



BARGE "HFL 457"

INNAGE TRIM TABLE
FORMERLY "CHEM 3004"

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

(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 - 00-3/8"
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED INNAGE IS 3'-11 5/8"

LENGTH BETWEEN DRAFT MARKS: 238'-06"

December 10, 2014

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HFL 457"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CHEM 3004"

GAUGE HEIGHT 15'-11 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	14.92	0	289.01	0	620.23	0	960.25	0	1,301.07	0	1,641.88	0	1,982.70	0	2,323.52	0	2,664.34	0	3,005.08
1/4	17.82	1/4	295.57	1/4	627.28	1/4	967.35	1/4	1,308.17	1/4	1,648.99	1/4	1,989.80	1/4	2,330.62	1/4	2,671.44	1/4	3,012.18
1/2	20.72	1/2	302.13	1/2	634.32	1/2	974.45	1/2	1,315.27	1/2	1,656.09	1/2	1,996.90	1/2	2,337.72	1/2	2,678.54	1/2	3,019.27
3/4	23.63	3/4	308.69	3/4	641.37	3/4	981.55	3/4	1,322.37	3/4	1,663.19	3/4	2,004.01	3/4	2,344.82	3/4	2,685.64	3/4	3,026.37
1	26.53	1	315.25	1	648.42	1	988.65	1	1,329.47	1	1,670.29	1	2,011.11	1	2,351.92	1	2,692.74	1	3,033.47
1/4	31.29	1/4	321.89	1/4	655.48	1/4	995.75	1/4	1,336.57	1/4	1,677.39	1/4	2,018.21	1/4	2,359.03	1/4	2,699.84	1/4	3,040.57
1/2	36.04	1/2	328.54	1/2	662.53	1/2	1,002.85	1/2	1,343.67	1/2	1,684.49	1/2	2,025.31	1/2	2,366.13	1/2	2,706.94	1/2	3,047.67
3/4	40.80	3/4	335.18	3/4	669.58	3/4	1,009.95	3/4	1,350.77	3/4	1,691.59	3/4	2,032.41	3/4	2,373.23	3/4	2,714.04	3/4	3,054.77
2	45.55	2	341.82	2	676.64	2	1,017.05	2	1,357.87	2	1,698.69	2	2,039.51	2	2,380.33	2	2,721.15	2	3,061.86
1/4	51.20	1/4	348.55	1/4	683.69	1/4	1,024.15	1/4	1,364.97	1/4	1,705.79	1/4	2,046.61	1/4	2,387.43	1/4	2,728.24	1/4	3,068.96
1/2	56.84	1/2	355.28	1/2	690.75	1/2	1,031.25	1/2	1,372.07	1/2	1,712.89	1/2	2,053.71	1/2	2,394.53	1/2	2,735.34	1/2	3,076.06
3/4	62.48	3/4	362.01	3/4	697.80	3/4	1,038.35	3/4	1,379.17	3/4	1,719.99	3/4	2,060.81	3/4	2,401.63	3/4	2,742.44	3/4	3,083.16
3	68.12	3	368.73	3	704.86	3	1,045.45	3	1,386.27	3	1,727.09	3	2,067.91	3	2,408.73	3	2,749.54	3	3,090.26
1/4	73.89	1/4	375.54	1/4	711.93	1/4	1,052.55	1/4	1,393.37	1/4	1,734.19	1/4	2,075.01	1/4	2,415.83	1/4	2,756.64	1/4	3,097.36
1/2	79.65	1/2	382.35	1/2	719.00	1/2	1,059.65	1/2	1,400.47	1/2	1,741.29	1/2	2,082.11	1/2	2,422.93	1/2	2,763.74	1/2	3,104.45
3/4	85.42	3/4	389.16	3/4	726.07	3/4	1,066.75	3/4	1,407.57	3/4	1,748.39	3/4	2,089.21	3/4	2,430.03	3/4	2,770.83	3/4	3,111.55
4	91.18	4	395.97	4	733.15	4	1,073.85	4	1,414.67	4	1,755.49	4	2,096.31	4	2,437.13	4	2,777.93	4	3,118.65
1/4	97.05	1/4	402.86	1/4	740.22	1/4	1,080.95	1/4	1,421.77	1/4	1,762.59	1/4	2,103.41	1/4	2,444.23	1/4	2,785.03	1/4	3,125.75
1/2	102.92	1/2	409.76	1/2	747.29	1/2	1,088.05	1/2	1,428.87	1/2	1,769.69	1/2	2,110.51	1/2	2,451.33	1/2	2,792.13	1/2	3,132.85
3/4	108.79	3/4	416.65	3/4	754.36	3/4	1,095.15	3/4	1,435.97	3/4	1,776.79	3/4	2,117.61	3/4	2,458.43	3/4	2,799.23	3/4	3,139.95
5	114.66	5	423.54	5	761.43	5	1,102.25	5	1,443.07	5	1,783.89	5	2,124.71	5	2,465.53	5	2,806.32	5	3,147.04
1/4	120.63	1/4	430.47	1/4	768.54	1/4	1,109.35	1/4	1,450.17	1/4	1,790.99	1/4	2,131.81	1/4	2,472.63	1/4	2,813.42	1/4	3,154.14
1/2	126.60	1/2	437.39	1/2	775.64	1/2	1,116.46	1/2	1,457.27	1/2	1,798.09	1/2	2,138.91	1/2	2,479.73	1/2	2,820.52	1/2	3,161.24
3/4	132.56	3/4	444.31	3/4	782.74	3/4	1,123.56	3/4	1,464.37	3/4	1,805.19	3/4	2,146.01	3/4	2,486.83	3/4	2,827.62	3/4	3,168.34
6	138.53	6	451.24	6	789.84	6	1,130.66	6	1,471.48	6	1,812.29	6	2,153.11	6	2,493.93	6	2,834.72	6	3,175.44
1/4	144.59	1/4	458.24	1/4	796.94	1/4	1,137.76	1/4	1,478.58	1/4	1,819.39	1/4	2,160.21	1/4	2,501.03	1/4	2,841.82	1/4	3,182.53
1/2	150.65	1/2	465.25	1/2	804.04	1/2	1,144.86	1/2	1,485.68	1/2	1,826.50	1/2	2,167.31	1/2	2,508.13	1/2	2,848.91	1/2	3,189.63
3/4	156.71	3/4	472.26	3/4	811.14	3/4	1,151.96	3/4	1,492.78	3/4	1,833.60	3/4	2,174.41	3/4	2,515.23	3/4	2,856.01	3/4	3,196.73
7	162.77	7	479.26	7	818.24	7	1,159.06	7	1,499.88	7	1,840.70	7	2,181.52	7	2,522.33	7	2,863.11	7	3,203.83
1/4	168.91	1/4	486.31	1/4	825.34	1/4	1,166.16	1/4	1,506.98	1/4	1,847.80	1/4	2,188.62	1/4	2,529.43	1/4	2,870.21	1/4	3,210.93
1/2	175.06	1/2	493.36	1/2	832.44	1/2	1,173.26	1/2	1,514.08	1/2	1,854.90	1/2	2,195.72	1/2	2,536.53	1/2	2,877.31	1/2	3,218.03
3/4	181.20	3/4	500.41	3/4	839.54	3/4	1,180.36	3/4	1,521.18	3/4	1,862.00	3/4	2,202.82	3/4	2,543.64	3/4	2,884.41	3/4	3,225.12
8	187.35	8	507.46	8	846.64	8	1,187.46	8	1,528.28	8	1,869.10	8	2,209.92	8	2,550.74	8	2,891.50	8	3,232.22
1/4	193.58	1/4	514.51	1/4	853.74	1/4	1,194.56	1/4	1,535.38	1/4	1,876.20	1/4	2,217.02	1/4	2,557.84	1/4	2,898.60	1/4	3,239.32
1/2	199.81	1/2	521.55	1/2	860.84	1/2	1,201.66	1/2	1,542.48	1/2	1,883.30	1/2	2,224.12	1/2	2,564.94	1/2	2,905.70	1/2	3,246.42
3/4	206.04	3/4	528.60	3/4	867.94	3/4	1,208.76	3/4	1,549.58	3/4	1,890.40	3/4	2,231.22	3/4	2,572.04	3/4	2,912.80	3/4	3,253.52
9	212.27	9	535.65	9	875.04	9	1,215.86	9	1,556.68	9	1,897.50	9	2,238.32	9	2,579.14	9	2,919.90	9	3,260.62
1/4	218.58	1/4	542.70	1/4	882.14	1/4	1,222.96	1/4	1,563.78	1/4	1,904.60	1/4	2,245.42	1/4	2,586.24	1/4	2,927.00	1/4	3,267.71
1/2	224.89	1/2	549.75	1/2	889.24	1/2	1,230.06	1/2	1,570.88	1/2	1,911.70	1/2	2,252.52	1/2	2,593.34	1/2	2,934.09	1/2	3,274.81
3/4	231.20	3/4	556.79	3/4	896.34	3/4	1,237.16	3/4	1,577.98	3/4	1,918.80	3/4	2,259.62	3/4	2,600.44	3/4	2,941.19	3/4	3,281.91
10	237.51	10	563.84	10	903.44	10	1,244.26	10	1,585.08	10	1,925.90	10	2,266.72	10	2,607.54	10	2,948.29	10	3,289.01
1/4	243.91	1/4	570.89	1/4	910.54	1/4	1,251.36	1/4	1,592.18	1/4	1,933.00	1/4	2,273.82	1/4	2,614.64	1/4	2,955.39	1/4	3,296.11
1/2	250.30	1/2	577.94	1/2	917.64	1/2	1,258.46	1/2	1,599.28	1/2	1,940.10	1/2	2,280.92	1/2	2,621.74	1/2	2,962.49	1/2	3,303.21
3/4	256.70	3/4	584.99	3/4	924.74	3/4	1,265.56	3/4	1,606.38	3/4	1,947.20	3/4	2,288.02	3/4	2,628.84	3/4	2,969.59	3/4	3,310.30
11	263.09	11	592.04	11	931.84	11	1,272.66	11	1,613.48	11	1,954.30	11	2,295.12	11	2,635.94	11	2,976.68	11	3,317.40
1/4	269.57	1/4	599.08	1/4	938.94	1/4	1,279.76	1/4	1,620.58	1/4	1,961.40	1/4	2,302.22	1/4	2,643.04	1/4	2,983.78	1/4	3,324.50
1/2	276.05	1/2	606.13	1/2	946.05	1/2	1,286.86	1/2	1,627.68	1/2	1,968.50	1/2	2,309.32	1/2	2,650.14	1/2	2,990.88	1/2	3,331.60
3/4	282.53	3/4	613.18	3/4	953.15	3/4	1,293.97	3/4	1,634.78	3/4	1,975.60	3/4	2,316.42	3/4	2,657.24	3/4	2,997.98	3/4	3,338.70

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 INNAGE GAUGES TAKEN TO TOP OF 2" HERMETIC CLOSED GAUGING VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-09" OFF CENTERLINE AND 36'-06" 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 "HFL 457"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CHEM 3004"

GAUGE HEIGHT 15'-11 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	3,345.80	0	3,686.51	0	4,026.99	0	4,366.39	0	4,705.78	0		0		0		0		0	
1/4	3,352.89	1/4	3,693.61	1/4	4,034.06	1/4	4,373.46	1/4	4,712.76	1/4		1/4		1/4		1/4		1/4	
1/2	3,359.99	1/2	3,700.71	1/2	4,041.13	1/2	4,380.53	1/2	4,719.75	1/2		1/2		1/2		1/2		1/2	
3/4	3,367.09	3/4	3,707.81	3/4	4,048.20	3/4	4,387.60	3/4	4,726.73	3/4		3/4		3/4		3/4		3/4	
1	3,374.19	1	3,714.91	1	4,055.28	1	4,394.67	1	4,733.71	1		1		1		1		1	
1/4	3,381.29	1/4	3,722.01	1/4	4,062.35	1/4	4,401.74	1/4	4,740.69	1/4		1/4		1/4		1/4		1/4	
1/2	3,388.39	1/2	3,729.10	1/2	4,069.42	1/2	4,408.81	1/2	4,747.68	1/2		1/2		1/2		1/2		1/2	
3/4	3,395.48	3/4	3,736.20	3/4	4,076.49	3/4	4,415.88	3/4	4,754.66	3/4		3/4		3/4		3/4		3/4	
2	3,402.58	2	3,743.30	2	4,083.56	2	4,422.95	2	4,761.64	2		2		2		2		2	
1/4	3,409.68	1/4	3,750.40	1/4	4,090.63	1/4	4,430.02	1/4	4,768.63	1/4		1/4		1/4		1/4		1/4	
1/2	3,416.78	1/2	3,757.50	1/2	4,097.70	1/2	4,437.09	1/2	4,775.61	1/2		1/2		1/2		1/2		1/2	
3/4	3,423.88	3/4	3,764.60	3/4	4,104.77	3/4	4,444.16	3/4	4,782.59	3/4		3/4		3/4		3/4		3/4	
3	3,430.98	3	3,771.69	3	4,111.84	3	4,451.23	3	4,789.57	3		3		3		3		3	
1/4	3,438.07	1/4	3,778.79	1/4	4,118.91	1/4	4,458.31	1/4	4,796.56	1/4		1/4		1/4		1/4		1/4	
1/2	3,445.17	1/2	3,785.89	1/2	4,125.98	1/2	4,465.38	1/2	4,803.55	1/2		1/2		1/2		1/2		1/2	
3/4	3,452.27	3/4	3,792.99	3/4	4,133.05	3/4	4,472.45	3/4	4,810.54	3/4		3/4		3/4		3/4		3/4	
4	3,459.37	4	3,800.09	4	4,140.12	4	4,479.52	4	4,817.53	4		4		4		4		4	
1/4	3,466.47	1/4	3,807.19	1/4	4,147.19	1/4	4,486.59	1/4	4,824.50	1/4		1/4		1/4		1/4		1/4	
1/2	3,473.57	1/2	3,814.28	1/2	4,154.27	1/2	4,493.66	1/2	4,831.48	1/2		1/2		1/2		1/2		1/2	
3/4	3,480.66	3/4	3,821.38	3/4	4,161.34	3/4	4,500.73	3/4	4,838.46	3/4		3/4		3/4		3/4		3/4	
5	3,487.76	5	3,828.48	5	4,168.41	5	4,507.80	5	4,845.43	5		5		5		5		5	
1/4	3,494.86	1/4	3,835.58	1/4	4,175.48	1/4	4,514.87	1/4	4,852.39	1/4		1/4		1/4		1/4		1/4	
1/2	3,501.96	1/2	3,842.68	1/2	4,182.55	1/2	4,521.94	1/2	4,859.34	1/2		1/2		1/2		1/2		1/2	
3/4	3,509.06	3/4	3,849.78	3/4	4,189.62	3/4	4,529.01	3/4	4,866.29	3/4		3/4		3/4		3/4		3/4	
6	3,516.16	6	3,856.87	6	4,196.69	6	4,536.08	6	4,873.25	6		6		6		6		6	
1/4	3,523.25	1/4	3,863.97	1/4	4,203.76	1/4	4,543.15	1/4	4,879.52	1/4		1/4		1/4		1/4		1/4	
1/2	3,530.35	1/2	3,871.07	1/2	4,210.83	1/2	4,550.22	1/2	4,885.80	1/2		1/2		1/2		1/2		1/2	
3/4	3,537.45	3/4	3,878.17	3/4	4,217.90	3/4	4,557.30	3/4	4,892.07	3/4		3/4		3/4		3/4		3/4	
7	3,544.55	7	3,885.27	7	4,224.97	7	4,564.37	7	4,898.35	7		7		7		7		7	
1/4	3,551.65	1/4	3,892.36	1/4	4,232.04	1/4	4,571.44	1/4	4,903.20	1/4		1/4		1/4		1/4		1/4	
1/2	3,558.74	1/2	3,899.46	1/2	4,239.11	1/2	4,578.51	1/2	4,908.06	1/2		1/2		1/2		1/2		1/2	
3/4	3,565.84	3/4	3,906.56	3/4	4,246.18	3/4	4,585.58	3/4	4,912.92	3/4		3/4		3/4		3/4		3/4	
8	3,572.94	8	3,913.66	8	4,253.26	8	4,592.65	8	4,917.78	8		8		8		8		8	
1/4	3,580.04	1/4	3,920.76	1/4	4,260.33	1/4	4,599.72	1/4	4,921.21	1/4		1/4		1/4		1/4		1/4	
1/2	3,587.14	1/2	3,927.85	1/2	4,267.40	1/2	4,606.79	1/2	4,924.65	1/2		1/2		1/2		1/2		1/2	
3/4	3,594.24	3/4	3,934.95	3/4	4,274.47	3/4	4,613.86	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,601.33	9	3,942.04	9	4,281.54	9	4,620.93	9		9		9		9		9		9	
1/4	3,608.43	1/4	3,949.14	1/4	4,288.61	1/4	4,628.00	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,615.53	1/2	3,956.24	1/2	4,295.68	1/2	4,635.07	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,622.63	3/4	3,963.33	3/4	4,302.75	3/4	4,642.14	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,629.73	10	3,970.43	10	4,309.82	10	4,649.21	10		10		10		10		10		10	
1/4	3,636.83	1/4	3,977.50	1/4	4,316.89	1/4	4,656.28	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,643.92	1/2	3,984.57	1/2	4,323.96	1/2	4,663.36	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,651.02	3/4	3,991.64	3/4	4,331.03	3/4	4,670.43	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,658.12	11	3,998.71	11	4,338.10	11	4,677.50	11		11		11		11		11		11	
1/4	3,665.22	1/4	4,005.78	1/4	4,345.17	1/4	4,684.57	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,672.32	1/2	4,012.85	1/2	4,352.24	1/2	4,691.64	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,679.42	3/4	4,019.92	3/4	4,359.32	3/4	4,698.71	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/09/2014 SW
CALCULATED: 12/10/2014 CL
PRINTED: 12/10/2014 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2014

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "HFL 457"

1 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CHEM 3004"

GAUGE HEIGHT 15'-11 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	14.92	0	289.01	0	621.22	0	961.88	0	1,302.70	0	1,643.52	0	1,984.34	0	2,325.16	0	2,665.98	0	3,006.71
1/4	17.82	1/4	295.57	1/4	628.30	1/4	968.98	1/4	1,309.80	1/4	1,650.62	1/4	1,991.44	1/4	2,332.26	1/4	2,673.08	1/4	3,013.81
1/2	20.72	1/2	302.13	1/2	635.38	1/2	976.08	1/2	1,316.90	1/2	1,657.72	1/2	1,998.54	1/2	2,339.36	1/2	2,680.18	1/2	3,020.91
3/4	23.63	3/4	308.69	3/4	642.47	3/4	983.18	3/4	1,324.00	3/4	1,664.82	3/4	2,005.64	3/4	2,346.46	3/4	2,687.28	3/4	3,028.01
1	26.53	1	315.25	1	649.55	1	990.29	1	1,331.10	1	1,671.92	1	2,012.74	1	2,353.56	1	2,694.38	1	3,035.11
1/4	31.29	1/4	321.89	1/4	656.64	1/4	997.39	1/4	1,338.20	1/4	1,679.02	1/4	2,019.84	1/4	2,360.66	1/4	2,701.48	1/4	3,042.21
1/2	36.04	1/2	328.54	1/2	663.73	1/2	1,004.49	1/2	1,345.31	1/2	1,686.12	1/2	2,026.94	1/2	2,367.76	1/2	2,708.58	1/2	3,049.30
3/4	40.80	3/4	335.18	3/4	670.82	3/4	1,011.59	3/4	1,352.41	3/4	1,693.22	3/4	2,034.04	3/4	2,374.86	3/4	2,715.68	3/4	3,056.40
2	45.55	2	341.82	2	677.91	2	1,018.69	2	1,359.51	2	1,700.33	2	2,041.14	2	2,381.96	2	2,722.78	2	3,063.50
1/4	51.20	1/4	348.55	1/4	685.00	1/4	1,025.79	1/4	1,366.61	1/4	1,707.43	1/4	2,048.24	1/4	2,389.06	1/4	2,729.88	1/4	3,070.60
1/2	56.84	1/2	355.28	1/2	692.09	1/2	1,032.89	1/2	1,373.71	1/2	1,714.53	1/2	2,055.35	1/2	2,396.16	1/2	2,736.98	1/2	3,077.70
3/4	62.48	3/4	362.01	3/4	699.18	3/4	1,039.99	3/4	1,380.81	3/4	1,721.63	3/4	2,062.45	3/4	2,403.26	3/4	2,744.08	3/4	3,084.80
3	68.12	3	368.73	3	706.27	3	1,047.09	3	1,387.91	3	1,728.73	3	2,069.55	3	2,410.37	3	2,751.18	3	3,091.89
1/4	73.89	1/4	375.54	1/4	713.37	1/4	1,054.19	1/4	1,395.01	1/4	1,735.83	1/4	2,076.65	1/4	2,417.47	1/4	2,758.27	1/4	3,098.99
1/2	79.65	1/2	382.35	1/2	720.47	1/2	1,061.29	1/2	1,402.11	1/2	1,742.93	1/2	2,083.75	1/2	2,424.57	1/2	2,765.37	1/2	3,106.09
3/4	85.42	3/4	389.16	3/4	727.57	3/4	1,068.39	3/4	1,409.21	3/4	1,750.03	3/4	2,090.85	3/4	2,431.67	3/4	2,772.47	3/4	3,113.19
4	91.18	4	395.97	4	734.67	4	1,075.49	4	1,416.31	4	1,757.13	4	2,097.95	4	2,438.77	4	2,779.57	4	3,120.29
1/4	97.05	1/4	402.86	1/4	741.77	1/4	1,082.59	1/4	1,423.41	1/4	1,764.23	1/4	2,105.05	1/4	2,445.87	1/4	2,786.67	1/4	3,127.39
1/2	102.92	1/2	409.76	1/2	748.87	1/2	1,089.69	1/2	1,430.51	1/2	1,771.33	1/2	2,112.15	1/2	2,452.97	1/2	2,793.77	1/2	3,134.48
3/4	108.79	3/4	416.65	3/4	755.97	3/4	1,096.79	3/4	1,437.61	3/4	1,778.43	3/4	2,119.25	3/4	2,460.07	3/4	2,800.86	3/4	3,141.58
5	114.66	5	423.54	5	763.07	5	1,103.89	5	1,444.71	5	1,785.53	5	2,126.35	5	2,467.17	5	2,807.96	5	3,148.68
1/4	120.63	1/4	430.50	1/4	770.17	1/4	1,110.99	1/4	1,451.81	1/4	1,792.63	1/4	2,133.45	1/4	2,474.27	1/4	2,815.06	1/4	3,155.78
1/2	126.60	1/2	437.46	1/2	777.27	1/2	1,118.09	1/2	1,458.91	1/2	1,799.73	1/2	2,140.55	1/2	2,481.37	1/2	2,822.16	1/2	3,162.88
3/4	132.56	3/4	444.42	3/4	784.37	3/4	1,125.19	3/4	1,466.01	3/4	1,806.83	3/4	2,147.65	3/4	2,488.47	3/4	2,829.26	3/4	3,169.98
6	138.53	6	451.38	6	791.47	6	1,132.29	6	1,473.11	6	1,813.93	6	2,154.75	6	2,495.57	6	2,836.36	6	3,177.07
1/4	144.59	1/4	458.42	1/4	798.57	1/4	1,139.39	1/4	1,480.21	1/4	1,821.03	1/4	2,161.85	1/4	2,502.67	1/4	2,843.45	1/4	3,184.17
1/2	150.65	1/2	465.46	1/2	805.67	1/2	1,146.49	1/2	1,487.31	1/2	1,828.13	1/2	2,168.95	1/2	2,509.77	1/2	2,850.55	1/2	3,191.27
3/4	156.71	3/4	472.50	3/4	812.77	3/4	1,153.59	3/4	1,494.41	3/4	1,835.23	3/4	2,176.05	3/4	2,516.87	3/4	2,857.65	3/4	3,198.37
7	162.77	7	479.55	7	819.88	7	1,160.69	7	1,501.51	7	1,842.33	7	2,183.15	7	2,523.97	7	2,864.75	7	3,205.47
1/4	168.91	1/4	486.63	1/4	826.98	1/4	1,167.80	1/4	1,508.61	1/4	1,849.43	1/4	2,190.25	1/4	2,531.07	1/4	2,871.85	1/4	3,212.57
1/2	175.06	1/2	493.71	1/2	834.08	1/2	1,174.90	1/2	1,515.71	1/2	1,856.53	1/2	2,197.35	1/2	2,538.17	1/2	2,878.95	1/2	3,219.66
3/4	181.20	3/4	500.80	3/4	841.18	3/4	1,182.00	3/4	1,522.82	3/4	1,863.63	3/4	2,204.45	3/4	2,545.27	3/4	2,886.04	3/4	3,226.76
8	187.35	8	507.88	8	848.28	8	1,189.10	8	1,529.92	8	1,870.73	8	2,211.55	8	2,552.37	8	2,893.14	8	3,233.86
1/4	193.58	1/4	514.96	1/4	855.38	1/4	1,196.20	1/4	1,537.02	1/4	1,877.84	1/4	2,218.65	1/4	2,559.47	1/4	2,900.24	1/4	3,240.96
1/2	199.81	1/2	522.05	1/2	862.48	1/2	1,203.30	1/2	1,544.12	1/2	1,884.94	1/2	2,225.75	1/2	2,566.57	1/2	2,907.34	1/2	3,248.06
3/4	206.04	3/4	529.13	3/4	869.58	3/4	1,210.40	3/4	1,551.22	3/4	1,892.04	3/4	2,232.86	3/4	2,573.67	3/4	2,914.44	3/4	3,255.16
9	212.27	9	536.21	9	876.68	9	1,217.50	9	1,558.32	9	1,899.14	9	2,239.96	9	2,580.77	9	2,921.53	9	3,262.25
1/4	218.58	1/4	543.30	1/4	883.78	1/4	1,224.60	1/4	1,565.42	1/4	1,906.24	1/4	2,247.06	1/4	2,587.87	1/4	2,928.63	1/4	3,269.35
1/2	224.89	1/2	550.38	1/2	890.88	1/2	1,231.70	1/2	1,572.52	1/2	1,913.34	1/2	2,254.16	1/2	2,594.98	1/2	2,935.73	1/2	3,276.45
3/4	231.20	3/4	557.47	3/4	897.98	3/4	1,238.80	3/4	1,579.62	3/4	1,920.44	3/4	2,261.26	3/4	2,602.08	3/4	2,942.83	3/4	3,283.55
10	237.51	10	564.55	10	905.08	10	1,245.90	10	1,586.72	10	1,927.54	10	2,268.36	10	2,609.18	10	2,949.93	10	3,290.65
1/4	243.91	1/4	571.63	1/4	912.18	1/4	1,253.00	1/4	1,593.82	1/4	1,934.64	1/4	2,275.46	1/4	2,616.28	1/4	2,957.03	1/4	3,297.74
1/2	250.30	1/2	578.72	1/2	919.28	1/2	1,260.10	1/2	1,600.92	1/2	1,941.74	1/2	2,282.56	1/2	2,623.38	1/2	2,964.12	1/2	3,304.84
3/4	256.70	3/4	585.80	3/4	926.38	3/4	1,267.20	3/4	1,608.02	3/4	1,948.84	3/4	2,289.66	3/4	2,630.48	3/4	2,971.22	3/4	3,311.94
11	263.09	11	592.88	11	933.48	11	1,274.30	11	1,615.12	11	1,955.94	11	2,296.76	11	2,637.58	11	2,978.32	11	3,319.04
1/4	269.57	1/4	599.97	1/4	940.58	1/4	1,281.40	1/4	1,622.22	1/4	1,963.04	1/4	2,303.86	1/4	2,644.68	1/4	2,985.42	1/4	3,326.14
1/2	276.05	1/2	607.05	1/2	947.68	1/2	1,288.50	1/2	1,629.32	1/2	1,970.14	1/2	2,310.96	1/2	2,651.78	1/2	2,992.52	1/2	3,333.24
3/4	282.53	3/4	614.13	3/4	954.78	3/4	1,295.60	3/4	1,636.42	3/4	1,977.24	3/4	2,318.06	3/4	2,658.88	3/4	2,999.62	3/4	3,340.33

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 INNAGE GAUGES TAKEN TO TOP OF 2" HERMETIC CLOSED GAUGING VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-09" OFF CENTERLINE AND 36'-06" 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 "HFL 457"

1 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CHEM 3004"

GAUGE HEIGHT 15'-11 1/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	3,347.43	0	3,688.15	0	4,028.63	0	4,368.02	0	4,707.42	0		0		0		0		0	
1/4	3,354.53	1/4	3,695.25	1/4	4,035.70	1/4	4,375.09	1/4	4,714.40	1/4		1/4		1/4		1/4		1/4	
1/2	3,361.63	1/2	3,702.35	1/2	4,042.77	1/2	4,382.16	1/2	4,721.38	1/2		1/2		1/2		1/2		1/2	
3/4	3,368.73	3/4	3,709.45	3/4	4,049.84	3/4	4,389.24	3/4	4,728.37	3/4		3/4		3/4		3/4		3/4	
1	3,375.83	1	3,716.54	1	4,056.91	1	4,396.31	1	4,735.35	1		1		1		1		1	
1/4	3,382.92	1/4	3,723.64	1/4	4,063.98	1/4	4,403.38	1/4	4,742.33	1/4		1/4		1/4		1/4		1/4	
1/2	3,390.02	1/2	3,730.74	1/2	4,071.05	1/2	4,410.45	1/2	4,749.31	1/2		1/2		1/2		1/2		1/2	
3/4	3,397.12	3/4	3,737.84	3/4	4,078.12	3/4	4,417.52	3/4	4,756.30	3/4		3/4		3/4		3/4		3/4	
2	3,404.22	2	3,744.94	2	4,085.20	2	4,424.59	2	4,763.28	2		2		2		2		2	
1/4	3,411.32	1/4	3,752.04	1/4	4,092.27	1/4	4,431.66	1/4	4,770.26	1/4		1/4		1/4		1/4		1/4	
1/2	3,418.42	1/2	3,759.13	1/2	4,099.34	1/2	4,438.73	1/2	4,777.25	1/2		1/2		1/2		1/2		1/2	
3/4	3,425.51	3/4	3,766.23	3/4	4,106.41	3/4	4,445.80	3/4	4,784.23	3/4		3/4		3/4		3/4		3/4	
3	3,432.61	3	3,773.33	3	4,113.48	3	4,452.87	3	4,791.21	3		3		3		3		3	
1/4	3,439.71	1/4	3,780.43	1/4	4,120.55	1/4	4,459.94	1/4	4,798.20	1/4		1/4		1/4		1/4		1/4	
1/2	3,446.81	1/2	3,787.53	1/2	4,127.62	1/2	4,467.01	1/2	4,805.19	1/2		1/2		1/2		1/2		1/2	
3/4	3,453.91	3/4	3,794.63	3/4	4,134.69	3/4	4,474.08	3/4	4,812.17	3/4		3/4		3/4		3/4		3/4	
4	3,461.01	4	3,801.72	4	4,141.76	4	4,481.15	4	4,819.16	4		4		4		4		4	
1/4	3,468.10	1/4	3,808.82	1/4	4,148.83	1/4	4,488.23	1/4	4,826.14	1/4		1/4		1/4		1/4		1/4	
1/2	3,475.20	1/2	3,815.92	1/2	4,155.90	1/2	4,495.30	1/2	4,833.12	1/2		1/2		1/2		1/2		1/2	
3/4	3,482.30	3/4	3,823.02	3/4	4,162.97	3/4	4,502.37	3/4	4,840.09	3/4		3/4		3/4		3/4		3/4	
5	3,489.40	5	3,830.12	5	4,170.04	5	4,509.44	5	4,847.07	5		5		5		5		5	
1/4	3,496.50	1/4	3,837.22	1/4	4,177.11	1/4	4,516.51	1/4	4,854.02	1/4		1/4		1/4		1/4		1/4	
1/2	3,503.60	1/2	3,844.31	1/2	4,184.19	1/2	4,523.58	1/2	4,860.98	1/2		1/2		1/2		1/2		1/2	
3/4	3,510.69	3/4	3,851.41	3/4	4,191.26	3/4	4,530.65	3/4	4,867.93	3/4		3/4		3/4		3/4		3/4	
6	3,517.79	6	3,858.51	6	4,198.33	6	4,537.72	6	4,874.88	6		6		6		6		6	
1/4	3,524.89	1/4	3,865.61	1/4	4,205.40	1/4	4,544.79	1/4	4,881.16	1/4		1/4		1/4		1/4		1/4	
1/2	3,531.99	1/2	3,872.71	1/2	4,212.47	1/2	4,551.86	1/2	4,887.43	1/2		1/2		1/2		1/2		1/2	
3/4	3,539.09	3/4	3,879.81	3/4	4,219.54	3/4	4,558.93	3/4	4,893.71	3/4		3/4		3/4		3/4		3/4	
7	3,546.19	7	3,886.90	7	4,226.61	7	4,566.00	7	4,899.98	7		7		7		7		7	
1/4	3,553.28	1/4	3,894.00	1/4	4,233.68	1/4	4,573.07	1/4	4,904.84	1/4		1/4		1/4		1/4		1/4	
1/2	3,560.38	1/2	3,901.10	1/2	4,240.75	1/2	4,580.14	1/2	4,909.70	1/2		1/2		1/2		1/2		1/2	
3/4	3,567.48	3/4	3,908.20	3/4	4,247.82	3/4	4,587.22	3/4	4,914.56	3/4		3/4		3/4		3/4		3/4	
8	3,574.58	8	3,915.30	8	4,254.89	8	4,594.29	8	4,919.41	8		8		8		8		8	
1/4	3,581.68	1/4	3,922.39	1/4	4,261.96	1/4	4,601.36	1/4	4,922.85	1/4		1/4		1/4		1/4		1/4	
1/2	3,588.78	1/2	3,929.49	1/2	4,269.03	1/2	4,608.43	1/2	4,926.29	1/2		1/2		1/2		1/2		1/2	
3/4	3,595.87	3/4	3,936.58	3/4	4,276.10	3/4	4,615.50	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,602.97	9	3,943.68	9	4,283.18	9	4,622.57	9		9		9		9		9		9	
1/4	3,610.07	1/4	3,950.78	1/4	4,290.25	1/4	4,629.64	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,617.17	1/2	3,957.87	1/2	4,297.32	1/2	4,636.71	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,624.27	3/4	3,964.97	3/4	4,304.39	3/4	4,643.78	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,631.37	10	3,972.06	10	4,311.46	10	4,650.85	10		10		10		10		10		10	
1/4	3,638.46	1/4	3,979.13	1/4	4,318.53	1/4	4,657.92	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,645.56	1/2	3,986.21	1/2	4,325.60	1/2	4,664.99	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,652.66	3/4	3,993.28	3/4	4,332.67	3/4	4,672.06	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,659.76	11	4,000.35	11	4,339.74	11	4,679.13	11		11		11		11		11		11	
1/4	3,666.86	1/4	4,007.42	1/4	4,346.81	1/4	4,686.20	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,673.95	1/2	4,014.49	1/2	4,353.88	1/2	4,693.28	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,681.05	3/4	4,021.56	3/4	4,360.95	3/4	4,700.35	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/09/2014 SW
CALCULATED: 12/10/2014 CL
PRINTED: 12/10/2014 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2014

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



BARGE "HFL 457"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CHEM 3004"

GAUGE HEIGHT 15'-11 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	15.58	0	356.65	0	704.84	0	1,055.72	0	1,412.46	0	1,769.20	0	2,125.93	0	2,482.67	0	2,839.40	0	3,196.05
1/4	20.23	1/4	364.09	1/4	711.97	1/4	1,063.16	1/4	1,419.89	1/4	1,776.63	1/4	2,133.36	1/4	2,490.10	1/4	2,846.84	1/4	3,203.48
1/2	24.87	1/2	371.52	1/2	719.10	1/2	1,070.59	1/2	1,427.32	1/2	1,784.06	1/2	2,140.80	1/2	2,497.53	1/2	2,854.27	1/2	3,210.91
3/4	29.52	3/4	378.95	3/4	726.22	3/4	1,078.02	3/4	1,434.76	3/4	1,791.49	3/4	2,148.23	3/4	2,504.96	3/4	2,861.70	3/4	3,218.34
1	34.16	1	386.38	1	733.35	1	1,085.45	1	1,442.19	1	1,798.92	1	2,155.66	1	2,512.40	1	2,869.13	1	3,225.77
1/4	40.66	1/4	393.81	1/4	740.48	1/4	1,092.88	1/4	1,449.62	1/4	1,806.36	1/4	2,163.09	1/4	2,519.83	1/4	2,876.56	1/4	3,233.20
1/2	47.16	1/2	401.24	1/2	747.62	1/2	1,100.32	1/2	1,457.05	1/2	1,813.79	1/2	2,170.52	1/2	2,527.26	1/2	2,884.00	1/2	3,240.63
3/4	53.65	3/4	408.68	3/4	754.75	3/4	1,107.75	3/4	1,464.48	3/4	1,821.22	3/4	2,177.96	3/4	2,534.69	3/4	2,891.43	3/4	3,248.06
2	60.15	2	416.11	2	761.88	2	1,115.18	2	1,471.92	2	1,828.65	2	2,185.39	2	2,542.12	2	2,898.86	2	3,255.49
1/4	67.49	1/4	423.54	1/4	769.02	1/4	1,122.61	1/4	1,479.35	1/4	1,836.08	1/4	2,192.82	1/4	2,549.56	1/4	2,906.29	1/4	3,262.92
1/2	74.83	1/2	430.97	1/2	776.15	1/2	1,130.04	1/2	1,486.78	1/2	1,843.52	1/2	2,200.25	1/2	2,556.99	1/2	2,913.72	1/2	3,270.35
3/4	82.17	3/4	438.40	3/4	783.29	3/4	1,137.48	3/4	1,494.21	3/4	1,850.95	3/4	2,207.68	3/4	2,564.42	3/4	2,921.15	3/4	3,277.78
3	89.51	3	445.84	3	790.42	3	1,144.91	3	1,501.64	3	1,858.38	3	2,215.12	3	2,571.85	3	2,928.58	3	3,285.21
1/4	96.89	1/4	453.27	1/4	797.57	1/4	1,152.34	1/4	1,509.08	1/4	1,865.81	1/4	2,222.55	1/4	2,579.28	1/4	2,936.01	1/4	3,292.64
1/2	104.27	1/2	460.70	1/2	804.72	1/2	1,159.77	1/2	1,516.51	1/2	1,873.24	1/2	2,229.98	1/2	2,586.72	1/2	2,943.44	1/2	3,300.07
3/4	111.65	3/4	468.13	3/4	811.87	3/4	1,167.20	3/4	1,523.94	3/4	1,880.68	3/4	2,237.41	3/4	2,594.15	3/4	2,950.87	3/4	3,307.50
4	119.03	4	475.56	4	819.02	4	1,174.64	4	1,531.37	4	1,888.11	4	2,244.84	4	2,601.58	4	2,958.30	4	3,314.93
1/4	126.43	1/4	482.99	1/4	826.17	1/4	1,182.07	1/4	1,538.80	1/4	1,895.54	1/4	2,252.28	1/4	2,609.01	1/4	2,965.73	1/4	3,322.36
1/2	133.83	1/2	490.43	1/2	833.33	1/2	1,189.50	1/2	1,546.24	1/2	1,902.97	1/2	2,259.71	1/2	2,616.44	1/2	2,973.16	1/2	3,329.79
3/4	141.24	3/4	497.86	3/4	840.48	3/4	1,196.93	3/4	1,553.67	3/4	1,910.40	3/4	2,267.14	3/4	2,623.88	3/4	2,980.59	3/4	3,337.22
5	148.64	5	505.29	5	847.63	5	1,204.36	5	1,561.10	5	1,917.84	5	2,274.57	5	2,631.31	5	2,988.02	5	3,344.65
1/4	156.06	1/4	512.42	1/4	855.06	1/4	1,211.80	1/4	1,568.53	1/4	1,925.27	1/4	2,282.00	1/4	2,638.74	1/4	2,995.45	1/4	3,352.08
1/2	163.48	1/2	519.54	1/2	862.49	1/2	1,219.23	1/2	1,575.96	1/2	1,932.70	1/2	2,289.44	1/2	2,646.17	1/2	3,002.88	1/2	3,359.51
3/4	170.89	3/4	526.67	3/4	869.92	3/4	1,226.66	3/4	1,583.40	3/4	1,940.13	3/4	2,296.87	3/4	2,653.60	3/4	3,010.31	3/4	3,366.94
6	178.31	6	533.80	6	877.36	6	1,234.09	6	1,590.83	6	1,947.56	6	2,304.30	6	2,661.04	6	3,017.74	6	3,374.37
1/4	185.74	1/4	540.92	1/4	884.79	1/4	1,241.52	1/4	1,598.26	1/4	1,955.00	1/4	2,311.73	1/4	2,668.47	1/4	3,025.17	1/4	3,381.80
1/2	193.17	1/2	548.05	1/2	892.22	1/2	1,248.96	1/2	1,605.69	1/2	1,962.43	1/2	2,319.16	1/2	2,675.90	1/2	3,032.60	1/2	3,389.23
3/4	200.59	3/4	555.18	3/4	899.65	3/4	1,256.39	3/4	1,613.12	3/4	1,969.86	3/4	2,326.60	3/4	2,683.33	3/4	3,040.03	3/4	3,396.66
7	208.02	7	562.30	7	907.08	7	1,263.82	7	1,620.56	7	1,977.29	7	2,334.03	7	2,690.76	7	3,047.46	7	3,404.09
1/4	215.45	1/4	569.43	1/4	914.52	1/4	1,271.25	1/4	1,627.99	1/4	1,984.72	1/4	2,341.46	1/4	2,698.20	1/4	3,054.89	1/4	3,411.52
1/2	222.88	1/2	576.56	1/2	921.95	1/2	1,278.68	1/2	1,635.42	1/2	1,992.16	1/2	2,348.89	1/2	2,705.63	1/2	3,062.31	1/2	3,418.95
3/4	230.31	3/4	583.69	3/4	929.38	3/4	1,286.12	3/4	1,642.85	3/4	1,999.59	3/4	2,356.32	3/4	2,713.06	3/4	3,069.74	3/4	3,426.38
8	237.74	8	590.81	8	936.81	8	1,293.55	8	1,650.28	8	2,007.02	8	2,363.76	8	2,720.49	8	3,077.17	8	3,433.80
1/4	245.18	1/4	597.94	1/4	944.24	1/4	1,300.98	1/4	1,657.72	1/4	2,014.45	1/4	2,371.19	1/4	2,727.92	1/4	3,084.60	1/4	3,441.23
1/2	252.61	1/2	605.07	1/2	951.68	1/2	1,308.41	1/2	1,665.15	1/2	2,021.88	1/2	2,378.62	1/2	2,735.36	1/2	3,092.03	1/2	3,448.66
3/4	260.04	3/4	612.19	3/4	959.11	3/4	1,315.84	3/4	1,672.58	3/4	2,029.32	3/4	2,386.05	3/4	2,742.79	3/4	3,099.46	3/4	3,456.09
9	267.47	9	619.32	9	966.54	9	1,323.28	9	1,680.01	9	2,036.75	9	2,393.48	9	2,750.22	9	3,106.89	9	3,463.52
1/4	274.90	1/4	626.45	1/4	973.97	1/4	1,330.71	1/4	1,687.44	1/4	2,044.18	1/4	2,400.92	1/4	2,757.65	1/4	3,114.32	1/4	3,470.95
1/2	282.34	1/2	633.57	1/2	981.40	1/2	1,338.14	1/2	1,694.88	1/2	2,051.61	1/2	2,408.35	1/2	2,765.08	1/2	3,121.75	1/2	3,478.38
3/4	289.77	3/4	640.70	3/4	988.84	3/4	1,345.57	3/4	1,702.31	3/4	2,059.04	3/4	2,415.78	3/4	2,772.52	3/4	3,129.18	3/4	3,485.81
10	297.20	10	647.83	10	996.27	10	1,353.00	10	1,709.74	10	2,066.48	10	2,423.21	10	2,779.95	10	3,136.61	10	3,493.24
1/4	304.63	1/4	654.95	1/4	1,003.70	1/4	1,360.44	1/4	1,717.17	1/4	2,073.91	1/4	2,430.64	1/4	2,787.38	1/4	3,144.04	1/4	3,500.67
1/2	312.06	1/2	662.08	1/2	1,011.13	1/2	1,367.87	1/2	1,724.60	1/2	2,081.34	1/2	2,438.08	1/2	2,794.81	1/2	3,151.47	1/2	3,508.10
3/4	319.49	3/4	669.21	3/4	1,018.56	3/4	1,375.30	3/4	1,732.04	3/4	2,088.77	3/4	2,445.51	3/4	2,802.24	3/4	3,158.90	3/4	3,515.53
11	326.93	11	676.34	11	1,026.00	11	1,382.73	11	1,739.47	11	2,096.20	11	2,452.94	11	2,809.68	11	3,166.33	11	3,522.96
1/4	334.36	1/4	683.46	1/4	1,033.43	1/4	1,390.16	1/4	1,746.90	1/4	2,103.64	1/4	2,460.37	1/4	2,817.11	1/4	3,173.76	1/4	3,530.39
1/2	341.79	1/2	690.59	1/2	1,040.86	1/2	1,397.60	1/2	1,754.33	1/2	2,111.07	1/2	2,467.80	1/2	2,824.54	1/2	3,181.19	1/2	3,537.82
3/4	349.22	3/4	697.72	3/4	1,048.29	3/4	1,405.03	3/4	1,761.76	3/4	2,118.50	3/4	2,475.24	3/4	2,831.97	3/4	3,188.62	3/4	3,545.25

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 INNAGE GAUGES TAKEN TO TOP OF 2" HERMETIC CLOSED GAUGING VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-09" OFF CENTERLINE AND 36'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "HFL 457"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CHEM 3004"

GAUGE HEIGHT 15'-11 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	3,552.68	0	3,909.31	0	4,265.71	0	4,621.02	0	4,976.33	0		0		0		0		0	
1/4	3,560.11	1/4	3,916.74	1/4	4,273.11	1/4	4,628.42	1/4	4,983.64	1/4		1/4		1/4		1/4		1/4	
1/2	3,567.54	1/2	3,924.17	1/2	4,280.51	1/2	4,635.82	1/2	4,990.96	1/2		1/2		1/2		1/2		1/2	
3/4	3,574.97	3/4	3,931.60	3/4	4,287.92	3/4	4,643.23	3/4	4,998.27	3/4		3/4		3/4		3/4		3/4	
1	3,582.40	1	3,939.03	1	4,295.32	1	4,650.63	1	5,005.59	1		1		1		1		1	
1/4	3,589.83	1/4	3,946.46	1/4	4,302.72	1/4	4,658.03	1/4	5,012.90	1/4		1/4		1/4		1/4		1/4	
1/2	3,597.26	1/2	3,953.89	1/2	4,310.12	1/2	4,665.43	1/2	5,020.22	1/2		1/2		1/2		1/2		1/2	
3/4	3,604.69	3/4	3,961.32	3/4	4,317.53	3/4	4,672.84	3/4	5,027.53	3/4		3/4		3/4		3/4		3/4	
2	3,612.12	2	3,968.75	2	4,324.93	2	4,680.24	2	5,034.84	2		2		2		2		2	
1/4	3,619.55	1/4	3,976.18	1/4	4,332.33	1/4	4,687.64	1/4	5,042.16	1/4		1/4		1/4		1/4		1/4	
1/2	3,626.98	1/2	3,983.61	1/2	4,339.73	1/2	4,695.04	1/2	5,049.47	1/2		1/2		1/2		1/2		1/2	
3/4	3,634.41	3/4	3,991.04	3/4	4,347.13	3/4	4,702.45	3/4	5,056.79	3/4		3/4		3/4		3/4		3/4	
3	3,641.84	3	3,998.47	3	4,354.54	3	4,709.85	3	5,064.10	3		3		3		3		3	
1/4	3,649.27	1/4	4,005.90	1/4	4,361.94	1/4	4,717.25	1/4	5,071.42	1/4		1/4		1/4		1/4		1/4	
1/2	3,656.70	1/2	4,013.33	1/2	4,369.34	1/2	4,724.65	1/2	5,078.74	1/2		1/2		1/2		1/2		1/2	
3/4	3,664.13	3/4	4,020.76	3/4	4,376.74	3/4	4,732.05	3/4	5,086.05	3/4		3/4		3/4		3/4		3/4	
4	3,671.56	4	4,028.19	4	4,384.15	4	4,739.46	4	5,093.37	4		4		4		4		4	
1/4	3,678.99	1/4	4,035.62	1/4	4,391.55	1/4	4,746.86	1/4	5,100.68	1/4		1/4		1/4		1/4		1/4	
1/2	3,686.42	1/2	4,043.05	1/2	4,398.95	1/2	4,754.26	1/2	5,107.98	1/2		1/2		1/2		1/2		1/2	
3/4	3,693.85	3/4	4,050.48	3/4	4,406.35	3/4	4,761.66	3/4	5,115.29	3/4		3/4		3/4		3/4		3/4	
5	3,701.28	5	4,057.91	5	4,413.76	5	4,769.07	5	5,122.60	5		5		5		5		5	
1/4	3,708.71	1/4	4,065.34	1/4	4,421.16	1/4	4,776.47	1/4	5,129.88	1/4		1/4		1/4		1/4		1/4	
1/2	3,716.14	1/2	4,072.77	1/2	4,428.56	1/2	4,783.87	1/2	5,137.17	1/2		1/2		1/2		1/2		1/2	
3/4	3,723.57	3/4	4,080.20	3/4	4,435.96	3/4	4,791.27	3/4	5,144.45	3/4		3/4		3/4		3/4		3/4	
6	3,731.00	6	4,087.63	6	4,443.36	6	4,798.68	6	5,151.73	6		6		6		6		6	
1/4	3,738.43	1/4	4,095.06	1/4	4,450.77	1/4	4,806.08	1/4	5,158.31	1/4		1/4		1/4		1/4		1/4	
1/2	3,745.86	1/2	4,102.49	1/2	4,458.17	1/2	4,813.48	1/2	5,164.88	1/2		1/2		1/2		1/2		1/2	
3/4	3,753.29	3/4	4,109.92	3/4	4,465.57	3/4	4,820.88	3/4	5,171.45	3/4		3/4		3/4		3/4		3/4	
7	3,760.72	7	4,117.35	7	4,472.97	7	4,828.28	7	5,178.03	7		7		7		7		7	
1/4	3,768.15	1/4	4,124.78	1/4	4,480.38	1/4	4,835.69	1/4	5,183.12	1/4		1/4		1/4		1/4		1/4	
1/2	3,775.58	1/2	4,132.21	1/2	4,487.78	1/2	4,843.09	1/2	5,188.21	1/2		1/2		1/2		1/2		1/2	
3/4	3,783.01	3/4	4,139.64	3/4	4,495.18	3/4	4,850.49	3/4	5,193.30	3/4		3/4		3/4		3/4		3/4	
8	3,790.44	8	4,147.07	8	4,502.58	8	4,857.89	8	5,198.38	8		8		8		8		8	
1/4	3,797.87	1/4	4,154.49	1/4	4,509.99	1/4	4,865.30	1/4	5,201.99	1/4		1/4		1/4		1/4		1/4	
1/2	3,805.29	1/2	4,161.92	1/2	4,517.39	1/2	4,872.70	1/2	5,205.59	1/2		1/2		1/2		1/2		1/2	
3/4	3,812.72	3/4	4,169.35	3/4	4,524.79	3/4	4,880.10	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,820.15	9	4,176.78	9	4,532.19	9	4,887.50	9		9		9		9		9		9	
1/4	3,827.58	1/4	4,184.21	1/4	4,539.59	1/4	4,894.91	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,835.01	1/2	4,191.63	1/2	4,547.00	1/2	4,902.31	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,842.44	3/4	4,199.06	3/4	4,554.40	3/4	4,909.71	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,849.87	10	4,206.49	10	4,561.80	10	4,917.11	10		10		10		10		10		10	
1/4	3,857.30	1/4	4,213.89	1/4	4,569.20	1/4	4,924.51	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,864.73	1/2	4,221.30	1/2	4,576.61	1/2	4,931.92	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,872.16	3/4	4,228.70	3/4	4,584.01	3/4	4,939.32	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,879.59	11	4,236.10	11	4,591.41	11	4,946.72	11		11		11		11		11		11	
1/4	3,887.02	1/4	4,243.50	1/4	4,598.81	1/4	4,954.12	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,894.45	1/2	4,250.91	1/2	4,606.22	1/2	4,961.53	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,901.88	3/4	4,258.31	3/4	4,613.62	3/4	4,968.93	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/09/2014 SW
CALCULATED: 12/10/2014 CL
PRINTED: 12/10/2014 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2014

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "HFL 457"

2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CHEM 3004"

GAUGE HEIGHT 15'-11 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	15.58	0	356.70	0	713.00	0	1,069.62	0	1,426.40	0	1,783.18	0	2,139.96	0	2,496.74	0	2,853.52	0	3,210.21
1/4	20.23	1/4	364.13	1/4	720.41	1/4	1,077.06	1/4	1,433.84	1/4	1,790.61	1/4	2,147.39	1/4	2,504.17	1/4	2,860.95	1/4	3,217.64
1/2	24.87	1/2	371.56	1/2	727.83	1/2	1,084.49	1/2	1,441.27	1/2	1,798.05	1/2	2,154.83	1/2	2,511.61	1/2	2,868.38	1/2	3,225.07
3/4	29.52	3/4	378.99	3/4	735.24	3/4	1,091.92	3/4	1,448.70	3/4	1,805.48	3/4	2,162.26	3/4	2,519.04	3/4	2,875.82	3/4	3,232.50
1	34.16	1	386.43	1	742.66	1	1,099.35	1	1,456.13	1	1,812.91	1	2,169.69	1	2,526.47	1	2,882.25	1	3,239.93
1/4	40.66	1/4	393.86	1/4	750.08	1/4	1,106.79	1/4	1,463.57	1/4	1,820.35	1/4	2,177.13	1/4	2,533.90	1/4	2,890.68	1/4	3,247.36
1/2	47.16	1/2	401.29	1/2	757.50	1/2	1,114.22	1/2	1,471.00	1/2	1,827.78	1/2	2,184.56	1/2	2,541.34	1/2	2,898.12	1/2	3,254.79
3/4	53.66	3/4	408.73	3/4	764.93	3/4	1,121.65	3/4	1,478.43	3/4	1,835.21	3/4	2,191.99	3/4	2,548.77	3/4	2,905.55	3/4	3,262.23
2	60.16	2	416.16	2	772.35	2	1,129.09	2	1,485.87	2	1,842.64	2	2,199.42	2	2,556.20	2	2,912.98	2	3,269.66
1/4	67.50	1/4	423.59	1/4	779.77	1/4	1,136.52	1/4	1,493.30	1/4	1,850.08	1/4	2,206.86	1/4	2,563.64	1/4	2,920.41	1/4	3,277.09
1/2	74.84	1/2	431.02	1/2	787.19	1/2	1,143.95	1/2	1,500.73	1/2	1,857.51	1/2	2,214.29	1/2	2,571.07	1/2	2,927.84	1/2	3,284.52
3/4	82.18	3/4	438.46	3/4	794.62	3/4	1,151.39	3/4	1,508.16	3/4	1,864.94	3/4	2,221.72	3/4	2,578.50	3/4	2,935.27	3/4	3,291.95
3	89.52	3	445.89	3	802.04	3	1,158.82	3	1,515.60	3	1,872.38	3	2,229.16	3	2,585.93	3	2,942.71	3	3,299.38
1/4	96.90	1/4	453.32	1/4	809.47	1/4	1,166.25	1/4	1,523.03	1/4	1,879.81	1/4	2,236.59	1/4	2,593.37	1/4	2,950.14	1/4	3,306.81
1/2	104.28	1/2	460.75	1/2	816.90	1/2	1,173.68	1/2	1,530.46	1/2	1,887.24	1/2	2,244.02	1/2	2,600.80	1/2	2,957.57	1/2	3,314.24
3/4	111.66	3/4	468.19	3/4	824.34	3/4	1,181.12	3/4	1,537.90	3/4	1,894.68	3/4	2,251.45	3/4	2,608.23	3/4	2,965.00	3/4	3,321.67
4	119.04	4	475.62	4	831.77	4	1,188.55	4	1,545.33	4	1,902.11	4	2,258.89	4	2,615.67	4	2,972.43	4	3,329.10
1/4	126.44	1/4	483.05	1/4	839.20	1/4	1,195.98	1/4	1,552.76	1/4	1,909.54	1/4	2,266.32	1/4	2,623.10	1/4	2,979.86	1/4	3,336.53
1/2	133.85	1/2	490.49	1/2	846.64	1/2	1,203.42	1/2	1,560.19	1/2	1,916.97	1/2	2,273.75	1/2	2,630.53	1/2	2,987.29	1/2	3,343.96
3/4	141.25	3/4	497.92	3/4	854.07	3/4	1,210.85	3/4	1,567.63	3/4	1,924.41	3/4	2,281.19	3/4	2,637.97	3/4	2,994.72	3/4	3,351.39
5	148.66	5	505.35	5	861.50	5	1,218.28	5	1,575.06	5	1,931.84	5	2,288.62	5	2,645.40	5	3,002.15	5	3,358.82
1/4	156.08	1/4	512.77	1/4	868.93	1/4	1,225.71	1/4	1,582.49	1/4	1,939.27	1/4	2,296.05	1/4	2,652.83	1/4	3,009.58	1/4	3,366.26
1/2	163.50	1/2	520.18	1/2	876.37	1/2	1,233.15	1/2	1,589.93	1/2	1,946.71	1/2	2,303.48	1/2	2,660.26	1/2	3,017.01	1/2	3,373.69
3/4	170.91	3/4	527.60	3/4	883.80	3/4	1,240.58	3/4	1,597.36	3/4	1,954.14	3/4	2,310.92	3/4	2,667.70	3/4	3,024.44	3/4	3,381.12
6	178.33	6	535.01	6	891.23	6	1,248.01	6	1,604.79	6	1,961.57	6	2,318.35	6	2,675.13	6	3,031.87	6	3,388.55
1/4	185.76	1/4	542.43	1/4	898.67	1/4	1,255.45	1/4	1,612.22	1/4	1,969.00	1/4	2,325.78	1/4	2,682.56	1/4	3,039.30	1/4	3,395.98
1/2	193.19	1/2	549.85	1/2	906.10	1/2	1,262.88	1/2	1,619.66	1/2	1,976.44	1/2	2,333.22	1/2	2,690.00	1/2	3,046.73	1/2	3,403.41
3/4	200.62	3/4	557.26	3/4	913.53	3/4	1,270.31	3/4	1,627.09	3/4	1,983.87	3/4	2,340.65	3/4	2,697.43	3/4	3,054.17	3/4	3,410.84
7	208.05	7	564.68	7	920.97	7	1,277.74	7	1,634.52	7	1,991.30	7	2,348.08	7	2,704.86	7	3,061.60	7	3,418.27
1/4	215.48	1/4	572.09	1/4	928.40	1/4	1,285.18	1/4	1,641.96	1/4	1,998.74	1/4	2,355.51	1/4	2,712.29	1/4	3,069.03	1/4	3,425.70
1/2	222.91	1/2	579.51	1/2	935.83	1/2	1,292.61	1/2	1,649.39	1/2	2,006.17	1/2	2,362.95	1/2	2,719.73	1/2	3,076.46	1/2	3,433.13
3/4	230.34	3/4	586.93	3/4	943.26	3/4	1,300.04	3/4	1,656.82	3/4	2,013.60	3/4	2,370.38	3/4	2,727.16	3/4	3,083.89	3/4	3,440.56
8	237.77	8	594.34	8	950.70	8	1,307.48	8	1,664.26	8	2,021.03	8	2,377.81	8	2,734.59	8	3,091.32	8	3,447.99
1/4	245.21	1/4	601.76	1/4	958.13	1/4	1,314.91	1/4	1,671.69	1/4	2,028.47	1/4	2,385.25	1/4	2,742.03	1/4	3,098.75	1/4	3,455.42
1/2	252.64	1/2	609.17	1/2	965.56	1/2	1,322.34	1/2	1,679.12	1/2	2,035.90	1/2	2,392.68	1/2	2,749.46	1/2	3,106.18	1/2	3,462.85
3/4	260.07	3/4	616.59	3/4	973.00	3/4	1,329.77	3/4	1,686.55	3/4	2,043.33	3/4	2,400.11	3/4	2,756.89	3/4	3,113.61	3/4	3,470.28
9	267.50	9	624.01	9	980.43	9	1,337.21	9	1,693.99	9	2,050.77	9	2,407.55	9	2,764.32	9	3,121.04	9	3,477.72
1/4	274.94	1/4	631.42	1/4	987.86	1/4	1,344.64	1/4	1,701.42	1/4	2,058.20	1/4	2,414.98	1/4	2,771.76	1/4	3,128.47	1/4	3,485.15
1/2	282.37	1/2	638.84	1/2	995.29	1/2	1,352.07	1/2	1,708.85	1/2	2,065.63	1/2	2,422.41	1/2	2,779.19	1/2	3,135.90	1/2	3,492.58
3/4	289.80	3/4	646.25	3/4	1,002.73	3/4	1,359.51	3/4	1,716.29	3/4	2,073.06	3/4	2,429.84	3/4	2,786.62	3/4	3,143.33	3/4	3,500.01
10	297.24	10	653.67	10	1,010.16	10	1,366.94	10	1,723.72	10	2,080.50	10	2,437.28	10	2,794.06	10	3,150.76	10	3,507.44
1/4	304.67	1/4	661.08	1/4	1,017.59	1/4	1,374.37	1/4	1,731.15	1/4	2,087.93	1/4	2,444.71	1/4	2,801.49	1/4	3,158.20	1/4	3,514.87
1/2	312.10	1/2	668.50	1/2	1,025.03	1/2	1,381.81	1/2	1,738.58	1/2	2,095.36	1/2	2,452.14	1/2	2,808.92	1/2	3,165.63	1/2	3,522.30
3/4	319.53	3/4	675.92	3/4	1,032.46	3/4	1,389.24	3/4	1,746.02	3/4	2,102.80	3/4	2,459.58	3/4	2,816.35	3/4	3,173.06	3/4	3,529.73
11	326.97	11	683.33	11	1,039.89	11	1,396.67	11	1,753.45	11	2,110.23	11	2,467.01	11	2,823.79	11	3,180.49	11	3,537.16
1/4	334.40	1/4	690.75	1/4	1,047.32	1/4	1,404.10	1/4	1,760.88	1/4	2,117.66	1/4	2,474.44	1/4	2,831.22	1/4	3,187.92	1/4	3,544.59
1/2	341.83	1/2	698.16	1/2	1,054.76	1/2	1,411.54	1/2	1,768.32	1/2	2,125.10	1/2	2,481.87	1/2	2,838.65	1/2	3,195.35	1/2	3,552.02
3/4	349.26	3/4	705.58	3/4	1,062.19	3/4	1,418.97	3/4	1,775.75	3/4	2,132.53	3/4	2,489.31	3/4	2,846.09	3/4	3,202.78	3/4	3,559.45

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 INNAGE GAUGES TAKEN TO TOP OF 2" HERMETIC CLOSED GAUGING VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-09" OFF CENTERLINE AND 36'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "HFL 457"

2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CHEM 3004"

GAUGE HEIGHT 15'-11 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	3,566.88	0	3,923.56	0	4,280.00	0	4,635.35	0	4,990.71	0		0		0		0		0	
1/4	3,574.31	1/4	3,930.99	1/4	4,287.40	1/4	4,642.76	1/4	4,998.02	1/4		1/4		1/4		1/4		1/4	
1/2	3,581.75	1/2	3,938.42	1/2	4,294.80	1/2	4,650.16	1/2	5,005.34	1/2		1/2		1/2		1/2		1/2	
3/4	3,589.18	3/4	3,945.85	3/4	4,302.21	3/4	4,657.56	3/4	5,012.65	3/4		3/4		3/4		3/4		3/4	
1	3,596.61	1	3,953.28	1	4,309.61	1	4,664.96	1	5,019.97	1		1		1		1		1	
1/4	3,604.04	1/4	3,960.71	1/4	4,317.01	1/4	4,672.37	1/4	5,027.28	1/4		1/4		1/4		1/4		1/4	
1/2	3,611.47	1/2	3,968.14	1/2	4,324.42	1/2	4,679.77	1/2	5,034.60	1/2		1/2		1/2		1/2		1/2	
3/4	3,618.90	3/4	3,975.57	3/4	4,331.82	3/4	4,687.17	3/4	5,041.91	3/4		3/4		3/4		3/4		3/4	
2	3,626.33	2	3,983.00	2	4,339.22	2	4,694.58	2	5,049.23	2		2		2		2		2	
1/4	3,633.76	1/4	3,990.43	1/4	4,346.63	1/4	4,701.98	1/4	5,056.54	1/4		1/4		1/4		1/4		1/4	
1/2	3,641.19	1/2	3,997.86	1/2	4,354.03	1/2	4,709.38	1/2	5,063.86	1/2		1/2		1/2		1/2		1/2	
3/4	3,648.62	3/4	4,005.30	3/4	4,361.43	3/4	4,716.79	3/4	5,071.17	3/4		3/4		3/4		3/4		3/4	
3	3,656.05	3	4,012.73	3	4,368.84	3	4,724.19	3	5,078.49	3		3		3		3		3	
1/4	3,663.48	1/4	4,020.16	1/4	4,376.24	1/4	4,731.59	1/4	5,085.81	1/4		1/4		1/4		1/4		1/4	
1/2	3,670.91	1/2	4,027.59	1/2	4,383.64	1/2	4,739.00	1/2	5,093.12	1/2		1/2		1/2		1/2		1/2	
3/4	3,678.34	3/4	4,035.02	3/4	4,391.05	3/4	4,746.40	3/4	5,100.44	3/4		3/4		3/4		3/4		3/4	
4	3,685.78	4	4,042.45	4	4,398.45	4	4,753.80	4	5,107.76	4		4		4		4		4	
1/4	3,693.21	1/4	4,049.88	1/4	4,405.85	1/4	4,761.21	1/4	5,115.07	1/4		1/4		1/4		1/4		1/4	
1/2	3,700.64	1/2	4,057.31	1/2	4,413.26	1/2	4,768.61	1/2	5,122.38	1/2		1/2		1/2		1/2		1/2	
3/4	3,708.07	3/4	4,064.74	3/4	4,420.66	3/4	4,776.01	3/4	5,129.69	3/4		3/4		3/4		3/4		3/4	
5	3,715.50	5	4,072.17	5	4,428.06	5	4,783.42	5	5,137.00	5		5		5		5		5	
1/4	3,722.93	1/4	4,079.60	1/4	4,435.47	1/4	4,790.82	1/4	5,144.28	1/4		1/4		1/4		1/4		1/4	
1/2	3,730.36	1/2	4,087.03	1/2	4,442.87	1/2	4,798.22	1/2	5,151.57	1/2		1/2		1/2		1/2		1/2	
3/4	3,737.79	3/4	4,094.46	3/4	4,450.27	3/4	4,805.63	3/4	5,158.85	3/4		3/4		3/4		3/4		3/4	
6	3,745.22	6	4,101.89	6	4,457.68	6	4,813.03	6	5,166.13	6		6		6		6		6	
1/4	3,752.65	1/4	4,109.33	1/4	4,465.08	1/4	4,820.43	1/4	5,172.71	1/4		1/4		1/4		1/4		1/4	
1/2	3,760.08	1/2	4,116.76	1/2	4,472.48	1/2	4,827.84	1/2	5,179.28	1/2		1/2		1/2		1/2		1/2	
3/4	3,767.51	3/4	4,124.19	3/4	4,479.88	3/4	4,835.24	3/4	5,185.86	3/4		3/4		3/4		3/4		3/4	
7	3,774.94	7	4,131.62	7	4,487.29	7	4,842.64	7	5,192.43	7		7		7		7		7	
1/4	3,782.37	1/4	4,139.05	1/4	4,494.69	1/4	4,850.04	1/4	5,197.52	1/4		1/4		1/4		1/4		1/4	
1/2	3,789.80	1/2	4,146.48	1/2	4,502.09	1/2	4,857.45	1/2	5,202.61	1/2		1/2		1/2		1/2		1/2	
3/4	3,797.24	3/4	4,153.91	3/4	4,509.50	3/4	4,864.85	3/4	5,207.70	3/4		3/4		3/4		3/4		3/4	
8	3,804.67	8	4,161.34	8	4,516.90	8	4,872.25	8	5,212.79	8		8		8		8		8	
1/4	3,812.10	1/4	4,168.77	1/4	4,524.30	1/4	4,879.66	1/4	5,216.39	1/4		1/4		1/4		1/4		1/4	
1/2	3,819.53	1/2	4,176.20	1/2	4,531.71	1/2	4,887.06	1/2	5,220.00	1/2		1/2		1/2		1/2		1/2	
3/4	3,826.96	3/4	4,183.63	3/4	4,539.11	3/4	4,894.46	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,834.39	9	4,191.06	9	4,546.51	9	4,901.87	9		9		9		9		9		9	
1/4	3,841.82	1/4	4,198.49	1/4	4,553.92	1/4	4,909.27	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,849.25	1/2	4,205.91	1/2	4,561.32	1/2	4,916.67	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,856.68	3/4	4,213.34	3/4	4,568.72	3/4	4,924.08	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,864.11	10	4,220.77	10	4,576.13	10	4,931.48	10		10		10		10		10		10	
1/4	3,871.54	1/4	4,228.18	1/4	4,583.53	1/4	4,938.88	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,878.97	1/2	4,235.58	1/2	4,590.93	1/2	4,946.29	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,886.40	3/4	4,242.98	3/4	4,598.34	3/4	4,953.69	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,893.83	11	4,250.39	11	4,605.74	11	4,961.09	11		11		11		11		11		11	
1/4	3,901.27	1/4	4,257.79	1/4	4,613.14	1/4	4,968.50	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,908.70	1/2	4,265.19	1/2	4,620.55	1/2	4,975.90	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,916.13	3/4	4,272.60	3/4	4,627.95	3/4	4,983.30	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/09/2014 SW
CALCULATED: 12/10/2014 CL
PRINTED: 12/10/2014 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2014

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



BARGE "HFL 457"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CHEM 3004"

GAUGE HEIGHT 15'-11 1/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	3,796.41	0	4,168.93	0	4,456.04	0	4,742.29	0	5,028.55	0		0		0		0		0	
1/4	3,804.35	1/4	4,174.91	1/4	4,462.00	1/4	4,748.26	1/4	5,034.44	1/4		1/4		1/4		1/4		1/4	
1/2	3,812.29	1/2	4,180.90	1/2	4,467.96	1/2	4,754.22	1/2	5,040.34	1/2		1/2		1/2		1/2		1/2	
3/4	3,820.22	3/4	4,186.88	3/4	4,473.93	3/4	4,760.18	3/4	5,046.23	3/4		3/4		3/4		3/4		3/4	
1	3,828.16	1	4,192.87	1	4,479.89	1	4,766.15	1	5,052.12	1		1		1		1		1	
1/4	3,836.10	1/4	4,198.85	1/4	4,485.85	1/4	4,772.11	1/4	5,058.02	1/4		1/4		1/4		1/4		1/4	
1/2	3,844.04	1/2	4,204.84	1/2	4,491.82	1/2	4,778.08	1/2	5,063.91	1/2		1/2		1/2		1/2		1/2	
3/4	3,851.98	3/4	4,210.82	3/4	4,497.78	3/4	4,784.04	3/4	5,069.80	3/4		3/4		3/4		3/4		3/4	
2	3,859.91	2	4,216.81	2	4,503.75	2	4,790.00	2	5,075.70	2		2		2		2		2	
1/4	3,867.85	1/4	4,222.79	1/4	4,509.71	1/4	4,795.97	1/4	5,081.59	1/4		1/4		1/4		1/4		1/4	
1/2	3,875.79	1/2	4,228.78	1/2	4,515.67	1/2	4,801.93	1/2	5,087.48	1/2		1/2		1/2		1/2		1/2	
3/4	3,883.73	3/4	4,234.76	3/4	4,521.64	3/4	4,807.89	3/4	5,093.38	3/4		3/4		3/4		3/4		3/4	
3	3,891.67	3	4,240.75	3	4,527.60	3	4,813.86	3	5,099.27	3		3		3		3		3	
1/4	3,899.61	1/4	4,246.74	1/4	4,533.56	1/4	4,819.82	1/4	5,105.16	1/4		1/4		1/4		1/4		1/4	
1/2	3,907.54	1/2	4,252.72	1/2	4,539.53	1/2	4,825.79	1/2	5,111.06	1/2		1/2		1/2		1/2		1/2	
3/4	3,915.48	3/4	4,258.71	3/4	4,545.49	3/4	4,831.75	3/4	5,116.95	3/4		3/4		3/4		3/4		3/4	
4	3,923.42	4	4,264.69	4	4,551.46	4	4,837.71	4	5,122.85	4		4		4		4		4	
1/4	3,931.32	1/4	4,270.68	1/4	4,557.42	1/4	4,843.68	1/4	5,128.73	1/4		1/4		1/4		1/4		1/4	
1/2	3,939.22	1/2	4,276.66	1/2	4,563.38	1/2	4,849.64	1/2	5,134.62	1/2		1/2		1/2		1/2		1/2	
3/4	3,947.12	3/4	4,282.65	3/4	4,569.35	3/4	4,855.60	3/4	5,140.50	3/4		3/4		3/4		3/4		3/4	
5	3,955.02	5	4,288.63	5	4,575.31	5	4,861.57	5	5,146.39	5		5		5		5		5	
1/4	3,962.92	1/4	4,294.62	1/4	4,581.27	1/4	4,867.53	1/4	5,152.25	1/4		1/4		1/4		1/4		1/4	
1/2	3,970.81	1/2	4,300.60	1/2	4,587.24	1/2	4,873.49	1/2	5,158.11	1/2		1/2		1/2		1/2		1/2	
3/4	3,978.71	3/4	4,306.59	3/4	4,593.20	3/4	4,879.46	3/4	5,163.96	3/4		3/4		3/4		3/4		3/4	
6	3,986.61	6	4,312.57	6	4,599.16	6	4,885.42	6	5,169.82	6		6		6		6		6	
1/4	3,994.51	1/4	4,318.56	1/4	4,605.13	1/4	4,891.39	1/4	5,174.92	1/4		1/4		1/4		1/4		1/4	
1/2	4,002.41	1/2	4,324.54	1/2	4,611.09	1/2	4,897.35	1/2	5,180.02	1/2		1/2		1/2		1/2		1/2	
3/4	4,010.31	3/4	4,330.53	3/4	4,617.06	3/4	4,903.31	3/4	5,185.12	3/4		3/4		3/4		3/4		3/4	
7	4,018.21	7	4,336.51	7	4,623.02	7	4,909.28	7	5,190.22	7		7		7		7		7	
1/4	4,026.12	1/4	4,342.50	1/4	4,628.98	1/4	4,915.24	1/4	5,193.73	1/4		1/4		1/4		1/4		1/4	
1/2	4,034.03	1/2	4,348.49	1/2	4,634.95	1/2	4,921.20	1/2	5,197.24	1/2		1/2		1/2		1/2		1/2	
3/4	4,041.95	3/4	4,354.47	3/4	4,640.91	3/4	4,927.17	3/4	5,200.75	3/4		3/4		3/4		3/4		3/4	
8	4,049.86	8	4,360.46	8	4,646.87	8	4,933.13	8	5,204.26	8		8		8		8		8	
1/4	4,057.77	1/4	4,366.44	1/4	4,652.84	1/4	4,939.10	1/4	5,206.17	1/4		1/4		1/4		1/4		1/4	
1/2	4,065.68	1/2	4,372.42	1/2	4,658.80	1/2	4,945.06	1/2	5,208.09	1/2		1/2		1/2		1/2		1/2	
3/4	4,073.60	3/4	4,378.41	3/4	4,664.77	3/4	4,951.02	3/4		3/4		3/4		3/4		3/4		3/4	
9	4,081.51	9	4,384.39	9	4,670.73	9	4,956.99	9		9		9		9		9		9	
1/4	4,089.42	1/4	4,390.37	1/4	4,676.69	1/4	4,962.95	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,097.33	1/2	4,396.36	1/2	4,682.66	1/2	4,968.91	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,105.25	3/4	4,402.34	3/4	4,688.62	3/4	4,974.88	3/4		3/4		3/4		3/4		3/4		3/4	
10	4,113.16	10	4,408.33	10	4,694.58	10	4,980.84	10		10		10		10		10		10	
1/4	4,121.12	1/4	4,414.29	1/4	4,700.55	1/4	4,986.81	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,129.07	1/2	4,420.25	1/2	4,706.51	1/2	4,992.77	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,137.03	3/4	4,426.22	3/4	4,712.47	3/4	4,998.73	3/4		3/4		3/4		3/4		3/4		3/4	
11	4,144.99	11	4,432.18	11	4,718.44	11	5,004.70	11		11		11		11		11		11	
1/4	4,150.97	1/4	4,438.14	1/4	4,724.40	1/4	5,010.66	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,156.96	1/2	4,444.11	1/2	4,730.37	1/2	5,016.62	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,162.94	3/4	4,450.07	3/4	4,736.33	3/4	5,022.59	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/09/2014 SW
CALCULATED: 12/10/2014 CL
PRINTED: 12/10/2014 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2014

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



BARGE "HFL 457"

**3 STBD
INNAGE TABLE**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CHEM 3004"

GAUGE HEIGHT 15'-11 1/2"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
0	3,818.28	0	4,191.19	0	4,478.26	0	4,764.54	0	5,050.81	0		0		0		0		0	
1/4	3,826.23	1/4	4,197.17	1/4	4,484.23	1/4	4,770.50	1/4	5,056.70	1/4		1/4		1/4		1/4		1/4	
1/2	3,834.18	1/2	4,203.16	1/2	4,490.19	1/2	4,776.46	1/2	5,062.60	1/2		1/2		1/2		1/2		1/2	
3/4	3,842.13	3/4	4,209.14	3/4	4,496.16	3/4	4,782.43	3/4	5,068.49	3/4		3/4		3/4		3/4		3/4	
1	3,850.08	1	4,215.12	1	4,502.12	1	4,788.39	1	5,074.38	1		1		1		1		1	
1/4	3,858.04	1/4	4,221.11	1/4	4,508.08	1/4	4,794.36	1/4	5,080.28	1/4		1/4		1/4		1/4		1/4	
1/2	3,865.99	1/2	4,227.09	1/2	4,514.05	1/2	4,800.32	1/2	5,086.17	1/2		1/2		1/2		1/2		1/2	
3/4	3,873.94	3/4	4,233.08	3/4	4,520.01	3/4	4,806.28	3/4	5,092.06	3/4		3/4		3/4		3/4		3/4	
2	3,881.89	2	4,239.06	2	4,525.98	2	4,812.25	2	5,097.96	2		2		2		2		2	
1/4	3,889.84	1/4	4,245.05	1/4	4,531.94	1/4	4,818.21	1/4	5,103.85	1/4		1/4		1/4		1/4		1/4	
1/2	3,897.80	1/2	4,251.03	1/2	4,537.90	1/2	4,824.18	1/2	5,109.75	1/2		1/2		1/2		1/2		1/2	
3/4	3,905.75	3/4	4,257.02	3/4	4,543.87	3/4	4,830.14	3/4	5,115.64	3/4		3/4		3/4		3/4		3/4	
3	3,913.70	3	4,263.00	3	4,549.83	3	4,836.10	3	5,121.53	3		3		3		3		3	
1/4	3,921.65	1/4	4,268.99	1/4	4,555.80	1/4	4,842.07	1/4	5,127.43	1/4		1/4		1/4		1/4		1/4	
1/2	3,929.60	1/2	4,274.97	1/2	4,561.76	1/2	4,848.03	1/2	5,133.32	1/2		1/2		1/2		1/2		1/2	
3/4	3,937.56	3/4	4,280.95	3/4	4,567.72	3/4	4,854.00	3/4	5,139.22	3/4		3/4		3/4		3/4		3/4	
4	3,945.51	4	4,286.94	4	4,573.69	4	4,859.96	4	5,145.11	4		4		4		4		4	
1/4	3,953.42	1/4	4,292.92	1/4	4,579.65	1/4	4,865.92	1/4	5,151.00	1/4		1/4		1/4		1/4		1/4	
1/2	3,961.34	1/2	4,298.91	1/2	4,585.62	1/2	4,871.89	1/2	5,156.88	1/2		1/2		1/2		1/2		1/2	
3/4	3,969.25	3/4	4,304.89	3/4	4,591.58	3/4	4,877.85	3/4	5,162.77	3/4		3/4		3/4		3/4		3/4	
5	3,977.16	5	4,310.88	5	4,597.54	5	4,883.82	5	5,168.65	5		5		5		5		5	
1/4	3,985.07	1/4	4,316.86	1/4	4,603.51	1/4	4,889.78	1/4	5,174.51	1/4		1/4		1/4		1/4		1/4	
1/2	3,992.99	1/2	4,322.85	1/2	4,609.47	1/2	4,895.74	1/2	5,180.37	1/2		1/2		1/2		1/2		1/2	
3/4	4,000.90	3/4	4,328.83	3/4	4,615.44	3/4	4,901.71	3/4	5,186.23	3/4		3/4		3/4		3/4		3/4	
6	4,008.81	6	4,334.81	6	4,621.40	6	4,907.67	6	5,192.09	6		6		6		6		6	
1/4	4,016.73	1/4	4,340.80	1/4	4,627.36	1/4	4,913.64	1/4	5,197.19	1/4		1/4		1/4		1/4		1/4	
1/2	4,024.64	1/2	4,346.78	1/2	4,633.33	1/2	4,919.60	1/2	5,202.29	1/2		1/2		1/2		1/2		1/2	
3/4	4,032.55	3/4	4,352.77	3/4	4,639.29	3/4	4,925.56	3/4	5,207.39	3/4		3/4		3/4		3/4		3/4	
7	4,040.47	7	4,358.75	7	4,645.26	7	4,931.53	7	5,212.49	7		7		7		7		7	
1/4	4,048.38	1/4	4,364.74	1/4	4,651.22	1/4	4,937.49	1/4	5,215.99	1/4		1/4		1/4		1/4		1/4	
1/2	4,056.29	1/2	4,370.72	1/2	4,657.18	1/2	4,943.46	1/2	5,219.50	1/2		1/2		1/2		1/2		1/2	
3/4	4,064.21	3/4	4,376.71	3/4	4,663.15	3/4	4,949.42	3/4	5,223.01	3/4		3/4		3/4		3/4		3/4	
8	4,072.12	8	4,382.69	8	4,669.11	8	4,955.38	8	5,226.52	8		8		8		8		8	
1/4	4,080.03	1/4	4,388.67	1/4	4,675.08	1/4	4,961.35	1/4	5,228.44	1/4		1/4		1/4		1/4		1/4	
1/2	4,087.95	1/2	4,394.66	1/2	4,681.04	1/2	4,967.31	1/2	5,230.36	1/2		1/2		1/2		1/2		1/2	
3/4	4,095.86	3/4	4,400.64	3/4	4,687.00	3/4	4,973.28	3/4		3/4		3/4		3/4		3/4		3/4	
9	4,103.77	9	4,406.62	9	4,692.97	9	4,979.24	9		9		9		9		9		9	
1/4	4,111.69	1/4	4,412.60	1/4	4,698.93	1/4	4,985.20	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,119.60	1/2	4,418.59	1/2	4,704.90	1/2	4,991.17	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,127.51	3/4	4,424.57	3/4	4,710.86	3/4	4,997.13	3/4		3/4		3/4		3/4		3/4		3/4	
10	4,135.43	10	4,430.55	10	4,716.82	10	5,003.10	10		10		10		10		10		10	
1/4	4,143.38	1/4	4,436.52	1/4	4,722.79	1/4	5,009.06	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,151.34	1/2	4,442.48	1/2	4,728.75	1/2	5,015.02	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,159.29	3/4	4,448.44	3/4	4,734.72	3/4	5,020.99	3/4		3/4		3/4		3/4		3/4		3/4	
11	4,167.25	11	4,454.41	11	4,740.68	11	5,026.95	11		11		11		11		11		11	
1/4	4,173.23	1/4	4,460.37	1/4	4,746.64	1/4	5,032.92	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,179.22	1/2	4,466.34	1/2	4,752.61	1/2	5,038.88	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,185.20	3/4	4,472.30	3/4	4,758.57	3/4	5,044.84	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/09/2014 SW
CALCULATED: 12/10/2014 CL
PRINTED: 12/10/2014 CL

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

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2014



BARGE "HFL 457"

PORT SLOP TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

FORMERLY "CHEM 3004"

GAUGE HEIGHT 4'-11 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	983	0	1,965	0	2,948	0		0		0		0		0		0	
1/4	20	1/4	1,003	1/4	1,986	1/4	2,968	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	41	1/2	1,023	1/2	2,006	1/2	2,989	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	61	3/4	1,044	3/4	2,027	3/4	3,009	3/4		3/4		3/4		3/4		3/4		3/4	
1	82	1	1,064	1	2,047	1	3,030	1		1		1		1		1		1	
1/4	102	1/4	1,085	1/4	2,067	1/4	3,050	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	123	1/2	1,105	1/2	2,088	1/2	3,070	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	143	3/4	1,126	3/4	2,108	3/4	3,091	3/4		3/4		3/4		3/4		3/4		3/4	
2	164	2	1,146	2	2,129	2	3,111	2		2		2		2		2		2	
1/4	184	1/4	1,167	1/4	2,149	1/4	3,132	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	205	1/2	1,187	1/2	2,170	1/2	3,152	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	225	3/4	1,208	3/4	2,190	3/4	3,173	3/4		3/4		3/4		3/4		3/4		3/4	
3	246	3	1,228	3	2,211	3	3,193	3		3		3		3		3		3	
1/4	266	1/4	1,249	1/4	2,231	1/4	3,214	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	287	1/2	1,269	1/2	2,252	1/2	3,234	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	307	3/4	1,290	3/4	2,272	3/4	3,255	3/4		3/4		3/4		3/4		3/4		3/4	
4	328	4	1,310	4	2,293	4	3,275	4		4		4		4		4		4	
1/4	348	1/4	1,331	1/4	2,313	1/4	3,296	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	368	1/2	1,351	1/2	2,334	1/2	3,316	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	389	3/4	1,371	3/4	2,354	3/4	3,337	3/4		3/4		3/4		3/4		3/4		3/4	
5	409	5	1,392	5	2,374	5	3,357	5		5		5		5		5		5	
1/4	430	1/4	1,412	1/4	2,395	1/4	3,378	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	450	1/2	1,433	1/2	2,415	1/2	3,398	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	471	3/4	1,453	3/4	2,436	3/4	3,418	3/4		3/4		3/4		3/4		3/4		3/4	
6	491	6	1,474	6	2,456	6	3,439	6		6		6		6		6		6	
1/4	512	1/4	1,494	1/4	2,477	1/4	3,459	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	532	1/2	1,515	1/2	2,497	1/2	3,480	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	553	3/4	1,535	3/4	2,518	3/4	3,500	3/4		3/4		3/4		3/4		3/4		3/4	
7	573	7	1,556	7	2,538	7	3,521	7		7		7		7		7		7	
1/4	594	1/4	1,576	1/4	2,559	1/4	3,541	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	614	1/2	1,597	1/2	2,579	1/2	3,562	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	635	3/4	1,617	3/4	2,600	3/4	3,582	3/4		3/4		3/4		3/4		3/4		3/4	
8	655	8	1,638	8	2,620	8	3,603	8		8		8		8		8		8	
1/4	676	1/4	1,658	1/4	2,641	1/4	3,623	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	696	1/2	1,679	1/2	2,661	1/2	3,644	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	716	3/4	1,699	3/4	2,682	3/4	3,664	3/4		3/4		3/4		3/4		3/4		3/4	
9	737	9	1,719	9	2,702	9	3,685	9		9		9		9		9		9	
1/4	757	1/4	1,740	1/4	2,722	1/4	3,705	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	778	1/2	1,760	1/2	2,743	1/2	3,725	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	798	3/4	1,781	3/4	2,763	3/4	3,746	3/4		3/4		3/4		3/4		3/4		3/4	
10	819	10	1,801	10	2,784	10	3,766	10		10		10		10		10		10	
1/4	839	1/4	1,822	1/4	2,804	1/4	3,787	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	860	1/2	1,842	1/2	2,825	1/2	3,807	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	880	3/4	1,863	3/4	2,845	3/4	3,827	3/4		3/4		3/4		3/4		3/4		3/4	
11	901	11	1,883	11	2,866	11	3,848	11		11		11		11		11		11	
1/4	921	1/4	1,904	1/4	2,886	1/4	3,858	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	942	1/2	1,924	1/2	2,907	1/2	3,868	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	962	3/4	1,945	3/4	2,927	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

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 INNAGE GAUGES TAKEN TOP 2" DIAMETER HERMETIC VALVE.

STRAPPED: 12/09/2014 SW
CALCULATED: 12/09/2014 CL
PRINTED: 12/09/2014 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2014

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



BARGE "HFL 457"

STBD SLOP TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

FORMERLY "CHEM 3004"

GAUGE HEIGHT 4'-11 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	983	0	1,965	0	2,948	0		0		0		0		0		0	
1/4	20	1/4	1,003	1/4	1,986	1/4	2,968	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	41	1/2	1,023	1/2	2,006	1/2	2,989	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	61	3/4	1,044	3/4	2,027	3/4	3,009	3/4		3/4		3/4		3/4		3/4		3/4	
1	82	1	1,064	1	2,047	1	3,030	1		1		1		1		1		1	
1/4	102	1/4	1,085	1/4	2,067	1/4	3,050	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	123	1/2	1,105	1/2	2,088	1/2	3,070	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	143	3/4	1,126	3/4	2,108	3/4	3,091	3/4		3/4		3/4		3/4		3/4		3/4	
2	164	2	1,146	2	2,129	2	3,111	2		2		2		2		2		2	
1/4	184	1/4	1,167	1/4	2,149	1/4	3,132	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	205	1/2	1,187	1/2	2,170	1/2	3,152	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	225	3/4	1,208	3/4	2,190	3/4	3,173	3/4		3/4		3/4		3/4		3/4		3/4	
3	246	3	1,228	3	2,211	3	3,193	3		3		3		3		3		3	
1/4	266	1/4	1,249	1/4	2,231	1/4	3,214	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	287	1/2	1,269	1/2	2,252	1/2	3,234	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	307	3/4	1,290	3/4	2,272	3/4	3,255	3/4		3/4		3/4		3/4		3/4		3/4	
4	328	4	1,310	4	2,293	4	3,275	4		4		4		4		4		4	
1/4	348	1/4	1,331	1/4	2,313	1/4	3,296	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	368	1/2	1,351	1/2	2,334	1/2	3,316	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	389	3/4	1,371	3/4	2,354	3/4	3,337	3/4		3/4		3/4		3/4		3/4		3/4	
5	409	5	1,392	5	2,374	5	3,357	5		5		5		5		5		5	
1/4	430	1/4	1,412	1/4	2,395	1/4	3,378	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	450	1/2	1,433	1/2	2,415	1/2	3,398	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	471	3/4	1,453	3/4	2,436	3/4	3,418	3/4		3/4		3/4		3/4		3/4		3/4	
6	491	6	1,474	6	2,456	6	3,439	6		6		6		6		6		6	
1/4	512	1/4	1,494	1/4	2,477	1/4	3,459	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	532	1/2	1,515	1/2	2,497	1/2	3,480	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	553	3/4	1,535	3/4	2,518	3/4	3,500	3/4		3/4		3/4		3/4		3/4		3/4	
7	573	7	1,556	7	2,538	7	3,521	7		7		7		7		7		7	
1/4	594	1/4	1,576	1/4	2,559	1/4	3,541	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	614	1/2	1,597	1/2	2,579	1/2	3,562	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	635	3/4	1,617	3/4	2,600	3/4	3,582	3/4		3/4		3/4		3/4		3/4		3/4	
8	655	8	1,638	8	2,620	8	3,603	8		8		8		8		8		8	
1/4	676	1/4	1,658	1/4	2,641	1/4	3,623	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	696	1/2	1,679	1/2	2,661	1/2	3,644	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	716	3/4	1,699	3/4	2,682	3/4	3,664	3/4		3/4		3/4		3/4		3/4		3/4	
9	737	9	1,719	9	2,702	9	3,685	9		9		9		9		9		9	
1/4	757	1/4	1,740	1/4	2,722	1/4	3,705	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	778	1/2	1,760	1/2	2,743	1/2	3,725	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	798	3/4	1,781	3/4	2,763	3/4	3,746	3/4		3/4		3/4		3/4		3/4		3/4	
10	819	10	1,801	10	2,784	10	3,766	10		10		10		10		10		10	
1/4	839	1/4	1,822	1/4	2,804	1/4	3,787	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	860	1/2	1,842	1/2	2,825	1/2	3,807	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	880	3/4	1,863	3/4	2,845	3/4	3,827	3/4		3/4		3/4		3/4		3/4		3/4	
11	901	11	1,883	11	2,866	11	3,848	11		11		11		11		11		11	
1/4	921	1/4	1,904	1/4	2,886	1/4	3,858	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	942	1/2	1,924	1/2	2,907	1/2	3,868	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	962	3/4	1,945	3/4	2,927	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

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 INNAGE GAUGES TAKEN TOP 2" DIAMETER HERMETIC VALVE.

STRAPPED: 12/09/2014 SW
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CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2014

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



BARGE "HFL 457"

FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

FORMERLY "CHEM 3004"

GAUGE HEIGHT 4'-03 3/4"

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	110	0	280	0	448	0		0		0		0		0		0	
1/4	1	1/4	113	1/4	283	1/4	451	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1	1/2	116	1/2	287	1/2	455	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2	3/4	119	3/4	291	3/4	458	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	3	1	123	1	295	1	461	1	1	1	1	1	1	1	1	1	1	1	1
1/4	4	1/4	126	1/4	298	1/4	464	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	5	1/2	129	1/2	302	1/2	467	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	7	3/4	133	3/4	306	3/4	470	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	8	2	136	2	309	2	473	2	2	2	2	2	2	2	2	2	2	2	2
1/4	10	1/4	139	1/4	313	1/4	476	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	11	1/2	143	1/2	317	1/2	478	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	13	3/4	146	3/4	320	3/4	481	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	15	3	150	3	324	3	484	3	3	3	3	3	3	3	3	3	3	3	3
1/4	17	1/4	153	1/4	328	1/4	487	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	18	1/2	157	1/2	331	1/2	490	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	20	3/4	160	3/4	335	3/4	492	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	22	4	164	4	338	4	495	4	4	4	4	4	4	4	4	4	4	4	4
1/4	25	1/4	167	1/4	342	1/4	498	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	27	1/2	171	1/2	346	1/2	500	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	29	3/4	174	3/4	349	3/4	503	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	31	5	178	5	353	5	505	5	5	5	5	5	5	5	5	5	5	5	5
1/4	33	1/4	181	1/4	357	1/4	508	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	36	1/2	185	1/2	360	1/2	510	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	38	3/4	188	3/4	364	3/4	513	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	40	6	192	6	367	6	515	6	6	6	6	6	6	6	6	6	6	6	6
1/4	43	1/4	195	1/4	371	1/4	517	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	46	1/2	199	1/2	374	1/2	520	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	48	3/4	203	3/4	378	3/4	522	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	51	7	206	7	381	7	524	7	7	7	7	7	7	7	7	7	7	7	7
1/4	53	1/4	210	1/4	385	1/4	526	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	56	1/2	214	1/2	388	1/2	528	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	59	3/4	217	3/4	392	3/4	530	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	61	8	221	8	395	8	532	8	8	8	8	8	8	8	8	8	8	8	8
1/4	64	1/4	225	1/4	399	1/4	534	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	67	1/2	228	1/2	402	1/2	535	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	70	3/4	232	3/4	406	3/4	537	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	73	9	236	9	409	9	539	9	9	9	9	9	9	9	9	9	9	9	9
1/4	76	1/4	239	1/4	412	1/4	540	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	79	1/2	243	1/2	416	1/2	542	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	82	3/4	247	3/4	419	3/4	543	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	85	10	250	10	422	10	544	10	10	10	10	10	10	10	10	10	10	10	10
1/4	88	1/4	254	1/4	426	1/4	545	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	91	1/2	258	1/2	429	1/2	546	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	94	3/4	261	3/4	432	3/4	547	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	97	11	265	11	436	11	548	11	11	11	11	11	11	11	11	11	11	11	11
1/4	100	1/4	269	1/4	439	1/4	548	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	103	1/2	272	1/2	442	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	106	3/4	276	3/4	445	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

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 INNAGE GAUGES TAKEN TO 2" DIAMETER PIPE.

STRAPPED: 12/09/2014 SW
CALCULATED: 12/09/2014 CL
PRINTED: 12/09/2014 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2014

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