



BARGE "HFL 435"

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	00-1/8	- 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	00-0/8	- 00-0/8	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	00-0/8	- 00-0/8	00-0/8	- 00-0/8	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	00-0/8	- 00-0/8	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	00-0/8	- 00-0/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

THE CORRECTION FOR 3'-00" TRIM DOWN BY STERN FOR 3 PORT IS - 00-0/8"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 3 PORT, THE TRIM CORRECTED ULLAGE IS 4'-00"

LENGTH BETWEEN DRAFT MARKS: 238'-06"

October 27, 2015

PRECISION MEASUREMENT
 & ANALYSIS, INC.

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HFL 435"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-09 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	188,623	0	178,322	0	168,021	0	157,686	0	147,103	0	132,518	0	117,566	0	102,607
1/4		1/4		1/4	188,408	1/4	178,107	1/4	167,806	1/4	157,470	1/4	146,840	1/4	132,207	1/4	117,254	1/4	102,295
1/2		1/2		1/2	188,193	1/2	177,893	1/2	167,591	1/2	157,255	1/2	146,578	1/2	131,895	1/2	116,943	1/2	101,983
3/4		3/4		3/4	187,979	3/4	177,678	3/4	167,376	3/4	157,040	3/4	146,315	3/4	131,584	3/4	116,631	3/4	101,671
1		1		1	187,764	1	177,463	1	167,161	1	156,824	1	146,037	1	131,272	1	116,320	1	101,359
1/4		1/4		1/4	187,549	1/4	177,249	1/4	166,946	1/4	156,609	1/4	145,758	1/4	130,961	1/4	116,008	1/4	101,047
1/2		1/2		1/2	187,335	1/2	177,034	1/2	166,730	1/2	156,394	1/2	145,480	1/2	130,649	1/2	115,697	1/2	100,735
3/4		3/4		3/4	187,120	3/4	176,820	3/4	166,515	3/4	156,178	3/4	145,201	3/4	130,338	3/4	115,385	3/4	100,423
2		2		2	186,905	2	176,605	2	166,300	2	155,963	2	144,907	2	130,026	2	115,074	2	100,111
1/4		1/4		1/4	186,691	1/4	176,390	1/4	166,084	1/4	155,748	1/4	144,613	1/4	129,715	1/4	114,762	1/4	99,799
1/2		1/2		1/2	186,476	1/2	176,176	1/2	165,869	1/2	155,532	1/2	144,318	1/2	129,403	1/2	114,451	1/2	99,487
3/4		3/4		3/4	186,261	3/4	175,961	3/4	165,653	3/4	155,317	3/4	144,024	3/4	129,092	3/4	114,139	3/4	99,175
3		3		3	186,047	3	175,747	3	165,438	3	155,102	3	143,717	3	128,780	3	113,828	3	98,863
1/4		1/4		1/4	185,832	1/4	175,532	1/4	165,223	1/4	154,886	1/4	143,410	1/4	128,469	1/4	113,516	1/4	98,552
1/2		1/2		1/2	185,618	1/2	175,317	1/2	165,007	1/2	154,671	1/2	143,103	1/2	128,157	1/2	113,205	1/2	98,240
3/4		3/4		3/4	185,403	3/4	175,103	3/4	164,792	3/4	154,456	3/4	142,797	3/4	127,846	3/4	112,893	3/4	97,928
4		4		4	185,188	4	174,888	4	164,577	4	154,240	4	142,485	4	127,534	4	112,582	4	97,616
1/4		1/4		1/4	184,974	1/4	174,674	1/4	164,361	1/4	154,025	1/4	142,174	1/4	127,223	1/4	112,270	1/4	97,304
1/2		1/2		1/2	184,759	1/2	174,459	1/2	164,146	1/2	153,809	1/2	141,863	1/2	126,911	1/2	111,959	1/2	96,992
3/4		3/4		3/4	184,545	3/4	174,245	3/4	163,931	3/4	153,594	3/4	141,552	3/4	126,600	3/4	111,647	3/4	96,680
5		5		5	184,330	5	174,030	5	163,715	5	153,379	5	141,240	5	126,288	5	111,336	5	96,368
1/4		1/4		1/4	184,116	1/4	173,815	1/4	163,500	1/4	153,163	1/4	140,929	1/4	125,977	1/4	111,024	1/4	96,056
1/2		1/2		1/2	183,901	1/2	173,601	1/2	163,285	1/2	152,948	1/2	140,617	1/2	125,665	1/2	110,713	1/2	95,744
3/4		3/4		3/4	183,686	3/4	173,386	3/4	163,069	3/4	152,733	3/4	140,306	3/4	125,354	3/4	110,401	3/4	95,432
6		6		6	183,472	6	173,172	6	162,854	6	152,517	6	139,994	6	125,042	6	110,090	6	95,120
1/4		1/4		1/4	183,257	1/4	172,957	1/4	162,639	1/4	152,302	1/4	139,683	1/4	124,731	1/4	109,778	1/4	94,809
1/2		1/2		1/2	183,043	1/2	172,742	1/2	162,423	1/2	152,087	1/2	139,371	1/2	124,419	1/2	109,467	1/2	94,497
3/4		3/4		3/4	192,438	3/4	182,828	3/4	172,528	3/4	162,208	3/4	151,871	3/4	139,060	3/4	124,108	3/4	109,155
7		7		7	192,315	7	182,613	7	172,313	7	161,993	7	151,656	7	138,748	7	123,796	7	108,843
1/4		1/4		1/4	192,192	1/4	182,399	1/4	172,099	1/4	161,777	1/4	151,441	1/4	138,437	1/4	123,485	1/4	108,532
1/2		1/2		1/2	192,069	1/2	182,184	1/2	171,884	1/2	161,562	1/2	151,225	1/2	138,125	1/2	123,173	1/2	108,220
3/4		3/4		3/4	191,945	3/4	181,970	3/4	171,670	3/4	161,347	3/4	151,010	3/4	137,814	3/4	122,862	3/4	107,909
8		8		8	191,786	8	181,755	8	171,455	8	161,131	8	150,795	8	137,502	8	122,550	8	107,597
1/4		1/4		1/4	191,627	1/4	181,541	1/4	171,240	1/4	160,916	1/4	150,579	1/4	137,191	1/4	122,239	1/4	107,285
1/2		1/2		1/2	191,468	1/2	181,326	1/2	171,026	1/2	160,701	1/2	150,364	1/2	136,879	1/2	121,927	1/2	106,973
3/4		3/4		3/4	191,309	3/4	181,111	3/4	170,811	3/4	160,485	3/4	150,149	3/4	136,568	3/4	121,616	3/4	106,662
9		9		9	191,116	9	180,897	9	170,597	9	160,270	9	149,930	9	136,256	9	121,304	9	106,350
1/4		1/4		1/4	190,924	1/4	180,682	1/4	170,382	1/4	160,055	1/4	149,711	1/4	135,945	1/4	120,993	1/4	106,038
1/2		1/2		1/2	190,731	1/2	180,468	1/2	170,167	1/2	159,839	1/2	149,492	1/2	135,633	1/2	120,681	1/2	105,726
3/4		3/4		3/4	190,539	3/4	180,253	3/4	169,953	3/4	159,624	3/4	149,273	3/4	135,322	3/4	120,370	3/4	105,414
10		10		10	190,328	10	180,038	10	169,738	10	159,408	10	149,043	10	135,010	10	120,058	10	105,102
1/4		1/4		1/4	190,117	1/4	179,824	1/4	169,524	1/4	159,193	1/4	148,812	1/4	134,699	1/4	119,747	1/4	104,790
1/2		1/2		1/2	189,906	1/2	179,609	1/2	169,309	1/2	158,978	1/2	148,582	1/2	134,387	1/2	119,435	1/2	104,478
3/4		3/4		3/4	189,695	3/4	179,395	3/4	169,094	3/4	158,762	3/4	148,351	3/4	134,076	3/4	119,123	3/4	104,166
11		11		11	189,480	11	179,180	11	168,880	11	158,547	11	148,105	11	133,764	11	118,812	11	103,854
1/4		1/4		1/4	189,266	1/4	178,965	1/4	168,665	1/4	158,332	1/4	147,858	1/4	133,453	1/4	118,500	1/4	103,542
1/2		1/2		1/2	189,052	1/2	178,751	1/2	168,451	1/2	158,116	1/2	147,612	1/2	133,141	1/2	118,189	1/2	103,230
3/4		3/4		3/4	188,837	3/4	178,536	3/4	168,236	3/4	157,901	3/4	147,365	3/4	132,830	3/4	117,877	3/4	102,918

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" "HERMETIC" VALVE
GAUGE POINT: (HERMETIC) LOCATED 10'-09" OFF CENTERLINE AND 43'-0" FORWARD OF AFT BULKHEAD

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3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-09 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	87,634	0	72,662	0	57,690	0	42,723	0	27,763	0	12,792	0		0		0		0	
1/4	87,322	1/4	72,350	1/4	57,378	1/4	42,412	1/4	27,452	1/4	12,480	1/4		1/4		1/4		1/4	
1/2	87,010	1/2	72,038	1/2	57,066	1/2	42,100	1/2	27,140	1/2	12,168	1/2		1/2		1/2		1/2	
3/4	86,699	3/4	71,726	3/4	56,754	3/4	41,789	3/4	26,828	3/4	11,856	3/4		3/4		3/4		3/4	
1	86,387	1	71,414	1	56,442	1	41,477	1	26,516	1	11,544	1		1		1		1	
1/4	86,075	1/4	71,102	1/4	56,130	1/4	41,166	1/4	26,204	1/4	11,232	1/4		1/4		1/4		1/4	
1/2	85,763	1/2	70,791	1/2	55,818	1/2	40,855	1/2	25,892	1/2	10,920	1/2		1/2		1/2		1/2	
3/4	85,451	3/4	70,479	3/4	55,506	3/4	40,543	3/4	25,580	3/4	10,608	3/4		3/4		3/4		3/4	
2	85,139	2	70,167	2	55,194	2	40,232	2	25,268	2	10,296	2		2		2		2	
1/4	84,827	1/4	69,855	1/4	54,883	1/4	39,920	1/4	24,956	1/4	9,984	1/4		1/4		1/4		1/4	
1/2	84,515	1/2	69,543	1/2	54,571	1/2	39,609	1/2	24,644	1/2	9,673	1/2		1/2		1/2		1/2	
3/4	84,203	3/4	69,231	3/4	54,259	3/4	39,297	3/4	24,332	3/4	9,361	3/4		3/4		3/4		3/4	
3	83,891	3	68,919	3	53,947	3	38,986	3	24,021	3	9,049	3		3		3		3	
1/4	83,579	1/4	68,607	1/4	53,635	1/4	38,675	1/4	23,709	1/4	8,737	1/4		1/4		1/4		1/4	
1/2	83,267	1/2	68,295	1/2	53,323	1/2	38,363	1/2	23,397	1/2	8,425	1/2		1/2		1/2		1/2	
3/4	82,955	3/4	67,983	3/4	53,011	3/4	38,052	3/4	23,085	3/4	8,113	3/4		3/4		3/4		3/4	
4	82,644	4	67,671	4	52,699	4	37,740	4	22,773	4	7,801	4		4		4		4	
1/4	82,332	1/4	67,359	1/4	52,387	1/4	37,429	1/4	22,461	1/4	7,489	1/4		1/4		1/4		1/4	
1/2	82,020	1/2	67,047	1/2	52,075	1/2	37,117	1/2	22,149	1/2	7,177	1/2		1/2		1/2		1/2	
3/4	81,708	3/4	66,736	3/4	51,763	3/4	36,806	3/4	21,837	3/4	6,865	3/4		3/4		3/4		3/4	
5	81,396	5	66,424	5	51,451	5	36,495	5	21,525	5	6,553	5		5		5		5	
1/4	81,084	1/4	66,112	1/4	51,139	1/4	36,183	1/4	21,213	1/4	6,242	1/4		1/4		1/4		1/4	
1/2	80,772	1/2	65,800	1/2	50,828	1/2	35,872	1/2	20,901	1/2	5,930	1/2		1/2		1/2		1/2	
3/4	80,460	3/4	65,488	3/4	50,516	3/4	35,560	3/4	20,590	3/4	5,618	3/4		3/4		3/4		3/4	
6	80,148	6	65,176	6	50,204	6	35,249	6	20,278	6	5,306	6		6		6		6	
1/4	79,836	1/4	64,864	1/4	49,892	1/4	34,937	1/4	19,966	1/4	4,994	1/4		1/4		1/4		1/4	
1/2	79,524	1/2	64,552	1/2	49,580	1/2	34,625	1/2	19,654	1/2	4,683	1/2		1/2		1/2		1/2	
3/4	79,212	3/4	64,240	3/4	49,268	3/4	34,314	3/4	19,342	3/4	4,371	3/4		3/4		3/4		3/4	
7	78,901	7	63,928	7	48,956	7	34,002	7	19,030	7	4,060	7		7		7		7	
1/4	78,589	1/4	63,616	1/4	48,644	1/4	33,690	1/4	18,718	1/4	3,749	1/4		1/4		1/4		1/4	
1/2	78,277	1/2	63,304	1/2	48,332	1/2	33,378	1/2	18,406	1/2	3,438	1/2		1/2		1/2		1/2	
3/4	77,965	3/4	62,992	3/4	48,020	3/4	33,066	3/4	18,094	3/4	3,127	3/4		3/4		3/4		3/4	
8	77,653	8	62,681	8	47,708	8	32,754	8	17,782	8	2,836	8		8		8		8	
1/4	77,341	1/4	62,369	1/4	47,397	1/4	32,442	1/4	17,470	1/4	2,544	1/4		1/4		1/4		1/4	
1/2	77,029	1/2	62,057	1/2	47,085	1/2	32,130	1/2	17,158	1/2	2,253	1/2		1/2		1/2		1/2	
3/4	76,717	3/4	61,745	3/4	46,773	3/4	31,818	3/4	16,847	3/4	1,961	3/4		3/4		3/4		3/4	
9	76,405	9	61,433	9	46,461	9	31,506	9	16,535	9	1,727	9		9		9		9	
1/4	76,093	1/4	61,121	1/4	46,150	1/4	31,195	1/4	16,223	1/4	1,493	1/4		1/4		1/4		1/4	
1/2	75,781	1/2	60,809	1/2	45,838	1/2	30,883	1/2	15,911	1/2	1,259	1/2		1/2		1/2		1/2	
3/4	75,469	3/4	60,497	3/4	45,526	3/4	30,571	3/4	15,599	3/4	1,025	3/4		3/4		3/4		3/4	
10	75,157	10	60,185	10	45,215	10	30,259	10	15,287	10		10		10		10		10	
1/4	74,846	1/4	59,873	1/4	44,903	1/4	29,947	1/4	14,975	1/4		1/4		1/4		1/4		1/4	
1/2	74,534	1/2	59,561	1/2	44,592	1/2	29,635	1/2	14,663	1/2		1/2		1/2		1/2		1/2	
3/4	74,222	3/4	59,249	3/4	44,280	3/4	29,323	3/4	14,351	3/4		3/4		3/4		3/4		3/4	
11	73,910	11	58,938	11	43,969	11	29,011	11	14,039	11		11		11		11		11	
1/4	73,598	1/4	58,626	1/4	43,657	1/4	28,699	1/4	13,727	1/4		1/4		1/4		1/4		1/4	
1/2	73,286	1/2	58,314	1/2	43,346	1/2	28,387	1/2	13,416	1/2		1/2		1/2		1/2		1/2	
3/4	72,974	3/4	58,002	3/4	43,035	3/4	28,075	3/4	13,104	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/27/2015 CL
CALCULATED: 10/27/2015 CL
PRINTED: 10/27/2015 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2015

PRECISION MEASUREMENT
& ANALYSIS, INC.
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3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-09 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	187,520	0	177,223	0	166,926	0	156,595	0	146,017	0	131,470	0	116,557	0	101,636
1/4		1/4		1/4	187,305	1/4	177,008	1/4	166,711	1/4	156,380	1/4	145,755	1/4	131,160	1/4	116,246	1/4	101,325
1/2		1/2		1/2	187,091	1/2	176,794	1/2	166,496	1/2	156,164	1/2	145,493	1/2	130,849	1/2	115,935	1/2	101,014
3/4		3/4		3/4	186,876	3/4	176,579	3/4	166,282	3/4	155,949	3/4	145,231	3/4	130,538	3/4	115,625	3/4	100,703
1		1		1	186,661	1	176,365	1	166,066	1	155,734	1	144,953	1	130,227	1	115,314	1	100,391
1/4		1/4		1/4	186,447	1/4	176,150	1/4	165,851	1/4	155,519	1/4	144,676	1/4	129,917	1/4	115,003	1/4	100,080
1/2		1/2		1/2	186,232	1/2	175,936	1/2	165,636	1/2	155,303	1/2	144,398	1/2	129,606	1/2	114,692	1/2	99,769
3/4		3/4		3/4	186,018	3/4	175,721	3/4	165,421	3/4	155,088	3/4	144,121	3/4	129,295	3/4	114,382	3/4	99,458
2		2		2	185,803	2	175,507	2	165,205	2	154,873	2	143,827	2	128,985	2	114,071	2	99,147
1/4		1/4		1/4	185,588	1/4	175,292	1/4	164,990	1/4	154,658	1/4	143,533	1/4	128,674	1/4	113,760	1/4	98,836
1/2		1/2		1/2	185,374	1/2	175,078	1/2	164,775	1/2	154,442	1/2	143,240	1/2	128,363	1/2	113,450	1/2	98,525
3/4		3/4		3/4	185,159	3/4	174,863	3/4	164,560	3/4	154,227	3/4	142,946	3/4	128,053	3/4	113,139	3/4	98,214
3		3		3	184,945	3	174,649	3	164,344	3	154,012	3	142,640	3	127,742	3	112,828	3	97,903
1/4		1/4		1/4	184,730	1/4	174,434	1/4	164,129	1/4	153,797	1/4	142,334	1/4	127,431	1/4	112,518	1/4	97,592
1/2		1/2		1/2	184,516	1/2	174,220	1/2	163,914	1/2	153,581	1/2	142,028	1/2	127,120	1/2	112,207	1/2	97,281
3/4		3/4		3/4	184,301	3/4	174,005	3/4	163,698	3/4	153,366	3/4	141,722	3/4	126,810	3/4	111,896	3/4	96,970
4		4		4	184,087	4	173,791	4	163,483	4	153,151	4	141,412	4	126,499	4	111,585	4	96,659
1/4		1/4		1/4	183,872	1/4	173,576	1/4	163,268	1/4	152,935	1/4	141,101	1/4	126,188	1/4	111,275	1/4	96,348
1/2		1/2		1/2	183,658	1/2	173,362	1/2	163,053	1/2	152,720	1/2	140,791	1/2	125,878	1/2	110,964	1/2	96,037
3/4		3/4		3/4	183,443	3/4	173,147	3/4	162,837	3/4	152,505	3/4	140,480	3/4	125,567	3/4	110,653	3/4	95,726
5		5		5	183,229	5	172,933	5	162,622	5	152,290	5	140,170	5	125,256	5	110,343	5	95,415
1/4		1/4		1/4	183,014	1/4	172,718	1/4	162,407	1/4	152,074	1/4	139,859	1/4	124,946	1/4	110,032	1/4	95,104
1/2		1/2		1/2	182,800	1/2	172,504	1/2	162,192	1/2	151,859	1/2	139,548	1/2	124,635	1/2	109,721	1/2	94,794
3/4		3/4		3/4	182,585	3/4	172,289	3/4	161,976	3/4	151,644	3/4	139,238	3/4	124,324	3/4	109,411	3/4	94,483
6		6		6	182,371	6	172,075	6	161,761	6	151,429	6	138,927	6	124,013	6	109,100	6	94,172
1/4		1/4		1/4	182,156	1/4	171,860	1/4	161,546	1/4	151,213	1/4	138,616	1/4	123,703	1/4	108,789	1/4	93,861
1/2		1/2		1/2	181,942	1/2	171,646	1/2	161,331	1/2	150,998	1/2	138,306	1/2	123,392	1/2	108,478	1/2	93,550
3/4		3/4		3/4	191,334	3/4	181,727	3/4	171,431	3/4	161,115	3/4	150,783	3/4	137,995	3/4	123,081	3/4	93,239
7		7		7	181,211	7	181,513	7	171,217	7	160,900	7	150,568	7	137,684	7	122,771	7	92,928
1/4		1/4		1/4	191,087	1/4	181,298	1/4	171,002	1/4	160,685	1/4	150,352	1/4	137,374	1/4	122,460	1/4	92,618
1/2		1/2		1/2	190,964	1/2	181,084	1/2	170,788	1/2	160,470	1/2	150,137	1/2	137,063	1/2	122,149	1/2	92,307
3/4		3/4		3/4	190,841	3/4	180,869	3/4	170,573	3/4	160,254	3/4	149,922	3/4	136,752	3/4	121,839	3/4	91,996
8		8		8	190,682	8	180,655	8	170,359	8	160,039	8	149,707	8	136,441	8	121,528	8	91,685
1/4		1/4		1/4	190,523	1/4	180,440	1/4	170,144	1/4	159,824	1/4	149,491	1/4	136,131	1/4	121,217	1/4	91,374
1/2		1/2		1/2	190,364	1/2	180,226	1/2	169,930	1/2	159,609	1/2	149,276	1/2	135,820	1/2	120,906	1/2	91,063
3/4		3/4		3/4	190,205	3/4	180,011	3/4	169,715	3/4	159,393	3/4	149,061	3/4	135,509	3/4	120,596	3/4	90,752
9		9		9	190,012	9	179,797	9	169,501	9	159,178	9	148,842	9	135,199	9	120,285	9	90,441
1/4		1/4		1/4	189,820	1/4	179,582	1/4	169,286	1/4	158,963	1/4	148,623	1/4	134,888	1/4	119,974	1/4	90,131
1/2		1/2		1/2	189,627	1/2	179,368	1/2	169,072	1/2	158,747	1/2	148,404	1/2	134,577	1/2	119,664	1/2	89,820
3/4		3/4		3/4	189,435	3/4	179,153	3/4	168,857	3/4	158,532	3/4	148,186	3/4	134,267	3/4	119,353	3/4	89,509
10		10		10	189,224	10	178,939	10	168,643	10	158,317	10	147,955	10	133,956	10	119,042	10	89,198
1/4		1/4		1/4	189,013	1/4	178,724	1/4	168,428	1/4	158,102	1/4	147,725	1/4	133,645	1/4	118,732	1/4	88,887
1/2		1/2		1/2	188,802	1/2	178,510	1/2	168,214	1/2	157,886	1/2	147,495	1/2	133,334	1/2	118,421	1/2	88,576
3/4		3/4		3/4	188,591	3/4	178,295	3/4	167,999	3/4	157,671	3/4	147,265	3/4	133,024	3/4	118,110	3/4	88,265
11		11		11	188,377	11	178,081	11	167,785	11	157,456	11	147,018	11	132,713	11	117,799	11	87,954
1/4		1/4		1/4	188,163	1/4	177,866	1/4	167,570	1/4	157,241	1/4	146,772	1/4	132,402	1/4	117,489	1/4	87,643
1/2		1/2		1/2	187,948	1/2	177,652	1/2	167,356	1/2	157,025	1/2	146,525	1/2	132,092	1/2	117,178	1/2	87,332
3/4		3/4		3/4	187,734	3/4	177,437	3/4	167,141	3/4	156,810	3/4	146,279	3/4	131,781	3/4	116,867	3/4	87,021

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" "HERMETIC" VALVE

GAUGE POINT: (HERMETIC) LOCATED 10'-09" OFF CENTERLINE AND 43'-0" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

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BARGE "HFL 435"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-09 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	86,710	0	71,811	0	56,982	0	42,498	0	27,718	0	12,779	0		0		0		0	
1/4	86,399	1/4	71,502	1/4	56,679	1/4	42,195	1/4	27,406	1/4	12,467	1/4		1/4		1/4		1/4	
1/2	86,088	1/2	71,192	1/2	56,376	1/2	41,891	1/2	27,095	1/2	12,156	1/2		1/2		1/2		1/2	
3/4	85,777	3/4	70,883	3/4	56,073	3/4	41,587	3/4	26,784	3/4	11,845	3/4		3/4		3/4		3/4	
1	85,465	1	70,574	1	55,772	1	41,283	1	26,473	1	11,534	1		1		1		1	
1/4	85,154	1/4	70,265	1/4	55,471	1/4	40,979	1/4	26,162	1/4	11,222	1/4		1/4		1/4		1/4	
1/2	84,843	1/2	69,955	1/2	55,169	1/2	40,675	1/2	25,851	1/2	10,911	1/2		1/2		1/2		1/2	
3/4	84,532	3/4	69,646	3/4	54,868	3/4	40,371	3/4	25,540	3/4	10,599	3/4		3/4		3/4		3/4	
2	84,221	2	69,337	2	54,566	2	40,067	2	25,228	2	10,287	2		2		2		2	
1/4	83,910	1/4	69,028	1/4	54,265	1/4	39,763	1/4	24,917	1/4	9,976	1/4		1/4		1/4		1/4	
1/2	83,598	1/2	68,719	1/2	53,964	1/2	39,459	1/2	24,606	1/2	9,664	1/2		1/2		1/2		1/2	
3/4	83,287	3/4	68,409	3/4	53,662	3/4	39,155	3/4	24,295	3/4	9,352	3/4		3/4		3/4		3/4	
3	82,976	3	68,100	3	53,361	3	38,851	3	23,983	3	9,041	3		3		3		3	
1/4	82,665	1/4	67,791	1/4	53,059	1/4	38,547	1/4	23,672	1/4	8,729	1/4		1/4		1/4		1/4	
1/2	82,354	1/2	67,482	1/2	52,758	1/2	38,243	1/2	23,361	1/2	8,417	1/2		1/2		1/2		1/2	
3/4	82,042	3/4	67,172	3/4	52,456	3/4	37,939	3/4	23,050	3/4	8,106	3/4		3/4		3/4		3/4	
4	81,731	4	66,863	4	52,155	4	37,635	4	22,738	4	7,794	4		4		4		4	
1/4	81,420	1/4	66,554	1/4	51,854	1/4	37,331	1/4	22,427	1/4	7,483	1/4		1/4		1/4		1/4	
1/2	81,109	1/2	66,245	1/2	51,552	1/2	37,028	1/2	22,116	1/2	7,171	1/2		1/2		1/2		1/2	
3/4	80,798	3/4	65,936	3/4	51,251	3/4	36,724	3/4	21,805	3/4	6,860	3/4		3/4		3/4		3/4	
5	80,487	5	65,626	5	50,949	5	36,417	5	21,493	5	6,548	5		5		5		5	
1/4	80,175	1/4	65,317	1/4	50,648	1/4	36,109	1/4	21,182	1/4	6,237	1/4		1/4		1/4		1/4	
1/2	79,864	1/2	65,008	1/2	50,347	1/2	35,802	1/2	20,871	1/2	5,926	1/2		1/2		1/2		1/2	
3/4	79,553	3/4	64,699	3/4	50,045	3/4	35,495	3/4	20,560	3/4	5,614	3/4		3/4		3/4		3/4	
6	79,242	6	64,389	6	49,744	6	35,185	6	20,249	6	5,303	6		6		6		6	
1/4	78,931	1/4	64,080	1/4	49,442	1/4	34,874	1/4	19,937	1/4	4,991	1/4		1/4		1/4		1/4	
1/2	78,620	1/2	63,771	1/2	49,141	1/2	34,563	1/2	19,626	1/2	4,680	1/2		1/2		1/2		1/2	
3/4	78,308	3/4	63,462	3/4	48,840	3/4	34,252	3/4	19,315	3/4	4,369	3/4		3/4		3/4		3/4	
7	77,998	7	63,152	7	48,538	7	33,941	7	19,004	7	4,058	7		7		7		7	
1/4	77,688	1/4	62,842	1/4	48,237	1/4	33,630	1/4	18,692	1/4	3,747	1/4		1/4		1/4		1/4	
1/2	77,378	1/2	62,532	1/2	47,935	1/2	33,319	1/2	18,381	1/2	3,436	1/2		1/2		1/2		1/2	
3/4	77,068	3/4	62,222	3/4	47,634	3/4	33,007	3/4	18,070	3/4	3,126	3/4		3/4		3/4		3/4	
8	76,758	8	61,911	8	47,333	8	32,696	8	17,759	8	2,834	8		8		8		8	
1/4	76,449	1/4	61,600	1/4	47,032	1/4	32,385	1/4	17,447	1/4	2,543	1/4		1/4		1/4		1/4	
1/2	76,140	1/2	61,289	1/2	46,731	1/2	32,074	1/2	17,136	1/2	2,251	1/2		1/2		1/2		1/2	
3/4	75,831	3/4	60,978	3/4	46,430	3/4	31,762	3/4	16,825	3/4	1,960	3/4		3/4		3/4		3/4	
9	75,521	9	60,667	9	46,129	9	31,451	9	16,514	9	1,726	9		9		9		9	
1/4	75,212	1/4	60,356	1/4	45,829	1/4	31,140	1/4	16,202	1/4	1,492	1/4		1/4		1/4		1/4	
1/2	74,903	1/2	60,046	1/2	45,528	1/2	30,829	1/2	15,891	1/2	1,258	1/2		1/2		1/2		1/2	
3/4	74,594	3/4	59,735	3/4	45,227	3/4	30,518	3/4	15,580	3/4	1,025	3/4		3/4		3/4		3/4	
10	74,285	10	59,427	10	44,925	10	30,206	10	15,269	10		10		10		10		10	
1/4	73,975	1/4	59,119	1/4	44,623	1/4	29,895	1/4	14,957	1/4		1/4		1/4		1/4		1/4	
1/2	73,666	1/2	58,811	1/2	44,320	1/2	29,584	1/2	14,646	1/2		1/2		1/2		1/2		1/2	
3/4	73,357	3/4	58,504	3/4	44,018	3/4	29,273	3/4	14,335	3/4		3/4		3/4		3/4		3/4	
11	73,048	11	58,199	11	43,714	11	28,962	11	14,024	11		11		11		11		11	
1/4	72,738	1/4	57,895	1/4	43,410	1/4	28,651	1/4	13,712	1/4		1/4		1/4		1/4		1/4	
1/2	72,429	1/2	57,590	1/2	43,106	1/2	28,340	1/2	13,401	1/2		1/2		1/2		1/2		1/2	
3/4	72,120	3/4	57,285	3/4	42,802	3/4	28,029	3/4	13,090	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/27/2015 CL
CALCULATED: 10/27/2015 CL
PRINTED: 10/27/2015 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2015

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
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BARGE "HFL 435"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10"

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	208,824	0	193,869	0	178,860	0	163,802	0	148,742	0	133,681	0	118,621	0	103,557
1/4		1/4		1/4	208,514	1/4	193,557	1/4	178,547	1/4	163,488	1/4	148,428	1/4	133,367	1/4	118,307	1/4	103,243
1/2		1/2		1/2	208,205	1/2	193,244	1/2	178,234	1/2	163,174	1/2	148,114	1/2	133,054	1/2	117,993	1/2	102,929
3/4		3/4		3/4	207,895	3/4	192,931	3/4	177,920	3/4	162,861	3/4	147,800	3/4	132,740	3/4	117,680	3/4	102,615
1		1		1	207,585	1	192,618	1	177,607	1	162,547	1	147,486	1	132,426	1	117,366	1	102,301
1/4		1/4		1/4	207,276	1/4	192,306	1/4	177,293	1/4	162,233	1/4	147,173	1/4	132,112	1/4	117,052	1/4	101,988
1/2		1/2		1/2	206,966	1/2	191,993	1/2	176,980	1/2	161,919	1/2	146,859	1/2	131,799	1/2	116,738	1/2	101,674
3/4		3/4		3/4	206,656	3/4	191,680	3/4	176,666	3/4	161,606	3/4	146,545	3/4	131,485	3/4	116,425	3/4	101,360
2		2		2	206,346	2	191,368	2	176,352	2	161,292	2	146,231	2	131,171	2	116,111	2	101,046
1/4		1/4		1/4	206,037	1/4	191,055	1/4	176,038	1/4	160,978	1/4	145,918	1/4	130,857	1/4	115,797	1/4	100,732
1/2		1/2		1/2	205,727	1/2	190,742	1/2	175,725	1/2	160,664	1/2	145,604	1/2	130,544	1/2	115,483	1/2	100,418
3/4		3/4		3/4	205,417	3/4	190,430	3/4	175,411	3/4	160,351	3/4	145,290	3/4	130,230	3/4	115,170	3/4	100,104
3		3		3	205,108	3	190,117	3	175,097	3	160,037	3	144,976	3	129,916	3	114,856	3	99,790
1/4		1/4		1/4	204,798	1/4	189,804	1/4	174,783	1/4	159,723	1/4	144,663	1/4	129,602	1/4	114,542	1/4	99,476
1/2		1/2		1/2	204,488	1/2	189,492	1/2	174,470	1/2	159,409	1/2	144,349	1/2	129,289	1/2	114,228	1/2	99,162
3/4		3/4		3/4	204,179	3/4	189,179	3/4	174,156	3/4	159,095	3/4	144,035	3/4	128,975	3/4	113,915	3/4	98,848
4		4		4	203,869	4	188,866	4	173,842	4	158,782	4	143,721	4	128,661	4	113,601	4	98,534
1/4		1/4		1/4	203,558	1/4	188,553	1/4	173,528	1/4	158,468	1/4	143,408	1/4	128,347	1/4	113,287	1/4	98,221
1/2		1/2		1/2	203,247	1/2	188,241	1/2	173,215	1/2	158,154	1/2	143,094	1/2	128,034	1/2	112,973	1/2	97,907
3/4		3/4		3/4	202,936	3/4	187,928	3/4	172,901	3/4	157,840	3/4	142,780	3/4	127,720	3/4	112,660	3/4	97,593
5		5		5	202,625	5	187,615	5	172,587	5	157,527	5	142,466	5	127,406	5	112,346	5	97,279
1/4		1/4		1/4	202,312	1/4	187,303	1/4	172,273	1/4	157,213	1/4	142,153	1/4	127,092	1/4	112,032	1/4	96,965
1/2		1/2		1/2	201,999	1/2	186,990	1/2	171,959	1/2	156,899	1/2	141,839	1/2	126,779	1/2	111,718	1/2	96,651
3/4		3/4		3/4	201,687	3/4	186,677	3/4	171,646	3/4	156,585	3/4	141,525	3/4	126,465	3/4	111,404	3/4	96,337
6		6		6	201,374	6	186,365	6	171,332	6	156,272	6	141,211	6	126,151	6	111,091	6	96,023
1/4		1/4		1/4	201,061	1/4	186,052	1/4	171,018	1/4	155,958	1/4	140,898	1/4	125,837	1/4	110,777	1/4	95,709
1/2		1/2		1/2	200,748	1/2	185,739	1/2	170,704	1/2	155,644	1/2	140,584	1/2	125,524	1/2	110,463	1/2	95,395
3/4		3/4		3/4	200,436	3/4	185,427	3/4	170,391	3/4	155,330	3/4	140,270	3/4	125,210	3/4	110,149	3/4	95,081
7		7	214,043	7	200,123	7	185,114	7	170,077	7	155,017	7	139,956	7	124,896	7	109,835	7	94,768
1/4		1/4	213,864	1/4	199,810	1/4	184,801	1/4	169,763	1/4	154,703	1/4	139,643	1/4	124,582	1/4	109,521	1/4	94,454
1/2		1/2	213,685	1/2	199,498	1/2	184,488	1/2	169,449	1/2	154,389	1/2	139,329	1/2	124,269	1/2	109,208	1/2	94,140
3/4		3/4	213,506	3/4	199,185	3/4	184,176	3/4	169,136	3/4	154,075	3/4	139,015	3/4	123,955	3/4	108,894	3/4	93,826
8		8	213,327	8	198,872	8	183,863	8	168,822	8	153,762	8	138,701	8	123,641	8	108,580	8	93,512
1/4		1/4	213,096	1/4	198,560	1/4	183,550	1/4	168,508	1/4	153,448	1/4	138,388	1/4	123,327	1/4	108,266	1/4	93,198
1/2		1/2	212,865	1/2	198,247	1/2	183,238	1/2	168,194	1/2	153,134	1/2	138,074	1/2	123,013	1/2	107,952	1/2	92,884
3/4		3/4	212,634	3/4	197,934	3/4	182,925	3/4	167,881	3/4	152,820	3/4	137,760	3/4	122,700	3/4	107,638	3/4	92,570
9		9	212,402	9	197,622	9	182,612	9	167,567	9	152,507	9	137,446	9	122,386	9	107,324	9	92,256
1/4		1/4	212,123	1/4	197,309	1/4	182,300	1/4	167,253	1/4	152,193	1/4	137,133	1/4	122,072	1/4	107,010	1/4	91,942
1/2		1/2	211,843	1/2	196,996	1/2	181,987	1/2	166,939	1/2	151,879	1/2	136,819	1/2	121,758	1/2	106,696	1/2	91,628
3/4		3/4	211,563	3/4	196,683	3/4	181,674	3/4	166,626	3/4	151,565	3/4	136,505	3/4	121,445	3/4	106,382	3/4	91,314
10		10	211,283	10	196,371	10	181,362	10	166,312	10	151,252	10	136,191	10	121,131	10	106,068	10	91,001
1/4		1/4	210,978	1/4	196,058	1/4	181,049	1/4	165,998	1/4	150,938	1/4	135,877	1/4	120,817	1/4	105,755	1/4	90,687
1/2		1/2	210,672	1/2	195,745	1/2	180,736	1/2	165,684	1/2	150,624	1/2	135,564	1/2	120,503	1/2	105,441	1/2	90,373
3/4		3/4	210,366	3/4	195,433	3/4	180,423	3/4	165,371	3/4	150,310	3/4	135,250	3/4	120,190	3/4	105,127	3/4	90,059
11		11	210,061	11	195,120	11	180,111	11	165,057	11	149,997	11	134,936	11	119,876	11	104,813	11	89,745
1/4		1/4	209,752	1/4	194,807	1/4	179,798	1/4	164,743	1/4	149,683	1/4	134,622	1/4	119,562	1/4	104,499	1/4	89,431
1/2		1/2	209,442	1/2	194,495	1/2	179,485	1/2	164,429	1/2	149,369	1/2	134,309	1/2	119,248	1/2	104,185	1/2	89,117
3/4		3/4	209,133	3/4	194,182	3/4	179,173	3/4	164,116	3/4	149,055	3/4	133,995	3/4	118,935	3/4	103,871	3/4	88,803

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" "HERMETIC" VALVE
GAUGE POINT: (HERMETIC) LOCATED 10'-09" OFF CENTERLINE AND 43'-3" FORWARD OF AFT BULKHEAD

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "HFL 435"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10"

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	88,489	0	73,421	0	58,354	0	43,308	0	28,254	0	13,188	0		0		0		0	
1/4	88,175	1/4	73,107	1/4	58,040	1/4	42,995	1/4	27,941	1/4	12,874	1/4		1/4		1/4		1/4	
1/2	87,861	1/2	72,794	1/2	57,726	1/2	42,682	1/2	27,627	1/2	12,560	1/2		1/2		1/2		1/2	
3/4	87,548	3/4	72,480	3/4	57,412	3/4	42,369	3/4	27,313	3/4	12,246	3/4		3/4		3/4		3/4	
1	87,234	1	72,166	1	57,098	1	42,056	1	27,000	1	11,932	1		1		1		1	
1/4	86,920	1/4	71,852	1/4	56,784	1/4	41,743	1/4	26,686	1/4	11,618	1/4		1/4		1/4		1/4	
1/2	86,606	1/2	71,538	1/2	56,470	1/2	41,430	1/2	26,372	1/2	11,304	1/2		1/2		1/2		1/2	
3/4	86,292	3/4	71,224	3/4	56,156	3/4	41,117	3/4	26,058	3/4	10,990	3/4		3/4		3/4		3/4	
2	85,978	2	70,910	2	55,842	2	40,804	2	25,744	2	10,676	2		2		2		2	
1/4	85,664	1/4	70,596	1/4	55,528	1/4	40,491	1/4	25,430	1/4	10,362	1/4		1/4		1/4		1/4	
1/2	85,350	1/2	70,282	1/2	55,214	1/2	40,178	1/2	25,116	1/2	10,049	1/2		1/2		1/2		1/2	
3/4	85,036	3/4	69,968	3/4	54,900	3/4	39,865	3/4	24,802	3/4	9,735	3/4		3/4		3/4		3/4	
3	84,722	3	69,654	3	54,587	3	39,552	3	24,489	3	9,421	3		3		3		3	
1/4	84,408	1/4	69,341	1/4	54,273	1/4	39,239	1/4	24,175	1/4	9,107	1/4		1/4		1/4		1/4	
1/2	84,094	1/2	69,027	1/2	53,959	1/2	38,925	1/2	23,861	1/2	8,793	1/2		1/2		1/2		1/2	
3/4	83,781	3/4	68,713	3/4	53,645	3/4	38,612	3/4	23,547	3/4	8,479	3/4		3/4		3/4		3/4	
4	83,467	4	68,399	4	53,331	4	38,298	4	23,233	4	8,165	4		4		4		4	
1/4	83,153	1/4	68,085	1/4	53,017	1/4	37,985	1/4	22,919	1/4	7,851	1/4		1/4		1/4		1/4	
1/2	82,839	1/2	67,771	1/2	52,703	1/2	37,671	1/2	22,605	1/2	7,537	1/2		1/2		1/2		1/2	
3/4	82,525	3/4	67,457	3/4	52,389	3/4	37,357	3/4	22,291	3/4	7,223	3/4		3/4		3/4		3/4	
5	82,211	5	67,143	5	52,075	5	37,043	5	21,977	5	6,909	5		5		5		5	
1/4	81,897	1/4	66,829	1/4	51,762	1/4	36,729	1/4	21,663	1/4	6,596	1/4		1/4		1/4		1/4	
1/2	81,583	1/2	66,515	1/2	51,448	1/2	36,415	1/2	21,349	1/2	6,282	1/2		1/2		1/2		1/2	
3/4	81,269	3/4	66,201	3/4	51,135	3/4	36,101	3/4	21,036	3/4	5,968	3/4		3/4		3/4		3/4	
6	80,955	6	65,887	6	50,821	6	35,787	6	20,722	6	5,654	6		6		6		6	
1/4	80,641	1/4	65,574	1/4	50,508	1/4	35,473	1/4	20,408	1/4	5,340	1/4		1/4		1/4		1/4	
1/2	80,327	1/2	65,260	1/2	50,195	1/2	35,159	1/2	20,094	1/2	5,027	1/2		1/2		1/2		1/2	
3/4	80,014	3/4	64,946	3/4	49,881	3/4	34,845	3/4	19,780	3/4	4,713	3/4		3/4		3/4		3/4	
7	79,700	7	64,632	7	49,568	7	34,531	7	19,466	7	4,399	7		7		7		7	
1/4	79,386	1/4	64,318	1/4	49,255	1/4	34,218	1/4	19,152	1/4	4,086	1/4		1/4		1/4		1/4	
1/2	79,072	1/2	64,004	1/2	48,942	1/2	33,904	1/2	18,838	1/2	3,773	1/2		1/2		1/2		1/2	
3/4	78,758	3/4	63,690	3/4	48,629	3/4	33,590	3/4	18,524	3/4	3,460	3/4		3/4		3/4		3/4	
8	78,444	8	63,376	8	48,316	8	33,276	8	18,210	8	3,148	8		8		8		8	
1/4	78,130	1/4	63,062	1/4	48,003	1/4	32,962	1/4	17,896	1/4	2,854	1/4		1/4		1/4		1/4	
1/2	77,816	1/2	62,748	1/2	47,690	1/2	32,648	1/2	17,582	1/2	2,561	1/2		1/2		1/2		1/2	
3/4	77,502	3/4	62,434	3/4	47,377	3/4	32,334	3/4	17,269	3/4	2,267	3/4		3/4		3/4		3/4	
9	77,188	9	62,120	9	47,064	9	32,020	9	16,955	9	1,974	9		9		9		9	
1/4	76,874	1/4	61,807	1/4	46,751	1/4	31,706	1/4	16,641	1/4	1,738	1/4		1/4		1/4		1/4	
1/2	76,561	1/2	61,493	1/2	46,438	1/2	31,392	1/2	16,327	1/2	1,503	1/2		1/2		1/2		1/2	
3/4	76,247	3/4	61,179	3/4	46,125	3/4	31,078	3/4	16,013	3/4	1,267	3/4		3/4		3/4		3/4	
10	75,933	10	60,865	10	45,812	10	30,765	10	15,699	10	1,032	10		10		10		10	
1/4	75,619	1/4	60,551	1/4	45,499	1/4	30,451	1/4	15,385	1/4		1/4		1/4		1/4		1/4	
1/2	75,305	1/2	60,237	1/2	45,186	1/2	30,137	1/2	15,071	1/2		1/2		1/2		1/2		1/2	
3/4	74,991	3/4	59,923	3/4	44,873	3/4	29,823	3/4	14,757	3/4		3/4		3/4		3/4		3/4	
11	74,677	11	59,609	11	44,560	11	29,509	11	14,443	11		11		11		11		11	
1/4	74,363	1/4	59,295	1/4	44,247	1/4	29,195	1/4	14,129	1/4		1/4		1/4		1/4		1/4	
1/2	74,049	1/2	58,981	1/2	43,934	1/2	28,882	1/2	13,816	1/2		1/2		1/2		1/2		1/2	
3/4	73,735	3/4	58,667	3/4	43,621	3/4	28,568	3/4	13,502	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/27/2015 CL
CALCULATED: 10/27/2015 CL
PRINTED: 10/27/2015 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2015

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



BARGE "HFL 435"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10"

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	207,693	0	192,738	0	177,729	0	162,671	0	147,610	0	132,550	0	117,490	0	102,426
1/4		1/4		1/4	207,383	1/4	192,425	1/4	177,415	1/4	162,357	1/4	147,296	1/4	132,236	1/4	117,176	1/4	102,112
1/2		1/2		1/2	207,073	1/2	192,113	1/2	177,102	1/2	162,043	1/2	146,983	1/2	131,922	1/2	116,862	1/2	101,798
3/4		3/4		3/4	206,764	3/4	191,800	3/4	176,789	3/4	161,729	3/4	146,669	3/4	131,609	3/4	116,548	3/4	101,484
1		1		1	206,454	1	191,487	1	176,476	1	161,416	1	146,355	1	131,295	1	116,235	1	101,170
1/4		1/4		1/4	206,144	1/4	191,174	1/4	176,162	1/4	161,102	1/4	146,041	1/4	130,981	1/4	115,921	1/4	100,856
1/2		1/2		1/2	205,834	1/2	190,862	1/2	175,848	1/2	160,788	1/2	145,728	1/2	130,667	1/2	115,607	1/2	100,542
3/4		3/4		3/4	205,525	3/4	190,549	3/4	175,535	3/4	160,474	3/4	145,414	3/4	130,354	3/4	115,293	3/4	100,228
2		2		2	205,215	2	190,236	2	175,221	2	160,160	2	145,100	2	130,040	2	114,980	2	99,915
1/4		1/4		1/4	204,905	1/4	189,924	1/4	174,907	1/4	159,847	1/4	144,786	1/4	129,726	1/4	114,666	1/4	99,601
1/2		1/2		1/2	204,596	1/2	189,611	1/2	174,593	1/2	159,533	1/2	144,473	1/2	129,412	1/2	114,352	1/2	99,287
3/4		3/4		3/4	204,286	3/4	189,298	3/4	174,280	3/4	159,219	3/4	144,159	3/4	129,099	3/4	114,038	3/4	98,973
3		3		3	203,976	3	188,986	3	173,966	3	158,905	3	143,845	3	128,785	3	113,725	3	98,659
1/4		1/4		1/4	203,667	1/4	188,673	1/4	173,652	1/4	158,592	1/4	143,531	1/4	128,471	1/4	113,411	1/4	98,345
1/2		1/2		1/2	203,357	1/2	188,360	1/2	173,338	1/2	158,278	1/2	143,218	1/2	128,157	1/2	113,097	1/2	98,031
3/4		3/4		3/4	203,047	3/4	188,048	3/4	173,024	3/4	157,964	3/4	142,904	3/4	127,844	3/4	112,783	3/4	97,717
4		4		4	202,738	4	187,735	4	172,711	4	157,650	4	142,590	4	127,530	4	112,470	4	97,403
1/4		1/4		1/4	202,427	1/4	187,422	1/4	172,397	1/4	157,337	1/4	142,276	1/4	127,216	1/4	112,156	1/4	97,089
1/2		1/2		1/2	202,116	1/2	187,109	1/2	172,083	1/2	157,023	1/2	141,963	1/2	126,902	1/2	111,842	1/2	96,775
3/4		3/4		3/4	201,804	3/4	186,797	3/4	171,769	3/4	156,709	3/4	141,649	3/4	126,589	3/4	111,528	3/4	96,461
5		5		5	201,493	5	186,484	5	171,456	5	156,395	5	141,335	5	126,275	5	111,215	5	96,148
1/4		1/4		1/4	201,181	1/4	186,171	1/4	171,142	1/4	156,082	1/4	141,021	1/4	125,961	1/4	110,901	1/4	95,834
1/2		1/2		1/2	200,868	1/2	185,859	1/2	170,828	1/2	155,768	1/2	140,708	1/2	125,647	1/2	110,587	1/2	95,520
3/4		3/4		3/4	200,555	3/4	185,546	3/4	170,514	3/4	155,454	3/4	140,394	3/4	125,334	3/4	110,273	3/4	95,206
6		6		6	200,242	6	185,233	6	170,201	6	155,140	6	140,080	6	125,020	6	109,959	6	94,892
1/4		1/4		1/4	199,930	1/4	184,921	1/4	169,887	1/4	154,827	1/4	139,766	1/4	124,706	1/4	109,646	1/4	94,578
1/2		1/2		1/2	199,617	1/2	184,608	1/2	169,573	1/2	154,513	1/2	139,453	1/2	124,392	1/2	109,332	1/2	94,264
3/4		3/4		3/4	199,304	3/4	184,295	3/4	169,259	3/4	154,199	3/4	139,139	3/4	124,079	3/4	109,018	3/4	93,950
7		7	212,912	7	198,992	7	183,983	7	168,946	7	153,885	7	138,825	7	123,765	7	108,704	7	93,636
1/4		1/4	212,733	1/4	198,679	1/4	183,670	1/4	168,632	1/4	153,572	1/4	138,511	1/4	123,451	1/4	108,390	1/4	93,322
1/2		1/2	212,554	1/2	198,366	1/2	183,357	1/2	168,318	1/2	153,258	1/2	138,198	1/2	123,137	1/2	108,076	1/2	93,008
3/4		3/4	212,375	3/4	198,054	3/4	183,044	3/4	168,004	3/4	152,944	3/4	137,884	3/4	122,823	3/4	107,762	3/4	92,695
8		8	212,196	8	197,741	8	182,732	8	167,691	8	152,630	8	137,570	8	122,510	8	107,448	8	92,381
1/4		1/4	211,965	1/4	197,428	1/4	182,419	1/4	167,377	1/4	152,317	1/4	137,256	1/4	122,196	1/4	107,135	1/4	92,067
1/2		1/2	211,733	1/2	197,116	1/2	182,106	1/2	167,063	1/2	152,003	1/2	136,943	1/2	121,882	1/2	106,821	1/2	91,753
3/4		3/4	211,502	3/4	196,803	3/4	181,794	3/4	166,749	3/4	151,689	3/4	136,629	3/4	121,568	3/4	106,507	3/4	91,439
9		9	211,271	9	196,490	9	181,481	9	166,436	9	151,375	9	136,315	9	121,255	9	106,193	9	91,125
1/4		1/4	210,991	1/4	196,178	1/4	181,168	1/4	166,122	1/4	151,062	1/4	136,001	1/4	120,941	1/4	105,879	1/4	90,811
1/2		1/2	210,711	1/2	195,865	1/2	180,856	1/2	165,808	1/2	150,748	1/2	135,688	1/2	120,627	1/2	105,565	1/2	90,497
3/4		3/4	210,432	3/4	195,552	3/4	180,543	3/4	165,494	3/4	150,434	3/4	135,374	3/4	120,313	3/4	105,251	3/4	90,183
10		10	210,152	10	195,239	10	180,230	10	165,181	10	150,120	10	135,060	10	120,000	10	104,937	10	89,869
1/4		1/4	209,846	1/4	194,927	1/4	179,918	1/4	164,867	1/4	149,807	1/4	134,746	1/4	119,686	1/4	104,623	1/4	89,555
1/2		1/2	209,541	1/2	194,614	1/2	179,605	1/2	164,553	1/2	149,493	1/2	134,432	1/2	119,372	1/2	104,309	1/2	89,241
3/4		3/4	209,235	3/4	194,301	3/4	179,292	3/4	164,239	3/4	149,179	3/4	134,119	3/4	119,058	3/4	103,995	3/4	88,928
11		11	208,930	11	193,989	11	178,979	11	163,926	11	148,865	11	133,805	11	118,745	11	103,682	11	88,614
1/4		1/4	208,620	1/4	193,676	1/4	178,667	1/4	163,612	1/4	148,552	1/4	133,491	1/4	118,431	1/4	103,368	1/4	88,300
1/2		1/2	208,311	1/2	193,363	1/2	178,354	1/2	163,298	1/2	148,238	1/2	133,177	1/2	118,117	1/2	103,054	1/2	87,986
3/4		3/4	208,002	3/4	193,051	3/4	178,041	3/4	162,984	3/4	147,924	3/4	132,864	3/4	117,803	3/4	102,740	3/4	87,672

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" "HERMETIC" VALVE
GAUGE POINT: (HERMETIC) LOCATED 10'-09" OFF CENTERLINE AND 43'-3" FORWARD OF AFT BULKHEAD

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "HFL 435"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10"

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	87,358	0	72,290	0	57,528	0	43,048	0	28,253	0	13,187	0		0		0		0	
1/4	87,044	1/4	71,976	1/4	57,226	1/4	42,747	1/4	27,940	1/4	12,873	1/4		1/4		1/4		1/4	
1/2	86,730	1/2	71,662	1/2	56,924	1/2	42,445	1/2	27,626	1/2	12,559	1/2		1/2		1/2		1/2	
3/4	86,416	3/4	71,348	3/4	56,622	3/4	42,144	3/4	27,312	3/4	12,245	3/4		3/4		3/4		3/4	
1	86,102	1	71,034	1	56,320	1	41,843	1	26,999	1	11,932	1		1		1		1	
1/4	85,788	1/4	70,721	1/4	56,018	1/4	41,542	1/4	26,685	1/4	11,618	1/4		1/4		1/4		1/4	
1/2	85,475	1/2	70,407	1/2	55,715	1/2	41,241	1/2	26,371	1/2	11,304	1/2		1/2		1/2		1/2	
3/4	85,161	3/4	70,093	3/4	55,413	3/4	40,939	3/4	26,057	3/4	10,990	3/4		3/4		3/4		3/4	
2	84,847	2	69,779	2	55,111	2	40,638	2	25,743	2	10,676	2		2		2		2	
1/4	84,533	1/4	69,465	1/4	54,809	1/4	40,337	1/4	25,429	1/4	10,362	1/4		1/4		1/4		1/4	
1/2	84,219	1/2	69,151	1/2	54,507	1/2	40,036	1/2	25,116	1/2	10,048	1/2		1/2		1/2		1/2	
3/4	83,905	3/4	68,837	3/4	54,205	3/4	39,734	3/4	24,802	3/4	9,734	3/4		3/4		3/4		3/4	
3	83,591	3	68,523	3	53,902	3	39,433	3	24,488	3	9,420	3		3		3		3	
1/4	83,277	1/4	68,209	1/4	53,600	1/4	39,132	1/4	24,174	1/4	9,106	1/4		1/4		1/4		1/4	
1/2	82,963	1/2	67,895	1/2	53,298	1/2	38,830	1/2	23,860	1/2	8,792	1/2		1/2		1/2		1/2	
3/4	82,649	3/4	67,581	3/4	52,996	3/4	38,528	3/4	23,546	3/4	8,479	3/4		3/4		3/4		3/4	
4	82,335	4	67,268	4	52,694	4	38,227	4	23,232	4	8,165	4		4		4		4	
1/4	82,021	1/4	66,954	1/4	52,392	1/4	37,924	1/4	22,918	1/4	7,851	1/4		1/4		1/4		1/4	
1/2	81,708	1/2	66,640	1/2	52,090	1/2	37,622	1/2	22,604	1/2	7,537	1/2		1/2		1/2		1/2	
3/4	81,394	3/4	66,326	3/4	51,787	3/4	37,320	3/4	22,290	3/4	7,223	3/4		3/4		3/4		3/4	
5	81,080	5	66,012	5	51,485	5	37,018	5	21,976	5	6,909	5		5		5		5	
1/4	80,766	1/4	65,704	1/4	51,184	1/4	36,710	1/4	21,663	1/4	6,595	1/4		1/4		1/4		1/4	
1/2	80,452	1/2	65,396	1/2	50,882	1/2	36,402	1/2	21,349	1/2	6,281	1/2		1/2		1/2		1/2	
3/4	80,138	3/4	65,088	3/4	50,580	3/4	36,094	3/4	21,035	3/4	5,967	3/4		3/4		3/4		3/4	
6	79,824	6	64,780	6	50,278	6	35,786	6	20,721	6	5,654	6		6		6		6	
1/4	79,510	1/4	64,478	1/4	49,977	1/4	35,472	1/4	20,407	1/4	5,340	1/4		1/4		1/4		1/4	
1/2	79,196	1/2	64,175	1/2	49,675	1/2	35,158	1/2	20,093	1/2	5,026	1/2		1/2		1/2		1/2	
3/4	78,882	3/4	63,873	3/4	49,374	3/4	34,844	3/4	19,779	3/4	4,713	3/4		3/4		3/4		3/4	
7	78,568	7	63,571	7	49,072	7	34,530	7	19,465	7	4,399	7		7		7		7	
1/4	78,254	1/4	63,269	1/4	48,771	1/4	34,216	1/4	19,151	1/4	4,086	1/4		1/4		1/4		1/4	
1/2	77,941	1/2	62,967	1/2	48,470	1/2	33,903	1/2	18,837	1/2	3,773	1/2		1/2		1/2		1/2	
3/4	77,627	3/4	62,665	3/4	48,168	3/4	33,589	3/4	18,524	3/4	3,460	3/4		3/4		3/4		3/4	
8	77,313	8	62,363	8	47,867	8	33,275	8	18,210	8	3,147	8		8		8		8	
1/4	76,999	1/4	62,060	1/4	47,566	1/4	32,961	1/4	17,896	1/4	2,854	1/4		1/4		1/4		1/4	
1/2	76,685	1/2	61,758	1/2	47,265	1/2	32,647	1/2	17,582	1/2	2,560	1/2		1/2		1/2		1/2	
3/4	76,371	3/4	61,456	3/4	46,963	3/4	32,333	3/4	17,268	3/4	2,267	3/4		3/4		3/4		3/4	
9	76,057	9	61,154	9	46,662	9	32,019	9	16,954	9	1,973	9		9		9		9	
1/4	75,743	1/4	60,852	1/4	46,361	1/4	31,705	1/4	16,640	1/4	1,738	1/4		1/4		1/4		1/4	
1/2	75,429	1/2	60,550	1/2	46,060	1/2	31,391	1/2	16,326	1/2	1,503	1/2		1/2		1/2		1/2	
3/4	75,115	3/4	60,248	3/4	45,759	3/4	31,077	3/4	16,012	3/4	1,267	3/4		3/4		3/4		3/4	
10	74,801	10	59,945	10	45,457	10	30,764	10	15,698	10	1,032	10		10		10		10	
1/4	74,488	1/4	59,643	1/4	45,156	1/4	30,450	1/4	15,384	1/4		1/4		1/4		1/4		1/4	
1/2	74,174	1/2	59,341	1/2	44,855	1/2	30,136	1/2	15,071	1/2		1/2		1/2		1/2		1/2	
3/4	73,860	3/4	59,039	3/4	44,554	3/4	29,822	3/4	14,757	3/4		3/4		3/4		3/4		3/4	
11	73,546	11	58,737	11	44,253	11	29,508	11	14,443	11		11		11		11		11	
1/4	73,232	1/4	58,435	1/4	43,951	1/4	29,194	1/4	14,129	1/4		1/4		1/4		1/4		1/4	
1/2	72,918	1/2	58,133	1/2	43,650	1/2	28,881	1/2	13,815	1/2		1/2		1/2		1/2		1/2	
3/4	72,604	3/4	57,830	3/4	43,349	3/4	28,567	3/4	13,501	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/27/2015 CL
CALCULATED: 10/27/2015 CL
PRINTED: 10/27/2015 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2015

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



BARGE "HFL 435"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	206,144	0	191,207	0	176,230	0	161,211	0	146,190	0	131,169	0	116,148	0	101,124
1/4		1/4		1/4	205,835	1/4	190,895	1/4	175,918	1/4	160,898	1/4	145,877	1/4	130,856	1/4	115,835	1/4	100,811
1/2		1/2		1/2	205,525	1/2	190,583	1/2	175,605	1/2	160,585	1/2	145,564	1/2	130,543	1/2	115,522	1/2	100,498
3/4		3/4		3/4	205,215	3/4	190,271	3/4	175,293	3/4	160,272	3/4	145,251	3/4	130,230	3/4	115,209	3/4	100,185
1		1		1	204,905	1	189,959	1	174,980	1	159,959	1	144,938	1	129,917	1	114,896	1	99,872
1/4		1/4		1/4	204,595	1/4	189,647	1/4	174,668	1/4	159,646	1/4	144,625	1/4	129,604	1/4	114,583	1/4	99,559
1/2		1/2		1/2	204,285	1/2	189,335	1/2	174,355	1/2	159,333	1/2	144,312	1/2	129,291	1/2	114,270	1/2	99,246
3/4		3/4		3/4	203,975	3/4	189,023	3/4	174,042	3/4	159,020	3/4	143,999	3/4	128,978	3/4	113,957	3/4	98,932
2		2		2	203,665	2	188,711	2	173,729	2	158,708	2	143,686	2	128,665	2	113,644	2	98,619
1/4		1/4		1/4	203,355	1/4	188,399	1/4	173,416	1/4	158,395	1/4	143,373	1/4	128,352	1/4	113,331	1/4	98,306
1/2		1/2		1/2	203,045	1/2	188,087	1/2	173,103	1/2	158,082	1/2	143,060	1/2	128,039	1/2	113,018	1/2	97,993
3/4		3/4		3/4	202,735	3/4	187,775	3/4	172,790	3/4	157,769	3/4	142,747	3/4	127,726	3/4	112,705	3/4	97,680
3		3		3	202,425	3	187,463	3	172,477	3	157,456	3	142,435	3	127,413	3	112,393	3	97,367
1/4		1/4		1/4	202,115	1/4	187,151	1/4	172,164	1/4	157,143	1/4	142,122	1/4	127,101	1/4	112,080	1/4	97,054
1/2		1/2		1/2	201,805	1/2	186,839	1/2	171,851	1/2	156,830	1/2	141,809	1/2	126,788	1/2	111,767	1/2	96,741
3/4		3/4		3/4	201,495	3/4	186,527	3/4	171,538	3/4	156,517	3/4	141,496	3/4	126,475	3/4	111,454	3/4	96,428
4		4		4	201,185	4	186,214	4	171,225	4	156,204	4	141,183	4	126,162	4	111,141	4	96,115
1/4		1/4		1/4	200,876	1/4	185,902	1/4	170,912	1/4	155,891	1/4	140,870	1/4	125,849	1/4	110,828	1/4	95,802
1/2		1/2		1/2	200,565	1/2	185,590	1/2	170,599	1/2	155,578	1/2	140,557	1/2	125,536	1/2	110,515	1/2	95,489
3/4		3/4		3/4	200,254	3/4	185,278	3/4	170,286	3/4	155,265	3/4	140,244	3/4	125,223	3/4	110,202	3/4	95,176
5		5		5	199,943	5	184,966	5	169,973	5	154,952	5	139,931	5	124,910	5	109,889	5	94,862
1/4		1/4		1/4	199,632	1/4	184,654	1/4	169,660	1/4	154,639	1/4	139,618	1/4	124,597	1/4	109,576	1/4	94,549
1/2		1/2		1/2	199,320	1/2	184,342	1/2	169,348	1/2	154,326	1/2	139,305	1/2	124,284	1/2	109,263	1/2	94,236
3/4		3/4		3/4	199,008	3/4	184,030	3/4	169,035	3/4	154,013	3/4	138,992	3/4	123,971	3/4	108,950	3/4	93,923
6		6		6	198,696	6	183,718	6	168,722	6	153,700	6	138,679	6	123,658	6	108,637	6	93,610
1/4		1/4		1/4	198,384	1/4	183,406	1/4	168,409	1/4	153,388	1/4	138,366	1/4	123,345	1/4	108,324	1/4	93,297
1/2		1/2		1/2	198,072	1/2	183,094	1/2	168,096	1/2	153,075	1/2	138,053	1/2	123,032	1/2	108,011	1/2	92,984
3/4		3/4		3/4	197,760	3/4	182,782	3/4	167,783	3/4	152,762	3/4	137,740	3/4	122,719	3/4	107,698	3/4	92,671
7		7		7	197,448	7	182,470	7	167,470	7	152,449	7	137,427	7	122,406	7	107,385	7	92,358
1/4		1/4		1/4	211,062	1/4	197,135	1/4	182,158	1/4	167,157	1/4	152,136	1/4	137,115	1/4	122,094	1/4	92,045
1/2		1/2		1/2	210,883	1/2	196,823	1/2	181,846	1/2	166,844	1/2	151,823	1/2	136,802	1/2	121,781	1/2	91,732
3/4		3/4		3/4	210,703	3/4	196,511	3/4	181,534	3/4	166,531	3/4	151,510	3/4	136,489	3/4	121,468	3/4	91,419
8		8		8	210,523	8	196,199	8	181,222	8	166,218	8	151,197	8	136,176	8	121,155	8	91,106
1/4		1/4		1/4	210,344	1/4	195,887	1/4	180,910	1/4	165,905	1/4	150,884	1/4	135,863	1/4	120,842	1/4	90,793
1/2		1/2		1/2	210,112	1/2	195,575	1/2	180,598	1/2	165,592	1/2	150,571	1/2	135,550	1/2	120,529	1/2	90,479
3/4		3/4		3/4	209,880	3/4	195,263	3/4	180,286	3/4	165,279	3/4	150,258	3/4	135,237	3/4	120,216	3/4	90,166
9		9		9	209,649	9	194,951	9	179,974	9	164,966	9	149,945	9	134,924	9	119,903	9	89,853
1/4		1/4		1/4	209,417	1/4	194,639	1/4	179,662	1/4	164,653	1/4	149,632	1/4	134,611	1/4	119,590	1/4	89,540
1/2		1/2		1/2	209,137	1/2	194,327	1/2	179,350	1/2	164,340	1/2	149,319	1/2	134,298	1/2	119,277	1/2	89,227
3/4		3/4		3/4	208,856	3/4	194,015	3/4	179,038	3/4	164,028	3/4	149,006	3/4	133,985	3/4	118,964	3/4	88,914
10		10		10	208,576	10	193,703	10	178,726	10	163,715	10	148,693	10	133,672	10	118,651	10	88,601
1/4		1/4		1/4	208,296	1/4	193,391	1/4	178,414	1/4	163,402	1/4	148,380	1/4	133,359	1/4	118,338	1/4	88,288
1/2		1/2		1/2	207,990	1/2	193,079	1/2	178,102	1/2	163,089	1/2	148,067	1/2	133,046	1/2	118,025	1/2	87,975
3/4		3/4		3/4	207,685	3/4	192,767	3/4	177,790	3/4	162,776	3/4	147,755	3/4	132,733	3/4	117,712	3/4	87,662
11		11		11	207,379	11	192,455	11	177,478	11	162,463	11	147,442	11	132,420	11	117,399	11	87,349
1/4		1/4		1/4	207,073	1/4	192,143	1/4	177,166	1/4	162,150	1/4	147,129	1/4	132,108	1/4	117,087	1/4	87,036
1/2		1/2		1/2	206,763	1/2	191,831	1/2	176,854	1/2	161,837	1/2	146,816	1/2	131,795	1/2	116,774	1/2	86,723
3/4		3/4		3/4	206,454	3/4	191,519	3/4	176,542	3/4	161,524	3/4	146,503	3/4	131,482	3/4	116,461	3/4	86,410

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" "HERMETIC" VALVE
GAUGE POINT: (HERMETIC) LOCATED 10'-09" OFF CENTERLINE AND 43'-3" FORWARD OF AFT BULKHEAD

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "HFL 435"

1 STBD
ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

Gauge Height 15'-10 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	86,096	0	71,069	0	56,046	0	41,022	0	25,995	0	11,184	0		0		0		0	
1/4	85,783	1/4	70,756	1/4	55,733	1/4	40,709	1/4	25,682	1/4	10,890	1/4		1/4		1/4		1/4	
1/2	85,470	1/2	70,443	1/2	55,420	1/2	40,396	1/2	25,369	1/2	10,600	1/2		1/2		1/2		1/2	
3/4	85,157	3/4	70,130	3/4	55,107	3/4	40,083	3/4	25,056	3/4	10,310	3/4		3/4		3/4		3/4	
1	84,844	1	69,817	1	54,795	1	39,769	1	24,742	1	10,020	1		1		1		1	
1/4	84,531	1/4	69,504	1/4	54,482	1/4	39,456	1/4	24,429	1/4	9,730	1/4		1/4		1/4		1/4	
1/2	84,218	1/2	69,191	1/2	54,169	1/2	39,143	1/2	24,116	1/2	9,444	1/2		1/2		1/2		1/2	
3/4	83,905	3/4	68,877	3/4	53,856	3/4	38,830	3/4	23,803	3/4	9,158	3/4		3/4		3/4		3/4	
2	83,592	2	68,564	2	53,543	2	38,517	2	23,490	2	8,872	2		2		2		2	
1/4	83,279	1/4	68,251	1/4	53,230	1/4	38,204	1/4	23,177	1/4	8,586	1/4		1/4		1/4		1/4	
1/2	82,966	1/2	67,938	1/2	52,917	1/2	37,891	1/2	22,864	1/2	8,303	1/2		1/2		1/2		1/2	
3/4	82,653	3/4	67,625	3/4	52,605	3/4	37,578	3/4	22,551	3/4	8,021	3/4		3/4		3/4		3/4	
3	82,340	3	67,312	3	52,292	3	37,265	3	22,238	3	7,739	3		3		3		3	
1/4	82,027	1/4	66,999	1/4	51,979	1/4	36,952	1/4	21,925	1/4	7,457	1/4		1/4		1/4		1/4	
1/2	81,713	1/2	66,686	1/2	51,666	1/2	36,639	1/2	21,612	1/2	7,178	1/2		1/2		1/2		1/2	
3/4	81,400	3/4	66,373	3/4	51,353	3/4	36,326	3/4	21,299	3/4	6,900	3/4		3/4		3/4		3/4	
4	81,087	4	66,060	4	51,040	4	36,013	4	20,986	4	6,622	4		4		4		4	
1/4	80,774	1/4	65,747	1/4	50,727	1/4	35,700	1/4	20,673	1/4	6,343	1/4		1/4		1/4		1/4	
1/2	80,461	1/2	65,434	1/2	50,414	1/2	35,387	1/2	20,360	1/2	6,069	1/2		1/2		1/2		1/2	
3/4	80,148	3/4	65,121	3/4	50,101	3/4	35,074	3/4	20,047	3/4	5,794	3/4		3/4		3/4		3/4	
5	79,835	5	64,808	5	49,787	5	34,760	5	19,733	5	5,520	5		5		5		5	
1/4	79,522	1/4	64,494	1/4	49,474	1/4	34,447	1/4	19,420	1/4	5,245	1/4		1/4		1/4		1/4	
1/2	79,209	1/2	64,181	1/2	49,161	1/2	34,134	1/2	19,107	1/2	4,974	1/2		1/2		1/2		1/2	
3/4	78,896	3/4	63,868	3/4	48,848	3/4	33,821	3/4	18,794	3/4	4,704	3/4		3/4		3/4		3/4	
6	78,583	6	63,555	6	48,535	6	33,508	6	18,481	6	4,433	6		6		6		6	
1/4	78,270	1/4	63,242	1/4	48,222	1/4	33,195	1/4	18,168	1/4	4,163	1/4		1/4		1/4		1/4	
1/2	77,957	1/2	62,929	1/2	47,909	1/2	32,882	1/2	17,856	1/2	3,896	1/2		1/2		1/2		1/2	
3/4	77,644	3/4	62,616	3/4	47,596	3/4	32,569	3/4	17,544	3/4	3,629	3/4		3/4		3/4		3/4	
7	77,330	7	62,303	7	47,283	7	32,256	7	17,232	7	3,363	7		7		7		7	
1/4	77,017	1/4	61,990	1/4	46,970	1/4	31,943	1/4	16,920	1/4	3,096	1/4		1/4		1/4		1/4	
1/2	76,704	1/2	61,677	1/2	46,657	1/2	31,630	1/2	16,611	1/2	2,834	1/2		1/2		1/2		1/2	
3/4	76,391	3/4	61,364	3/4	46,344	3/4	31,317	3/4	16,301	3/4	2,572	3/4		3/4		3/4		3/4	
8	76,078	8	61,051	8	46,031	8	31,004	8	15,992	8	2,310	8		8		8		8	
1/4	75,765	1/4	60,739	1/4	45,718	1/4	30,691	1/4	15,683	1/4	2,048	1/4		1/4		1/4		1/4	
1/2	75,452	1/2	60,426	1/2	45,405	1/2	30,378	1/2	15,378	1/2	1,810	1/2		1/2		1/2		1/2	
3/4	75,139	3/4	60,113	3/4	45,092	3/4	30,065	3/4	15,072	3/4	1,571	3/4		3/4		3/4		3/4	
9	74,826	9	59,800	9	44,778	9	29,751	9	14,767	9	1,332	9		9		9		9	
1/4	74,513	1/4	59,487	1/4	44,465	1/4	29,438	1/4	14,461	1/4	1,093	1/4		1/4		1/4		1/4	
1/2	74,200	1/2	59,174	1/2	44,152	1/2	29,125	1/2	14,160	1/2	916	1/2		1/2		1/2		1/2	
3/4	73,887	3/4	58,861	3/4	43,839	3/4	28,812	3/4	13,858	3/4	739	3/4		3/4		3/4		3/4	
10	73,574	10	58,549	10	43,526	10	28,499	10	13,557	10	562	10		10		10		10	
1/4	73,260	1/4	58,236	1/4	43,213	1/4	28,186	1/4	13,255	1/4	385	1/4		1/4		1/4		1/4	
1/2	72,947	1/2	57,923	1/2	42,900	1/2	27,873	1/2	12,958	1/2		1/2		1/2		1/2		1/2	
3/4	72,634	3/4	57,610	3/4	42,587	3/4	27,560	3/4	12,660	3/4		3/4		3/4		3/4		3/4	
11	72,321	11	57,297	11	42,274	11	27,247	11	12,363	11		11		11		11		11	
1/4	72,008	1/4	56,984	1/4	41,961	1/4	26,934	1/4	12,065	1/4		1/4		1/4		1/4		1/4	
1/2	71,695	1/2	56,672	1/2	41,648	1/2	26,621	1/2	11,771	1/2		1/2		1/2		1/2		1/2	
3/4	71,382	3/4	56,359	3/4	41,335	3/4	26,308	3/4	11,477	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/27/2015 CL
CALCULATED: 10/27/2015 CL
PRINTED: 10/27/2015 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2015

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



BARGE "HFL 435"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10"

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	205,790	0	190,847	0	175,866	0	160,843	0	145,818	0	130,793	0	115,768	0	100,740
1/4		1/4		1/4	205,480	1/4	190,535	1/4	175,553	1/4	160,530	1/4	145,505	1/4	130,480	1/4	115,455	1/4	100,427
1/2		1/2		1/2	205,170	1/2	190,223	1/2	175,241	1/2	160,217	1/2	145,192	1/2	130,167	1/2	115,142	1/2	100,114
3/4		3/4		3/4	204,860	3/4	189,911	3/4	174,928	3/4	159,904	3/4	144,879	3/4	129,854	3/4	114,829	3/4	99,801
1		1		1	204,550	1	189,598	1	174,615	1	159,591	1	144,566	1	129,541	1	114,516	1	99,487
1/4		1/4		1/4	204,240	1/4	189,286	1/4	174,302	1/4	159,278	1/4	144,253	1/4	129,228	1/4	114,203	1/4	99,174
1/2		1/2		1/2	203,930	1/2	188,974	1/2	173,989	1/2	158,965	1/2	143,940	1/2	128,915	1/2	113,890	1/2	98,861
3/4		3/4		3/4	203,620	3/4	188,662	3/4	173,676	3/4	158,652	3/4	143,627	3/4	128,602	3/4	113,577	3/4	98,548
2		2		2	203,310	2	188,350	2	173,363	2	158,339	2	143,314	2	128,289	2	113,264	2	98,235
1/4		1/4		1/4	203,000	1/4	188,038	1/4	173,050	1/4	158,025	1/4	143,001	1/4	127,976	1/4	113,951	1/4	97,922
1/2		1/2		1/2	202,690	1/2	187,726	1/2	172,737	1/2	157,712	1/2	142,688	1/2	127,663	1/2	112,638	1/2	97,608
3/4		3/4		3/4	202,380	3/4	187,414	3/4	172,424	3/4	157,399	3/4	142,375	3/4	127,350	3/4	112,325	3/4	97,295
3		3		3	202,070	3	187,102	3	172,111	3	157,086	3	142,062	3	127,037	3	112,012	3	96,982
1/4		1/4		1/4	201,760	1/4	186,789	1/4	171,798	1/4	156,773	1/4	141,748	1/4	126,724	1/4	111,699	1/4	96,669
1/2		1/2		1/2	201,450	1/2	186,477	1/2	171,485	1/2	156,460	1/2	141,435	1/2	126,411	1/2	111,386	1/2	96,356
3/4		3/4		3/4	201,140	3/4	186,165	3/4	171,172	3/4	156,147	3/4	141,122	3/4	126,098	3/4	111,073	3/4	96,043
4		4		4	200,830	4	185,853	4	170,859	4	155,834	4	140,809	4	125,785	4	110,760	4	95,730
1/4		1/4		1/4	200,519	1/4	185,541	1/4	170,546	1/4	155,521	1/4	140,496	1/4	125,472	1/4	110,447	1/4	95,416
1/2		1/2		1/2	200,208	1/2	185,229	1/2	170,233	1/2	155,208	1/2	140,183	1/2	125,158	1/2	110,134	1/2	95,103
3/4		3/4		3/4	199,897	3/4	184,917	3/4	169,920	3/4	154,895	3/4	139,870	3/4	124,845	3/4	109,821	3/4	94,790
5		5		5	199,586	5	184,605	5	169,607	5	154,582	5	139,557	5	124,532	5	109,508	5	94,477
1/4		1/4		1/4	199,274	1/4	184,293	1/4	169,294	1/4	154,269	1/4	139,244	1/4	124,219	1/4	109,195	1/4	94,164
1/2		1/2		1/2	198,962	1/2	183,981	1/2	168,981	1/2	153,956	1/2	138,931	1/2	123,906	1/2	108,881	1/2	93,851
3/4		3/4		3/4	198,649	3/4	183,668	3/4	168,668	3/4	153,643	3/4	138,618	3/4	123,593	3/4	108,568	3/4	93,537
6		6		6	198,337	6	183,356	6	168,355	6	153,330	6	138,305	6	123,280	6	108,255	6	93,224
1/4		1/4		1/4	198,025	1/4	183,044	1/4	168,042	1/4	153,017	1/4	137,992	1/4	122,967	1/4	107,942	1/4	92,911
1/2		1/2		1/2	197,713	1/2	182,732	1/2	167,729	1/2	152,704	1/2	137,679	1/2	122,654	1/2	107,629	1/2	92,598
3/4		3/4		3/4	197,401	3/4	182,420	3/4	167,416	3/4	152,391	3/4	137,366	3/4	122,341	3/4	107,316	3/4	92,285
7		7	211,019	7	197,089	7	182,108	7	167,103	7	152,078	7	137,053	7	122,028	7	107,003	7	91,972
1/4		1/4	210,839	1/4	196,777	1/4	181,796	1/4	166,790	1/4	151,765	1/4	136,740	1/4	121,715	1/4	106,690	1/4	91,659
1/2		1/2	210,660	1/2	196,465	1/2	181,484	1/2	166,477	1/2	151,452	1/2	136,427	1/2	121,402	1/2	106,377	1/2	91,345
3/4		3/4	210,480	3/4	196,153	3/4	181,172	3/4	166,164	3/4	151,139	3/4	136,114	3/4	121,089	3/4	106,064	3/4	91,032
8		8	210,301	8	195,841	8	180,859	8	165,851	8	150,826	8	135,801	8	120,776	8	105,750	8	90,719
1/4		1/4	210,069	1/4	195,528	1/4	180,547	1/4	165,538	1/4	150,513	1/4	135,488	1/4	120,463	1/4	105,437	1/4	90,406
1/2		1/2	209,837	1/2	195,216	1/2	180,235	1/2	165,225	1/2	150,200	1/2	135,175	1/2	120,150	1/2	105,124	1/2	90,093
3/4		3/4	209,605	3/4	194,904	3/4	179,923	3/4	164,912	3/4	149,887	3/4	134,862	3/4	119,837	3/4	104,811	3/4	89,780
9		9	209,373	9	194,592	9	179,611	9	164,599	9	149,574	9	134,549	9	119,524	9	104,498	9	89,466
1/4		1/4	209,093	1/4	194,280	1/4	179,299	1/4	164,286	1/4	149,261	1/4	134,236	1/4	119,211	1/4	104,185	1/4	89,153
1/2		1/2	208,813	1/2	193,968	1/2	178,987	1/2	163,973	1/2	148,948	1/2	133,923	1/2	118,898	1/2	103,872	1/2	88,840
3/4		3/4	208,533	3/4	193,656	3/4	178,675	3/4	163,660	3/4	148,635	3/4	133,610	3/4	118,585	3/4	103,558	3/4	88,527
10		10	208,252	10	193,344	10	178,363	10	163,347	10	148,322	10	133,297	10	118,272	10	103,245	10	88,214
1/4		1/4	207,946	1/4	193,032	1/4	178,050	1/4	163,034	1/4	148,009	1/4	132,984	1/4	117,959	1/4	102,932	1/4	87,901
1/2		1/2	207,641	1/2	192,719	1/2	177,738	1/2	162,721	1/2	147,696	1/2	132,671	1/2	117,646	1/2	102,619	1/2	87,588
3/4		3/4	207,335	3/4	192,407	3/4	177,426	3/4	162,408	3/4	147,383	3/4	132,358	3/4	117,333	3/4	102,306	3/4	87,274
11		11	207,029	11	192,095	11	177,114	11	162,095	11	147,070	11	132,045	11	117,020	11	101,993	11	86,961
1/4		1/4	206,719	1/4	191,783	1/4	176,802	1/4	161,782	1/4	146,757	1/4	131,732	1/4	116,707	1/4	101,679	1/4	86,648
1/2		1/2	206,410	1/2	191,471	1/2	176,490	1/2	161,469	1/2	146,444	1/2	131,419	1/2	116,394	1/2	101,366	1/2	86,335
3/4		3/4	206,100	3/4	191,159	3/4	176,178	3/4	161,156	3/4	146,131	3/4	131,106	3/4	116,081	3/4	101,053	3/4	86,022

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" "HERMETIC" VALVE
GAUGE POINT: (HERMETIC) LOCATED 10'-09" OFF CENTERLINE AND 43'-3" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "HFL 435"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10"

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	85,709	0	70,677	0	55,707	0	40,719	0	25,688	0	10,892	0		0		0		0	
1/4	85,395	1/4	70,364	1/4	55,397	1/4	40,406	1/4	25,375	1/4	10,602	1/4		1/4		1/4		1/4	
1/2	85,082	1/2	70,051	1/2	55,086	1/2	40,093	1/2	25,062	1/2	10,312	1/2		1/2		1/2		1/2	
3/4	84,769	3/4	69,738	3/4	54,775	3/4	39,780	3/4	24,749	3/4	10,022	3/4		3/4		3/4		3/4	
1	84,456	1	69,425	1	54,464	1	39,467	1	24,436	1	9,732	1		1		1		1	
1/4	84,143	1/4	69,111	1/4	54,154	1/4	39,154	1/4	24,123	1/4	9,446	1/4		1/4		1/4		1/4	
1/2	83,830	1/2	68,798	1/2	53,843	1/2	38,840	1/2	23,809	1/2	9,160	1/2		1/2		1/2		1/2	
3/4	83,517	3/4	68,485	3/4	53,532	3/4	38,527	3/4	23,496	3/4	8,874	3/4		3/4		3/4		3/4	
2	83,203	2	68,172	2	53,221	2	38,214	2	23,183	2	8,588	2		2		2		2	
1/4	82,890	1/4	67,859	1/4	52,910	1/4	37,901	1/4	22,870	1/4	8,305	1/4		1/4		1/4		1/4	
1/2	82,577	1/2	67,546	1/2	52,599	1/2	37,588	1/2	22,557	1/2	8,023	1/2		1/2		1/2		1/2	
3/4	82,264	3/4	67,232	3/4	52,288	3/4	37,275	3/4	22,244	3/4	7,741	3/4		3/4		3/4		3/4	
3	81,951	3	66,919	3	51,977	3	36,962	3	21,931	3	7,459	3		3		3		3	
1/4	81,638	1/4	66,606	1/4	51,666	1/4	36,648	1/4	21,617	1/4	7,180	1/4		1/4		1/4		1/4	
1/2	81,324	1/2	66,293	1/2	51,354	1/2	36,335	1/2	21,304	1/2	6,902	1/2		1/2		1/2		1/2	
3/4	81,011	3/4	65,980	3/4	51,043	3/4	36,022	3/4	20,991	3/4	6,623	3/4		3/4		3/4		3/4	
4	80,698	4	65,667	4	50,731	4	35,709	4	20,678	4	6,345	4		4		4		4	
1/4	80,385	1/4	65,354	1/4	50,420	1/4	35,396	1/4	20,365	1/4	6,070	1/4		1/4		1/4		1/4	
1/2	80,072	1/2	65,041	1/2	50,108	1/2	35,083	1/2	20,052	1/2	5,796	1/2		1/2		1/2		1/2	
3/4	79,759	3/4	64,728	3/4	49,796	3/4	34,770	3/4	19,739	3/4	5,521	3/4		3/4		3/4		3/4	
5	79,445	5	64,415	5	49,484	5	34,456	5	19,425	5	5,246	5		5		5		5	
1/4	79,132	1/4	64,103	1/4	49,172	1/4	34,143	1/4	19,112	1/4	4,976	1/4		1/4		1/4		1/4	
1/2	78,819	1/2	63,791	1/2	48,860	1/2	33,830	1/2	18,799	1/2	4,705	1/2		1/2		1/2		1/2	
3/4	78,506	3/4	63,479	3/4	48,547	3/4	33,517	3/4	18,486	3/4	4,434	3/4		3/4		3/4		3/4	
6	78,193	6	63,167	6	48,235	6	33,204	6	18,173	6	4,164	6		6		6		6	
1/4	77,880	1/4	62,856	1/4	47,922	1/4	32,891	1/4	17,861	1/4	3,897	1/4		1/4		1/4		1/4	
1/2	77,567	1/2	62,545	1/2	47,608	1/2	32,577	1/2	17,548	1/2	3,630	1/2		1/2		1/2		1/2	
3/4	77,253	3/4	62,234	3/4	47,295	3/4	32,264	3/4	17,236	3/4	3,364	3/4		3/4		3/4		3/4	
7	76,940	7	61,923	7	46,982	7	31,951	7	16,924	7	3,097	7		7		7		7	
1/4	76,627	1/4	61,613	1/4	46,669	1/4	31,638	1/4	16,615	1/4	2,835	1/4		1/4		1/4		1/4	
1/2	76,314	1/2	61,302	1/2	46,356	1/2	31,325	1/2	16,306	1/2	2,573	1/2		1/2		1/2		1/2	
3/4	76,001	3/4	60,991	3/4	46,043	3/4	31,012	3/4	15,996	3/4	2,311	3/4		3/4		3/4		3/4	
8	75,688	8	60,680	8	45,730	8	30,699	8	15,687	8	2,049	8		8		8		8	
1/4	75,374	1/4	60,369	1/4	45,416	1/4	30,385	1/4	15,381	1/4	1,810	1/4		1/4		1/4		1/4	
1/2	75,061	1/2	60,058	1/2	45,103	1/2	30,072	1/2	15,076	1/2	1,571	1/2		1/2		1/2		1/2	
3/4	74,748	3/4	59,748	3/4	44,790	3/4	29,759	3/4	14,771	3/4	1,332	3/4		3/4		3/4		3/4	
9	74,435	9	59,437	9	44,477	9	29,446	9	14,465	9	1,094	9		9		9		9	
1/4	74,122	1/4	59,126	1/4	44,164	1/4	29,133	1/4	14,164	1/4	917	1/4		1/4		1/4		1/4	
1/2	73,809	1/2	58,815	1/2	43,851	1/2	28,820	1/2	13,862	1/2	740	1/2		1/2		1/2		1/2	
3/4	73,496	3/4	58,505	3/4	43,538	3/4	28,507	3/4	13,560	3/4	563	3/4		3/4		3/4		3/4	
10	73,182	10	58,194	10	43,224	10	28,193	10	13,259	10	386	10		10		10		10	
1/4	72,869	1/4	57,883	1/4	42,911	1/4	27,880	1/4	12,961	1/4		1/4		1/4		1/4		1/4	
1/2	72,556	1/2	57,572	1/2	42,598	1/2	27,567	1/2	12,663	1/2		1/2		1/2		1/2		1/2	
3/4	72,243	3/4	57,261	3/4	42,285	3/4	27,254	3/4	12,366	3/4		3/4		3/4		3/4		3/4	
11	71,930	11	56,951	11	41,972	11	26,941	11	12,068	11		11		11		11		11	
1/4	71,617	1/4	56,640	1/4	41,659	1/4	26,628	1/4	11,774	1/4		1/4		1/4		1/4		1/4	
1/2	71,303	1/2	56,329	1/2	41,346	1/2	26,315	1/2	11,480	1/2		1/2		1/2		1/2		1/2	
3/4	70,990	3/4	56,018	3/4	41,032	3/4	26,001	3/4	11,186	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/27/2015 CL
CALCULATED: 10/27/2015 CL
PRINTED: 10/27/2015 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2015

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



BARGE "HFL 435"

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	4,619	0	3,464	0	2,310	0	1,155	0		0		0		0	
1/4		1/4		1/4	4,595	1/4	3,440	1/4	2,286	1/4	1,131	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,570	1/2	3,415	1/2	2,262	1/2	1,107	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,546	3/4	3,391	3/4	2,238	3/4	1,083	3/4		3/4		3/4		3/4	
1		1		1	4,522	1	3,367	1	2,214	1	1,059	1		1		1		1	
1/4		1/4		1/4	4,498	1/4	3,343	1/4	2,190	1/4	1,035	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,474	1/2	3,319	1/2	2,165	1/2	1,011	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,450	3/4	3,295	3/4	2,141	3/4	987	3/4		3/4		3/4		3/4	
2		2		2	4,426	2	3,271	2	2,117	2	963	2		2		2		2	
1/4		1/4		1/4	4,402	1/4	3,247	1/4	2,093	1/4	938	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,378	1/2	3,223	1/2	2,069	1/2	914	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,354	3/4	3,199	3/4	2,045	3/4	890	3/4		3/4		3/4		3/4	
3		3		3	4,330	3	3,175	3	2,021	3	866	3		3		3		3	
1/4		1/4		1/4	4,306	1/4	3,151	1/4	1,997	1/4	842	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,282	1/2	3,127	1/2	1,973	1/2	818	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,258	3/4	3,103	3/4	1,949	3/4	794	3/4		3/4		3/4		3/4	
4		4		4	4,234	4	3,079	4	1,925	4	770	4		4		4		4	
1/4		1/4		1/4	4,210	1/4	3,054	1/4	1,901	1/4	746	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,185	1/2	3,030	1/2	1,877	1/2	722	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,161	3/4	3,006	3/4	1,853	3/4	698	3/4		3/4		3/4		3/4	
5		5		5	4,137	5	2,982	5	1,829	5	674	5		5		5		5	
1/4		1/4		1/4	4,113	1/4	2,958	1/4	1,805	1/4	650	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,089	1/2	2,934	1/2	1,780	1/2	626	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,065	3/4	2,910	3/4	1,756	3/4	602	3/4		3/4		3/4		3/4	
6		6	5,140	6	4,041	6	2,886	6	1,732	6	578	6		6		6		6	
1/4		1/4	5,128	1/4	4,017	1/4	2,862	1/4	1,708	1/4	553	1/4		1/4		1/4		1/4	
1/2		1/2	5,117	1/2	3,993	1/2	2,838	1/2	1,684	1/2	529	1/2		1/2		1/2		1/2	
3/4		3/4	5,105	3/4	3,969	3/4	2,814	3/4	1,660	3/4	505	3/4		3/4		3/4		3/4	
7		7	5,093	7	3,945	7	2,790	7	1,636	7	481	7		7		7		7	
1/4		1/4	5,070	1/4	3,921	1/4	2,766	1/4	1,612	1/4	457	1/4		1/4		1/4		1/4	
1/2		1/2	5,046	1/2	3,897	1/2	2,742	1/2	1,588	1/2	433	1/2		1/2		1/2		1/2	
3/4		3/4	5,023	3/4	3,873	3/4	2,718	3/4	1,564	3/4	409	3/4		3/4		3/4		3/4	
8		8	4,999	8	3,849	8	2,694	8	1,540	8	385	8		8		8		8	
1/4		1/4	4,975	1/4	3,825	1/4	2,670	1/4	1,516	1/4	361	1/4		1/4		1/4		1/4	
1/2		1/2	4,952	1/2	3,800	1/2	2,646	1/2	1,492	1/2	337	1/2		1/2		1/2		1/2	
3/4		3/4	4,928	3/4	3,776	3/4	2,622	3/4	1,468	3/4	313	3/4		3/4		3/4		3/4	
9		9	4,904	9	3,752	9	2,597	9	1,444	9	289	9		9		9		9	
1/4		1/4	4,881	1/4	3,728	1/4	2,574	1/4	1,419	1/4	265	1/4		1/4		1/4		1/4	
1/2		1/2	4,857	1/2	3,704	1/2	2,550	1/2	1,395	1/2	241	1/2		1/2		1/2		1/2	
3/4		3/4	4,833	3/4	3,680	3/4	2,526	3/4	1,371	3/4	217	3/4		3/4		3/4		3/4	
10		10	4,810	10	3,656	10	2,502	10	1,347	10	193	10		10		10		10	
1/4		1/4	4,786	1/4	3,632	1/4	2,478	1/4	1,323	1/4	168	1/4		1/4		1/4		1/4	
1/2		1/2	4,762	1/2	3,608	1/2	2,454	1/2	1,299	1/2	144	1/2		1/2		1/2		1/2	
3/4		3/4	4,739	3/4	3,584	3/4	2,430	3/4	1,275	3/4	120	3/4		3/4		3/4		3/4	
11		11	4,715	11	3,560	11	2,406	11	1,251	11	96	11		11		11		11	
1/4		1/4	4,691	1/4	3,536	1/4	2,382	1/4	1,227	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	4,667	1/2	3,512	1/2	2,358	1/2	1,203	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	4,643	3/4	3,488	3/4	2,334	3/4	1,179	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

STRAPPED: 10/27/2015 CL
CALCULATED: 10/27/2015 CL
PRINTED: 10/27/2015 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2015

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



BARGE "HFL 435"

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	4,619	0	3,464	0	2,310	0	1,155	0		0		0		0	
1/4		1/4		1/4	4,595	1/4	3,440	1/4	2,286	1/4	1,131	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,570	1/2	3,415	1/2	2,262	1/2	1,107	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,546	3/4	3,391	3/4	2,238	3/4	1,083	3/4		3/4		3/4		3/4	
1		1		1	4,522	1	3,367	1	2,214	1	1,059	1		1		1		1	
1/4		1/4		1/4	4,498	1/4	3,343	1/4	2,190	1/4	1,035	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,474	1/2	3,319	1/2	2,165	1/2	1,011	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,450	3/4	3,295	3/4	2,141	3/4	987	3/4		3/4		3/4		3/4	
2		2		2	4,426	2	3,271	2	2,117	2	963	2		2		2		2	
1/4		1/4		1/4	4,402	1/4	3,247	1/4	2,093	1/4	938	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,378	1/2	3,223	1/2	2,069	1/2	914	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,354	3/4	3,199	3/4	2,045	3/4	890	3/4		3/4		3/4		3/4	
3		3		3	4,330	3	3,175	3	2,021	3	866	3		3		3		3	
1/4		1/4		1/4	4,306	1/4	3,151	1/4	1,997	1/4	842	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,282	1/2	3,127	1/2	1,973	1/2	818	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,258	3/4	3,103	3/4	1,949	3/4	794	3/4		3/4		3/4		3/4	
4		4		4	4,234	4	3,079	4	1,925	4	770	4		4		4		4	
1/4		1/4		1/4	4,210	1/4	3,054	1/4	1,901	1/4	746	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,185	1/2	3,030	1/2	1,877	1/2	722	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,161	3/4	3,006	3/4	1,853	3/4	698	3/4		3/4		3/4		3/4	
5		5		5	4,137	5	2,982	5	1,829	5	674	5		5		5		5	
1/4		1/4		1/4	4,113	1/4	2,958	1/4	1,805	1/4	650	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,089	1/2	2,934	1/2	1,780	1/2	626	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,065	3/4	2,910	3/4	1,756	3/4	602	3/4		3/4		3/4		3/4	
6		6	5,140	6	4,041	6	2,886	6	1,732	6	578	6		6		6		6	
1/4		1/4	5,128	1/4	4,017	1/4	2,862	1/4	1,708	1/4	553	1/4		1/4		1/4		1/4	
1/2		1/2	5,117	1/2	3,993	1/2	2,838	1/2	1,684	1/2	529	1/2		1/2		1/2		1/2	
3/4		3/4	5,105	3/4	3,969	3/4	2,814	3/4	1,660	3/4	505	3/4		3/4		3/4		3/4	
7		7	5,093	7	3,945	7	2,790	7	1,636	7	481	7		7		7		7	
1/4		1/4	5,070	1/4	3,921	1/4	2,766	1/4	1,612	1/4	457	1/4		1/4		1/4		1/4	
1/2		1/2	5,046	1/2	3,897	1/2	2,742	1/2	1,588	1/2	433	1/2		1/2		1/2		1/2	
3/4		3/4	5,023	3/4	3,873	3/4	2,718	3/4	1,564	3/4	409	3/4		3/4		3/4		3/4	
8		8	4,999	8	3,849	8	2,694	8	1,540	8	385	8		8		8		8	
1/4		1/4	4,975	1/4	3,825	1/4	2,670	1/4	1,516	1/4	361	1/4		1/4		1/4		1/4	
1/2		1/2	4,952	1/2	3,800	1/2	2,646	1/2	1,492	1/2	337	1/2		1/2		1/2		1/2	
3/4		3/4	4,928	3/4	3,776	3/4	2,622	3/4	1,468	3/4	313	3/4		3/4		3/4		3/4	
9		9	4,904	9	3,752	9	2,597	9	1,444	9	289	9		9		9		9	
1/4		1/4	4,881	1/4	3,728	1/4	2,574	1/4	1,419	1/4	265	1/4		1/4		1/4		1/4	
1/2		1/2	4,857	1/2	3,704	1/2	2,550	1/2	1,395	1/2	241	1/2		1/2		1/2		1/2	
3/4		3/4	4,833	3/4	3,680	3/4	2,526	3/4	1,371	3/4	217	3/4		3/4		3/4		3/4	
10		10	4,810	10	3,656	10	2,502	10	1,347	10	193	10		10		10		10	
1/4		1/4	4,786	1/4	3,632	1/4	2,478	1/4	1,323	1/4	168	1/4		1/4		1/4		1/4	
1/2		1/2	4,762	1/2	3,608	1/2	2,454	1/2	1,299	1/2	144	1/2		1/2		1/2		1/2	
3/4		3/4	4,739	3/4	3,584	3/4	2,430	3/4	1,275	3/4	120	3/4		3/4		3/4		3/4	
11		11	4,715	11	3,560	11	2,406	11	1,251	11	96	11		11		11		11	
1/4		1/4	4,691	1/4	3,536	1/4	2,382	1/4	1,227	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	4,667	1/2	3,512	1/2	2,358	1/2	1,203	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	4,643	3/4	3,488	3/4	2,334	3/4	1,179	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

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PRECISION MEASUREMENT
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P.O. Box 2092
Pearland, Texas 77588
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BARGE "HFL 435"

FUEL TANK ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 4'-05 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	473	0	332	0	170	0	33	0		0		0		0		0	
1/4		1/4	471	1/4	329	1/4	167	1/4	31	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	469	1/2	325	1/2	163	1/2	28	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	466	3/4	322	3/4	160	3/4	26	3/4		3/4		3/4		3/4		3/4	
1		1	464	1	319	1	157	1	24	1		1		1		1		1	
1/4		1/4	461	1/4	315	1/4	154	1/4	22	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	459	1/2	312	1/2	150	1/2	21	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	456	3/4	309	3/4	147	3/4	19	3/4		3/4		3/4		3/4		3/4	
2		2	453	2	305	2	144	2	17	2		2		2		2		2	
1/4		1/4	451	1/4	302	1/4	141	1/4	15	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	448	1/2	298	1/2	138	1/2	13	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	445	3/4	295	3/4	134	3/4	12	3/4		3/4		3/4		3/4		3/4	
3		3	443	3	292	3	131	3	10	3		3		3		3		3	
1/4		1/4	440	1/4	288	1/4	128	1/4	9	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	437	1/2	285	1/2	125	1/2	7	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	434	3/4	281	3/4	122	3/4	6	3/4		3/4		3/4		3/4		3/4	
4		4	432	4	278	4	119	4	5	4		4		4		4		4	
1/4		1/4	429	1/4	275	1/4	116	1/4	4	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	426	1/2	271	1/2	113	1/2	3	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	423	3/4	268	3/4	110	3/4	2	3/4		3/4		3/4		3/4		3/4	
5		5	420	5	264	5	107	5	1	5		5		5		5		5	
1/4		1/4	417	1/4	261	1/4	104	1/4	1	1/4		1/4		1/4		1/4		1/4	
1/2	515	1/2	414	1/2	258	1/2	101	1/2	0	1/2		1/2		1/2		1/2		1/2	
3/4	514	3/4	411	3/4	254	3/4	98	1/2	0	3/4		3/4		3/4		3/4		3/4	
6	514	6	408	6	251	6	95	6		6		6		6		6		6	
1/4	513	1/4	405	1/4	247	1/4	92	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	512	1/2	402	1/2	244	1/2	89	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	511	3/4	399	3/4	240	3/4	86	3/4		3/4		3/4		3/4		3/4		3/4	
7	510	7	396	7	237	7	83	7		7		7		7		7		7	
1/4	509	1/4	393	1/4	234	1/4	81	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	508	1/2	390	1/2	230	1/2	78	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	506	3/4	387	3/4	227	3/4	75	3/4		3/4		3/4		3/4		3/4		3/4	
8	505	8	384	8	223	8	72	8		8		8		8		8		8	
1/4	503	1/4	381	1/4	220	1/4	70	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	502	1/2	378	1/2	217	1/2	67	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	500	3/4	374	3/4	213	3/4	64	3/4		3/4		3/4		3/4		3/4		3/4	
9	498	9	371	9	210	9	62	9		9		9		9		9		9	
1/4	496	1/4	368	1/4	207	1/4	59	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	495	1/2	365	1/2	203	1/2	56	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	493	3/4	362	3/4	200	3/4	54	3/4		3/4		3/4		3/4		3/4		3/4	
10	491	10	358	10	196	10	51	10		10		10		10		10		10	
1/4	489	1/4	355	1/4	193	1/4	49	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	487	1/2	352	1/2	190	1/2	47	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	484	3/4	349	3/4	186	3/4	44	3/4		3/4		3/4		3/4		3/4		3/4	
11	482	11	345	11	183	11	42	11		11		11		11		11		11	
1/4	480	1/4	342	1/4	180	1/4	39	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	478	1/2	339	1/2	176	1/2	37	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	476	3/4	335	3/4	173	3/4	35	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 TO ULLAGE GAUGES TAKEN TO TOP OF 2" DIAMETER PIPE

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