



HSM 3146 FORMERLY BARGE "HTCO 3146"

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	- 02-1/8	02-1/8	- 04-1/4	04-1/4	- 06-1/4	06-1/4	- 08-1/2	08-1/2	- 10-5/8	10-5/8	- 12-3/4	12-3/4
1 STBD	- 02-1/8	02-1/8	- 04-1/4	04-1/4	- 06-1/4	06-1/4	- 08-1/2	08-1/2	- 10-5/8	10-5/8	- 12-3/4	12-3/4
2 PORT	- 02-1/8	02-1/8	- 04-1/4	04-1/4	- 06-1/4	06-1/4	- 08-1/2	08-1/2	- 10-5/8	10-5/8	- 12-3/4	12-3/4
2 STBD	- 02-1/8	02-1/8	- 04-1/4	04-1/4	- 06-1/4	06-1/4	- 08-1/2	08-1/2	- 10-5/8	10-5/8	- 12-3/4	12-3/4
3 PORT	02-1/8	- 02-1/8	04-1/4	- 04-1/4	06-3/8	- 06-3/8	08-1/2	- 08-1/2	10-1/2	- 10-1/2	12-5/8	- 12-5/8
3 STBD	02-1/8	- 02-1/8	04-1/4	- 04-1/4	06-3/8	- 06-3/8	08-1/2	- 08-1/2	10-1/2	- 10-1/2	12-5/8	- 12-5/8

(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 04-1/4"
FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 4'-04 1/4"

LENGTH BETWEEN DRAFT MARKS: 237'-09"

August 16, 2018

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



HSM 3146 FORMERLY BARGE "HTCO 3146"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-01 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	4,934.19	0	4,578.51	0	4,221.00	0	3,862.71	0	3,504.43	0	3,146.15	0	2,787.80
1/4		1/4		1/4		1/4	4,926.85	1/4	4,571.07	1/4	4,213.53	1/4	3,855.25	1/4	3,496.97	1/4	3,138.69	1/4	2,780.33
1/2		1/2		1/2		1/2	4,919.44	1/2	4,563.62	1/2	4,206.07	1/2	3,847.79	1/2	3,489.50	1/2	3,131.22	1/2	2,772.87
3/4		3/4		3/4		3/4	4,912.03	3/4	4,556.18	3/4	4,198.60	3/4	3,840.32	3/4	3,482.04	3/4	3,123.76	3/4	2,765.40
1		1		1		1	4,904.63	1	4,548.74	1	4,191.14	1	3,832.86	1	3,474.58	1	3,116.29	1	2,757.93
1/4		1/4		1/4		1/4	4,897.22	1/4	4,541.30	1/4	4,183.67	1/4	3,825.39	1/4	3,467.11	1/4	3,108.83	1/4	2,750.46
1/2		1/2		1/2		1/2	4,889.81	1/2	4,533.85	1/2	4,176.21	1/2	3,817.93	1/2	3,459.65	1/2	3,101.37	1/2	2,742.99
3/4		3/4		3/4		3/4	4,882.41	3/4	4,526.41	3/4	4,168.75	3/4	3,810.46	3/4	3,452.18	3/4	3,093.90	3/4	2,735.52
2		2		2		2	4,875.00	2	4,518.97	2	4,161.28	2	3,803.00	2	3,444.72	2	3,086.44	2	2,728.06
1/4		1/4		1/4		1/4	4,867.59	1/4	4,511.53	1/4	4,153.82	1/4	3,795.54	1/4	3,437.25	1/4	3,078.97	1/4	2,720.59
1/2		1/2		1/2		1/2	4,860.19	1/2	4,504.08	1/2	4,146.35	1/2	3,788.07	1/2	3,429.79	1/2	3,071.51	1/2	2,713.12
3/4		3/4		3/4		3/4	4,852.78	3/4	4,496.64	3/4	4,138.89	3/4	3,780.61	3/4	3,422.33	3/4	3,064.04	3/4	2,705.65
3		3		3		3	4,845.37	3	4,489.20	3	4,131.43	3	3,773.14	3	3,414.86	3	3,056.58	3	2,698.18
1/4		1/4		1/4		1/4	4,837.97	1/4	4,481.76	1/4	4,123.96	1/4	3,765.68	1/4	3,407.40	1/4	3,049.12	1/4	2,690.72
1/2		1/2		1/2		1/2	4,830.56	1/2	4,474.32	1/2	4,116.50	1/2	3,758.22	1/2	3,399.93	1/2	3,041.65	1/2	2,683.25
3/4		3/4		3/4		3/4	4,823.16	3/4	4,466.87	3/4	4,109.03	3/4	3,750.75	3/4	3,392.47	3/4	3,034.19	3/4	2,675.78
4		4		4		4	4,815.75	4	4,459.43	4	4,101.57	4	3,743.29	4	3,385.01	4	3,026.72	4	2,668.31
1/4		1/4		1/4		1/4	4,808.35	1/4	4,451.99	1/4	4,094.10	1/4	3,735.82	1/4	3,377.54	1/4	3,019.26	1/4	2,660.84
1/2		1/2		1/2		1/2	4,800.95	1/2	4,444.55	1/2	4,086.64	1/2	3,728.36	1/2	3,370.08	1/2	3,011.80	1/2	2,653.37
3/4		3/4		3/4		3/4	4,793.54	3/4	4,437.10	3/4	4,079.18	3/4	3,720.89	3/4	3,362.61	3/4	3,004.33	3/4	2,645.91
5		5		5		5	4,786.14	5	4,429.66	5	4,071.71	5	3,713.43	5	3,355.15	5	2,996.87	5	2,638.44
1/4		1/4		1/4		1/4	5,056.89	1/4	4,778.74	1/4	4,422.22	1/4	4,064.25	1/4	3,705.97	1/4	3,347.68	1/4	2,989.40
1/2		1/2		1/2		1/2	5,055.35	1/2	4,771.33	1/2	4,414.78	1/2	4,056.78	1/2	3,698.50	1/2	3,340.22	1/2	2,981.94
3/4		3/4		3/4		3/4	5,053.81	3/4	4,763.93	3/4	4,407.33	3/4	4,049.32	3/4	3,691.04	3/4	3,332.76	3/4	2,974.47
6		6		6		6	5,052.27	6	4,756.53	6	4,399.89	6	4,041.85	6	3,683.57	6	3,325.29	6	2,967.01
1/4		1/4		1/4		1/4	5,050.74	1/4	4,749.13	1/4	4,392.45	1/4	4,034.39	1/4	3,676.11	1/4	3,317.83	1/4	2,959.55
1/2		1/2		1/2		1/2	5,048.13	1/2	4,741.72	1/2	4,385.01	1/2	4,026.93	1/2	3,668.64	1/2	3,310.36	1/2	2,952.08
3/4		3/4		3/4		3/4	5,045.52	3/4	4,734.32	3/4	4,377.56	3/4	4,019.46	3/4	3,661.18	3/4	3,302.90	3/4	2,944.62
7		7		7		7	5,042.92	7	4,726.92	7	4,370.12	7	4,012.00	7	3,653.72	7	3,295.43	7	2,937.15
1/4		1/4		1/4		1/4	5,040.31	1/4	4,719.52	1/4	4,362.68	1/4	4,004.53	1/4	3,646.25	1/4	3,287.97	1/4	2,929.69
1/2		1/2		1/2		1/2	5,036.64	1/2	4,712.11	1/2	4,355.24	1/2	3,997.07	1/2	3,638.79	1/2	3,280.51	1/2	2,922.22
3/4		3/4		3/4		3/4	5,032.97	3/4	4,704.71	3/4	4,347.79	3/4	3,989.61	3/4	3,631.32	3/4	3,273.04	3/4	2,914.76
8		8		8		8	5,029.30	8	4,697.31	8	4,340.35	8	3,982.14	8	3,623.86	8	3,265.58	8	2,907.29
1/4		1/4		1/4		1/4	5,025.62	1/4	4,689.91	1/4	4,332.91	1/4	3,974.68	1/4	3,616.40	1/4	3,258.11	1/4	2,899.82
1/2		1/2		1/2		1/2	5,020.88	1/2	4,682.50	1/2	4,325.46	1/2	3,967.21	1/2	3,608.93	1/2	3,250.65	1/2	2,892.36
3/4		3/4		3/4		3/4	5,016.14	3/4	4,675.10	3/4	4,318.01	3/4	3,959.75	3/4	3,601.47	3/4	3,243.19	3/4	2,884.89
9		9		9		9	5,011.40	9	4,667.70	9	4,310.55	9	3,952.28	9	3,594.00	9	3,235.72	9	2,877.42
1/4		1/4		1/4		1/4	5,006.67	1/4	4,660.30	1/4	4,303.10	1/4	3,944.82	1/4	3,586.54	1/4	3,228.26	1/4	2,869.95
1/2		1/2		1/2		1/2	5,000.86	1/2	4,652.87	1/2	4,295.64	1/2	3,937.36	1/2	3,579.07	1/2	3,220.79	1/2	2,862.48
3/4		3/4		3/4		3/4	4,995.05	3/4	4,645.45	3/4	4,288.17	3/4	3,929.89	3/4	3,571.61	3/4	3,213.33	3/4	2,855.02
10		10		10		10	4,989.25	10	4,638.03	10	4,280.71	10	3,922.43	10	3,564.15	10	3,205.86	10	2,847.55
1/4		1/4		1/4		1/4	4,983.44	1/4	4,630.61	1/4	4,273.25	1/4	3,914.96	1/4	3,556.68	1/4	3,198.40	1/4	2,840.08
1/2		1/2		1/2		1/2	4,976.63	1/2	4,623.16	1/2	4,265.78	1/2	3,907.50	1/2	3,549.22	1/2	3,190.94	1/2	2,832.61
3/4		3/4		3/4		3/4	4,969.82	3/4	4,615.72	3/4	4,258.32	3/4	3,900.04	3/4	3,541.75	3/4	3,183.47	3/4	2,825.14
11		11		11		11	4,963.02	11	4,608.28	11	4,250.85	11	3,892.57	11	3,534.29	11	3,176.01	11	2,817.67
1/4		1/4		1/4		1/4	4,956.21	1/4	4,600.84	1/4	4,243.39	1/4	3,885.11	1/4	3,526.83	1/4	3,168.54	1/4	2,810.21
1/2		1/2		1/2		1/2	4,948.87	1/2	4,593.39	1/2	4,235.92	1/2	3,877.64	1/2	3,519.36	1/2	3,161.08	1/2	2,802.74
3/4		3/4		3/4		3/4	4,941.53	3/4	4,585.95	3/4	4,228.46	3/4	3,870.18	3/4	3,511.90	3/4	3,153.62	3/4	2,795.27

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 TOP LIP 2" HERMETIC VALVE

GAUGE POINT: (HERMETIC) LOCATED 03'-00" OFF CENTERLINE AND 01'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
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HSM 3146 FORMERLY BARGE "HTCO 3146"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-01 1/4"

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	2,429.33	0	2,070.85	0	1,712.38	0	1,353.91	0	996.08	0	639.18	0	294.66	0	12.61	0		0	
1/4	2,421.86	1/4	2,063.39	1/4	1,704.91	1/4	1,346.44	1/4	988.65	1/4	631.72	1/4	287.91	1/4	9.70	1/4		1/4	
1/2	2,414.39	1/2	2,055.92	1/2	1,697.44	1/2	1,338.97	1/2	981.24	1/2	624.25	1/2	281.24	1/2	7.83	1/2		1/2	
3/4	2,406.92	3/4	2,048.45	3/4	1,689.98	3/4	1,331.50	3/4	973.82	3/4	616.78	3/4	274.57	3/4	5.96	3/4		3/4	
1	2,399.46	1	2,040.98	1	1,682.51	1	1,324.03	1	966.40	1	609.31	1	267.91	1	4.10	1		1	
1/4	2,391.99	1/4	2,033.51	1/4	1,675.04	1/4	1,316.57	1/4	958.99	1/4	601.84	1/4	261.24	1/4	2.23	1/4		1/4	
1/2	2,384.52	1/2	2,026.05	1/2	1,667.57	1/2	1,309.10	1/2	951.57	1/2	594.38	1/2	254.65	1/2		1/2		1/2	
3/4	2,377.05	3/4	2,018.58	3/4	1,660.10	3/4	1,301.63	3/4	944.15	3/4	586.91	3/4	248.06	3/4		3/4		3/4	
2	2,369.58	2	2,011.11	2	1,652.64	2	1,294.16	2	936.73	2	579.44	2	241.48	2		2		2	
1/4	2,362.11	1/4	2,003.64	1/4	1,645.17	1/4	1,286.69	1/4	929.32	1/4	571.97	1/4	234.89	1/4		1/4		1/4	
1/2	2,354.65	1/2	1,996.17	1/2	1,637.70	1/2	1,279.23	1/2	921.90	1/2	564.53	1/2	228.38	1/2		1/2		1/2	
3/4	2,347.18	3/4	1,988.70	3/4	1,630.23	3/4	1,271.76	3/4	914.48	3/4	557.08	3/4	221.88	3/4		3/4		3/4	
3	2,339.71	3	1,981.24	3	1,622.76	3	1,264.29	3	907.07	3	549.63	3	215.37	3		3		3	
1/4	2,332.24	1/4	1,973.77	1/4	1,615.29	1/4	1,256.82	1/4	899.65	1/4	542.19	1/4	208.87	1/4		1/4		1/4	
1/2	2,324.77	1/2	1,966.30	1/2	1,607.83	1/2	1,249.35	1/2	892.23	1/2	534.80	1/2	202.44	1/2		1/2		1/2	
3/4	2,317.31	3/4	1,958.83	3/4	1,600.36	3/4	1,241.88	3/4	884.81	3/4	527.42	3/4	196.02	3/4		3/4		3/4	
4	2,309.84	4	1,951.36	4	1,592.89	4	1,234.42	4	877.40	4	520.04	4	189.60	4		4		4	
1/4	2,302.37	1/4	1,943.90	1/4	1,585.42	1/4	1,226.95	1/4	869.98	1/4	512.65	1/4	183.17	1/4		1/4		1/4	
1/2	2,294.90	1/2	1,936.43	1/2	1,577.95	1/2	1,219.48	1/2	862.56	1/2	505.35	1/2	176.82	1/2		1/2		1/2	
3/4	2,287.43	3/4	1,928.96	3/4	1,570.49	3/4	1,212.01	3/4	855.15	3/4	498.05	3/4	170.48	3/4		3/4		3/4	
5	2,279.96	5	1,921.49	5	1,563.02	5	1,204.54	5	847.73	5	490.75	5	164.13	5		5		5	
1/4	2,272.50	1/4	1,914.02	1/4	1,555.55	1/4	1,197.08	1/4	840.31	1/4	483.44	1/4	157.78	1/4		1/4		1/4	
1/2	2,265.03	1/2	1,906.55	1/2	1,548.08	1/2	1,189.61	1/2	832.89	1/2	476.22	1/2	151.50	1/2		1/2		1/2	
3/4	2,257.56	3/4	1,899.09	3/4	1,540.61	3/4	1,182.14	3/4	825.48	3/4	469.00	3/4	145.23	3/4		3/4		3/4	
6	2,250.09	6	1,891.62	6	1,533.14	6	1,174.67	6	818.06	6	461.77	6	138.95	6		6		6	
1/4	2,242.62	1/4	1,884.15	1/4	1,525.68	1/4	1,167.20	1/4	810.64	1/4	454.55	1/4	132.67	1/4		1/4		1/4	
1/2	2,235.16	1/2	1,876.68	1/2	1,518.21	1/2	1,159.73	1/2	803.22	1/2	447.41	1/2	126.48	1/2		1/2		1/2	
3/4	2,227.69	3/4	1,869.21	3/4	1,510.74	3/4	1,152.27	3/4	795.81	3/4	440.27	3/4	120.28	3/4		3/4		3/4	
7	2,220.22	7	1,861.75	7	1,503.27	7	1,144.80	7	788.39	7	433.13	7	114.09	7		7		7	
1/4	2,212.75	1/4	1,854.28	1/4	1,495.80	1/4	1,137.33	1/4	780.97	1/4	425.99	1/4	107.89	1/4		1/4		1/4	
1/2	2,205.28	1/2	1,846.81	1/2	1,488.34	1/2	1,129.88	1/2	773.53	1/2	418.93	1/2	101.78	1/2		1/2		1/2	
3/4	2,197.81	3/4	1,839.34	3/4	1,480.87	3/4	1,122.42	3/4	766.09	3/4	411.87	3/4	95.67	3/4		3/4		3/4	
8	2,190.35	8	1,831.87	8	1,473.40	8	1,114.97	8	758.65	8	404.81	8	89.55	8		8		8	
1/4	2,182.88	1/4	1,824.40	1/4	1,465.93	1/4	1,107.52	1/4	751.20	1/4	397.75	1/4	83.44	1/4		1/4		1/4	
1/2	2,175.41	1/2	1,816.94	1/2	1,458.46	1/2	1,100.08	1/2	743.74	1/2	390.77	1/2	77.40	1/2		1/2		1/2	
3/4	2,167.94	3/4	1,809.47	3/4	1,450.99	3/4	1,092.64	3/4	736.27	3/4	383.79	3/4	71.37	3/4		3/4		3/4	
9	2,160.47	9	1,802.00	9	1,443.53	9	1,085.20	9	728.80	9	376.82	9	65.34	9		9		9	
1/4	2,153.00	1/4	1,794.53	1/4	1,436.06	1/4	1,077.76	1/4	721.33	1/4	369.84	1/4	59.30	1/4		1/4		1/4	
1/2	2,145.54	1/2	1,787.06	1/2	1,428.59	1/2	1,070.33	1/2	713.86	1/2	362.94	1/2	53.82	1/2		1/2		1/2	
3/4	2,138.07	3/4	1,779.59	3/4	1,421.12	3/4	1,062.90	3/4	706.40	3/4	356.03	3/4	48.33	3/4		3/4		3/4	
10	2,130.60	10	1,772.13	10	1,413.65	10	1,055.47	10	698.93	10	349.13	10	42.85	10		10		10	
1/4	2,123.13	1/4	1,764.66	1/4	1,406.18	1/4	1,048.04	1/4	691.46	1/4	342.23	1/4	37.37	1/4		1/4		1/4	
1/2	2,115.66	1/2	1,757.19	1/2	1,398.72	1/2	1,040.61	1/2	683.99	1/2	335.40	1/2	33.36	1/2		1/2		1/2	
3/4	2,108.20	3/4	1,749.72	3/4	1,391.25	3/4	1,033.19	3/4	676.52	3/4	328.57	3/4	29.36	3/4		3/4		3/4	
11	2,100.73	11	1,742.25	11	1,383.78	11	1,025.76	11	669.06	11	321.74	11	25.36	11		11		11	
1/4	2,093.26	1/4	1,734.79	1/4	1,376.31	1/4	1,018.34	1/4	661.59	1/4	314.91	1/4	21.36	1/4		1/4		1/4	
1/2	2,085.79	1/2	1,727.32	1/2	1,368.84	1/2	1,010.92	1/2	654.12	1/2	308.16	1/2	18.44	1/2		1/2		1/2	
3/4	2,078.32	3/4	1,719.85	3/4	1,361.38	3/4	1,003.50	3/4	646.65	3/4	301.41	3/4	15.53	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/19/2015 CL
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REPRINTED: 08/16/2018 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2018

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



HSM 3146 FORMERLY BARGE "HTCO 3146"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-01 1/4"

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	2,429.87	0	2,071.57	0	1,713.27	0	1,354.98	0	996.75	0	638.89	0	294.58	0	12.61	0			
1/4	2,422.40	1/4	2,064.11	1/4	1,705.81	1/4	1,347.51	1/4	989.30	1/4	631.43	1/4	287.83	1/4	9.69	1/4			
1/2	2,414.94	1/2	2,056.64	1/2	1,698.35	1/2	1,340.05	1/2	981.85	1/2	623.96	1/2	281.17	1/2	7.83	1/2			
3/4	2,407.47	3/4	2,049.18	3/4	1,690.88	3/4	1,332.58	3/4	974.40	3/4	616.50	3/4	274.50	3/4	5.96	3/4			
1	2,400.01	1	2,041.71	1	1,683.42	1	1,325.12	1	966.95	1	609.03	1	267.84	1	4.10	1			
1/4	2,392.54	1/4	2,034.25	1/4	1,675.95	1/4	1,317.66	1/4	959.50	1/4	601.57	1/4	261.17	1/4	2.23	1/4			
1/2	2,385.08	1/2	2,026.78	1/2	1,668.49	1/2	1,310.19	1/2	952.05	1/2	594.10	1/2	254.59	1/2		1/2			
3/4	2,377.61	3/4	2,019.32	3/4	1,661.02	3/4	1,302.73	3/4	944.60	3/4	586.64	3/4	248.00	3/4		3/4			
2	2,370.15	2	2,011.85	2	1,653.56	2	1,295.26	2	937.14	2	579.18	2	241.42	2		2			
1/4	2,362.69	1/4	2,004.39	1/4	1,646.09	1/4	1,287.80	1/4	929.69	1/4	571.71	1/4	234.83	1/4		1/4			
1/2	2,355.22	1/2	1,996.93	1/2	1,638.63	1/2	1,280.33	1/2	922.24	1/2	564.27	1/2	228.33	1/2		1/2			
3/4	2,347.76	3/4	1,989.46	3/4	1,631.16	3/4	1,272.87	3/4	914.79	3/4	556.83	3/4	221.82	3/4		3/4			
3	2,340.29	3	1,982.00	3	1,623.70	3	1,265.40	3	907.34	3	549.40	3	215.32	3		3			
1/4	2,332.83	1/4	1,974.53	1/4	1,616.24	1/4	1,257.94	1/4	899.89	1/4	541.96	1/4	208.82	1/4		1/4			
1/2	2,325.36	1/2	1,967.07	1/2	1,608.77	1/2	1,250.48	1/2	892.44	1/2	534.59	1/2	202.40	1/2		1/2			
3/4	2,317.90	3/4	1,959.60	3/4	1,601.31	3/4	1,243.01	3/4	884.99	3/4	527.21	3/4	195.97	3/4		3/4			
4	2,310.43	4	1,952.14	4	1,593.84	4	1,235.55	4	877.54	4	519.84	4	189.55	4		4			
1/4	2,302.97	1/4	1,944.67	1/4	1,586.38	1/4	1,228.08	1/4	870.09	1/4	512.47	1/4	183.13	1/4		1/4			
1/2	2,295.51	1/2	1,937.21	1/2	1,578.91	1/2	1,220.62	1/2	862.64	1/2	505.17	1/2	176.78	1/2		1/2			
3/4	2,288.04	3/4	1,929.74	3/4	1,571.45	3/4	1,213.15	3/4	855.19	3/4	497.88	3/4	170.44	3/4		3/4			
5	2,280.58	5	1,922.28	5	1,563.98	5	1,205.69	5	847.74	5	490.58	5	164.09	5		5			
1/4	2,273.11	1/4	1,914.82	1/4	1,556.52	1/4	1,198.22	1/4	840.29	1/4	483.28	1/4	157.74	1/4		1/4			
1/2	2,265.65	1/2	1,907.35	1/2	1,549.06	1/2	1,190.76	1/2	832.84	1/2	476.06	1/2	151.47	1/2		1/2			
3/4	2,258.18	3/4	1,899.89	3/4	1,541.59	3/4	1,183.29	3/4	825.39	3/4	468.85	3/4	145.19	3/4		3/4			
6	2,250.72	6	1,892.42	6	1,534.13	6	1,175.83	6	817.94	6	461.63	6	138.92	6		6			
1/4	2,243.25	1/4	1,884.96	1/4	1,526.66	1/4	1,168.37	1/4	810.48	1/4	454.41	1/4	132.65	1/4		1/4			
1/2	2,235.79	1/2	1,877.49	1/2	1,519.20	1/2	1,160.90	1/2	803.03	1/2	447.27	1/2	126.45	1/2		1/2			
3/4	2,228.32	3/4	1,870.03	3/4	1,511.73	3/4	1,153.44	3/4	795.58	3/4	440.13	3/4	120.26	3/4		3/4			
7	2,220.86	7	1,862.56	7	1,504.27	7	1,145.97	7	788.13	7	432.99	7	114.07	7		7			
1/4	2,213.40	1/4	1,855.10	1/4	1,496.80	1/4	1,138.51	1/4	780.68	1/4	425.86	1/4	107.87	1/4		1/4			
1/2	2,205.93	1/2	1,847.64	1/2	1,489.34	1/2	1,131.04	1/2	773.23	1/2	418.80	1/2	101.76	1/2		1/2			
3/4	2,198.47	3/4	1,840.17	3/4	1,481.87	3/4	1,123.58	3/4	765.77	3/4	411.74	3/4	95.65	3/4		3/4			
8	2,191.00	8	1,832.71	8	1,474.41	8	1,116.11	8	758.31	8	404.69	8	89.53	8		8			
1/4	2,183.54	1/4	1,825.24	1/4	1,466.95	1/4	1,108.65	1/4	750.85	1/4	397.63	1/4	83.42	1/4		1/4			
1/2	2,176.07	1/2	1,817.78	1/2	1,459.48	1/2	1,101.19	1/2	743.39	1/2	390.65	1/2	77.39	1/2		1/2			
3/4	2,168.61	3/4	1,810.31	3/4	1,452.02	3/4	1,093.72	3/4	735.93	3/4	383.68	3/4	71.36	3/4		3/4			
9	2,161.14	9	1,802.85	9	1,444.55	9	1,086.26	9	728.46	9	376.70	9	65.33	9		9			
1/4	2,153.68	1/4	1,795.38	1/4	1,437.09	1/4	1,078.79	1/4	721.00	1/4	369.73	1/4	59.29	1/4		1/4			
1/2	2,146.22	1/2	1,787.92	1/2	1,429.62	1/2	1,071.33	1/2	713.53	1/2	362.83	1/2	53.81	1/2		1/2			
3/4	2,138.75	3/4	1,780.45	3/4	1,422.16	3/4	1,063.87	3/4	706.07	3/4	355.93	3/4	48.33	3/4		3/4			
10	2,131.29	10	1,772.99	10	1,414.69	10	1,056.41	10	698.60	10	349.03	10	42.84	10		10			
1/4	2,123.82	1/4	1,765.53	1/4	1,407.23	1/4	1,048.95	1/4	691.14	1/4	342.13	1/4	37.36	1/4		1/4			
1/2	2,116.36	1/2	1,758.06	1/2	1,399.77	1/2	1,041.49	1/2	683.68	1/2	335.30	1/2	33.36	1/2		1/2			
3/4	2,108.89	3/4	1,750.60	3/4	1,392.30	3/4	1,034.03	3/4	676.21	3/4	328.47	3/4	29.35	3/4		3/4			
11	2,101.43	11	1,743.13	11	1,384.84	11	1,026.57	11	668.75	11	321.65	11	25.35	11		11			
1/4	2,093.96	1/4	1,735.67	1/4	1,377.37	1/4	1,019.11	1/4	661.28	1/4	314.82	1/4	21.35	1/4		1/4			
1/2	2,086.50	1/2	1,728.20	1/2	1,369.91	1/2	1,011.66	1/2	653.82	1/2	308.07	1/2	18.44	1/2		1/2			
3/4	2,079.03	3/4	1,720.74	3/4	1,362.44	3/4	1,004.21	3/4	646.35	3/4	301.33	3/4	15.52	3/4		3/4			

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HSM 3146 FORMERLY BARGE "HTCO 3146"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-01"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	4,995.08	0	4,638.59	0	4,280.34	0	3,921.37	0	3,562.39	0	3,203.42	0	2,844.37
1/4		1/4		1/4		1/4	4,987.65	1/4	4,631.14	1/4	4,272.86	1/4	3,913.89	1/4	3,554.91	1/4	3,195.94	1/4	2,836.89
1/2		1/2		1/2		1/2	4,980.23	1/2	4,623.68	1/2	4,265.38	1/2	3,906.41	1/2	3,547.44	1/2	3,188.46	1/2	2,829.41
3/4		3/4		3/4		3/4	4,972.81	3/4	4,616.22	3/4	4,257.90	3/4	3,898.93	3/4	3,539.96	3/4	3,180.98	3/4	2,821.93
1		1		1		1	4,965.39	1	4,608.76	1	4,250.42	1	3,891.45	1	3,532.48	1	3,173.51	1	2,814.44
1/4		1/4		1/4		1/4	4,957.97	1/4	4,601.31	1/4	4,242.95	1/4	3,883.97	1/4	3,525.00	1/4	3,166.03	1/4	2,806.96
1/2		1/2		1/2		1/2	4,950.55	1/2	4,593.85	1/2	4,235.47	1/2	3,876.49	1/2	3,517.52	1/2	3,158.55	1/2	2,799.48
3/4		3/4		3/4		3/4	4,943.13	3/4	4,586.39	3/4	4,227.99	3/4	3,869.02	3/4	3,510.04	3/4	3,151.07	3/4	2,791.99
2		2		2		2	4,935.71	2	4,578.94	2	4,220.51	2	3,861.54	2	3,502.56	2	3,143.59	2	2,784.51
1/4		1/4		1/4		1/4	4,928.28	1/4	4,571.48	1/4	4,213.03	1/4	3,854.06	1/4	3,495.09	1/4	3,136.11	1/4	2,777.03
1/2		1/2		1/2		1/2	4,920.86	1/2	4,564.02	1/2	4,205.55	1/2	3,846.58	1/2	3,487.61	1/2	3,128.63	1/2	2,769.55
3/4		3/4		3/4		3/4	4,913.44	3/4	4,556.57	3/4	4,198.07	3/4	3,839.10	3/4	3,480.13	3/4	3,121.16	3/4	2,762.06
3		3		3		3	4,906.02	3	4,549.11	3	4,190.60	3	3,831.62	3	3,472.65	3	3,113.68	3	2,754.58
1/4		1/4		1/4		1/4	4,898.60	1/4	4,541.65	1/4	4,183.12	1/4	3,824.14	1/4	3,465.17	1/4	3,106.20	1/4	2,747.10
1/2		1/2		1/2		1/2	4,891.18	1/2	4,534.19	1/2	4,175.64	1/2	3,816.67	1/2	3,457.69	1/2	3,098.72	1/2	2,739.62
3/4		3/4		3/4		3/4	4,883.76	3/4	4,526.74	3/4	4,168.16	3/4	3,809.19	3/4	3,450.21	3/4	3,091.24	3/4	2,732.13
4		4		4		4	4,876.34	4	4,519.28	4	4,160.68	4	3,801.71	4	3,442.74	4	3,083.76	4	2,724.65
1/4		1/4		1/4		1/4	4,868.93	1/4	4,511.82	1/4	4,153.20	1/4	3,794.23	1/4	3,435.26	1/4	3,076.28	1/4	2,717.17
1/2		1/2		1/2		1/2	4,861.51	1/2	4,504.37	1/2	4,145.72	1/2	3,786.75	1/2	3,427.78	1/2	3,068.81	1/2	2,709.68
3/4		3/4		3/4		3/4	4,854.09	3/4	4,496.91	3/4	4,138.25	3/4	3,779.27	3/4	3,420.30	3/4	3,061.33	3/4	2,702.20
5		5		5	5,125.38	5	4,846.67	5	4,489.45	5	4,130.77	5	3,771.79	5	3,412.82	5	3,053.85	5	2,694.72
1/4		1/4		1/4	5,123.84	1/4	4,839.26	1/4	4,482.00	1/4	4,123.29	1/4	3,764.32	1/4	3,405.34	1/4	3,046.37	1/4	2,687.24
1/2		1/2		1/2	5,122.30	1/2	4,831.84	1/2	4,474.54	1/2	4,115.81	1/2	3,756.84	1/2	3,397.86	1/2	3,038.89	1/2	2,679.75
3/4		3/4		3/4	5,120.75	3/4	4,824.42	3/4	4,467.08	3/4	4,108.33	3/4	3,749.36	3/4	3,390.39	3/4	3,031.41	3/4	2,672.27
6		6		6	5,119.21	6	4,817.00	6	4,459.62	6	4,100.85	6	3,741.88	6	3,382.91	6	3,023.93	6	2,664.79
1/4		1/4		1/4	5,116.60	1/4	4,809.59	1/4	4,452.17	1/4	4,093.37	1/4	3,734.40	1/4	3,375.43	1/4	3,016.46	1/4	2,657.31
1/2		1/2		1/2	5,113.99	1/2	4,802.17	1/2	4,444.71	1/2	4,085.90	1/2	3,726.92	1/2	3,367.95	1/2	3,008.98	1/2	2,649.82
3/4		3/4		3/4	5,111.38	3/4	4,794.75	3/4	4,437.25	3/4	4,078.42	3/4	3,719.44	3/4	3,360.47	3/4	3,001.50	3/4	2,642.34
7		7		7	5,108.77	7	4,787.34	7	4,429.80	7	4,070.94	7	3,711.97	7	3,352.99	7	2,994.02	7	2,634.86
1/4		1/4		1/4	5,105.09	1/4	4,779.92	1/4	4,422.34	1/4	4,063.46	1/4	3,704.49	1/4	3,345.51	1/4	2,986.54	1/4	2,627.38
1/2		1/2		1/2	5,101.41	1/2	4,772.50	1/2	4,414.88	1/2	4,055.98	1/2	3,697.01	1/2	3,338.04	1/2	2,979.06	1/2	2,619.89
3/4		3/4		3/4	5,097.73	3/4	4,765.08	3/4	4,407.43	3/4	4,048.50	3/4	3,689.53	3/4	3,330.56	3/4	2,971.58	3/4	2,612.41
8		8		8	5,094.05	8	4,757.67	8	4,399.97	8	4,041.02	8	3,682.05	8	3,323.08	8	2,964.10	8	2,604.93
1/4		1/4		1/4	5,089.30	1/4	4,750.25	1/4	4,392.50	1/4	4,033.54	1/4	3,674.57	1/4	3,315.60	1/4	2,956.61	1/4	2,597.44
1/2		1/2		1/2	5,084.55	1/2	4,742.83	1/2	4,385.03	1/2	4,026.07	1/2	3,667.09	1/2	3,308.12	1/2	2,949.13	1/2	2,589.96
3/4		3/4		3/4	5,079.80	3/4	4,735.41	3/4	4,377.55	3/4	4,018.59	3/4	3,659.61	3/4	3,300.64	3/4	2,941.65	3/4	2,582.48
9		9		9	5,075.05	9	4,728.00	9	4,370.08	9	4,011.11	9	3,652.14	9	3,293.16	9	2,934.17	9	2,575.00
1/4		1/4		1/4	5,069.23	1/4	4,720.56	1/4	4,362.60	1/4	4,003.63	1/4	3,644.66	1/4	3,285.68	1/4	2,926.68	1/4	2,567.51
1/2		1/2		1/2	5,063.42	1/2	4,713.12	1/2	4,355.12	1/2	3,996.15	1/2	3,637.18	1/2	3,278.21	1/2	2,919.20	1/2	2,560.03
3/4		3/4		3/4	5,057.60	3/4	4,705.69	3/4	4,347.65	3/4	3,988.67	3/4	3,629.70	3/4	3,270.73	3/4	2,911.72	3/4	2,552.55
10		10		10	5,051.78	10	4,698.25	10	4,340.17	10	3,981.19	10	3,622.22	10	3,263.25	10	2,904.24	10	2,545.07
1/4		1/4		1/4	5,044.96	1/4	4,690.79	1/4	4,332.69	1/4	3,973.72	1/4	3,614.74	1/4	3,255.77	1/4	2,896.75	1/4	2,537.58
1/2		1/2		1/2	5,038.14	1/2	4,683.33	1/2	4,325.21	1/2	3,966.24	1/2	3,607.26	1/2	3,248.29	1/2	2,889.27	1/2	2,530.10
3/4		3/4		3/4	5,031.32	3/4	4,675.88	3/4	4,317.73	3/4	3,958.76	3/4	3,599.79	3/4	3,240.81	3/4	2,881.79	3/4	2,522.62
11		11		11	5,024.50	11	4,668.42	11	4,310.25	11	3,951.28	11	3,592.31	11	3,233.33	11	2,874.30	11	2,515.13
1/4		1/4		1/4	5,017.14	1/4	4,660.96	1/4	4,302.77	1/4	3,943.80	1/4	3,584.83	1/4	3,225.86	1/4	2,866.82	1/4	2,507.65
1/2		1/2		1/2	5,009.79	1/2	4,653.51	1/2	4,295.30	1/2	3,936.32	1/2	3,577.35	1/2	3,218.38	1/2	2,859.34	1/2	2,500.17
3/4		3/4		3/4	5,002.43	3/4	4,646.05	3/4	4,287.82	3/4	3,928.84	3/4	3,569.87	3/4	3,210.90	3/4	2,851.86	3/4	2,492.69

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 TOP LIP 2" HERMETIC VALVE.
GAUGE POINT: (HERMETIC) LOCATED 03'-00" OFF CENTERLINE AND 01'-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>



HSM 3146 FORMERLY BARGE "HTCO 3146"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-01"

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	2,485.20	0	2,126.03	0	1,766.86	0	1,407.70	0	1,053.76	0	703.71	0	344.55	0	9.71	0			
1/4	2,477.72	1/4	2,118.55	1/4	1,759.38	1/4	1,400.21	1/4	1,046.59	1/4	696.23	1/4	337.07	1/4	7.84	1/4			
1/2	2,470.24	1/2	2,111.07	1/2	1,751.90	1/2	1,392.73	1/2	1,039.41	1/2	688.75	1/2	329.59	1/2	5.97	1/2			
3/4	2,462.76	3/4	2,103.59	3/4	1,744.42	3/4	1,385.25	3/4	1,032.23	3/4	681.27	3/4	322.11	3/4	4.10	3/4			
1	2,455.27	1	2,096.10	1	1,736.93	1	1,377.76	1	1,025.05	1	673.78	1	314.62	1	2.24	1			
1/4	2,447.79	1/4	2,088.62	1/4	1,729.45	1/4	1,370.28	1/4	1,017.87	1/4	666.30	1/4	307.14	1/4		1/4			
1/2	2,440.31	1/2	2,081.14	1/2	1,721.97	1/2	1,362.80	1/2	1,010.69	1/2	658.82	1/2	299.66	1/2		1/2			
3/4	2,432.83	3/4	2,073.66	3/4	1,714.49	3/4	1,355.32	3/4	1,003.51	3/4	651.34	3/4	292.18	3/4		3/4			
2	2,425.34	2	2,066.17	2	1,707.00	2	1,347.83	2	996.33	2	643.85	2	284.69	2		2			
1/4	2,417.86	1/4	2,058.69	1/4	1,699.52	1/4	1,340.35	1/4	989.15	1/4	636.37	1/4	277.21	1/4		1/4			
1/2	2,410.38	1/2	2,051.21	1/2	1,692.04	1/2	1,332.87	1/2	981.98	1/2	628.89	1/2	269.73	1/2		1/2			
3/4	2,402.89	3/4	2,043.72	3/4	1,684.56	3/4	1,325.39	3/4	974.80	3/4	621.41	3/4	262.25	3/4		3/4			
3	2,395.41	3	2,036.24	3	1,677.07	3	1,317.90	3	967.62	3	613.92	3	254.76	3		3			
1/4	2,387.93	1/4	2,028.76	1/4	1,669.59	1/4	1,310.42	1/4	960.44	1/4	606.44	1/4	247.28	1/4		1/4			
1/2	2,380.45	1/2	2,021.28	1/2	1,662.11	1/2	1,302.94	1/2	953.26	1/2	598.96	1/2	239.80	1/2		1/2			
3/4	2,372.96	3/4	2,013.79	3/4	1,654.62	3/4	1,295.45	3/4	946.08	3/4	591.48	3/4	232.32	3/4		3/4			
4	2,365.48	4	2,006.31	4	1,647.14	4	1,287.97	4	938.90	4	583.99	4	224.83	4		4			
1/4	2,358.00	1/4	1,998.83	1/4	1,639.66	1/4	1,280.49	1/4	931.72	1/4	576.51	1/4	217.35	1/4		1/4			
1/2	2,350.52	1/2	1,991.35	1/2	1,632.18	1/2	1,273.01	1/2	924.54	1/2	569.03	1/2	209.87	1/2		1/2			
3/4	2,343.03	3/4	1,983.86	3/4	1,624.69	3/4	1,265.52	3/4	917.37	3/4	561.55	3/4	202.39	3/4		3/4			
5	2,335.55	5	1,976.38	5	1,617.21	5	1,258.04	5	910.19	5	554.06	5	194.90	5		5			
1/4	2,328.07	1/4	1,968.90	1/4	1,609.73	1/4	1,250.56	1/4	903.01	1/4	546.58	1/4	187.42	1/4		1/4			
1/2	2,320.58	1/2	1,961.41	1/2	1,602.25	1/2	1,243.08	1/2	895.83	1/2	539.10	1/2	179.94	1/2		1/2			
3/4	2,313.10	3/4	1,953.93	3/4	1,594.76	3/4	1,235.59	3/4	888.65	3/4	531.62	3/4	172.46	3/4		3/4			
6	2,305.62	6	1,946.45	6	1,587.28	6	1,228.11	6	881.47	6	524.13	6	164.97	6		6			
1/4	2,298.14	1/4	1,938.97	1/4	1,579.80	1/4	1,220.63	1/4	874.29	1/4	516.65	1/4	157.49	1/4		1/4			
1/2	2,290.65	1/2	1,931.48	1/2	1,572.31	1/2	1,213.14	1/2	867.11	1/2	509.17	1/2	150.01	1/2		1/2			
3/4	2,283.17	3/4	1,924.00	3/4	1,564.83	3/4	1,205.66	3/4	859.93	3/4	501.69	3/4	142.53	3/4		3/4			
7	2,275.69	7	1,916.52	7	1,557.35	7	1,198.18	7	852.76	7	494.20	7	135.04	7		7			
1/4	2,268.21	1/4	1,909.04	1/4	1,549.87	1/4	1,190.84	1/4	845.43	1/4	486.72	1/4	127.56	1/4		1/4			
1/2	2,260.72	1/2	1,901.55	1/2	1,542.38	1/2	1,183.50	1/2	838.09	1/2	479.24	1/2	120.08	1/2		1/2			
3/4	2,253.24	3/4	1,894.07	3/4	1,534.90	3/4	1,176.16	3/4	830.76	3/4	471.76	3/4	112.60	3/4		3/4			
8	2,245.76	8	1,886.59	8	1,527.42	8	1,168.81	8	823.43	8	464.27	8	105.11	8		8			
1/4	2,238.27	1/4	1,879.11	1/4	1,519.94	1/4	1,161.61	1/4	815.95	1/4	456.79	1/4	97.63	1/4		1/4			
1/2	2,230.79	1/2	1,871.62	1/2	1,512.45	1/2	1,154.41	1/2	808.47	1/2	449.31	1/2	90.15	1/2		1/2			
3/4	2,223.31	3/4	1,864.14	3/4	1,504.97	3/4	1,147.21	3/4	800.99	3/4	441.83	3/4	82.67	3/4		3/4			
9	2,215.83	9	1,856.66	9	1,497.49	9	1,140.01	9	793.50	9	434.34	9	75.18	9		9			
1/4	2,208.34	1/4	1,849.17	1/4	1,490.00	1/4	1,132.82	1/4	786.02	1/4	426.86	1/4	68.17	1/4		1/4			
1/2	2,200.86	1/2	1,841.69	1/2	1,482.52	1/2	1,125.63	1/2	778.54	1/2	419.38	1/2	61.16	1/2		1/2			
3/4	2,193.38	3/4	1,834.21	3/4	1,475.04	3/4	1,118.43	3/4	771.06	3/4	411.90	3/4	54.14	3/4		3/4			
10	2,185.90	10	1,826.73	10	1,467.56	10	1,111.24	10	763.57	10	404.41	10	47.13	10		10			
1/4	2,178.41	1/4	1,819.24	1/4	1,460.07	1/4	1,104.05	1/4	756.09	1/4	396.93	1/4	41.51	1/4		1/4			
1/2	2,170.93	1/2	1,811.76	1/2	1,452.59	1/2	1,096.87	1/2	748.61	1/2	389.45	1/2	35.90	1/2		1/2			
3/4	2,163.45	3/4	1,804.28	3/4	1,445.11	3/4	1,089.68	3/4	741.13	3/4	381.97	3/4	30.29	3/4		3/4			
11	2,155.97	11	1,796.80	11	1,437.63	11	1,082.49	11	733.64	11	374.48	11	24.68	11		11			
1/4	2,148.48	1/4	1,789.31	1/4	1,430.14	1/4	1,075.31	1/4	726.16	1/4	367.00	1/4	20.94	1/4		1/4			
1/2	2,141.00	1/2	1,781.83	1/2	1,422.66	1/2	1,068.13	1/2	718.68	1/2	359.52	1/2	17.20	1/2		1/2			
3/4	2,133.52	3/4	1,774.35	3/4	1,415.18	3/4	1,060.95	3/4	711.20	3/4	352.04	3/4	13.46	3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/19/2015 CL
CALCULATED: 08/21/2015 CL
REPRINTED: 08/16/2018 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2018

PRECISION MEASUREMENT
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HSM 3146 FORMERLY BARGE "HTCO 3146"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-01"

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	5,007.77	0	4,651.37	0	4,293.22	0	3,934.33	0	3,575.44	0	3,216.55	0	2,857.59
1/4		1/4		1/4		1/4	5,000.35	1/4	4,643.92	1/4	4,285.75	1/4	3,926.86	1/4	3,567.97	1/4	3,209.07	1/4	2,850.11
1/2		1/2		1/2		1/2	4,992.93	1/2	4,636.46	1/2	4,278.27	1/2	3,919.38	1/2	3,560.49	1/2	3,201.60	1/2	2,842.63
3/4		3/4		3/4		3/4	4,985.51	3/4	4,629.01	3/4	4,270.79	3/4	3,911.90	3/4	3,553.01	3/4	3,194.12	3/4	2,835.15
1		1		1		1	4,978.09	1	4,621.55	1	4,263.32	1	3,904.43	1	3,545.53	1	3,186.64	1	2,827.66
1/4		1/4		1/4		1/4	4,970.67	1/4	4,614.10	1/4	4,255.84	1/4	3,896.95	1/4	3,538.06	1/4	3,179.17	1/4	2,820.18
1/2		1/2		1/2		1/2	4,963.25	1/2	4,606.64	1/2	4,248.36	1/2	3,889.47	1/2	3,530.58	1/2	3,171.69	1/2	2,812.70
3/4		3/4		3/4		3/4	4,955.83	3/4	4,599.19	3/4	4,240.89	3/4	3,882.00	3/4	3,523.10	3/4	3,164.21	3/4	2,805.22
2		2		2		2	4,948.41	2	4,591.73	2	4,233.41	2	3,874.52	2	3,515.63	2	3,156.74	2	2,797.74
1/4		1/4		1/4		1/4	4,940.99	1/4	4,584.28	1/4	4,225.93	1/4	3,867.04	1/4	3,508.15	1/4	3,149.26	1/4	2,790.26
1/2		1/2		1/2		1/2	4,933.57	1/2	4,576.82	1/2	4,218.46	1/2	3,859.56	1/2	3,500.67	1/2	3,141.78	1/2	2,782.78
3/4		3/4		3/4		3/4	4,926.15	3/4	4,569.37	3/4	4,210.98	3/4	3,852.09	3/4	3,493.20	3/4	3,134.31	3/4	2,775.30
3		3		3		3	4,918.73	3	4,561.91	3	4,203.50	3	3,844.61	3	3,485.72	3	3,126.83	3	2,767.82
1/4		1/4		1/4		1/4	4,911.31	1/4	4,554.46	1/4	4,196.03	1/4	3,837.13	1/4	3,478.24	1/4	3,119.35	1/4	2,760.34
1/2		1/2		1/2		1/2	4,903.90	1/2	4,547.00	1/2	4,188.55	1/2	3,829.66	1/2	3,470.77	1/2	3,111.87	1/2	2,752.86
3/4		3/4		3/4		3/4	4,896.48	3/4	4,539.55	3/4	4,181.07	3/4	3,822.18	3/4	3,463.29	3/4	3,104.40	3/4	2,745.37
4		4		4		4	4,889.06	4	4,532.09	4	4,173.59	4	3,814.70	4	3,455.81	4	3,096.92	4	2,737.89
1/4		1/4		1/4		1/4	4,881.65	1/4	4,524.64	1/4	4,166.12	1/4	3,807.23	1/4	3,448.34	1/4	3,089.44	1/4	2,730.41
1/2		1/2		1/2		1/2	4,874.23	1/2	4,517.18	1/2	4,158.64	1/2	3,799.75	1/2	3,440.86	1/2	3,081.97	1/2	2,722.93
3/4		3/4		3/4		3/4	4,866.82	3/4	4,509.72	3/4	4,151.16	3/4	3,792.27	3/4	3,433.38	3/4	3,074.49	3/4	2,715.45
5		5		5	5,138.03	5	4,859.40	5	4,502.27	5	4,143.89	5	3,784.80	5	3,425.90	5	3,067.01	5	2,707.97
1/4		1/4		1/4	5,136.49	1/4	4,851.99	1/4	4,494.81	1/4	4,136.21	1/4	3,777.32	1/4	3,418.43	1/4	3,059.54	1/4	2,700.49
1/2		1/2		1/2	5,134.95	1/2	4,844.57	1/2	4,487.36	1/2	4,128.73	1/2	3,769.84	1/2	3,410.95	1/2	3,052.06	1/2	2,693.01
3/4		3/4		3/4	5,133.41	3/4	4,837.15	3/4	4,479.90	3/4	4,121.26	3/4	3,762.36	3/4	3,403.47	3/4	3,044.58	3/4	2,685.53
6		6		6	5,131.86	6	4,829.74	6	4,472.45	6	4,113.78	6	3,754.89	6	3,396.00	6	3,037.11	6	2,678.05
1/4		1/4		1/4	5,129.25	1/4	4,822.32	1/4	4,464.99	1/4	4,106.30	1/4	3,747.41	1/4	3,388.52	1/4	3,029.63	1/4	2,670.57
1/2		1/2		1/2	5,126.64	1/2	4,814.91	1/2	4,457.54	1/2	4,098.83	1/2	3,739.93	1/2	3,381.04	1/2	3,022.15	1/2	2,663.08
3/4		3/4		3/4	5,124.03	3/4	4,807.49	3/4	4,450.08	3/4	4,091.35	3/4	3,732.46	3/4	3,373.57	3/4	3,014.67	3/4	2,655.60
7		7		7	5,121.42	7	4,800.08	7	4,442.63	7	4,083.87	7	3,724.98	7	3,366.09	7	3,007.20	7	2,648.12
1/4		1/4		1/4	5,117.74	1/4	4,792.66	1/4	4,435.17	1/4	4,076.39	1/4	3,717.50	1/4	3,358.61	1/4	2,999.72	1/4	2,640.64
1/2		1/2		1/2	5,114.06	1/2	4,785.25	1/2	4,427.72	1/2	4,068.92	1/2	3,710.03	1/2	3,351.14	1/2	2,992.24	1/2	2,633.16
3/4		3/4		3/4	5,110.39	3/4	4,777.83	3/4	4,420.26	3/4	4,061.44	3/4	3,702.55	3/4	3,343.66	3/4	2,984.76	3/4	2,625.68
8		8		8	5,106.71	8	4,770.42	8	4,412.81	8	4,053.96	8	3,695.07	8	3,336.18	8	2,977.28	8	2,618.20
1/4		1/4		1/4	5,101.96	1/4	4,763.00	1/4	4,405.34	1/4	4,046.49	1/4	3,687.60	1/4	3,328.70	1/4	2,969.80	1/4	2,610.72
1/2		1/2		1/2	5,097.21	1/2	4,755.59	1/2	4,397.88	1/2	4,039.01	1/2	3,680.12	1/2	3,321.23	1/2	2,962.32	1/2	2,603.24
3/4		3/4		3/4	5,092.46	3/4	4,748.17	3/4	4,390.41	3/4	4,031.53	3/4	3,672.64	3/4	3,313.75	3/4	2,954.84	3/4	2,595.76
9		9		9	5,087.72	9	4,740.75	9	4,382.95	9	4,024.06	9	3,665.17	9	3,306.27	9	2,947.36	9	2,588.28
1/4		1/4		1/4	5,081.90	1/4	4,733.32	1/4	4,375.47	1/4	4,016.58	1/4	3,657.69	1/4	3,298.80	1/4	2,939.88	1/4	2,580.79
1/2		1/2		1/2	5,076.08	1/2	4,725.88	1/2	4,367.99	1/2	4,009.10	1/2	3,650.21	1/2	3,291.32	1/2	2,932.40	1/2	2,573.31
3/4		3/4		3/4	5,070.27	3/4	4,718.45	3/4	4,360.52	3/4	4,001.63	3/4	3,642.73	3/4	3,283.84	3/4	2,924.92	3/4	2,565.83
10		10		10	5,064.45	10	4,711.02	10	4,353.04	10	3,994.15	10	3,635.26	10	3,276.37	10	2,917.44	10	2,558.35
1/4		1/4		1/4	5,057.63	1/4	4,703.56	1/4	4,345.56	1/4	3,986.67	1/4	3,627.78	1/4	3,268.89	1/4	2,909.95	1/4	2,550.87
1/2		1/2		1/2	5,050.81	1/2	4,696.10	1/2	4,338.09	1/2	3,979.20	1/2	3,620.30	1/2	3,261.41	1/2	2,902.47	1/2	2,543.39
3/4		3/4		3/4	5,044.00	3/4	4,688.65	3/4	4,330.61	3/4	3,971.72	3/4	3,612.83	3/4	3,253.94	3/4	2,894.99	3/4	2,535.91
11		11		11	5,037.18	11	4,681.19	11	4,323.13	11	3,964.24	11	3,605.35	11	3,246.46	11	2,887.51	11	2,528.43
1/4		1/4		1/4	5,029.82	1/4	4,673.74	1/4	4,315.66	1/4	3,956.76	1/4	3,597.87	1/4	3,238.98	1/4	2,880.03	1/4	2,520.95
1/2		1/2		1/2	5,022.47	1/2	4,666.28	1/2	4,308.18	1/2	3,949.29	1/2	3,590.40	1/2	3,231.50	1/2	2,872.55	1/2	2,513.47
3/4		3/4		3/4	5,015.12	3/4	4,658.83	3/4	4,300.70	3/4	3,941.81	3/4	3,582.92	3/4	3,224.03	3/4	2,865.07	3/4	2,505.99

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 TOP LIP 2" HERMETIC VALVE.

GAUGE POINT: (HERMETIC) LOCATED 03'-00" OFF CENTERLINE AND 01'-00" FORWARD OF AFT BULKHEAD.

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



HSM 3146 FORMERLY BARGE "HTCO 3146"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-01"

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	2,498.50	0	2,139.42	0	1,780.34	0	1,421.26	0	1,062.24	0	703.55	0	344.48	0	9.72	0			
1/4	2,491.02	1/4	2,131.94	1/4	1,772.86	1/4	1,413.77	1/4	1,054.77	1/4	696.07	1/4	337.00	1/4	7.85	1/4			1/4
1/2	2,483.54	1/2	2,124.46	1/2	1,765.38	1/2	1,406.29	1/2	1,047.31	1/2	688.59	1/2	329.52	1/2	5.98	1/2			1/2
3/4	2,476.06	3/4	2,116.98	3/4	1,757.90	3/4	1,398.81	3/4	1,039.84	3/4	681.11	3/4	322.04	3/4	4.11	3/4			3/4
1	2,468.58	1	2,109.50	1	1,750.41	1	1,391.33	1	1,032.37	1	673.63	1	314.56	1	2.24	1			1
1/4	2,461.10	1/4	2,102.02	1/4	1,742.93	1/4	1,383.85	1/4	1,024.90	1/4	666.15	1/4	307.08	1/4		1/4			1/4
1/2	2,453.62	1/2	2,094.54	1/2	1,735.45	1/2	1,376.37	1/2	1,017.43	1/2	658.67	1/2	299.60	1/2		1/2			1/2
3/4	2,446.14	3/4	2,087.06	3/4	1,727.97	3/4	1,368.89	3/4	1,009.97	3/4	651.19	3/4	292.12	3/4		3/4			3/4
2	2,438.66	2	2,079.57	2	1,720.49	2	1,361.41	2	1,002.50	2	643.71	2	284.64	2		2			2
1/4	2,431.18	1/4	2,072.09	1/4	1,713.01	1/4	1,353.93	1/4	995.03	1/4	636.23	1/4	277.15	1/4		1/4			1/4
1/2	2,423.70	1/2	2,064.61	1/2	1,705.53	1/2	1,346.45	1/2	987.56	1/2	628.75	1/2	269.67	1/2		1/2			1/2
3/4	2,416.21	3/4	2,057.13	3/4	1,698.05	3/4	1,338.97	3/4	980.09	3/4	621.27	3/4	262.19	3/4		3/4			3/4
3	2,408.73	3	2,049.65	3	1,690.57	3	1,331.48	3	972.63	3	613.79	3	254.71	3		3			3
1/4	2,401.25	1/4	2,042.17	1/4	1,683.09	1/4	1,324.00	1/4	965.16	1/4	606.31	1/4	247.23	1/4		1/4			1/4
1/2	2,393.77	1/2	2,034.69	1/2	1,675.61	1/2	1,316.52	1/2	957.69	1/2	598.82	1/2	239.75	1/2		1/2			1/2
3/4	2,386.29	3/4	2,027.21	3/4	1,668.12	3/4	1,309.04	3/4	950.22	3/4	591.34	3/4	232.27	3/4		3/4			3/4
4	2,378.81	4	2,019.73	4	1,660.64	4	1,301.56	4	942.76	4	583.86	4	224.79	4		4			4
1/4	2,371.33	1/4	2,012.25	1/4	1,653.16	1/4	1,294.08	1/4	935.29	1/4	576.38	1/4	217.31	1/4		1/4			1/4
1/2	2,363.85	1/2	2,004.77	1/2	1,645.68	1/2	1,286.60	1/2	927.82	1/2	568.90	1/2	209.83	1/2		1/2			1/2
3/4	2,356.37	3/4	1,997.28	3/4	1,638.20	3/4	1,279.12	3/4	920.35	3/4	561.42	3/4	202.35	3/4		3/4			3/4
5	2,348.89	5	1,989.80	5	1,630.72	5	1,271.64	5	912.88	5	553.94	5	194.87	5		5			5
1/4	2,341.41	1/4	1,982.32	1/4	1,623.24	1/4	1,264.16	1/4	905.42	1/4	546.46	1/4	187.39	1/4		1/4			1/4
1/2	2,333.92	1/2	1,974.84	1/2	1,615.76	1/2	1,256.68	1/2	897.95	1/2	538.98	1/2	179.91	1/2		1/2			1/2
3/4	2,326.44	3/4	1,967.36	3/4	1,608.28	3/4	1,249.19	3/4	890.48	3/4	531.50	3/4	172.42	3/4		3/4			3/4
6	2,318.96	6	1,959.88	6	1,600.80	6	1,241.71	6	883.01	6	524.02	6	164.94	6		6			6
1/4	2,311.48	1/4	1,952.40	1/4	1,593.32	1/4	1,234.23	1/4	875.54	1/4	516.54	1/4	157.46	1/4		1/4			1/4
1/2	2,304.00	1/2	1,944.92	1/2	1,585.83	1/2	1,226.75	1/2	868.08	1/2	509.06	1/2	149.98	1/2		1/2			1/2
3/4	2,296.52	3/4	1,937.44	3/4	1,578.35	3/4	1,219.27	3/4	860.61	3/4	501.58	3/4	142.50	3/4		3/4			3/4
7	2,289.04	7	1,929.96	7	1,570.87	7	1,211.79	7	853.14	7	494.09	7	135.02	7		7			7
1/4	2,281.56	1/4	1,922.48	1/4	1,563.39	1/4	1,204.31	1/4	845.67	1/4	486.61	1/4	127.54	1/4		1/4			1/4
1/2	2,274.08	1/2	1,914.99	1/2	1,555.91	1/2	1,196.83	1/2	838.19	1/2	479.13	1/2	120.06	1/2		1/2			1/2
3/4	2,266.60	3/4	1,907.51	3/4	1,548.43	3/4	1,189.35	3/4	830.72	3/4	471.65	3/4	112.58	3/4		3/4			3/4
8	2,259.12	8	1,900.03	8	1,540.95	8	1,181.87	8	823.25	8	464.17	8	105.10	8		8			8
1/4	2,251.64	1/4	1,892.55	1/4	1,533.47	1/4	1,174.39	1/4	815.76	1/4	456.69	1/4	97.62	1/4		1/4			1/4
1/2	2,244.15	1/2	1,885.07	1/2	1,525.99	1/2	1,166.90	1/2	808.28	1/2	449.21	1/2	90.14	1/2		1/2			1/2
3/4	2,236.67	3/4	1,877.59	3/4	1,518.51	3/4	1,159.42	3/4	800.80	3/4	441.73	3/4	82.66	3/4		3/4			3/4
9	2,229.19	9	1,870.11	9	1,511.03	9	1,151.94	9	793.32	9	434.25	9	75.18	9		9			9
1/4	2,221.71	1/4	1,862.63	1/4	1,503.55	1/4	1,144.46	1/4	785.84	1/4	426.77	1/4	68.16	1/4		1/4			1/4
1/2	2,214.23	1/2	1,855.15	1/2	1,496.06	1/2	1,136.99	1/2	778.36	1/2	419.29	1/2	61.15	1/2		1/2			1/2
3/4	2,206.75	3/4	1,847.67	3/4	1,488.58	3/4	1,129.51	3/4	770.88	3/4	411.81	3/4	54.14	3/4		3/4			3/4
10	2,199.27	10	1,840.19	10	1,481.10	10	1,122.03	10	763.40	10	404.33	10	47.12	10		10			10
1/4	2,191.79	1/4	1,832.70	1/4	1,473.62	1/4	1,114.56	1/4	755.92	1/4	396.85	1/4	41.51	1/4		1/4			1/4
1/2	2,184.31	1/2	1,825.22	1/2	1,466.14	1/2	1,107.08	1/2	748.44	1/2	389.36	1/2	35.90	1/2		1/2			1/2
3/4	2,176.83	3/4	1,817.74	3/4	1,458.66	3/4	1,099.60	3/4	740.96	3/4	381.88	3/4	30.29	3/4		3/4			3/4
11	2,169.35	11	1,810.26	11	1,451.18	11	1,092.13	11	733.48	11	374.40	11	24.68	11		11			11
1/4	2,161.86	1/4	1,802.78	1/4	1,443.70	1/4	1,084.66	1/4	726.00	1/4	366.92	1/4	20.94	1/4		1/4			1/4
1/2	2,154.38	1/2	1,795.30	1/2	1,436.22	1/2	1,077.19	1/2	718.52	1/2	359.44	1/2	17.20	1/2		1/2			1/2
3/4	2,146.90	3/4	1,787.82	3/4	1,428.74	3/4	1,069.71	3/4	711.04	3/4	351.96	3/4	13.46	3/4		3/4			3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/19/2015 CL
CALCULATED: 08/21/2015 CL
REPRINTED: 08/16/2018 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2018

PRECISION MEASUREMENT
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HSM 3146 FORMERLY BARGE "HTCO 3146"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-01 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	4,538.44	0	4,293.47	0	4,047.13	0	3,800.28	0	3,547.72	0	3,193.58	0	2,837.53
1/4		1/4		1/4		1/4	4,533.41	1/4	4,288.34	1/4	4,041.99	1/4	3,795.14	1/4	3,540.87	1/4	3,186.16	1/4	2,830.11
1/2		1/2		1/2		1/2	4,528.37	1/2	4,283.21	1/2	4,036.84	1/2	3,789.99	1/2	3,534.02	1/2	3,178.74	1/2	2,822.69
3/4		3/4		3/4		3/4	4,523.26	3/4	4,278.08	3/4	4,031.70	3/4	3,784.85	3/4	3,526.62	3/4	3,171.32	3/4	2,815.27
1		1		1		1	4,518.16	1	4,272.95	1	4,026.56	1	3,779.71	1	3,519.21	1	3,163.91	1	2,807.86
1/4		1/4		1/4		1/4	4,513.06	1/4	4,267.83	1/4	4,021.41	1/4	3,774.57	1/4	3,511.80	1/4	3,156.49	1/4	2,800.44
1/2		1/2		1/2		1/2	4,507.95	1/2	4,262.70	1/2	4,016.27	1/2	3,769.42	1/2	3,504.39	1/2	3,149.07	1/2	2,793.02
3/4		3/4		3/4		3/4	4,502.85	3/4	4,257.57	3/4	4,011.13	3/4	3,764.28	3/4	3,496.99	3/4	3,141.66	3/4	2,785.60
2		2		2		2	4,497.75	2	4,252.44	2	4,005.99	2	3,759.14	2	3,489.59	2	3,134.24	2	2,778.18
1/4		1/4		1/4		1/4	4,492.64	1/4	4,247.31	1/4	4,000.84	1/4	3,753.99	1/4	3,482.19	1/4	3,126.82	1/4	2,770.76
1/2		1/2		1/2		1/2	4,487.54	1/2	4,242.18	1/2	3,995.70	1/2	3,748.85	1/2	3,474.79	1/2	3,119.41	1/2	2,763.34
3/4		3/4		3/4		3/4	4,482.44	3/4	4,237.06	3/4	3,990.56	3/4	3,743.71	3/4	3,467.39	3/4	3,111.99	3/4	2,755.92
3		3		3		3	4,477.33	3	4,231.93	3	3,985.42	3	3,738.57	3	3,460.00	3	3,104.57	3	2,748.50
1/4		1/4		1/4		1/4	4,472.23	1/4	4,226.80	1/4	3,980.27	1/4	3,733.42	1/4	3,452.60	1/4	3,097.16	1/4	2,741.08
1/2		1/2		1/2		1/2	4,467.12	1/2	4,221.67	1/2	3,975.13	1/2	3,728.28	1/2	3,445.20	1/2	3,089.74	1/2	2,733.66
3/4		3/4		3/4		3/4	4,462.02	3/4	4,216.54	3/4	3,969.99	3/4	3,723.14	3/4	3,437.81	3/4	3,082.32	3/4	2,726.24
4		4		4		4	4,456.92	4	4,211.41	4	3,964.85	4	3,718.00	4	3,430.41	4	3,074.91	4	2,718.82
1/4		1/4		1/4		1/4	4,451.82	1/4	4,206.29	1/4	3,959.70	1/4	3,712.85	1/4	3,423.02	1/4	3,067.49	1/4	2,711.40
1/2		1/2		1/2		1/2	4,446.72	1/2	4,201.16	1/2	3,954.56	1/2	3,707.71	1/2	3,415.62	1/2	3,060.07	1/2	2,703.98
3/4		3/4		3/4		3/4	4,441.61	3/4	4,196.03	3/4	3,949.42	3/4	3,702.57	3/4	3,408.22	3/4	3,052.66	3/4	2,696.56
5		5		5		5	4,436.51	5	4,190.90	5	3,944.27	5	3,697.42	5	3,400.83	5	3,045.24	5	2,689.14
1/4		1/4		1/4		1/4	4,431.41	1/4	4,185.77	1/4	3,939.13	1/4	3,692.28	1/4	3,393.43	1/4	3,037.82	1/4	2,681.73
1/2		1/2		1/2	4,600.80	1/2	4,426.31	1/2	4,180.64	1/2	3,933.99	1/2	3,687.14	1/2	3,386.04	1/2	3,030.41	1/2	2,674.31
3/4		3/4		3/4	4,600.47	3/4	4,421.21	3/4	4,175.52	3/4	3,928.85	3/4	3,682.00	3/4	3,378.64	3/4	3,022.99	3/4	2,666.89
6		6		6	4,600.14	6	4,416.11	6	4,170.39	6	3,923.70	6	3,676.85	6	3,371.24	6	3,015.57	6	2,659.47
1/4		1/4		1/4	4,599.43	1/4	4,411.01	1/4	4,165.26	1/4	3,918.56	1/4	3,671.71	1/4	3,363.85	1/4	3,008.16	1/4	2,652.05
1/2		1/2		1/2	4,598.72	1/2	4,405.91	1/2	4,160.13	1/2	3,913.42	1/2	3,666.57	1/2	3,356.45	1/2	3,000.74	1/2	2,644.63
3/4		3/4		3/4	4,598.01	3/4	4,400.81	3/4	4,155.00	3/4	3,908.28	3/4	3,661.43	3/4	3,349.06	3/4	2,993.32	3/4	2,637.21
7		7		7	4,597.30	7	4,395.71	7	4,149.87	7	3,903.13	7	3,656.28	7	3,341.66	7	2,985.91	7	2,629.79
1/4		1/4		1/4	4,596.59	1/4	4,390.60	1/4	4,144.75	1/4	3,897.99	1/4	3,651.14	1/4	3,334.26	1/4	2,978.49	1/4	2,622.37
1/2		1/2		1/2	4,595.89	1/2	4,385.50	1/2	4,139.62	1/2	3,892.85	1/2	3,646.00	1/2	3,326.87	1/2	2,971.07	1/2	2,614.95
3/4		3/4		3/4	4,594.50	3/4	4,380.40	3/4	4,134.49	3/4	3,887.70	3/4	3,640.85	3/4	3,319.47	3/4	2,963.66	3/4	2,607.53
8		8		8	4,593.12	8	4,375.30	8	4,129.36	8	3,882.56	8	3,635.71	8	3,312.08	8	2,956.24	8	2,600.10
1/4		1/4		1/4	4,591.74	1/4	4,370.20	1/4	4,124.23	1/4	3,877.42	1/4	3,630.57	1/4	3,304.68	1/4	2,948.82	1/4	2,592.68
1/2		1/2		1/2	4,590.36	1/2	4,365.10	1/2	4,119.10	1/2	3,872.28	1/2	3,625.43	1/2	3,297.28	1/2	2,941.40	1/2	2,585.26
3/4		3/4		3/4	4,587.91	3/4	4,360.00	3/4	4,113.97	3/4	3,867.13	3/4	3,620.28	3/4	3,289.89	3/4	2,933.98	3/4	2,577.83
9		9		9	4,585.47	9	4,354.90	9	4,108.83	9	3,861.99	9	3,615.14	9	3,282.49	9	2,926.57	9	2,570.41
1/4		1/4		1/4	4,583.02	1/4	4,349.80	1/4	4,103.69	1/4	3,856.85	1/4	3,610.00	1/4	3,275.10	1/4	2,919.15	1/4	2,562.98
1/2		1/2		1/2	4,580.57	1/2	4,344.70	1/2	4,098.56	1/2	3,851.71	1/2	3,604.86	1/2	3,267.70	1/2	2,911.73	1/2	2,555.55
3/4		3/4		3/4	4,577.07	3/4	4,339.58	3/4	4,093.41	3/4	3,846.56	3/4	3,599.71	3/4	3,260.29	3/4	2,904.31	3/4	2,548.13
10		10		10	4,573.56	10	4,334.47	10	4,088.27	10	3,841.42	10	3,594.57	10	3,252.89	10	2,896.89	10	2,540.70
1/4		1/4		1/4	4,570.05	1/4	4,329.35	1/4	4,083.13	1/4	3,836.28	1/4	3,589.43	1/4	3,245.48	1/4	2,889.47	1/4	2,533.27
1/2		1/2		1/2	4,566.54	1/2	4,324.24	1/2	4,077.98	1/2	3,831.13	1/2	3,584.29	1/2	3,238.08	1/2	2,882.05	1/2	2,525.85
3/4		3/4		3/4	4,562.03	3/4	4,319.11	3/4	4,072.84	3/4	3,825.99	3/4	3,578.57	3/4	3,230.66	3/4	2,874.63	3/4	2,518.42
11		11		11	4,557.53	11	4,313.98	11	4,067.70	11	3,820.85	11	3,572.85	11	3,223.24	11	2,867.21	11	2,510.99
1/4		1/4		1/4	4,553.02	1/4	4,308.85	1/4	4,062.56	1/4	3,815.71	1/4	3,567.14	1/4	3,215.83	1/4	2,859.79	1/4	2,503.57
1/2		1/2		1/2	4,548.52	1/2	4,303.72	1/2	4,057.41	1/2	3,810.56	1/2	3,561.42	1/2	3,208.41	1/2	2,852.37	1/2	2,496.14
3/4		3/4		3/4	4,543.48	3/4	4,298.59	3/4	4,052.27	3/4	3,805.42	3/4	3,554.57	3/4	3,200.99	3/4	2,844.95	3/4	2,488.73

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 TOP LIP 2" HERMETIC VALVE.

GAUGE POINT: (HERMETIC) LOCATED 03'-00" OFF CENTERLINE AND 84'-07" FORWARD OF AFT BULKHEAD.

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



HSM 3146 FORMERLY BARGE "HTCO 3146"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-01 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	2,481.32	0	2,127.04	0	1,772.57	0	1,416.09	0	1,063.07	0	713.86	0	357.20	0	17.11	0		0	
1/4	2,473.92	1/4	2,119.67	1/4	1,765.14	1/4	1,408.66	1/4	1,055.87	1/4	706.43	1/4	349.77	1/4	13.39	1/4		1/4	
1/2	2,466.51	1/2	2,112.31	1/2	1,757.72	1/2	1,401.23	1/2	1,048.67	1/2	699.00	1/2	342.34	1/2	9.67	1/2		1/2	
3/4	2,459.12	3/4	2,104.95	3/4	1,750.29	3/4	1,393.81	3/4	1,041.47	3/4	691.57	3/4	334.91	3/4	7.80	3/4		3/4	
1	2,451.73	1	2,097.58	1	1,742.86	1	1,386.38	1	1,034.27	1	684.14	1	327.48	1	5.94	1		1	
1/4	2,444.34	1/4	2,090.22	1/4	1,735.44	1/4	1,378.95	1/4	1,027.08	1/4	676.71	1/4	320.05	1/4	4.08	1/4		1/4	
1/2	2,436.96	1/2	2,082.86	1/2	1,728.01	1/2	1,371.53	1/2	1,019.88	1/2	669.28	1/2	312.62	1/2	2.23	1/2		1/2	
3/4	2,429.57	3/4	2,075.49	3/4	1,720.58	3/4	1,364.10	3/4	1,012.68	3/4	661.85	3/4	305.19	3/4		3/4		3/4	
2	2,422.18	2	2,068.13	2	1,713.16	2	1,356.67	2	1,005.48	2	654.41	2	297.76	2		2		2	
1/4	2,414.79	1/4	2,060.76	1/4	1,705.73	1/4	1,349.25	1/4	998.29	1/4	646.98	1/4	290.33	1/4		1/4		1/4	
1/2	2,407.40	1/2	2,053.40	1/2	1,698.30	1/2	1,341.82	1/2	991.09	1/2	639.55	1/2	282.90	1/2		1/2		1/2	
3/4	2,400.01	3/4	2,046.04	3/4	1,690.88	3/4	1,334.39	3/4	983.89	3/4	632.12	3/4	275.48	3/4		3/4		3/4	
3	2,392.63	3	2,038.67	3	1,683.45	3	1,326.97	3	976.70	3	624.69	3	268.05	3		3		3	
1/4	2,385.24	1/4	2,031.31	1/4	1,676.02	1/4	1,319.54	1/4	969.50	1/4	617.26	1/4	260.62	1/4		1/4		1/4	
1/2	2,377.85	1/2	2,023.95	1/2	1,668.60	1/2	1,312.11	1/2	962.30	1/2	609.83	1/2	253.19	1/2		1/2		1/2	
3/4	2,370.46	3/4	2,016.58	3/4	1,661.17	3/4	1,304.69	3/4	955.11	3/4	602.40	3/4	245.76	3/4		3/4		3/4	
4	2,363.07	4	2,009.22	4	1,653.74	4	1,297.26	4	947.91	4	594.97	4	238.33	4		4		4	
1/4	2,355.69	1/4	2,001.85	1/4	1,646.32	1/4	1,289.83	1/4	940.71	1/4	587.54	1/4	230.90	1/4		1/4		1/4	
1/2	2,348.30	1/2	1,994.49	1/2	1,638.89	1/2	1,282.41	1/2	933.51	1/2	580.11	1/2	223.47	1/2		1/2		1/2	
3/4	2,340.91	3/4	1,987.13	3/4	1,631.46	3/4	1,274.98	3/4	926.32	3/4	572.67	3/4	216.03	3/4		3/4		3/4	
5	2,333.52	5	1,979.76	5	1,624.04	5	1,267.55	5	919.12	5	565.24	5	208.60	5		5		5	
1/4	2,326.13	1/4	1,972.40	1/4	1,616.61	1/4	1,260.13	1/4	911.92	1/4	557.81	1/4	201.17	1/4		1/4		1/4	
1/2	2,318.74	1/2	1,965.03	1/2	1,609.18	1/2	1,252.70	1/2	904.73	1/2	550.38	1/2	193.74	1/2		1/2		1/2	
3/4	2,311.36	3/4	1,957.67	3/4	1,601.76	3/4	1,245.27	3/4	897.53	3/4	542.95	3/4	186.31	3/4		3/4		3/4	
6	2,303.97	6	1,950.31	6	1,594.33	6	1,237.85	6	890.33	6	535.52	6	178.88	6		6		6	
1/4	2,296.58	1/4	1,942.94	1/4	1,586.90	1/4	1,230.42	1/4	883.13	1/4	528.09	1/4	171.45	1/4		1/4		1/4	
1/2	2,289.19	1/2	1,935.58	1/2	1,579.48	1/2	1,222.99	1/2	875.94	1/2	520.66	1/2	164.02	1/2		1/2		1/2	
3/4	2,281.80	3/4	1,928.22	3/4	1,572.05	3/4	1,215.57	3/4	868.74	3/4	513.23	3/4	156.58	3/4		3/4		3/4	
7	2,274.42	7	1,920.85	7	1,564.62	7	1,208.14	7	861.54	7	505.80	7	149.15	7		7		7	
1/4	2,267.03	1/4	1,913.49	1/4	1,557.20	1/4	1,200.71	1/4	854.35	1/4	498.37	1/4	141.72	1/4		1/4		1/4	
1/2	2,259.64	1/2	1,906.12	1/2	1,549.77	1/2	1,193.29	1/2	847.15	1/2	490.93	1/2	134.29	1/2		1/2		1/2	
3/4	2,252.26	3/4	1,898.73	3/4	1,542.34	3/4	1,185.97	3/4	839.84	3/4	483.50	3/4	126.85	3/4		3/4		3/4	
8	2,244.89	8	1,891.33	8	1,534.92	8	1,178.64	8	832.52	8	476.07	8	119.42	8		8		8	
1/4	2,237.51	1/4	1,883.94	1/4	1,527.49	1/4	1,171.32	1/4	825.21	1/4	468.64	1/4	111.98	1/4		1/4		1/4	
1/2	2,230.13	1/2	1,876.54	1/2	1,520.06	1/2	1,164.00	1/2	817.89	1/2	461.22	1/2	104.55	1/2		1/2		1/2	
3/4	2,222.77	3/4	1,869.12	3/4	1,512.64	3/4	1,156.78	3/4	810.46	3/4	453.79	3/4	97.11	3/4		3/4		3/4	
9	2,215.40	9	1,861.69	9	1,505.21	9	1,149.57	9	803.03	9	446.36	9	89.67	9		9		9	
1/4	2,208.04	1/4	1,854.26	1/4	1,497.78	1/4	1,142.35	1/4	795.60	1/4	438.93	1/4	82.23	1/4		1/4		1/4	
1/2	2,200.68	1/2	1,846.84	1/2	1,490.36	1/2	1,135.13	1/2	788.17	1/2	431.50	1/2	74.79	1/2		1/2		1/2	
3/4	2,193.31	3/4	1,839.41	3/4	1,482.93	3/4	1,127.92	3/4	780.74	3/4	424.07	3/4	67.81	3/4		3/4		3/4	
10	2,185.95	10	1,831.98	10	1,475.50	10	1,120.71	10	773.31	10	416.64	10	60.83	10		10		10	
1/4	2,178.58	1/4	1,824.56	1/4	1,468.08	1/4	1,113.50	1/4	765.88	1/4	409.21	1/4	53.85	1/4		1/4		1/4	
1/2	2,171.22	1/2	1,817.13	1/2	1,460.65	1/2	1,106.29	1/2	758.45	1/2	401.78	1/2	46.88	1/2		1/2		1/2	
3/4	2,163.86	3/4	1,809.70	3/4	1,453.22	3/4	1,099.09	3/4	751.02	3/4	394.35	3/4	41.30	3/4		3/4		3/4	
11	2,156.49	11	1,802.28	11	1,445.79	11	1,091.88	11	743.58	11	386.92	11	35.71	11		11		11	
1/4	2,149.13	1/4	1,794.85	1/4	1,438.37	1/4	1,084.68	1/4	736.15	1/4	379.49	1/4	30.13	1/4		1/4		1/4	
1/2	2,141.77	1/2	1,787.42	1/2	1,430.94	1/2	1,077.47	1/2	728.72	1/2	372.06	1/2	24.55	1/2		1/2		1/2	
3/4	2,134.40	3/4	1,780.00	3/4	1,423.51	3/4	1,070.27	3/4	721.29	3/4	364.63	3/4	20.83	3/4		3/4		3/4	

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REPRINTED: 08/16/2018 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2018

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
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HSM 3146 FORMERLY BARGE "HTCO 3146"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-01 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	4,563.58	0	4,318.36	0	4,071.78	0	3,824.68	0	3,571.87	0	3,216.78	0	2,859.70
1/4		1/4		1/4		1/4	4,558.54	1/4	4,313.23	1/4	4,066.63	1/4	3,819.53	1/4	3,565.02	1/4	3,209.34	1/4	2,852.26
1/2		1/2		1/2		1/2	4,553.50	1/2	4,308.10	1/2	4,061.48	1/2	3,814.39	1/2	3,558.16	1/2	3,201.90	1/2	2,844.82
3/4		3/4		3/4		3/4	4,548.39	3/4	4,302.96	3/4	4,056.34	3/4	3,809.24	3/4	3,550.74	3/4	3,194.47	3/4	2,837.37
1		1		1		1	4,543.28	1	4,297.83	1	4,051.19	1	3,804.09	1	3,543.32	1	3,187.03	1	2,829.93
1/4		1/4		1/4		1/4	4,538.17	1/4	4,292.70	1/4	4,046.04	1/4	3,798.94	1/4	3,535.91	1/4	3,179.59	1/4	2,822.49
1/2		1/2		1/2		1/2	4,533.06	1/2	4,287.56	1/2	4,040.89	1/2	3,793.79	1/2	3,528.49	1/2	3,172.15	1/2	2,815.05
3/4		3/4		3/4		3/4	4,527.96	3/4	4,282.43	3/4	4,035.75	3/4	3,788.65	3/4	3,521.07	3/4	3,164.71	3/4	2,807.61
2		2		2		2	4,522.85	2	4,277.30	2	4,030.60	2	3,783.50	2	3,513.65	2	3,157.27	2	2,800.17
1/4		1/4		1/4		1/4	4,517.74	1/4	4,272.16	1/4	4,025.45	1/4	3,778.35	1/4	3,506.24	1/4	3,149.84	1/4	2,792.73
1/2		1/2		1/2		1/2	4,512.63	1/2	4,267.03	1/2	4,020.30	1/2	3,773.20	1/2	3,498.82	1/2	3,142.40	1/2	2,785.29
3/4		3/4		3/4		3/4	4,507.52	3/4	4,261.89	3/4	4,015.15	3/4	3,768.05	3/4	3,491.40	3/4	3,134.96	3/4	2,777.85
3		3		3		3	4,502.41	3	4,256.76	3	4,010.01	3	3,762.91	3	3,483.98	3	3,127.52	3	2,770.41
1/4		1/4		1/4		1/4	4,497.30	1/4	4,251.63	1/4	4,004.86	1/4	3,757.76	1/4	3,476.56	1/4	3,120.08	1/4	2,762.96
1/2		1/2		1/2		1/2	4,492.19	1/2	4,246.49	1/2	3,999.71	1/2	3,752.61	1/2	3,469.15	1/2	3,112.64	1/2	2,755.52
3/4		3/4		3/4		3/4	4,487.09	3/4	4,241.36	3/4	3,994.56	3/4	3,747.46	3/4	3,461.73	3/4	3,105.21	3/4	2,748.08
4		4		4		4	4,481.98	4	4,236.23	4	3,989.41	4	3,742.32	4	3,454.31	4	3,097.77	4	2,740.64
1/4		1/4		1/4		1/4	4,476.87	1/4	4,231.09	1/4	3,984.27	1/4	3,737.17	1/4	3,446.89	1/4	3,090.33	1/4	2,733.20
1/2		1/2		1/2		1/2	4,471.76	1/2	4,225.96	1/2	3,979.12	1/2	3,732.02	1/2	3,439.48	1/2	3,082.89	1/2	2,725.76
3/4		3/4		3/4		3/4	4,466.66	3/4	4,220.83	3/4	3,973.97	3/4	3,726.87	3/4	3,432.06	3/4	3,075.45	3/4	2,718.32
5		5		5		5	4,461.55	5	4,215.69	5	3,968.82	5	3,721.72	5	3,424.64	5	3,068.01	5	2,710.88
1/4		1/4		1/4		1/4	4,456.45	1/4	4,210.56	1/4	3,963.67	1/4	3,716.58	1/4	3,417.22	1/4	3,060.57	1/4	2,703.44
1/2		1/2		1/2	4,625.97	1/2	4,451.34	1/2	4,205.43	1/2	3,958.53	1/2	3,711.43	1/2	3,409.81	1/2	3,053.14	1/2	2,695.99
3/4		3/4		3/4	4,625.66	3/4	4,446.23	3/4	4,200.29	3/4	3,953.38	3/4	3,706.28	3/4	3,402.39	3/4	3,045.70	3/4	2,688.55
6		6		6	4,625.35	6	4,441.13	6	4,195.16	6	3,948.23	6	3,701.13	6	3,394.97	6	3,038.26	6	2,681.11
1/4		1/4		1/4	4,624.64	1/4	4,436.02	1/4	4,190.03	1/4	3,943.08	1/4	3,695.98	1/4	3,387.55	1/4	3,030.82	1/4	2,673.67
1/2		1/2		1/2	4,623.93	1/2	4,430.91	1/2	4,184.89	1/2	3,937.94	1/2	3,690.84	1/2	3,380.13	1/2	3,023.38	1/2	2,666.23
3/4		3/4		3/4	4,623.22	3/4	4,425.81	3/4	4,179.76	3/4	3,932.79	3/4	3,685.69	3/4	3,372.72	3/4	3,015.94	3/4	2,658.79
7		7		7	4,622.52	7	4,420.70	7	4,174.63	7	3,927.64	7	3,680.54	7	3,365.30	7	3,008.51	7	2,651.35
1/4		1/4		1/4	4,621.81	1/4	4,415.60	1/4	4,169.49	1/4	3,922.49	1/4	3,675.39	1/4	3,357.88	1/4	3,001.07	1/4	2,643.91
1/2		1/2		1/2	4,621.10	1/2	4,410.49	1/2	4,164.36	1/2	3,917.34	1/2	3,670.24	1/2	3,350.46	1/2	2,993.63	1/2	2,636.47
3/4		3/4		3/4	4,619.71	3/4	4,405.38	3/4	4,159.22	3/4	3,912.20	3/4	3,665.10	3/4	3,343.05	3/4	2,986.19	3/4	2,629.02
8		8		8	4,618.33	8	4,400.28	8	4,154.09	8	3,907.05	8	3,659.95	8	3,335.63	8	2,978.75	8	2,621.57
1/4		1/4		1/4	4,616.94	1/4	4,395.17	1/4	4,148.96	1/4	3,901.90	1/4	3,654.80	1/4	3,328.21	1/4	2,971.31	1/4	2,614.12
1/2		1/2		1/2	4,615.56	1/2	4,390.07	1/2	4,143.82	1/2	3,896.75	1/2	3,649.65	1/2	3,320.79	1/2	2,963.87	1/2	2,606.67
3/4		3/4		3/4	4,613.11	3/4	4,384.96	3/4	4,138.68	3/4	3,891.60	3/4	3,644.50	3/4	3,313.38	3/4	2,956.43	3/4	2,599.22
9		9		9	4,610.66	9	4,379.85	9	4,133.54	9	3,886.46	9	3,639.36	9	3,305.96	9	2,948.99	9	2,591.78
1/4		1/4		1/4	4,608.21	1/4	4,374.75	1/4	4,128.40	1/4	3,881.31	1/4	3,634.21	1/4	3,298.54	1/4	2,941.55	1/4	2,584.33
1/2		1/2		1/2	4,605.76	1/2	4,369.64	1/2	4,123.26	1/2	3,876.16	1/2	3,629.06	1/2	3,291.12	1/2	2,934.11	1/2	2,576.88
3/4		3/4		3/4	4,602.25	3/4	4,364.52	3/4	4,118.11	3/4	3,871.01	3/4	3,623.91	3/4	3,283.69	3/4	2,926.67	3/4	2,569.43
10		10		10	4,598.74	10	4,359.40	10	4,112.96	10	3,865.86	10	3,618.77	10	3,276.27	10	2,919.23	10	2,561.98
1/4		1/4		1/4	4,595.23	1/4	4,354.28	1/4	4,107.82	1/4	3,860.72	1/4	3,613.62	1/4	3,268.84	1/4	2,911.79	1/4	2,554.53
1/2		1/2		1/2	4,591.71	1/2	4,349.16	1/2	4,102.67	1/2	3,855.57	1/2	3,608.47	1/2	3,261.41	1/2	2,904.34	1/2	2,547.09
3/4		3/4		3/4	4,587.20	3/4	4,344.03	3/4	4,097.52	3/4	3,850.42	3/4	3,602.75	3/4	3,253.97	3/4	2,896.90	3/4	2,539.64
11		11		11	4,582.69	11	4,338.90	11	4,092.37	11	3,845.27	11	3,597.03	11	3,246.53	11	2,889.46	11	2,532.19
1/4		1/4		1/4	4,578.18	1/4	4,333.76	1/4	4,087.22	1/4	3,840.13	1/4	3,591.30	1/4	3,239.10	1/4	2,882.02	1/4	2,524.74
1/2		1/2		1/2	4,573.67	1/2	4,328.63	1/2	4,082.08	1/2	3,834.98	1/2	3,585.58	1/2	3,231.66	1/2	2,874.58	1/2	2,517.29
3/4		3/4		3/4	4,568.63	3/4	4,323.50	3/4	4,076.93	3/4	3,829.83	3/4	3,578.73	3/4	3,224.22	3/4	2,867.14	3/4	2,509.85

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 TOP LIP 2" HERMETIC VALVE.

GAUGE POINT: (HERMETIC) LOCATED 03'-00" OFF CENTERLINE AND 84'-07" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



HSM 3146 FORMERLY BARGE "HTCO 3146"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-01 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	2,502.40	0	2,144.88	0	1,787.37	0	1,429.86	0	1,072.41	0	715.38	0	357.88	0	17.13	0			
1/4	2,494.95	1/4	2,137.44	1/4	1,779.92	1/4	1,422.41	1/4	1,064.98	1/4	707.94	1/4	350.43	1/4	13.40	1/4			
1/2	2,487.50	1/2	2,129.99	1/2	1,772.47	1/2	1,414.96	1/2	1,057.54	1/2	700.49	1/2	342.98	1/2	9.68	1/2			
3/4	2,480.05	3/4	2,122.54	3/4	1,765.03	3/4	1,407.51	3/4	1,050.11	3/4	693.04	3/4	335.53	3/4	7.82	3/4			
2	2,472.60	1	2,115.09	1	1,757.58	1	1,400.06	1	1,042.68	1	685.59	1	328.08	1	5.95	1			
1/4	2,465.16	1/4	2,107.64	1/4	1,750.13	1/4	1,392.62	1/4	1,035.24	1/4	678.14	1/4	320.63	1/4	4.09	1/4			
1/2	2,457.71	1/2	2,100.19	1/2	1,742.68	1/2	1,385.17	1/2	1,027.81	1/2	670.70	1/2	313.19	1/2	2.23	1/2			
3/4	2,450.26	3/4	2,092.75	3/4	1,735.23	3/4	1,377.72	3/4	1,020.38	3/4	663.25	3/4	305.74	3/4		3/4			
2	2,442.81	2	2,085.30	2	1,727.78	2	1,370.27	2	1,012.94	2	655.80	2	298.29	2		2			
1/4	2,435.36	1/4	2,077.85	1/4	1,720.34	1/4	1,362.82	1/4	1,005.51	1/4	648.35	1/4	290.84	1/4		1/4			
1/2	2,427.91	1/2	2,070.40	1/2	1,712.89	1/2	1,355.37	1/2	998.08	1/2	640.90	1/2	283.39	1/2		1/2			
3/4	2,420.47	3/4	2,062.95	3/4	1,705.44	3/4	1,347.93	3/4	990.64	3/4	633.46	3/4	275.95	3/4		3/4			
3	2,413.02	3	2,055.50	3	1,697.99	3	1,340.48	3	983.21	3	626.01	3	268.50	3		3			
1/4	2,405.57	1/4	2,048.06	1/4	1,690.54	1/4	1,333.03	1/4	975.78	1/4	618.56	1/4	261.05	1/4		1/4			
1/2	2,398.12	1/2	2,040.61	1/2	1,683.09	1/2	1,325.58	1/2	968.34	1/2	611.11	1/2	253.60	1/2		1/2			
3/4	2,390.67	3/4	2,033.16	3/4	1,675.65	3/4	1,318.13	3/4	960.91	3/4	603.66	3/4	246.15	3/4		3/4			
4	2,383.23	4	2,025.71	4	1,668.20	4	1,310.68	4	953.48	4	596.21	4	238.71	4		4			
1/4	2,375.78	1/4	2,018.26	1/4	1,660.75	1/4	1,303.24	1/4	946.04	1/4	588.77	1/4	231.26	1/4		1/4			
1/2	2,368.33	1/2	2,010.82	1/2	1,653.30	1/2	1,295.79	1/2	938.61	1/2	581.32	1/2	223.81	1/2		1/2			
3/4	2,360.88	3/4	2,003.37	3/4	1,645.85	3/4	1,288.34	3/4	931.18	3/4	573.87	3/4	216.36	3/4		3/4			
5	2,353.43	5	1,995.92	5	1,638.41	5	1,280.89	5	923.75	5	566.42	5	208.91	5		5			
1/4	2,345.98	1/4	1,988.47	1/4	1,630.96	1/4	1,273.44	1/4	916.31	1/4	558.97	1/4	201.47	1/4		1/4			
1/2	2,338.54	1/2	1,981.02	1/2	1,623.51	1/2	1,266.00	1/2	908.88	1/2	551.53	1/2	194.02	1/2		1/2			
3/4	2,331.09	3/4	1,973.57	3/4	1,616.06	3/4	1,258.55	3/4	901.45	3/4	544.08	3/4	186.57	3/4		3/4			
6	2,323.64	6	1,966.13	6	1,608.61	6	1,251.10	6	894.01	6	536.63	6	179.12	6		6			
1/4	2,316.19	1/4	1,958.68	1/4	1,601.16	1/4	1,243.65	1/4	886.58	1/4	529.18	1/4	171.67	1/4		1/4			
1/2	2,308.74	1/2	1,951.23	1/2	1,593.72	1/2	1,236.20	1/2	879.15	1/2	521.73	1/2	164.22	1/2		1/2			
3/4	2,301.30	3/4	1,943.78	3/4	1,586.27	3/4	1,228.75	3/4	871.71	3/4	514.29	3/4	156.78	3/4		3/4			
7	2,293.85	7	1,936.33	7	1,578.82	7	1,221.31	7	864.28	7	506.84	7	149.33	7		7			
1/4	2,286.40	1/4	1,928.89	1/4	1,571.37	1/4	1,213.86	1/4	856.85	1/4	499.39	1/4	141.88	1/4		1/4			
1/2	2,278.95	1/2	1,921.44	1/2	1,563.92	1/2	1,206.41	1/2	849.41	1/2	491.94	1/2	134.43	1/2		1/2			
3/4	2,271.50	3/4	1,913.99	3/4	1,556.48	3/4	1,198.96	3/4	841.98	3/4	484.49	3/4	126.98	3/4		3/4			
8	2,264.05	8	1,906.54	8	1,549.03	8	1,191.51	8	834.54	8	477.05	8	119.54	8		8			
1/4	2,256.61	1/4	1,899.09	1/4	1,541.58	1/4	1,184.07	1/4	827.10	1/4	469.60	1/4	112.09	1/4		1/4			
1/2	2,249.16	1/2	1,891.64	1/2	1,534.13	1/2	1,176.62	1/2	819.66	1/2	462.15	1/2	104.64	1/2		1/2			
3/4	2,241.71	3/4	1,884.20	3/4	1,526.68	3/4	1,169.17	3/4	812.21	3/4	454.70	3/4	97.19	3/4		3/4			
9	2,234.26	9	1,876.75	9	1,519.23	9	1,161.72	9	804.76	9	447.25	9	89.74	9		9			
1/4	2,226.81	1/4	1,869.30	1/4	1,511.79	1/4	1,154.27	1/4	797.31	1/4	439.80	1/4	82.30	1/4		1/4			
1/2	2,219.37	1/2	1,861.85	1/2	1,504.34	1/2	1,146.82	1/2	789.87	1/2	432.36	1/2	74.85	1/2		1/2			
3/4	2,211.92	3/4	1,854.40	3/4	1,496.89	3/4	1,139.38	3/4	782.42	3/4	424.91	3/4	67.87	3/4		3/4			
10	2,204.47	10	1,846.96	10	1,489.44	10	1,131.94	10	774.97	10	417.46	10	60.88	10		10			
1/4	2,197.02	1/4	1,839.51	1/4	1,481.99	1/4	1,124.49	1/4	767.52	1/4	410.01	1/4	53.90	1/4		1/4			
1/2	2,189.57	1/2	1,832.06	1/2	1,474.55	1/2	1,117.05	1/2	760.07	1/2	402.56	1/2	46.92	1/2		1/2			
3/4	2,182.12	3/4	1,824.61	3/4	1,467.10	3/4	1,109.61	3/4	752.62	3/4	395.12	3/4	41.33	3/4		3/4			
11	2,174.68	11	1,817.16	11	1,459.65	11	1,102.17	11	745.18	11	387.67	11	35.75	11		11			
1/4	2,167.23	1/4	1,809.71	1/4	1,452.20	1/4	1,094.73	1/4	737.73	1/4	380.22	1/4	30.16	1/4		1/4			
1/2	2,159.78	1/2	1,802.27	1/2	1,444.75	1/2	1,087.29	1/2	730.28	1/2	372.77	1/2	24.57	1/2		1/2			
3/4	2,152.33	3/4	1,794.82	3/4	1,437.30	3/4	1,079.85	3/4	722.83	3/4	365.32	3/4	20.85	3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/19/2015 CL
CALCULATED: 08/21/2015 CL
PRINTED: 08/16/2018 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2018

PRECISION MEASUREMENT
& ANALYSIS, INC.
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HSM 3146 FORMERLY BARGE "HTCO 3146"

AFT SLOP TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 5'-07 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	449	0	898	0	1,347	0	1,795	0		0		0		0		0	
1/4	9	1/4	458	1/4	907	1/4	1,356	1/4	1,805	1/4		1/4		1/4		1/4		1/4	
1/2	19	1/2	468	1/2	917	1/2	1,365	1/2	1,814	1/2		1/2		1/2		1/2		1/2	
3/4	28	3/4	477	3/4	926	3/4	1,375	3/4	1,824	3/4		3/4		3/4		3/4		3/4	
1	37	1	486	1	935	1	1,384	1	1,833	1		1		1		1		1	
1/4	47	1/4	496	1/4	945	1/4	1,393	1/4	1,842	1/4		1/4		1/4		1/4		1/4	
1/2	56	1/2	505	1/2	954	1/2	1,403	1/2	1,852	1/2		1/2		1/2		1/2		1/2	
3/4	65	3/4	514	3/4	963	3/4	1,412	3/4	1,861	3/4		3/4		3/4		3/4		3/4	
2	75	2	524	2	973	2	1,421	2	1,870	2		2		2		2		2	
1/4	84	1/4	533	1/4	982	1/4	1,431	1/4	1,880	1/4		1/4		1/4		1/4		1/4	
1/2	94	1/2	542	1/2	991	1/2	1,440	1/2	1,889	1/2		1/2		1/2		1/2		1/2	
3/4	103	3/4	552	3/4	1,001	3/4	1,450	3/4	1,898	3/4		3/4		3/4		3/4		3/4	
3	112	3	561	3	1,010	3	1,459	3	1,908	3		3		3		3		3	
1/4	122	1/4	571	1/4	1,019	1/4	1,468	1/4	1,917	1/4		1/4		1/4		1/4		1/4	
1/2	131	1/2	580	1/2	1,029	1/2	1,478	1/2	1,926	1/2		1/2		1/2		1/2		1/2	
3/4	140	3/4	589	3/4	1,038	3/4	1,487	3/4	1,936	3/4		3/4		3/4		3/4		3/4	
4	150	4	599	4	1,047	4	1,496	4	1,945	4		4		4		4		4	
1/4	159	1/4	608	1/4	1,057	1/4	1,506	1/4	1,954	1/4		1/4		1/4		1/4		1/4	
1/2	168	1/2	617	1/2	1,066	1/2	1,515	1/2	1,964	1/2		1/2		1/2		1/2		1/2	
3/4	178	3/4	627	3/4	1,075	3/4	1,524	3/4	1,973	3/4		3/4		3/4		3/4		3/4	
5	187	5	636	5	1,085	5	1,534	5	1,982	5		5		5		5		5	
1/4	197	1/4	645	1/4	1,094	1/4	1,543	1/4	1,992	1/4		1/4		1/4		1/4		1/4	
1/2	206	1/2	655	1/2	1,104	1/2	1,552	1/2	2,001	1/2		1/2		1/2		1/2		1/2	
3/4	215	3/4	664	3/4	1,113	3/4	1,562	3/4	2,011	3/4		3/4		3/4		3/4		3/4	
6	225	6	673	6	1,122	6	1,571	6	2,020	6		6		6		6		6	
1/4	234	1/4	683	1/4	1,132	1/4	1,580	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	243	1/2	692	1/2	1,141	1/2	1,590	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	253	3/4	701	3/4	1,150	3/4	1,599	3/4		3/4		3/4		3/4		3/4		3/4	
7	262	7	711	7	1,160	7	1,608	7		7		7		7		7		7	
1/4	271	1/4	720	1/4	1,169	1/4	1,618	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	281	1/2	730	1/2	1,178	1/2	1,627	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	290	3/4	739	3/4	1,188	3/4	1,637	3/4		3/4		3/4		3/4		3/4		3/4	
8	299	8	748	8	1,197	8	1,646	8		8		8		8		8		8	
1/4	309	1/4	758	1/4	1,206	1/4	1,655	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	318	1/2	767	1/2	1,216	1/2	1,665	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	327	3/4	776	3/4	1,225	3/4	1,674	3/4		3/4		3/4		3/4		3/4		3/4	
9	337	9	786	9	1,234	9	1,683	9		9		9		9		9		9	
1/4	346	1/4	795	1/4	1,244	1/4	1,693	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	355	1/2	804	1/2	1,253	1/2	1,702	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	365	3/4	814	3/4	1,262	3/4	1,711	3/4		3/4		3/4		3/4		3/4		3/4	
10	374	10	823	10	1,272	10	1,721	10		10		10		10		10		10	
1/4	384	1/4	832	1/4	1,281	1/4	1,730	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	393	1/2	842	1/2	1,291	1/2	1,739	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	402	3/4	851	3/4	1,300	3/4	1,749	3/4		3/4		3/4		3/4		3/4		3/4	
11	412	11	860	11	1,309	11	1,758	11		11		11		11		11		11	
1/4	421	1/4	870	1/4	1,319	1/4	1,767	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	430	1/2	879	1/2	1,328	1/2	1,777	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	440	3/4	888	3/4	1,337	3/4	1,786	3/4		3/4		3/4		3/4		3/4		3/4	

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 AT GAUGE POINT.
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.

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CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2015

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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HSM 3146 FORMERLY BARGE "HTCO 3146"

AFT SLOP TANK ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 5'-07 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	1,627	0	1,178	0	730	0	281	0		0		0		0	
1/4		1/4		1/4	1,618	1/4	1,169	1/4	720	1/4	271	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	1,609	1/2	1,160	1/2	711	1/2	262	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	1,599	3/4	1,150	3/4	702	3/4	253	3/4		3/4		3/4		3/4	
1		1		1	1,590	1	1,141	1	692	1	243	1		1		1		1	
1/4		1/4		1/4	1,581	1/4	1,132	1/4	683	1/4	234	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	2,020	1/2	1,122	1/2	673	1/2	225	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	2,011	3/4	1,113	3/4	664	3/4	215	3/4		3/4		3/4		3/4	
2		2		2	2,001	2	1,552	2	1,104	2	206	2		2		2		2	
1/4		1/4		1/4	1,992	1/4	1,543	1/4	1,094	1/4	197	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	1,983	1/2	1,534	1/2	1,085	1/2	187	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	1,973	3/4	1,524	3/4	1,076	3/4	178	3/4		3/4		3/4		3/4	
3		3		3	1,964	3	1,515	3	1,066	3	169	3		3		3		3	
1/4		1/4		1/4	1,955	1/4	1,506	1/4	1,057	1/4	159	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	1,945	1/2	1,496	1/2	1,048	1/2	150	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	1,936	3/4	1,487	3/4	1,038	3/4	140	3/4		3/4		3/4		3/4	
4		4		4	1,926	4	1,478	4	1,029	4	131	4		4		4		4	
1/4		1/4		1/4	1,917	1/4	1,468	1/4	1,019	1/4	122	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	1,908	1/2	1,459	1/2	1,010	1/2	112	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	1,898	3/4	1,450	3/4	1,001	3/4	103	3/4		3/4		3/4		3/4	
5		5		5	1,889	5	1,440	5	991	5	94	5		5		5		5	
1/4		1/4		1/4	1,880	1/4	1,431	1/4	982	1/4	84	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	1,870	1/2	1,422	1/2	973	1/2	75	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	1,861	3/4	1,412	3/4	963	3/4	66	3/4		3/4		3/4		3/4	
6		6		6	1,852	6	1,403	6	954	6	56	6		6		6		6	
1/4		1/4		1/4	1,842	1/4	1,394	1/4	945	1/4	47	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	1,833	1/2	1,384	1/2	935	1/2	38	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	1,824	3/4	1,375	3/4	926	3/4	28	3/4		3/4		3/4		3/4	
7		7		7	1,814	7	1,365	7	917	7	19	7		7		7		7	
1/4		1/4		1/4	1,805	1/4	1,356	1/4	907	1/4	9	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	1,796	1/2	1,347	1/2	898	1/2	0	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	1,786	3/4	1,337	3/4	889	3/4	440	3/4		3/4		3/4		3/4	
8		8		8	1,777	8	1,328	8	879	8	430	8		8		8		8	
1/4		1/4		1/4	1,768	1/4	1,319	1/4	870	1/4	421	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	1,758	1/2	1,309	1/2	861	1/2	412	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	1,749	3/4	1,300	3/4	851	3/4	402	3/4		3/4		3/4		3/4	
9		9		9	1,739	9	1,291	9	842	9	393	9		9		9		9	
1/4		1/4		1/4	1,730	1/4	1,281	1/4	832	1/4	384	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	1,721	1/2	1,272	1/2	823	1/2	374	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	1,711	3/4	1,263	3/4	814	3/4	365	3/4		3/4		3/4		3/4	
10		10		10	1,702	10	1,253	10	804	10	356	10		10		10		10	
1/4		1/4		1/4	1,693	1/4	1,244	1/4	795	1/4	346	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	1,683	1/2	1,235	1/2	786	1/2	337	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	1,674	3/4	1,225	3/4	776	3/4	328	3/4		3/4		3/4		3/4	
11		11		11	1,665	11	1,216	11	767	11	318	11		11		11		11	
1/4		1/4		1/4	1,655	1/4	1,206	1/4	758	1/4	309	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	1,646	1/2	1,197	1/2	748	1/2	299	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	1,637	3/4	1,188	3/4	739	3/4	290	3/4		3/4		3/4		3/4	

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 AT GAUGE POINT.
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.

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Pearland, Texas 77588
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HSM 3146 FORMERLY BARGE "HTCO 3146"

FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 3'-09"

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	120	0	298	0	466	0		0		0		0		0		0	
1/4	1	1/4	123	1/4	302	1/4	459	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2	1/2	127	1/2	305	1/2	461	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3	3/4	130	3/4	309	3/4	463	3/4		3/4		3/4		3/4		3/4		3/4	
1	3	1	134	1	313	1	466	1		1		1		1		1		1	
1/4	5	1/4	137	1/4	316	1/4	468	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	6	1/2	141	1/2	320	1/2	470	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	8	3/4	144	3/4	324	3/4	472	3/4		3/4		3/4		3/4		3/4		3/4	
2	9	2	148	2	327	2	475	2		2		2		2		2		2	
1/4	11	1/4	152	1/4	331	1/4	477	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	13	1/2	155	1/2	335	1/2	478	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	15	3/4	159	3/4	338	3/4	480	3/4		3/4		3/4		3/4		3/4		3/4	
3	16	3	162	3	342	3	482	3		3		3		3		3		3	
1/4	19	1/4	166	1/4	346	1/4	484	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	21	1/2	170	1/2	349	1/2	485	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	23	3/4	173	3/4	353	3/4	487	3/4		3/4		3/4		3/4		3/4		3/4	
4	25	4	177	4	356	4	488	4		4		4		4		4		4	
1/4	27	1/4	181	1/4	360	1/4	489	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	30	1/2	185	1/2	363	1/2	490	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	32	3/4	188	3/4	367	3/4	491	3/4		3/4		3/4		3/4		3/4		3/4	
5	35	5	192	5	370	5	492	5		5		5		5		5		5	
1/4	37	1/4	196	1/4	374	1/4	493	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	40	1/2	200	1/2	377	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	42	3/4	203	3/4	381	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
6	45	6	207	6	384	6		6		6		6		6		6		6	
1/4	48	1/4	211	1/4	387	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	51	1/2	215	1/2	391	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	53	3/4	218	3/4	394	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7	56	7	222	7	397	7		7		7		7		7		7		7	
1/4	59	1/4	226	1/4	401	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	62	1/2	230	1/2	404	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	65	3/4	234	3/4	407	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8	68	8	237	8	410	8		8		8		8		8		8		8	
1/4	71	1/4	241	1/4	413	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	74	1/2	245	1/2	416	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	77	3/4	249	3/4	420	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	80	9	252	9	423	9		9		9		9		9		9		9	
1/4	83	1/4	256	1/4	426	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	87	1/2	260	1/2	429	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	90	3/4	264	3/4	432	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	93	10	268	10	434	10		10		10		10		10		10		10	
1/4	96	1/4	271	1/4	437	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	100	1/2	275	1/2	440	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	103	3/4	279	3/4	443	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	106	11	283	11	446	11		11		11		11		11		11		11	
1/4	110	1/4	287	1/4	448	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	113	1/2	290	1/2	451	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	116	3/4	294	3/4	454	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

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 AT GAUGE POINT.
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN AT 2" DIAMETER STANDPIPE.

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HSM 3146 FORMERLY BARGE "HTCO 3146"

FWD SLOP TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 5'-07 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	449	0	898	0	1,347	0	1,795	0		0		0		0		0	
1/4	9	1/4	458	1/4	907	1/4	1,356	1/4	1,805	1/4		1/4		1/4		1/4		1/4	
1/2	19	1/2	468	1/2	917	1/2	1,365	1/2	1,814	1/2		1/2		1/2		1/2		1/2	
3/4	28	3/4	477	3/4	926	3/4	1,375	3/4	1,824	3/4		3/4		3/4		3/4		3/4	
1	37	1	486	1	935	1	1,384	1	1,833	1		1		1		1		1	
1/4	47	1/4	496	1/4	945	1/4	1,393	1/4	1,842	1/4		1/4		1/4		1/4		1/4	
1/2	56	1/2	505	1/2	954	1/2	1,403	1/2	1,852	1/2		1/2		1/2		1/2		1/2	
3/4	65	3/4	514	3/4	963	3/4	1,412	3/4	1,861	3/4		3/4		3/4		3/4		3/4	
2	75	2	524	2	973	2	1,421	2	1,870	2		2		2		2		2	
1/4	84	1/4	533	1/4	982	1/4	1,431	1/4	1,880	1/4		1/4		1/4		1/4		1/4	
1/2	94	1/2	542	1/2	991	1/2	1,440	1/2	1,889	1/2		1/2		1/2		1/2		1/2	
3/4	103	3/4	552	3/4	1,001	3/4	1,450	3/4	1,898	3/4		3/4		3/4		3/4		3/4	
3	112	3	561	3	1,010	3	1,459	3	1,908	3		3		3		3		3	
1/4	122	1/4	571	1/4	1,019	1/4	1,468	1/4	1,917	1/4		1/4		1/4		1/4		1/4	
1/2	131	1/2	580	1/2	1,029	1/2	1,478	1/2	1,926	1/2		1/2		1/2		1/2		1/2	
3/4	140	3/4	589	3/4	1,038	3/4	1,487	3/4	1,936	3/4		3/4		3/4		3/4		3/4	
4	150	4	599	4	1,047	4	1,496	4	1,945	4		4		4		4		4	
1/4	159	1/4	608	1/4	1,057	1/4	1,506	1/4	1,954	1/4		1/4		1/4		1/4		1/4	
1/2	168	1/2	617	1/2	1,066	1/2	1,515	1/2	1,964	1/2		1/2		1/2		1/2		1/2	
3/4	178	3/4	627	3/4	1,075	3/4	1,524	3/4	1,973	3/4		3/4		3/4		3/4		3/4	
5	187	5	636	5	1,085	5	1,534	5	1,982	5		5		5		5		5	
1/4	197	1/4	645	1/4	1,094	1/4	1,543	1/4	1,992	1/4		1/4		1/4		1/4		1/4	
1/2	206	1/2	655	1/2	1,104	1/2	1,552	1/2	2,001	1/2		1/2		1/2		1/2		1/2	
3/4	215	3/4	664	3/4	1,113	3/4	1,562	3/4	2,011	3/4		3/4		3/4		3/4		3/4	
6	225	6	673	6	1,122	6	1,571	6	2,020	6		6		6		6		6	
1/4	234	1/4	683	1/4	1,132	1/4	1,580	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	243	1/2	692	1/2	1,141	1/2	1,590	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	253	3/4	701	3/4	1,150	3/4	1,599	3/4		3/4		3/4		3/4		3/4		3/4	
7	262	7	711	7	1,160	7	1,608	7		7		7		7		7		7	
1/4	271	1/4	720	1/4	1,169	1/4	1,618	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	281	1/2	730	1/2	1,178	1/2	1,627	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	290	3/4	739	3/4	1,188	3/4	1,637	3/4		3/4		3/4		3/4		3/4		3/4	
8	299	8	748	8	1,197	8	1,646	8		8		8		8		8		8	
1/4	309	1/4	758	1/4	1,206	1/4	1,655	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	318	1/2	767	1/2	1,216	1/2	1,665	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	327	3/4	776	3/4	1,225	3/4	1,674	3/4		3/4		3/4		3/4		3/4		3/4	
9	337	9	786	9	1,234	9	1,683	9		9		9		9		9		9	
1/4	346	1/4	795	1/4	1,244	1/4	1,693	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	355	1/2	804	1/2	1,253	1/2	1,702	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	365	3/4	814	3/4	1,262	3/4	1,711	3/4		3/4		3/4		3/4		3/4		3/4	
10	374	10	823	10	1,272	10	1,721	10		10		10		10		10		10	
1/4	384	1/4	832	1/4	1,281	1/4	1,730	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	393	1/2	842	1/2	1,291	1/2	1,739	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	402	3/4	851	3/4	1,300	3/4	1,749	3/4		3/4		3/4		3/4		3/4		3/4	
11	412	11	860	11	1,309	11	1,758	11		11		11		11		11		11	
1/4	421	1/4	870	1/4	1,319	1/4	1,767	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	430	1/2	879	1/2	1,328	1/2	1,777	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	440	3/4	888	3/4	1,337	3/4	1,786	3/4		3/4		3/4		3/4		3/4		3/4	

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CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK AT GAUGE POINT.
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.

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



HSM 3146 FORMERLY BARGE "HTCO 3146"

FWD SLOP TANK ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 5'-07 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	1,627	0	1,178	0	730	0	281	0		0		0		0	
1/4		1/4		1/4	1,618	1/4	1,169	1/4	720	1/4	271	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	1,609	1/2	1,160	1/2	711	1/2	262	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	1,599	3/4	1,150	3/4	702	3/4	253	3/4		3/4		3/4		3/4	
1		1		1	1,590	1	1,141	1	692	1	243	1		1		1		1	
1/4		1/4		1/4	1,581	1/4	1,132	1/4	683	1/4	234	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	2,020	1/2	1,571	1/2	673	1/2	225	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	2,011	3/4	1,562	3/4	664	3/4	215	3/4		3/4		3/4		3/4	
2		2		2	2,001	2	1,552	2	655	2	206	2		2		2		2	
1/4		1/4		1/4	1,992	1/4	1,543	1/4	645	1/4	197	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	1,983	1/2	1,534	1/2	636	1/2	187	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	1,973	3/4	1,524	3/4	627	3/4	178	3/4		3/4		3/4		3/4	
3		3		3	1,964	3	1,515	3	617	3	169	3		3		3		3	
1/4		1/4		1/4	1,955	1/4	1,506	1/4	608	1/4	159	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	1,945	1/2	1,496	1/2	600	1/2	150	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	1,936	3/4	1,487	3/4	589	3/4	140	3/4		3/4		3/4		3/4	
4		4		4	1,926	4	1,478	4	580	4	131	4		4		4		4	
1/4		1/4		1/4	1,917	1/4	1,468	1/4	571	1/4	122	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	1,908	1/2	1,459	1/2	561	1/2	112	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	1,898	3/4	1,450	3/4	552	3/4	103	3/4		3/4		3/4		3/4	
5		5		5	1,889	5	1,440	5	543	5	94	5		5		5		5	
1/4		1/4		1/4	1,880	1/4	1,431	1/4	533	1/4	84	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	1,870	1/2	1,422	1/2	524	1/2	75	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	1,861	3/4	1,412	3/4	515	3/4	66	3/4		3/4		3/4		3/4	
6		6		6	1,852	6	1,403	6	505	6	56	6		6		6		6	
1/4		1/4		1/4	1,842	1/4	1,394	1/4	496	1/4	47	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	1,833	1/2	1,384	1/2	486	1/2	38	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	1,824	3/4	1,375	3/4	477	3/4	28	3/4		3/4		3/4		3/4	
7		7		7	1,814	7	1,365	7	468	7	19	7		7		7		7	
1/4		1/4		1/4	1,805	1/4	1,356	1/4	458	1/4	9	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	1,796	1/2	1,347	1/2	449	1/2	0	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	1,786	3/4	1,337	3/4	440	3/4		3/4		3/4		3/4		3/4	
8		8		8	1,777	8	1,328	8	430	8		8		8		8		8	
1/4		1/4		1/4	1,768	1/4	1,319	1/4	421	1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2	1,758	1/2	1,309	1/2	412	1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4	1,749	3/4	1,300	3/4	402	3/4		3/4		3/4		3/4		3/4	
9		9		9	1,739	9	1,291	9	393	9		9		9		9		9	
1/4		1/4		1/4	1,730	1/4	1,281	1/4	384	1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2	1,721	1/2	1,272	1/2	374	1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4	1,711	3/4	1,263	3/4	365	3/4		3/4		3/4		3/4		3/4	
10		10		10	1,702	10	1,253	10	356	10		10		10		10		10	
1/4		1/4		1/4	1,693	1/4	1,244	1/4	346	1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2	1,683	1/2	1,235	1/2	337	1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4	1,674	3/4	1,225	3/4	328	3/4		3/4		3/4		3/4		3/4	
11		11		11	1,665	11	1,216	11	318	11		11		11		11		11	
1/4		1/4		1/4	1,655	1/4	1,206	1/4	309	1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2	1,646	1/2	1,197	1/2	299	1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4	1,637	3/4	1,188	3/4	290	3/4		3/4		3/4		3/4		3/4	

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