.15	11	3,910.83	11	3,719.45	11	3,524.85	11	3,175.02	11	2,815.02	11	2,454.32	11	2,093.56
1/4		1/4	4,268.27	1/4	4,091.39	1/4	3,906.91	1/4	3,715.40	1/4	3,520.37	1/4	3,167.55	1/4	2,807.52	1/4	2,446.81	1/4	2,086.04
1/2		1/2	4,264.66	1/2	4,087.62	1/2	3,902.99	1/2	3,711.36	1/2	3,515.90	1/2	3,160.08	1/2	2,800.01	1/2	2,439.29	1/2	2,078.52
3/4		3/4	4,261.06	3/4	4,083.85	3/4	3,899.07	3/4	3,707.31	3/4	3,511.42	3/4	3,152.60	3/4	2,792.51	3/4	2,431.78	3/4	2,071.01

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" DIAMETER "HERMETIC" VALVE

GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 55'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HSM 3149"

3 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

GAUGE HEIGHT 15'-08 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	2,063.49	0	1,702.64	0	1,341.79	0	981.23	0	620.48	0	259.64	0		0		0		0	
1/4	2,055.97	1/4	1,695.12	1/4	1,334.27	1/4	973.72	1/4	612.96	1/4	252.12	1/4		1/4		1/4		1/4	
1/2	2,048.46	1/2	1,687.61	1/2	1,326.76	1/2	966.22	1/2	605.44	1/2	244.61	1/2		1/2		1/2		1/2	
3/4	2,040.94	3/4	1,680.09	3/4	1,319.24	3/4	958.71	3/4	597.93	3/4	237.09	3/4		3/4		3/4		3/4	
1	2,033.42	1	1,672.57	1	1,311.72	1	951.20	1	590.41	1	229.57	1		1		1		1	
1/4	2,025.90	1/4	1,665.05	1/4	1,304.20	1/4	943.69	1/4	582.89	1/4	222.06	1/4		1/4		1/4		1/4	
1/2	2,018.39	1/2	1,657.54	1/2	1,296.69	1/2	936.18	1/2	575.37	1/2	214.54	1/2		1/2		1/2		1/2	
3/4	2,010.87	3/4	1,650.02	3/4	1,289.17	3/4	928.67	3/4	567.86	3/4	207.02	3/4		3/4		3/4		3/4	
2	2,003.35	2	1,642.50	2	1,281.65	2	921.16	2	560.34	2	199.50	2		2		2		2	
1/4	1,995.83	1/4	1,634.98	1/4	1,274.13	1/4	913.65	1/4	552.82	1/4	191.99	1/4		1/4		1/4		1/4	
1/2	1,988.31	1/2	1,627.46	1/2	1,266.62	1/2	906.13	1/2	545.30	1/2	184.47	1/2		1/2		1/2		1/2	
3/4	1,980.80	3/4	1,619.95	3/4	1,259.10	3/4	898.62	3/4	537.79	3/4	176.95	3/4		3/4		3/4		3/4	
3	1,973.28	3	1,612.43	3	1,251.58	3	891.10	3	530.27	3	169.43	3		3		3		3	
1/4	1,965.76	1/4	1,604.91	1/4	1,244.06	1/4	883.59	1/4	522.75	1/4	161.92	1/4		1/4		1/4		1/4	
1/2	1,958.24	1/2	1,597.39	1/2	1,236.55	1/2	876.07	1/2	515.23	1/2	154.40	1/2		1/2		1/2		1/2	
3/4	1,950.73	3/4	1,589.88	3/4	1,229.03	3/4	868.55	3/4	507.72	3/4	146.88	3/4		3/4		3/4		3/4	
4	1,943.21	4	1,582.36	4	1,221.51	4	861.03	4	500.20	4	139.36	4		4		4		4	
1/4	1,935.69	1/4	1,574.84	1/4	1,214.00	1/4	853.52	1/4	492.68	1/4	131.85	1/4		1/4		1/4		1/4	
1/2	1,928.17	1/2	1,567.32	1/2	1,206.49	1/2	846.00	1/2	485.16	1/2	124.33	1/2		1/2		1/2		1/2	
3/4	1,920.66	3/4	1,559.81	3/4	1,198.97	3/4	838.48	3/4	477.65	3/4	116.81	3/4		3/4		3/4		3/4	
5	1,913.14	5	1,552.29	5	1,191.46	5	830.96	5	470.13	5	109.37	5		5		5		5	
1/4	1,905.62	1/4	1,544.77	1/4	1,183.96	1/4	823.45	1/4	462.61	1/4	101.93	1/4		1/4		1/4		1/4	
1/2	1,898.10	1/2	1,537.25	1/2	1,176.45	1/2	815.93	1/2	455.09	1/2	94.49	1/2		1/2		1/2		1/2	
3/4	1,890.58	3/4	1,529.73	3/4	1,168.94	3/4	808.41	3/4	447.58	3/4	87.06	3/4		3/4		3/4		3/4	
6	1,883.07	6	1,522.22	6	1,161.43	6	800.89	6	440.06	6	80.32	6		6		6		6	
1/4	1,875.55	1/4	1,514.70	1/4	1,153.92	1/4	793.38	1/4	432.54	1/4	73.59	1/4		1/4		1/4		1/4	
1/2	1,868.03	1/2	1,507.18	1/2	1,146.42	1/2	785.86	1/2	425.02	1/2	66.85	1/2		1/2		1/2		1/2	
3/4	1,860.51	3/4	1,499.66	3/4	1,138.91	3/4	778.34	3/4	417.51	3/4	60.12	3/4		3/4		3/4		3/4	
7	1,853.00	7	1,492.15	7	1,131.40	7	770.83	7	409.99	7	54.64	7		7		7		7	
1/4	1,845.48	1/4	1,484.63	1/4	1,123.89	1/4	763.31	1/4	402.47	1/4	49.16	1/4		1/4		1/4		1/4	
1/2	1,837.96	1/2	1,477.11	1/2	1,116.38	1/2	755.79	1/2	394.96	1/2	43.68	1/2		1/2		1/2		1/2	
3/4	1,830.44	3/4	1,469.59	3/4	1,108.87	3/4	748.27	3/4	387.44	3/4	38.20	3/4		3/4		3/4		3/4	
8	1,822.93	8	1,462.08	8	1,101.37	8	740.76	8	379.92	8	33.97	8		8		8		8	
1/4	1,815.41	1/4	1,454.56	1/4	1,093.86	1/4	733.24	1/4	372.40	1/4	29.74	1/4		1/4		1/4		1/4	
1/2	1,807.89	1/2	1,447.04	1/2	1,086.35	1/2	725.72	1/2	364.89	1/2	25.51	1/2		1/2		1/2		1/2	
3/4	1,800.37	3/4	1,439.52	3/4	1,078.84	3/4	718.20	3/4	357.37	3/4	21.29	3/4		3/4		3/4		3/4	
9	1,792.85	9	1,432.00	9	1,071.33	9	710.69	9	349.85	9		9		9		9		9	
1/4	1,785.34	1/4	1,424.49	1/4	1,063.82	1/4	703.17	1/4	342.33	1/4		1/4		1/4		1/4		1/4	
1/2	1,777.82	1/2	1,416.97	1/2	1,056.32	1/2	695.65	1/2	334.82	1/2		1/2		1/2		1/2		1/2	
3/4	1,770.30	3/4	1,409.45	3/4	1,048.81	3/4	688.13	3/4	327.30	3/4		3/4		3/4		3/4		3/4	
10	1,762.78	10	1,401.93	10	1,041.30	10	680.62	10	319.78	10		10		10		10		10	
1/4	1,755.27	1/4	1,394.42	1/4	1,033.79	1/4	673.10	1/4	312.26	1/4		1/4		1/4		1/4		1/4	
1/2	1,747.75	1/2	1,386.90	1/2	1,026.28	1/2	665.58	1/2	304.75	1/2		1/2		1/2		1/2		1/2	
3/4	1,740.23	3/4	1,379.38	3/4	1,018.77	3/4	658.06	3/4	297.23	3/4		3/4		3/4		3/4		3/4	
11	1,732.71	11	1,371.86	11	1,011.27	11	650.55	11	289.71	11		11		11		11		11	
1/4	1,725.19	1/4	1,364.35	1/4	1,003.76	1/4	643.03	1/4	282.19	1/4		1/4		1/4		1/4		1/4	
1/2	1,717.68	1/2	1,356.83	1/2	996.25	1/2	635.51	1/2	274.68	1/2		1/2		1/2		1/2		1/2	
3/4	1,710.16	3/4	1,349.31	3/4	988.74	3/4	627.99	3/4	267.16	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/15/2023 JS
CALCULATED: 02/16/2023 CL
PRINTED: 02/17/2023 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2023

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



BARGE "HSM 3149"

3 STBD

ULLAGE TABLE

HERMETIC

GAUGE HEIGHT 15'-09"

CAPACITIES GIVEN IN BARRELS OF 42 US 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	4,226.22	0	4,050.07	0	3,866.37	0	3,675.69	0	3,480.88	0	3,123.34	0	2,764.72	0	2,405.26
1/4		1/4		1/4	4,222.63	1/4	4,046.31	1/4	3,862.46	1/4	3,671.66	1/4	3,473.43	1/4	3,115.87	1/4	2,757.23	1/4	2,397.77
1/2		1/2		1/2	4,219.03	1/2	4,042.55	1/2	3,858.56	1/2	3,667.64	1/2	3,465.97	1/2	3,108.39	1/2	2,749.74	1/2	2,390.28
3/4		3/4		3/4	4,215.43	3/4	4,038.80	3/4	3,854.65	3/4	3,663.62	3/4	3,458.51	3/4	3,100.92	3/4	2,742.25	3/4	2,382.79
1		1	4,371.71	1	4,211.83	1	4,035.04	1	3,850.74	1	3,659.60	1	3,451.06	1	3,093.44	1	2,734.76	1	2,375.30
1/4		1/4	4,370.07	1/4	4,208.23	1/4	4,031.26	1/4	3,846.82	1/4	3,655.57	1/4	3,443.60	1/4	3,085.97	1/4	2,727.27	1/4	2,367.81
1/2		1/2	4,368.44	1/2	4,204.62	1/2	4,027.49	1/2	3,842.90	1/2	3,651.55	1/2	3,436.15	1/2	3,078.50	1/2	2,719.78	1/2	2,360.32
3/4		3/4	4,366.80	3/4	4,201.01	3/4	4,023.72	3/4	3,838.98	3/4	3,647.53	3/4	3,428.69	3/4	3,071.02	3/4	2,712.29	3/4	2,352.84
2		2	4,365.16	2	4,197.40	2	4,019.95	2	3,835.06	2	3,643.51	2	3,421.23	2	3,063.55	2	2,704.81	2	2,345.35
1/4		1/4	4,362.30	1/4	4,193.78	1/4	4,016.16	1/4	3,831.13	1/4	3,639.48	1/4	3,413.78	1/4	3,056.08	1/4	2,697.32	1/4	2,337.86
1/2		1/2	4,359.45	1/2	4,190.15	1/2	4,012.38	1/2	3,827.20	1/2	3,635.46	1/2	3,406.32	1/2	3,048.61	1/2	2,689.83	1/2	2,330.37
3/4		3/4	4,356.59	3/4	4,186.53	3/4	4,008.60	3/4	3,823.27	3/4	3,631.44	3/4	3,398.86	3/4	3,041.14	3/4	2,682.34	3/4	2,322.88
3		3	4,353.73	3	4,182.91	3	4,004.81	3	3,819.34	3	3,627.42	3	3,391.41	3	3,033.68	3	2,674.86	3	2,315.39
1/4		1/4	4,349.96	1/4	4,179.28	1/4	4,001.02	1/4	3,815.39	1/4	3,623.39	1/4	3,383.95	1/4	3,026.21	1/4	2,667.37	1/4	2,307.90
1/2		1/2	4,346.19	1/2	4,175.64	1/2	3,997.22	1/2	3,811.45	1/2	3,619.37	1/2	3,376.50	1/2	3,018.74	1/2	2,659.88	1/2	2,300.41
3/4		3/4	4,342.42	3/4	4,172.01	3/4	3,993.42	3/4	3,807.50	3/4	3,615.35	3/4	3,369.04	3/4	3,011.27	3/4	2,652.39	3/4	2,292.92
4		4	4,338.65	4	4,168.37	4	3,989.63	4	3,803.56	4	3,611.33	4	3,361.58	4	3,003.81	4	2,644.90	4	2,285.43
1/4		1/4	4,335.19	1/4	4,164.73	1/4	3,985.82	1/4	3,799.60	1/4	3,607.30	1/4	3,354.13	1/4	2,996.34	1/4	2,637.42	1/4	2,277.94
1/2		1/2	4,331.73	1/2	4,161.08	1/2	3,982.01	1/2	3,795.65	1/2	3,603.28	1/2	3,346.67	1/2	2,988.87	1/2	2,629.93	1/2	2,270.45
3/4		3/4	4,328.27	3/4	4,157.44	3/4	3,978.20	3/4	3,791.69	3/4	3,599.26	3/4	3,339.21	3/4	2,981.40	3/4	2,622.44	3/4	2,262.96
5		5	4,324.81	5	4,153.79	5	3,974.39	5	3,787.73	5	3,595.24	5	3,331.76	5	2,973.94	5	2,614.95	5	2,255.48
1/4		1/4	4,321.34	1/4	4,150.13	1/4	3,970.57	1/4	3,783.77	1/4	3,591.21	1/4	3,324.30	1/4	2,966.47	1/4	2,607.46	1/4	2,247.99
1/2		1/2	4,317.86	1/2	4,146.47	1/2	3,966.75	1/2	3,779.80	1/2	3,587.19	1/2	3,316.85	1/2	2,959.00	1/2	2,599.98	1/2	2,240.50
3/4		3/4	4,314.39	3/4	4,142.81	3/4	3,962.93	3/4	3,775.83	3/4	3,583.17	3/4	3,309.39	3/4	2,951.53	3/4	2,592.49	3/4	2,233.01
6		6	4,310.92	6	4,139.15	6	3,959.11	6	3,771.86	6	3,579.14	6	3,301.94	6	2,944.07	6	2,585.00	6	2,225.52
1/4		1/4	4,307.44	1/4	4,135.48	1/4	3,955.28	1/4	3,767.88	1/4	3,575.12	1/4	3,294.50	1/4	2,936.60	1/4	2,577.51	1/4	2,218.03
1/2		1/2	4,303.95	1/2	4,131.81	1/2	3,951.44	1/2	3,763.90	1/2	3,571.10	1/2	3,287.06	1/2	2,929.13	1/2	2,570.02	1/2	2,210.54
3/4		3/4	4,300.47	3/4	4,128.14	3/4	3,947.61	3/4	3,759.92	3/4	3,567.08	3/4	3,279.62	3/4	2,921.66	3/4	2,562.53	3/4	2,203.05
7		7	4,296.98	7	4,124.47	7	3,943.78	7	3,755.94	7	3,563.05	7	3,272.18	7	2,914.20	7	2,555.04	7	2,195.56
1/4		1/4	4,293.48	1/4	4,120.79	1/4	3,939.93	1/4	3,751.94	1/4	3,559.03	1/4	3,264.74	1/4	2,906.73	1/4	2,547.55	1/4	2,188.07
1/2		1/2	4,289.99	1/2	4,117.10	1/2	3,936.08	1/2	3,747.95	1/2	3,555.01	1/2	3,257.30	1/2	2,899.26	1/2	2,540.07	1/2	2,180.58
3/4		3/4	4,286.49	3/4	4,113.42	3/4	3,932.24	3/4	3,743.96	3/4	3,550.99	3/4	3,249.85	3/4	2,891.79	3/4	2,532.58	3/4	2,173.09
8		8	4,282.99	8	4,109.73	8	3,928.39	8	3,739.96	8	3,546.96	8	3,242.41	8	2,884.32	8	2,525.09	8	2,165.61
1/4		1/4	4,279.48	1/4	4,106.02	1/4	3,924.54	1/4	3,735.96	1/4	3,542.94	1/4	3,234.97	1/4	2,876.85	1/4	2,517.60	1/4	2,158.12
1/2		1/2	4,275.98	1/2	4,102.31	1/2	3,920.68	1/2	3,731.95	1/2	3,538.92	1/2	3,227.53	1/2	2,869.37	1/2	2,510.11	1/2	2,150.63
3/4		3/4	4,272.47	3/4	4,098.60	3/4	3,916.82	3/4	3,727.94	3/4	3,534.90	3/4	3,220.09	3/4	2,861.90	3/4	2,502.62	3/4	2,143.14
9		9	4,268.96	9	4,094.89	9	3,912.96	9	3,723.94	9	3,530.87	9	3,212.65	9	2,854.42	9	2,495.13	9	2,135.65
1/4		1/4	4,265.43	1/4	4,091.17	1/4	3,909.09	1/4	3,719.92	1/4	3,526.85	1/4	3,205.21	1/4	2,846.95	1/4	2,487.64	1/4	2,128.16
1/2		1/2	4,261.90	1/2	4,087.45	1/2	3,905.22	1/2	3,715.90	1/2	3,522.83	1/2	3,197.77	1/2	2,839.47	1/2	2,480.15	1/2	2,120.67
3/4		3/4	4,258.38	3/4	4,083.72	3/4	3,901.35	3/4	3,711.89	3/4	3,518.81	3/4	3,190.33	3/4	2,832.00	3/4	2,472.66	3/4	2,113.18
10		10	4,254.85	10	4,080.00	10	3,897.48	10	3,707.87	10	3,514.78	10	3,182.89	10	2,824.52	10	2,465.17	10	2,105.69
1/4		1/4	4,251.28	1/4	4,076.27	1/4	3,893.60	1/4	3,703.85	1/4	3,510.76	1/4	3,175.45	1/4	2,817.05	1/4	2,457.68	1/4	2,098.20
1/2		1/2	4,247.71	1/2	4,072.53	1/2	3,889.72	1/2	3,699.82	1/2	3,506.74	1/2	3,168.01	1/2	2,809.57	1/2	2,450.19	1/2	2,090.71
3/4		3/4	4,244.13	3/4	4,068.80	3/4	3,885.83	3/4	3,695.80	3/4	3,502.72	3/4	3,160.56	3/4	2,802.10	3/4	2,442.71	3/4	2,083.22
11		11	4,240.56	11	4,065.06	11	3,881.95	11	3,691.78	11	3,498.69	11	3,153.12	11	2,794.62	11	2,435.22	11	2,075.73
1/4		1/4	4,236.98	1/4	4,061.31	1/4	3,878.06	1/4	3,687.76	1/4	3,494.24	1/4	3,145.68	1/4	2,787.15	1/4	2,427.73	1/4	2,068.25
1/2		1/2	4,233.39	1/2	4,057.57	1/2	3,874.16	1/2	3,683.73	1/2	3,489.79	1/2	3,138.23	1/2	2,779.67	1/2	2,420.24	1/2	2,060.76
3/4		3/4	4,229.81	3/4	4,053.82	3/4	3,870.27	3/4	3,679.71	3/4	3,485.34	3/4	3,130.79	3/4	2,772.19	3/4	2,412.75	3/4	2,053.27

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" DIAMETER "HERMETIC" VALVE
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 55'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HSM 3149"

3 STBD

ULLAGE TABLE

HERMETIC

GAUGE HEIGHT 15'-09"

CAPACITIES GIVEN IN BARRELS OF 42 US 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	2,045.78	0	1,686.22	0	1,327.92	0	978.13	0	625.97	0	266.30	0		0		0		0	
1/4	2,038.29	1/4	1,678.72	1/4	1,320.49	1/4	970.97	1/4	618.48	1/4	258.81	1/4		1/4		1/4		1/4	
1/2	2,030.80	1/2	1,671.23	1/2	1,313.06	1/2	963.82	1/2	610.99	1/2	251.32	1/2		1/2		1/2		1/2	
3/4	2,023.31	3/4	1,663.74	3/4	1,305.63	3/4	956.66	3/4	603.49	3/4	243.82	3/4		3/4		3/4		3/4	
1	2,015.82	1	1,656.25	1	1,298.20	1	949.51	1	596.00	1	236.33	1		1		1		1	
1/4	2,008.33	1/4	1,648.76	1/4	1,290.77	1/4	942.35	1/4	588.51	1/4	228.84	1/4		1/4		1/4		1/4	
1/2	2,000.84	1/2	1,641.27	1/2	1,283.34	1/2	935.20	1/2	581.01	1/2	221.34	1/2		1/2		1/2		1/2	
3/4	1,993.35	3/4	1,633.78	3/4	1,275.91	3/4	928.04	3/4	573.52	3/4	213.85	3/4		3/4		3/4		3/4	
2	1,985.86	2	1,626.29	2	1,268.48	2	920.89	2	566.03	2	206.36	2		2		2		2	
1/4	1,978.36	1/4	1,618.80	1/4	1,261.05	1/4	913.72	1/4	558.53	1/4	198.86	1/4		1/4		1/4		1/4	
1/2	1,970.87	1/2	1,611.31	1/2	1,253.63	1/2	906.56	1/2	551.04	1/2	191.37	1/2		1/2		1/2		1/2	
3/4	1,963.38	3/4	1,603.81	3/4	1,246.20	3/4	899.40	3/4	543.55	3/4	183.88	3/4		3/4		3/4		3/4	
3	1,955.89	3	1,596.32	3	1,238.77	3	892.24	3	536.05	3	176.39	3		3		3		3	
1/4	1,948.40	1/4	1,588.83	1/4	1,231.36	1/4	885.06	1/4	528.56	1/4	168.89	1/4		1/4		1/4		1/4	
1/2	1,940.91	1/2	1,581.34	1/2	1,223.95	1/2	877.88	1/2	521.07	1/2	161.40	1/2		1/2		1/2		1/2	
3/4	1,933.42	3/4	1,573.85	3/4	1,216.54	3/4	870.70	3/4	513.57	3/4	153.90	3/4		3/4		3/4		3/4	
4	1,925.93	4	1,566.36	4	1,209.12	4	863.52	4	506.08	4	146.41	4		4		4		4	
1/4	1,918.44	1/4	1,558.87	1/4	1,201.71	1/4	856.33	1/4	498.59	1/4	138.91	1/4		1/4		1/4		1/4	
1/2	1,910.95	1/2	1,551.38	1/2	1,194.30	1/2	849.15	1/2	491.10	1/2	131.41	1/2		1/2		1/2		1/2	
3/4	1,903.45	3/4	1,543.89	3/4	1,186.88	3/4	841.96	3/4	483.60	3/4	123.92	3/4		3/4		3/4		3/4	
5	1,895.96	5	1,536.40	5	1,179.47	5	834.78	5	476.11	5	116.42	5		5		5		5	
1/4	1,888.47	1/4	1,528.90	1/4	1,172.07	1/4	827.54	1/4	468.62	1/4	109.00	1/4		1/4		1/4		1/4	
1/2	1,880.98	1/2	1,521.41	1/2	1,164.66	1/2	820.29	1/2	461.12	1/2	101.59	1/2		1/2		1/2		1/2	
3/4	1,873.49	3/4	1,513.92	3/4	1,157.26	3/4	813.05	3/4	453.63	3/4	94.17	3/4		3/4		3/4		3/4	
6	1,866.00	6	1,506.43	6	1,149.85	6	805.81	6	446.14	6	86.76	6		6		6		6	
1/4	1,858.51	1/4	1,498.95	1/4	1,142.70	1/4	798.31	1/4	438.64	1/4	80.06	1/4		1/4		1/4		1/4	
1/2	1,851.02	1/2	1,491.47	1/2	1,135.54	1/2	790.82	1/2	431.15	1/2	73.36	1/2		1/2		1/2		1/2	
3/4	1,843.53	3/4	1,483.98	3/4	1,128.39	3/4	783.33	3/4	423.66	3/4	66.65	3/4		3/4		3/4		3/4	
7	1,836.04	7	1,476.50	7	1,121.23	7	775.83	7	416.16	7	59.95	7		7		7		7	
1/4	1,828.54	1/4	1,469.07	1/4	1,114.08	1/4	768.34	1/4	408.67	1/4	54.49	1/4		1/4		1/4		1/4	
1/2	1,821.05	1/2	1,461.64	1/2	1,106.92	1/2	760.85	1/2	401.18	1/2	49.03	1/2		1/2		1/2		1/2	
3/4	1,813.56	3/4	1,454.21	3/4	1,099.77	3/4	753.35	3/4	393.69	3/4	43.57	3/4		3/4		3/4		3/4	
8	1,806.07	8	1,446.78	8	1,092.61	8	745.86	8	386.19	8	38.10	8		8		8		8	
1/4	1,798.58	1/4	1,439.35	1/4	1,085.46	1/4	738.37	1/4	378.70	1/4	33.88	1/4		1/4		1/4		1/4	
1/2	1,791.09	1/2	1,431.92	1/2	1,078.30	1/2	730.87	1/2	371.21	1/2	29.66	1/2		1/2		1/2		1/2	
3/4	1,783.60	3/4	1,424.49	3/4	1,071.15	3/4	723.38	3/4	363.71	3/4	25.44	3/4		3/4		3/4		3/4	
9	1,776.11	9	1,417.07	9	1,063.99	9	715.89	9	356.22	9	21.23	9		9		9		9	
1/4	1,768.62	1/4	1,409.64	1/4	1,056.84	1/4	708.40	1/4	348.73	1/4		1/4		1/4		1/4		1/4	
1/2	1,761.13	1/2	1,402.21	1/2	1,049.68	1/2	700.90	1/2	341.23	1/2		1/2		1/2		1/2		1/2	
3/4	1,753.63	3/4	1,394.78	3/4	1,042.52	3/4	693.41	3/4	333.74	3/4		3/4		3/4		3/4		3/4	
10	1,746.14	10	1,387.35	10	1,035.37	10	685.92	10	326.25	10		10		10		10		10	
1/4	1,738.65	1/4	1,379.92	1/4	1,028.21	1/4	678.42	1/4	318.75	1/4		1/4		1/4		1/4		1/4	
1/2	1,731.16	1/2	1,372.49	1/2	1,021.06	1/2	670.93	1/2	311.26	1/2		1/2		1/2		1/2		1/2	
3/4	1,723.67	3/4	1,365.06	3/4	1,013.90	3/4	663.44	3/4	303.77	3/4		3/4		3/4		3/4		3/4	
11	1,716.18	11	1,357.63	11	1,006.75	11	655.94	11	296.27	11		11		11		11		11	
1/4	1,708.69	1/4	1,350.20	1/4	999.59	1/4	648.45	1/4	288.78	1/4		1/4		1/4		1/4		1/4	
1/2	1,701.20	1/2	1,342.77	1/2	992.44	1/2	640.96	1/2	281.29	1/2		1/2		1/2		1/2		1/2	
3/4	1,693.71	3/4	1,335.34	3/4	985.28	3/4	633.46	3/4	273.80	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/15/2023 JS
CALCULATED: 02/16/2023 CL
PRINTED: 02/17/2023 JS

PRECISION MEASUREMENT
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CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2023