



BARGE "HFL 410"

ULLAGE TRIM TABLE

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

THE CORRECTION FOR 4'-00" TRIM DOWN BY STERN FOR 3 PORT IS - 00-5/8"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 3 PORT, THE TRIM CORRECTED ULLAGE IS 3'-11 3/8"

LENGTH BETWEEN DRAFT MARKS: 242'-09"

February 1, 2019

**PRECISION MEASUREMENT
& ANALYSIS, INC.**

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HFL 410"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-07 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	77,083	0	62,216	0	47,348	0	32,591	0	18,853	0	6,531	0		0		0		0	
1/4	76,773	1/4	61,906	1/4	47,038	1/4	32,291	1/4	18,581	1/4	6,290	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	76,463	1/2	61,596	1/2	46,729	1/2	31,991	1/2	18,309	1/2	6,048	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	76,154	3/4	61,286	3/4	46,419	3/4	31,693	3/4	18,040	3/4	5,809	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	75,844	1	60,977	1	46,109	1	31,396	1	17,771	1	5,570	1	1	1	1	1	1	1	1
1/4	75,534	1/4	60,667	1/4	45,800	1/4	31,098	1/4	17,502	1/4	5,331	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	75,224	1/2	60,357	1/2	45,490	1/2	30,801	1/2	17,233	1/2	5,092	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	74,915	3/4	60,047	3/4	45,180	3/4	30,506	3/4	16,966	3/4	4,856	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	74,605	2	59,738	2	44,870	2	30,211	2	16,699	2	4,620	2	2	2	2	2	2	2	2
1/4	74,295	1/4	59,428	1/4	44,561	1/4	29,916	1/4	16,433	1/4	4,384	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	73,986	1/2	59,118	1/2	44,251	1/2	29,621	1/2	16,166	1/2	4,148	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	73,676	3/4	58,808	3/4	43,941	3/4	29,328	3/4	15,902	3/4	3,915	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	73,366	3	58,499	3	43,631	3	29,035	3	15,638	3	3,682	3	3	3	3	3	3	3	3
1/4	73,056	1/4	58,189	1/4	43,322	1/4	28,743	1/4	15,374	1/4	3,449	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	72,747	1/2	57,879	1/2	43,012	1/2	28,450	1/2	15,109	1/2	3,216	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	72,437	3/4	57,570	3/4	42,702	3/4	28,159	3/4	14,848	3/4	2,986	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	72,127	4	57,260	4	42,392	4	27,868	4	14,586	4	2,756	4	4	4	4	4	4	4	4
1/4	71,817	1/4	56,950	1/4	42,083	1/4	27,578	1/4	14,324	1/4	2,526	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	71,508	1/2	56,640	1/2	41,773	1/2	27,287	1/2	14,062	1/2	2,296	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	71,198	3/4	56,331	3/4	41,464	3/4	26,998	3/4	13,803	3/4	2,070	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	70,888	5	56,021	5	41,155	5	26,709	5	13,543	5	1,844	5	5	5	5	5	5	5	5
1/4	70,578	1/4	55,711	1/4	40,846	1/4	26,421	1/4	13,284	1/4	1,618	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	70,269	1/2	55,401	1/2	40,538	1/2	26,132	1/2	13,025	1/2	1,392	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	69,959	3/4	55,092	3/4	40,230	3/4	25,845	3/4	12,768	3/4	1,188	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	69,649	6	54,782	6	39,923	6	25,558	6	12,511	6	983	6	6	6	6	6	6	6	6
1/4	69,339	1/4	54,472	1/4	39,616	1/4	25,270	1/4	12,254	1/4	779	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	69,030	1/2	54,162	1/2	39,308	1/2	24,983	1/2	11,998	1/2	574	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	68,720	3/4	53,853	3/4	39,001	3/4	24,698	3/4	11,743	3/4	441	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	68,410	7	53,543	7	38,694	7	24,414	7	11,489	7	308	7	7	7	7	7	7	7	7
1/4	68,101	1/4	53,233	1/4	38,386	1/4	24,129	1/4	11,235	1/4	174	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	67,791	1/2	52,923	1/2	38,079	1/2	23,845	1/2	10,981	1/2	41	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	67,481	3/4	52,614	3/4	37,771	3/4	23,563	3/4	10,729	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	67,171	8	52,304	8	37,464	8	23,281	8	10,477	8		8	8	8	8	8	8	8	8
1/4	66,862	1/4	51,994	1/4	37,157	1/4	22,999	1/4	10,226	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	66,552	1/2	51,685	1/2	36,849	1/2	22,717	1/2	9,974	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	66,242	3/4	51,375	3/4	36,543	3/4	22,438	3/4	9,725	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	65,932	9	51,065	9	36,236	9	22,159	9	9,476	9		9	9	9	9	9	9	9	9
1/4	65,623	1/4	50,755	1/4	35,929	1/4	21,879	1/4	9,226	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	65,313	1/2	50,446	1/2	35,622	1/2	21,600	1/2	8,977	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	65,003	3/4	50,136	3/4	35,317	3/4	21,323	3/4	8,731	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	64,693	10	49,826	10	35,012	10	21,047	10	8,484	10		10	10	10	10	10	10	10	10
1/4	64,384	1/4	49,516	1/4	34,707	1/4	20,770	1/4	8,237	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	64,074	1/2	49,207	1/2	34,401	1/2	20,493	1/2	7,991	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	63,764	3/4	48,897	3/4	34,099	3/4	20,219	3/4	7,747	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	63,455	11	48,587	11	33,796	11	19,945	11	7,502	11		11	11	11	11	11	11	11	11
1/4	63,145	1/4	48,277	1/4	33,494	1/4	19,670	1/4	7,258	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	62,835	1/2	47,968	1/2	33,191	1/2	19,396	1/2	7,014	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	62,525	3/4	47,658	3/4	32,891	3/4	19,124	3/4	6,773	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/31/2019 SW
CALCULATED: 02/01/2019 CL
PRINTED: 02/01/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2019

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "HFL 410"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-07 1/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.			
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4	76,698	1/4	61,805	1/4	46,911	1/4	32,092	1/4	18,352	1/4	6,064	1/4		1/4		1/4		1/4		1/4	
1/2	76,388	1/2	61,494	1/2	46,601	1/2	31,792	1/2	18,082	1/2	5,824	1/2		1/2		1/2		1/2		1/2	
3/4	76,078	3/4	61,184	3/4	46,290	3/4	31,492	3/4	17,812	3/4	5,585	3/4		3/4		3/4		3/4		3/4	
1	75,768	1	60,874	1	45,980	1	31,192	1	17,542	1	5,345	1		1		1		1		1	
1/4	75,457	1/4	60,564	1/4	45,670	1/4	30,892	1/4	17,273	1/4	5,106	1/4		1/4		1/4		1/4		1/4	
1/2	75,147	1/2	60,253	1/2	45,359	1/2	30,595	1/2	17,005	1/2	4,869	1/2		1/2		1/2		1/2		1/2	
3/4	74,837	3/4	59,943	3/4	45,049	3/4	30,297	3/4	16,738	3/4	4,633	3/4		3/4		3/4		3/4		3/4	
2	74,526	2	59,633	2	44,739	2	30,000	2	16,471	2	4,396	2		2		2		2		2	
1/4	74,216	1/4	59,322	1/4	44,429	1/4	29,702	1/4	16,204	1/4	4,159	1/4		1/4		1/4		1/4		1/4	
1/2	73,906	1/2	59,012	1/2	44,118	1/2	29,407	1/2	15,939	1/2	3,926	1/2		1/2		1/2		1/2		1/2	
3/4	73,596	3/4	58,702	3/4	43,808	3/4	29,112	3/4	15,674	3/4	3,692	3/4		3/4		3/4		3/4		3/4	
3	73,285	3	58,391	3	43,498	3	28,817	3	15,410	3	3,458	3		3		3		3		3	
1/4	72,975	1/4	58,081	1/4	43,187	1/4	28,522	1/4	15,145	1/4	3,225	1/4		1/4		1/4		1/4		1/4	
1/2	72,665	1/2	57,771	1/2	42,877	1/2	28,229	1/2	14,883	1/2	2,994	1/2		1/2		1/2		1/2		1/2	
3/4	72,354	3/4	57,461	3/4	42,567	3/4	27,936	3/4	14,620	3/4	2,764	3/4		3/4		3/4		3/4		3/4	
4	72,044	4	57,150	4	42,257	4	27,644	4	14,358	4	2,534	4		4		4		4		4	
1/4	71,734	1/4	56,840	1/4	41,946	1/4	27,351	1/4	14,095	1/4	2,303	1/4		1/4		1/4		1/4		1/4	
1/2	71,424	1/2	56,530	1/2	41,636	1/2	27,060	1/2	13,835	1/2	2,077	1/2		1/2		1/2		1/2		1/2	
3/4	71,113	3/4	56,219	3/4	41,326	3/4	26,770	3/4	13,576	3/4	1,850	3/4		3/4		3/4		3/4		3/4	
5	70,803	5	55,909	5	41,016	5	26,480	5	13,316	5	1,623	5		5		5		5		5	
1/4	70,493	1/4	55,599	1/4	40,706	1/4	26,190	1/4	13,056	1/4	1,397	1/4		1/4		1/4		1/4		1/4	
1/2	70,182	1/2	55,289	1/2	40,396	1/2	25,902	1/2	12,799	1/2	1,192	1/2		1/2		1/2		1/2		1/2	
3/4	69,872	3/4	54,978	3/4	40,086	3/4	25,614	3/4	12,541	3/4	987	3/4		3/4		3/4		3/4		3/4	
6	69,562	6	54,668	6	39,777	6	25,326	6	12,284	6	782	6		6		6		6		6	
1/4	69,252	1/4	54,358	1/4	39,467	1/4	25,038	1/4	12,027	1/4	577	1/4		1/4		1/4		1/4		1/4	
1/2	68,941	1/2	54,047	1/2	39,157	1/2	24,753	1/2	11,772	1/2	443	1/2		1/2		1/2		1/2		1/2	
3/4	68,631	3/4	53,737	3/4	38,847	3/4	24,468	3/4	11,517	3/4	309	3/4		3/4		3/4		3/4		3/4	
7	68,321	7	53,427	7	38,538	7	24,183	7	11,262	7	176	7		7		7		7		7	
1/4	68,010	1/4	53,117	1/4	38,228	1/4	23,898	1/4	11,007	1/4	42	1/4		1/4		1/4		1/4		1/4	
1/2	67,700	1/2	52,806	1/2	37,918	1/2	23,616	1/2	10,755	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	67,390	3/4	52,496	3/4	37,608	3/4	23,333	3/4	10,503	3/4		3/4		3/4		3/4		3/4		3/4	
8	67,080	8	52,186	8	37,299	8	23,051	8	10,251	8		8		8		8		8		8	
1/4	66,769	1/4	51,875	1/4	36,989	1/4	22,768	1/4	9,998	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	66,459	1/2	51,565	1/2	36,680	1/2	22,489	1/2	9,749	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	66,149	3/4	51,255	3/4	36,370	3/4	22,209	3/4	9,499	3/4		3/4		3/4		3/4		3/4		3/4	
9	65,838	9	50,945	9	36,061	9	21,929	9	9,249	9		9		9		9		9		9	
1/4	65,528	1/4	50,634	1/4	35,752	1/4	21,649	1/4	9,000	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	65,218	1/2	50,324	1/2	35,444	1/2	21,372	1/2	8,752	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	64,908	3/4	50,014	3/4	35,137	3/4	21,094	3/4	8,505	3/4		3/4		3/4		3/4		3/4		3/4	
10	64,597	10	49,703	10	34,829	10	20,817	10	8,258	10		10		10		10		10		10	
1/4	64,287	1/4	49,393	1/4	34,522	1/4	20,540	1/4	8,011	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	63,977	1/2	49,083	1/2	34,217	1/2	20,265	1/2	7,766	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	63,666	3/4	48,773	3/4	33,912	3/4	19,990	3/4	7,521	3/4		3/4		3/4		3/4		3/4		3/4	
11	63,356	11	48,462	11	33,607	11	19,715	11	7,277	11		11		11		11		11		11	
1/4	63,046	1/4	48,152	1/4	33,302	1/4	19,441	1/4	7,032	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	62,736	1/2	47,842	1/2	32,999	1/2	19,168	1/2	6,790	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	62,425	3/4	47,531	3/4	32,697	3/4	18,896	3/4	6,548	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/31/2019 SW
CALCULATED: 02/01/2019 CL
PRINTED: 02/01/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2019

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BARGE "HFL 410"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-07 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	82,316	0	67,526	0	52,737	0	37,948	0	23,698	0	9,082	0		0		0		0	
1/4	82,007	1/4	67,218	1/4	52,429	1/4	37,639	1/4	23,405	1/4	8,774	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	81,699	1/2	66,910	1/2	52,121	1/2	37,331	1/2	23,112	1/2	8,466	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	81,391	3/4	66,602	3/4	51,813	3/4	37,023	3/4	22,819	3/4	8,158	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	81,083	1	66,294	1	51,504	1	36,715	1	22,526	1	7,850	1	1	1	1	1	1	1	1
1/4	80,775	1/4	65,986	1/4	51,196	1/4	36,407	1/4	22,233	1/4	7,542	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	80,467	1/2	65,678	1/2	50,888	1/2	36,099	1/2	21,940	1/2	7,234	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	80,159	3/4	65,369	3/4	50,580	3/4	35,791	3/4	21,646	3/4	6,927	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	79,851	2	65,061	2	50,272	2	35,483	2	21,353	2	6,619	2	2	2	2	2	2	2	2
1/4	79,543	1/4	64,753	1/4	49,964	1/4	35,175	1/4	21,060	1/4	6,311	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	79,234	1/2	64,445	1/2	49,656	1/2	34,872	1/2	20,762	1/2	6,004	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	78,926	3/4	64,137	3/4	49,348	3/4	34,569	3/4	20,463	3/4	5,696	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	78,618	3	63,829	3	49,040	3	34,266	3	20,164	3	5,389	3	3	3	3	3	3	3	3
1/4	78,310	1/4	63,521	1/4	48,731	1/4	33,963	1/4	19,866	1/4	5,082	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	78,002	1/2	63,213	1/2	48,423	1/2	33,669	1/2	19,558	1/2	4,775	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	77,694	3/4	62,905	3/4	48,115	3/4	33,375	3/4	19,250	3/4	4,469	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	77,386	4	62,596	4	47,807	4	33,081	4	18,941	4	4,162	4	4	4	4	4	4	4	4
1/4	77,078	1/4	62,288	1/4	47,499	1/4	32,787	1/4	18,633	1/4	3,856	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	76,770	1/2	61,980	1/2	47,191	1/2	32,493	1/2	18,325	1/2	3,550	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	76,461	3/4	61,672	3/4	46,883	3/4	32,199	3/4	18,017	3/4	3,245	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	76,153	5	61,364	5	46,575	5	31,905	5	17,709	5	2,940	5	5	5	5	5	5	5	5
1/4	75,845	1/4	61,056	1/4	46,267	1/4	31,611	1/4	17,401	1/4	2,635	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	75,537	1/2	60,748	1/2	45,958	1/2	31,318	1/2	17,093	1/2	2,348	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	75,229	3/4	60,440	3/4	45,650	3/4	31,025	3/4	16,785	3/4	2,062	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	74,921	6	60,132	6	45,342	6	30,731	6	16,477	6	1,776	6	6	6	6	6	6	6	6
1/4	74,613	1/4	59,823	1/4	45,034	1/4	30,438	1/4	16,169	1/4	1,489	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	74,305	1/2	59,515	1/2	44,726	1/2	30,145	1/2	15,860	1/2	1,271	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	73,997	3/4	59,207	3/4	44,418	3/4	29,852	3/4	15,552	3/4	1,053	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	73,688	7	58,899	7	44,110	7	29,558	7	15,244	7	835	7	7	7	7	7	7	7	7
1/4	73,380	1/4	58,591	1/4	43,802	1/4	29,265	1/4	14,936	1/4	617	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	73,072	1/2	58,283	1/2	43,494	1/2	28,972	1/2	14,628	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	72,764	3/4	57,975	3/4	43,185	3/4	28,679	3/4	14,320	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	72,456	8	57,667	8	42,877	8	28,386	8	14,012	8		8	8	8	8	8	8	8	8
1/4	72,148	1/4	57,359	1/4	42,569	1/4	28,093	1/4	13,704	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	71,840	1/2	57,050	1/2	42,261	1/2	27,800	1/2	13,396	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	71,532	3/4	56,742	3/4	41,953	3/4	27,507	3/4	13,088	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	71,224	9	56,434	9	41,645	9	27,214	9	12,779	9		9	9	9	9	9	9	9	9
1/4	70,915	1/4	56,126	1/4	41,337	1/4	26,921	1/4	12,471	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	70,607	1/2	55,818	1/2	41,029	1/2	26,628	1/2	12,163	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	70,299	3/4	55,510	3/4	40,721	3/4	26,335	3/4	11,855	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	69,991	10	55,202	10	40,412	10	26,042	10	11,547	10		10	10	10	10	10	10	10	10
1/4	69,683	1/4	54,894	1/4	40,104	1/4	25,749	1/4	11,239	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	69,375	1/2	54,586	1/2	39,796	1/2	25,456	1/2	10,931	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	69,067	3/4	54,277	3/4	39,488	3/4	25,163	3/4	10,623	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	68,759	11	53,969	11	39,180	11	24,870	11	10,315	11		11	11	11	11	11	11	11	11
1/4	68,451	1/4	53,661	1/4	38,872	1/4	24,577	1/4	10,006	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	68,142	1/2	53,353	1/2	38,564	1/2	24,284	1/2	9,698	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	67,834	3/4	53,045	3/4	38,256	3/4	23,991	3/4	9,390	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/31/2019 SW
CALCULATED: 02/01/2019 CL
PRINTED: 02/01/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2019

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



BARGE "HFL 410"

**2 STBD
ULLAGE TABLE**

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-07 1/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
	83,038		68,242		53,445		38,649		23,873		9,087								
1/4	82,730	1/4	67,933	1/4	53,137	1/4	38,340	1/4	23,566	1/4	8,778	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	82,422	1/2	67,625	1/2	52,829	1/2	38,032	1/2	23,258	1/2	8,470	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	82,114	3/4	67,317	3/4	52,520	3/4	37,724	3/4	22,951	3/4	8,162	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	81,805	1	67,009	1	52,212	1	37,415	1	22,644	1	7,854	1	1	1	1	1	1	1	1
1/4	81,497	1/4	66,700	1/4	51,904	1/4	37,107	1/4	22,336	1/4	7,546	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	81,189	1/2	66,392	1/2	51,596	1/2	36,799	1/2	22,029	1/2	7,238	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	80,881	3/4	66,084	3/4	51,287	3/4	36,491	3/4	21,721	3/4	6,930	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	80,572	2	65,776	2	50,979	2	36,182	2	21,414	2	6,622	2	2	2	2	2	2	2	2
1/4	80,264	1/4	65,467	1/4	50,671	1/4	35,874	1/4	21,106	1/4	6,314	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	79,956	1/2	65,159	1/2	50,362	1/2	35,566	1/2	20,799	1/2	6,007	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	79,647	3/4	64,851	3/4	50,054	3/4	35,258	3/4	20,491	3/4	5,699	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	79,339	3	64,543	3	49,746	3	34,949	3	20,183	3	5,392	3	3	3	3	3	3	3	3
1/4	79,031	1/4	64,234	1/4	49,438	1/4	34,641	1/4	19,876	1/4	5,084	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	78,723	1/2	63,926	1/2	49,129	1/2	34,333	1/2	19,567	1/2	4,777	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	78,414	3/4	63,618	3/4	48,821	3/4	34,025	3/4	19,259	3/4	4,471	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	78,106	4	63,310	4	48,513	4	33,716	4	18,951	4	4,164	4	4	4	4	4	4	4	4
1/4	77,798	1/4	63,001	1/4	48,205	1/4	33,408	1/4	18,643	1/4	3,858	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	77,490	1/2	62,693	1/2	47,896	1/2	33,100	1/2	18,334	1/2	3,552	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	77,181	3/4	62,385	3/4	47,588	3/4	32,792	3/4	18,026	3/4	3,247	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	76,873	5	62,076	5	47,280	5	32,484	5	17,718	5	2,941	5	5	5	5	5	5	5	5
1/4	76,565	1/4	61,768	1/4	46,972	1/4	32,176	1/4	17,410	1/4	2,636	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	76,257	1/2	61,460	1/2	46,663	1/2	31,868	1/2	17,101	1/2	2,349	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	75,948	3/4	61,152	3/4	46,355	3/4	31,560	3/4	16,793	3/4	2,063	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	75,640	6	60,843	6	46,047	6	31,253	6	16,485	6	1,776	6	6	6	6	6	6	6	6
1/4	75,332	1/4	60,535	1/4	45,739	1/4	30,945	1/4	16,176	1/4	1,490	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	75,024	1/2	60,227	1/2	45,430	1/2	30,637	1/2	15,868	1/2	1,272	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	74,715	3/4	59,919	3/4	45,122	3/4	30,330	3/4	15,560	3/4	1,054	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	74,407	7	59,610	7	44,814	7	30,022	7	15,252	7	835	7	7	7	7	7	7	7	7
1/4	74,099	1/4	59,302	1/4	44,505	1/4	29,714	1/4	14,943	1/4	617	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	73,790	1/2	58,994	1/2	44,197	1/2	29,407	1/2	14,635	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	73,482	3/4	58,686	3/4	43,889	3/4	29,100	3/4	14,327	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	73,174	8	58,377	8	43,581	8	28,792	8	14,019	8		8	8	8	8	8	8	8	8
1/4	72,866	1/4	58,069	1/4	43,272	1/4	28,485	1/4	13,710	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	72,557	1/2	57,761	1/2	42,964	1/2	28,177	1/2	13,402	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	72,249	3/4	57,453	3/4	42,656	3/4	27,870	3/4	13,094	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	71,941	9	57,144	9	42,348	9	27,562	9	12,786	9		9	9	9	9	9	9	9	9
1/4	71,633	1/4	56,836	1/4	42,039	1/4	27,255	1/4	12,477	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	71,324	1/2	56,528	1/2	41,731	1/2	26,948	1/2	12,169	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	71,016	3/4	56,219	3/4	41,423	3/4	26,640	3/4	11,861	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	70,708	10	55,911	10	41,115	10	26,333	10	11,553	10		10	10	10	10	10	10	10	10
1/4	70,400	1/4	55,603	1/4	40,806	1/4	26,025	1/4	11,244	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	70,091	1/2	55,295	1/2	40,498	1/2	25,718	1/2	10,936	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	69,783	3/4	54,986	3/4	40,190	3/4	25,410	3/4	10,628	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	69,475	11	54,678	11	39,882	11	25,103	11	10,320	11		11	11	11	11	11	11	11	11
1/4	69,167	1/4	54,370	1/4	39,573	1/4	24,796	1/4	10,011	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	68,858	1/2	54,062	1/2	39,265	1/2	24,488	1/2	9,703	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	68,550	3/4	53,753	3/4	38,957	3/4	24,181	3/4	9,395	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/31/2019 SW
CALCULATED: 02/01/2019 CL
PRINTED: 02/01/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2019

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



BARGE "HFL 410"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-07 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4		1/4		1/4	209,222	1/4	197,675	1/4	186,363	1/4	175,051	1/4	162,256	1/4	145,274	1/4	128,313	1/4	111,346
1/2		1/2		1/2	208,751	1/2	197,439	1/2	186,128	1/2	174,816	1/2	161,901	1/2	144,921	1/2	127,959	1/2	110,992
3/4		3/4		3/4	208,516	3/4	197,204	3/4	185,892	3/4	174,580	3/4	161,547	3/4	144,568	3/4	127,606	3/4	110,640
1	1	1	1	1	208,280	1	196,968	1	185,656	1	174,344	1	161,193	1	144,214	1	127,253	1	110,287
1/4		1/4		1/4	208,044	1/4	196,732	1/4	185,421	1/4	174,109	1/4	160,838	1/4	143,861	1/4	126,899	1/4	109,934
1/2		1/2		1/2	207,809	1/2	196,497	1/2	185,185	1/2	173,873	1/2	160,484	1/2	143,508	1/2	126,546	1/2	109,581
3/4		3/4		3/4	207,573	3/4	196,261	3/4	184,949	3/4	173,637	3/4	160,130	3/4	143,154	3/4	126,192	3/4	109,230
2	2	2	2	2	207,337	2	196,025	2	184,714	2	173,402	2	159,775	2	142,801	2	125,839	2	108,879
1/4		1/4		1/4	207,102	1/4	195,790	1/4	184,478	1/4	173,166	1/4	159,421	1/4	142,447	1/4	125,486	1/4	108,528
1/2		1/2		1/2	206,866	1/2	195,554	1/2	184,242	1/2	172,930	1/2	159,066	1/2	142,094	1/2	125,132	1/2	108,177
3/4		3/4		3/4	206,630	3/4	195,318	3/4	184,007	3/4	172,695	3/4	158,712	3/4	141,741	3/4	124,779	3/4	107,826
3	3	3	3	3	206,395	3	195,083	3	183,771	3	172,459	3	158,358	3	141,387	3	124,426	3	107,475
1/4		1/4		1/4	206,159	1/4	194,847	1/4	183,535	1/4	172,223	1/4	158,003	1/4	141,034	1/4	124,072	1/4	107,124
1/2		1/2		1/2	216,524	1/2	205,923	1/2	194,611	1/2	183,300	1/2	171,988	1/2	157,649	1/2	140,681	1/2	123,719
3/4		3/4		3/4	216,404	3/4	205,688	3/4	194,376	3/4	183,064	3/4	171,752	3/4	157,295	3/4	140,327	3/4	123,365
4	4	4	4	4	216,283	4	205,452	4	194,140	4	182,828	4	171,516	4	156,940	4	139,974	4	123,012
1/4		1/4		1/4	216,163	1/4	205,216	1/4	193,904	1/4	182,593	1/4	171,281	1/4	156,586	1/4	139,620	1/4	122,659
1/2		1/2		1/2	216,042	1/2	204,981	1/2	193,669	1/2	182,357	1/2	171,045	1/2	156,231	1/2	139,267	1/2	122,305
3/4		3/4		3/4	215,855	3/4	204,745	3/4	193,433	3/4	182,121	3/4	170,809	3/4	155,877	3/4	138,914	3/4	121,952
5	5	5	5	5	215,668	5	204,509	5	193,197	5	181,886	5	170,574	5	155,523	5	138,560	5	121,599
1/4		1/4		1/4	215,481	1/4	204,274	1/4	192,962	1/4	181,650	1/4	170,338	1/4	155,169	1/4	138,207	1/4	121,245
1/2		1/2		1/2	215,295	1/2	204,038	1/2	192,726	1/2	181,414	1/2	170,102	1/2	154,815	1/2	137,854	1/2	120,892
3/4		3/4		3/4	215,067	3/4	203,802	3/4	192,490	3/4	181,179	3/4	169,867	3/4	154,462	3/4	137,500	3/4	120,538
6	6	6	6	6	214,840	6	203,567	6	192,255	6	180,943	6	169,631	6	154,109	6	137,147	6	120,185
1/4		1/4		1/4	214,613	1/4	203,331	1/4	192,019	1/4	180,707	1/4	169,396	1/4	153,755	1/4	136,794	1/4	119,832
1/2		1/2		1/2	214,386	1/2	203,095	1/2	191,783	1/2	180,472	1/2	169,160	1/2	153,402	1/2	136,440	1/2	119,478
3/4		3/4		3/4	214,153	3/4	202,860	3/4	191,548	3/4	180,236	3/4	168,924	3/4	153,049	3/4	136,087	3/4	119,125
7	7	7	7	7	213,920	7	202,624	7	191,312	7	180,000	7	168,689	7	152,695	7	135,733	7	118,772
1/4		1/4		1/4	213,687	1/4	202,388	1/4	191,076	1/4	179,765	1/4	168,453	1/4	152,342	1/4	135,380	1/4	118,418
1/2		1/2		1/2	213,454	1/2	202,153	1/2	190,841	1/2	179,529	1/2	168,217	1/2	151,988	1/2	135,027	1/2	118,065
3/4		3/4		3/4	213,220	3/4	201,917	3/4	190,605	3/4	179,293	3/4	167,982	3/4	151,635	3/4	134,673	3/4	117,712
8	8	8	8	8	212,986	8	201,681	8	190,369	8	179,058	8	167,746	8	151,282	8	134,320	8	117,358
1/4		1/4		1/4	212,752	1/4	201,446	1/4	190,134	1/4	178,822	1/4	167,510	1/4	150,928	1/4	133,967	1/4	117,005
1/2		1/2		1/2	212,517	1/2	201,210	1/2	189,898	1/2	178,586	1/2	167,275	1/2	150,575	1/2	133,613	1/2	116,651
3/4		3/4		3/4	212,283	3/4	200,974	3/4	189,662	3/4	178,351	3/4	166,994	3/4	150,222	3/4	133,260	3/4	116,298
9	9	9	9	9	212,048	9	200,739	9	189,427	9	178,115	9	166,714	9	149,868	9	132,906	9	115,944
1/4		1/4		1/4	211,813	1/4	200,503	1/4	189,191	1/4	177,879	1/4	166,434	1/4	149,515	1/4	132,553	1/4	115,591
1/2		1/2		1/2	211,578	1/2	200,267	1/2	188,956	1/2	177,644	1/2	166,154	1/2	149,161	1/2	132,200	1/2	115,237
3/4		3/4		3/4	211,342	3/4	200,032	3/4	188,720	3/4	177,408	3/4	165,799	3/4	148,808	3/4	131,846	3/4	114,884
10	10	10	10	10	211,107	10	199,796	10	188,484	10	177,172	10	165,445	10	148,455	10	131,493	10	114,530
1/4		1/4		1/4	210,872	1/4	199,560	1/4	188,249	1/4	176,937	1/4	165,091	1/4	148,101	1/4	131,140	1/4	114,176
1/2		1/2		1/2	210,636	1/2	199,325	1/2	188,013	1/2	176,701	1/2	164,736	1/2	147,748	1/2	130,786	1/2	113,822
3/4		3/4		3/4	210,401	3/4	199,089	3/4	187,777	3/4	176,465	3/4	164,382	3/4	147,395	3/4	130,433	3/4	113,469
11	11	11	11	11	210,165	11	198,853	11	187,542	11	176,230	11	164,028	11	147,041	11	130,079	11	113,115
1/4		1/4		1/4	209,929	1/4	198,618	1/4	187,306	1/4	175,994	1/4	163,673	1/4	146,688	1/4	129,726	1/4	112,761
1/2		1/2		1/2	209,694	1/2	198,382	1/2	187,070	1/2	175,758	1/2	163,319	1/2	146,335	1/2	129,373	1/2	112,407
3/4		3/4		3/4	209,458	3/4	198,146	3/4	186,835	3/4	175,523	3/4	162,964	3/4	145,981	3/4	129,019	3/4	112,054

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK

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

GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 55'-00" FORWARD OF AFT BULKHEAD

**PRECISION MEASUREMENT
& ANALYSIS, INC.**

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





BARGE "HFL 410"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-07 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	94,840	0	77,948	0	61,149	0	44,212	0	27,616	0	10,777	0		0		0		0	
1/4	94,489	1/4	77,599	1/4	60,796	1/4	43,859	1/4	27,273	1/4	10,426	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	94,138	1/2	77,250	1/2	60,443	1/2	43,506	1/2	26,930	1/2	10,075	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	93,786	3/4	76,901	3/4	60,090	3/4	43,153	3/4	26,587	3/4	9,723	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	93,434	1	76,552	1	59,738	1	42,801	1	26,245	1	9,371	1	1	1	1	1	1	1	1
1/4	93,082	1/4	76,203	1/4	59,385	1/4	42,448	1/4	25,902	1/4	9,019	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	92,730	1/2	75,854	1/2	59,032	1/2	42,095	1/2	25,559	1/2	8,666	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	92,377	3/4	75,505	3/4	58,679	3/4	41,742	3/4	25,216	3/4	8,313	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	92,024	2	75,156	2	58,326	2	41,389	2	24,873	2	7,960	2	2	2	2	2	2	2	2
1/4	91,671	1/4	74,806	1/4	57,973	1/4	41,036	1/4	24,530	1/4	7,606	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	91,318	1/2	74,457	1/2	57,621	1/2	40,683	1/2	24,187	1/2	7,253	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	90,965	3/4	74,108	3/4	57,268	3/4	40,334	3/4	23,840	3/4	6,899	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	90,612	3	73,759	3	56,915	3	39,984	3	23,493	3	6,546	3	3	3	3	3	3	3	3
1/4	90,259	1/4	73,410	1/4	56,562	1/4	39,635	1/4	23,146	1/4	6,193	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	89,906	1/2	73,061	1/2	56,209	1/2	39,285	1/2	22,799	1/2	5,840	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	89,553	3/4	72,712	3/4	55,856	3/4	38,942	3/4	22,445	3/4	5,487	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	89,200	4	72,363	4	55,503	4	38,598	4	22,091	4	5,135	4	4	4	4	4	4	4	4
1/4	88,846	1/4	72,014	1/4	55,151	1/4	38,254	1/4	21,737	1/4	4,782	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	88,493	1/2	71,665	1/2	54,798	1/2	37,910	1/2	21,383	1/2	4,430	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	88,140	3/4	71,316	3/4	54,445	3/4	37,566	3/4	21,029	3/4	4,079	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	87,787	5	70,967	5	54,092	5	37,222	5	20,675	5	3,728	5	5	5	5	5	5	5	5
1/4	87,434	1/4	70,618	1/4	53,739	1/4	36,879	1/4	20,322	1/4	3,377	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	87,081	1/2	70,269	1/2	53,386	1/2	36,535	1/2	19,968	1/2	3,026	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	86,728	3/4	69,920	3/4	53,033	3/4	36,192	3/4	19,614	3/4	2,696	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	86,375	6	69,571	6	52,681	6	35,848	6	19,260	6	2,367	6	6	6	6	6	6	6	6
1/4	86,022	1/4	69,222	1/4	52,328	1/4	35,505	1/4	18,906	1/4	2,038	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	85,669	1/2	68,873	1/2	51,975	1/2	35,162	1/2	18,552	1/2	1,709	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	85,316	3/4	68,523	3/4	51,622	3/4	34,819	3/4	18,198	3/4	1,458	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	84,963	7	68,174	7	51,269	7	34,476	7	17,845	7	1,207	7	7	7	7	7	7	7	7
1/4	84,610	1/4	67,825	1/4	50,916	1/4	34,133	1/4	17,491	1/4	956	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	84,257	1/2	67,476	1/2	50,563	1/2	33,789	1/2	17,137	1/2	705	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	83,904	3/4	67,127	3/4	50,211	3/4	33,446	3/4	16,783	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	83,551	8	66,778	8	49,858	8	33,103	8	16,429	8		8	8	8	8	8	8	8	8
1/4	83,198	1/4	66,429	1/4	49,505	1/4	32,761	1/4	16,075	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	82,845	1/2	66,080	1/2	49,152	1/2	32,418	1/2	15,721	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	82,493	3/4	65,729	3/4	48,799	3/4	32,075	3/4	15,367	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	82,142	9	65,379	9	48,446	9	31,732	9	15,014	9		9	9	9	9	9	9	9	9
1/4	81,790	1/4	65,028	1/4	48,093	1/4	31,389	1/4	14,660	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	81,438	1/2	64,678	1/2	47,741	1/2	31,046	1/2	14,306	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	81,089	3/4	64,325	3/4	47,388	3/4	30,703	3/4	13,952	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	80,740	10	63,972	10	47,035	10	30,360	10	13,598	10		10	10	10	10	10	10	10	10
1/4	80,391	1/4	63,619	1/4	46,682	1/4	30,017	1/4	13,244	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	80,042	1/2	63,266	1/2	46,329	1/2	29,674	1/2	12,890	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	79,693	3/4	62,913	3/4	45,976	3/4	29,331	3/4	12,538	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	79,344	11	62,560	11	45,623	11	28,988	11	12,185	11		11	11	11	11	11	11	11	11
1/4	78,995	1/4	62,208	1/4	45,271	1/4	28,645	1/4	11,832	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	78,646	1/2	61,855	1/2	44,918	1/2	28,302	1/2	11,479	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	78,297	3/4	61,502	3/4	44,565	3/4	27,959	3/4	11,128	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/31/2019 SW
CALCULATED: 02/01/2019 CL
PRINTED: 02/01/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2019

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



BARGE "HFL 410"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-07 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	210,341	0	199,038	0	187,735	0	176,432	0	163,764	0	146,763	0	129,762	0	112,761
1/4		1/4		1/4	210,106	1/4	198,803	1/4	187,500	1/4	176,197	1/4	163,410	1/4	146,409	1/4	129,408	1/4	112,407
1/2		1/2		1/2	209,870	1/2	198,567	1/2	187,264	1/2	175,961	1/2	163,056	1/2	146,055	1/2	129,054	1/2	112,053
3/4		3/4		3/4	209,635	3/4	198,332	3/4	187,029	3/4	175,726	3/4	162,702	3/4	145,701	3/4	128,700	3/4	111,699
1		1		1	209,399	1	198,096	1	186,793	1	175,491	1	162,348	1	145,347	1	128,346	1	111,345
1/4		1/4		1/4	209,164	1/4	197,861	1/4	186,558	1/4	175,255	1/4	161,993	1/4	144,992	1/4	127,992	1/4	110,991
1/2		1/2		1/2	208,928	1/2	197,625	1/2	186,322	1/2	175,020	1/2	161,639	1/2	144,638	1/2	127,637	1/2	110,636
3/4		3/4		3/4	208,693	3/4	197,390	3/4	186,087	3/4	174,784	3/4	161,285	3/4	144,284	3/4	127,283	3/4	110,282
2		2		2	208,457	2	197,154	2	185,852	2	174,549	2	160,931	2	143,930	2	126,929	2	109,928
1/4		1/4		1/4	208,222	1/4	196,919	1/4	185,616	1/4	174,313	1/4	160,577	1/4	143,576	1/4	126,575	1/4	109,574
1/2		1/2		1/2	207,986	1/2	196,683	1/2	185,381	1/2	174,078	1/2	160,222	1/2	143,222	1/2	126,221	1/2	109,220
3/4		3/4		3/4	207,751	3/4	196,448	3/4	185,145	3/4	173,842	3/4	159,868	3/4	142,867	3/4	125,866	3/4	108,865
3		3		3	207,515	3	196,213	3	184,910	3	173,607	3	159,514	3	142,513	3	125,512	3	108,511
1/4		1/4		1/4	207,280	1/4	195,977	1/4	184,674	1/4	173,371	1/4	159,160	1/4	142,159	1/4	125,158	1/4	108,157
1/2		1/2		1/2	217,637	1/2	207,044	1/2	195,742	1/2	184,439	1/2	173,136	1/2	158,806	1/2	141,805	1/2	124,804
3/4		3/4		3/4	217,517	3/4	206,809	3/4	195,506	3/4	184,203	3/4	172,900	3/4	158,452	3/4	141,451	3/4	124,450
4		4		4	217,396	4	206,574	4	195,271	4	183,968	4	172,665	4	158,097	4	141,096	4	124,095
1/4		1/4		1/4	217,276	1/4	206,338	1/4	195,035	1/4	183,732	1/4	172,429	1/4	157,743	1/4	140,742	1/4	123,741
1/2		1/2		1/2	217,156	1/2	206,103	1/2	194,800	1/2	183,497	1/2	172,194	1/2	157,389	1/2	140,388	1/2	123,387
3/4		3/4		3/4	216,969	3/4	205,867	3/4	194,564	3/4	183,261	3/4	171,958	3/4	157,035	3/4	140,034	3/4	123,033
5		5		5	216,782	5	205,632	5	194,329	5	183,026	5	171,723	5	156,681	5	139,680	5	122,679
1/4		1/4		1/4	216,595	1/4	205,396	1/4	194,093	1/4	182,790	1/4	171,487	1/4	156,326	1/4	139,325	1/4	122,325
1/2		1/2		1/2	216,408	1/2	205,161	1/2	193,858	1/2	182,555	1/2	171,252	1/2	155,972	1/2	138,971	1/2	121,970
3/4		3/4		3/4	216,181	3/4	204,925	3/4	193,622	3/4	182,319	3/4	171,016	3/4	155,618	3/4	138,617	3/4	121,616
6		6		6	215,954	6	204,690	6	193,387	6	182,084	6	170,781	6	155,264	6	138,263	6	121,262
1/4		1/4		1/4	215,727	1/4	204,454	1/4	193,151	1/4	181,848	1/4	170,546	1/4	154,910	1/4	137,909	1/4	120,908
1/2		1/2		1/2	215,501	1/2	204,219	1/2	192,916	1/2	181,613	1/2	170,310	1/2	154,556	1/2	137,555	1/2	120,554
3/4		3/4		3/4	215,268	3/4	203,983	3/4	192,680	3/4	181,377	3/4	170,075	3/4	154,201	3/4	137,200	3/4	120,199
7		7		7	215,035	7	203,748	7	192,445	7	181,142	7	169,839	7	153,847	7	136,846	7	119,845
1/4		1/4		1/4	214,802	1/4	203,512	1/4	192,209	1/4	180,907	1/4	169,604	1/4	153,493	1/4	136,492	1/4	119,491
1/2		1/2		1/2	214,569	1/2	203,277	1/2	191,974	1/2	180,671	1/2	169,368	1/2	153,139	1/2	136,138	1/2	119,137
3/4		3/4		3/4	214,335	3/4	203,041	3/4	191,738	3/4	180,436	3/4	169,133	3/4	152,785	3/4	135,784	3/4	118,783
8		8		8	214,101	8	202,806	8	191,503	8	180,200	8	168,897	8	152,430	8	135,429	8	118,428
1/4		1/4		1/4	213,867	1/4	202,570	1/4	191,268	1/4	179,965	1/4	168,662	1/4	152,076	1/4	135,075	1/4	118,074
1/2		1/2		1/2	213,633	1/2	202,335	1/2	191,032	1/2	179,729	1/2	168,426	1/2	151,722	1/2	134,721	1/2	117,720
3/4		3/4		3/4	213,399	3/4	202,099	3/4	190,797	3/4	179,494	3/4	168,146	3/4	151,368	3/4	134,367	3/4	117,366
9		9		9	213,164	9	201,864	9	190,561	9	179,258	9	167,866	9	151,014	9	134,013	9	117,012
1/4		1/4		1/4	212,929	1/4	201,628	1/4	190,326	1/4	179,023	1/4	167,586	1/4	150,659	1/4	133,659	1/4	116,658
1/2		1/2		1/2	212,695	1/2	201,393	1/2	190,090	1/2	178,787	1/2	167,306	1/2	150,305	1/2	133,304	1/2	116,303
3/4		3/4		3/4	212,459	3/4	201,158	3/4	189,855	3/4	178,552	3/4	166,952	3/4	149,951	3/4	132,950	3/4	115,949
10		10		10	212,224	10	200,922	10	189,619	10	178,316	10	166,598	10	149,597	10	132,596	10	115,595
1/4		1/4		1/4	211,989	1/4	200,687	1/4	189,384	1/4	178,081	1/4	166,244	1/4	149,243	1/4	132,242	1/4	115,241
1/2		1/2		1/2	211,754	1/2	200,451	1/2	189,148	1/2	177,845	1/2	165,889	1/2	148,889	1/2	131,888	1/2	114,887
3/4		3/4		3/4	211,518	3/4	200,216	3/4	188,913	3/4	177,610	3/4	165,535	3/4	148,534	3/4	131,533	3/4	114,532
11		11		11	211,283	11	199,980	11	188,677	11	177,374	11	165,181	11	148,180	11	131,179	11	114,178
1/4		1/4		1/4	211,048	1/4	199,745	1/4	188,442	1/4	177,139	1/4	164,827	1/4	147,826	1/4	130,825	1/4	113,824
1/2		1/2		1/2	210,812	1/2	199,509	1/2	188,206	1/2	176,903	1/2	164,473	1/2	147,472	1/2	130,471	1/2	113,470
3/4		3/4		3/4	210,577	3/4	199,274	3/4	187,971	3/4	176,668	3/4	164,119	3/4	147,118	3/4	130,117	3/4	113,116

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" DIAMETER "HERMETIC" VALVE
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 55'-00" FORWARD OF AFT BULKHEAD

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



BARGE "HFL 410"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-07 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	95,761	0	78,760	0	61,759	0	44,758	0	27,780	0	10,791	0		0		0		0	
1/4	95,406	1/4	78,405	1/4	61,404	1/4	44,403	1/4	27,426	1/4	10,437	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	95,052	1/2	78,051	1/2	61,050	1/2	44,049	1/2	27,073	1/2	10,082	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	94,698	3/4	77,697	3/4	60,696	3/4	43,695	3/4	26,720	3/4	9,728	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	94,344	1	77,343	1	60,342	1	43,341	1	26,367	1	9,374	1	1	1	1	1	1	1	1
1/4	93,990	1/4	76,989	1/4	59,988	1/4	42,987	1/4	26,013	1/4	9,020	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	93,635	1/2	76,634	1/2	59,634	1/2	42,633	1/2	25,660	1/2	8,666	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	93,281	3/4	76,280	3/4	59,279	3/4	42,278	3/4	25,307	3/4	8,312	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	92,927	2	75,926	2	58,925	2	41,924	2	24,954	2	7,958	2	2	2	2	2	2	2	2
1/4	92,573	1/4	75,572	1/4	58,571	1/4	41,570	1/4	24,600	1/4	7,605	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	92,219	1/2	75,218	1/2	58,217	1/2	41,216	1/2	24,247	1/2	7,251	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	91,864	3/4	74,864	3/4	57,863	3/4	40,862	3/4	23,894	3/4	6,898	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	91,510	3	74,509	3	57,508	3	40,507	3	23,540	3	6,544	3	3	3	3	3	3	3	3
1/4	91,156	1/4	74,155	1/4	57,154	1/4	40,153	1/4	23,186	1/4	6,191	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	90,802	1/2	73,801	1/2	56,800	1/2	39,799	1/2	22,833	1/2	5,838	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	90,448	3/4	73,447	3/4	56,446	3/4	39,445	3/4	22,479	3/4	5,486	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	90,094	4	73,093	4	56,092	4	39,091	4	22,124	4	5,133	4	4	4	4	4	4	4	4
1/4	89,739	1/4	72,738	1/4	55,737	1/4	38,736	1/4	21,770	1/4	4,781	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	89,385	1/2	72,384	1/2	55,383	1/2	38,382	1/2	21,416	1/2	4,428	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	89,031	3/4	72,030	3/4	55,029	3/4	38,028	3/4	21,062	3/4	4,077	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	88,677	5	71,676	5	54,675	5	37,674	5	20,708	5	3,727	5	5	5	5	5	5	5	5
1/4	88,323	1/4	71,322	1/4	54,321	1/4	37,320	1/4	20,353	1/4	3,376	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	87,968	1/2	70,967	1/2	53,967	1/2	36,966	1/2	19,999	1/2	3,025	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	87,614	3/4	70,613	3/4	53,612	3/4	36,613	3/4	19,645	3/4	2,696	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	87,260	6	70,259	6	53,258	6	36,259	6	19,291	6	2,366	6	6	6	6	6	6	6	6
1/4	86,906	1/4	69,905	1/4	52,904	1/4	35,906	1/4	18,937	1/4	2,037	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	86,552	1/2	69,551	1/2	52,550	1/2	35,552	1/2	18,583	1/2	1,708	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	86,197	3/4	69,197	3/4	52,196	3/4	35,199	3/4	18,228	3/4	1,457	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	85,843	7	68,842	7	51,841	7	34,845	7	17,874	7	1,207	7	7	7	7	7	7	7	7
1/4	85,489	1/4	68,488	1/4	51,487	1/4	34,492	1/4	17,520	1/4	956	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	85,135	1/2	68,134	1/2	51,133	1/2	34,138	1/2	17,166	1/2	705	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	84,781	3/4	67,780	3/4	50,779	3/4	33,785	3/4	16,812	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	84,427	8	67,426	8	50,425	8	33,432	8	16,458	8		8	8	8	8	8	8	8	8
1/4	84,072	1/4	67,071	1/4	50,070	1/4	33,079	1/4	16,103	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	83,718	1/2	66,717	1/2	49,716	1/2	32,725	1/2	15,749	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	83,364	3/4	66,363	3/4	49,362	3/4	32,372	3/4	15,395	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	83,010	9	66,009	9	49,008	9	32,019	9	15,041	9		9	9	9	9	9	9	9	9
1/4	82,656	1/4	65,655	1/4	48,654	1/4	31,666	1/4	14,687	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	82,301	1/2	65,300	1/2	48,300	1/2	31,312	1/2	14,332	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	81,947	3/4	64,946	3/4	47,945	3/4	30,959	3/4	13,978	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	81,593	10	64,592	10	47,591	10	30,606	10	13,624	10		10	10	10	10	10	10	10	10
1/4	81,239	1/4	64,238	1/4	47,237	1/4	30,253	1/4	13,270	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	80,885	1/2	63,884	1/2	46,883	1/2	29,899	1/2	12,916	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	80,531	3/4	63,530	3/4	46,529	3/4	29,546	3/4	12,562	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	80,176	11	63,175	11	46,174	11	29,193	11	12,207	11		11	11	11	11	11	11	11	11
1/4	79,822	1/4	62,821	1/4	45,820	1/4	28,840	1/4	11,853	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	79,468	1/2	62,467	1/2	45,466	1/2	28,486	1/2	11,499	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	79,114	3/4	62,113	3/4	45,112	3/4	28,133	3/4	11,145	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/31/2019 SW
CALCULATED: 02/01/2019 CL
PRINTED: 02/01/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2019

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "HFL 410"

PORT SLOP ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 5'-11"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	4,456	0	3,319	0	2,181	0	1,043	0		0		0		0	
1/4		1/4		1/4	4,433	1/4	3,295	1/4	2,157	1/4	1,019	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,409	1/2	3,271	1/2	2,133	1/2	996	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,385	3/4	3,247	3/4	2,110	3/4	972	3/4		3/4		3/4		3/4	
1		1		1	4,361	1	3,224	1	2,086	1	948	1		1		1		1	
1/4		1/4		1/4	4,338	1/4	3,200	1/4	2,062	1/4	924	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,314	1/2	3,176	1/2	2,039	1/2	901	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,290	3/4	3,153	3/4	2,015	3/4	877	3/4		3/4		3/4		3/4	
2		2		2	4,267	2	3,129	2	1,991	2	853	2		2		2		2	
1/4		1/4		1/4	4,243	1/4	3,105	1/4	1,967	1/4	830	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,219	1/2	3,081	1/2	1,944	1/2	806	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,196	3/4	3,058	3/4	1,920	3/4	782	3/4		3/4		3/4		3/4	
3		3		3	4,172	3	3,034	3	1,896	3	759	3		3		3		3	
1/4		1/4		1/4	4,148	1/4	3,010	1/4	1,873	1/4	735	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	5,262	1/2	4,124	1/2	2,987	1/2	1,849	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	5,239	3/4	4,101	3/4	2,963	3/4	1,825	3/4		3/4		3/4		3/4	
4		4		4	5,215	4	4,077	4	2,939	4	1,801	4		4		4		4	
1/4		1/4		1/4	5,191	1/4	4,053	1/4	2,916	1/4	1,778	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	5,167	1/2	4,030	1/2	2,892	1/2	1,754	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	5,144	3/4	4,006	3/4	2,868	3/4	1,730	3/4		3/4		3/4		3/4	
5		5		5	5,120	5	3,982	5	2,844	5	1,707	5		5		5		5	
1/4		1/4		1/4	5,096	1/4	3,959	1/4	2,821	1/4	1,683	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	5,073	1/2	3,935	1/2	2,797	1/2	1,659	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	5,049	3/4	3,911	3/4	2,773	3/4	1,636	3/4		3/4		3/4		3/4	
6		6		6	5,025	6	3,887	6	2,750	6	1,612	6		6		6		6	
1/4		1/4		1/4	5,002	1/4	3,864	1/4	2,726	1/4	1,588	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,978	1/2	3,840	1/2	2,702	1/2	1,564	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,954	3/4	3,816	3/4	2,679	3/4	1,541	3/4		3/4		3/4		3/4	
7		7		7	4,930	7	3,793	7	2,655	7	1,517	7		7		7		7	
1/4		1/4		1/4	4,907	1/4	3,769	1/4	2,631	1/4	1,493	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,883	1/2	3,745	1/2	2,607	1/2	1,470	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,859	3/4	3,721	3/4	2,584	3/4	1,446	3/4		3/4		3/4		3/4	
8		8		8	4,836	8	3,698	8	2,560	8	1,422	8		8		8		8	
1/4		1/4		1/4	4,812	1/4	3,674	1/4	2,536	1/4	1,399	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,788	1/2	3,650	1/2	2,513	1/2	1,375	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,764	3/4	3,627	3/4	2,489	3/4	1,351	3/4		3/4		3/4		3/4	
9		9		9	4,741	9	3,603	9	2,465	9	1,327	9		9		9		9	
1/4		1/4		1/4	4,717	1/4	3,579	1/4	2,441	1/4	1,304	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,693	1/2	3,556	1/2	2,418	1/2	1,280	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,670	3/4	3,532	3/4	2,394	3/4	1,256	3/4		3/4		3/4		3/4	
10		10		10	4,646	10	3,508	10	2,370	10	1,233	10		10		10		10	
1/4		1/4		1/4	4,622	1/4	3,484	1/4	2,347	1/4	1,209	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,599	1/2	3,461	1/2	2,323	1/2	1,185	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,575	3/4	3,437	3/4	2,299	3/4	1,161	3/4		3/4		3/4		3/4	
11		11		11	4,551	11	3,413	11	2,276	11	1,138	11		11		11		11	
1/4		1/4		1/4	4,527	1/4	3,390	1/4	2,252	1/4	1,114	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,504	1/2	3,366	1/2	2,228	1/2	1,090	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,480	3/4	3,342	3/4	2,204	3/4	1,067	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" HERMETIC VALVE

STRAPPED: 01/31/2019 SW
CALCULATED: 02/01/2019 CL
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CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2019

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "HFL 410"

STBD SLOP ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 5'-11"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	4,456	0	3,319	0	2,181	0	1,043	0		0		0		0	
1/4		1/4		1/4	4,433	1/4	3,295	1/4	2,157	1/4	1,019	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,409	1/2	3,271	1/2	2,133	1/2	996	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,385	3/4	3,247	3/4	2,110	3/4	972	3/4		3/4		3/4		3/4	
1		1		1	4,361	1	3,224	1	2,086	1	948	1		1		1		1	
1/4		1/4		1/4	4,338	1/4	3,200	1/4	2,062	1/4	924	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,314	1/2	3,176	1/2	2,039	1/2	901	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,290	3/4	3,153	3/4	2,015	3/4	877	3/4		3/4		3/4		3/4	
2		2		2	4,267	2	3,129	2	1,991	2	853	2		2		2		2	
1/4		1/4		1/4	4,243	1/4	3,105	1/4	1,967	1/4	830	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,219	1/2	3,081	1/2	1,944	1/2	806	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,196	3/4	3,058	3/4	1,920	3/4	782	3/4		3/4		3/4		3/4	
3		3		3	4,172	3	3,034	3	1,896	3	759	3		3		3		3	
1/4		1/4		1/4	4,148	1/4	3,010	1/4	1,873	1/4	735	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	5,262	1/2	4,124	1/2	2,987	1/2	1,849	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	5,239	3/4	4,101	3/4	2,963	3/4	1,825	3/4		3/4		3/4		3/4	
4		4		4	5,215	4	4,077	4	2,939	4	1,801	4		4		4		4	
1/4		1/4		1/4	5,191	1/4	4,053	1/4	2,916	1/4	1,778	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	5,167	1/2	4,030	1/2	2,892	1/2	1,754	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	5,144	3/4	4,006	3/4	2,868	3/4	1,730	3/4		3/4		3/4		3/4	
5		5		5	5,120	5	3,982	5	2,844	5	1,707	5		5		5		5	
1/4		1/4		1/4	5,096	1/4	3,959	1/4	2,821	1/4	1,683	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	5,073	1/2	3,935	1/2	2,797	1/2	1,659	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	5,049	3/4	3,911	3/4	2,773	3/4	1,636	3/4		3/4		3/4		3/4	
6		6		6	5,025	6	3,887	6	2,750	6	1,612	6		6		6		6	
1/4		1/4		1/4	5,002	1/4	3,864	1/4	2,726	1/4	1,588	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,978	1/2	3,840	1/2	2,702	1/2	1,564	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,954	3/4	3,816	3/4	2,679	3/4	1,541	3/4		3/4		3/4		3/4	
7		7		7	4,930	7	3,793	7	2,655	7	1,517	7		7		7		7	
1/4		1/4		1/4	4,907	1/4	3,769	1/4	2,631	1/4	1,493	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,883	1/2	3,745	1/2	2,607	1/2	1,470	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,859	3/4	3,721	3/4	2,584	3/4	1,446	3/4		3/4		3/4		3/4	
8		8		8	4,836	8	3,698	8	2,560	8	1,422	8		8		8		8	
1/4		1/4		1/4	4,812	1/4	3,674	1/4	2,536	1/4	1,399	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,788	1/2	3,650	1/2	2,513	1/2	1,375	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,764	3/4	3,627	3/4	2,489	3/4	1,351	3/4		3/4		3/4		3/4	
9		9		9	4,741	9	3,603	9	2,465	9	1,327	9		9		9		9	
1/4		1/4		1/4	4,717	1/4	3,579	1/4	2,441	1/4	1,304	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,693	1/2	3,556	1/2	2,418	1/2	1,280	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,670	3/4	3,532	3/4	2,394	3/4	1,256	3/4		3/4		3/4		3/4	
10		10		10	4,646	10	3,508	10	2,370	10	1,233	10		10		10		10	
1/4		1/4		1/4	4,622	1/4	3,484	1/4	2,347	1/4	1,209	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,599	1/2	3,461	1/2	2,323	1/2	1,185	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,575	3/4	3,437	3/4	2,299	3/4	1,161	3/4		3/4		3/4		3/4	
11		11		11	4,551	11	3,413	11	2,276	11	1,138	11		11		11		11	
1/4		1/4		1/4	4,527	1/4	3,390	1/4	2,252	1/4	1,114	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,504	1/2	3,366	1/2	2,228	1/2	1,090	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,480	3/4	3,342	3/4	2,204	3/4	1,067	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" HERMETIC VALVE

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CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2019



BARGE "HFL 410"

FUEL TANK ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 4'-04 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0	492	0	340	0	167	0	25	0		0		0		0		0	
1/4		1/4	489	1/4	336	1/4	164	1/4	23	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	487	1/2	333	1/2	160	1/2	21	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	484	3/4	329	3/4	157	3/4	19	3/4		3/4		3/4		3/4		3/4	
1		1	481	1	325	1	153	1	17	1		1		1		1		1	
1/4		1/4	479	1/4	322	1/4	150	1/4	15	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	476	1/2	318	1/2	147	1/2	13	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	473	3/4	315	3/4	143	3/4	11	3/4		3/4		3/4		3/4		3/4	
2		2	470	2	311	2	140	2	10	2		2		2		2		2	
1/4		1/4	467	1/4	307	1/4	136	1/4	8	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	465	1/2	304	1/2	133	1/2	7	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	462	3/4	300	3/4	130	3/4	5	3/4		3/4		3/4		3/4		3/4	
3		3	459	3	297	3	126	3	4	3		3		3		3		3	
1/4		1/4	456	1/4	293	1/4	123	1/4	3	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	453	1/2	289	1/2	120	1/2	2	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	450	3/4	286	3/4	117	3/4	1	3/4		3/4		3/4		3/4		3/4	
4		4	447	4	282	4	114	4	1	4		4		4		4		4	
1/4		1/4	444	1/4	278	1/4	110	1/4	0	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	441	1/2	275	1/2	107	1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4	438	3/4	271	3/4	104	3/4		3/4		3/4		3/4		3/4		3/4	
5		5	434	5	267	5	101	5		5		5		5		5		5	
1/4		1/4	431	1/4	264	1/4	98	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	537	1/2	428	1/2	260	1/2	95	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	536	3/4	425	3/4	257	3/4	92	3/4		3/4		3/4		3/4		3/4		3/4	
6		6	422	6	253	6	89	6		6		6		6		6		6	
1/4	535	1/4	419	1/4	249	1/4	86	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	534	1/2	415	1/2	246	1/2	83	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	533	3/4	412	3/4	242	3/4	80	3/4		3/4		3/4		3/4		3/4		3/4	
7		7	409	7	238	7	77	7		7		7		7		7		7	
1/4	530	1/4	405	1/4	235	1/4	74	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	529	1/2	402	1/2	231	1/2	71	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	527	3/4	399	3/4	227	3/4	68	3/4		3/4		3/4		3/4		3/4		3/4	
8		8	395	8	224	8	65	8		8		8		8		8		8	
1/4	524	1/4	392	1/4	220	1/4	62	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	522	1/2	389	1/2	217	1/2	59	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	520	3/4	385	3/4	213	3/4	57	3/4		3/4		3/4		3/4		3/4		3/4	
9		9	382	9	209	9	54	9		9		9		9		9		9	
1/4	517	1/4	378	1/4	206	1/4	51	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	515	1/2	375	1/2	202	1/2	49	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	512	3/4	371	3/4	199	3/4	46	3/4		3/4		3/4		3/4		3/4		3/4	
10		10	368	10	195	10	44	10		10		10		10		10		10	
1/4	508	1/4	364	1/4	192	1/4	41	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	506	1/2	361	1/2	188	1/2	39	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	504	3/4	357	3/4	185	3/4	36	3/4		3/4		3/4		3/4		3/4		3/4	
11		11	354	11	181	11	34	11		11		11		11		11		11	
1/4	499	1/4	350	1/4	178	1/4	31	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	497	1/2	347	1/2	174	1/2	29	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	494	3/4	343	3/4	171	3/4	27	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OPPOSITE HINGE OF 8" HATCH

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