

HFL 401

INNAGE TRIM TABLE

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

LENGTH BETWEEN DRAFT MARKS: 237'-08"

FWD. DRAFT = 1'-00"
AFT DRAFT = 4'-00"
DIFF. = 3'-00" (DOWN BY STERN)

December 14, 2021

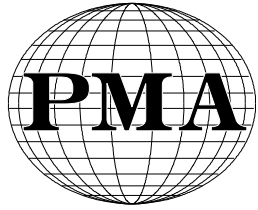
**PRECISION MEASUREMENT
& ANALYSIS, INC.**

P.O. Box 2092
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SHEET NO. 1 OF 2

THE CORRECTION FOR 3'-00" TRIM DOWN BY STERN FOR 1 PORT IS 00-1/8"
FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 1 PORT THE TRIM CORRECTED INNAGE IS 4'-00 1/8"



HFL 401

INNAGE TRIM TABLE

	7 FT.		8 FT.		9 FT.		10 FT.		11 FT.		12 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	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-3/8	00-3/8
1 STBD	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-3/8	00-3/8
2 PORT	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-1/4
2 STBD	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-1/4
3 PORT	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
3 STBD	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

LENGTH BETWEEN DRAFT MARKS: 237'-08"

FWD. DRAFT = 1'-00"
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December 14, 2021

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SHEET NO. 2 OF 2

THE CORRECTION FOR 3'-00" TRIM DOWN BY STERN FOR 1 PORT IS 00-1/8"
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 1 PORT THE TRIM CORRECTED INNAGE IS 4'-00 1/8"



BARGE "HFL 401"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/2"

IN	0 FT.	IN	0 FT.	IN	1 FT.	IN	1 FT.	IN	2 FT.	IN	2 FT.	IN	3 FT.	IN	3 FT.	IN	4 FT.	IN	4 FT.
0	21.50	6	173.17	0	339.50	6	514.55	0	693.67	6	872.79	0	1,051.90	6	1,231.02	0	1,410.17	6	1,589.29
1/8	24.03	1/8	176.56	1/8	343.08	1/8	518.28	1/8	697.40	1/8	876.52	1/8	1,055.64	1/8	1,234.76	1/8	1,413.90	1/8	1,593.02
1/4	26.55	1/4	179.96	1/4	346.66	1/4	522.01	1/4	701.13	1/4	880.25	1/4	1,059.37	1/4	1,238.49	1/4	1,417.63	1/4	1,596.75
3/8	29.08	3/8	183.35	3/8	350.24	3/8	525.74	3/8	704.86	3/8	883.98	3/8	1,063.10	3/8	1,242.22	3/8	1,421.35	3/8	1,600.48
1/2	31.61	1/2	186.75	1/2	353.82	1/2	529.48	1/2	708.60	1/2	887.71	1/2	1,066.83	1/2	1,245.95	1/2	1,425.08	1/2	1,604.21
5/8	34.13	5/8	190.15	5/8	357.40	5/8	533.21	5/8	712.33	5/8	891.45	5/8	1,070.57	5/8	1,249.68	5/8	1,428.81	5/8	1,607.95
3/4	36.66	3/4	193.54	3/4	360.98	3/4	536.94	3/4	716.06	3/4	895.18	3/4	1,074.30	3/4	1,253.42	3/4	1,432.54	3/4	1,611.68
7/8	39.19	7/8	196.94	7/8	364.56	7/8	540.67	7/8	719.79	7/8	898.91	7/8	1,078.03	7/8	1,257.15	7/8	1,436.27	7/8	1,615.41
1	41.71	7	200.33	1	368.14	7	544.40	1	723.52	7	902.64	1	1,081.76	7	1,260.88	1	1,440.00	7	1,619.14
1/8	44.89	1/8	203.75	1/8	371.74	1/8	548.13	1/8	727.26	1/8	906.38	1/8	1,085.49	1/8	1,264.61	1/8	1,443.73	1/8	1,622.88
1/4	48.07	1/4	207.16	1/4	375.33	1/4	551.86	1/4	730.99	1/4	910.11	1/4	1,089.23	1/4	1,268.35	1/4	1,447.46	1/4	1,626.61
3/8	51.25	3/8	210.57	3/8	378.92	3/8	555.59	3/8	734.72	3/8	913.84	3/8	1,092.96	3/8	1,272.08	3/8	1,451.20	3/8	1,630.34
1/2	54.43	1/2	213.99	1/2	382.51	1/2	559.32	1/2	738.45	1/2	917.57	1/2	1,096.69	1/2	1,275.81	1/2	1,454.93	1/2	1,634.07
5/8	57.61	5/8	217.40	5/8	386.10	5/8	563.05	5/8	742.18	5/8	921.30	5/8	1,100.42	5/8	1,279.54	5/8	1,458.66	5/8	1,637.80
3/4	60.79	3/4	220.82	3/4	389.70	3/4	566.78	3/4	745.92	3/4	925.04	3/4	1,104.15	3/4	1,283.27	3/4	1,462.39	3/4	1,641.54
7/8	63.96	7/8	224.23	7/8	393.29	7/8	570.51	7/8	749.65	7/8	928.77	7/8	1,107.89	7/8	1,287.01	7/8	1,466.13	7/8	1,645.27
2	67.14	8	227.64	2	396.88	8	574.24	2	753.38	8	932.50	2	1,111.62	8	1,290.74	2	1,469.86	8	1,649.00
1/8	70.42	1/8	231.10	1/8	400.52	1/8	577.97	1/8	757.11	1/8	936.23	1/8	1,115.35	1/8	1,294.47	1/8	1,473.59	1/8	1,652.73
1/4	73.69	1/4	234.55	1/4	404.17	1/4	581.70	1/4	760.84	1/4	939.96	1/4	1,119.08	1/4	1,298.20	1/4	1,477.32	1/4	1,656.46
3/8	76.96	3/8	238.01	3/8	407.81	3/8	585.43	3/8	764.57	3/8	943.70	3/8	1,122.82	3/8	1,301.93	3/8	1,481.05	3/8	1,660.19
1/2	80.24	1/2	241.46	1/2	411.45	1/2	589.17	1/2	768.30	1/2	947.43	1/2	1,126.55	1/2	1,305.67	1/2	1,484.79	1/2	1,663.92
5/8	83.51	5/8	244.92	5/8	415.10	5/8	592.90	5/8	772.03	5/8	951.16	5/8	1,130.28	5/8	1,309.40	5/8	1,488.52	5/8	1,667.65
3/4	86.79	3/4	248.38	3/4	418.74	3/4	596.63	3/4	775.76	3/4	954.89	3/4	1,134.01	3/4	1,313.13	3/4	1,492.25	3/4	1,671.38
7/8	90.06	7/8	251.83	7/8	422.38	7/8	600.36	7/8	779.49	7/8	958.63	7/8	1,137.74	7/8	1,316.86	7/8	1,495.98	7/8	1,675.10
3	93.33	9	255.29	3	426.02	9	604.10	3	783.21	9	962.36	3	1,141.48	9	1,320.60	3	1,499.71	9	1,678.83
1/8	96.63	1/8	258.76	1/8	429.68	1/8	607.83	1/8	786.95	1/8	966.09	1/8	1,145.21	1/8	1,324.33	1/8	1,503.45	1/8	1,682.57
1/4	99.92	1/4	262.23	1/4	433.33	1/4	611.56	1/4	790.68	1/4	969.82	1/4	1,148.94	1/4	1,328.06	1/4	1,507.18	1/4	1,686.30
3/8	103.21	3/8	265.71	3/8	436.99	3/8	615.29	3/8	794.41	3/8	973.55	3/8	1,152.67	3/8	1,331.79	3/8	1,510.91	3/8	1,690.03
1/2	106.50	1/2	269.18	1/2	440.64	1/2	619.02	1/2	798.14	1/2	977.29	1/2	1,156.40	1/2	1,335.52	1/2	1,514.64	1/2	1,693.76
5/8	109.79	5/8	272.65	5/8	444.30	5/8	622.76	5/8	801.88	5/8	981.02	5/8	1,160.14	5/8	1,339.26	5/8	1,518.38	5/8	1,697.49
3/4	113.08	3/4	276.13	3/4	447.95	3/4	626.49	3/4	805.61	3/4	984.75	3/4	1,163.87	3/4	1,342.99	3/4	1,522.11	3/4	1,701.23
7/8	116.37	7/8	279.60	7/8	451.61	7/8	630.22	7/8	809.34	7/8	988.48	7/8	1,167.60	7/8	1,346.72	7/8	1,525.84	7/8	1,704.96
4	119.67	10	283.07	4	455.26	10	633.95	4	813.07	10	992.21	4	1,171.33	10	1,350.45	4	1,529.57	10	1,708.69
1/8	123.00	1/8	286.59	1/8	458.96	1/8	637.68	1/8	816.80	1/8	995.94	1/8	1,175.07	1/8	1,354.18	1/8	1,533.30	1/8	1,712.42
1/4	126.34	1/4	290.11	1/4	462.66	1/4	641.42	1/4	820.54	1/4	999.67	1/4	1,178.80	1/4	1,357.92	1/4	1,537.04	1/4	1,716.15
3/8	129.68	3/8	293.63	3/8	466.36	3/8	645.15	3/8	824.27	3/8	1,003.40	3/8	1,182.53	3/8	1,361.65	3/8	1,540.77	3/8	1,719.89
1/2	133.01	1/2	297.15	1/2	470.06	1/2	648.88	1/2	828.00	1/2	1,007.13	1/2	1,186.26	1/2	1,365.38	1/2	1,544.50	1/2	1,723.62
5/8	136.35	5/8	300.68	5/8	473.76	5/8	652.61	5/8	831.73	5/8	1,010.86	5/8	1,189.99	5/8	1,369.11	5/8	1,548.23	5/8	1,727.35
3/4	139.68	3/4	304.20	3/4	477.46	3/4	656.35	3/4	835.46	3/4	1,014.59	3/4	1,193.73	3/4	1,372.85	3/4	1,551.96	3/4	1,731.08
7/8	143.02	7/8	307.72	7/8	481.16	7/8	660.08	7/8	839.20	7/8	1,018.32	7/8	1,197.46	7/8	1,376.58	7/8	1,555.70	7/8	1,734.82
5	146.36	11	311.24	5	484.86	11	663.81	5	842.93	11	1,022.05	5	1,201.19	11	1,380.31	5	1,559.43	11	1,738.55
1/8	149.71	1/8	314.77	1/8	488.57	1/8	667.54	1/8	846.66	1/8	1,025.78	1/8	1,204.92	1/8	1,384.04	1/8	1,563.16	1/8	1,742.28
1/4	153.06	1/4	318.30	1/4	492.28	1/4	671.27	1/4	850.39	1/4	1,029.51	1/4	1,208.65	1/4	1,387.77	1/4	1,566.89	1/4	1,746.01
3/8	156.41	3/8	321.84	3/8	495.99	3/8	675.01	3/8	854.13	3/8	1,033.24	3/8	1,212.38	3/8	1,391.51	3/8	1,570.63	3/8	1,749.74
1/2	159.76	1/2	325.37	1/2	499.70	1/2	678.74	1/2	857.86	1/2	1,036.98	1/2	1,216.11	1/2	1,395.24	1/2	1,574.36	1/2	1,753.48
5/8	163.11	5/8	328.90	5/8	503.41	5/8	682.47	5/8	861.59	5/8	1,040.71	5/8	1,219.84	5/8	1,398.97	5/8	1,578.09	5/8	1,757.21
3/4	166.46	3/4	332.43	3/4	507.13	3/4	686.20	3/4	865.32	3/4	1,044.44	3/4	1,223.57	3/4	1,402.70	3/4	1,581.82	3/4	1,760.94
7/8	169.82	7/8	335.97	7/8	510.84	7/8	689.93	7/8	869.05	7/8	1,048.17	7/8	1,227.29	7/8	1,406.43	7/8	1,585.55	7/8	1,764.67

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 AT 2" DIAMETER BALL VALVE.

GAUGE POINT: (2" BALL VALVE) LOCATED NEAR CENTER OF TANK

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT

& ANALYSIS, INC.

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BARGE "HFL 401"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/2"

IN	5 FT.	IN	5 FT.	IN	6 FT.	IN	6 FT.	IN	7 FT.	IN	7 FT.	IN	8 FT.	IN	8 FT.	IN	9 FT.	IN	9 FT.
0	1,768.40	6	1,947.52	0	2,126.64	6	2,305.79	0	2,484.90	6	2,664.02	0	2,843.14	6	3,022.26	0	3,201.38	6	3,380.52
1/8	1,772.14	1/8	1,951.26	1/8	2,130.38	1/8	2,309.51	1/8	2,488.64	1/8	2,667.76	1/8	2,846.88	1/8	3,025.99	1/8	3,205.11	1/8	3,384.26
1/4	1,775.87	1/4	1,954.99	1/4	2,134.11	1/4	2,313.24	1/4	2,492.37	1/4	2,671.49	1/4	2,850.61	1/4	3,029.73	1/4	3,208.85	1/4	3,387.99
3/8	1,779.60	3/8	1,958.72	3/8	2,137.84	3/8	2,316.97	3/8	2,496.10	3/8	2,675.22	3/8	2,854.34	3/8	3,033.46	3/8	3,212.58	3/8	3,391.72
1/2	1,783.33	1/2	1,962.45	1/2	2,141.57	1/2	2,320.70	1/2	2,499.83	1/2	2,678.95	1/2	2,858.07	1/2	3,037.19	1/2	3,216.31	1/2	3,395.45
5/8	1,787.07	5/8	1,966.18	5/8	2,145.30	5/8	2,324.43	5/8	2,503.57	5/8	2,682.68	5/8	2,861.80	5/8	3,040.92	5/8	3,220.04	5/8	3,399.18
3/4	1,790.80	3/4	1,969.92	3/4	2,149.04	3/4	2,328.16	3/4	2,507.30	3/4	2,686.42	3/4	2,865.54	3/4	3,044.65	3/4	3,223.77	3/4	3,402.92
7/8	1,794.53	7/8	1,973.65	7/8	2,152.77	7/8	2,331.89	7/8	2,511.03	7/8	2,690.15	7/8	2,869.27	7/8	3,048.39	7/8	3,227.51	7/8	3,406.65
1	1,798.26	7	1,977.38	1	2,156.50	7	2,335.62	1	2,514.76	7	2,693.88	1	2,873.00	7	3,052.12	1	3,231.24	7	3,410.38
1/8	1,801.99	1/8	1,981.11	1/8	2,160.23	1/8	2,339.35	1/8	2,518.49	1/8	2,697.61	1/8	2,876.73	1/8	3,055.85	1/8	3,234.97	1/8	3,414.11
1/4	1,805.73	1/4	1,984.85	1/4	2,163.96	1/4	2,343.08	1/4	2,522.22	1/4	2,701.35	1/4	2,880.46	1/4	3,059.58	1/4	3,238.70	1/4	3,417.84
3/8	1,809.46	3/8	1,988.58	3/8	2,167.70	3/8	2,346.82	3/8	2,525.95	3/8	2,705.08	3/8	2,884.20	3/8	3,063.32	3/8	3,242.43	3/8	3,421.57
1/2	1,813.19	1/2	1,992.31	1/2	2,171.43	1/2	2,350.55	1/2	2,529.68	1/2	2,708.81	1/2	2,887.93	1/2	3,067.05	1/2	3,246.17	1/2	3,425.30
5/8	1,816.92	5/8	1,996.04	5/8	2,175.16	5/8	2,354.28	5/8	2,533.41	5/8	2,712.54	5/8	2,891.66	5/8	3,070.78	5/8	3,249.90	5/8	3,429.03
3/4	1,820.65	3/4	1,999.77	3/4	2,178.89	3/4	2,358.01	3/4	2,537.14	3/4	2,716.27	3/4	2,895.39	3/4	3,074.51	3/4	3,253.63	3/4	3,432.76
7/8	1,824.39	7/8	2,003.51	7/8	2,182.63	7/8	2,361.74	7/8	2,540.87	7/8	2,720.01	7/8	2,899.13	7/8	3,078.24	7/8	3,257.36	7/8	3,436.49
2	1,828.12	8	2,007.24	2	2,186.36	8	2,365.48	2	2,544.60	8	2,723.74	2	2,902.86	8	3,081.98	2	3,261.10	8	3,440.21
1/8	1,831.85	1/8	2,010.97	1/8	2,190.09	1/8	2,369.21	1/8	2,548.33	1/8	2,727.47	1/8	2,906.59	1/8	3,085.71	1/8	3,264.83	1/8	3,443.95
1/4	1,835.58	1/4	2,014.70	1/4	2,193.82	1/4	2,372.94	1/4	2,552.06	1/4	2,731.20	1/4	2,910.32	1/4	3,089.44	1/4	3,268.56	1/4	3,447.68
3/8	1,839.32	3/8	2,018.43	3/8	2,197.55	3/8	2,376.67	3/8	2,555.79	3/8	2,734.93	3/8	2,914.05	3/8	3,093.17	3/8	3,272.29	3/8	3,451.41
1/2	1,843.05	1/2	2,022.17	1/2	2,201.29	1/2	2,380.40	1/2	2,559.52	1/2	2,738.67	1/2	2,917.79	1/2	3,096.90	1/2	3,276.02	1/2	3,455.14
5/8	1,846.78	5/8	2,025.90	5/8	2,205.02	5/8	2,384.14	5/8	2,563.26	5/8	2,742.40	5/8	2,921.52	5/8	3,100.64	5/8	3,279.76	5/8	3,458.88
3/4	1,850.51	3/4	2,029.63	3/4	2,208.75	3/4	2,387.87	3/4	2,566.99	3/4	2,746.13	3/4	2,925.25	3/4	3,104.37	3/4	3,283.49	3/4	3,462.61
7/8	1,854.24	7/8	2,033.36	7/8	2,212.48	7/8	2,391.60	7/8	2,570.72	7/8	2,749.86	7/8	2,928.98	7/8	3,108.10	7/8	3,287.22	7/8	3,466.34
3	1,857.98	9	2,037.10	3	2,216.21	9	2,395.33	3	2,574.45	9	2,753.60	3	2,932.71	9	3,111.83	3	3,290.95	9	3,470.07
1/8	1,861.71	1/8	2,040.83	1/8	2,219.95	1/8	2,399.07	1/8	2,578.18	1/8	2,757.32	1/8	2,936.45	1/8	3,115.57	1/8	3,294.68	1/8	3,473.80
1/4	1,865.43	1/4	2,044.56	1/4	2,223.68	1/4	2,402.80	1/4	2,581.92	1/4	2,761.05	1/4	2,940.18	1/4	3,119.30	1/4	3,298.42	1/4	3,477.54
3/8	1,869.16	3/8	2,048.29	3/8	2,227.41	3/8	2,406.53	3/8	2,585.65	3/8	2,764.78	3/8	2,943.91	3/8	3,123.03	3/8	3,302.15	3/8	3,481.27
1/2	1,872.89	1/2	2,052.02	1/2	2,231.14	1/2	2,410.26	1/2	2,589.38	1/2	2,768.51	1/2	2,947.64	1/2	3,126.76	1/2	3,305.88	1/2	3,485.00
5/8	1,876.62	5/8	2,055.76	5/8	2,234.88	5/8	2,413.99	5/8	2,593.11	5/8	2,772.24	5/8	2,951.38	5/8	3,130.49	5/8	3,309.61	5/8	3,488.73
3/4	1,880.35	3/4	2,059.49	3/4	2,238.61	3/4	2,417.73	3/4	2,596.85	3/4	2,775.97	3/4	2,955.11	3/4	3,134.23	3/4	3,313.35	3/4	3,492.46
7/8	1,884.08	7/8	2,063.22	7/8	2,242.34	7/8	2,421.46	7/8	2,600.58	7/8	2,779.70	7/8	2,958.84	7/8	3,137.96	7/8	3,317.08	7/8	3,496.20
4	1,887.81	10	2,066.95	4	2,246.07	10	2,425.19	4	2,604.31	10	2,783.43	4	2,962.57	10	3,141.69	4	3,320.81	10	3,499.93
1/8	1,891.54	1/8	2,070.68	1/8	2,249.80	1/8	2,428.92	1/8	2,608.04	1/8	2,787.16	1/8	2,966.30	1/8	3,145.42	1/8	3,324.54	1/8	3,503.66
1/4	1,895.27	1/4	2,074.42	1/4	2,253.54	1/4	2,432.65	1/4	2,611.77	1/4	2,790.89	1/4	2,970.03	1/4	3,149.15	1/4	3,328.27	1/4	3,507.39
3/8	1,899.01	3/8	2,078.15	3/8	2,257.27	3/8	2,436.39	3/8	2,615.51	3/8	2,794.63	3/8	2,973.76	3/8	3,152.89	3/8	3,332.01	3/8	3,511.13
1/2	1,902.74	1/2	2,081.88	1/2	2,261.00	1/2	2,440.12	1/2	2,619.24	1/2	2,798.36	1/2	2,977.49	1/2	3,156.62	1/2	3,335.74	1/2	3,514.86
5/8	1,906.47	5/8	2,085.61	5/8	2,264.73	5/8	2,443.85	5/8	2,622.97	5/8	2,802.09	5/8	2,981.22	5/8	3,160.35	5/8	3,339.47	5/8	3,518.59
3/4	1,910.20	3/4	2,089.35	3/4	2,268.46	3/4	2,447.58	3/4	2,626.70	3/4	2,805.82	3/4	2,984.95	3/4	3,164.08	3/4	3,343.20	3/4	3,522.32
7/8	1,913.93	7/8	2,093.08	7/8	2,272.20	7/8	2,451.32	7/8	2,630.43	7/8	2,809.55	7/8	2,988.68	7/8	3,167.82	7/8	3,346.93	7/8	3,526.05
5	1,917.67	11	2,096.81	5	2,275.93	11	2,455.05	5	2,634.17	11	2,813.29	5	2,992.40	11	3,171.55	5	3,350.67	11	3,529.79
1/8	1,921.40	1/8	2,100.54	1/8	2,279.66	1/8	2,458.78	1/8	2,637.90	1/8	2,817.02	1/8	2,996.14	1/8	3,175.28	1/8	3,354.40	1/8	3,533.52
1/4	1,925.13	1/4	2,104.27	1/4	2,283.39	1/4	2,462.51	1/4	2,641.63	1/4	2,820.75	1/4	2,999.87	1/4	3,179.01	1/4	3,358.13	1/4	3,537.25
3/8	1,928.86	3/8	2,108.00	3/8	2,287.13	3/8	2,466.24	3/8	2,645.36	3/8	2,824.48	3/8	3,003.60	3/8	3,182.74	3/8	3,361.86	3/8	3,540.98
1/2	1,932.60	1/2	2,111.73	1/2	2,290.86	1/2	2,469.98	1/2	2,649.10	1/2	2,828.21	1/2	3,007.33	1/2	3,186.46	1/2	3,365.60	1/2	3,544.71
5/8	1,936.33	5/8	2,115.46	5/8	2,294.59	5/8	2,473.71	5/8	2,652.83	5/8	2,831.95	5/8	3,011.07	5/8	3,190.19	5/8	3,369.33	5/8	3,548.45
3/4	1,940.06	3/4	2,119.18	3/4	2,298.32	3/4	2,477.44	3/4	2,656.56	3/4	2,835.68	3/4	3,014.80	3/4	3,193.92	3/4	3,373.06	3/4	3,552.18
7/8	1,943.79	7/8	2,122.91	7/8	2,302.05	7/8	2,481.17	7/8	2,660.29	7/8	2,839.41	7/8	3,018.53	7/8	3,197.65	7/8	3,376.79	7/8	3,555.91

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 401"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/2"

IN	10 FT.	IN	10 FT.	IN	11 FT.	IN	11 FT.	IN	12 FT.	IN	12 FT.	IN	13 FT.	IN	13 FT.	IN	14 FT.	IN	14 FT.
0	3,559.64	6	3,738.76	0	3,917.88	6	4,097.00	0	4,276.14	6	4,455.26	0	4,634.38	6	4,813.50	0	4,992.62	6	5,098.19
1/8	3,563.38	1/8	3,742.49	1/8	3,921.61	1/8	4,100.73	1/8	4,279.87	1/8	4,458.99	1/8	4,638.11	1/8	4,817.23	1/8	4,996.15	1/8	5,098.51
1/4	3,567.11	1/4	3,746.23	1/4	3,925.35	1/4	4,104.46	1/4	4,283.60	1/4	4,462.73	1/4	4,641.85	1/4	4,820.96	1/4	4,999.67	1/4	5,098.84
3/8	3,570.84	3/8	3,749.96	3/8	3,929.08	3/8	4,108.20	3/8	4,287.33	3/8	4,466.46	3/8	4,645.58	3/8	4,824.70	3/8	5,003.20	3/8	5,099.16
1/2	3,574.57	1/2	3,753.69	1/2	3,932.81	1/2	4,111.93	1/2	4,291.06	1/2	4,470.19	1/2	4,649.31	1/2	4,828.43	1/2	5,006.73	1/2	5,099.49
5/8	3,578.30	5/8	3,757.42	5/8	3,936.54	5/8	4,115.66	5/8	4,294.79	5/8	4,473.92	5/8	4,653.04	5/8	4,832.16	5/8	5,010.25	5/8	5,099.81
3/4	3,582.04	3/4	3,761.15	3/4	3,940.27	3/4	4,119.39	3/4	4,298.52	3/4	4,477.65	3/4	4,656.77	3/4	4,835.89	3/4	5,013.78	3/4	5,100.14
7/8	3,585.77	7/8	3,764.89	7/8	3,944.01	7/8	4,123.13	7/8	4,302.25	7/8	4,481.39	7/8	4,660.51	7/8	4,839.63	7/8	5,017.31	7/8	5,100.46
1	3,589.50	7	3,768.62	1	3,947.74	7	4,126.86	1	4,305.98	7	4,485.12	1	4,664.24	7	4,843.36	1	5,020.83	7	5,100.79
1/8	3,593.23	1/8	3,772.35	1/8	3,951.47	1/8	4,130.59	1/8	4,309.71	1/8	4,488.85	1/8	4,667.97	1/8	4,847.09	1/8	5,023.87	1/8	
1/4	3,596.96	1/4	3,776.08	1/4	3,955.20	1/4	4,134.32	1/4	4,313.44	1/4	4,492.58	1/4	4,671.70	1/4	4,850.82	1/4	5,026.91	1/4	
3/8	3,600.70	3/8	3,779.82	3/8	3,958.93	3/8	4,138.05	3/8	4,317.17	3/8	4,496.31	3/8	4,675.43	3/8	4,854.55	3/8	5,029.95	3/8	
1/2	3,604.43	1/2	3,783.55	1/2	3,962.67	1/2	4,141.79	1/2	4,320.90	1/2	4,500.04	1/2	4,679.17	1/2	4,858.29	1/2	5,032.99	1/2	
5/8	3,608.16	5/8	3,787.28	5/8	3,966.40	5/8	4,145.52	5/8	4,324.64	5/8	4,503.76	5/8	4,682.90	5/8	4,862.02	5/8	5,036.03	5/8	
3/4	3,611.89	3/4	3,791.01	3/4	3,970.13	3/4	4,149.25	3/4	4,328.37	3/4	4,507.49	3/4	4,686.63	3/4	4,865.75	3/4	5,039.07	3/4	
7/8	3,615.63	7/8	3,794.74	7/8	3,973.86	7/8	4,152.98	7/8	4,332.10	7/8	4,511.22	7/8	4,690.36	7/8	4,869.48	7/8	5,042.10	7/8	
2	3,619.36	8	3,798.48	2	3,977.60	8	4,156.71	2	4,335.83	8	4,514.95	2	4,694.10	8	4,873.21	2	5,045.14	8	
1/8	3,623.09	1/8	3,802.21	1/8	3,981.33	1/8	4,160.45	1/8	4,339.57	1/8	4,518.68	1/8	4,697.83	1/8	4,876.95	1/8	5,047.63	1/8	
1/4	3,626.82	1/4	3,805.94	1/4	3,985.06	1/4	4,164.18	1/4	4,343.30	1/4	4,522.42	1/4	4,701.56	1/4	4,880.68	1/4	5,050.12	1/4	
3/8	3,630.54	3/8	3,809.67	3/8	3,988.79	3/8	4,167.91	3/8	4,347.03	3/8	4,526.15	3/8	4,705.29	3/8	4,884.41	3/8	5,052.61	3/8	
1/2	3,634.27	1/2	3,813.40	1/2	3,992.52	1/2	4,171.64	1/2	4,350.76	1/2	4,529.88	1/2	4,709.02	1/2	4,888.14	1/2	5,055.10	1/2	
5/8	3,638.00	5/8	3,817.14	5/8	3,996.26	5/8	4,175.38	5/8	4,354.49	5/8	4,533.61	5/8	4,712.76	5/8	4,891.88	5/8	5,057.58	5/8	
3/4	3,641.73	3/4	3,820.87	3/4	3,999.99	3/4	4,179.11	3/4	4,358.23	3/4	4,537.35	3/4	4,716.49	3/4	4,895.61	3/4	5,060.07	3/4	
7/8	3,645.46	7/8	3,824.60	7/8	4,003.72	7/8	4,182.84	7/8	4,361.96	7/8	4,541.08	7/8	4,720.22	7/8	4,899.34	7/8	5,062.56	7/8	
3	3,649.19	9	3,828.33	3	4,007.45	9	4,186.57	3	4,365.69	9	4,544.81	3	4,723.95	9	4,903.07	3	5,065.05	9	
1/8	3,652.92	1/8	3,832.06	1/8	4,011.18	1/8	4,190.30	1/8	4,369.42	1/8	4,548.54	1/8	4,727.68	1/8	4,906.80	1/8	5,066.98	1/8	
1/4	3,656.65	1/4	3,835.79	1/4	4,014.92	1/4	4,194.04	1/4	4,373.15	1/4	4,552.27	1/4	4,731.41	1/4	4,910.54	1/4	5,068.92	1/4	
3/8	3,660.39	3/8	3,839.52	3/8	4,018.65	3/8	4,197.77	3/8	4,376.89	3/8	4,556.01	3/8	4,735.14	3/8	4,914.27	3/8	5,070.85	3/8	
1/2	3,664.12	1/2	3,843.25	1/2	4,022.38	1/2	4,201.50	1/2	4,380.62	1/2	4,559.74	1/2	4,738.87	1/2	4,918.00	1/2	5,072.79	1/2	
5/8	3,667.85	5/8	3,846.98	5/8	4,026.11	5/8	4,205.23	5/8	4,384.35	5/8	4,563.47	5/8	4,742.60	5/8	4,921.73	5/8	5,074.72	5/8	
3/4	3,671.58	3/4	3,850.71	3/4	4,029.85	3/4	4,208.96	3/4	4,388.08	3/4	4,567.20	3/4	4,746.33	3/4	4,925.46	3/4	5,076.65	3/4	
7/8	3,675.32	7/8	3,854.44	7/8	4,033.58	7/8	4,212.70	7/8	4,391.82	7/8	4,570.93	7/8	4,750.06	7/8	4,929.20	7/8	5,078.59	7/8	
4	3,679.05	10	3,858.17	4	4,037.31	10	4,216.43	4	4,395.55	10	4,574.67	4	4,753.79	10	4,932.93	4	5,080.52	10	
1/8	3,682.78	1/8	3,861.90	1/8	4,041.04	1/8	4,220.16	1/8	4,399.28	1/8	4,578.40	1/8	4,757.52	1/8	4,936.66	1/8	5,081.90	1/8	
1/4	3,686.51	1/4	3,865.63	1/4	4,044.77	1/4	4,223.89	1/4	4,403.01	1/4	4,582.13	1/4	4,761.25	1/4	4,940.39	1/4	5,083.29	1/4	
3/8	3,690.24	3/8	3,869.36	3/8	4,048.51	3/8	4,227.63	3/8	4,406.74	3/8	4,585.86	3/8	4,764.98	3/8	4,944.12	3/8	5,084.67	3/8	
1/2	3,693.98	1/2	3,873.10	1/2	4,052.24	1/2	4,231.36	1/2	4,410.48	1/2	4,589.60	1/2	4,768.71	1/2	4,947.85	1/2	5,086.05	1/2	
5/8	3,697.71	5/8	3,876.83	5/8	4,055.97	5/8	4,235.09	5/8	4,414.21	5/8	4,593.33	5/8	4,772.45	5/8	4,951.57	5/8	5,087.43	5/8	
3/4	3,701.44	3/4	3,880.56	3/4	4,059.70	3/4	4,238.82	3/4	4,417.94	3/4	4,597.06	3/4	4,776.18	3/4	4,955.30	3/4	5,088.81	3/4	
7/8	3,705.17	7/8	3,884.29	7/8	4,063.43	7/8	4,242.55	7/8	4,421.67	7/8	4,600.79	7/8	4,779.91	7/8	4,959.03	7/8	5,090.19	7/8	
5	3,708.90	11	3,888.02	5	4,067.17	11	4,246.29	5	4,425.40	11	4,604.52	5	4,783.64	11	4,962.76	5	5,091.57	11	
1/8	3,712.64	1/8	3,891.76	1/8	4,070.90	1/8	4,250.02	1/8	4,429.14	1/8	4,608.26	1/8	4,787.38	1/8	4,966.49	1/8	5,092.40	1/8	
1/4	3,716.37	1/4	3,895.49	1/4	4,074.63	1/4	4,253.75	1/4	4,432.87	1/4	4,611.99	1/4	4,791.11	1/4	4,970.23	1/4	5,093.23	1/4	
3/8	3,720.10	3/8	3,899.22	3/8	4,078.35	3/8	4,257.48	3/8	4,436.60	3/8	4,615.72	3/8	4,794.84	3/8	4,973.96	3/8	5,094.05	3/8	
1/2	3,723.83	1/2	3,902.95	1/2	4,082.08	1/2	4,261.21	1/2	4,440.33	1/2	4,619.45	1/2	4,798.57	1/2	4,977.69	1/2	5,094.88	1/2	
5/8	3,727.57	5/8	3,906.68	5/8	4,085.81	5/8	4,264.95	5/8	4,444.07	5/8	4,623.18	5/8	4,802.30	5/8	4,981.42	5/8	5,095.71	5/8	
3/4	3,731.30	3/4	3,910.42	3/4	4,089.54	3/4	4,268.68	3/4	4,447.80	3/4	4,626.92	3/4	4,806.04	3/4	4,985.15	3/4	5,096.54	3/4	
7/8	3,735.03	7/8	3,914.15	7/8	4,093.27	7/8	4,272.41	7/8	4,451.53	7/8	4,630.65	7/8	4,809.77	7/8	4,988.89	7/8	5,097.36	7/8	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/12/2007 INS
REPRINTED: 12/02/2021 CL

PRECISION MEASUREMENT
& ANALYSIS, INC.

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2021

P.O. Box 2092
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<http://www.pmacorp.net>



BARGE "HFL 401"

1 STBD

INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/2"

IN	0 FT.	IN	0 FT.	IN	1 FT.	IN	1 FT.	IN	2 FT.	IN	2 FT.	IN	3 FT.	IN	3 FT.	IN	4 FT.	IN	4 FT.
0	21.50	6	173.17	0	339.50	6	514.55	0	693.67	6	872.79	0	1,051.90	6	1,231.02	0	1,410.17	6	1,589.29
1/8	24.03	1/8	176.56	1/8	343.08	1/8	518.28	1/8	697.40	1/8	876.52	1/8	1,055.64	1/8	1,234.76	1/8	1,413.90	1/8	1,593.02
1/4	26.55	1/4	179.96	1/4	346.66	1/4	522.01	1/4	701.13	1/4	880.25	1/4	1,059.37	1/4	1,238.49	1/4	1,417.63	1/4	1,596.75
3/8	29.08	3/8	183.35	3/8	350.24	3/8	525.74	3/8	704.86	3/8	883.98	3/8	1,063.10	3/8	1,242.22	3/8	1,421.35	3/8	1,600.48
1/2	31.61	1/2	186.75	1/2	353.82	1/2	529.48	1/2	708.60	1/2	887.71	1/2	1,066.83	1/2	1,245.95	1/2	1,425.08	1/2	1,604.21
5/8	34.13	5/8	190.15	5/8	357.40	5/8	533.21	5/8	712.33	5/8	891.45	5/8	1,070.57	5/8	1,249.68	5/8	1,428.81	5/8	1,607.95
3/4	36.66	3/4	193.54	3/4	360.98	3/4	536.94	3/4	716.06	3/4	895.18	3/4	1,074.30	3/4	1,253.42	3/4	1,432.54	3/4	1,611.68
7/8	39.19	7/8	196.94	7/8	364.56	7/8	540.67	7/8	719.79	7/8	898.91	7/8	1,078.03	7/8	1,257.15	7/8	1,436.27	7/8	1,615.41
1	41.71	7	200.33	1	368.14	7	544.40	1	723.52	7	902.64	1	1,081.76	7	1,260.88	1	1,440.00	7	1,619.14
1/8	44.89	1/8	203.75	1/8	371.74	1/8	548.13	1/8	727.26	1/8	906.38	1/8	1,085.49	1/8	1,264.61	1/8	1,443.73	1/8	1,622.88
1/4	48.07	1/4	207.16	1/4	375.33	1/4	551.86	1/4	730.99	1/4	910.11	1/4	1,089.23	1/4	1,268.35	1/4	1,447.46	1/4	1,626.61
3/8	51.25	3/8	210.57	3/8	378.92	3/8	555.59	3/8	734.72	3/8	913.84	3/8	1,092.96	3/8	1,272.08	3/8	1,451.20	3/8	1,630.34
1/2	54.43	1/2	213.99	1/2	382.51	1/2	559.32	1/2	738.45	1/2	917.57	1/2	1,096.69	1/2	1,275.81	1/2	1,454.93	1/2	1,634.07
5/8	57.61	5/8	217.40	5/8	386.10	5/8	563.05	5/8	742.18	5/8	921.30	5/8	1,100.42	5/8	1,279.54	5/8	1,458.66	5/8	1,637.80
3/4	60.79	3/4	220.82	3/4	389.70	3/4	566.78	3/4	745.92	3/4	925.04	3/4	1,104.15	3/4	1,283.27	3/4	1,462.39	3/4	1,641.54
7/8	63.96	7/8	224.23	7/8	393.29	7/8	570.51	7/8	749.65	7/8	928.77	7/8	1,107.89	7/8	1,287.01	7/8	1,466.13	7/8	1,645.27
2	67.14	8	227.64	2	396.88	8	574.24	2	753.38	8	932.50	2	1,111.62	8	1,290.74	2	1,469.86	8	1,649.00
1/8	70.42	1/8	231.10	1/8	400.52	1/8	577.97	1/8	757.11	1/8	936.23	1/8	1,115.35	1/8	1,294.47	1/8	1,473.59	1/8	1,652.73
1/4	73.69	1/4	234.55	1/4	404.17	1/4	581.70	1/4	760.84	1/4	939.96	1/4	1,119.08	1/4	1,298.20	1/4	1,477.32	1/4	1,656.46
3/8	76.96	3/8	238.01	3/8	407.81	3/8	585.43	3/8	764.57	3/8	943.70	3/8	1,122.82	3/8	1,301.93	3/8	1,481.05	3/8	1,660.19
1/2	80.24	1/2	241.46	1/2	411.45	1/2	589.17	1/2	768.30	1/2	947.43	1/2	1,126.55	1/2	1,305.67	1/2	1,484.79	1/2	1,663.92
5/8	83.51	5/8	244.92	5/8	415.10	5/8	592.90	5/8	772.03	5/8	951.16	5/8	1,130.28	5/8	1,309.40	5/8	1,488.52	5/8	1,667.65
3/4	86.79	3/4	248.38	3/4	418.74	3/4	596.63	3/4	775.76	3/4	954.89	3/4	1,134.01	3/4	1,313.13	3/4	1,492.25	3/4	1,671.38
7/8	90.06	7/8	251.83	7/8	422.38	7/8	600.36	7/8	779.49	7/8	958.63	7/8	1,137.74	7/8	1,316.86	7/8	1,495.98	7/8	1,675.10
3	93.33	9	255.29	3	426.02	9	604.10	3	783.21	9	962.36	3	1,141.48	9	1,320.60	3	1,499.71	9	1,678.83
1/8	96.63	1/8	258.76	1/8	429.68	1/8	607.83	1/8	786.95	1/8	966.09	1/8	1,145.21	1/8	1,324.33	1/8	1,503.45	1/8	1,682.57
1/4	99.92	1/4	262.23	1/4	433.33	1/4	611.56	1/4	790.68	1/4	969.82	1/4	1,148.94	1/4	1,328.06	1/4	1,507.18	1/4	1,686.30
3/8	103.21	3/8	265.71	3/8	436.99	3/8	615.29	3/8	794.41	3/8	973.55	3/8	1,152.67	3/8	1,331.79	3/8	1,510.91	3/8	1,690.03
1/2	106.50	1/2	269.18	1/2	440.64	1/2	619.02	1/2	798.14	1/2	977.29	1/2	1,156.40	1/2	1,335.52	1/2	1,514.64	1/2	1,693.76
5/8	109.79	5/8	272.65	5/8	444.30	5/8	622.76	5/8	801.88	5/8	981.02	5/8	1,160.14	5/8	1,339.26	5/8	1,518.38	5/8	1,697.49
3/4	113.08	3/4	276.13	3/4	447.95	3/4	626.49	3/4	805.61	3/4	984.75	3/4	1,163.87	3/4	1,342.99	3/4	1,522.11	3/4	1,701.23
7/8	116.37	7/8	279.60	7/8	451.61	7/8	630.22	7/8	809.34	7/8	988.48	7/8	1,167.60	7/8	1,346.72	7/8	1,525.84	7/8	1,704.96
4	119.67	10	283.07	4	455.26	10	633.95	4	813.07	10	992.21	4	1,171.33	10	1,350.45	4	1,529.57	10	1,708.69
1/8	123.00	1/8	286.59	1/8	458.96	1/8	637.68	1/8	816.80	1/8	995.94	1/8	1,175.07	1/8	1,354.18	1/8	1,533.30	1/8	1,712.42
1/4	126.34	1/4	290.11	1/4	462.66	1/4	641.42	1/4	820.54	1/4	999.67	1/4	1,178.80	1/4	1,357.92	1/4	1,537.04	1/4	1,716.15
3/8	129.68	3/8	293.63	3/8	466.36	3/8	645.15	3/8	824.27	3/8	1,003.40	3/8	1,182.53	3/8	1,361.65	3/8	1,540.77	3/8	1,719.89
1/2	133.01	1/2	297.15	1/2	470.06	1/2	648.88	1/2	828.00	1/2	1,007.13	1/2	1,186.26	1/2	1,365.38	1/2	1,544.50	1/2	1,723.62
5/8	136.35	5/8	300.68	5/8	473.76	5/8	652.61	5/8	831.73	5/8	1,010.86	5/8	1,189.99	5/8	1,369.11	5/8	1,548.23	5/8	1,727.35
3/4	139.68	3/4	304.20	3/4	477.46	3/4	656.35	3/4	835.46	3/4	1,014.59	3/4	1,193.73	3/4	1,372.85	3/4	1,551.96	3/4	1,731.08
7/8	143.02	7/8	307.72	7/8	481.16	7/8	660.08	7/8	839.20	7/8	1,018.32	7/8	1,197.46	7/8	1,376.58	7/8	1,555.70	7/8	1,734.82
5	146.36	11	311.24	5	484.86	11	663.81	5	842.93	11	1,022.05	5	1,201.19	11	1,380.31	5	1,559.43	11	1,738.55
1/8	149.71	1/8	314.77	1/8	488.57	1/8	667.54	1/8	846.66	1/8	1,025.78	1/8	1,204.92	1/8	1,384.04	1/8	1,563.16	1/8	1,742.28
1/4	153.06	1/4	318.30	1/4	492.28	1/4	671.27	1/4	850.39	1/4	1,029.51	1/4	1,208.65	1/4	1,387.77	1/4	1,566.89	1/4	1,746.01
3/8	156.41	3/8	321.84	3/8	495.99	3/8	675.01	3/8	854.13	3/8	1,033.24	3/8	1,212.38	3/8	1,391.51	3/8	1,570.63	3/8	1,749.74
1/2	159.76	1/2	325.37	1/2	499.70	1/2	678.74	1/2	857.86	1/2	1,036.98	1/2	1,216.11	1/2	1,395.24	1/2	1,574.36	1/2	1,753.48
5/8	163.11	5/8	328.90	5/8	503.41	5/8	682.47	5/8	861.59	5/8	1,040.71	5/8	1,219.84	5/8	1,398.97	5/8	1,578.09	5/8	1,757.21
3/4	166.46	3/4	332.43	3/4	507.13	3/4	686.20	3/4	865.32	3/4	1,044.44	3/4	1,223.57	3/4	1,402.70	3/4	1,581.82	3/4	1,760.94
7/8	169.82	7/8	335.97	7/8	510.84	7/8	689.93	7/8	869.05	7/8	1,048.17	7/8	1,227.29	7/8	1,406.43	7/8	1,585.55	7/8	1,764.67

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 AT 2" DIAMETER BALL VALVE.

GAUGE POINT: (2" BALL VALVE) LOCATED NEAR CENTER OF TANK

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 401"

1 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/2"

IN	5 FT.	IN	5 FT.	IN	6 FT.	IN	6 FT.	IN	7 FT.	IN	7 FT.	IN	8 FT.	IN	8 FT.	IN	9 FT.	IN	9 FT.
0	1,768.40	6	1,947.52	0	2,126.64	6	2,305.79	0	2,484.90	6	2,664.02	0	2,843.14	6	3,022.26	0	3,201.38	6	3,380.52
1/8	1,772.14	1/8	1,951.26	1/8	2,130.38	1/8	2,309.51	1/8	2,488.64	1/8	2,667.76	1/8	2,846.88	1/8	3,025.99	1/8	3,205.11	1/8	3,384.26
1/4	1,775.87	1/4	1,954.99	1/4	2,134.11	1/4	2,313.24	1/4	2,492.37	1/4	2,671.49	1/4	2,850.61	1/4	3,029.73	1/4	3,208.85	1/4	3,387.99
3/8	1,779.60	3/8	1,958.72	3/8	2,137.84	3/8	2,316.97	3/8	2,496.10	3/8	2,675.22	3/8	2,854.34	3/8	3,033.46	3/8	3,212.58	3/8	3,391.72
1/2	1,783.33	1/2	1,962.45	1/2	2,141.57	1/2	2,320.70	1/2	2,499.83	1/2	2,678.95	1/2	2,858.07	1/2	3,037.19	1/2	3,216.31	1/2	3,395.45
5/8	1,787.07	5/8	1,966.18	5/8	2,145.30	5/8	2,324.43	5/8	2,503.57	5/8	2,682.68	5/8	2,861.80	5/8	3,040.92	5/8	3,220.04	5/8	3,399.18
3/4	1,790.80	3/4	1,969.92	3/4	2,149.04	3/4	2,328.16	3/4	2,507.30	3/4	2,686.42	3/4	2,865.54	3/4	3,044.65	3/4	3,223.77	3/4	3,402.92
7/8	1,794.53	7/8	1,973.65	7/8	2,152.77	7/8	2,331.89	7/8	2,511.03	7/8	2,690.15	7/8	2,869.27	7/8	3,048.39	7/8	3,227.51	7/8	3,406.65
1	1,798.26	7	1,977.38	1	2,156.50	7	2,335.62	1	2,514.76	7	2,693.88	1	2,873.00	7	3,052.12	1	3,231.24	7	3,410.38
1/8	1,801.99	1/8	1,981.11	1/8	2,160.23	1/8	2,339.35	1/8	2,518.49	1/8	2,697.61	1/8	2,876.73	1/8	3,055.85	1/8	3,234.97	1/8	3,414.11
1/4	1,805.73	1/4	1,984.85	1/4	2,163.96	1/4	2,343.08	1/4	2,522.22	1/4	2,701.35	1/4	2,880.46	1/4	3,059.58	1/4	3,238.70	1/4	3,417.84
3/8	1,809.46	3/8	1,988.58	3/8	2,167.70	3/8	2,346.82	3/8	2,525.95	3/8	2,705.08	3/8	2,884.20	3/8	3,063.32	3/8	3,242.43	3/8	3,421.57
1/2	1,813.19	1/2	1,992.31	1/2	2,171.43	1/2	2,350.55	1/2	2,529.68	1/2	2,708.81	1/2	2,887.93	1/2	3,067.05	1/2	3,246.17	1/2	3,425.30
5/8	1,816.92	5/8	1,996.04	5/8	2,175.16	5/8	2,354.28	5/8	2,533.41	5/8	2,712.54	5/8	2,891.66	5/8	3,070.78	5/8	3,249.90	5/8	3,429.03
3/4	1,820.65	3/4	1,999.77	3/4	2,178.89	3/4	2,358.01	3/4	2,537.14	3/4	2,716.27	3/4	2,895.39	3/4	3,074.51	3/4	3,253.63	3/4	3,432.76
7/8	1,824.39	7/8	2,003.51	7/8	2,182.63	7/8	2,361.74	7/8	2,540.87	7/8	2,720.01	7/8	2,899.13	7/8	3,078.24	7/8	3,257.36	7/8	3,436.49
2	1,828.12	8	2,007.24	2	2,186.36	8	2,365.48	2	2,544.60	8	2,723.74	2	2,902.86	8	3,081.98	2	3,261.10	8	3,440.21
1/8	1,831.85	1/8	2,010.97	1/8	2,190.09	1/8	2,369.21	1/8	2,548.33	1/8	2,727.47	1/8	2,906.59	1/8	3,085.71	1/8	3,264.83	1/8	3,443.95
1/4	1,835.58	1/4	2,014.70	1/4	2,193.82	1/4	2,372.94	1/4	2,552.06	1/4	2,731.20	1/4	2,910.32	1/4	3,089.44	1/4	3,268.56	1/4	3,447.68
3/8	1,839.32	3/8	2,018.43	3/8	2,197.55	3/8	2,376.67	3/8	2,555.79	3/8	2,734.93	3/8	2,914.05	3/8	3,093.17	3/8	3,272.29	3/8	3,451.41
1/2	1,843.05	1/2	2,022.17	1/2	2,201.29	1/2	2,380.40	1/2	2,559.52	1/2	2,738.67	1/2	2,917.79	1/2	3,096.90	1/2	3,276.02	1/2	3,455.14
5/8	1,846.78	5/8	2,025.90	5/8	2,205.02	5/8	2,384.14	5/8	2,563.26	5/8	2,742.40	5/8	2,921.52	5/8	3,100.64	5/8	3,279.76	5/8	3,458.88
3/4	1,850.51	3/4	2,029.63	3/4	2,208.75	3/4	2,387.87	3/4	2,566.99	3/4	2,746.13	3/4	2,925.25	3/4	3,104.37	3/4	3,283.49	3/4	3,462.61
7/8	1,854.24	7/8	2,033.36	7/8	2,212.48	7/8	2,391.60	7/8	2,570.72	7/8	2,749.86	7/8	2,928.98	7/8	3,108.10	7/8	3,287.22	7/8	3,466.34
3	1,857.98	9	2,037.10	3	2,216.21	9	2,395.33	3	2,574.45	9	2,753.60	3	2,932.71	9	3,111.83	3	3,290.95	9	3,470.07
1/8	1,861.71	1/8	2,040.83	1/8	2,219.95	1/8	2,399.07	1/8	2,578.18	1/8	2,757.32	1/8	2,936.45	1/8	3,115.57	1/8	3,294.68	1/8	3,473.80
1/4	1,865.43	1/4	2,044.56	1/4	2,223.68	1/4	2,402.80	1/4	2,581.92	1/4	2,761.05	1/4	2,940.18	1/4	3,119.30	1/4	3,298.42	1/4	3,477.54
3/8	1,869.16	3/8	2,048.29	3/8	2,227.41	3/8	2,406.53	3/8	2,585.65	3/8	2,764.78	3/8	2,943.91	3/8	3,123.03	3/8	3,302.15	3/8	3,481.27
1/2	1,872.89	1/2	2,052.02	1/2	2,231.14	1/2	2,410.26	1/2	2,589.38	1/2	2,768.51	1/2	2,947.64	1/2	3,126.76	1/2	3,305.88	1/2	3,485.00
5/8	1,876.62	5/8	2,055.76	5/8	2,234.88	5/8	2,413.99	5/8	2,593.11	5/8	2,772.24	5/8	2,951.38	5/8	3,130.49	5/8	3,309.61	5/8	3,488.73
3/4	1,880.35	3/4	2,059.49	3/4	2,238.61	3/4	2,417.73	3/4	2,596.85	3/4	2,775.97	3/4	2,955.11	3/4	3,134.23	3/4	3,313.35	3/4	3,492.46
7/8	1,884.08	7/8	2,063.22	7/8	2,242.34	7/8	2,421.46	7/8	2,600.58	7/8	2,779.70	7/8	2,958.84	7/8	3,137.96	7/8	3,317.08	7/8	3,496.20
4	1,887.81	10	2,066.95	4	2,246.07	10	2,425.19	4	2,604.31	10	2,783.43	4	2,962.57	10	3,141.69	4	3,320.81	10	3,499.93
1/8	1,891.54	1/8	2,070.68	1/8	2,249.80	1/8	2,428.92	1/8	2,608.04	1/8	2,787.16	1/8	2,966.30	1/8	3,145.42	1/8	3,324.54	1/8	3,503.66
1/4	1,895.27	1/4	2,074.42	1/4	2,253.54	1/4	2,432.65	1/4	2,611.77	1/4	2,790.89	1/4	2,970.03	1/4	3,149.15	1/4	3,328.27	1/4	3,507.39
3/8	1,899.01	3/8	2,078.15	3/8	2,257.27	3/8	2,436.39	3/8	2,615.51	3/8	2,794.63	3/8	2,973.76	3/8	3,152.89	3/8	3,332.01	3/8	3,511.13
1/2	1,902.74	1/2	2,081.88	1/2	2,261.00	1/2	2,440.12	1/2	2,619.24	1/2	2,798.36	1/2	2,977.49	1/2	3,156.62	1/2	3,335.74	1/2	3,514.86
5/8	1,906.47	5/8	2,085.61	5/8	2,264.73	5/8	2,443.85	5/8	2,622.97	5/8	2,802.09	5/8	2,981.22	5/8	3,160.35	5/8	3,339.47	5/8	3,518.59
3/4	1,910.20	3/4	2,089.35	3/4	2,268.46	3/4	2,447.58	3/4	2,626.70	3/4	2,805.82	3/4	2,984.95	3/4	3,164.08	3/4	3,343.20	3/4	3,522.32
7/8	1,913.93	7/8	2,093.08	7/8	2,272.20	7/8	2,451.32	7/8	2,630.43	7/8	2,809.55	7/8	2,988.68	7/8	3,167.82	7/8	3,346.93	7/8	3,526.05
5	1,917.67	11	2,096.81	5	2,275.93	11	2,455.05	5	2,634.17	11	2,813.29	5	2,992.40	11	3,171.55	5	3,350.67	11	3,529.79
1/8	1,921.40	1/8	2,100.54	1/8	2,279.66	1/8	2,458.78	1/8	2,637.90	1/8	2,817.02	1/8	2,996.14	1/8	3,175.28	1/8	3,354.40	1/8	3,533.52
1/4	1,925.13	1/4	2,104.27	1/4	2,283.39	1/4	2,462.51	1/4	2,641.63	1/4	2,820.75	1/4	2,999.87	1/4	3,179.01	1/4	3,358.13	1/4	3,537.25
3/8	1,928.86	3/8	2,108.00	3/8	2,287.13	3/8	2,466.24	3/8	2,645.36	3/8	2,824.48	3/8	3,003.60	3/8	3,182.74	3/8	3,361.86	3/8	3,540.98
1/2	1,932.60	1/2	2,111.73	1/2	2,290.86	1/2	2,469.98	1/2	2,649.10	1/2	2,828.21	1/2	3,007.33	1/2	3,186.46	1/2	3,365.60	1/2	3,544.71
5/8	1,936.33	5/8	2,115.46	5/8	2,294.59	5/8	2,473.71	5/8	2,652.83	5/8	2,831.95	5/8	3,011.07	5/8	3,190.19	5/8	3,369.33	5/8	3,548.45
3/4	1,940.06	3/4	2,119.18	3/4	2,298.32	3/4	2,477.44	3/4	2,656.56	3/4	2,835.68	3/4	3,014.80	3/4	3,193.92	3/4	3,373.06	3/4	3,552.18
7/8	1,943.79	7/8	2,122.91	7/8	2,302.05	7/8	2,481.17	7/8	2,660.29	7/8	2,839.41	7/8	3,018.53	7/8	3,197.65	7/8	3,376.79	7/8	3,555.91

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& ANALYSIS, INC.

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BARGE "HFL 401"

1 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/2"

IN	10 FT.	IN	10 FT.	IN	11 FT.	IN	11 FT.	IN	12 FT.	IN	12 FT.	IN	13 FT.	IN	13 FT.	IN	14 FT.	IN	14 FT.
0	3,559.64	6	3,738.76	0	3,917.88	6	4,097.00	0	4,276.14	6	4,455.26	0	4,634.38	6	4,813.50	0	4,992.62	6	5,098.19
1/8	3,563.38	1/8	3,742.49	1/8	3,921.61	1/8	4,100.73	1/8	4,279.87	1/8	4,458.99	1/8	4,638.11	1/8	4,817.23	1/8	4,996.15	1/8	5,098.51
1/4	3,567.11	1/4	3,746.23	1/4	3,925.35	1/4	4,104.46	1/4	4,283.60	1/4	4,462.73	1/4	4,641.85	1/4	4,820.96	1/4	4,999.67	1/4	5,098.84
3/8	3,570.84	3/8	3,749.96	3/8	3,929.08	3/8	4,108.20	3/8	4,287.33	3/8	4,466.46	3/8	4,645.58	3/8	4,824.70	3/8	5,003.20	3/8	5,099.16
1/2	3,574.57	1/2	3,753.69	1/2	3,932.81	1/2	4,111.93	1/2	4,291.06	1/2	4,470.19	1/2	4,649.31	1/2	4,828.43	1/2	5,006.73	1/2	5,099.49
5/8	3,578.30	5/8	3,757.42	5/8	3,936.54	5/8	4,115.66	5/8	4,294.79	5/8	4,473.92	5/8	4,653.04	5/8	4,832.16	5/8	5,010.25	5/8	5,099.81
3/4	3,582.04	3/4	3,761.15	3/4	3,940.27	3/4	4,119.39	3/4	4,298.52	3/4	4,477.65	3/4	4,656.77	3/4	4,835.89	3/4	5,013.78	3/4	5,100.14
7/8	3,585.77	7/8	3,764.89	7/8	3,944.01	7/8	4,123.13	7/8	4,302.25	7/8	4,481.39	7/8	4,660.51	7/8	4,839.63	7/8	5,017.31	7/8	5,100.46
1	3,589.50	7	3,768.62	1	3,947.74	7	4,126.86	1	4,305.98	7	4,485.12	1	4,664.24	7	4,843.36	1	5,020.83	7	5,100.79
1/8	3,593.23	1/8	3,772.35	1/8	3,951.47	1/8	4,130.59	1/8	4,309.71	1/8	4,488.85	1/8	4,667.97	1/8	4,847.09	1/8	5,023.87	1/8	
1/4	3,596.96	1/4	3,776.08	1/4	3,955.20	1/4	4,134.32	1/4	4,313.44	1/4	4,492.58	1/4	4,671.70	1/4	4,850.82	1/4	5,026.91	1/4	
3/8	3,600.70	3/8	3,779.82	3/8	3,958.93	3/8	4,138.05	3/8	4,317.17	3/8	4,496.31	3/8	4,675.43	3/8	4,854.55	3/8	5,029.95	3/8	
1/2	3,604.43	1/2	3,783.55	1/2	3,962.67	1/2	4,141.79	1/2	4,320.90	1/2	4,500.04	1/2	4,679.17	1/2	4,858.29	1/2	5,032.99	1/2	
5/8	3,608.16	5/8	3,787.28	5/8	3,966.40	5/8	4,145.52	5/8	4,324.64	5/8	4,503.76	5/8	4,682.90	5/8	4,862.02	5/8	5,036.03	5/8	
3/4	3,611.89	3/4	3,791.01	3/4	3,970.13	3/4	4,149.25	3/4	4,328.37	3/4	4,507.49	3/4	4,686.63	3/4	4,865.75	3/4	5,039.07	3/4	
7/8	3,615.63	7/8	3,794.74	7/8	3,973.86	7/8	4,152.98	7/8	4,332.10	7/8	4,511.22	7/8	4,690.36	7/8	4,869.48	7/8	5,042.10	7/8	
2	3,619.36	8	3,798.48	2	3,977.60	8	4,156.71	2	4,335.83	8	4,514.95	2	4,694.10	8	4,873.21	2	5,045.14	8	
1/8	3,623.09	1/8	3,802.21	1/8	3,981.33	1/8	4,160.45	1/8	4,339.57	1/8	4,518.68	1/8	4,697.83	1/8	4,876.95	1/8	5,047.63	1/8	
1/4	3,626.82	1/4	3,805.94	1/4	3,985.06	1/4	4,164.18	1/4	4,343.30	1/4	4,522.42	1/4	4,701.56	1/4	4,880.68	1/4	5,050.12	1/4	
3/8	3,630.54	3/8	3,809.67	3/8	3,988.79	3/8	4,167.91	3/8	4,347.03	3/8	4,526.15	3/8	4,705.29	3/8	4,884.41	3/8	5,052.61	3/8	
1/2	3,634.27	1/2	3,813.40	1/2	3,992.52	1/2	4,171.64	1/2	4,350.76	1/2	4,529.88	1/2	4,709.02	1/2	4,888.14	1/2	5,055.10	1/2	
5/8	3,638.00	5/8	3,817.14	5/8	3,996.26	5/8	4,175.38	5/8	4,354.49	5/8	4,533.61	5/8	4,712.76	5/8	4,891.88	5/8	5,057.58	5/8	
3/4	3,641.73	3/4	3,820.87	3/4	3,999.99	3/4	4,179.11	3/4	4,358.23	3/4	4,537.35	3/4	4,716.49	3/4	4,895.61	3/4	5,060.07	3/4	
7/8	3,645.46	7/8	3,824.60	7/8	4,003.72	7/8	4,182.84	7/8	4,361.96	7/8	4,541.08	7/8	4,720.22	7/8	4,899.34	7/8	5,062.56	7/8	
3	3,649.19	9	3,828.33	3	4,007.45	9	4,186.57	3	4,365.69	9	4,544.81	3	4,723.95	9	4,903.07	3	5,065.05	9	
1/8	3,652.92	1/8	3,832.06	1/8	4,011.18	1/8	4,190.30	1/8	4,369.42	1/8	4,548.54	1/8	4,727.68	1/8	4,906.80	1/8	5,066.98	1/8	
1/4	3,656.65	1/4	3,835.79	1/4	4,014.92	1/4	4,194.04	1/4	4,373.15	1/4	4,552.27	1/4	4,731.41	1/4	4,910.54	1/4	5,068.92	1/4	
3/8	3,660.39	3/8	3,839.52	3/8	4,018.65	3/8	4,197.77	3/8	4,376.89	3/8	4,556.01	3/8	4,735.14	3/8	4,914.27	3/8	5,070.85	3/8	
1/2	3,664.12	1/2	3,843.25	1/2	4,022.38	1/2	4,201.50	1/2	4,380.62	1/2	4,559.74	1/2	4,738.87	1/2	4,918.00	1/2	5,072.79	1/2	
5/8	3,667.85	5/8	3,846.98	5/8	4,026.11	5/8	4,205.23	5/8	4,384.35	5/8	4,563.47	5/8	4,742.60	5/8	4,921.73	5/8	5,074.72	5/8	
3/4	3,671.58	3/4	3,850.71	3/4	4,029.85	3/4	4,208.96	3/4	4,388.08	3/4	4,567.20	3/4	4,746.33	3/4	4,925.46	3/4	5,076.65	3/4	
7/8	3,675.32	7/8	3,854.44	7/8	4,033.58	7/8	4,212.70	7/8	4,391.82	7/8	4,570.93	7/8	4,750.06	7/8	4,929.20	7/8	5,078.59	7/8	
4	3,679.05	10	3,858.17	4	4,037.31	10	4,216.43	4	4,395.55	10	4,574.67	4	4,753.79	10	4,932.93	4	5,080.52	10	
1/8	3,682.78	1/8	3,861.90	1/8	4,041.04	1/8	4,220.16	1/8	4,399.28	1/8	4,578.40	1/8	4,757.52	1/8	4,936.66	1/8	5,081.90	1/8	
1/4	3,686.51	1/4	3,865.63	1/4	4,044.77	1/4	4,223.89	1/4	4,403.01	1/4	4,582.13	1/4	4,761.25	1/4	4,940.39	1/4	5,083.29	1/4	
3/8	3,690.24	3/8	3,869.36	3/8	4,048.51	3/8	4,227.63	3/8	4,406.74	3/8	4,585.86	3/8	4,764.98	3/8	4,944.12	3/8	5,084.67	3/8	
1/2	3,693.98	1/2	3,873.10	1/2	4,052.24	1/2	4,231.36	1/2	4,410.48	1/2	4,589.60	1/2	4,768.71	1/2	4,947.85	1/2	5,086.05	1/2	
5/8	3,697.71	5/8	3,876.83	5/8	4,055.97	5/8	4,235.09	5/8	4,414.21	5/8	4,593.33	5/8	4,772.45	5/8	4,951.57	5/8	5,087.43	5/8	
3/4	3,701.44	3/4	3,880.56	3/4	4,059.70	3/4	4,238.82	3/4	4,417.94	3/4	4,597.06	3/4	4,776.18	3/4	4,955.30	3/4	5,088.81	3/4	
7/8	3,705.17	7/8	3,884.29	7/8	4,063.43	7/8	4,242.55	7/8	4,421.67	7/8	4,600.79	7/8	4,779.91	7/8	4,959.03	7/8	5,090.19	7/8	
5	3,708.90	11	3,888.02	5	4,067.17	11	4,246.29	5	4,425.40	11	4,604.52	5	4,783.64	11	4,962.76	5	5,091.57	11	
1/8	3,712.64	1/8	3,891.76	1/8	4,070.90	1/8	4,250.02	1/8	4,429.14	1/8	4,608.26	1/8	4,787.38	1/8	4,966.49	1/8	5,092.40	1/8	
1/4	3,716.37	1/4	3,895.49	1/4	4,074.63	1/4	4,253.75	1/4	4,432.87	1/4	4,611.99	1/4	4,791.11	1/4	4,970.23	1/4	5,093.23	1/4	
3/8	3,720.10	3/8	3,899.22	3/8	4,078.35	3/8	4,257.48	3/8	4,436.60	3/8	4,615.72	3/8	4,794.84	3/8	4,973.96	3/8	5,094.05	3/8	
1/2	3,723.83	1/2	3,902.95	1/2	4,082.08	1/2	4,261.21	1/2	4,440.33	1/2	4,619.45	1/2	4,798.57	1/2	4,977.69	1/2	5,094.88	1/2	
5/8	3,727.57	5/8	3,906.68	5/8	4,085.81	5/8	4,264.95	5/8	4,444.07	5/8	4,623.18	5/8	4,802.30	5/8	4,981.42	5/8	5,095.71	5/8	
3/4	3,731.30	3/4	3,910.42	3/4	4,089.54	3/4	4,268.68	3/4	4,447.80	3/4	4,626.92	3/4	4,806.04	3/4	4,985.15	3/4	5,096.54	3/4	
7/8	3,735.03	7/8	3,914.15	7/8	4,093.27	7/8	4,272.41	7/8	4,451.53	7/8	4,630.65	7/8	4,809.77	7/8	4,988.89	7/8	5,097.36	7/8	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/12/2007 INS
REPRINTED: 12/02/2021 CL

PRECISION MEASUREMENT
& ANALYSIS, INC.

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2021

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<http://www.pmacorp.net>



BARGE "HFL 401"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/2"

IN	0 FT.	IN	0 FT.	IN	1 FT.	IN	1 FT.	IN	2 FT.	IN	2 FT.	IN	3 FT.	IN	3 FT.	IN	4 FT.	IN	4 FT.
0	22.43	6	194.50	0	374.05	6	553.60	0	733.14	6	912.69	0	1,092.24	6	1,271.79	0	1,451.33	6	1,630.88
1/8	25.30	1/8	198.24	1/8	377.79	1/8	557.34	1/8	736.88	1/8	916.43	1/8	1,095.98	1/8	1,275.53	1/8	1,455.07	1/8	1,634.62
1/4	28.17	1/4	201.98	1/4	381.53	1/4	561.08	1/4	740.62	1/4	920.17	1/4	1,099.72	1/4	1,279.27	1/4	1,458.82	1/4	1,638.36
3/8	31.04	3/8	205.72	3/8	385.27	3/8	564.82	3/8	744.37	3/8	923.91	3/8	1,103.46	3/8	1,283.01	3/8	1,462.56	3/8	1,642.10
1/2	33.92	1/2	209.46	1/2	389.01	1/2	568.56	1/2	748.11	1/2	927.65	1/2	1,107.20	1/2	1,286.75	1/2	1,466.30	1/2	1,645.85
5/8	36.79	5/8	213.21	5/8	392.75	5/8	572.30	5/8	751.85	5/8	931.40	5/8	1,110.94	5/8	1,290.49	5/8	1,470.04	5/8	1,649.59
3/4	39.66	3/4	216.95	3/4	396.49	3/4	576.04	3/4	755.59	3/4	935.14	3/4	1,114.68	3/4	1,294.23	3/4	1,473.78	3/4	1,653.33
7/8	42.53	7/8	220.69	7/8	400.24	7/8	579.78	7/8	759.33	7/8	938.88	7/8	1,118.43	7/8	1,297.97	7/8	1,477.52	7/8	1,657.07
1	45.40	7	224.43	1	403.98	7	583.52	1	763.07	7	942.62	1	1,122.17	7	1,301.71	1	1,481.26	7	1,660.81
1/8	49.08	1/8	228.17	1/8	407.71	1/8	587.26	1/8	766.81	1/8	946.36	1/8	1,125.91	1/8	1,305.46	1/8	1,485.00	1/8	1,664.55
1/4	52.75	1/4	231.90	1/4	411.45	1/4	591.01	1/4	770.55	1/4	950.10	1/4	1,129.65	1/4	1,309.20	1/4	1,488.74	1/4	1,668.29
3/8	56.42	3/8	235.64	3/8	415.19	3/8	594.75	3/8	774.29	3/8	953.84	3/8	1,133.39	3/8	1,312.94	3/8	1,492.49	3/8	1,672.03
1/2	60.10	1/2	239.38	1/2	418.93	1/2	598.49	1/2	778.04	1/2	957.58	1/2	1,137.13	1/2	1,316.68	1/2	1,496.23	1/2	1,675.77
5/8	63.77	5/8	243.12	5/8	422.67	5/8	602.23	5/8	781.78	5/8	961.32	5/8	1,140.87	5/8	1,320.42	5/8	1,499.97	5/8	1,679.51
3/4	67.44	3/4	246.86	3/4	426.40	3/4	605.97	3/4	785.52	3/4	965.07	3/4	1,144.61	3/4	1,324.16	3/4	1,503.71	3/4	1,683.26
7/8	71.11	7/8	250.60	7/8	430.14	7/8	609.71	7/8	789.26	7/8	968.81	7/8	1,148.35	7/8	1,327.90	7/8	1,507.45	7/8	1,687.00
2	74.79	8	254.33	2	433.88	8	613.45	2	793.00	8	972.55	2	1,152.10	8	1,331.64	2	1,511.19	8	1,690.74
1/8	78.53	1/8	258.07	1/8	437.62	1/8	617.19	1/8	796.74	1/8	976.29	1/8	1,155.84	1/8	1,335.38	1/8	1,514.93	1/8	1,694.48
1/4	82.27	1/4	261.82	1/4	441.36	1/4	620.93	1/4	800.48	1/4	980.03	1/4	1,159.58	1/4	1,339.13	1/4	1,518.67	1/4	1,698.22
3/8	86.01	3/8	265.56	3/8	445.10	3/8	624.67	3/8	804.21	3/8	983.77	3/8	1,163.32	3/8	1,342.87	3/8	1,522.41	3/8	1,701.96
1/2	89.75	1/2	269.30	1/2	448.85	1/2	628.40	1/2	807.95	1/2	987.51	1/2	1,167.06	1/2	1,346.61	1/2	1,526.15	1/2	1,705.70
5/8	93.49	5/8	273.04	5/8	452.59	5/8	632.14	5/8	811.69	5/8	991.25	5/8	1,170.80	5/8	1,350.35	5/8	1,529.90	5/8	1,709.44
3/4	97.23	3/4	276.78	3/4	456.33	3/4	635.88	3/4	815.43	3/4	994.99	3/4	1,174.54	3/4	1,354.09	3/4	1,533.64	3/4	1,713.18
7/8	100.97	7/8	280.52	7/8	460.07	7/8	639.62	7/8	819.17	7/8	998.74	7/8	1,178.28	7/8	1,357.83	7/8	1,537.38	7/8	1,716.93
3	104.71	9	284.26	3	463.81	9	643.36	3	822.90	9	1,002.48	3	1,182.02	9	1,361.57	3	1,541.12	9	1,720.67
1/8	108.46	1/8	288.00	1/8	467.55	1/8	647.10	1/8	826.65	1/8	1,006.21	1/8	1,185.76	1/8	1,365.31	1/8	1,544.86	1/8	1,724.41
1/4	112.20	1/4	291.74	1/4	471.29	1/4	650.84	1/4	830.39	1/4	1,009.95	1/4	1,189.51	1/4	1,369.05	1/4	1,548.60	1/4	1,728.15
3/8	115.94	3/8	295.49	3/8	475.03	3/8	654.58	3/8	834.13	3/8	1,013.69	3/8	1,193.25	3/8	1,372.79	3/8	1,552.34	3/8	1,731.89
1/2	119.68	1/2	299.23	1/2	478.77	1/2	658.32	1/2	837.87	1/2	1,017.43	1/2	1,196.99	1/2	1,376.54	1/2	1,556.08	1/2	1,735.63
5/8	123.42	5/8	302.97	5/8	482.51	5/8	662.06	5/8	841.61	5/8	1,021.17	5/8	1,200.73	5/8	1,380.28	5/8	1,559.82	5/8	1,739.37
3/4	127.16	3/4	306.71	3/4	486.26	3/4	665.80	3/4	845.35	3/4	1,024.90	3/4	1,204.47	3/4	1,384.02	3/4	1,563.57	3/4	1,743.11
7/8	130.90	7/8	310.45	7/8	490.00	7/8	669.54	7/8	849.09	7/8	1,028.64	7/8	1,208.21	7/8	1,387.76	7/8	1,567.31	7/8	1,746.85
4	134.64	10	314.19	4	493.74	10	673.29	4	852.83	10	1,032.38	4	1,211.95	10	1,391.50	4	1,571.05	10	1,750.60
1/8	138.38	1/8	317.93	1/8	497.48	1/8	677.03	1/8	856.57	1/8	1,036.12	1/8	1,215.69	1/8	1,395.24	1/8	1,574.79	1/8	1,754.34
1/4	142.12	1/4	321.67	1/4	501.22	1/4	680.77	1/4	860.32	1/4	1,039.86	1/4	1,219.43	1/4	1,398.98	1/4	1,578.53	1/4	1,758.08
3/8	145.87	3/8	325.41	3/8	504.96	3/8	684.51	3/8	864.06	3/8	1,043.60	3/8	1,223.17	3/8	1,402.71	3/8	1,582.27	3/8	1,761.82
1/2	149.61	1/2	329.15	1/2	508.70	1/2	688.25	1/2	867.80	1/2	1,047.35	1/2	1,226.90	1/2	1,406.45	1/2	1,586.01	1/2	1,765.56
5/8	153.35	5/8	332.90	5/8	512.44	5/8	691.99	5/8	871.54	5/8	1,051.09	5/8	1,230.64	5/8	1,410.19	5/8	1,589.75	5/8	1,769.30
3/4	157.09	3/4	336.64	3/4	516.18	3/4	695.73	3/4	875.28	3/4	1,054.83	3/4	1,234.38	3/4	1,413.93	3/4	1,593.49	3/4	1,773.04
7/8	160.83	7/8	340.38	7/8	519.93	7/8	699.47	7/8	879.02	7/8	1,058.57	7/8	1,238.12	7/8	1,417.67	7/8	1,597.24	7/8	1,776.78
5	164.57	11	344.12	5	523.67	11	703.21	5	882.76	11	1,062.31	5	1,241.86	11	1,421.40	5	1,600.98	11	1,780.52
1/8	168.31	1/8	347.86	1/8	527.41	1/8	706.96	1/8	886.50	1/8	1,066.05	1/8	1,245.60	1/8	1,425.15	1/8	1,604.71	1/8	1,784.26
1/4	172.05	1/4	351.60	1/4	531.15	1/4	710.70	1/4	890.24	1/4	1,069.79	1/4	1,249.34	1/4	1,428.89	1/4	1,608.45	1/4	1,788.00
3/8	175.79	3/8	355.34	3/8	534.89	3/8	714.44	3/8	893.99	3/8	1,073.53	3/8	1,253.08	3/8	1,432.63	3/8	1,612.19	3/8	1,791.74
1/2	179.54	1/2	359.08	1/2	538.63	1/2	718.18	1/2	897.73	1/2	1,077.27	1/2	1,256.82	1/2	1,436.37	1/2	1,615.93	1/2	1,795.48
5/8	183.28	5/8	362.82	5/8	542.37	5/8	721.92	5/8	901.47	5/8	1,081.01	5/8	1,260.56	5/8	1,440.11	5/8	1,619.67	5/8	1,799.21
3/4	187.02	3/4	366.57	3/4	546.11	3/4	725.66	3/4	905.21	3/4	1,084.76	3/4	1,264.30	3/4	1,443.85	3/4	1,623.40	3/4	1,802.95
7/8	190.76	7/8	370.31	7/8	549.85	7/8	729.40	7/8	908.95	7/8	1,088.50	7/8	1,268.04	7/8	1,447.59	7/8	1,627.14	7/8	1,806.69

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 INNAGE GAUGES TAKEN AT 2" DIAMETER BALL VALVE.

GAUGE POINT: (2" BALL VALVE) LOCATED NEAR CENTER OF TANK

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT

& ANALYSIS, INC.

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Pearland, Texas 77588

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BARGE "HFL 401"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/2"

IN	5 FT.	IN	5 FT.	IN	6 FT.	IN	6 FT.	IN	7 FT.	IN	7 FT.	IN	8 FT.	IN	8 FT.	IN	9 FT.	IN	9 FT.
0	1,810.43	6	1,990.00	0	2,169.55	6	2,349.10	0	2,528.64	6	2,708.19	0	2,887.74	6	3,067.29	0	3,246.83	6	3,426.38
1/8	1,814.17	1/8	1,993.74	1/8	2,173.29	1/8	2,352.84	1/8	2,532.38	1/8	2,711.93	1/8	2,891.48	1/8	3,071.03	1/8	3,250.57	1/8	3,430.12
1/4	1,817.91	1/4	1,997.48	1/4	2,177.02	1/4	2,356.58	1/4	2,536.13	1/4	2,715.67	1/4	2,895.22	1/4	3,074.77	1/4	3,254.32	1/4	3,433.86
3/8	1,821.65	3/8	2,001.21	3/8	2,180.76	3/8	2,360.32	3/8	2,539.87	3/8	2,719.41	3/8	2,898.96	3/8	3,078.51	3/8	3,258.06	3/8	3,437.60
1/2	1,825.39	1/2	2,004.95	1/2	2,184.50	1/2	2,364.06	1/2	2,543.61	1/2	2,723.15	1/2	2,902.70	1/2	3,082.25	1/2	3,261.80	1/2	3,441.35
5/8	1,829.13	5/8	2,008.69	5/8	2,188.24	5/8	2,367.80	5/8	2,547.35	5/8	2,726.90	5/8	2,906.44	5/8	3,085.99	5/8	3,265.54	5/8	3,445.09
3/4	1,832.88	3/4	2,012.43	3/4	2,191.98	3/4	2,371.54	3/4	2,551.09	3/4	2,730.64	3/4	2,910.18	3/4	3,089.73	3/4	3,269.28	3/4	3,448.83
7/8	1,836.62	7/8	2,016.17	7/8	2,195.71	7/8	2,375.28	7/8	2,554.83	7/8	2,734.38	7/8	2,913.93	7/8	3,093.47	7/8	3,273.02	7/8	3,452.57
1	1,840.36	7	2,019.90	1	2,199.45	7	2,379.02	1	2,558.57	7	2,738.12	1	2,917.67	7	3,097.21	1	3,276.76	7	3,456.31
1/8	1,844.10	1/8	2,023.65	1/8	2,203.19	1/8	2,382.76	1/8	2,562.31	1/8	2,741.86	1/8	2,921.41	1/8	3,100.96	1/8	3,280.50	1/8	3,460.05
1/4	1,847.84	1/4	2,027.39	1/4	2,206.93	1/4	2,386.50	1/4	2,566.05	1/4	2,745.60	1/4	2,925.15	1/4	3,104.70	1/4	3,284.24	1/4	3,463.79
3/8	1,851.58	3/8	2,031.13	3/8	2,210.68	3/8	2,390.24	3/8	2,569.79	3/8	2,749.34	3/8	2,928.89	3/8	3,108.44	3/8	3,287.99	3/8	3,467.53
1/2	1,855.32	1/2	2,034.87	1/2	2,214.42	1/2	2,393.98	1/2	2,573.54	1/2	2,753.08	1/2	2,932.63	1/2	3,112.18	1/2	3,291.73	1/2	3,471.27
5/8	1,859.06	5/8	2,038.61	5/8	2,218.16	5/8	2,397.71	5/8	2,577.28	5/8	2,756.82	5/8	2,936.37	5/8	3,115.92	5/8	3,295.47	5/8	3,475.01
3/4	1,862.80	3/4	2,042.35	3/4	2,221.90	3/4	2,401.45	3/4	2,581.02	3/4	2,760.57	3/4	2,940.11	3/4	3,119.66	3/4	3,299.21	3/4	3,478.76
7/8	1,866.54	7/8	2,046.09	7/8	2,225.64	7/8	2,405.19	7/8	2,584.76	7/8	2,764.31	7/8	2,943.85	7/8	3,123.40	7/8	3,302.95	7/8	3,482.50
2	1,870.29	8	2,049.83	2	2,229.38	8	2,408.93	2	2,588.50	8	2,768.05	2	2,947.60	8	3,127.14	2	3,306.69	8	3,486.24
1/8	1,874.03	1/8	2,053.57	1/8	2,233.12	1/8	2,412.67	1/8	2,592.24	1/8	2,771.79	1/8	2,951.34	1/8	3,130.88	1/8	3,310.43	1/8	3,489.98
1/4	1,877.77	1/4	2,057.32	1/4	2,236.86	1/4	2,416.41	1/4	2,595.98	1/4	2,775.52	1/4	2,955.08	1/4	3,134.63	1/4	3,314.17	1/4	3,493.72
3/8	1,881.51	3/8	2,061.06	3/8	2,240.60	3/8	2,420.15	3/8	2,599.71	3/8	2,779.26	3/8	2,958.82	3/8	3,138.37	3/8	3,317.91	3/8	3,497.46
1/2	1,885.25	1/2	2,064.80	1/2	2,244.35	1/2	2,423.89	1/2	2,603.45	1/2	2,783.00	1/2	2,962.56	1/2	3,142.11	1/2	3,321.65	1/2	3,501.20
5/8	1,888.99	5/8	2,068.54	5/8	2,248.09	5/8	2,427.63	5/8	2,607.19	5/8	2,786.74	5/8	2,966.30	5/8	3,145.85	5/8	3,325.40	5/8	3,504.94
3/4	1,892.73	3/4	2,072.28	3/4	2,251.83	3/4	2,431.38	3/4	2,610.93	3/4	2,790.48	3/4	2,970.04	3/4	3,149.59	3/4	3,329.14	3/4	3,508.68
7/8	1,896.47	7/8	2,076.02	7/8	2,255.57	7/8	2,435.12	7/8	2,614.67	7/8	2,794.21	7/8	2,973.78	7/8	3,153.33	7/8	3,332.88	7/8	3,512.43
3	1,900.21	9	2,079.76	3	2,259.31	9	2,438.86	3	2,618.40	9	2,797.95	3	2,977.52	9	3,157.07	3	3,336.62	9	3,516.17
1/8	1,903.96	1/8	2,083.50	1/8	2,263.05	1/8	2,442.60	1/8	2,622.15	1/8	2,801.69	1/8	2,981.26	1/8	3,160.81	1/8	3,340.36	1/8	3,519.91
1/4	1,907.70	1/4	2,087.24	1/4	2,266.79	1/4	2,446.34	1/4	2,625.89	1/4	2,805.43	1/4	2,985.00	1/4	3,164.55	1/4	3,344.10	1/4	3,523.65
3/8	1,911.44	3/8	2,090.99	3/8	2,270.53	3/8	2,450.08	3/8	2,629.63	3/8	2,809.18	3/8	2,988.74	3/8	3,168.29	3/8	3,347.84	3/8	3,527.39
1/2	1,915.18	1/2	2,094.73	1/2	2,274.27	1/2	2,453.82	1/2	2,633.37	1/2	2,812.92	1/2	2,992.48	1/2	3,172.02	1/2	3,351.58	1/2	3,531.13
5/8	1,918.92	5/8	2,098.47	5/8	2,278.01	5/8	2,457.56	5/8	2,637.11	5/8	2,816.66	5/8	2,996.21	5/8	3,175.76	5/8	3,355.32	5/8	3,534.87
3/4	1,922.66	3/4	2,102.21	3/4	2,281.76	3/4	2,461.30	3/4	2,640.85	3/4	2,820.40	3/4	2,999.95	3/4	3,179.50	3/4	3,359.07	3/4	3,538.61
7/8	1,926.40	7/8	2,105.95	7/8	2,285.50	7/8	2,465.04	7/8	2,644.59	7/8	2,824.14	7/8	3,003.69	7/8	3,183.24	7/8	3,362.81	7/8	3,542.35
4	1,930.14	10	2,109.69	4	2,289.24	10	2,468.79	4	2,648.33	10	2,827.88	4	3,007.43	10	3,186.98	4	3,366.55	10	3,546.10
1/8	1,933.88	1/8	2,113.43	1/8	2,292.98	1/8	2,472.53	1/8	2,652.07	1/8	2,831.62	1/8	3,011.17	1/8	3,190.72	1/8	3,370.29	1/8	3,549.84
1/4	1,937.63	1/4	2,117.17	1/4	2,296.72	1/4	2,476.27	1/4	2,655.82	1/4	2,835.36	1/4	3,014.91	1/4	3,194.46	1/4	3,374.02	1/4	3,553.58
3/8	1,941.37	3/8	2,120.91	3/8	2,300.46	3/8	2,480.01	3/8	2,659.56	3/8	2,839.10	3/8	3,018.65	3/8	3,198.20	3/8	3,377.76	3/8	3,557.32
1/2	1,945.11	1/2	2,124.65	1/2	2,304.20	1/2	2,483.75	1/2	2,663.30	1/2	2,842.85	1/2	3,022.39	1/2	3,201.94	1/2	3,381.50	1/2	3,561.06
5/8	1,948.85	5/8	2,128.40	5/8	2,307.94	5/8	2,487.49	5/8	2,667.04	5/8	2,846.59	5/8	3,026.13	5/8	3,205.68	5/8	3,385.24	5/8	3,564.80
3/4	1,952.59	3/4	2,132.14	3/4	2,311.68	3/4	2,491.23	3/4	2,670.78	3/4	2,850.33	3/4	3,029.88	3/4	3,209.42	3/4	3,388.98	3/4	3,568.54
7/8	1,956.33	7/8	2,135.88	7/8	2,315.43	7/8	2,494.97	7/8	2,674.52	7/8	2,854.07	7/8	3,033.62	7/8	3,213.16	7/8	3,392.71	7/8	3,572.28
5	1,960.07	11	2,139.62	5	2,319.17	11	2,498.71	5	2,678.26	11	2,857.81	5	3,037.36	11	3,216.90	5	3,396.45	11	3,576.02
1/8	1,963.81	1/8	2,143.36	1/8	2,322.91	1/8	2,502.46	1/8	2,682.00	1/8	2,861.55	1/8	3,041.10	1/8	3,220.65	1/8	3,400.19	1/8	3,579.76
1/4	1,967.55	1/4	2,147.10	1/4	2,326.65	1/4	2,506.20	1/4	2,685.74	1/4	2,865.29	1/4	3,044.84	1/4	3,224.39	1/4	3,403.93	1/4	3,583.50
3/8	1,971.29	3/8	2,150.84	3/8	2,330.39	3/8	2,509.94	3/8	2,689.49	3/8	2,869.03	3/8	3,048.58	3/8	3,228.13	3/8	3,407.68	3/8	3,587.24
1/2	1,975.04	1/2	2,154.58	1/2	2,334.13	1/2	2,513.68	1/2	2,693.23	1/2	2,872.77	1/2	3,052.32	1/2	3,231.87	1/2	3,411.42	1/2	3,590.98
5/8	1,978.78	5/8	2,158.32	5/8	2,337.87	5/8	2,517.42	5/8	2,696.97	5/8	2,876.51	5/8	3,056.06	5/8	3,235.61	5/8	3,415.16	5/8	3,594.71
3/4	1,982.52	3/4	2,162.07	3/4	2,341.61	3/4	2,521.16	3/4	2,700.71	3/4	2,880.26	3/4	3,059.80	3/4	3,239.35	3/4	3,418.90	3/4	3,598.45
7/8	1,986.26	7/8	2,165.81	7/8	2,345.35	7/8	2,524.90	7/8	2,704.45	7/8	2,884.00	7/8	3,063.54	7/8	3,243.09	7/8	3,422.64	7/8	3,602.19

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BARGE "HFL 401"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/2"

IN	10 FT.	IN	10 FT.	IN	11 FT.	IN	11 FT.	IN	12 FT.	IN	12 FT.	IN	13 FT.	IN	13 FT.	IN	14 FT.	IN	14 FT.
0	3,605.93	6	3,785.48	0	3,965.05	6	4,144.60	0	4,324.14	6	4,503.69	0	4,683.24	6	4,861.69	0	5,039.98	6	5,145.52
1/8	3,609.67	1/8	3,789.22	1/8	3,968.79	1/8	4,148.33	1/8	4,327.88	1/8	4,507.43	1/8	4,686.97	1/8	4,865.40	1/8	5,043.49	1/8	5,145.85
1/4	3,613.41	1/4	3,792.96	1/4	3,972.52	1/4	4,152.07	1/4	4,331.63	1/4	4,511.17	1/4	4,690.71	1/4	4,869.12	1/4	5,046.99	1/4	5,146.18
3/8	3,617.15	3/8	3,796.70	3/8	3,976.26	3/8	4,155.81	3/8	4,335.37	3/8	4,514.91	3/8	4,694.44	3/8	4,872.83	3/8	5,050.50	3/8	5,146.51
1/2	3,620.89	1/2	3,800.44	1/2	3,980.00	1/2	4,159.55	1/2	4,339.11	1/2	4,518.65	1/2	4,698.18	1/2	4,876.55	1/2	5,054.01	1/2	5,146.83
5/8	3,624.63	5/8	3,804.18	5/8	3,983.74	5/8	4,163.29	5/8	4,342.85	5/8	4,522.40	5/8	4,701.91	5/8	4,880.26	5/8	5,057.52	5/8	5,147.16
3/4	3,628.38	3/4	3,807.92	3/4	3,987.48	3/4	4,167.02	3/4	4,346.59	3/4	4,526.14	3/4	4,705.65	3/4	4,883.98	3/4	5,061.03	3/4	5,147.49
7/8	3,632.12	7/8	3,811.66	7/8	3,991.21	7/8	4,170.76	7/8	4,350.33	7/8	4,529.88	7/8	4,709.38	7/8	4,887.69	7/8	5,064.54	7/8	5,147.82
1	3,635.86	7	3,815.40	1	3,994.95	7	4,174.50	1	4,354.07	7	4,533.62	1	4,713.12	7	4,891.40	1	5,068.05	7	5,148.14
1/8	3,639.60	1/8	3,819.15	1/8	3,998.69	1/8	4,178.24	1/8	4,357.81	1/8	4,537.36	1/8	4,716.83	1/8	4,895.12	1/8	5,071.09	1/8	
1/4	3,643.34	1/4	3,822.89	1/4	4,002.43	1/4	4,181.98	1/4	4,361.55	1/4	4,541.10	1/4	4,720.55	1/4	4,898.83	1/4	5,074.13	1/4	
3/8	3,647.08	3/8	3,826.63	3/8	4,006.18	3/8	4,185.72	3/8	4,365.29	3/8	4,544.83	3/8	4,724.26	3/8	4,902.55	3/8	5,077.16	3/8	
1/2	3,650.82	1/2	3,830.37	1/2	4,009.92	1/2	4,189.46	1/2	4,369.02	1/2	4,548.57	1/2	4,727.98	1/2	4,906.26	1/2	5,080.20	1/2	
5/8	3,654.56	5/8	3,834.11	5/8	4,013.66	5/8	4,193.21	5/8	4,372.76	5/8	4,552.31	5/8	4,731.69	5/8	4,909.98	5/8	5,083.24	5/8	
3/4	3,658.30	3/4	3,837.85	3/4	4,017.40	3/4	4,196.95	3/4	4,376.50	3/4	4,556.05	3/4	4,735.40	3/4	4,913.69	3/4	5,086.28	3/4	
7/8	3,662.04	7/8	3,841.59	7/8	4,021.14	7/8	4,200.69	7/8	4,380.24	7/8	4,559.79	7/8	4,739.12	7/8	4,917.40	7/8	5,089.32	7/8	
2	3,665.79	8	3,845.33	2	4,024.88	8	4,204.43	2	4,383.98	8	4,563.52	2	4,742.83	8	4,921.12	2	5,092.36	8	
1/8	3,669.53	1/8	3,849.07	1/8	4,028.62	1/8	4,208.17	1/8	4,387.72	1/8	4,567.26	1/8	4,746.55	1/8	4,924.83	1/8	5,094.85	1/8	
1/4	3,673.27	1/4	3,852.82	1/4	4,032.36	1/4	4,211.91	1/4	4,391.46	1/4	4,571.01	1/4	4,750.26	1/4	4,928.55	1/4	5,097.35	1/4	
3/8	3,677.01	3/8	3,856.56	3/8	4,036.10	3/8	4,215.65	3/8	4,395.20	3/8	4,574.75	3/8	4,753.98	3/8	4,932.26	3/8	5,099.84	3/8	
1/2	3,680.75	1/2	3,860.30	1/2	4,039.85	1/2	4,219.39	1/2	4,398.94	1/2	4,578.49	1/2	4,757.69	1/2	4,935.98	1/2	5,102.33	1/2	
5/8	3,684.49	5/8	3,864.04	5/8	4,043.59	5/8	4,223.13	5/8	4,402.68	5/8	4,582.23	5/8	4,761.40	5/8	4,939.69	5/8	5,104.83	5/8	
3/4	3,688.23	3/4	3,867.78	3/4	4,047.33	3/4	4,226.88	3/4	4,406.42	3/4	4,585.97	3/4	4,765.12	3/4	4,943.40	3/4	5,107.32	3/4	
7/8	3,691.97	7/8	3,871.52	7/8	4,051.07	7/8	4,230.62	7/8	4,410.16	7/8	4,589.71	7/8	4,768.83	7/8	4,947.12	7/8	5,109.82	7/8	
3	3,695.71	9	3,875.26	3	4,054.81	9	4,234.36	3	4,413.90	9	4,593.45	3	4,772.55	9	4,950.83	3	5,112.31	9	
1/8	3,699.46	1/8	3,879.00	1/8	4,058.55	1/8	4,238.10	1/8	4,417.65	1/8	4,597.19	1/8	4,776.26	1/8	4,954.55	1/8	5,114.25	1/8	
1/4	3,703.20	1/4	3,882.74	1/4	4,062.29	1/4	4,241.84	1/4	4,421.39	1/4	4,600.93	1/4	4,779.98	1/4	4,958.26	1/4	5,116.18	1/4	
3/8	3,706.94	3/8	3,886.49	3/8	4,066.03	3/8	4,245.58	3/8	4,425.13	3/8	4,604.68	3/8	4,783.69	3/8	4,961.98	3/8	5,118.12	3/8	
1/2	3,710.68	1/2	3,890.23	1/2	4,069.77	1/2	4,249.32	1/2	4,428.87	1/2	4,608.42	1/2	4,787.40	1/2	4,965.69	1/2	5,120.06	1/2	
5/8	3,714.42	5/8	3,893.97	5/8	4,073.51	5/8	4,253.06	5/8	4,432.61	5/8	4,612.16	5/8	4,791.12	5/8	4,969.40	5/8	5,122.00	5/8	
3/4	3,718.16	3/4	3,897.71	3/4	4,077.26	3/4	4,256.80	3/4	4,436.35	3/4	4,615.90	3/4	4,794.83	3/4	4,973.12	3/4	5,123.93	3/4	
7/8	3,721.90	7/8	3,901.45	7/8	4,081.00	7/8	4,260.54	7/8	4,440.09	7/8	4,619.64	7/8	4,798.55	7/8	4,976.83	7/8	5,125.87	7/8	
4	3,725.64	10	3,905.19	4	4,084.74	10	4,264.29	4	4,443.83	10	4,623.38	4	4,802.26	10	4,980.55	4	5,127.81	10	
1/8	3,729.38	1/8	3,908.93	1/8	4,088.48	1/8	4,268.03	1/8	4,447.57	1/8	4,627.12	1/8	4,805.98	1/8	4,984.26	1/8	5,129.19	1/8	
1/4	3,733.13	1/4	3,912.67	1/4	4,092.22	1/4	4,271.77	1/4	4,451.32	1/4	4,630.86	1/4	4,809.69	1/4	4,987.98	1/4	5,130.58	1/4	
3/8	3,736.87	3/8	3,916.41	3/8	4,095.96	3/8	4,275.51	3/8	4,455.06	3/8	4,634.60	3/8	4,813.40	3/8	4,991.69	3/8	5,131.96	3/8	
1/2	3,740.61	1/2	3,920.15	1/2	4,099.70	1/2	4,279.25	1/2	4,458.80	1/2	4,638.35	1/2	4,817.12	1/2	4,995.40	1/2	5,133.35	1/2	
5/8	3,744.35	5/8	3,923.90	5/8	4,103.44	5/8	4,282.99	5/8	4,462.54	5/8	4,642.09	5/8	4,820.83	5/8	4,999.12	5/8	5,134.73	5/8	
3/4	3,748.09	3/4	3,927.64	3/4	4,107.18	3/4	4,286.73	3/4	4,466.28	3/4	4,645.83	3/4	4,824.55	3/4	5,002.83	3/4	5,136.11	3/4	
7/8	3,751.83	7/8	3,931.38	7/8	4,110.93	7/8	4,290.47	7/8	4,470.02	7/8	4,649.57	7/8	4,828.26	7/8	5,006.55	7/8	5,137.50	7/8	
5	3,755.57	11	3,935.12	5	4,114.67	11	4,294.21	5	4,473.76	11	4,653.31	5	4,831.98	11	5,010.26	5	5,138.88	11	
1/8	3,759.31	1/8	3,938.86	1/8	4,118.41	1/8	4,297.96	1/8	4,477.50	1/8	4,657.05	1/8	4,835.69	1/8	5,013.98	1/8	5,139.71	1/8	
1/4	3,763.05	1/4	3,942.60	1/4	4,122.15	1/4	4,301.70	1/4	4,481.24	1/4	4,660.79	1/4	4,839.40	1/4	5,017.69	1/4	5,140.54	1/4	
3/8	3,766.79	3/8	3,946.34	3/8	4,125.89	3/8	4,305.44	3/8	4,484.99	3/8	4,664.53	3/8	4,843.12	3/8	5,021.40	3/8	5,141.37	3/8	
1/2	3,770.52	1/2	3,950.08	1/2	4,129.63	1/2	4,309.18	1/2	4,488.73	1/2	4,668.27	1/2	4,846.83	1/2	5,025.12	1/2	5,142.20	1/2	
5/8	3,774.26	5/8	3,953.82	5/8	4,133.37	5/8	4,312.92	5/8	4,492.47	5/8	4,672.01	5/8	4,850.55	5/8	5,028.83	5/8	5,143.03	5/8	
3/4	3,778.00	3/4	3,957.57	3/4	4,137.11	3/4	4,316.66	3/4	4,496.21	3/4	4,675.76	3/4	4,854.26	3/4	5,032.55	3/4	5,143.86	3/4	
7/8	3,781.74	7/8	3,961.31	7/8	4,140.85	7/8	4,320.40	7/8	4,499.95	7/8	4,679.50	7/8	4,857.98	7/8	5,036.26	7/8	5,144.69	7/8	

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BARGE "HFL 401"

2 STBD

INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/2"

IN	0 FT.	IN	0 FT.	IN	1 FT.	IN	1 FT.	IN	2 FT.	IN	2 FT.	IN	3 FT.	IN	3 FT.	IN	4 FT.	IN	4 FT.
0	22.43	6	194.50	0	374.05	6	553.60	0	733.14	6	912.69	0	1,092.24	6	1,271.79	0	1,451.33	6	1,630.88
1/8	25.30	1/8	198.24	1/8	377.79	1/8	557.34	1/8	736.88	1/8	916.43	1/8	1,095.98	1/8	1,275.53	1/8	1,455.07	1/8	1,634.62
1/4	28.17	1/4	201.98	1/4	381.53	1/4	561.08	1/4	740.62	1/4	920.17	1/4	1,099.72	1/4	1,279.27	1/4	1,458.82	1/4	1,638.36
3/8	31.04	3/8	205.72	3/8	385.27	3/8	564.82	3/8	744.37	3/8	923.91	3/8	1,103.46	3/8	1,283.01	3/8	1,462.56	3/8	1,642.10
1/2	33.92	1/2	209.46	1/2	389.01	1/2	568.56	1/2	748.11	1/2	927.65	1/2	1,107.20	1/2	1,286.75	1/2	1,466.30	1/2	1,645.85
5/8	36.79	5/8	213.21	5/8	392.75	5/8	572.30	5/8	751.85	5/8	931.40	5/8	1,110.94	5/8	1,290.49	5/8	1,470.04	5/8	1,649.59
3/4	39.66	3/4	216.95	3/4	396.49	3/4	576.04	3/4	755.59	3/4	935.14	3/4	1,114.68	3/4	1,294.23	3/4	1,473.78	3/4	1,653.33
7/8	42.53	7/8	220.69	7/8	400.24	7/8	579.78	7/8	759.33	7/8	938.88	7/8	1,118.43	7/8	1,297.97	7/8	1,477.52	7/8	1,657.07
1	45.40	7	224.43	1	403.98	7	583.52	1	763.07	7	942.62	1	1,122.17	7	1,301.71	1	1,481.26	7	1,660.81
1/8	49.08	1/8	228.17	1/8	407.71	1/8	587.26	1/8	766.81	1/8	946.36	1/8	1,125.91	1/8	1,305.46	1/8	1,485.00	1/8	1,664.55
1/4	52.75	1/4	231.90	1/4	411.45	1/4	591.01	1/4	770.55	1/4	950.10	1/4	1,129.65	1/4	1,309.20	1/4	1,488.74	1/4	1,668.29
3/8	56.42	3/8	235.64	3/8	415.19	3/8	594.75	3/8	774.29	3/8	953.84	3/8	1,133.39	3/8	1,312.94	3/8	1,492.49	3/8	1,672.03
1/2	60.10	1/2	239.38	1/2	418.93	1/2	598.49	1/2	778.04	1/2	957.58	1/2	1,137.13	1/2	1,316.68	1/2	1,496.23	1/2	1,675.77
5/8	63.77	5/8	243.12	5/8	422.67	5/8	602.23	5/8	781.78	5/8	961.32	5/8	1,140.87	5/8	1,320.42	5/8	1,499.97	5/8	1,679.51
3/4	67.44	3/4	246.86	3/4	426.40	3/4	605.97	3/4	785.52	3/4	965.07	3/4	1,144.61	3/4	1,324.16	3/4	1,503.71	3/4	1,683.26
7/8	71.11	7/8	250.60	7/8	430.14	7/8	609.71	7/8	789.26	7/8	968.81	7/8	1,148.35	7/8	1,327.90	7/8	1,507.45	7/8	1,687.00
2	74.79	8	254.33	2	433.88	8	613.45	2	793.00	8	972.55	2	1,152.10	8	1,331.64	2	1,511.19	8	1,690.74
1/8	78.53	1/8	258.07	1/8	437.62	1/8	617.19	1/8	796.74	1/8	976.29	1/8	1,155.84	1/8	1,335.38	1/8	1,514.93	1/8	1,694.48
1/4	82.27	1/4	261.82	1/4	441.36	1/4	620.93	1/4	800.48	1/4	980.03	1/4	1,159.58	1/4	1,339.13	1/4	1,518.67	1/4	1,698.22
3/8	86.01	3/8	265.56	3/8	445.10	3/8	624.67	3/8	804.21	3/8	983.77	3/8	1,163.32	3/8	1,342.87	3/8	1,522.41	3/8	1,701.96
1/2	89.75	1/2	269.30	1/2	448.85	1/2	628.40	1/2	807.95	1/2	987.51	1/2	1,167.06	1/2	1,346.61	1/2	1,526.15	1/2	1,705.70
5/8	93.49	5/8	273.04	5/8	452.59	5/8	632.14	5/8	811.69	5/8	991.25	5/8	1,170.80	5/8	1,350.35	5/8	1,529.90	5/8	1,709.44
3/4	97.23	3/4	276.78	3/4	456.33	3/4	635.88	3/4	815.43	3/4	994.99	3/4	1,174.54	3/4	1,354.09	3/4	1,533.64	3/4	1,713.18
7/8	100.97	7/8	280.52	7/8	460.07	7/8	639.62	7/8	819.17	7/8	998.74	7/8	1,178.28	7/8	1,357.83	7/8	1,537.38	7/8	1,716.93
3	104.71	9	284.26	3	463.81	9	643.36	3	822.90	9	1,002.48	3	1,182.02	9	1,361.57	3	1,541.12	9	1,720.67
1/8	108.46	1/8	288.00	1/8	467.55	1/8	647.10	1/8	826.65	1/8	1,006.21	1/8	1,185.76	1/8	1,365.31	1/8	1,544.86	1/8	1,724.41
1/4	112.20	1/4	291.74	1/4	471.29	1/4	650.84	1/4	830.39	1/4	1,009.95	1/4	1,189.51	1/4	1,369.05	1/4	1,548.60	1/4	1,728.15
3/8	115.94	3/8	295.49	3/8	475.03	3/8	654.58	3/8	834.13	3/8	1,013.69	3/8	1,193.25	3/8	1,372.79	3/8	1,552.34	3/8	1,731.89
1/2	119.68	1/2	299.23	1/2	478.77	1/2	658.32	1/2	837.87	1/2	1,017.43	1/2	1,196.99	1/2	1,376.54	1/2	1,556.08	1/2	1,735.63
5/8	123.42	5/8	302.97	5/8	482.51	5/8	662.06	5/8	841.61	5/8	1,021.17	5/8	1,200.73	5/8	1,380.28	5/8	1,559.82	5/8	1,739.37
3/4	127.16	3/4	306.71	3/4	486.26	3/4	665.80	3/4	845.35	3/4	1,024.90	3/4	1,204.47	3/4	1,384.02	3/4	1,563.57	3/4	1,743.11
7/8	130.90	7/8	310.45	7/8	490.00	7/8	669.54	7/8	849.09	7/8	1,028.64	7/8	1,208.21	7/8	1,387.76	7/8	1,567.31	7/8	1,746.85
4	134.64	10	314.19	4	493.74	10	673.29	4	852.83	10	1,032.38	4	1,211.95	10	1,391.50	4	1,571.05	10	1,750.60
1/8	138.38	1/8	317.93	1/8	497.48	1/8	677.03	1/8	856.57	1/8	1,036.12	1/8	1,215.69	1/8	1,395.24	1/8	1,574.79	1/8	1,754.34
1/4	142.12	1/4	321.67	1/4	501.22	1/4	680.77	1/4	860.32	1/4	1,039.86	1/4	1,219.43	1/4	1,398.98	1/4	1,578.53	1/4	1,758.08
3/8	145.87	3/8	325.41	3/8	504.96	3/8	684.51	3/8	864.06	3/8	1,043.60	3/8	1,223.17	3/8	1,402.71	3/8	1,582.27	3/8	1,761.82
1/2	149.61	1/2	329.15	1/2	508.70	1/2	688.25	1/2	867.80	1/2	1,047.35	1/2	1,226.90	1/2	1,406.45	1/2	1,586.01	1/2	1,765.56
5/8	153.35	5/8	332.90	5/8	512.44	5/8	691.99	5/8	871.54	5/8	1,051.09	5/8	1,230.64	5/8	1,410.19	5/8	1,589.75	5/8	1,769.30
3/4	157.09	3/4	336.64	3/4	516.18	3/4	695.73	3/4	875.28	3/4	1,054.83	3/4	1,234.38	3/4	1,413.93	3/4	1,593.49	3/4	1,773.04
7/8	160.83	7/8	340.38	7/8	519.93	7/8	699.47	7/8	879.02	7/8	1,058.57	7/8	1,238.12	7/8	1,417.67	7/8	1,597.24	7/8	1,776.78
5	164.57	11	344.12	5	523.67	11	703.21	5	882.76	11	1,062.31	5	1,241.86	11	1,421.40	5	1,600.98	11	1,780.52
1/8	168.31	1/8	347.86	1/8	527.41	1/8	706.96	1/8	886.50	1/8	1,066.05	1/8	1,245.60	1/8	1,425.15	1/8	1,604.71	1/8	1,784.26
1/4	172.05	1/4	351.60	1/4	531.15	1/4	710.70	1/4	890.24	1/4	1,069.79	1/4	1,249.34	1/4	1,428.89	1/4	1,608.45	1/4	1,788.00
3/8	175.79	3/8	355.34	3/8	534.89	3/8	714.44	3/8	893.99	3/8	1,073.53	3/8	1,253.08	3/8	1,432.63	3/8	1,612.19	3/8	1,791.74
1/2	179.54	1/2	359.08	1/2	538.63	1/2	718.18	1/2	897.73	1/2	1,077.27	1/2	1,256.82	1/2	1,436.37	1/2	1,615.93	1/2	1,795.48
5/8	183.28	5/8	362.82	5/8	542.37	5/8	721.92	5/8	901.47	5/8	1,081.01	5/8	1,260.56	5/8	1,440.11	5/8	1,619.67	5/8	1,799.21
3/4	187.02	3/4	366.57	3/4	546.11	3/4	725.66	3/4	905.21	3/4	1,084.76	3/4	1,264.30	3/4	1,443.85	3/4	1,623.40	3/4	1,802.95
7/8	190.76	7/8	370.31	7/8	549.85	7/8	729.40	7/8	908.95	7/8	1,088.50	7/8	1,268.04	7/8	1,447.59	7/8	1,627.14	7/8	1,806.69

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 INNAGE GAUGES TAKEN AT 2" DIAMETER BALL VALVE.

GAUGE POINT: (2" BALL VALVE) LOCATED NEAR CENTER OF TANK

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT

& ANALYSIS, INC.

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Pearland, Texas 77588

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BARGE "HFL 401"

2 STBD

INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/2"

IN	5 FT.	IN	5 FT.	IN	6 FT.	IN	6 FT.	IN	7 FT.	IN	7 FT.	IN	8 FT.	IN	8 FT.	IN	9 FT.	IN	9 FT.
0	1,810.43	6	1,990.00	0	2,169.55	6	2,349.10	0	2,528.64	6	2,708.19	0	2,887.74	6	3,067.29	0	3,246.83	6	3,426.38
1/8	1,814.17	1/8	1,993.74	1/8	2,173.29	1/8	2,352.84	1/8	2,532.38	1/8	2,711.93	1/8	2,891.48	1/8	3,071.03	1/8	3,250.57	1/8	3,430.12
1/4	1,817.91	1/4	1,997.48	1/4	2,177.02	1/4	2,356.58	1/4	2,536.13	1/4	2,715.67	1/4	2,895.22	1/4	3,074.77	1/4	3,254.32	1/4	3,433.86
3/8	1,821.65	3/8	2,001.21	3/8	2,180.76	3/8	2,360.32	3/8	2,539.87	3/8	2,719.41	3/8	2,898.96	3/8	3,078.51	3/8	3,258.06	3/8	3,437.60
1/2	1,825.39	1/2	2,004.95	1/2	2,184.50	1/2	2,364.06	1/2	2,543.61	1/2	2,723.15	1/2	2,902.70	1/2	3,082.25	1/2	3,261.80	1/2	3,441.35
5/8	1,829.13	5/8	2,008.69	5/8	2,188.24	5/8	2,367.80	5/8	2,547.35	5/8	2,726.90	5/8	2,906.44	5/8	3,085.99	5/8	3,265.54	5/8	3,445.09
3/4	1,832.88	3/4	2,012.43	3/4	2,191.98	3/4	2,371.54	3/4	2,551.09	3/4	2,730.64	3/4	2,910.18	3/4	3,089.73	3/4	3,269.28	3/4	3,448.83
7/8	1,836.62	7/8	2,016.17	7/8	2,195.71	7/8	2,375.28	7/8	2,554.83	7/8	2,734.38	7/8	2,913.93	7/8	3,093.47	7/8	3,273.02	7/8	3,452.57
1	1,840.36	7	2,019.90	1	2,199.45	7	2,379.02	1	2,558.57	7	2,738.12	1	2,917.67	7	3,097.21	1	3,276.76	7	3,456.31
1/8	1,844.10	1/8	2,023.65	1/8	2,203.19	1/8	2,382.76	1/8	2,562.31	1/8	2,741.86	1/8	2,921.41	1/8	3,100.96	1/8	3,280.50	1/8	3,460.05
1/4	1,847.84	1/4	2,027.39	1/4	2,206.93	1/4	2,386.50	1/4	2,566.05	1/4	2,745.60	1/4	2,925.15	1/4	3,104.70	1/4	3,284.24	1/4	3,463.79
3/8	1,851.58	3/8	2,031.13	3/8	2,210.68	3/8	2,390.24	3/8	2,569.79	3/8	2,749.34	3/8	2,928.89	3/8	3,108.44	3/8	3,287.99	3/8	3,467.53
1/2	1,855.32	1/2	2,034.87	1/2	2,214.42	1/2	2,393.98	1/2	2,573.54	1/2	2,753.08	1/2	2,932.63	1/2	3,112.18	1/2	3,291.73	1/2	3,471.27
5/8	1,859.06	5/8	2,038.61	5/8	2,218.16	5/8	2,397.71	5/8	2,577.28	5/8	2,756.82	5/8	2,936.37	5/8	3,115.92	5/8	3,295.47	5/8	3,475.01
3/4	1,862.80	3/4	2,042.35	3/4	2,221.90	3/4	2,401.45	3/4	2,581.02	3/4	2,760.57	3/4	2,940.11	3/4	3,119.66	3/4	3,299.21	3/4	3,478.76
7/8	1,866.54	7/8	2,046.09	7/8	2,225.64	7/8	2,405.19	7/8	2,584.76	7/8	2,764.31	7/8	2,943.85	7/8	3,123.40	7/8	3,302.95	7/8	3,482.50
2	1,870.29	8	2,049.83	2	2,229.38	8	2,408.93	2	2,588.50	8	2,768.05	2	2,947.60	8	3,127.14	2	3,306.69	8	3,486.24
1/8	1,874.03	1/8	2,053.57	1/8	2,233.12	1/8	2,412.67	1/8	2,592.24	1/8	2,771.79	1/8	2,951.34	1/8	3,130.88	1/8	3,310.43	1/8	3,489.98
1/4	1,877.77	1/4	2,057.32	1/4	2,236.86	1/4	2,416.41	1/4	2,595.98	1/4	2,775.52	1/4	2,955.08	1/4	3,134.63	1/4	3,314.17	1/4	3,493.72
3/8	1,881.51	3/8	2,061.06	3/8	2,240.60	3/8	2,420.15	3/8	2,599.71	3/8	2,779.26	3/8	2,958.82	3/8	3,138.37	3/8	3,317.91	3/8	3,497.46
1/2	1,885.25	1/2	2,064.80	1/2	2,244.35	1/2	2,423.89	1/2	2,603.45	1/2	2,783.00	1/2	2,962.56	1/2	3,142.11	1/2	3,321.65	1/2	3,501.20
5/8	1,888.99	5/8	2,068.54	5/8	2,248.09	5/8	2,427.63	5/8	2,607.19	5/8	2,786.74	5/8	2,966.30	5/8	3,145.85	5/8	3,325.40	5/8	3,504.94
3/4	1,892.73	3/4	2,072.28	3/4	2,251.83	3/4	2,431.38	3/4	2,610.93	3/4	2,790.48	3/4	2,970.04	3/4	3,149.59	3/4	3,329.14	3/4	3,508.68
7/8	1,896.47	7/8	2,076.02	7/8	2,255.57	7/8	2,435.12	7/8	2,614.67	7/8	2,794.21	7/8	2,973.78	7/8	3,153.33	7/8	3,332.88	7/8	3,512.43
3	1,900.21	9	2,079.76	3	2,259.31	9	2,438.86	3	2,618.40	9	2,797.95	3	2,977.52	9	3,157.07	3	3,336.62	9	3,516.17
1/8	1,903.96	1/8	2,083.50	1/8	2,263.05	1/8	2,442.60	1/8	2,622.15	1/8	2,801.69	1/8	2,981.26	1/8	3,160.81	1/8	3,340.36	1/8	3,519.91
1/4	1,907.70	1/4	2,087.24	1/4	2,266.79	1/4	2,446.34	1/4	2,625.89	1/4	2,805.43	1/4	2,985.00	1/4	3,164.55	1/4	3,344.10	1/4	3,523.65
3/8	1,911.44	3/8	2,090.99	3/8	2,270.53	3/8	2,450.08	3/8	2,629.63	3/8	2,809.18	3/8	2,988.74	3/8	3,168.29	3/8	3,347.84	3/8	3,527.39
1/2	1,915.18	1/2	2,094.73	1/2	2,274.27	1/2	2,453.82	1/2	2,633.37	1/2	2,812.92	1/2	2,992.48	1/2	3,172.02	1/2	3,351.58	1/2	3,531.13
5/8	1,918.92	5/8	2,098.47	5/8	2,278.01	5/8	2,457.56	5/8	2,637.11	5/8	2,816.66	5/8	2,996.21	5/8	3,175.76	5/8	3,355.32	5/8	3,534.87
3/4	1,922.66	3/4	2,102.21	3/4	2,281.76	3/4	2,461.30	3/4	2,640.85	3/4	2,820.40	3/4	2,999.95	3/4	3,179.50	3/4	3,359.07	3/4	3,538.61
7/8	1,926.40	7/8	2,105.95	7/8	2,285.50	7/8	2,465.04	7/8	2,644.59	7/8	2,824.14	7/8	3,003.69	7/8	3,183.24	7/8	3,362.81	7/8	3,542.35
4	1,930.14	10	2,109.69	4	2,289.24	10	2,468.79	4	2,648.33	10	2,827.88	4	3,007.43	10	3,186.98	4	3,366.55	10	3,546.10
1/8	1,933.88	1/8	2,113.43	1/8	2,292.98	1/8	2,472.53	1/8	2,652.07	1/8	2,831.62	1/8	3,011.17	1/8	3,190.72	1/8	3,370.29	1/8	3,549.84
1/4	1,937.63	1/4	2,117.17	1/4	2,296.72	1/4	2,476.27	1/4	2,655.82	1/4	2,835.36	1/4	3,014.91	1/4	3,194.46	1/4	3,374.02	1/4	3,553.58
3/8	1,941.37	3/8	2,120.91	3/8	2,300.46	3/8	2,480.01	3/8	2,659.56	3/8	2,839.10	3/8	3,018.65	3/8	3,198.20	3/8	3,377.76	3/8	3,557.32
1/2	1,945.11	1/2	2,124.65	1/2	2,304.20	1/2	2,483.75	1/2	2,663.30	1/2	2,842.85	1/2	3,022.39	1/2	3,201.94	1/2	3,381.50	1/2	3,561.06
5/8	1,948.85	5/8	2,128.40	5/8	2,307.94	5/8	2,487.49	5/8	2,667.04	5/8	2,846.59	5/8	3,026.13	5/8	3,205.68	5/8	3,385.24	5/8	3,564.80
3/4	1,952.59	3/4	2,132.14	3/4	2,311.68	3/4	2,491.23	3/4	2,670.78	3/4	2,850.33	3/4	3,029.88	3/4	3,209.42	3/4	3,388.98	3/4	3,568.54
7/8	1,956.33	7/8	2,135.88	7/8	2,315.43	7/8	2,494.97	7/8	2,674.52	7/8	2,854.07	7/8	3,033.62	7/8	3,213.16	7/8	3,392.71	7/8	3,572.28
5	1,960.07	11	2,139.62	5	2,319.17	11	2,498.71	5	2,678.26	11	2,857.81	5	3,037.36	11	3,216.90	5	3,396.45	11	3,576.02
1/8	1,963.81	1/8	2,143.36	1/8	2,322.91	1/8	2,502.46	1/8	2,682.00	1/8	2,861.55	1/8	3,041.10	1/8	3,220.65	1/8	3,400.19	1/8	3,579.76
1/4	1,967.55	1/4	2,147.10	1/4	2,326.65	1/4	2,506.20	1/4	2,685.74	1/4	2,865.29	1/4	3,044.84	1/4	3,224.39	1/4	3,403.93	1/4	3,583.50
3/8	1,971.29	3/8	2,150.84	3/8	2,330.39	3/8	2,509.94	3/8	2,689.49	3/8	2,869.03	3/8	3,048.58	3/8	3,228.13	3/8	3,407.68	3/8	3,587.24
1/2	1,975.04	1/2	2,154.58	1/2	2,334.13	1/2	2,513.68	1/2	2,693.23	1/2	2,872.77	1/2	3,052.32	1/2	3,231.87	1/2	3,411.42	1/2	3,590.98
5/8	1,978.78	5/8	2,158.32	5/8	2,337.87	5/8	2,517.42	5/8	2,696.97	5/8	2,876.51	5/8	3,056.06	5/8	3,235.61	5/8	3,415.16	5/8	3,594.71
3/4	1,982.52	3/4	2,162.07	3/4	2,341.61	3/4	2,521.16	3/4	2,700.71	3/4	2,880.26	3/4	3,059.80	3/4	3,239.35	3/4	3,418.90	3/4	3,598.45
7/8	1,986.26	7/8	2,165.81	7/8	2,345.35	7/8	2,524.90	7/8	2,704.45	7/8	2,884.00	7/8	3,063.54	7/8	3,243.09	7/8	3,422.64	7/8	3,602.19

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BARGE "HFL 401"

2 STBD

INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/2"

IN	10 FT.	IN	10 FT.	IN	11 FT.	IN	11 FT.	IN	12 FT.	IN	12 FT.	IN	13 FT.	IN	13 FT.	IN	14 FT.	IN	14 FT.
0	3,605.93	6	3,785.48	0	3,965.05	6	4,144.60	0	4,324.14	6	4,503.69	0	4,683.24	6	4,861.69	0	5,039.98	6	5,145.52
1/8	3,609.67	1/8	3,789.22	1/8	3,968.79	1/8	4,148.33	1/8	4,327.88	1/8	4,507.43	1/8	4,686.97	1/8	4,865.40	1/8	5,043.49	1/8	5,145.85
1/4	3,613.41	1/4	3,792.96	1/4	3,972.52	1/4	4,152.07	1/4	4,331.63	1/4	4,511.17	1/4	4,690.71	1/4	4,869.12	1/4	5,046.99	1/4	5,146.18
3/8	3,617.15	3/8	3,796.70	3/8	3,976.26	3/8	4,155.81	3/8	4,335.37	3/8	4,514.91	3/8	4,694.44	3/8	4,872.83	3/8	5,050.50	3/8	5,146.51
1/2	3,620.89	1/2	3,800.44	1/2	3,980.00	1/2	4,159.55	1/2	4,339.11	1/2	4,518.65	1/2	4,698.18	1/2	4,876.55	1/2	5,054.01	1/2	5,146.83
5/8	3,624.63	5/8	3,804.18	5/8	3,983.74	5/8	4,163.29	5/8	4,342.85	5/8	4,522.40	5/8	4,701.91	5/8	4,880.26	5/8	5,057.52	5/8	5,147.16
3/4	3,628.38	3/4	3,807.92	3/4	3,987.48	3/4	4,167.02	3/4	4,346.59	3/4	4,526.14	3/4	4,705.65	3/4	4,883.98	3/4	5,061.03	3/4	5,147.49
7/8	3,632.12	7/8	3,811.66	7/8	3,991.21	7/8	4,170.76	7/8	4,350.33	7/8	4,529.88	7/8	4,709.38	7/8	4,887.69	7/8	5,064.54	7/8	5,147.82
1	3,635.86	7	3,815.40	1	3,994.95	7	4,174.50	1	4,354.07	7	4,533.62	1	4,713.12	7	4,891.40	1	5,068.05	7	5,148.14
1/8	3,639.60	1/8	3,819.15	1/8	3,998.69	1/8	4,178.24	1/8	4,357.81	1/8	4,537.36	1/8	4,716.83	1/8	4,895.12	1/8	5,071.09	1/8	
1/4	3,643.34	1/4	3,822.89	1/4	4,002.43	1/4	4,181.98	1/4	4,361.55	1/4	4,541.10	1/4	4,720.55	1/4	4,898.83	1/4	5,074.13	1/4	
3/8	3,647.08	3/8	3,826.63	3/8	4,006.18	3/8	4,185.72	3/8	4,365.29	3/8	4,544.83	3/8	4,724.26	3/8	4,902.55	3/8	5,077.16	3/8	
1/2	3,650.82	1/2	3,830.37	1/2	4,009.92	1/2	4,189.46	1/2	4,369.02	1/2	4,548.57	1/2	4,727.98	1/2	4,906.26	1/2	5,080.20	1/2	
5/8	3,654.56	5/8	3,834.11	5/8	4,013.66	5/8	4,193.21	5/8	4,372.76	5/8	4,552.31	5/8	4,731.69	5/8	4,909.98	5/8	5,083.24	5/8	
3/4	3,658.30	3/4	3,837.85	3/4	4,017.40	3/4	4,196.95	3/4	4,376.50	3/4	4,556.05	3/4	4,735.40	3/4	4,913.69	3/4	5,086.28	3/4	
7/8	3,662.04	7/8	3,841.59	7/8	4,021.14	7/8	4,200.69	7/8	4,380.24	7/8	4,559.79	7/8	4,739.12	7/8	4,917.40	7/8	5,089.32	7/8	
2	3,665.79	8	3,845.33	2	4,024.88	8	4,204.43	2	4,383.98	8	4,563.52	2	4,742.83	8	4,921.12	2	5,092.36	8	
1/8	3,669.53	1/8	3,849.07	1/8	4,028.62	1/8	4,208.17	1/8	4,387.72	1/8	4,567.26	1/8	4,746.55	1/8	4,924.83	1/8	5,094.85	1/8	
1/4	3,673.27	1/4	3,852.82	1/4	4,032.36	1/4	4,211.91	1/4	4,391.46	1/4	4,571.01	1/4	4,750.26	1/4	4,928.55	1/4	5,097.35	1/4	
3/8	3,677.01	3/8	3,856.56	3/8	4,036.10	3/8	4,215.65	3/8	4,395.20	3/8	4,574.75	3/8	4,753.98	3/8	4,932.26	3/8	5,099.84	3/8	
1/2	3,680.75	1/2	3,860.30	1/2	4,039.85	1/2	4,219.39	1/2	4,398.94	1/2	4,578.49	1/2	4,757.69	1/2	4,935.98	1/2	5,102.33	1/2	
5/8	3,684.49	5/8	3,864.04	5/8	4,043.59	5/8	4,223.13	5/8	4,402.68	5/8	4,582.23	5/8	4,761.40	5/8	4,939.69	5/8	5,104.83	5/8	
3/4	3,688.23	3/4	3,867.78	3/4	4,047.33	3/4	4,226.88	3/4	4,406.42	3/4	4,585.97	3/4	4,765.12	3/4	4,943.40	3/4	5,107.32	3/4	
7/8	3,691.97	7/8	3,871.52	7/8	4,051.07	7/8	4,230.62	7/8	4,410.16	7/8	4,589.71	7/8	4,768.83	7/8	4,947.12	7/8	5,109.82	7/8	
3	3,695.71	9	3,875.26	3	4,054.81	9	4,234.36	3	4,413.90	9	4,593.45	3	4,772.55	9	4,950.83	3	5,112.31	9	
1/8	3,699.46	1/8	3,879.00	1/8	4,058.55	1/8	4,238.10	1/8	4,417.65	1/8	4,597.19	1/8	4,776.26	1/8	4,954.55	1/8	5,114.25	1/8	
1/4	3,703.20	1/4	3,882.74	1/4	4,062.29	1/4	4,241.84	1/4	4,421.39	1/4	4,600.93	1/4	4,779.98	1/4	4,958.26	1/4	5,116.18	1/4	
3/8	3,706.94	3/8	3,886.49	3/8	4,066.03	3/8	4,245.58	3/8	4,425.13	3/8	4,604.68	3/8	4,783.69	3/8	4,961.98	3/8	5,118.12	3/8	
1/2	3,710.68	1/2	3,890.23	1/2	4,069.77	1/2	4,249.32	1/2	4,428.87	1/2	4,608.42	1/2	4,787.40	1/2	4,965.69	1/2	5,120.06	1/2	
5/8	3,714.42	5/8	3,893.97	5/8	4,073.51	5/8	4,253.06	5/8	4,432.61	5/8	4,612.16	5/8	4,791.12	5/8	4,969.40	5/8	5,122.00	5/8	
3/4	3,718.16	3/4	3,897.71	3/4	4,077.26	3/4	4,256.80	3/4	4,436.35	3/4	4,615.90	3/4	4,794.83	3/4	4,973.12	3/4	5,123.93	3/4	
7/8	3,721.90	7/8	3,901.45	7/8	4,081.00	7/8	4,260.54	7/8	4,440.09	7/8	4,619.64	7/8	4,798.55	7/8	4,976.83	7/8	5,125.87	7/8	
4	3,725.64	10	3,905.19	4	4,084.74	10	4,264.29	4	4,443.83	10	4,623.38	4	4,802.26	10	4,980.55	4	5,127.81	10	
1/8	3,729.38	1/8	3,908.93	1/8	4,088.48	1/8	4,268.03	1/8	4,447.57	1/8	4,627.12	1/8	4,805.98	1/8	4,984.26	1/8	5,129.19	1/8	
1/4	3,733.13	1/4	3,912.67	1/4	4,092.22	1/4	4,271.77	1/4	4,451.32	1/4	4,630.86	1/4	4,809.69	1/4	4,987.98	1/4	5,130.58	1/4	
3/8	3,736.87	3/8	3,916.41	3/8	4,095.96	3/8	4,275.51	3/8	4,455.06	3/8	4,634.60	3/8	4,813.40	3/8	4,991.69	3/8	5,131.96	3/8	
1/2	3,740.61	1/2	3,920.15	1/2	4,099.70	1/2	4,279.25	1/2	4,458.80	1/2	4,638.35	1/2	4,817.12	1/2	4,995.40	1/2	5,133.35	1/2	
5/8	3,744.35	5/8	3,923.90	5/8	4,103.44	5/8	4,282.99	5/8	4,462.54	5/8	4,642.09	5/8	4,820.83	5/8	4,999.12	5/8	5,134.73	5/8	
3/4	3,748.09	3/4	3,927.64	3/4	4,107.18	3/4	4,286.73	3/4	4,466.28	3/4	4,645.83	3/4	4,824.55	3/4	5,002.83	3/4	5,136.11	3/4	
7/8	3,751.83	7/8	3,931.38	7/8	4,110.93	7/8	4,290.47	7/8	4,470.02	7/8	4,649.57	7/8	4,828.26	7/8	5,006.55	7/8	5,137.50	7/8	
5	3,755.57	11	3,935.12	5	4,114.67	11	4,294.21	5	4,473.76	11	4,653.31	5	4,831.98	11	5,010.26	5	5,138.88	11	
1/8	3,759.31	1/8	3,938.86	1/8	4,118.41	1/8	4,297.96	1/8	4,477.50	1/8	4,657.05	1/8	4,835.69	1/8	5,013.98	1/8	5,139.71	1/8	
1/4	3,763.05	1/4	3,942.60	1/4	4,122.15	1/4	4,301.70	1/4	4,481.24	1/4	4,660.79	1/4	4,839.40	1/4	5,017.69	1/4	5,140.54	1/4	
3/8	3,766.79	3/8	3,946.34	3/8	4,125.89	3/8	4,305.44	3/8	4,484.99	3/8	4,664.53	3/8	4,843.12	3/8	5,021.40	3/8	5,141.37	3/8	
1/2	3,770.52	1/2	3,950.08	1/2	4,129.63	1/2	4,309.18	1/2	4,488.73	1/2	4,668.27	1/2	4,846.83	1/2	5,025.12	1/2	5,142.20	1/2	
5/8	3,774.26	5/8	3,953.82	5/8	4,133.37	5/8	4,312.92	5/8	4,492.47	5/8	4,672.01	5/8	4,850.55	5/8	5,028.83	5/8	5,143.03	5/8	
3/4	3,778.00	3/4	3,957.57	3/4	4,137.11	3/4	4,316.66	3/4	4,496.21	3/4	4,675.76	3/4	4,854.26	3/4	5,032.55	3/4	5,143.86	3/4	
7/8	3,781.74	7/8	3,961.31	7/8	4,140.85	7/8	4,320.40	7/8	4,499.95	7/8	4,679.50	7/8	4,857.98	7/8	5,036.26	7/8	5,144.69	7/8	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/12/2007 INS
REPRINTED: 12/02/2021 CL

PRECISION MEASUREMENT
& ANALYSIS, INC.

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2021

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BARGE "HFL 401"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/2"

IN	0 FT.	IN	0 FT.	IN	1 FT.	IN	1 FT.	IN	2 FT.	IN	2 FT.	IN	3 FT.	IN	3 FT.	IN	4 FT.	IN	4 FT.
0	22.31	6	193.86	0	372.88	6	551.88	0	730.64	6	908.95	0	1,087.57	6	1,266.69	0	1,445.83	6	1,624.98
1/8	25.17	1/8	197.59	1/8	376.61	1/8	555.61	1/8	734.36	1/8	912.67	1/8	1,091.30	1/8	1,270.42	1/8	1,449.57	1/8	1,628.71
1/4	28.04	1/4	201.32	1/4	380.34	1/4	559.34	1/4	738.07	1/4	916.38	1/4	1,095.04	1/4	1,274.15	1/4	1,453.30	1/4	1,632.44
3/8	30.90	3/8	205.04	3/8	384.07	3/8	563.07	3/8	741.79	3/8	920.10	3/8	1,098.77	3/8	1,277.89	3/8	1,457.03	3/8	1,636.17
1/2	33.76	1/2	208.77	1/2	387.80	1/2	566.80	1/2	745.50	1/2	923.81	1/2	1,102.50	1/2	1,281.62	1/2	1,460.76	1/2	1,639.90
5/8	36.62	5/8	212.50	5/8	391.53	5/8	570.53	5/8	749.21	5/8	927.52	5/8	1,106.23	5/8	1,285.35	5/8	1,464.49	5/8	1,643.64
3/4	39.49	3/4	216.23	3/4	395.26	3/4	574.26	3/4	752.93	3/4	931.24	3/4	1,109.96	3/4	1,289.08	3/4	1,468.23	3/4	1,647.37
7/8	42.35	7/8	219.96	7/8	398.99	7/8	577.99	7/8	756.64	7/8	934.95	7/8	1,113.70	7/8	1,292.82	7/8	1,471.96	7/8	1,651.10
1	45.21	7	223.69	1	402.71	7	581.71	1	760.36	7	938.67	1	1,117.43	7	1,296.55	1	1,475.69	7	1,654.83
1/8	48.87	1/8	227.42	1/8	406.44	1/8	585.45	1/8	764.07	1/8	942.38	1/8	1,121.16	1/8	1,300.28	1/8	1,479.42	1/8	1,658.56
1/4	52.54	1/4	231.15	1/4	410.17	1/4	589.18	1/4	767.79	1/4	946.10	1/4	1,124.89	1/4	1,304.01	1/4	1,483.15	1/4	1,662.29
3/8	56.20	3/8	234.88	3/8	413.90	3/8	592.91	3/8	771.50	3/8	949.81	3/8	1,128.62	3/8	1,307.74	3/8	1,486.89	3/8	1,666.02
1/2	59.86	1/2	238.61	1/2	417.63	1/2	596.64	1/2	775.21	1/2	953.52	1/2	1,132.35	1/2	1,311.48	1/2	1,490.62	1/2	1,669.75
5/8	63.52	5/8	242.34	5/8	421.36	5/8	600.38	5/8	778.93	5/8	957.24	5/8	1,136.07	5/8	1,315.21	5/8	1,494.35	5/8	1,673.48
3/4	67.18	3/4	246.07	3/4	425.09	3/4	604.11	3/4	782.64	3/4	960.95	3/4	1,139.80	3/4	1,318.94	3/4	1,498.08	3/4	1,677.21
7/8	70.84	7/8	249.79	7/8	428.82	7/8	607.84	7/8	786.36	7/8	964.67	7/8	1,143.53	7/8	1,322.67	7/8	1,501.82	7/8	1,680.94
2	74.50	8	253.52	2	432.55	8	611.57	2	790.07	8	968.38	2	1,147.26	8	1,326.40	2	1,505.55	8	1,684.67
1/8	78.23	1/8	257.25	1/8	436.28	1/8	615.30	1/8	793.79	1/8	972.10	1/8	1,150.99	1/8	1,330.14	1/8	1,509.28	1/8	1,688.40
1/4	81.96	1/4	260.98	1/4	440.01	1/4	619.03	1/4	797.50	1/4	975.81	1/4	1,154.73	1/4	1,333.87	1/4	1,513.01	1/4	1,692.13
3/8	85.70	3/8	264.71	3/8	443.74	3/8	622.76	3/8	801.21	3/8	979.52	3/8	1,158.46	3/8	1,337.60	3/8	1,516.74	3/8	1,695.86
1/2	89.43	1/2	268.44	1/2	447.46	1/2	626.49	1/2	804.93	1/2	983.24	1/2	1,162.19	1/2	1,341.33	1/2	1,520.48	1/2	1,699.60
5/8	93.16	5/8	272.17	5/8	451.19	5/8	630.22	5/8	808.64	5/8	986.95	5/8	1,165.92	5/8	1,345.07	5/8	1,524.21	5/8	1,703.33
3/4	96.89	3/4	275.90	3/4	454.92	3/4	633.95	3/4	812.36	3/4	990.67	3/4	1,169.65	3/4	1,348.80	3/4	1,527.94	3/4	1,707.06
7/8	100.62	7/8	279.63	7/8	458.65	7/8	637.68	7/8	816.07	7/8	994.38	7/8	1,173.39	7/8	1,352.53	7/8	1,531.67	7/8	1,710.79
3	104.36	9	283.36	3	462.38	9	641.40	3	819.79	9	998.10	3	1,177.12	9	1,356.26	3	1,535.40	9	1,714.52
1/8	108.09	1/8	287.09	1/8	466.11	1/8	645.13	1/8	823.50	1/8	1,001.82	1/8	1,180.85	1/8	1,359.99	1/8	1,539.14	1/8	1,718.26
1/4	111.82	1/4	290.82	1/4	469.84	1/4	648.86	1/4	827.21	1/4	1,005.54	1/4	1,184.58	1/4	1,363.73	1/4	1,542.87	1/4	1,721.99
3/8	115.54	3/8	294.54	3/8	473.57	3/8	652.58	3/8	830.93	3/8	1,009.26	3/8	1,188.32	3/8	1,367.46	3/8	1,546.60	3/8	1,725.72
1/2	119.27	1/2	298.27	1/2	477.30	1/2	656.31	1/2	834.64	1/2	1,012.98	1/2	1,192.05	1/2	1,371.19	1/2	1,550.33	1/2	1,729.45
5/8	123.00	5/8	302.00	5/8	481.03	5/8	660.04	5/8	838.36	5/8	1,016.70	5/8	1,195.78	5/8	1,374.92	5/8	1,554.07	5/8	1,733.18
3/4	126.73	3/4	305.73	3/4	484.76	3/4	663.76	3/4	842.07	3/4	1,020.42	3/4	1,199.51	3/4	1,378.65	3/4	1,557.80	3/4	1,736.92
7/8	130.46	7/8	309.46	7/8	488.49	7/8	667.49	7/8	845.79	7/8	1,024.14	7/8	1,203.24	7/8	1,382.39	7/8	1,561.53	7/8	1,740.65
4	134.19	10	313.19	4	492.21	10	671.21	4	849.50	10	1,027.86	4	1,206.98	10	1,386.12	4	1,565.26	10	1,744.38
1/8	137.92	1/8	316.92	1/8	495.94	1/8	674.93	1/8	853.22	1/8	1,031.59	1/8	1,210.71	1/8	1,389.85	1/8	1,568.99	1/8	1,748.11
1/4	141.65	1/4	320.65	1/4	499.67	1/4	678.64	1/4	856.93	1/4	1,035.32	1/4	1,214.44	1/4	1,393.58	1/4	1,572.73	1/4	1,751.85
3/8	145.38	3/8	324.39	3/8	503.40	3/8	682.36	3/8	860.65	3/8	1,039.05	3/8	1,218.17	3/8	1,397.32	3/8	1,576.46	3/8	1,755.58
1/2	149.11	1/2	328.12	1/2	507.13	1/2	686.07	1/2	864.37	1/2	1,042.79	1/2	1,221.90	1/2	1,401.05	1/2	1,580.19	1/2	1,759.31
5/8	152.84	5/8	331.85	5/8	510.86	5/8	689.79	5/8	868.09	5/8	1,046.52	5/8	1,225.64	5/8	1,404.78	5/8	1,583.92	5/8	1,763.04
3/4	156.57	3/4	335.58	3/4	514.59	3/4	693.50	3/4	871.80	3/4	1,050.25	3/4	1,229.37	3/4	1,408.51	3/4	1,587.65	3/4	1,766.77
7/8	160.29	7/8	339.32	7/8	518.32	7/8	697.21	7/8	875.52	7/8	1,053.98	7/8	1,233.10	7/8	1,412.24	7/8	1,591.39	7/8	1,770.51
5	164.02	11	343.05	5	522.05	11	700.93	5	879.24	11	1,057.71	5	1,236.83	11	1,415.98	5	1,595.12	11	1,774.24
1/8	167.75	1/8	346.78	1/8	525.78	1/8	704.64	1/8	882.95	1/8	1,061.45	1/8	1,240.57	1/8	1,419.71	1/8	1,598.85	1/8	1,777.97
1/4	171.48	1/4	350.51	1/4	529.51	1/4	708.36	1/4	886.67	1/4	1,065.18	1/4	1,244.30	1/4	1,423.44	1/4	1,602.58	1/4	1,781.70
3/8	175.21	3/8	354.24	3/8	533.24	3/8	712.07	3/8	890.38	3/8	1,068.91	3/8	1,248.03	3/8	1,427.17	3/8	1,606.32	3/8	1,785.43
1/2	178.94	1/2	357.96	1/2	536.96	1/2	715.79	1/2	894.10	1/2	1,072.64	1/2	1,251.76	1/2	1,430.90	1/2	1,610.05	1/2	1,789.17
5/8	182.67	5/8	361.69	5/8	540.69	5/8	719.50	5/8	897.81	5/8	1,076.38	5/8	1,255.49	5/8	1,434.64	5/8	1,613.78	5/8	1,792.90
3/4	186.40	3/4	365.42	3/4	544.42	3/4	723.21	3/4	901.52	3/4	1,080.11	3/4	1,259.23	3/4	1,438.37	3/4	1,617.51	3/4	1,796.63
7/8	190.13	7/8	369.15	7/8	548.15	7/8	726.93	7/8	905.24	7/8	1,083.84	7/8	1,262.96	7/8	1,442.10	7/8	1,621.24	7/8	1,800.36

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 AT 2" DIAMETER BALL VALVE.

GAUGE POINT: (2" BALL VALVE) LOCATED NEAR CENTER OF TANK

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT

& ANALYSIS, INC.

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Pearland, Texas 77588

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BARGE "HFL 401"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/2"

IN	5 FT.	IN	5 FT.	IN	6 FT.	IN	6 FT.	IN	7 FT.	IN	7 FT.	IN	8 FT.	IN	8 FT.	IN	9 FT.	IN	9 FT.
0	1,804.10	6	1,983.24	0	2,162.38	6	2,341.50	0	2,520.64	6	2,699.79	0	2,878.90	6	3,058.05	0	3,237.19	6	3,416.31
1/8	1,807.83	1/8	1,986.97	1/8	2,166.11	1/8	2,345.23	1/8	2,524.38	1/8	2,703.51	1/8	2,882.64	1/8	3,061.78	1/8	3,240.92	1/8	3,419.96
1/4	1,811.56	1/4	1,990.70	1/4	2,169.84	1/4	2,348.96	1/4	2,528.11	1/4	2,707.24	1/4	2,886.37	1/4	3,065.51	1/4	3,244.65	1/4	3,423.61
3/8	1,815.29	3/8	1,994.43	3/8	2,173.57	3/8	2,352.70	3/8	2,531.84	3/8	2,710.97	3/8	2,890.10	3/8	3,069.24	3/8	3,248.38	3/8	3,427.26
1/2	1,819.02	1/2	1,998.17	1/2	2,177.30	1/2	2,356.43	1/2	2,535.57	1/2	2,714.70	1/2	2,893.83	1/2	3,072.98	1/2	3,252.11	1/2	3,430.90
5/8	1,822.76	5/8	2,001.90	5/8	2,181.03	5/8	2,360.16	5/8	2,539.30	5/8	2,718.43	5/8	2,897.57	5/8	3,076.71	5/8	3,255.84	5/8	3,434.55
3/4	1,826.49	3/4	2,005.63	3/4	2,184.76	3/4	2,363.89	3/4	2,543.04	3/4	2,722.16	3/4	2,901.30	3/4	3,080.44	3/4	3,259.57	3/4	3,438.20
7/8	1,830.22	7/8	2,009.36	7/8	2,188.49	7/8	2,367.63	7/8	2,546.77	7/8	2,725.89	7/8	2,905.03	7/8	3,084.17	7/8	3,263.29	7/8	3,441.85
1	1,833.95	7	2,013.10	1	2,192.21	7	2,371.36	1	2,550.50	7	2,729.62	1	2,908.76	7	3,087.90	1	3,267.02	7	3,445.50
1/8	1,837.68	1/8	2,016.83	1/8	2,195.95	1/8	2,375.09	1/8	2,554.23	1/8	2,733.35	1/8	2,912.49	1/8	3,091.64	1/8	3,270.76	1/8	3,448.98
1/4	1,841.42	1/4	2,020.56	1/4	2,199.68	1/4	2,378.82	1/4	2,557.96	1/4	2,737.08	1/4	2,916.23	1/4	3,095.37	1/4	3,274.49	1/4	3,452.46
3/8	1,845.15	3/8	2,024.29	3/8	2,203.41	3/8	2,382.55	3/8	2,561.70	3/8	2,740.82	3/8	2,919.96	3/8	3,099.10	3/8	3,278.22	3/8	3,455.95
1/2	1,848.88	1/2	2,028.02	1/2	2,207.14	1/2	2,386.29	1/2	2,565.43	1/2	2,744.55	1/2	2,923.69	1/2	3,102.83	1/2	3,281.95	1/2	3,459.43
5/8	1,852.61	5/8	2,031.76	5/8	2,210.88	5/8	2,390.02	5/8	2,569.16	5/8	2,748.28	5/8	2,927.42	5/8	3,106.57	5/8	3,285.68	5/8	3,462.91
3/4	1,856.35	3/4	2,035.49	3/4	2,214.61	3/4	2,393.75	3/4	2,572.89	3/4	2,752.01	3/4	2,931.15	3/4	3,110.30	3/4	3,289.42	3/4	3,466.39
7/8	1,860.08	7/8	2,039.22	7/8	2,218.34	7/8	2,397.48	7/8	2,576.63	7/8	2,755.74	7/8	2,934.89	7/8	3,114.03	7/8	3,293.15	7/8	3,469.88
2	1,863.81	8	2,042.95	2	2,222.07	8	2,401.21	2	2,580.36	8	2,759.48	2	2,938.62	8	3,117.76	2	3,296.88	8	3,473.36
1/8	1,867.54	1/8	2,046.68	1/8	2,225.80	1/8	2,404.95	1/8	2,584.09	1/8	2,763.21	1/8	2,942.35	1/8	3,121.49	1/8	3,300.61	1/8	3,476.67
1/4	1,871.27	1/4	2,050.42	1/4	2,229.54	1/4	2,408.68	1/4	2,587.82	1/4	2,766.94	1/4	2,946.08	1/4	3,125.23	1/4	3,304.35	1/4	3,479.98
3/8	1,875.01	3/8	2,054.15	3/8	2,233.27	3/8	2,412.41	3/8	2,591.55	3/8	2,770.67	3/8	2,949.82	3/8	3,128.96	3/8	3,308.08	3/8	3,483.29
1/2	1,878.74	1/2	2,057.88	1/2	2,237.00	1/2	2,416.14	1/2	2,595.29	1/2	2,774.40	1/2	2,953.55	1/2	3,132.69	1/2	3,311.81	1/2	3,486.60
5/8	1,882.47	5/8	2,061.61	5/8	2,240.73	5/8	2,419.88	5/8	2,599.02	5/8	2,778.14	5/8	2,957.28	5/8	3,136.42	5/8	3,315.54	5/8	3,489.90
3/4	1,886.20	3/4	2,065.35	3/4	2,244.46	3/4	2,423.61	3/4	2,602.75	3/4	2,781.87	3/4	2,961.01	3/4	3,140.15	3/4	3,319.27	3/4	3,493.21
7/8	1,889.93	7/8	2,069.08	7/8	2,248.20	7/8	2,427.34	7/8	2,606.48	7/8	2,785.60	7/8	2,964.74	7/8	3,143.89	7/8	3,323.01	7/8	3,496.52
3	1,893.67	9	2,072.81	3	2,251.93	9	2,431.07	3	2,610.21	9	2,789.33	3	2,968.48	9	3,147.62	3	3,326.74	9	3,499.83
1/8	1,897.40	1/8	2,076.54	1/8	2,255.66	1/8	2,434.80	1/8	2,613.95	1/8	2,793.07	1/8	2,972.21	1/8	3,151.35	1/8	3,330.47	1/8	3,502.97
1/4	1,901.13	1/4	2,080.27	1/4	2,259.39	1/4	2,438.54	1/4	2,617.68	1/4	2,796.80	1/4	2,975.94	1/4	3,155.08	1/4	3,334.20	1/4	3,506.11
3/8	1,904.86	3/8	2,084.01	3/8	2,263.13	3/8	2,442.27	3/8	2,621.41	3/8	2,800.53	3/8	2,979.67	3/8	3,158.82	3/8	3,337.93	3/8	3,509.25
1/2	1,908.60	1/2	2,087.74	1/2	2,266.86	1/2	2,446.00	1/2	2,625.14	1/2	2,804.26	1/2	2,983.40	1/2	3,162.55	1/2	3,341.67	1/2	3,512.39
5/8	1,912.33	5/8	2,091.47	5/8	2,270.59	5/8	2,449.73	5/8	2,628.88	5/8	2,807.99	5/8	2,987.14	5/8	3,166.28	5/8	3,345.40	5/8	3,515.53
3/4	1,916.06	3/4	2,095.20	3/4	2,274.32	3/4	2,453.46	3/4	2,632.61	3/4	2,811.73	3/4	2,990.87	3/4	3,170.01	3/4	3,349.13	3/4	3,518.67
7/8	1,919.79	7/8	2,098.93	7/8	2,278.05	7/8	2,457.20	7/8	2,636.34	7/8	2,815.46	7/8	2,994.60	7/8	3,173.74	7/8	3,352.86	7/8	3,521.81
4	1,923.52	10	2,102.67	4	2,281.79	10	2,460.93	4	2,640.07	10	2,819.19	4	2,998.33	10	3,177.48	4	3,356.60	10	3,524.95
1/8	1,927.26	1/8	2,106.40	1/8	2,285.52	1/8	2,464.66	1/8	2,643.80	1/8	2,822.92	1/8	3,002.07	1/8	3,181.21	1/8	3,360.33	1/8	3,527.92
1/4	1,930.99	1/4	2,110.13	1/4	2,289.25	1/4	2,468.39	1/4	2,647.54	1/4	2,826.65	1/4	3,005.80	1/4	3,184.94	1/4	3,364.06	1/4	3,530.89
3/8	1,934.72	3/8	2,113.86	3/8	2,292.98	3/8	2,472.13	3/8	2,651.27	3/8	2,830.39	3/8	3,009.53	3/8	3,188.67	3/8	3,367.79	3/8	3,533.86
1/2	1,938.45	1/2	2,117.60	1/2	2,296.71	1/2	2,475.86	1/2	2,655.00	1/2	2,834.12	1/2	3,013.26	1/2	3,192.40	1/2	3,371.52	1/2	3,536.83
5/8	1,942.18	5/8	2,121.33	5/8	2,300.45	5/8	2,479.59	5/8	2,658.73	5/8	2,837.85	5/8	3,016.99	5/8	3,196.14	5/8	3,375.26	5/8	3,539.80
3/4	1,945.92	3/4	2,125.06	3/4	2,304.18	3/4	2,483.32	3/4	2,662.46	3/4	2,841.58	3/4	3,020.73	3/4	3,199.87	3/4	3,378.99	3/4	3,542.77
7/8	1,949.65	7/8	2,128.79	7/8	2,307.91	7/8	2,487.05	7/8	2,666.20	7/8	2,845.32	7/8	3,024.46	7/8	3,203.60	7/8	3,382.72	7/8	3,545.74
5	1,953.38	11	2,132.52	5	2,311.64	11	2,490.79	5	2,669.93	11	2,849.05	5	3,028.19	11	3,207.33	5	3,386.45	11	3,548.71
1/8	1,957.11	1/8	2,136.26	1/8	2,315.38	1/8	2,494.52	1/8	2,673.66	1/8	2,852.78	1/8	3,031.92	1/8	3,211.07	1/8	3,390.18	1/8	3,551.51
1/4	1,960.85	1/4	2,139.99	1/4	2,319.11	1/4	2,498.25	1/4	2,677.39	1/4	2,856.51	1/4	3,035.65	1/4	3,214.80	1/4	3,393.92	1/4	3,554.32
3/8	1,964.58	3/8	2,143.72	3/8	2,322.84	3/8	2,501.98	3/8	2,681.13	3/8	2,860.24	3/8	3,039.39	3/8	3,218.53	3/8	3,397.65	3/8	3,557.12
1/2	1,968.31	1/2	2,147.45	1/2	2,326.57	1/2	2,505.71	1/2	2,684.86	1/2	2,863.98	1/2	3,043.12	1/2	3,222.26	1/2	3,401.38	1/2	3,559.92
5/8	1,972.04	5/8	2,151.18	5/8	2,330.30	5/8	2,509.45	5/8	2,688.59	5/8	2,867.71	5/8	3,046.85	5/8	3,225.99	5/8	3,405.11	5/8	3,562.72
3/4	1,975.77	3/4	2,154.92	3/4	2,334.04	3/4	2,513.18	3/4	2,692.32	3/4	2,871.44	3/4	3,050.58	3/4	3,229.73	3/4	3,408.85	3/4	3,565.52
7/8	1,979.51	7/8	2,158.65	7/8	2,337.77	7/8	2,516.91	7/8	2,696.05	7/8	2,875.17	7/8	3,054.32	7/8	3,233.46	7/8	3,412.58	7/8	3,568.32

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT

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BARGE "HFL 401"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/2"

IN	10 FT.	IN	10 FT.	IN	11 FT.	IN	11 FT.	IN	12 FT.	IN	12 FT.	IN	13 FT.	IN	13 FT.	IN	14 FT.	IN	14 FT.
0	3,571.12	6	3,695.76	0	3,820.05	6	3,944.31	0	4,068.57	6	4,192.83	0	4,317.10	6	4,441.36	0	4,565.62	6	4,638.83
1/8	3,573.76	1/8	3,698.35	1/8	3,822.63	1/8	3,946.90	1/8	4,071.16	1/8	4,195.42	1/8	4,319.68	1/8	4,443.95	1/8	4,568.07	1/8	4,639.06
1/4	3,576.39	1/4	3,700.94	1/4	3,825.22	1/4	3,949.48	1/4	4,073.75	1/4	4,198.01	1/4	4,322.27	1/4	4,446.54	1/4	4,570.51	1/4	4,639.29
3/8	3,579.03	3/8	3,703.53	3/8	3,827.81	3/8	3,952.07	3/8	4,076.34	3/8	4,200.60	3/8	4,324.86	3/8	4,449.13	3/8	4,572.96	3/8	4,639.51
1/2	3,581.67	1/2	3,706.12	1/2	3,830.39	1/2	3,954.65	1/2	4,078.93	1/2	4,203.19	1/2	4,327.45	1/2	4,451.71	1/2	4,575.40	1/2	4,639.74
5/8	3,584.30	5/8	3,708.71	5/8	3,832.98	5/8	3,957.24	5/8	4,081.52	5/8	4,205.78	5/8	4,330.04	5/8	4,454.30	5/8	4,577.85	5/8	4,639.96
3/4	3,586.94	3/4	3,711.30	3/4	3,835.57	3/4	3,959.83	3/4	4,084.11	3/4	4,208.37	3/4	4,332.63	3/4	4,456.89	3/4	4,580.30	3/4	4,640.19
7/8	3,589.58	7/8	3,713.89	7/8	3,838.15	7/8	3,962.41	7/8	4,086.70	7/8	4,210.96	7/8	4,335.22	7/8	4,459.48	7/8	4,582.74	7/8	4,640.42
1	3,592.21	7	3,716.48	1	3,840.74	7	3,965.00	1	4,089.29	7	4,213.55	1	4,337.81	7	4,462.07	1	4,585.19	7	4,640.64
1/8	3,594.80	1/8	3,719.07	1/8	3,843.33	1/8	3,967.59	1/8	4,091.87	1/8	4,216.14	1/8	4,340.40	1/8	4,464.66	1/8	4,587.30	1/8	
1/4	3,597.39	1/4	3,721.65	1/4	3,845.92	1/4	3,970.18	1/4	4,094.46	1/4	4,218.73	1/4	4,342.99	1/4	4,467.25	1/4	4,589.40	1/4	
3/8	3,599.98	3/8	3,724.24	3/8	3,848.51	3/8	3,972.77	3/8	4,097.04	3/8	4,221.32	3/8	4,345.58	3/8	4,469.84	3/8	4,591.51	3/8	
1/2	3,602.57	1/2	3,726.83	1/2	3,851.10	1/2	3,975.36	1/2	4,099.63	1/2	4,223.90	1/2	4,348.17	1/2	4,472.43	1/2	4,593.62	1/2	
5/8	3,605.16	5/8	3,729.42	5/8	3,853.68	5/8	3,977.95	5/8	4,102.22	5/8	4,226.49	5/8	4,350.76	5/8	4,475.02	5/8	4,595.73	5/8	
3/4	3,607.75	3/4	3,732.01	3/4	3,856.27	3/4	3,980.54	3/4	4,104.80	3/4	4,229.08	3/4	4,353.35	3/4	4,477.61	3/4	4,597.83	3/4	
7/8	3,610.34	7/8	3,734.60	7/8	3,858.86	7/8	3,983.13	7/8	4,107.39	7/8	4,231.67	7/8	4,355.93	7/8	4,480.20	7/8	4,599.94	7/8	
2	3,612.93	8	3,737.19	2	3,861.45	8	3,985.71	2	4,109.98	8	4,234.26	2	4,358.52	8	4,482.79	2	4,602.05	8	
1/8	3,615.52	1/8	3,739.78	1/8	3,864.04	1/8	3,988.30	1/8	4,112.57	1/8	4,236.85	1/8	4,361.11	1/8	4,485.38	1/8	4,603.77	1/8	
1/4	3,618.11	1/4	3,742.37	1/4	3,866.63	1/4	3,990.89	1/4	4,115.15	1/4	4,239.43	1/4	4,363.70	1/4	4,487.96	1/4	4,605.50	1/4	
3/8	3,620.70	3/8	3,744.96	3/8	3,869.22	3/8	3,993.48	3/8	4,117.74	3/8	4,242.02	3/8	4,366.29	3/8	4,490.55	3/8	4,607.23	3/8	
1/2	3,623.29	1/2	3,747.55	1/2	3,871.81	1/2	3,996.07	1/2	4,120.33	1/2	4,244.61	1/2	4,368.88	1/2	4,493.14	1/2	4,608.95	1/2	
5/8	3,625.88	5/8	3,750.14	5/8	3,874.40	5/8	3,998.66	5/8	4,122.92	5/8	4,247.19	5/8	4,371.47	5/8	4,495.73	5/8	4,610.68	5/8	
3/4	3,628.46	3/4	3,752.73	3/4	3,876.99	3/4	4,001.25	3/4	4,125.51	3/4	4,249.78	3/4	4,374.06	3/4	4,498.32	3/4	4,612.40	3/4	
7/8	3,631.05	7/8	3,755.32	7/8	3,879.58	7/8	4,003.84	7/8	4,128.10	7/8	4,252.37	7/8	4,376.65	7/8	4,500.91	7/8	4,614.13	7/8	
3	3,633.64	9	3,757.90	3	3,882.17	9	4,006.43	3	4,130.69	9	4,254.95	3	4,379.24	9	4,503.50	3	4,615.86	9	
1/8	3,636.23	1/8	3,760.49	1/8	3,884.76	1/8	4,009.02	1/8	4,133.28	1/8	4,257.54	1/8	4,381.82	1/8	4,506.09	1/8	4,617.20	1/8	
1/4	3,638.82	1/4	3,763.08	1/4	3,887.35	1/4	4,011.61	1/4	4,135.87	1/4	4,260.13	1/4	4,384.41	1/4	4,508.67	1/4	4,618.54	1/4	
3/8	3,641.41	3/8	3,765.67	3/8	3,889.93	3/8	4,014.20	3/8	4,138.46	3/8	4,262.72	3/8	4,387.00	3/8	4,511.26	3/8	4,619.88	3/8	
1/2	3,644.00	1/2	3,768.26	1/2	3,892.52	1/2	4,016.79	1/2	4,141.05	1/2	4,265.31	1/2	4,389.58	1/2	4,513.85	1/2	4,621.23	1/2	
5/8	3,646.59	5/8	3,770.85	5/8	3,895.11	5/8	4,019.38	5/8	4,143.64	5/8	4,267.90	5/8	4,392.17	5/8	4,516.43	5/8	4,622.57	5/8	
3/4	3,649.18	3/4	3,773.44	3/4	3,897.70	3/4	4,021.96	3/4	4,146.23	3/4	4,270.49	3/4	4,394.76	3/4	4,519.02	3/4	4,623.91	3/4	
7/8	3,651.77	7/8	3,776.03	7/8	3,900.29	7/8	4,024.55	7/8	4,148.82	7/8	4,273.08	7/8	4,397.34	7/8	4,521.60	7/8	4,625.25	7/8	
4	3,654.36	10	3,778.62	4	3,902.88	10	4,027.14	4	4,151.40	10	4,275.67	4	4,399.93	10	4,524.19	4	4,626.60	10	
1/8	3,656.95	1/8	3,781.21	1/8	3,905.47	1/8	4,029.73	1/8	4,153.99	1/8	4,278.26	1/8	4,402.52	1/8	4,526.78	1/8	4,627.55	1/8	
1/4	3,659.54	1/4	3,783.80	1/4	3,908.06	1/4	4,032.32	1/4	4,156.58	1/4	4,280.85	1/4	4,405.11	1/4	4,529.37	1/4	4,628.51	1/4	
3/8	3,662.13	3/8	3,786.39	3/8	3,910.65	3/8	4,034.91	3/8	4,159.17	3/8	4,283.43	3/8	4,407.70	3/8	4,531.96	3/8	4,629.46	3/8	
1/2	3,664.71	1/2	3,788.98	1/2	3,913.24	1/2	4,037.50	1/2	4,161.76	1/2	4,286.02	1/2	4,410.29	1/2	4,534.55	1/2	4,630.42	1/2	
5/8	3,667.30	5/8	3,791.57	5/8	3,915.83	5/8	4,040.09	5/8	4,164.35	5/8	4,288.61	5/8	4,412.88	5/8	4,537.14	5/8	4,631.37	5/8	
3/4	3,669.89	3/4	3,794.15	3/4	3,918.42	3/4	4,042.68	3/4	4,166.94	3/4	4,291.20	3/4	4,415.46	3/4	4,539.73	3/4	4,632.33	3/4	
7/8	3,672.48	7/8	3,796.74	7/8	3,921.01	7/8	4,045.27	7/8	4,169.53	7/8	4,293.79	7/8	4,418.05	7/8	4,542.32	7/8	4,633.28	7/8	
5	3,675.07	11	3,799.33	5	3,923.60	11	4,047.86	5	4,172.12	11	4,296.38	5	4,420.64	11	4,544.90	5	4,634.24	11	
1/8	3,677.66	1/8	3,801.92	1/8	3,926.18	1/8	4,050.45	1/8	4,174.71	1/8	4,298.97	1/8	4,423.23	1/8	4,547.49	1/8	4,634.81	1/8	
1/4	3,680.24	1/4	3,804.51	1/4	3,928.77	1/4	4,053.04	1/4	4,177.30	1/4	4,301.56	1/4	4,425.82	1/4	4,550.08	1/4	4,635.39	1/4	
3/8	3,682.83	3/8	3,807.10	3/8	3,931.36	3/8	4,055.63	3/8	4,179.89	3/8	4,304.15	3/8	4,428.41	3/8	4,552.67	3/8	4,635.96	3/8	
1/2	3,685.42	1/2	3,809.69	1/2	3,933.95	1/2	4,058.21	1/2	4,182.48	1/2	4,306.74	1/2	4,431.00	1/2	4,555.26	1/2	4,636.54	1/2	
5/8	3,688.00	5/8	3,812.28	5/8	3,936.54	5/8	4,060.80	5/8	4,185.07	5/8	4,309.33	5/8	4,433.59	5/8	4,557.85	5/8	4,637.11	5/8	
3/4	3,690.59	3/4	3,814.87	3/4	3,939.13	3/4	4,063.39	3/4	4,187.65	3/4	4,311.92	3/4	4,436.18	3/4	4,560.44	3/4	4,637.68	3/4	
7/8	3,693.18	7/8	3,817.46	7/8	3,941.72	7/8	4,065.98	7/8	4,190.24	7/8	4,314.51	7/8	4,438.77	7/8	4,563.03	7/8	4,638.26	7/8	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/12/2007 INS
REPRINTED: 12/02/2021 CL

CANCELS AND SUPERCEDES
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BARGE "HFL 401"

3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/2"

IN	0 FT.	IN	0 FT.	IN	1 FT.	IN	1 FT.	IN	2 FT.	IN	2 FT.	IN	3 FT.	IN	3 FT.	IN	4 FT.	IN	4 FT.
0	22.31	6	193.86	0	372.88	6	551.88	0	730.64	6	908.95	0	1,087.57	6	1,266.69	0	1,445.83	6	1,624.98
1/8	25.17	1/8	197.59	1/8	376.61	1/8	555.61	1/8	734.36	1/8	912.67	1/8	1,091.30	1/8	1,270.42	1/8	1,449.57	1/8	1,628.71
1/4	28.04	1/4	201.32	1/4	380.34	1/4	559.34	1/4	738.07	1/4	916.38	1/4	1,095.04	1/4	1,274.15	1/4	1,453.30	1/4	1,632.44
3/8	30.90	3/8	205.04	3/8	384.07	3/8	563.07	3/8	741.79	3/8	920.10	3/8	1,098.77	3/8	1,277.89	3/8	1,457.03	3/8	1,636.17
1/2	33.76	1/2	208.77	1/2	387.80	1/2	566.80	1/2	745.50	1/2	923.81	1/2	1,102.50	1/2	1,281.62	1/2	1,460.76	1/2	1,639.90
5/8	36.62	5/8	212.50	5/8	391.53	5/8	570.53	5/8	749.21	5/8	927.52	5/8	1,106.23	5/8	1,285.35	5/8	1,464.49	5/8	1,643.64
3/4	39.49	3/4	216.23	3/4	395.26	3/4	574.26	3/4	752.93	3/4	931.24	3/4	1,109.96	3/4	1,289.08	3/4	1,468.23	3/4	1,647.37
7/8	42.35	7/8	219.96	7/8	398.99	7/8	577.99	7/8	756.64	7/8	934.95	7/8	1,113.70	7/8	1,292.82	7/8	1,471.96	7/8	1,651.10
1	45.21	7	223.69	1	402.71	7	581.71	1	760.36	7	938.67	1	1,117.43	7	1,296.55	1	1,475.69	7	1,654.83
1/8	48.87	1/8	227.42	1/8	406.44	1/8	585.45	1/8	764.07	1/8	942.38	1/8	1,121.16	1/8	1,300.28	1/8	1,479.42	1/8	1,658.56
1/4	52.54	1/4	231.15	1/4	410.17	1/4	589.18	1/4	767.79	1/4	946.10	1/4	1,124.89	1/4	1,304.01	1/4	1,483.15	1/4	1,662.29
3/8	56.20	3/8	234.88	3/8	413.90	3/8	592.91	3/8	771.50	3/8	949.81	3/8	1,128.62	3/8	1,307.74	3/8	1,486.89	3/8	1,666.02
1/2	59.86	1/2	238.61	1/2	417.63	1/2	596.64	1/2	775.21	1/2	953.52	1/2	1,132.35	1/2	1,311.48	1/2	1,490.62	1/2	1,669.75
5/8	63.52	5/8	242.34	5/8	421.36	5/8	600.38	5/8	778.93	5/8	957.24	5/8	1,136.07	5/8	1,315.21	5/8	1,494.35	5/8	1,673.48
3/4	67.18	3/4	246.07	3/4	425.09	3/4	604.11	3/4	782.64	3/4	960.95	3/4	1,139.80	3/4	1,318.94	3/4	1,498.08	3/4	1,677.21
7/8	70.84	7/8	249.79	7/8	428.82	7/8	607.84	7/8	786.36	7/8	964.67	7/8	1,143.53	7/8	1,322.67	7/8	1,501.82	7/8	1,680.94
2	74.50	8	253.52	2	432.55	8	611.57	2	790.07	8	968.38	2	1,147.26	8	1,326.40	2	1,505.55	8	1,684.67
1/8	78.23	1/8	257.25	1/8	436.28	1/8	615.30	1/8	793.79	1/8	972.10	1/8	1,150.99	1/8	1,330.14	1/8	1,509.28	1/8	1,688.40
1/4	81.96	1/4	260.98	1/4	440.01	1/4	619.03	1/4	797.50	1/4	975.81	1/4	1,154.73	1/4	1,333.87	1/4	1,513.01	1/4	1,692.13
3/8	85.70	3/8	264.71	3/8	443.74	3/8	622.76	3/8	801.21	3/8	979.52	3/8	1,158.46	3/8	1,337.60	3/8	1,516.74	3/8	1,695.86
1/2	89.43	1/2	268.44	1/2	447.46	1/2	626.49	1/2	804.93	1/2	983.24	1/2	1,162.19	1/2	1,341.33	1/2	1,520.48	1/2	1,699.60
5/8	93.16	5/8	272.17	5/8	451.19	5/8	630.22	5/8	808.64	5/8	986.95	5/8	1,165.92	5/8	1,345.07	5/8	1,524.21	5/8	1,703.33
3/4	96.89	3/4	275.90	3/4	454.92	3/4	633.95	3/4	812.36	3/4	990.67	3/4	1,169.65	3/4	1,348.80	3/4	1,527.94	3/4	1,707.06
7/8	100.62	7/8	279.63	7/8	458.65	7/8	637.68	7/8	816.07	7/8	994.38	7/8	1,173.39	7/8	1,352.53	7/8	1,531.67	7/8	1,710.79
3	104.36	9	283.36	3	462.38	9	641.40	3	819.79	9	998.10	3	1,177.12	9	1,356.26	3	1,535.40	9	1,714.52
1/8	108.09	1/8	287.09	1/8	466.11	1/8	645.13	1/8	823.50	1/8	1,001.82	1/8	1,180.85	1/8	1,359.99	1/8	1,539.14	1/8	1,718.26
1/4	111.82	1/4	290.82	1/4	469.84	1/4	648.86	1/4	827.21	1/4	1,005.54	1/4	1,184.58	1/4	1,363.73	1/4	1,542.87	1/4	1,721.99
3/8	115.54	3/8	294.54	3/8	473.57	3/8	652.58	3/8	830.93	3/8	1,009.26	3/8	1,188.32	3/8	1,367.46	3/8	1,546.60	3/8	1,725.72
1/2	119.27	1/2	298.27	1/2	477.30	1/2	656.31	1/2	834.64	1/2	1,012.98	1/2	1,192.05	1/2	1,371.19	1/2	1,550.33	1/2	1,729.45
5/8	123.00	5/8	302.00	5/8	481.03	5/8	660.04	5/8	838.36	5/8	1,016.70	5/8	1,195.78	5/8	1,374.92	5/8	1,554.07	5/8	1,733.18
3/4	126.73	3/4	305.73	3/4	484.76	3/4	663.76	3/4	842.07	3/4	1,020.42	3/4	1,199.51	3/4	1,378.65	3/4	1,557.80	3/4	1,736.92
7/8	130.46	7/8	309.46	7/8	488.49	7/8	667.49	7/8	845.79	7/8	1,024.14	7/8	1,203.24	7/8	1,382.39	7/8	1,561.53	7/8	1,740.65
4	134.19	10	313.19	4	492.21	10	671.21	4	849.50	10	1,027.86	4	1,206.98	10	1,386.12	4	1,565.26	10	1,744.38
1/8	137.92	1/8	316.92	1/8	495.94	1/8	674.93	1/8	853.22	1/8	1,031.59	1/8	1,210.71	1/8	1,389.85	1/8	1,568.99	1/8	1,748.11
1/4	141.65	1/4	320.65	1/4	499.67	1/4	678.64	1/4	856.93	1/4	1,035.32	1/4	1,214.44	1/4	1,393.58	1/4	1,572.73	1/4	1,751.85
3/8	145.38	3/8	324.39	3/8	503.40	3/8	682.36	3/8	860.65	3/8	1,039.05	3/8	1,218.17	3/8	1,397.32	3/8	1,576.46	3/8	1,755.58
1/2	149.11	1/2	328.12	1/2	507.13	1/2	686.07	1/2	864.37	1/2	1,042.79	1/2	1,221.90	1/2	1,401.05	1/2	1,580.19	1/2	1,759.31
5/8	152.84	5/8	331.85	5/8	510.86	5/8	689.79	5/8	868.09	5/8	1,046.52	5/8	1,225.64	5/8	1,404.78	5/8	1,583.92	5/8	1,763.04
3/4	156.57	3/4	335.58	3/4	514.59	3/4	693.50	3/4	871.80	3/4	1,050.25	3/4	1,229.37	3/4	1,408.51	3/4	1,587.65	3/4	1,766.77
7/8	160.29	7/8	339.32	7/8	518.32	7/8	697.21	7/8	875.52	7/8	1,053.98	7/8	1,233.10	7/8	1,412.24	7/8	1,591.39	7/8	1,770.51
5	164.02	11	343.05	5	522.05	11	700.93	5	879.24	11	1,057.71	5	1,236.83	11	1,415.98	5	1,595.12	11	1,774.24
1/8	167.75	1/8	346.78	1/8	525.78	1/8	704.64	1/8	882.95	1/8	1,061.45	1/8	1,240.57	1/8	1,419.71	1/8	1,598.85	1/8	1,777.97
1/4	171.48	1/4	350.51	1/4	529.51	1/4	708.36	1/4	886.67	1/4	1,065.18	1/4	1,244.30	1/4	1,423.44	1/4	1,602.58	1/4	1,781.70
3/8	175.21	3/8	354.24	3/8	533.24	3/8	712.07	3/8	890.38	3/8	1,068.91	3/8	1,248.03	3/8	1,427.17	3/8	1,606.32	3/8	1,785.43
1/2	178.94	1/2	357.96	1/2	536.96	1/2	715.79	1/2	894.10	1/2	1,072.64	1/2	1,251.76	1/2	1,430.90	1/2	1,610.05	1/2	1,789.17
5/8	182.67	5/8	361.69	5/8	540.69	5/8	719.50	5/8	897.81	5/8	1,076.38	5/8	1,255.49	5/8	1,434.64	5/8	1,613.78	5/8	1,792.90
3/4	186.40	3/4	365.42	3/4	544.42	3/4	723.21	3/4	901.52	3/4	1,080.11	3/4	1,259.23	3/4	1,438.37	3/4	1,617.51	3/4	1,796.63
7/8	190.13	7/8	369.15	7/8	548.15	7/8	726.93	7/8	905.24	7/8	1,083.84	7/8	1,262.96	7/8	1,442.10	7/8	1,621.24	7/8	1,800.36

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 AT 2" DIAMETER BALL VALVE.

GAUGE POINT: (2" BALL VALVE) LOCATED NEAR CENTER OF TANK

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 401"

3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/2"

IN	5 FT.	IN	5 FT.	IN	6 FT.	IN	6 FT.	IN	7 FT.	IN	7 FT.	IN	8 FT.	IN	8 FT.	IN	9 FT.	IN	9 FT.
0	1,804.10	6	1,983.24	0	2,162.38	6	2,341.50	0	2,520.64	6	2,699.79	0	2,878.90	6	3,058.05	0	3,237.19	6	3,416.31
1/8	1,807.83	1/8	1,986.97	1/8	2,166.11	1/8	2,345.23	1/8	2,524.38	1/8	2,703.51	1/8	2,882.64	1/8	3,061.78	1/8	3,240.92	1/8	3,419.96
1/4	1,811.56	1/4	1,990.70	1/4	2,169.84	1/4	2,348.96	1/4	2,528.11	1/4	2,707.24	1/4	2,886.37	1/4	3,065.51	1/4	3,244.65	1/4	3,423.61
3/8	1,815.29	3/8	1,994.43	3/8	2,173.57	3/8	2,352.70	3/8	2,531.84	3/8	2,710.97	3/8	2,890.10	3/8	3,069.24	3/8	3,248.38	3/8	3,427.26
1/2	1,819.02	1/2	1,998.17	1/2	2,177.30	1/2	2,356.43	1/2	2,535.57	1/2	2,714.70	1/2	2,893.83	1/2	3,072.98	1/2	3,252.11	1/2	3,430.90
5/8	1,822.76	5/8	2,001.90	5/8	2,181.03	5/8	2,360.16	5/8	2,539.30	5/8	2,718.43	5/8	2,897.57	5/8	3,076.71	5/8	3,255.84	5/8	3,434.55
3/4	1,826.49	3/4	2,005.63	3/4	2,184.76	3/4	2,363.89	3/4	2,543.04	3/4	2,722.16	3/4	2,901.30	3/4	3,080.44	3/4	3,259.57	3/4	3,438.20
7/8	1,830.22	7/8	2,009.36	7/8	2,188.49	7/8	2,367.63	7/8	2,546.77	7/8	2,725.89	7/8	2,905.03	7/8	3,084.17	7/8	3,263.29	7/8	3,441.85
1	1,833.95	7	2,013.10	1	2,192.21	7	2,371.36	1	2,550.50	7	2,729.62	1	2,908.76	7	3,087.90	1	3,267.02	7	3,445.50
1/8	1,837.68	1/8	2,016.83	1/8	2,195.95	1/8	2,375.09	1/8	2,554.23	1/8	2,733.35	1/8	2,912.49	1/8	3,091.64	1/8	3,270.76	1/8	3,448.98
1/4	1,841.42	1/4	2,020.56	1/4	2,199.68	1/4	2,378.82	1/4	2,557.96	1/4	2,737.08	1/4	2,916.23	1/4	3,095.37	1/4	3,274.49	1/4	3,452.46
3/8	1,845.15	3/8	2,024.29	3/8	2,203.41	3/8	2,382.55	3/8	2,561.70	3/8	2,740.82	3/8	2,919.96	3/8	3,099.10	3/8	3,278.22	3/8	3,455.95
1/2	1,848.88	1/2	2,028.02	1/2	2,207.14	1/2	2,386.29	1/2	2,565.43	1/2	2,744.55	1/2	2,923.69	1/2	3,102.83	1/2	3,281.95	1/2	3,459.43
5/8	1,852.61	5/8	2,031.76	5/8	2,210.88	5/8	2,390.02	5/8	2,569.16	5/8	2,748.28	5/8	2,927.42	5/8	3,106.57	5/8	3,285.68	5/8	3,462.91
3/4	1,856.35	3/4	2,035.49	3/4	2,214.61	3/4	2,393.75	3/4	2,572.89	3/4	2,752.01	3/4	2,931.15	3/4	3,110.30	3/4	3,289.42	3/4	3,466.39
7/8	1,860.08	7/8	2,039.22	7/8	2,218.34	7/8	2,397.48	7/8	2,576.63	7/8	2,755.74	7/8	2,934.89	7/8	3,114.03	7/8	3,293.15	7/8	3,469.88
2	1,863.81	8	2,042.95	2	2,222.07	8	2,401.21	2	2,580.36	8	2,759.48	2	2,938.62	8	3,117.76	2	3,296.88	8	3,473.36
1/8	1,867.54	1/8	2,046.68	1/8	2,225.80	1/8	2,404.95	1/8	2,584.09	1/8	2,763.21	1/8	2,942.35	1/8	3,121.49	1/8	3,300.61	1/8	3,476.67
1/4	1,871.27	1/4	2,050.42	1/4	2,229.54	1/4	2,408.68	1/4	2,587.82	1/4	2,766.94	1/4	2,946.08	1/4	3,125.23	1/4	3,304.35	1/4	3,479.98
3/8	1,875.01	3/8	2,054.15	3/8	2,233.27	3/8	2,412.41	3/8	2,591.55	3/8	2,770.67	3/8	2,949.82	3/8	3,128.96	3/8	3,308.08	3/8	3,483.29
1/2	1,878.74	1/2	2,057.88	1/2	2,237.00	1/2	2,416.14	1/2	2,595.29	1/2	2,774.40	1/2	2,953.55	1/2	3,132.69	1/2	3,311.81	1/2	3,486.60
5/8	1,882.47	5/8	2,061.61	5/8	2,240.73	5/8	2,419.88	5/8	2,599.02	5/8	2,778.14	5/8	2,957.28	5/8	3,136.42	5/8	3,315.54	5/8	3,489.90
3/4	1,886.20	3/4	2,065.35	3/4	2,244.46	3/4	2,423.61	3/4	2,602.75	3/4	2,781.87	3/4	2,961.01	3/4	3,140.15	3/4	3,319.27	3/4	3,493.21
7/8	1,889.93	7/8	2,069.08	7/8	2,248.20	7/8	2,427.34	7/8	2,606.48	7/8	2,785.60	7/8	2,964.74	7/8	3,143.89	7/8	3,323.01	7/8	3,496.52
3	1,893.67	9	2,072.81	3	2,251.93	9	2,431.07	3	2,610.21	9	2,789.33	3	2,968.48	9	3,147.62	3	3,326.74	9	3,499.83
1/8	1,897.40	1/8	2,076.54	1/8	2,255.66	1/8	2,434.80	1/8	2,613.95	1/8	2,793.07	1/8	2,972.21	1/8	3,151.35	1/8	3,330.47	1/8	3,502.97
1/4	1,901.13	1/4	2,080.27	1/4	2,259.39	1/4	2,438.54	1/4	2,617.68	1/4	2,796.80	1/4	2,975.94	1/4	3,155.08	1/4	3,334.20	1/4	3,506.11
3/8	1,904.86	3/8	2,084.01	3/8	2,263.13	3/8	2,442.27	3/8	2,621.41	3/8	2,800.53	3/8	2,979.67	3/8	3,158.82	3/8	3,337.93	3/8	3,509.25
1/2	1,908.60	1/2	2,087.74	1/2	2,266.86	1/2	2,446.00	1/2	2,625.14	1/2	2,804.26	1/2	2,983.40	1/2	3,162.55	1/2	3,341.67	1/2	3,512.39
5/8	1,912.33	5/8	2,091.47	5/8	2,270.59	5/8	2,449.73	5/8	2,628.88	5/8	2,807.99	5/8	2,987.14	5/8	3,166.28	5/8	3,345.40	5/8	3,515.53
3/4	1,916.06	3/4	2,095.20	3/4	2,274.32	3/4	2,453.46	3/4	2,632.61	3/4	2,811.73	3/4	2,990.87	3/4	3,170.01	3/4	3,349.13	3/4	3,518.67
7/8	1,919.79	7/8	2,098.93	7/8	2,278.05	7/8	2,457.20	7/8	2,636.34	7/8	2,815.46	7/8	2,994.60	7/8	3,173.74	7/8	3,352.86	7/8	3,521.81
4	1,923.52	10	2,102.67	4	2,281.79	10	2,460.93	4	2,640.07	10	2,819.19	4	2,998.33	10	3,177.48	4	3,356.60	10	3,524.95
1/8	1,927.26	1/8	2,106.40	1/8	2,285.52	1/8	2,464.66	1/8	2,643.80	1/8	2,822.92	1/8	3,002.07	1/8	3,181.21	1/8	3,360.33	1/8	3,527.92
1/4	1,930.99	1/4	2,110.13	1/4	2,289.25	1/4	2,468.39	1/4	2,647.54	1/4	2,826.65	1/4	3,005.80	1/4	3,184.94	1/4	3,364.06	1/4	3,530.89
3/8	1,934.72	3/8	2,113.86	3/8	2,292.98	3/8	2,472.13	3/8	2,651.27	3/8	2,830.39	3/8	3,009.53	3/8	3,188.67	3/8	3,367.79	3/8	3,533.86
1/2	1,938.45	1/2	2,117.60	1/2	2,296.71	1/2	2,475.86	1/2	2,655.00	1/2	2,834.12	1/2	3,013.26	1/2	3,192.40	1/2	3,371.52	1/2	3,536.83
5/8	1,942.18	5/8	2,121.33	5/8	2,300.45	5/8	2,479.59	5/8	2,658.73	5/8	2,837.85	5/8	3,016.99	5/8	3,196.14	5/8	3,375.26	5/8	3,539.80
3/4	1,945.92	3/4	2,125.06	3/4	2,304.18	3/4	2,483.32	3/4	2,662.46	3/4	2,841.58	3/4	3,020.73	3/4	3,199.87	3/4	3,378.99	3/4	3,542.77
7/8	1,949.65	7/8	2,128.79	7/8	2,307.91	7/8	2,487.05	7/8	2,666.20	7/8	2,845.32	7/8	3,024.46	7/8	3,203.60	7/8	3,382.72	7/8	3,545.74
5	1,953.38	11	2,132.52	5	2,311.64	11	2,490.79	5	2,669.93	11	2,849.05	5	3,028.19	11	3,207.33	5	3,386.45	11	3,548.71
1/8	1,957.11	1/8	2,136.26	1/8	2,315.38	1/8	2,494.52	1/8	2,673.66	1/8	2,852.78	1/8	3,031.92	1/8	3,211.07	1/8	3,390.18	1/8	3,551.51
1/4	1,960.85	1/4	2,139.99	1/4	2,319.11	1/4	2,498.25	1/4	2,677.39	1/4	2,856.51	1/4	3,035.65	1/4	3,214.80	1/4	3,393.92	1/4	3,554.32
3/8	1,964.58	3/8	2,143.72	3/8	2,322.84	3/8	2,501.98	3/8	2,681.13	3/8	2,860.24	3/8	3,039.39	3/8	3,218.53	3/8	3,397.65	3/8	3,557.12
1/2	1,968.31	1/2	2,147.45	1/2	2,326.57	1/2	2,505.71	1/2	2,684.86	1/2	2,863.98	1/2	3,043.12	1/2	3,222.26	1/2	3,401.38	1/2	3,559.92
5/8	1,972.04	5/8	2,151.18	5/8	2,330.30	5/8	2,509.45	5/8	2,688.59	5/8	2,867.71	5/8	3,046.85	5/8	3,225.99	5/8	3,405.11	5/8	3,562.72
3/4	1,975.77	3/4	2,154.92	3/4	2,334.04	3/4	2,513.18	3/4	2,692.32	3/4	2,871.44	3/4	3,050.58	3/4	3,229.73	3/4	3,408.85	3/4	3,565.52
7/8	1,979.51	7/8	2,158.65	7/8	2,337.77	7/8	2,516.91	7/8	2,696.05	7/8	2,875.17	7/8	3,054.32	7/8	3,233.46	7/8	3,412.58	7/8	3,568.32

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 401"

3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/2"

IN	10 FT.	IN	10 FT.	IN	11 FT.	IN	11 FT.	IN	12 FT.	IN	12 FT.	IN	13 FT.	IN	13 FT.	IN	14 FT.	IN	14 FT.
0	3,571.12	6	3,695.76	0	3,820.05	6	3,944.31	0	4,068.57	6	4,192.83	0	4,317.10	6	4,441.36	0	4,565.62	6	4,638.83
1/8	3,573.76	1/8	3,698.35	1/8	3,822.63	1/8	3,946.90	1/8	4,071.16	1/8	4,195.42	1/8	4,319.68	1/8	4,443.95	1/8	4,568.07	1/8	4,639.06
1/4	3,576.39	1/4	3,700.94	1/4	3,825.22	1/4	3,949.48	1/4	4,073.75	1/4	4,198.01	1/4	4,322.27	1/4	4,446.54	1/4	4,570.51	1/4	4,639.29
3/8	3,579.03	3/8	3,703.53	3/8	3,827.81	3/8	3,952.07	3/8	4,076.34	3/8	4,200.60	3/8	4,324.86	3/8	4,449.13	3/8	4,572.96	3/8	4,639.51
1/2	3,581.67	1/2	3,706.12	1/2	3,830.39	1/2	3,954.65	1/2	4,078.93	1/2	4,203.19	1/2	4,327.45	1/2	4,451.71	1/2	4,575.40	1/2	4,639.74
5/8	3,584.30	5/8	3,708.71	5/8	3,832.98	5/8	3,957.24	5/8	4,081.52	5/8	4,205.78	5/8	4,330.04	5/8	4,454.30	5/8	4,577.85	5/8	4,639.96
3/4	3,586.94	3/4	3,711.30	3/4	3,835.57	3/4	3,959.83	3/4	4,084.11	3/4	4,208.37	3/4	4,332.63	3/4	4,456.89	3/4	4,580.30	3/4	4,640.19
7/8	3,589.58	7/8	3,713.89	7/8	3,838.15	7/8	3,962.41	7/8	4,086.70	7/8	4,210.96	7/8	4,335.22	7/8	4,459.48	7/8	4,582.74	7/8	4,640.42
1	3,592.21	7	3,716.48	1	3,840.74	7	3,965.00	1	4,089.29	7	4,213.55	1	4,337.81	7	4,462.07	1	4,585.19	7	4,640.64
1/8	3,594.80	1/8	3,719.07	1/8	3,843.33	1/8	3,967.59	1/8	4,091.87	1/8	4,216.14	1/8	4,340.40	1/8	4,464.66	1/8	4,587.30	1/8	
1/4	3,597.39	1/4	3,721.65	1/4	3,845.92	1/4	3,970.18	1/4	4,094.46	1/4	4,218.73	1/4	4,342.99	1/4	4,467.25	1/4	4,589.40	1/4	
3/8	3,599.98	3/8	3,724.24	3/8	3,848.51	3/8	3,972.77	3/8	4,097.04	3/8	4,221.32	3/8	4,345.58	3/8	4,469.84	3/8	4,591.51	3/8	
1/2	3,602.57	1/2	3,726.83	1/2	3,851.10	1/2	3,975.36	1/2	4,099.63	1/2	4,223.90	1/2	4,348.17	1/2	4,472.43	1/2	4,593.62	1/2	
5/8	3,605.16	5/8	3,729.42	5/8	3,853.68	5/8	3,977.95	5/8	4,102.22	5/8	4,226.49	5/8	4,350.76	5/8	4,475.02	5/8	4,595.73	5/8	
3/4	3,607.75	3/4	3,732.01	3/4	3,856.27	3/4	3,980.54	3/4	4,104.80	3/4	4,229.08	3/4	4,353.35	3/4	4,477.61	3/4	4,597.83	3/4	
7/8	3,610.34	7/8	3,734.60	7/8	3,858.86	7/8	3,983.13	7/8	4,107.39	7/8	4,231.67	7/8	4,355.93	7/8	4,480.20	7/8	4,599.94	7/8	
2	3,612.93	8	3,737.19	2	3,861.45	8	3,985.71	2	4,109.98	8	4,234.26	2	4,358.52	8	4,482.79	2	4,602.05	8	
1/8	3,615.52	1/8	3,739.78	1/8	3,864.04	1/8	3,988.30	1/8	4,112.57	1/8	4,236.85	1/8	4,361.11	1/8	4,485.38	1/8	4,603.77	1/8	
1/4	3,618.11	1/4	3,742.37	1/4	3,866.63	1/4	3,990.89	1/4	4,115.15	1/4	4,239.43	1/4	4,363.70	1/4	4,487.96	1/4	4,605.50	1/4	
3/8	3,620.70	3/8	3,744.96	3/8	3,869.22	3/8	3,993.48	3/8	4,117.74	3/8	4,242.02	3/8	4,366.29	3/8	4,490.55	3/8	4,607.23	3/8	
1/2	3,623.29	1/2	3,747.55	1/2	3,871.81	1/2	3,996.07	1/2	4,120.33	1/2	4,244.61	1/2	4,368.88	1/2	4,493.14	1/2	4,608.95	1/2	
5/8	3,625.88	5/8	3,750.14	5/8	3,874.40	5/8	3,998.66	5/8	4,122.92	5/8	4,247.19	5/8	4,371.47	5/8	4,495.73	5/8	4,610.68	5/8	
3/4	3,628.46	3/4	3,752.73	3/4	3,876.99	3/4	4,001.25	3/4	4,125.51	3/4	4,249.78	3/4	4,374.06	3/4	4,498.32	3/4	4,612.40	3/4	
7/8	3,631.05	7/8	3,755.32	7/8	3,879.58	7/8	4,003.84	7/8	4,128.10	7/8	4,252.37	7/8	4,376.65	7/8	4,500.91	7/8	4,614.13	7/8	
3	3,633.64	9	3,757.90	3	3,882.17	9	4,006.43	3	4,130.69	9	4,254.95	3	4,379.24	9	4,503.50	3	4,615.86	9	
1/8	3,636.23	1/8	3,760.49	1/8	3,884.76	1/8	4,009.02	1/8	4,133.28	1/8	4,257.54	1/8	4,381.82	1/8	4,506.09	1/8	4,617.20	1/8	
1/4	3,638.82	1/4	3,763.08	1/4	3,887.35	1/4	4,011.61	1/4	4,135.87	1/4	4,260.13	1/4	4,384.41	1/4	4,508.67	1/4	4,618.54	1/4	
3/8	3,641.41	3/8	3,765.67	3/8	3,889.93	3/8	4,014.20	3/8	4,138.46	3/8	4,262.72	3/8	4,387.00	3/8	4,511.26	3/8	4,619.88	3/8	
1/2	3,644.00	1/2	3,768.26	1/2	3,892.52	1/2	4,016.79	1/2	4,141.05	1/2	4,265.31	1/2	4,389.58	1/2	4,513.85	1/2	4,621.23	1/2	
5/8	3,646.59	5/8	3,770.85	5/8	3,895.11	5/8	4,019.38	5/8	4,143.64	5/8	4,267.90	5/8	4,392.17	5/8	4,516.43	5/8	4,622.57	5/8	
3/4	3,649.18	3/4	3,773.44	3/4	3,897.70	3/4	4,021.96	3/4	4,146.23	3/4	4,270.49	3/4	4,394.76	3/4	4,519.02	3/4	4,623.91	3/4	
7/8	3,651.77	7/8	3,776.03	7/8	3,900.29	7/8	4,024.55	7/8	4,148.82	7/8	4,273.08	7/8	4,397.34	7/8	4,521.60	7/8	4,625.25	7/8	
4	3,654.36	10	3,778.62	4	3,902.88	10	4,027.14	4	4,151.40	10	4,275.67	4	4,399.93	10	4,524.19	4	4,626.60	10	
1/8	3,656.95	1/8	3,781.21	1/8	3,905.47	1/8	4,029.73	1/8	4,153.99	1/8	4,278.26	1/8	4,402.52	1/8	4,526.78	1/8	4,627.55	1/8	
1/4	3,659.54	1/4	3,783.80	1/4	3,908.06	1/4	4,032.32	1/4	4,156.58	1/4	4,280.85	1/4	4,405.11	1/4	4,529.37	1/4	4,628.51	1/4	
3/8	3,662.13	3/8	3,786.39	3/8	3,910.65	3/8	4,034.91	3/8	4,159.17	3/8	4,283.43	3/8	4,407.70	3/8	4,531.96	3/8	4,629.46	3/8	
1/2	3,664.71	1/2	3,788.98	1/2	3,913.24	1/2	4,037.50	1/2	4,161.76	1/2	4,286.02	1/2	4,410.29	1/2	4,534.55	1/2	4,630.42	1/2	
5/8	3,667.30	5/8	3,791.57	5/8	3,915.83	5/8	4,040.09	5/8	4,164.35	5/8	4,288.61	5/8	4,412.88	5/8	4,537.14	5/8	4,631.37	5/8	
3/4	3,669.89	3/4	3,794.15	3/4	3,918.42	3/4	4,042.68	3/4	4,166.94	3/4	4,291.20	3/4	4,415.46	3/4	4,539.73	3/4	4,632.33	3/4	
7/8	3,672.48	7/8	3,796.74	7/8	3,921.01	7/8	4,045.27	7/8	4,169.53	7/8	4,293.79	7/8	4,418.05	7/8	4,542.32	7/8	4,633.28	7/8	
5	3,675.07	11	3,799.33	5	3,923.60	11	4,047.86	5	4,172.12	11	4,296.38	5	4,420.64	11	4,544.90	5	4,634.24	11	
1/8	3,677.66	1/8	3,801.92	1/8	3,926.18	1/8	4,050.45	1/8	4,174.71	1/8	4,298.97	1/8	4,423.23	1/8	4,547.49	1/8	4,634.81	1/8	
1/4	3,680.24	1/4	3,804.51	1/4	3,928.77	1/4	4,053.04	1/4	4,177.30	1/4	4,301.56	1/4	4,425.82	1/4	4,550.08	1/4	4,635.39	1/4	
3/8	3,682.83	3/8	3,807.10	3/8	3,931.36	3/8	4,055.63	3/8	4,179.89	3/8	4,304.15	3/8	4,428.41	3/8	4,552.67	3/8	4,635.96	3/8	
1/2	3,685.42	1/2	3,809.69	1/2	3,933.95	1/2	4,058.21	1/2	4,182.48	1/2	4,306.74	1/2	4,431.00	1/2	4,555.26	1/2	4,636.54	1/2	
5/8	3,688.00	5/8	3,812.28	5/8	3,936.54	5/8	4,060.80	5/8	4,185.07	5/8	4,309.33	5/8	4,433.59	5/8	4,557.85	5/8	4,637.11	5/8	
3/4	3,690.59	3/4	3,814.87	3/4	3,939.13	3/4	4,063.39	3/4	4,187.65	3/4	4,311.92	3/4	4,436.18	3/4	4,560.44	3/4	4,637.68	3/4	
7/8	3,693.18	7/8	3,817.46	7/8	3,941.72	7/8	4,065.98	7/8	4,190.24	7/8	4,314.51	7/8	4,438.77	7/8	4,563.03	7/8	4,638.26	7/8	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/12/2007 INS
REPRINTED: 12/02/2021 CL

PRECISION MEASUREMENT
& ANALYSIS, INC.

CANCELS AND SUPERCEDES
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