



BARGE "HSM 3310"

formerly the
BARGE "FMT 3310"

PORT SLOP INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 6'-07"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0	0	0	1,101	0	2,203	0	3,304	0	4,406	0	5,507	0		0		0		0	
1/4	23	1/4	1,124	1/4	2,226	1/4	3,327	1/4	4,429	1/4	5,530	1/4		1/4		1/4		1/4	
1/2	46	1/2	1,147	1/2	2,249	1/2	3,350	1/2	4,452	1/2	5,553	1/2		1/2		1/2		1/2	
3/4	69	3/4	1,170	3/4	2,272	3/4	3,373	3/4	4,475	3/4		3/4		3/4		3/4		3/4	
1	92	1	1,193	1	2,295	1	3,396	1	4,498	1		1		1		1		1	
1/4	115	1/4	1,216	1/4	2,318	1/4	3,419	1/4	4,521	1/4		1/4		1/4		1/4		1/4	
1/2	138	1/2	1,239	1/2	2,341	1/2	3,442	1/2	4,544	1/2		1/2		1/2		1/2		1/2	
3/4	161	3/4	1,262	3/4	2,364	3/4	3,465	3/4	4,567	3/4		3/4		3/4		3/4		3/4	
2	184	2	1,285	2	2,387	2	3,488	2	4,589	2		2		2		2		2	
1/4	207	1/4	1,308	1/4	2,409	1/4	3,511	1/4	4,612	1/4		1/4		1/4		1/4		1/4	
1/2	229	1/2	1,331	1/2	2,432	1/2	3,534	1/2	4,635	1/2		1/2		1/2		1/2		1/2	
3/4	252	3/4	1,354	3/4	2,455	3/4	3,557	3/4	4,658	3/4		3/4		3/4		3/4		3/4	
3	275	3	1,377	3	2,478	3	3,580	3	4,681	3		3		3		3		3	
1/4	298	1/4	1,400	1/4	2,501	1/4	3,603	1/4	4,704	1/4		1/4		1/4		1/4		1/4	
1/2	321	1/2	1,423	1/2	2,524	1/2	3,626	1/2	4,727	1/2		1/2		1/2		1/2		1/2	
3/4	344	3/4	1,446	3/4	2,547	3/4	3,649	3/4	4,750	3/4		3/4		3/4		3/4		3/4	
4	367	4	1,469	4	2,570	4	3,672	4	4,773	4		4		4		4		4	
1/4	390	1/4	1,492	1/4	2,593	1/4	3,695	1/4	4,796	1/4		1/4		1/4		1/4		1/4	
1/2	413	1/2	1,515	1/2	2,616	1/2	3,717	1/2	4,819	1/2		1/2		1/2		1/2		1/2	
3/4	436	3/4	1,538	3/4	2,639	3/4	3,740	3/4	4,842	3/4		3/4		3/4		3/4		3/4	
5	459	5	1,560	5	2,662	5	3,763	5	4,865	5		5		5		5		5	
1/4	482	1/4	1,583	1/4	2,685	1/4	3,786	1/4	4,888	1/4		1/4		1/4		1/4		1/4	
1/2	505	1/2	1,606	1/2	2,708	1/2	3,809	1/2	4,911	1/2		1/2		1/2		1/2		1/2	
3/4	528	3/4	1,629	3/4	2,731	3/4	3,832	3/4	4,934	3/4		3/4		3/4		3/4		3/4	
6	551	6	1,652	6	2,754	6	3,855	6	4,957	6		6		6		6		6	
1/4	574	1/4	1,675	1/4	2,777	1/4	3,878	1/4	4,980	1/4		1/4		1/4		1/4		1/4	
1/2	597	1/2	1,698	1/2	2,800	1/2	3,901	1/2	5,003	1/2		1/2		1/2		1/2		1/2	
3/4	620	3/4	1,721	3/4	2,823	3/4	3,924	3/4	5,025	3/4		3/4		3/4		3/4		3/4	
7	643	7	1,744	7	2,845	7	3,947	7	5,048	7		7		7		7		7	
1/4	665	1/4	1,767	1/4	2,868	1/4	3,970	1/4	5,071	1/4		1/4		1/4		1/4		1/4	
1/2	688	1/2	1,790	1/2	2,891	1/2	3,993	1/2	5,094	1/2		1/2		1/2		1/2		1/2	
3/4	711	3/4	1,813	3/4	2,914	3/4	4,016	3/4	5,117	3/4		3/4		3/4		3/4		3/4	
8	734	8	1,836	8	2,937	8	4,039	8	5,140	8		8		8		8		8	
1/4	757	1/4	1,859	1/4	2,960	1/4	4,062	1/4	5,163	1/4		1/4		1/4		1/4		1/4	
1/2	780	1/2	1,882	1/2	2,983	1/2	4,085	1/2	5,186	1/2		1/2		1/2		1/2		1/2	
3/4	803	3/4	1,905	3/4	3,006	3/4	4,108	3/4	5,209	3/4		3/4		3/4		3/4		3/4	
9	826	9	1,928	9	3,029	9	4,131	9	5,232	9		9		9		9		9	
1/4	849	1/4	1,951	1/4	3,052	1/4	4,153	1/4	5,255	1/4		1/4		1/4		1/4		1/4	
1/2	872	1/2	1,973	1/2	3,075	1/2	4,176	1/2	5,278	1/2		1/2		1/2		1/2		1/2	
3/4	895	3/4	1,996	3/4	3,098	3/4	4,199	3/4	5,301	3/4		3/4		3/4		3/4		3/4	
10	918	10	2,019	10	3,121	10	4,222	10	5,324	10		10		10		10		10	
1/4	941	1/4	2,042	1/4	3,144	1/4	4,245	1/4	5,347	1/4		1/4		1/4		1/4		1/4	
1/2	964	1/2	2,065	1/2	3,167	1/2	4,268	1/2	5,370	1/2		1/2		1/2		1/2		1/2	
3/4	987	3/4	2,088	3/4	3,190	3/4	4,291	3/4	5,393	3/4		3/4		3/4		3/4		3/4	
11	1,010	11	2,111	11	3,213	11	4,314	11	5,416	11		11		11		11		11	
1/4	1,033	1/4	2,134	1/4	3,236	1/4	4,337	1/4	5,439	1/4		1/4		1/4		1/4		1/4	
1/2	1,056	1/2	2,157	1/2	3,259	1/2	4,360	1/2	5,461	1/2		1/2		1/2		1/2		1/2	
3/4	1,079	3/4	2,180	3/4	3,281	3/4	4,383	3/4	5,484	3/4		3/4		3/4		3/4		3/4	

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

STRAPPED: 07/15/2020 CL
 CALCULATED: 07/16/2020 CL
 PRINTED: 07/16/2020 JS

CANCELS AND SUPERCEDES
 ALL PRIOR TO 07/2020

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "HSM 3310"

formerly the
BARGE "FMT 3310"

STBD SLOP INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 6'-07"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0	0	0	1,101	0	2,203	0	3,304	0	4,406	0	5,507	0		0		0		0	
1/4	23	1/4	1,124	1/4	2,226	1/4	3,327	1/4	4,429	1/4	5,530	1/4		1/4		1/4		1/4	
1/2	46	1/2	1,147	1/2	2,249	1/2	3,350	1/2	4,452	1/2	5,553	1/2		1/2		1/2		1/2	
3/4	69	3/4	1,170	3/4	2,272	3/4	3,373	3/4	4,475	3/4		3/4		3/4		3/4		3/4	
1	92	1	1,193	1	2,295	1	3,396	1	4,498	1		1		1		1		1	
1/4	115	1/4	1,216	1/4	2,318	1/4	3,419	1/4	4,521	1/4		1/4		1/4		1/4		1/4	
1/2	138	1/2	1,239	1/2	2,341	1/2	3,442	1/2	4,544	1/2		1/2		1/2		1/2		1/2	
3/4	161	3/4	1,262	3/4	2,364	3/4	3,465	3/4	4,567	3/4		3/4		3/4		3/4		3/4	
2	184	2	1,285	2	2,387	2	3,488	2	4,589	2		2		2		2		2	
1/4	207	1/4	1,308	1/4	2,409	1/4	3,511	1/4	4,612	1/4		1/4		1/4		1/4		1/4	
1/2	229	1/2	1,331	1/2	2,432	1/2	3,534	1/2	4,635	1/2		1/2		1/2		1/2		1/2	
3/4	252	3/4	1,354	3/4	2,455	3/4	3,557	3/4	4,658	3/4		3/4		3/4		3/4		3/4	
3	275	3	1,377	3	2,478	3	3,580	3	4,681	3		3		3		3		3	
1/4	298	1/4	1,400	1/4	2,501	1/4	3,603	1/4	4,704	1/4		1/4		1/4		1/4		1/4	
1/2	321	1/2	1,423	1/2	2,524	1/2	3,626	1/2	4,727	1/2		1/2		1/2		1/2		1/2	
3/4	344	3/4	1,446	3/4	2,547	3/4	3,649	3/4	4,750	3/4		3/4		3/4		3/4		3/4	
4	367	4	1,469	4	2,570	4	3,672	4	4,773	4		4		4		4		4	
1/4	390	1/4	1,492	1/4	2,593	1/4	3,695	1/4	4,796	1/4		1/4		1/4		1/4		1/4	
1/2	413	1/2	1,515	1/2	2,616	1/2	3,717	1/2	4,819	1/2		1/2		1/2		1/2		1/2	
3/4	436	3/4	1,537	3/4	2,639	3/4	3,740	3/4	4,842	3/4		3/4		3/4		3/4		3/4	
5	459	5	1,560	5	2,662	5	3,763	5	4,865	5		5		5		5		5	
1/4	482	1/4	1,583	1/4	2,685	1/4	3,786	1/4	4,888	1/4		1/4		1/4		1/4		1/4	
1/2	505	1/2	1,606	1/2	2,708	1/2	3,809	1/2	4,911	1/2		1/2		1/2		1/2		1/2	
3/4	528	3/4	1,629	3/4	2,731	3/4	3,832	3/4	4,934	3/4		3/4		3/4		3/4		3/4	
6	551	6	1,652	6	2,754	6	3,855	6	4,957	6		6		6		6		6	
1/4	574	1/4	1,675	1/4	2,777	1/4	3,878	1/4	4,980	1/4		1/4		1/4		1/4		1/4	
1/2	597	1/2	1,698	1/2	2,800	1/2	3,901	1/2	5,003	1/2		1/2		1/2		1/2		1/2	
3/4	620	3/4	1,721	3/4	2,823	3/4	3,924	3/4	5,025	3/4		3/4		3/4		3/4		3/4	
7	643	7	1,744	7	2,845	7	3,947	7	5,048	7		7		7		7		7	
1/4	665	1/4	1,767	1/4	2,868	1/4	3,970	1/4	5,071	1/4		1/4		1/4		1/4		1/4	
1/2	688	1/2	1,790	1/2	2,891	1/2	3,993	1/2	5,094	1/2		1/2		1/2		1/2		1/2	
3/4	711	3/4	1,813	3/4	2,914	3/4	4,016	3/4	5,117	3/4		3/4		3/4		3/4		3/4	
8	734	8	1,836	8	2,937	8	4,039	8	5,140	8		8		8		8		8	
1/4	757	1/4	1,859	1/4	2,960	1/4	4,062	1/4	5,163	1/4		1/4		1/4		1/4		1/4	
1/2	780	1/2	1,882	1/2	2,983	1/2	4,085	1/2	5,186	1/2		1/2		1/2		1/2		1/2	
3/4	803	3/4	1,905	3/4	3,006	3/4	4,108	3/4	5,209	3/4		3/4		3/4		3/4		3/4	
9	826	9	1,928	9	3,029	9	4,131	9	5,232	9		9		9		9		9	
1/4	849	1/4	1,951	1/4	3,052	1/4	4,153	1/4	5,255	1/4		1/4		1/4		1/4		1/4	
1/2	872	1/2	1,973	1/2	3,075	1/2	4,176	1/2	5,278	1/2		1/2		1/2		1/2		1/2	
3/4	895	3/4	1,996	3/4	3,098	3/4	4,199	3/4	5,301	3/4		3/4		3/4		3/4		3/4	
10	918	10	2,019	10	3,121	10	4,222	10	5,324	10		10		10		10		10	
1/4	941	1/4	2,042	1/4	3,144	1/4	4,245	1/4	5,347	1/4		1/4		1/4		1/4		1/4	
1/2	964	1/2	2,065	1/2	3,167	1/2	4,268	1/2	5,370	1/2		1/2		1/2		1/2		1/2	
3/4	987	3/4	2,088	3/4	3,190	3/4	4,291	3/4	5,393	3/4		3/4		3/4		3/4		3/4	
11	1,010	11	2,111	11	3,213	11	4,314	11	5,416	11		11		11		11		11	
1/4	1,033	1/4	2,134	1/4	3,236	1/4	4,337	1/4	5,439	1/4		1/4		1/4		1/4		1/4	
1/2	1,056	1/2	2,157	1/2	3,259	1/2	4,360	1/2	5,461	1/2		1/2		1/2		1/2		1/2	
3/4	1,079	3/4	2,180	3/4	3,281	3/4	4,383	3/4	5,484	3/4		3/4		3/4		3/4		3/4	

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BARGE "HSM 3310"

formerly the
BARGE "FMT 3310"

FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 4'-06 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0	0	0	101	0	259	0	416	0	517	0		0		0		0		0	
1/4	1	1/4	104	1/4	262	1/4	419	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1	1/2	107	1/2	265	1/2	422	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2	3/4	110	3/4	269	3/4	425	3/4		3/4		3/4		3/4		3/4		3/4	
1	3	1	113	1	272	1	428	1	1	1	1	1	1	1	1	1	1	1	1
1/4	4	1/4	116	1/4	276	1/4	430	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	5	1/2	119	1/2	279	1/2	433	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	6	3/4	122	3/4	282	3/4	436	3/4		3/4		3/4		3/4		3/4		3/4	
2	7	2	125	2	286	2	439	2	2	2	2	2	2	2	2	2	2	2	2
1/4	9	1/4	129	1/4	289	1/4	442	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	10	1/2	132	1/2	293	1/2	444	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	12	3/4	135	3/4	296	3/4	447	3/4		3/4		3/4		3/4		3/4		3/4	
3	13	3	138	3	300	3	450	3	3	3	3	3	3	3	3	3	3	3	3
1/4	15	1/4	141	1/4	303	1/4	453	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	17	1/2	144	1/2	306	1/2	455	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	19	3/4	148	3/4	310	3/4	458	3/4		3/4		3/4		3/4		3/4		3/4	
4	21	4	151	4	313	4	460	4	4	4	4	4	4	4	4	4	4	4	4
1/4	23	1/4	154	1/4	316	1/4	463	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	25	1/2	157	1/2	320	1/2	465	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	27	3/4	161	3/4	323	3/4	468	3/4		3/4		3/4		3/4		3/4		3/4	
5	29	5	164	5	327	5	470	5	5	5	5	5	5	5	5	5	5	5	5
1/4	31	1/4	167	1/4	330	1/4	473	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	33	1/2	170	1/2	333	1/2	475	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	35	3/4	174	3/4	337	3/4	477	3/4		3/4		3/4		3/4		3/4		3/4	
6	37	6	177	6	340	6	480	6	6	6	6	6	6	6	6	6	6	6	6
1/4	40	1/4	180	1/4	343	1/4	482	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	42	1/2	184	1/2	347	1/2	484	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	44	3/4	187	3/4	350	3/4	486	3/4		3/4		3/4		3/4		3/4		3/4	
7	47	7	190	7	353	7	488	7	7	7	7	7	7	7	7	7	7	7	7
1/4	49	1/4	194	1/4	356	1/4	490	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	52	1/2	197	1/2	360	1/2	492	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	54	3/4	201	3/4	363	3/4	494	3/4		3/4		3/4		3/4		3/4		3/4	
8	57	8	204	8	366	8	496	8	8	8	8	8	8	8	8	8	8	8	8
1/4	59	1/4	207	1/4	369	1/4	498	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	62	1/2	211	1/2	373	1/2	500	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	64	3/4	214	3/4	376	3/4	502	3/4		3/4		3/4		3/4		3/4		3/4	
9	67	9	217	9	379	9	504	9	9	9	9	9	9	9	9	9	9	9	9
1/4	70	1/4	221	1/4	382	1/4	505	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	73	1/2	224	1/2	385	1/2	507	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	75	3/4	228	3/4	388	3/4	508	3/4		3/4		3/4		3/4		3/4		3/4	
10	78	10	231	10	392	10	510	10	10	10	10	10	10	10	10	10	10	10	10
1/4	81	1/4	235	1/4	395	1/4	511	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	84	1/2	238	1/2	398	1/2	512	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	87	3/4	241	3/4	401	3/4	513	3/4		3/4		3/4		3/4		3/4		3/4	
11	89	11	245	11	404	11	514	11	11	11	11	11	11	11	11	11	11	11	11
1/4	92	1/4	248	1/4	407	1/4	515	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	95	1/2	252	1/2	410	1/2	516	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	98	3/4	255	3/4	413	3/4	516	3/4		3/4		3/4		3/4		3/4		3/4	

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN AT 2" STANDPIPE

STRAPPED: 07/15/2020 CL
 CALCULATED: 07/16/2020 CL
 PRINTED: 07/16/2020 JS

CANCELS AND SUPERCEDES
 ALL PRIOR TO 07/2020

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "HSM 3310"
 formerly the
BARGE "FMT 3310"
INNAGE (HERMETIC)

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 2'-00"
 AFT DRAFT = 6'-00"
 DIFF. = 4'-00" (DOWN BY STERN)

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

LENGTH BETWEEN DRAFT MARKS: 237'-03"

July 15, 2020

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

<http://www.pmacorp.net>



BARGE "HSM 3310"

formerly the

BARGE "FMT 3310"

1 PORT
INNAGE TABLE

HERMETIC
GAUGE HEIGHT 16'-05 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	14.66	0	291.20	0	626.13	0	967.49	0	1,309.83	0	1,653.01	0	1,996.18	0	2,339.35	0	2,682.51	0	3,025.63
1/4	17.59	1/4	297.81	1/4	633.28	1/4	974.58	1/4	1,316.98	1/4	1,660.16	1/4	2,003.33	1/4	2,346.50	1/4	2,689.66	1/4	3,032.78
1/2	20.51	1/2	304.41	1/2	640.43	1/2	981.67	1/2	1,324.13	1/2	1,667.30	1/2	2,010.48	1/2	2,353.65	1/2	2,696.81	1/2	3,039.93
3/4	23.43	3/4	311.02	3/4	647.58	3/4	988.76	3/4	1,331.28	3/4	1,674.45	3/4	2,017.63	3/4	2,360.80	3/4	2,703.96	3/4	3,047.08
1	26.36	1	317.63	1	654.73	1	995.85	1	1,338.43	1	1,681.60	1	2,024.77	1	2,367.95	1	2,711.11	1	3,054.22
1/4	31.15	1/4	324.32	1/4	661.88	1/4	1,002.94	1/4	1,345.58	1/4	1,688.75	1/4	2,031.92	1/4	2,375.10	1/4	2,718.25	1/4	3,061.37
1/2	35.94	1/2	331.01	1/2	669.03	1/2	1,010.03	1/2	1,352.73	1/2	1,695.90	1/2	2,039.07	1/2	2,382.24	1/2	2,725.40	1/2	3,068.52
3/4	40.73	3/4	337.69	3/4	676.18	3/4	1,017.12	3/4	1,359.88	3/4	1,703.05	3/4	2,046.22	3/4	2,389.39	3/4	2,732.55	3/4	3,075.66
2	45.52	2	344.38	2	683.32	2	1,024.20	2	1,367.03	2	1,710.20	2	2,053.37	2	2,396.54	2	2,739.70	2	3,082.81
1/4	51.26	1/4	351.16	1/4	690.47	1/4	1,031.30	1/4	1,374.18	1/4	1,717.35	1/4	2,060.52	1/4	2,403.69	1/4	2,746.85	1/4	3,089.96
1/2	56.99	1/2	357.93	1/2	697.62	1/2	1,038.40	1/2	1,381.33	1/2	1,724.50	1/2	2,067.67	1/2	2,410.84	1/2	2,754.00	1/2	3,097.10
3/4	62.73	3/4	364.70	3/4	704.77	3/4	1,045.50	3/4	1,388.48	3/4	1,731.65	3/4	2,074.82	3/4	2,417.99	3/4	2,761.15	3/4	3,104.25
3	68.46	3	371.48	3	711.92	3	1,052.59	3	1,395.63	3	1,738.80	3	2,081.97	3	2,425.14	3	2,768.29	3	3,111.40
1/4	74.31	1/4	378.33	1/4	719.07	1/4	1,059.71	1/4	1,402.78	1/4	1,745.95	1/4	2,089.12	1/4	2,432.29	1/4	2,775.44	1/4	3,118.55
1/2	80.15	1/2	385.19	1/2	726.22	1/2	1,066.82	1/2	1,409.93	1/2	1,753.10	1/2	2,096.27	1/2	2,439.44	1/2	2,782.59	1/2	3,125.69
3/4	85.99	3/4	392.05	3/4	733.37	3/4	1,073.94	3/4	1,417.08	3/4	1,760.25	3/4	2,103.42	3/4	2,446.59	3/4	2,789.74	3/4	3,132.84
4	91.84	4	398.91	4	740.52	4	1,081.05	4	1,424.23	4	1,767.40	4	2,110.57	4	2,453.74	4	2,796.89	4	3,139.99
1/4	97.77	1/4	405.85	1/4	747.63	1/4	1,088.20	1/4	1,431.37	1/4	1,774.55	1/4	2,117.72	1/4	2,460.89	1/4	2,804.04	1/4	3,147.13
1/2	103.71	1/2	412.79	1/2	754.75	1/2	1,095.35	1/2	1,438.52	1/2	1,781.70	1/2	2,124.87	1/2	2,468.04	1/2	2,811.19	1/2	3,154.28
3/4	109.65	3/4	419.73	3/4	761.86	3/4	1,102.50	3/4	1,445.67	3/4	1,788.84	3/4	2,132.02	3/4	2,475.19	3/4	2,818.33	3/4	3,161.43
5	115.58	5	426.67	5	768.98	5	1,109.65	5	1,452.82	5	1,795.99	5	2,139.17	5	2,482.34	5	2,825.48	5	3,168.57
1/4	121.61	1/4	433.69	1/4	776.07	1/4	1,116.80	1/4	1,459.97	1/4	1,803.14	1/4	2,146.31	1/4	2,489.49	1/4	2,832.63	1/4	3,175.72
1/2	127.63	1/2	440.70	1/2	783.17	1/2	1,123.95	1/2	1,467.12	1/2	1,810.29	1/2	2,153.46	1/2	2,496.64	1/2	2,839.78	1/2	3,182.87
3/4	133.65	3/4	447.72	3/4	790.27	3/4	1,131.10	3/4	1,474.27	3/4	1,817.44	3/4	2,160.61	3/4	2,503.78	3/4	2,846.93	3/4	3,190.02
6	139.67	6	454.74	6	797.36	6	1,138.25	6	1,481.42	6	1,824.59	6	2,167.76	6	2,510.93	6	2,854.08	6	3,197.16
1/4	145.77	1/4	461.84	1/4	804.45	1/4	1,145.40	1/4	1,488.57	1/4	1,831.74	1/4	2,174.91	1/4	2,518.08	1/4	2,861.22	1/4	3,204.31
1/2	151.88	1/2	468.95	1/2	811.54	1/2	1,152.55	1/2	1,495.72	1/2	1,838.89	1/2	2,182.06	1/2	2,525.23	1/2	2,868.37	1/2	3,211.46
3/4	157.98	3/4	476.05	3/4	818.63	3/4	1,159.70	3/4	1,502.87	3/4	1,846.04	3/4	2,189.21	3/4	2,532.38	3/4	2,875.52	3/4	3,218.60
7	164.09	7	483.15	7	825.72	7	1,166.85	7	1,510.02	7	1,853.19	7	2,196.36	7	2,539.53	7	2,882.67	7	3,225.75
1/4	170.28	1/4	490.30	1/4	832.81	1/4	1,174.00	1/4	1,517.17	1/4	1,860.34	1/4	2,203.51	1/4	2,546.68	1/4	2,889.82	1/4	3,232.90
1/2	176.47	1/2	497.45	1/2	839.90	1/2	1,181.15	1/2	1,524.32	1/2	1,867.49	1/2	2,210.66	1/2	2,553.83	1/2	2,896.97	1/2	3,240.04
3/4	182.65	3/4	504.60	3/4	846.99	3/4	1,188.29	3/4	1,531.47	3/4	1,874.64	3/4	2,217.81	3/4	2,560.98	3/4	2,904.12	3/4	3,247.19
8	188.84	8	511.75	8	854.07	8	1,195.44	8	1,538.62	8	1,881.79	8	2,224.96	8	2,568.13	8	2,911.26	8	3,254.34
1/4	195.12	1/4	518.90	1/4	861.16	1/4	1,202.59	1/4	1,545.76	1/4	1,888.94	1/4	2,232.11	1/4	2,575.28	1/4	2,918.41	1/4	3,261.49
1/2	201.39	1/2	526.04	1/2	868.25	1/2	1,209.74	1/2	1,552.91	1/2	1,896.09	1/2	2,239.26	1/2	2,582.43	1/2	2,925.56	1/2	3,268.63
3/4	207.66	3/4	533.19	3/4	875.34	3/4	1,216.89	3/4	1,560.06	3/4	1,903.23	3/4	2,246.41	3/4	2,589.58	3/4	2,932.71	3/4	3,275.78
9	213.93	9	540.34	9	882.43	9	1,224.04	9	1,567.21	9	1,910.38	9	2,253.56	9	2,596.73	9	2,939.86	9	3,282.93
1/4	220.29	1/4	547.49	1/4	889.52	1/4	1,231.19	1/4	1,574.36	1/4	1,917.53	1/4	2,260.70	1/4	2,603.88	1/4	2,947.01	1/4	3,290.07
1/2	226.64	1/2	554.64	1/2	896.61	1/2	1,238.34	1/2	1,581.51	1/2	1,924.68	1/2	2,267.85	1/2	2,611.03	1/2	2,954.16	1/2	3,297.22
3/4	233.00	3/4	561.79	3/4	903.70	3/4	1,245.49	3/4	1,588.66	3/4	1,931.83	3/4	2,275.00	3/4	2,618.17	3/4	2,961.30	3/4	3,304.37
10	239.35	10	568.94	10	910.78	10	1,252.64	10	1,595.81	10	1,938.98	10	2,282.15	10	2,625.32	10	2,968.45	10	3,311.51
1/4	245.79	1/4	576.09	1/4	917.87	1/4	1,259.79	1/4	1,602.96	1/4	1,946.13	1/4	2,289.30	1/4	2,632.47	1/4	2,975.60	1/4	3,318.66
1/2	252.23	1/2	583.24	1/2	924.96	1/2	1,266.94	1/2	1,610.11	1/2	1,953.28	1/2	2,296.45	1/2	2,639.62	1/2	2,982.75	1/2	3,325.81
3/4	258.67	3/4	590.39	3/4	932.05	3/4	1,274.09	3/4	1,617.26	3/4	1,960.43	3/4	2,303.60	3/4	2,646.77	3/4	2,989.90	3/4	3,332.96
11	265.11	11	597.54	11	939.14	11	1,281.24	11	1,624.41	11	1,967.58	11	2,310.75	11	2,653.92	11	2,997.05	11	3,340.10
1/4	271.63	1/4	604.68	1/4	946.23	1/4	1,288.39	1/4	1,631.56	1/4	1,974.73	1/4	2,317.90	1/4	2,661.07	1/4	3,004.19	1/4	3,347.25
1/2	278.16	1/2	611.83	1/2	953.32	1/2	1,295.54	1/2	1,638.71	1/2	1,981.88	1/2	2,325.05	1/2	2,668.22	1/2	3,011.34	1/2	3,354.40
3/4	284.68	3/4	618.98	3/4	960.41	3/4	1,302.69	3/4	1,645.86	3/4	1,989.03	3/4	2,332.20	3/4	2,675.36	3/4	3,018.49	3/4	3,361.54

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 11'-06" OFF CENTERLINE AND 43'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
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BARGE "HSM 3310"
formerly the
BARGE "FMT 3310"

1 PORT
INNAGE TABLE
HERMETIC
GAUGE HEIGHT 16'-05 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,368.69	0	3,711.77	0	4,054.91	0	4,397.40	0	4,738.99	0		0		0		0		0	
1/4	3,375.84	1/4	3,718.92	1/4	4,062.06	1/4	4,404.52	1/4	4,746.10	1/4		1/4		1/4		1/4		1/4	
1/2	3,382.98	1/2	3,726.07	1/2	4,069.21	1/2	4,411.64	1/2	4,753.22	1/2		1/2		1/2		1/2		1/2	
3/4	3,390.13	3/4	3,733.21	3/4	4,076.36	3/4	4,418.75	3/4	4,760.33	3/4		3/4		3/4		3/4		3/4	
1	3,397.28	1	3,740.36	1	4,083.51	1	4,425.87	1	4,767.45	1		1		1		1		1	
1/4	3,404.43	1/4	3,747.51	1/4	4,090.65	1/4	4,432.98	1/4	4,774.57	1/4		1/4		1/4		1/4		1/4	
1/2	3,411.57	1/2	3,754.66	1/2	4,097.80	1/2	4,440.10	1/2	4,781.68	1/2		1/2		1/2		1/2		1/2	
3/4	3,418.72	3/4	3,761.81	3/4	4,104.95	3/4	4,447.22	3/4	4,788.80	3/4		3/4		3/4		3/4		3/4	
2	3,425.87	2	3,768.96	2	4,112.10	2	4,454.33	2	4,795.92	2		2		2		2		2	
1/4	3,433.01	1/4	3,776.11	1/4	4,119.25	1/4	4,461.45	1/4	4,803.03	1/4		1/4		1/4		1/4		1/4	
1/2	3,440.16	1/2	3,783.26	1/2	4,126.40	1/2	4,468.57	1/2	4,810.15	1/2		1/2		1/2		1/2		1/2	
3/4	3,447.31	3/4	3,790.40	3/4	4,133.55	3/4	4,475.68	3/4	4,817.26	3/4		3/4		3/4		3/4		3/4	
3	3,454.45	3	3,797.55	3	4,140.70	3	4,482.80	3	4,824.38	3		3		3		3		3	
1/4	3,461.60	1/4	3,804.70	1/4	4,147.84	1/4	4,489.91	1/4	4,831.45	1/4		1/4		1/4		1/4		1/4	
1/2	3,468.75	1/2	3,811.85	1/2	4,154.99	1/2	4,497.03	1/2	4,838.52	1/2		1/2		1/2		1/2		1/2	
3/4	3,475.90	3/4	3,819.00	3/4	4,162.14	3/4	4,504.15	3/4	4,845.59	3/4		3/4		3/4		3/4		3/4	
4	3,483.04	4	3,826.15	4	4,169.29	4	4,511.26	4	4,852.67	4		4		4		4		4	
1/4	3,490.19	1/4	3,833.30	1/4	4,176.44	1/4	4,518.38	1/4	4,859.74	1/4		1/4		1/4		1/4		1/4	
1/2	3,497.34	1/2	3,840.45	1/2	4,183.59	1/2	4,525.50	1/2	4,866.81	1/2		1/2		1/2		1/2		1/2	
3/4	3,504.48	3/4	3,847.60	3/4	4,190.74	3/4	4,532.61	3/4	4,873.88	3/4		3/4		3/4		3/4		3/4	
5	3,511.63	5	3,854.74	5	4,197.89	5	4,539.73	5	4,880.95	5		5		5		5		5	
1/4	3,518.78	1/4	3,861.89	1/4	4,205.04	1/4	4,546.84	1/4	4,888.02	1/4		1/4		1/4		1/4		1/4	
1/2	3,525.92	1/2	3,869.04	1/2	4,212.18	1/2	4,553.96	1/2	4,895.09	1/2		1/2		1/2		1/2		1/2	
3/4	3,533.07	3/4	3,876.19	3/4	4,219.33	3/4	4,561.08	3/4	4,902.16	3/4		3/4		3/4		3/4		3/4	
6	3,540.22	6	3,883.34	6	4,226.48	6	4,568.19	6	4,909.23	6		6		6		6		6	
1/4	3,547.37	1/4	3,890.49	1/4	4,233.63	1/4	4,575.31	1/4	4,916.29	1/4		1/4		1/4		1/4		1/4	
1/2	3,554.51	1/2	3,897.64	1/2	4,240.78	1/2	4,582.43	1/2	4,923.35	1/2		1/2		1/2		1/2		1/2	
3/4	3,561.66	3/4	3,904.79	3/4	4,247.93	3/4	4,589.54	3/4	4,930.40	3/4		3/4		3/4		3/4		3/4	
7	3,568.81	7	3,911.93	7	4,255.08	7	4,596.66	7	4,937.46	7		7		7		7		7	
1/4	3,575.95	1/4	3,919.08	1/4	4,262.19	1/4	4,603.78	1/4	4,944.46	1/4		1/4		1/4		1/4		1/4	
1/2	3,583.10	1/2	3,926.23	1/2	4,269.31	1/2	4,610.89	1/2	4,951.47	1/2		1/2		1/2		1/2		1/2	
3/4	3,590.25	3/4	3,933.38	3/4	4,276.43	3/4	4,618.01	3/4	4,958.47	3/4		3/4		3/4		3/4		3/4	
8	3,597.39	8	3,940.53	8	4,283.54	8	4,625.12	8	4,965.47	8		8		8		8		8	
1/4	3,604.54	1/4	3,947.68	1/4	4,290.66	1/4	4,632.24	1/4	4,971.65	1/4		1/4		1/4		1/4		1/4	
1/2	3,611.69	1/2	3,954.83	1/2	4,297.77	1/2	4,639.36	1/2	4,977.83	1/2		1/2		1/2		1/2		1/2	
3/4	3,618.84	3/4	3,961.98	3/4	4,304.89	3/4	4,646.47	3/4	4,984.00	3/4		3/4		3/4		3/4		3/4	
9	3,625.98	9	3,969.12	9	4,312.01	9	4,653.59	9	4,990.18	9		9		9		9		9	
1/4	3,633.13	1/4	3,976.27	1/4	4,319.12	1/4	4,660.71	1/4	4,995.17	1/4		1/4		1/4		1/4		1/4	
1/2	3,640.28	1/2	3,983.42	1/2	4,326.24	1/2	4,667.82	1/2	5,000.15	1/2		1/2		1/2		1/2		1/2	
3/4	3,647.43	3/4	3,990.57	3/4	4,333.36	3/4	4,674.94	3/4	5,005.14	3/4		3/4		3/4		3/4		3/4	
10	3,654.58	10	3,997.72	10	4,340.47	10	4,682.05	10	5,010.13	10		10		10		10		10	
1/4	3,661.73	1/4	4,004.87	1/4	4,347.59	1/4	4,689.17	1/4	5,013.92	1/4		1/4		1/4		1/4		1/4	
1/2	3,668.88	1/2	4,012.02	1/2	4,354.70	1/2	4,696.29	1/2	5,017.71	1/2		1/2		1/2		1/2		1/2	
3/4	3,676.02	3/4	4,019.17	3/4	4,361.82	3/4	4,703.40	3/4	5,021.51	3/4		3/4		3/4		3/4		3/4	
11	3,683.17	11	4,026.32	11	4,368.94	11	4,710.52	11	5,025.30	11		11		11		11		11	
1/4	3,690.32	1/4	4,033.46	1/4	4,376.05	1/4	4,717.64	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,697.47	1/2	4,040.61	1/2	4,383.17	1/2	4,724.75	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,704.62	3/4	4,047.76	3/4	4,390.29	3/4	4,731.87	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/15/2020 CL
CALCULATED: 07/16/2020 CL
PRINTED: 07/16/2020 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2020

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





BARGE "HSM 3310"

formerly the
BARGE "FMT 3310"

1 STBD
INNAGE TABLE

HERMETIC
GAUGE HEIGHT 16'-04 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	14.65	0	290.82	0	625.40	0	967.95	0	1,310.65	0	1,653.42	0	1,996.19	0	2,338.97	0	2,681.73	0	3,024.47
1/4	17.57	1/4	297.42	1/4	632.54	1/4	975.08	1/4	1,317.79	1/4	1,660.56	1/4	2,003.33	1/4	2,346.11	1/4	2,688.88	1/4	3,031.61
1/2	20.48	1/2	304.02	1/2	639.68	1/2	982.21	1/2	1,324.93	1/2	1,667.70	1/2	2,010.48	1/2	2,353.25	1/2	2,696.02	1/2	3,038.75
3/4	23.40	3/4	310.62	3/4	646.82	3/4	989.35	3/4	1,332.07	3/4	1,674.84	3/4	2,017.62	3/4	2,360.39	3/4	2,703.16	3/4	3,045.89
1	26.32	1	317.22	1	653.96	1	996.48	1	1,339.21	1	1,681.99	1	2,024.76	1	2,367.53	1	2,710.30	1	3,053.03
1/4	31.11	1/4	323.90	1/4	661.10	1/4	1,003.61	1/4	1,346.35	1/4	1,689.13	1/4	2,031.90	1/4	2,374.67	1/4	2,717.44	1/4	3,060.16
1/2	35.89	1/2	330.58	1/2	668.24	1/2	1,010.74	1/2	1,353.49	1/2	1,696.27	1/2	2,039.04	1/2	2,381.81	1/2	2,724.58	1/2	3,067.30
3/4	40.68	3/4	337.26	3/4	675.39	3/4	1,017.87	3/4	1,360.64	3/4	1,703.41	3/4	2,046.18	3/4	2,388.95	3/4	2,731.72	3/4	3,074.44
2	45.46	2	343.94	2	682.53	2	1,025.01	2	1,367.78	2	1,710.55	2	2,053.32	2	2,396.10	2	2,738.86	2	3,081.58
1/4	51.19	1/4	350.71	1/4	689.67	1/4	1,032.15	1/4	1,374.92	1/4	1,717.69	1/4	2,060.46	1/4	2,403.24	1/4	2,746.00	1/4	3,088.72
1/2	56.92	1/2	357.47	1/2	696.81	1/2	1,039.29	1/2	1,382.06	1/2	1,724.83	1/2	2,067.60	1/2	2,410.38	1/2	2,753.14	1/2	3,095.86
3/4	62.64	3/4	364.24	3/4	703.95	3/4	1,046.43	3/4	1,389.20	3/4	1,731.97	3/4	2,074.75	3/4	2,417.52	3/4	2,760.28	3/4	3,103.00
3	68.37	3	371.00	3	711.09	3	1,053.57	3	1,396.34	3	1,739.11	3	2,081.89	3	2,424.66	3	2,767.42	3	3,110.14
1/4	74.21	1/4	377.85	1/4	718.23	1/4	1,060.71	1/4	1,403.48	1/4	1,746.26	1/4	2,089.03	1/4	2,431.80	1/4	2,774.56	1/4	3,117.27
1/2	80.04	1/2	384.70	1/2	725.37	1/2	1,067.85	1/2	1,410.62	1/2	1,753.40	1/2	2,096.17	1/2	2,438.94	1/2	2,781.70	1/2	3,124.41
3/4	85.88	3/4	391.55	3/4	732.51	3/4	1,074.99	3/4	1,417.76	3/4	1,760.54	3/4	2,103.31	3/4	2,446.08	3/4	2,788.84	3/4	3,131.55
4	91.71	4	398.40	4	739.65	4	1,082.13	4	1,424.91	4	1,767.68	4	2,110.45	4	2,453.22	4	2,795.98	4	3,138.69
1/4	97.64	1/4	405.33	1/4	746.79	1/4	1,089.27	1/4	1,432.05	1/4	1,774.82	1/4	2,117.59	1/4	2,460.37	1/4	2,803.12	1/4	3,145.83
1/2	103.57	1/2	412.26	1/2	753.93	1/2	1,096.42	1/2	1,439.19	1/2	1,781.96	1/2	2,124.73	1/2	2,467.51	1/2	2,810.26	1/2	3,152.97
3/4	109.50	3/4	419.19	3/4	761.07	3/4	1,103.56	3/4	1,446.33	3/4	1,789.10	3/4	2,131.87	3/4	2,474.65	3/4	2,817.40	3/4	3,160.11
5	115.43	5	426.12	5	768.22	5	1,110.70	5	1,453.47	5	1,796.24	5	2,139.02	5	2,481.79	5	2,824.54	5	3,167.25
1/4	121.44	1/4	433.14	1/4	775.36	1/4	1,117.84	1/4	1,460.61	1/4	1,803.38	1/4	2,146.16	1/4	2,488.93	1/4	2,831.69	1/4	3,174.38
1/2	127.46	1/2	440.16	1/2	782.50	1/2	1,124.98	1/2	1,467.75	1/2	1,810.53	1/2	2,153.30	1/2	2,496.07	1/2	2,838.83	1/2	3,181.52
3/4	133.47	3/4	447.17	3/4	789.64	3/4	1,132.12	3/4	1,474.89	3/4	1,817.67	3/4	2,160.44	3/4	2,503.21	3/4	2,845.97	3/4	3,188.66
6	139.48	6	454.19	6	796.78	6	1,139.26	6	1,482.03	6	1,824.81	6	2,167.58	6	2,510.35	6	2,853.11	6	3,195.80
1/4	145.58	1/4	461.29	1/4	803.91	1/4	1,146.40	1/4	1,489.18	1/4	1,831.95	1/4	2,174.72	1/4	2,517.49	1/4	2,860.25	1/4	3,202.94
1/2	151.68	1/2	468.39	1/2	811.04	1/2	1,153.54	1/2	1,496.32	1/2	1,839.09	1/2	2,181.86	1/2	2,524.64	1/2	2,867.39	1/2	3,210.08
3/4	157.77	3/4	475.48	3/4	818.17	3/4	1,160.69	3/4	1,503.46	3/4	1,846.23	3/4	2,189.00	3/4	2,531.78	3/4	2,874.53	3/4	3,217.22
7	163.87	7	482.58	7	825.31	7	1,167.83	7	1,510.60	7	1,853.37	7	2,196.14	7	2,538.92	7	2,881.67	7	3,224.35
1/4	170.05	1/4	489.72	1/4	832.44	1/4	1,174.97	1/4	1,517.74	1/4	1,860.51	1/4	2,203.29	1/4	2,546.06	1/4	2,888.81	1/4	3,231.49
1/2	176.23	1/2	496.87	1/2	839.57	1/2	1,182.11	1/2	1,524.88	1/2	1,867.65	1/2	2,210.43	1/2	2,553.20	1/2	2,895.95	1/2	3,238.63
3/4	182.41	3/4	504.01	3/4	846.70	3/4	1,189.25	3/4	1,532.02	3/4	1,874.80	3/4	2,217.57	3/4	2,560.34	3/4	2,903.09	3/4	3,245.77
8	188.59	8	511.15	8	853.83	8	1,196.39	8	1,539.16	8	1,881.94	8	2,224.71	8	2,567.48	8	2,910.23	8	3,252.91
1/4	194.86	1/4	518.29	1/4	860.97	1/4	1,203.53	1/4	1,546.30	1/4	1,889.08	1/4	2,231.85	1/4	2,574.62	1/4	2,917.37	1/4	3,260.05
1/2	201.12	1/2	525.43	1/2	868.10	1/2	1,210.67	1/2	1,553.45	1/2	1,896.22	1/2	2,238.99	1/2	2,581.76	1/2	2,924.51	1/2	3,267.19
3/4	207.39	3/4	532.57	3/4	875.23	3/4	1,217.81	3/4	1,560.59	3/4	1,903.36	3/4	2,246.13	3/4	2,588.91	3/4	2,931.65	3/4	3,274.33
9	213.65	9	539.71	9	882.36	9	1,224.96	9	1,567.73	9	1,910.50	9	2,253.27	9	2,596.05	9	2,938.79	9	3,281.46
1/4	220.00	1/4	546.85	1/4	889.49	1/4	1,232.10	1/4	1,574.87	1/4	1,917.64	1/4	2,260.41	1/4	2,603.19	1/4	2,945.93	1/4	3,288.60
1/2	226.35	1/2	553.99	1/2	896.63	1/2	1,239.24	1/2	1,582.01	1/2	1,924.78	1/2	2,267.56	1/2	2,610.33	1/2	2,953.07	1/2	3,295.74
3/4	232.69	3/4	561.13	3/4	903.76	3/4	1,246.38	3/4	1,589.15	3/4	1,931.92	3/4	2,274.70	3/4	2,617.47	3/4	2,960.21	3/4	3,302.88
10	239.04	10	568.27	10	910.89	10	1,253.52	10	1,596.29	10	1,939.07	10	2,281.84	10	2,624.61	10	2,967.35	10	3,310.02
1/4	245.47	1/4	575.41	1/4	918.02	1/4	1,260.66	1/4	1,603.43	1/4	1,946.21	1/4	2,288.98	1/4	2,631.75	1/4	2,974.50	1/4	3,317.16
1/2	251.90	1/2	582.55	1/2	925.16	1/2	1,267.80	1/2	1,610.57	1/2	1,953.35	1/2	2,296.12	1/2	2,638.89	1/2	2,981.64	1/2	3,324.30
3/4	258.33	3/4	589.70	3/4	932.29	3/4	1,274.94	3/4	1,617.72	3/4	1,960.49	3/4	2,303.26	3/4	2,646.03	3/4	2,988.78	3/4	3,331.44
11	264.76	11	596.84	11	939.42	11	1,282.08	11	1,624.86	11	1,967.63	11	2,310.40	11	2,653.17	11	2,995.92	11	3,338.57
1/4	271.28	1/4	603.98	1/4	946.55	1/4	1,289.22	1/4	1,632.00	1/4	1,974.77	1/4	2,317.54	1/4	2,660.31	1/4	3,003.06	1/4	3,345.71
1/2	277.79	1/2	611.12	1/2	953.68	1/2	1,296.37	1/2	1,639.14	1/2	1,981.91	1/2	2,324.68	1/2	2,667.45	1/2	3,010.19	1/2	3,352.85
3/4	284.31	3/4	618.26	3/4	960.82	3/4	1,303.51	3/4	1,646.28	3/4	1,989.05	3/4	2,331.83	3/4	2,674.59	3/4	3,017.33	3/4	3,359.99

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.
GAUGE POINT: (HERMETIC) LOCATED 11'-06" OFF CENTERLINE AND 43'-03" 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 "HSM 3310"

formerly the
BARGE "FMT 3310"

1 STBD
INNAGE TABLE
HERMETIC
GAUGE HEIGHT 16'-04 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,367.13	0	3,709.81	0	4,052.56	0	4,394.66	0	4,735.84	0		0		0		0		0	
1/4	3,374.27	1/4	3,716.95	1/4	4,059.70	1/4	4,401.76	1/4	4,742.95	1/4		1/4		1/4		1/4		1/4	
1/2	3,381.41	1/2	3,724.09	1/2	4,066.84	1/2	4,408.87	1/2	4,750.06	1/2		1/2		1/2		1/2		1/2	
3/4	3,388.55	3/4	3,731.23	3/4	4,073.98	3/4	4,415.98	3/4	4,757.16	3/4		3/4		3/4		3/4		3/4	
1	3,395.68	1	3,738.37	1	4,081.12	1	4,423.09	1	4,764.27	1		1		1		1		1	
1/4	3,402.82	1/4	3,745.51	1/4	4,088.26	1/4	4,430.20	1/4	4,771.38	1/4		1/4		1/4		1/4		1/4	
1/2	3,409.96	1/2	3,752.65	1/2	4,095.40	1/2	4,437.30	1/2	4,778.49	1/2		1/2		1/2		1/2		1/2	
3/4	3,417.10	3/4	3,759.79	3/4	4,102.54	3/4	4,444.41	3/4	4,785.60	3/4		3/4		3/4		3/4		3/4	
2	3,424.24	2	3,766.93	2	4,109.68	2	4,451.52	2	4,792.70	2		2		2		2		2	
1/4	3,431.38	1/4	3,774.07	1/4	4,116.82	1/4	4,458.63	1/4	4,799.81	1/4		1/4		1/4		1/4		1/4	
1/2	3,438.52	1/2	3,781.22	1/2	4,123.96	1/2	4,465.74	1/2	4,806.92	1/2		1/2		1/2		1/2		1/2	
3/4	3,445.65	3/4	3,788.36	3/4	4,131.10	3/4	4,472.84	3/4	4,814.03	3/4		3/4		3/4		3/4		3/4	
3	3,452.79	3	3,795.50	3	4,138.25	3	4,479.95	3	4,821.14	3		3		3		3		3	
1/4	3,459.93	1/4	3,802.64	1/4	4,145.39	1/4	4,487.06	1/4	4,828.20	1/4		1/4		1/4		1/4		1/4	
1/2	3,467.07	1/2	3,809.78	1/2	4,152.53	1/2	4,494.17	1/2	4,835.26	1/2		1/2		1/2		1/2		1/2	
3/4	3,474.21	3/4	3,816.92	3/4	4,159.67	3/4	4,501.28	3/4	4,842.32	3/4		3/4		3/4		3/4		3/4	
4	3,481.35	4	3,824.06	4	4,166.81	4	4,508.38	4	4,849.39	4		4		4		4		4	
1/4	3,488.49	1/4	3,831.20	1/4	4,173.95	1/4	4,515.49	1/4	4,856.45	1/4		1/4		1/4		1/4		1/4	
1/2	3,495.63	1/2	3,838.34	1/2	4,181.09	1/2	4,522.60	1/2	4,863.51	1/2		1/2		1/2		1/2		1/2	
3/4	3,502.76	3/4	3,845.48	3/4	4,188.23	3/4	4,529.71	3/4	4,870.58	3/4		3/4		3/4		3/4		3/4	
5	3,509.90	5	3,852.62	5	4,195.37	5	4,536.82	5	4,877.64	5		5		5		5		5	
1/4	3,517.04	1/4	3,859.76	1/4	4,202.51	1/4	4,543.92	1/4	4,884.70	1/4		1/4		1/4		1/4		1/4	
1/2	3,524.18	1/2	3,866.90	1/2	4,209.65	1/2	4,551.03	1/2	4,891.76	1/2		1/2		1/2		1/2		1/2	
3/4	3,531.32	3/4	3,874.04	3/4	4,216.79	3/4	4,558.14	3/4	4,898.83	3/4		3/4		3/4		3/4		3/4	
6	3,538.46	6	3,881.18	6	4,223.93	6	4,565.25	6	4,905.89	6		6		6		6		6	
1/4	3,545.60	1/4	3,888.32	1/4	4,231.07	1/4	4,572.36	1/4	4,912.94	1/4		1/4		1/4		1/4		1/4	
1/2	3,552.74	1/2	3,895.47	1/2	4,238.21	1/2	4,579.46	1/2	4,919.99	1/2		1/2		1/2		1/2		1/2	
3/4	3,559.87	3/4	3,902.61	3/4	4,245.35	3/4	4,586.57	3/4	4,927.03	3/4		3/4		3/4		3/4		3/4	
7	3,567.01	7	3,909.75	7	4,252.50	7	4,593.68	7	4,934.08	7		7		7		7		7	
1/4	3,574.15	1/4	3,916.89	1/4	4,259.60	1/4	4,600.79	1/4	4,941.08	1/4		1/4		1/4		1/4		1/4	
1/2	3,581.29	1/2	3,924.03	1/2	4,266.71	1/2	4,607.90	1/2	4,948.07	1/2		1/2		1/2		1/2		1/2	
3/4	3,588.43	3/4	3,931.17	3/4	4,273.82	3/4	4,615.00	3/4	4,955.07	3/4		3/4		3/4		3/4		3/4	
8	3,595.57	8	3,938.31	8	4,280.93	8	4,622.11	8	4,962.06	8		8		8		8		8	
1/4	3,602.71	1/4	3,945.45	1/4	4,288.04	1/4	4,629.22	1/4	4,968.23	1/4		1/4		1/4		1/4		1/4	
1/2	3,609.84	1/2	3,952.59	1/2	4,295.14	1/2	4,636.33	1/2	4,974.40	1/2		1/2		1/2		1/2		1/2	
3/4	3,616.98	3/4	3,959.73	3/4	4,302.25	3/4	4,643.44	3/4	4,980.57	3/4		3/4		3/4		3/4		3/4	
9	3,624.12	9	3,966.87	9	4,309.36	9	4,650.54	9	4,986.74	9		9		9		9		9	
1/4	3,631.26	1/4	3,974.01	1/4	4,316.47	1/4	4,657.65	1/4	4,991.72	1/4		1/4		1/4		1/4		1/4	
1/2	3,638.40	1/2	3,981.15	1/2	4,323.58	1/2	4,664.76	1/2	4,996.70	1/2		1/2		1/2		1/2		1/2	
3/4	3,645.54	3/4	3,988.29	3/4	4,330.68	3/4	4,671.87	3/4	5,001.68	3/4		3/4		3/4		3/4		3/4	
10	3,652.68	10	3,995.43	10	4,337.79	10	4,678.98	10	5,006.66	10		10		10		10		10	
1/4	3,659.83	1/4	4,002.57	1/4	4,344.90	1/4	4,686.08	1/4	5,010.45	1/4		1/4		1/4		1/4		1/4	
1/2	3,666.97	1/2	4,009.71	1/2	4,352.01	1/2	4,693.19	1/2	5,014.24	1/2		1/2		1/2		1/2		1/2	
3/4	3,674.11	3/4	4,016.86	3/4	4,359.12	3/4	4,700.30	3/4	5,018.03	3/4		3/4		3/4		3/4		3/4	
11	3,681.25	11	4,024.00	11	4,366.22	11	4,707.41	11	5,021.82	11		11		11		11		11	
1/4	3,688.39	1/4	4,031.14	1/4	4,373.33	1/4	4,714.52	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,695.53	1/2	4,038.28	1/2	4,380.44	1/2	4,721.62	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,702.67	3/4	4,045.42	3/4	4,387.55	3/4	4,728.73	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/15/2020 CL
CALCULATED: 07/16/2020 CL
PRINTED: 07/16/2020 JS

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

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2020



BARGE "HSM 3308"

formerly the

BARGE "FMT 3310"

2 PORT INNAGE TABLE

HERMETIC GAUGE HEIGHT 16'-05 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	14.69	0	344.04	0	687.92	0	1,022.07	0	1,361.17	0	1,705.06	0	2,048.95	0	2,392.84	0	2,736.73	0	3,080.62
1/4	19.17	1/4	351.21	1/4	695.08	1/4	1,028.93	1/4	1,368.33	1/4	1,712.22	1/4	2,056.11	1/4	2,400.01	1/4	2,743.90	1/4	3,087.78
1/2	23.65	1/2	358.37	1/2	702.25	1/2	1,035.79	1/2	1,375.50	1/2	1,719.39	1/2	2,063.28	1/2	2,407.17	1/2	2,751.06	1/2	3,094.94
3/4	28.13	3/4	365.54	3/4	709.41	3/4	1,042.64	3/4	1,382.66	3/4	1,726.55	3/4	2,070.44	3/4	2,414.33	3/4	2,758.23	3/4	3,102.10
1	32.60	1	372.70	1	716.58	1	1,049.50	1	1,389.83	1	1,733.72	1	2,077.61	1	2,421.50	1	2,765.39	1	3,109.26
1/4	38.87	1/4	379.86	1/4	723.74	1/4	1,056.35	1/4	1,396.99	1/4	1,740.88	1/4	2,084.77	1/4	2,428.66	1/4	2,772.55	1/4	3,116.43
1/2	45.14	1/2	387.03	1/2	730.90	1/2	1,063.21	1/2	1,404.15	1/2	1,748.05	1/2	2,091.94	1/2	2,435.83	1/2	2,779.72	1/2	3,123.59
3/4	51.41	3/4	394.19	3/4	738.07	3/4	1,070.07	3/4	1,411.32	3/4	1,755.21	3/4	2,099.10	3/4	2,442.99	3/4	2,786.88	3/4	3,130.75
2	57.67	2	401.36	2	745.23	2	1,076.92	2	1,418.48	2	1,762.37	2	2,106.27	2	2,450.16	2	2,794.05	2	3,137.91
1/4	64.80	1/4	408.52	1/4	752.40	1/4	1,083.79	1/4	1,425.65	1/4	1,769.54	1/4	2,113.43	1/4	2,457.32	1/4	2,801.21	1/4	3,145.07
1/2	71.93	1/2	415.68	1/2	759.56	1/2	1,090.65	1/2	1,432.81	1/2	1,776.70	1/2	2,120.59	1/2	2,464.49	1/2	2,808.38	1/2	3,152.24
3/4	79.06	3/4	422.85	3/4	766.73	3/4	1,097.52	3/4	1,439.98	3/4	1,783.87	3/4	2,127.76	3/4	2,471.65	3/4	2,815.54	3/4	3,159.40
3	86.18	3	430.01	3	773.89	3	1,104.38	3	1,447.14	3	1,791.03	3	2,134.92	3	2,478.81	3	2,822.71	3	3,166.56
1/4	93.34	1/4	437.18	1/4	781.05	1/4	1,111.26	1/4	1,454.31	1/4	1,798.20	1/4	2,142.09	1/4	2,485.98	1/4	2,829.87	1/4	3,173.72
1/2	100.49	1/2	444.34	1/2	788.22	1/2	1,118.14	1/2	1,461.47	1/2	1,805.36	1/2	2,149.25	1/2	2,493.14	1/2	2,837.03	1/2	3,180.89
3/4	107.64	3/4	451.51	3/4	795.38	3/4	1,125.03	3/4	1,468.63	3/4	1,812.53	3/4	2,156.42	3/4	2,500.31	3/4	2,844.20	3/4	3,188.05
4	114.80	4	458.67	4	802.55	4	1,131.91	4	1,475.80	4	1,819.69	4	2,163.58	4	2,507.47	4	2,851.36	4	3,195.21
1/4	121.96	1/4	465.83	1/4	809.43	1/4	1,139.07	1/4	1,482.96	1/4	1,826.85	1/4	2,170.75	1/4	2,514.64	1/4	2,858.53	1/4	3,202.37
1/2	129.12	1/2	473.00	1/2	816.31	1/2	1,146.24	1/2	1,490.13	1/2	1,834.02	1/2	2,177.91	1/2	2,521.80	1/2	2,865.69	1/2	3,209.53
3/4	136.29	3/4	480.16	3/4	823.19	3/4	1,153.40	3/4	1,497.29	3/4	1,841.18	3/4	2,185.07	3/4	2,528.97	3/4	2,872.86	3/4	3,216.70
5	143.45	5	487.33	5	830.07	5	1,160.56	5	1,504.46	5	1,848.35	5	2,192.24	5	2,536.13	5	2,880.02	5	3,223.86
1/4	150.61	1/4	494.49	1/4	836.93	1/4	1,167.73	1/4	1,511.62	1/4	1,855.51	1/4	2,199.40	1/4	2,543.29	1/4	2,887.19	1/4	3,231.02
1/2	157.78	1/2	501.65	1/2	843.80	1/2	1,174.89	1/2	1,518.78	1/2	1,862.68	1/2	2,206.57	1/2	2,550.46	1/2	2,894.35	1/2	3,238.18
3/4	164.94	3/4	508.82	3/4	850.66	3/4	1,182.06	3/4	1,525.95	3/4	1,869.84	3/4	2,213.73	3/4	2,557.62	3/4	2,901.51	3/4	3,245.35
6	172.11	6	515.98	6	857.53	6	1,189.22	6	1,533.11	6	1,877.00	6	2,220.90	6	2,564.79	6	2,908.68	6	3,252.51
1/4	179.27	1/4	523.15	1/4	864.38	1/4	1,196.39	1/4	1,540.28	1/4	1,884.17	1/4	2,228.06	1/4	2,571.95	1/4	2,915.84	1/4	3,259.67
1/2	186.43	1/2	530.31	1/2	871.24	1/2	1,203.55	1/2	1,547.44	1/2	1,891.33	1/2	2,235.22	1/2	2,579.12	1/2	2,923.01	1/2	3,266.83
3/4	193.60	3/4	537.47	3/4	878.10	3/4	1,210.72	3/4	1,554.61	3/4	1,898.50	3/4	2,242.39	3/4	2,586.28	3/4	2,930.17	3/4	3,273.99
7	200.76	7	544.64	7	884.95	7	1,217.88	7	1,561.77	7	1,905.66	7	2,249.55	7	2,593.44	7	2,937.34	7	3,281.16
1/4	207.93	1/4	551.80	1/4	891.81	1/4	1,225.04	1/4	1,568.94	1/4	1,912.83	1/4	2,256.72	1/4	2,600.61	1/4	2,944.50	1/4	3,288.32
1/2	215.09	1/2	558.97	1/2	898.66	1/2	1,232.21	1/2	1,576.10	1/2	1,919.99	1/2	2,263.88	1/2	2,607.77	1/2	2,951.66	1/2	3,295.48
3/4	222.25	3/4	566.13	3/4	905.52	3/4	1,239.37	3/4	1,583.26	3/4	1,927.16	3/4	2,271.05	3/4	2,614.94	3/4	2,958.83	3/4	3,302.64
8	229.42	8	573.29	8	912.38	8	1,246.54	8	1,590.43	8	1,934.32	8	2,278.21	8	2,622.10	8	2,965.99	8	3,309.81
1/4	236.58	1/4	580.46	1/4	919.23	1/4	1,253.70	1/4	1,597.59	1/4	1,941.48	1/4	2,285.38	1/4	2,629.27	1/4	2,973.16	1/4	3,316.97
1/2	243.75	1/2	587.62	1/2	926.09	1/2	1,260.87	1/2	1,604.76	1/2	1,948.65	1/2	2,292.54	1/2	2,636.43	1/2	2,980.32	1/2	3,324.13
3/4	250.91	3/4	594.79	3/4	932.94	3/4	1,268.03	3/4	1,611.92	3/4	1,955.81	3/4	2,299.70	3/4	2,643.60	3/4	2,987.49	3/4	3,331.29
9	258.07	9	601.95	9	939.80	9	1,275.20	9	1,619.09	9	1,962.98	9	2,306.87	9	2,650.76	9	2,994.65	9	3,338.45
1/4	265.24	1/4	609.12	1/4	946.66	1/4	1,282.36	1/4	1,626.25	1/4	1,970.14	1/4	2,314.03	1/4	2,657.92	1/4	3,001.82	1/4	3,345.62
1/2	272.40	1/2	616.28	1/2	953.51	1/2	1,289.52	1/2	1,633.42	1/2	1,977.31	1/2	2,321.20	1/2	2,665.09	1/2	3,008.98	1/2	3,352.78
3/4	279.57	3/4	623.44	3/4	960.37	3/4	1,296.69	3/4	1,640.58	3/4	1,984.47	3/4	2,328.36	3/4	2,672.25	3/4	3,016.14	3/4	3,359.94
10	286.73	10	630.61	10	967.22	10	1,303.85	10	1,647.74	10	1,991.64	10	2,335.53	10	2,679.42	10	3,023.31	10	3,367.10
1/4	293.89	1/4	637.77	1/4	974.08	1/4	1,311.02	1/4	1,654.91	1/4	1,998.80	1/4	2,342.69	1/4	2,686.58	1/4	3,030.47	1/4	3,374.27
1/2	301.06	1/2	644.94	1/2	980.94	1/2	1,318.18	1/2	1,662.07	1/2	2,005.96	1/2	2,349.86	1/2	2,693.75	1/2	3,037.64	1/2	3,381.43
3/4	308.22	3/4	652.10	3/4	987.79	3/4	1,325.35	3/4	1,669.24	3/4	2,013.13	3/4	2,357.02	3/4	2,700.91	3/4	3,044.80	3/4	3,388.59
11	315.39	11	659.26	11	994.65	11	1,332.51	11	1,676.40	11	2,020.29	11	2,364.18	11	2,708.08	11	3,051.97	11	3,395.75
1/4	322.55	1/4	666.43	1/4	1,001.51	1/4	1,339.67	1/4	1,683.57	1/4	2,027.46	1/4	2,371.35	1/4	2,715.24	1/4	3,059.13	1/4	3,402.91
1/2	329.72	1/2	673.59	1/2	1,008.36	1/2	1,346.84	1/2	1,690.73	1/2	2,034.62	1/2	2,378.51	1/2	2,722.40	1/2	3,066.29	1/2	3,410.08
3/4	336.88	3/4	680.76	3/4	1,015.22	3/4	1,354.00	3/4	1,697.89	3/4	2,041.79	3/4	2,385.68	3/4	2,729.57	3/4	3,073.45	3/4	3,417.24

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 11'-06" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "HSM 3310"

formerly the
BARGE "FMT 3310"

2 PORT
INNAGE TABLE
HERMETIC
GAUGE HEIGHT 16'-05 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,424.40	0	3,768.19	0	4,111.97	0	4,455.11	0	4,797.33	0		0		0		0		0	
1/4	3,431.56	1/4	3,775.35	1/4	4,119.13	1/4	4,462.24	1/4	4,804.46	1/4		1/4		1/4		1/4		1/4	
1/2	3,438.73	1/2	3,782.51	1/2	4,126.30	1/2	4,469.36	1/2	4,811.59	1/2		1/2		1/2		1/2		1/2	
3/4	3,445.89	3/4	3,789.67	3/4	4,133.46	3/4	4,476.49	3/4	4,818.72	3/4		3/4		3/4		3/4		3/4	
1	3,453.05	1	3,796.84	1	4,140.62	1	4,483.62	1	4,825.84	1		1		1		1		1	
1/4	3,460.21	1/4	3,804.00	1/4	4,147.78	1/4	4,490.75	1/4	4,832.97	1/4		1/4		1/4		1/4		1/4	
1/2	3,467.37	1/2	3,811.16	1/2	4,154.95	1/2	4,497.88	1/2	4,840.10	1/2		1/2		1/2		1/2		1/2	
3/4	3,474.54	3/4	3,818.32	3/4	4,162.11	3/4	4,505.01	3/4	4,847.23	3/4		3/4		3/4		3/4		3/4	
2	3,481.70	2	3,825.48	2	4,169.27	2	4,512.14	2	4,854.36	2		2		2		2		2	
1/4	3,488.86	1/4	3,832.65	1/4	4,176.43	1/4	4,519.27	1/4	4,861.49	1/4		1/4		1/4		1/4		1/4	
1/2	3,496.02	1/2	3,839.81	1/2	4,183.59	1/2	4,526.40	1/2	4,868.62	1/2		1/2		1/2		1/2		1/2	
3/4	3,503.18	3/4	3,846.97	3/4	4,190.76	3/4	4,533.53	3/4	4,875.75	3/4		3/4		3/4		3/4		3/4	
3	3,510.35	3	3,854.13	3	4,197.92	3	4,540.66	3	4,882.88	3		3		3		3		3	
1/4	3,517.51	1/4	3,861.29	1/4	4,205.08	1/4	4,547.79	1/4	4,889.97	1/4		1/4		1/4		1/4		1/4	
1/2	3,524.67	1/2	3,868.46	1/2	4,212.24	1/2	4,554.92	1/2	4,897.05	1/2		1/2		1/2		1/2		1/2	
3/4	3,531.83	3/4	3,875.62	3/4	4,219.40	3/4	4,562.05	3/4	4,904.14	3/4		3/4		3/4		3/4		3/4	
4	3,539.00	4	3,882.78	4	4,226.57	4	4,569.18	4	4,911.22	4		4		4		4		4	
1/4	3,546.16	1/4	3,889.94	1/4	4,233.73	1/4	4,576.31	1/4	4,918.31	1/4		1/4		1/4		1/4		1/4	
1/2	3,553.32	1/2	3,897.11	1/2	4,240.89	1/2	4,583.44	1/2	4,925.39	1/2		1/2		1/2		1/2		1/2	
3/4	3,560.48	3/4	3,904.27	3/4	4,248.05	3/4	4,590.57	3/4	4,932.48	3/4		3/4		3/4		3/4		3/4	
5	3,567.64	5	3,911.43	5	4,255.22	5	4,597.70	5	4,939.56	5		5		5		5		5	
1/4	3,574.81	1/4	3,918.59	1/4	4,262.38	1/4	4,604.83	1/4	4,946.64	1/4		1/4		1/4		1/4		1/4	
1/2	3,581.97	1/2	3,925.75	1/2	4,269.54	1/2	4,611.96	1/2	4,953.73	1/2		1/2		1/2		1/2		1/2	
3/4	3,589.13	3/4	3,932.92	3/4	4,276.70	3/4	4,619.09	3/4	4,960.81	3/4		3/4		3/4		3/4		3/4	
6	3,596.29	6	3,940.08	6	4,283.86	6	4,626.22	6	4,967.89	6		6		6		6		6	
1/4	3,603.46	1/4	3,947.24	1/4	4,291.03	1/4	4,633.35	1/4	4,974.96	1/4		1/4		1/4		1/4		1/4	
1/2	3,610.62	1/2	3,954.40	1/2	4,298.19	1/2	4,640.48	1/2	4,982.03	1/2		1/2		1/2		1/2		1/2	
3/4	3,617.78	3/4	3,961.57	3/4	4,305.35	3/4	4,647.60	3/4	4,989.10	3/4		3/4		3/4		3/4		3/4	
7	3,624.94	7	3,968.73	7	4,312.51	7	4,654.73	7	4,996.17	7		7		7		7		7	
1/4	3,632.10	1/4	3,975.89	1/4	4,319.64	1/4	4,661.86	1/4	5,003.19	1/4		1/4		1/4		1/4		1/4	
1/2	3,639.27	1/2	3,983.05	1/2	4,326.77	1/2	4,668.99	1/2	5,010.20	1/2		1/2		1/2		1/2		1/2	
3/4	3,646.43	3/4	3,990.21	3/4	4,333.90	3/4	4,676.12	3/4	5,017.22	3/4		3/4		3/4		3/4		3/4	
8	3,653.59	8	3,997.38	8	4,341.03	8	4,683.25	8	5,024.23	8		8		8		8		8	
1/4	3,660.75	1/4	4,004.54	1/4	4,348.16	1/4	4,690.38	1/4	5,030.42	1/4		1/4		1/4		1/4		1/4	
1/2	3,667.92	1/2	4,011.70	1/2	4,355.29	1/2	4,697.51	1/2	5,036.61	1/2		1/2		1/2		1/2		1/2	
3/4	3,675.08	3/4	4,018.86	3/4	4,362.42	3/4	4,704.64	3/4	5,042.80	3/4		3/4		3/4		3/4		3/4	
9	3,682.24	9	4,026.03	9	4,369.55	9	4,711.77	9	5,048.99	9		9		9		9		9	
1/4	3,689.40	1/4	4,033.19	1/4	4,376.68	1/4	4,718.90	1/4	5,053.98	1/4		1/4		1/4		1/4		1/4	
1/2	3,696.56	1/2	4,040.35	1/2	4,383.81	1/2	4,726.03	1/2	5,058.98	1/2		1/2		1/2		1/2		1/2	
3/4	3,703.73	3/4	4,047.51	3/4	4,390.94	3/4	4,733.16	3/4	5,063.98	3/4		3/4		3/4		3/4		3/4	
10	3,710.89	10	4,054.67	10	4,398.07	10	4,740.29	10	5,068.97	10		10		10		10		10	
1/4	3,718.05	1/4	4,061.84	1/4	4,405.20	1/4	4,747.42	1/4	5,072.77	1/4		1/4		1/4		1/4		1/4	
1/2	3,725.21	1/2	4,069.00	1/2	4,412.33	1/2	4,754.55	1/2	5,076.57	1/2		1/2		1/2		1/2		1/2	
3/4	3,732.38	3/4	4,076.16	3/4	4,419.46	3/4	4,761.68	3/4	5,080.37	3/4		3/4		3/4		3/4		3/4	
11	3,739.54	11	4,083.32	11	4,426.59	11	4,768.81	11	5,084.17	11		11		11		11		11	
1/4	3,746.70	1/4	4,090.49	1/4	4,433.72	1/4	4,775.94	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,753.86	1/2	4,097.65	1/2	4,440.85	1/2	4,783.07	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,761.02	3/4	4,104.81	3/4	4,447.98	3/4	4,790.20	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/15/2020 CL
CALCULATED: 07/16/2020 CL
PRINTED: 07/16/2020 JS

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

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2020



BARGE "HSM 3310"

formerly the

BARGE "FMT 3310"

2 STBD
INNAGE TABLE

HERMETIC
GAUGE HEIGHT 16'-05"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	14.70	0	344.28	0	688.39	0	1,032.15	0	1,376.14	0	1,720.26	0	2,064.39	0	2,408.52	0	2,752.64	0	3,096.76
1/4	19.19	1/4	351.45	1/4	695.56	1/4	1,039.30	1/4	1,383.31	1/4	1,727.43	1/4	2,071.56	1/4	2,415.69	1/4	2,759.81	1/4	3,103.93
1/2	23.67	1/2	358.62	1/2	702.73	1/2	1,046.46	1/2	1,390.48	1/2	1,734.60	1/2	2,078.73	1/2	2,422.86	1/2	2,766.98	1/2	3,111.10
3/4	28.15	3/4	365.79	3/4	709.90	3/4	1,053.62	3/4	1,397.65	3/4	1,741.77	3/4	2,085.90	3/4	2,430.03	3/4	2,774.15	3/4	3,118.26
1	32.63	1	372.96	1	717.07	1	1,060.77	1	1,404.82	1	1,748.94	1	2,093.07	1	2,437.19	1	2,781.32	1	3,125.43
1/4	38.90	1/4	380.13	1/4	724.24	1/4	1,067.93	1/4	1,411.99	1/4	1,756.11	1/4	2,100.24	1/4	2,444.36	1/4	2,788.49	1/4	3,132.60
1/2	45.17	1/2	387.29	1/2	731.41	1/2	1,075.08	1/2	1,419.15	1/2	1,763.28	1/2	2,107.41	1/2	2,451.53	1/2	2,795.66	1/2	3,139.76
3/4	51.44	3/4	394.46	3/4	738.58	3/4	1,082.24	3/4	1,426.32	3/4	1,770.45	3/4	2,114.58	3/4	2,458.70	3/4	2,802.83	3/4	3,146.93
2	57.71	2	401.63	2	745.74	2	1,089.39	2	1,433.49	2	1,777.62	2	2,121.75	2	2,465.87	2	2,810.00	2	3,154.10
1/4	64.85	1/4	408.80	1/4	752.91	1/4	1,096.55	1/4	1,440.66	1/4	1,784.79	1/4	2,128.92	1/4	2,473.04	1/4	2,817.17	1/4	3,161.27
1/2	71.98	1/2	415.97	1/2	760.08	1/2	1,103.72	1/2	1,447.83	1/2	1,791.96	1/2	2,136.08	1/2	2,480.21	1/2	2,824.34	1/2	3,168.43
3/4	79.11	3/4	423.14	3/4	767.25	3/4	1,110.88	3/4	1,455.00	3/4	1,799.13	3/4	2,143.25	3/4	2,487.38	3/4	2,831.51	3/4	3,175.60
3	86.24	3	430.31	3	774.42	3	1,118.04	3	1,462.17	3	1,806.30	3	2,150.42	3	2,494.55	3	2,838.68	3	3,182.77
1/4	93.40	1/4	437.48	1/4	781.59	1/4	1,125.21	1/4	1,469.34	1/4	1,813.47	1/4	2,157.59	1/4	2,501.72	1/4	2,845.85	1/4	3,189.93
1/2	100.56	1/2	444.65	1/2	788.76	1/2	1,132.38	1/2	1,476.51	1/2	1,820.64	1/2	2,164.76	1/2	2,508.89	1/2	2,853.01	1/2	3,197.10
3/4	107.72	3/4	451.82	3/4	795.93	3/4	1,139.55	3/4	1,483.68	3/4	1,827.80	3/4	2,171.93	3/4	2,516.06	3/4	2,860.18	3/4	3,204.27
4	114.88	4	458.98	4	803.10	4	1,146.72	4	1,490.85	4	1,834.97	4	2,179.10	4	2,523.23	4	2,867.35	4	3,211.44
1/4	122.04	1/4	466.15	1/4	810.27	1/4	1,153.89	1/4	1,498.02	1/4	1,842.14	1/4	2,186.27	1/4	2,530.40	1/4	2,874.52	1/4	3,218.60
1/2	129.21	1/2	473.32	1/2	817.43	1/2	1,161.06	1/2	1,505.19	1/2	1,849.31	1/2	2,193.44	1/2	2,537.57	1/2	2,881.69	1/2	3,225.77
3/4	136.38	3/4	480.49	3/4	824.60	3/4	1,168.23	3/4	1,512.36	3/4	1,856.48	3/4	2,200.61	3/4	2,544.73	3/4	2,888.86	3/4	3,232.94
5	143.55	5	487.66	5	831.77	5	1,175.40	5	1,519.52	5	1,863.65	5	2,207.78	5	2,551.90	5	2,896.03	5	3,240.10
1/4	150.72	1/4	494.83	1/4	838.94	1/4	1,182.57	1/4	1,526.69	1/4	1,870.82	1/4	2,214.95	1/4	2,559.07	1/4	2,903.20	1/4	3,247.27
1/2	157.89	1/2	502.00	1/2	846.10	1/2	1,189.74	1/2	1,533.86	1/2	1,877.99	1/2	2,222.12	1/2	2,566.24	1/2	2,910.37	1/2	3,254.44
3/4	165.06	3/4	509.17	3/4	853.26	3/4	1,196.91	3/4	1,541.03	3/4	1,885.16	3/4	2,229.29	3/4	2,573.41	3/4	2,917.54	3/4	3,261.61
6	172.22	6	516.34	6	860.43	6	1,204.08	6	1,548.20	6	1,892.33	6	2,236.45	6	2,580.58	6	2,924.71	6	3,268.77
1/4	179.39	1/4	523.51	1/4	867.58	1/4	1,211.24	1/4	1,555.37	1/4	1,899.50	1/4	2,243.62	1/4	2,587.75	1/4	2,931.88	1/4	3,275.94
1/2	186.56	1/2	530.67	1/2	874.74	1/2	1,218.41	1/2	1,562.54	1/2	1,906.67	1/2	2,250.79	1/2	2,594.92	1/2	2,939.05	1/2	3,283.11
3/4	193.73	3/4	537.84	3/4	881.89	3/4	1,225.58	3/4	1,569.71	3/4	1,913.84	3/4	2,257.96	3/4	2,602.09	3/4	2,946.22	3/4	3,290.27
7	200.90	7	545.01	7	889.05	7	1,232.75	7	1,576.88	7	1,921.01	7	2,265.13	7	2,609.26	7	2,953.38	7	3,297.44
1/4	208.07	1/4	552.18	1/4	896.20	1/4	1,239.92	1/4	1,584.05	1/4	1,928.17	1/4	2,272.30	1/4	2,616.43	1/4	2,960.55	1/4	3,304.61
1/2	215.24	1/2	559.35	1/2	903.36	1/2	1,247.09	1/2	1,591.22	1/2	1,935.34	1/2	2,279.47	1/2	2,623.60	1/2	2,967.72	1/2	3,311.77
3/4	222.41	3/4	566.52	3/4	910.51	3/4	1,254.26	3/4	1,598.39	3/4	1,942.51	3/4	2,286.64	3/4	2,630.77	3/4	2,974.89	3/4	3,318.94
8	229.58	8	573.69	8	917.67	8	1,261.43	8	1,605.56	8	1,949.68	8	2,293.81	8	2,637.94	8	2,982.06	8	3,326.11
1/4	236.75	1/4	580.86	1/4	924.82	1/4	1,268.60	1/4	1,612.73	1/4	1,956.85	1/4	2,300.98	1/4	2,645.10	1/4	2,989.23	1/4	3,333.28
1/2	243.91	1/2	588.03	1/2	931.98	1/2	1,275.77	1/2	1,619.89	1/2	1,964.02	1/2	2,308.15	1/2	2,652.27	1/2	2,996.40	1/2	3,340.44
3/4	251.08	3/4	595.20	3/4	939.13	3/4	1,282.94	3/4	1,627.06	3/4	1,971.19	3/4	2,315.32	3/4	2,659.44	3/4	3,003.57	3/4	3,347.61
9	258.25	9	602.36	9	946.29	9	1,290.11	9	1,634.23	9	1,978.36	9	2,322.49	9	2,666.61	9	3,010.74	9	3,354.78
1/4	265.42	1/4	609.53	1/4	953.44	1/4	1,297.28	1/4	1,641.40	1/4	1,985.53	1/4	2,329.66	1/4	2,673.78	1/4	3,017.91	1/4	3,361.94
1/2	272.59	1/2	616.70	1/2	960.60	1/2	1,304.45	1/2	1,648.57	1/2	1,992.70	1/2	2,336.82	1/2	2,680.95	1/2	3,025.08	1/2	3,369.11
3/4	279.76	3/4	623.87	3/4	967.75	3/4	1,311.61	3/4	1,655.74	3/4	1,999.87	3/4	2,343.99	3/4	2,688.12	3/4	3,032.25	3/4	3,376.28
10	286.93	10	631.04	10	974.91	10	1,318.78	10	1,662.91	10	2,007.04	10	2,351.16	10	2,695.29	10	3,039.42	10	3,383.45
1/4	294.10	1/4	638.21	1/4	982.06	1/4	1,325.95	1/4	1,670.08	1/4	2,014.21	1/4	2,358.33	1/4	2,702.46	1/4	3,046.59	1/4	3,390.61
1/2	301.27	1/2	645.38	1/2	989.22	1/2	1,333.12	1/2	1,677.25	1/2	2,021.38	1/2	2,365.50	1/2	2,709.63	1/2	3,053.75	1/2	3,397.78
3/4	308.44	3/4	652.55	3/4	996.37	3/4	1,340.29	3/4	1,684.42	3/4	2,028.54	3/4	2,372.67	3/4	2,716.80	3/4	3,060.92	3/4	3,404.95
11	315.60	11	659.72	11	1,003.53	11	1,347.46	11	1,691.59	11	2,035.71	11	2,379.84	11	2,723.97	11	3,068.09	11	3,412.11
1/4	322.77	1/4	666.89	1/4	1,010.68	1/4	1,354.63	1/4	1,698.76	1/4	2,042.88	1/4	2,387.01	1/4	2,731.14	1/4	3,075.26	1/4	3,419.28
1/2	329.94	1/2	674.05	1/2	1,017.84	1/2	1,361.80	1/2	1,705.93	1/2	2,050.05	1/2	2,394.18	1/2	2,738.31	1/2	3,082.43	1/2	3,426.45
3/4	337.11	3/4	681.22	3/4	1,024.99	3/4	1,368.97	3/4	1,713.10	3/4	2,057.22	3/4	2,401.35	3/4	2,745.47	3/4	3,089.59	3/4	3,433.62

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 11'-06" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "HSM 3310"
formerly the
BARGE "FMT 3310"

2 STBD
INNAGE TABLE
HERMETIC
GAUGE HEIGHT 16'-05"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,440.78	0	3,784.83	0	4,128.96	0	4,472.42	0	4,814.97	0		0		0		0		0	
1/4	3,447.95	1/4	3,792.00	1/4	4,136.13	1/4	4,479.56	1/4	4,822.11	1/4		1/4		1/4		1/4		1/4	
1/2	3,455.12	1/2	3,799.17	1/2	4,143.29	1/2	4,486.70	1/2	4,829.24	1/2		1/2		1/2		1/2		1/2	
3/4	3,462.28	3/4	3,806.34	3/4	4,150.46	3/4	4,493.83	3/4	4,836.38	3/4		3/4		3/4		3/4		3/4	
1	3,469.45	1	3,813.51	1	4,157.63	1	4,500.97	1	4,843.52	1		1		1		1		1	
1/4	3,476.62	1/4	3,820.68	1/4	4,164.80	1/4	4,508.11	1/4	4,850.65	1/4		1/4		1/4		1/4		1/4	
1/2	3,483.79	1/2	3,827.85	1/2	4,171.97	1/2	4,515.24	1/2	4,857.79	1/2		1/2		1/2		1/2		1/2	
3/4	3,490.95	3/4	3,835.01	3/4	4,179.14	3/4	4,522.38	3/4	4,864.93	3/4		3/4		3/4		3/4		3/4	
2	3,498.12	2	3,842.18	2	4,186.31	2	4,529.52	2	4,872.06	2		2		2		2		2	
1/4	3,505.29	1/4	3,849.35	1/4	4,193.48	1/4	4,536.65	1/4	4,879.20	1/4		1/4		1/4		1/4		1/4	
1/2	3,512.45	1/2	3,856.52	1/2	4,200.65	1/2	4,543.79	1/2	4,886.34	1/2		1/2		1/2		1/2		1/2	
3/4	3,519.62	3/4	3,863.69	3/4	4,207.82	3/4	4,550.92	3/4	4,893.47	3/4		3/4		3/4		3/4		3/4	
3	3,526.79	3	3,870.86	3	4,214.99	3	4,558.06	3	4,900.61	3		3		3		3		3	
1/4	3,533.95	1/4	3,878.03	1/4	4,222.16	1/4	4,565.20	1/4	4,907.70	1/4		1/4		1/4		1/4		1/4	
1/2	3,541.12	1/2	3,885.20	1/2	4,229.33	1/2	4,572.33	1/2	4,914.79	1/2		1/2		1/2		1/2		1/2	
3/4	3,548.29	3/4	3,892.37	3/4	4,236.50	3/4	4,579.47	3/4	4,921.88	3/4		3/4		3/4		3/4		3/4	
4	3,555.46	4	3,899.54	4	4,243.66	4	4,586.61	4	4,928.98	4		4		4		4		4	
1/4	3,562.62	1/4	3,906.71	1/4	4,250.83	1/4	4,593.74	1/4	4,936.07	1/4		1/4		1/4		1/4		1/4	
1/2	3,569.79	1/2	3,913.88	1/2	4,258.00	1/2	4,600.88	1/2	4,943.16	1/2		1/2		1/2		1/2		1/2	
3/4	3,576.96	3/4	3,921.05	3/4	4,265.17	3/4	4,608.02	3/4	4,950.25	3/4		3/4		3/4		3/4		3/4	
5	3,584.12	5	3,928.22	5	4,272.34	5	4,615.15	5	4,957.34	5		5		5		5		5	
1/4	3,591.29	1/4	3,935.39	1/4	4,279.51	1/4	4,622.29	1/4	4,964.43	1/4		1/4		1/4		1/4		1/4	
1/2	3,598.46	1/2	3,942.55	1/2	4,286.68	1/2	4,629.43	1/2	4,971.52	1/2		1/2		1/2		1/2		1/2	
3/4	3,605.63	3/4	3,949.72	3/4	4,293.85	3/4	4,636.56	3/4	4,978.61	3/4		3/4		3/4		3/4		3/4	
6	3,612.79	6	3,956.89	6	4,301.02	6	4,643.70	6	4,985.70	6		6		6		6		6	
1/4	3,619.96	1/4	3,964.06	1/4	4,308.19	1/4	4,650.83	1/4	4,992.78	1/4		1/4		1/4		1/4		1/4	
1/2	3,627.13	1/2	3,971.23	1/2	4,315.36	1/2	4,657.97	1/2	4,999.85	1/2		1/2		1/2		1/2		1/2	
3/4	3,634.29	3/4	3,978.40	3/4	4,322.53	3/4	4,665.11	3/4	5,006.93	3/4		3/4		3/4		3/4		3/4	
7	3,641.46	7	3,985.57	7	4,329.70	7	4,672.24	7	5,014.01	7		7		7		7		7	
1/4	3,648.63	1/4	3,992.74	1/4	4,336.83	1/4	4,679.38	1/4	5,021.03	1/4		1/4		1/4		1/4		1/4	
1/2	3,655.80	1/2	3,999.91	1/2	4,343.97	1/2	4,686.52	1/2	5,028.05	1/2		1/2		1/2		1/2		1/2	
3/4	3,662.96	3/4	4,007.08	3/4	4,351.11	3/4	4,693.65	3/4	5,035.08	3/4		3/4		3/4		3/4		3/4	
8	3,670.13	8	4,014.25	8	4,358.24	8	4,700.79	8	5,042.10	8		8		8		8		8	
1/4	3,677.30	1/4	4,021.42	1/4	4,365.38	1/4	4,707.93	1/4	5,048.29	1/4		1/4		1/4		1/4		1/4	
1/2	3,684.46	1/2	4,028.59	1/2	4,372.51	1/2	4,715.06	1/2	5,054.49	1/2		1/2		1/2		1/2		1/2	
3/4	3,691.63	3/4	4,035.76	3/4	4,379.65	3/4	4,722.20	3/4	5,060.68	3/4		3/4		3/4		3/4		3/4	
9	3,698.80	9	4,042.92	9	4,386.79	9	4,729.33	9	5,066.88	9		9		9		9		9	
1/4	3,705.97	1/4	4,050.09	1/4	4,393.92	1/4	4,736.47	1/4	5,071.88	1/4		1/4		1/4		1/4		1/4	
1/2	3,713.14	1/2	4,057.26	1/2	4,401.06	1/2	4,743.61	1/2	5,076.88	1/2		1/2		1/2		1/2		1/2	
3/4	3,720.31	3/4	4,064.43	3/4	4,408.20	3/4	4,750.74	3/4	5,081.88	3/4		3/4		3/4		3/4		3/4	
10	3,727.48	10	4,071.60	10	4,415.33	10	4,757.88	10	5,086.88	10		10		10		10		10	
1/4	3,734.64	1/4	4,078.77	1/4	4,422.47	1/4	4,765.02	1/4	5,090.69	1/4		1/4		1/4		1/4		1/4	
1/2	3,741.81	1/2	4,085.94	1/2	4,429.61	1/2	4,772.15	1/2	5,094.49	1/2		1/2		1/2		1/2		1/2	
3/4	3,748.98	3/4	4,093.11	3/4	4,436.74	3/4	4,779.29	3/4	5,098.30	3/4		3/4		3/4		3/4		3/4	
11	3,756.15	11	4,100.28	11	4,443.88	11	4,786.43	11	5,102.10	11		11		11		11		11	
1/4	3,763.32	1/4	4,107.45	1/4	4,451.02	1/4	4,793.56	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,770.49	1/2	4,114.62	1/2	4,458.15	1/2	4,800.70	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,777.66	3/4	4,121.79	3/4	4,465.29	3/4	4,807.84	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/15/2020 CL
CALCULATED: 07/16/2020 CL
PRINTED: 07/16/2020 JS

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& ANALYSIS, INC.

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CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2020



BARGE "HSM 3310"

formerly the
BARGE "FMT 3310"

3 PORT INNAGE TABLE

HERMETIC GAUGE HEIGHT 16'-04 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	14.63	0	342.58	0	684.48	0	1,016.73	0	1,353.92	0	1,695.71	0	2,037.50	0	2,379.30	0	2,721.06	0	3,062.98
1/4	19.09	1/4	349.71	1/4	691.60	1/4	1,023.54	1/4	1,361.04	1/4	1,702.83	1/4	2,044.63	1/4	2,386.42	1/4	2,728.18	1/4	3,070.09
1/2	23.55	1/2	356.85	1/2	698.73	1/2	1,030.35	1/2	1,368.16	1/2	1,709.95	1/2	2,051.75	1/2	2,393.54	1/2	2,735.30	1/2	3,077.21
3/4	28.01	3/4	363.98	3/4	705.85	3/4	1,037.17	3/4	1,375.28	3/4	1,717.07	3/4	2,058.87	3/4	2,400.66	3/4	2,742.42	3/4	3,084.32
1	32.47	1	371.11	1	712.97	1	1,043.98	1	1,382.40	1	1,724.19	1	2,065.99	1	2,407.78	1	2,749.54	1	3,091.44
1/4	38.71	1/4	378.24	1/4	720.09	1/4	1,050.79	1/4	1,389.52	1/4	1,731.31	1/4	2,073.11	1/4	2,414.90	1/4	2,756.65	1/4	3,098.55
1/2	44.95	1/2	385.36	1/2	727.21	1/2	1,057.60	1/2	1,396.64	1/2	1,738.44	1/2	2,080.23	1/2	2,422.02	1/2	2,763.77	1/2	3,105.67
3/4	51.19	3/4	392.48	3/4	734.34	3/4	1,064.41	3/4	1,403.76	3/4	1,745.56	3/4	2,087.35	3/4	2,429.14	3/4	2,770.89	3/4	3,112.79
2	57.43	2	399.60	2	741.46	2	1,071.22	2	1,410.88	2	1,752.68	2	2,094.47	2	2,436.26	2	2,777.01	2	3,119.90
1/4	64.53	1/4	406.72	1/4	748.58	1/4	1,078.04	1/4	1,418.00	1/4	1,759.80	1/4	2,101.59	1/4	2,443.38	1/4	2,785.13	1/4	3,127.00
1/2	71.62	1/2	413.85	1/2	755.70	1/2	1,084.86	1/2	1,425.12	1/2	1,766.92	1/2	2,108.71	1/2	2,450.51	1/2	2,792.25	1/2	3,134.10
3/4	78.72	3/4	420.97	3/4	762.82	3/4	1,091.68	3/4	1,432.25	3/4	1,774.04	3/4	2,115.83	3/4	2,457.63	3/4	2,799.37	3/4	3,141.20
3	85.82	3	428.09	3	769.95	3	1,098.50	3	1,439.37	3	1,781.16	3	2,122.95	3	2,464.75	3	2,806.49	3	3,148.30
1/4	92.94	1/4	435.21	1/4	777.07	1/4	1,105.39	1/4	1,446.49	1/4	1,788.28	1/4	2,130.07	1/4	2,471.87	1/4	2,813.61	1/4	3,155.39
1/2	100.06	1/2	442.33	1/2	784.19	1/2	1,112.28	1/2	1,453.61	1/2	1,795.40	1/2	2,137.19	1/2	2,478.99	1/2	2,820.73	1/2	3,162.49
3/4	107.19	3/4	449.46	3/4	791.31	3/4	1,119.17	3/4	1,460.73	3/4	1,802.52	3/4	2,144.32	3/4	2,486.11	3/4	2,827.85	3/4	3,169.59
4	114.31	4	456.58	4	798.43	4	1,126.06	4	1,467.85	4	1,809.64	4	2,151.44	4	2,493.23	4	2,834.97	4	3,176.69
1/4	121.44	1/4	463.70	1/4	805.32	1/4	1,133.18	1/4	1,474.97	1/4	1,816.76	1/4	2,158.56	1/4	2,500.35	1/4	2,842.09	1/4	3,183.79
1/2	128.57	1/2	470.82	1/2	812.21	1/2	1,140.30	1/2	1,482.09	1/2	1,823.88	1/2	2,165.68	1/2	2,507.47	1/2	2,849.21	1/2	3,190.89
3/4	135.71	3/4	477.94	3/4	819.10	3/4	1,147.42	3/4	1,489.21	3/4	1,831.00	3/4	2,172.80	3/4	2,514.59	3/4	2,856.33	3/4	3,197.98
5	142.84	5	485.07	5	825.99	5	1,154.54	5	1,496.33	5	1,838.13	5	2,179.92	5	2,521.71	5	2,863.45	5	3,205.08
1/4	149.97	1/4	492.19	1/4	832.81	1/4	1,161.66	1/4	1,503.45	1/4	1,845.25	1/4	2,187.04	1/4	2,528.83	1/4	2,870.57	1/4	3,212.18
1/2	157.11	1/2	499.31	1/2	839.63	1/2	1,168.78	1/2	1,510.57	1/2	1,852.37	1/2	2,194.16	1/2	2,535.95	1/2	2,877.69	1/2	3,219.28
3/4	164.24	3/4	506.43	3/4	846.45	3/4	1,175.90	3/4	1,517.69	3/4	1,859.49	3/4	2,201.28	3/4	2,543.07	3/4	2,884.81	3/4	3,226.38
6	171.37	6	513.55	6	853.27	6	1,183.02	6	1,524.81	6	1,866.61	6	2,208.40	6	2,550.19	6	2,891.93	6	3,233.48
1/4	178.51	1/4	520.68	1/4	860.08	1/4	1,190.14	1/4	1,531.93	1/4	1,873.73	1/4	2,215.52	1/4	2,557.31	1/4	2,899.05	1/4	3,240.58
1/2	185.64	1/2	527.80	1/2	866.89	1/2	1,197.26	1/2	1,539.06	1/2	1,880.85	1/2	2,222.64	1/2	2,564.43	1/2	2,906.17	1/2	3,247.67
3/4	192.77	3/4	534.92	3/4	873.70	3/4	1,204.38	3/4	1,546.18	3/4	1,887.97	3/4	2,229.76	3/4	2,571.55	3/4	2,913.29	3/4	3,254.77
7	199.91	7	542.04	7	880.51	7	1,211.50	7	1,553.30	7	1,895.09	7	2,236.88	7	2,578.66	7	2,920.41	7	3,261.87
1/4	207.04	1/4	549.16	1/4	887.32	1/4	1,218.62	1/4	1,560.42	1/4	1,902.21	1/4	2,244.00	1/4	2,585.78	1/4	2,927.54	1/4	3,268.97
1/2	214.18	1/2	556.29	1/2	894.13	1/2	1,225.74	1/2	1,567.54	1/2	1,909.33	1/2	2,251.13	1/2	2,592.90	1/2	2,934.67	1/2	3,276.07
3/4	221.31	3/4	563.41	3/4	900.94	3/4	1,232.87	3/4	1,574.66	3/4	1,916.45	3/4	2,258.25	3/4	2,600.02	3/4	2,941.80	3/4	3,283.17
8	228.44	8	570.53	8	907.76	8	1,239.99	8	1,581.78	8	1,923.57	8	2,265.37	8	2,607.14	8	2,948.93	8	3,290.27
1/4	235.58	1/4	577.65	1/4	914.57	1/4	1,247.11	1/4	1,588.90	1/4	1,930.69	1/4	2,272.49	1/4	2,614.26	1/4	2,956.06	1/4	3,297.37
1/2	242.71	1/2	584.77	1/2	921.38	1/2	1,254.23	1/2	1,596.02	1/2	1,937.81	1/2	2,279.61	1/2	2,621.38	1/2	2,963.20	1/2	3,304.47
3/4	249.84	3/4	591.90	3/4	928.19	3/4	1,261.35	3/4	1,603.14	3/4	1,944.94	3/4	2,286.73	3/4	2,628.50	3/4	2,970.33	3/4	3,311.57
9	256.98	9	599.02	9	935.00	9	1,268.47	9	1,610.26	9	1,952.06	9	2,293.85	9	2,635.62	9	2,977.46	9	3,318.67
1/4	264.11	1/4	606.14	1/4	941.81	1/4	1,275.59	1/4	1,617.38	1/4	1,959.18	1/4	2,300.97	1/4	2,642.74	1/4	2,984.59	1/4	3,325.77
1/2	271.24	1/2	613.26	1/2	948.62	1/2	1,282.71	1/2	1,624.50	1/2	1,966.30	1/2	2,308.09	1/2	2,649.86	1/2	2,991.72	1/2	3,332.87
3/4	278.38	3/4	620.38	3/4	955.43	3/4	1,289.83	3/4	1,631.62	3/4	1,973.42	3/4	2,315.21	3/4	2,656.98	3/4	2,998.85	3/4	3,339.97
10	285.51	10	627.51	10	962.24	10	1,296.95	10	1,638.75	10	1,980.54	10	2,322.33	10	2,664.10	10	3,005.99	10	3,347.07
1/4	292.64	1/4	634.63	1/4	969.05	1/4	1,304.07	1/4	1,645.87	1/4	1,987.66	1/4	2,329.45	1/4	2,671.22	1/4	3,013.12	1/4	3,354.14
1/2	299.78	1/2	641.75	1/2	975.87	1/2	1,311.19	1/2	1,652.99	1/2	1,994.78	1/2	2,336.57	1/2	2,678.34	1/2	3,020.25	1/2	3,355.74
3/4	306.91	3/4	648.87	3/4	982.68	3/4	1,318.31	3/4	1,660.11	3/4	2,001.90	3/4	2,343.69	3/4	2,685.46	3/4	3,027.38	3/4	3,360.08
11	314.05	11	655.99	11	989.49	11	1,325.43	11	1,667.23	11	2,009.02	11	2,350.82	11	2,692.58	11	3,034.51	11	3,364.42
1/4	321.18	1/4	663.12	1/4	996.30	1/4	1,332.56	1/4	1,674.35	1/4	2,016.14	1/4	2,357.94	1/4	2,699.70	1/4	3,041.63	1/4	3,368.76
1/2	328.31	1/2	670.24	1/2	1,003.11	1/2	1,339.68	1/2	1,681.47	1/2	2,023.26	1/2	2,365.06	1/2	2,706.82	1/2	3,048.74	1/2	3,373.10
3/4	335.45	3/4	677.36	3/4	1,009.92	3/4	1,346.80	3/4	1,688.59	3/4	2,030.38	3/4	2,372.18	3/4	2,713.94	3/4	3,055.86	3/4	3,377.43

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 11'-06" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD.

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



BARGE "HSM 3310"

formerly the
BARGE "FMT 3310"

**3 PORT
INNAGE TABLE
HERMETIC
GAUGE HEIGHT 16'-04 3/4"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,381.77	0	3,591.05	0	3,800.90	0	4,010.37	0	4,219.31	0		0		0		0		0	
1/4	3,386.13	1/4	3,595.43	1/4	3,805.28	1/4	4,014.73	1/4	4,223.66	1/4		1/4		1/4		1/4		1/4	
1/2	3,390.48	1/2	3,599.80	1/2	3,809.65	1/2	4,019.08	1/2	4,228.01	1/2		1/2		1/2		1/2		1/2	
3/4	3,394.84	3/4	3,604.17	3/4	3,814.02	3/4	4,023.43	3/4	4,232.37	3/4		3/4		3/4		3/4		3/4	
1	3,399.20	1	3,608.54	1	3,818.39	1	4,027.79	1	4,236.72	1		1		1		1		1	
1/4	3,403.55	1/4	3,612.91	1/4	3,822.76	1/4	4,032.14	1/4	4,241.07	1/4		1/4		1/4		1/4		1/4	
1/2	3,407.91	1/2	3,617.28	1/2	3,827.14	1/2	4,036.49	1/2	4,245.43	1/2		1/2		1/2		1/2		1/2	
3/4	3,412.26	3/4	3,621.66	3/4	3,831.51	3/4	4,040.84	3/4	4,249.78	3/4		3/4		3/4		3/4		3/4	
2	3,416.62	2	3,626.03	2	3,835.88	2	4,045.20	2	4,254.13	2		2		2		2		2	
1/4	3,420.98	1/4	3,630.40	1/4	3,840.25	1/4	4,049.55	1/4	4,258.48	1/4		1/4		1/4		1/4		1/4	
1/2	3,425.33	1/2	3,634.77	1/2	3,844.62	1/2	4,053.90	1/2	4,262.84	1/2		1/2		1/2		1/2		1/2	
3/4	3,429.69	3/4	3,639.14	3/4	3,849.00	3/4	4,058.25	3/4	4,267.19	3/4		3/4		3/4		3/4		3/4	
3	3,434.04	3	3,643.52	3	3,853.37	3	4,062.61	3	4,271.54	3		3		3		3		3	
1/4	3,438.40	1/4	3,647.89	1/4	3,857.74	1/4	4,066.96	1/4	4,275.87	1/4		1/4		1/4		1/4		1/4	
1/2	3,442.76	1/2	3,652.26	1/2	3,862.11	1/2	4,071.31	1/2	4,280.19	1/2		1/2		1/2		1/2		1/2	
3/4	3,447.11	3/4	3,656.63	3/4	3,866.48	3/4	4,075.67	3/4	4,284.52	3/4		3/4		3/4		3/4		3/4	
4	3,451.47	4	3,661.00	4	3,870.86	4	4,080.02	4	4,288.84	4		4		4		4		4	
1/4	3,455.82	1/4	3,665.38	1/4	3,875.23	1/4	4,084.37	1/4	4,293.17	1/4		1/4		1/4		1/4		1/4	
1/2	3,460.18	1/2	3,669.75	1/2	3,879.60	1/2	4,088.72	1/2	4,297.49	1/2		1/2		1/2		1/2		1/2	
3/4	3,464.54	3/4	3,674.12	3/4	3,883.97	3/4	4,093.08	3/4	4,301.82	3/4		3/4		3/4		3/4		3/4	
5	3,468.89	5	3,678.49	5	3,888.34	5	4,097.43	5	4,306.15	5		5		5		5		5	
1/4	3,473.25	1/4	3,682.86	1/4	3,892.71	1/4	4,101.78	1/4	4,310.47	1/4		1/4		1/4		1/4		1/4	
1/2	3,477.61	1/2	3,687.24	1/2	3,897.09	1/2	4,106.14	1/2	4,314.79	1/2		1/2		1/2		1/2		1/2	
3/4	3,481.96	3/4	3,691.61	3/4	3,901.46	3/4	4,110.49	3/4	4,319.11	3/4		3/4		3/4		3/4		3/4	
6	3,486.32	6	3,695.98	6	3,905.83	6	4,114.84	6	4,323.43	6		6		6		6		6	
1/4	3,490.67	1/4	3,700.35	1/4	3,910.20	1/4	4,119.19	1/4	4,327.74	1/4		1/4		1/4		1/4		1/4	
1/2	3,495.03	1/2	3,704.72	1/2	3,914.57	1/2	4,123.55	1/2	4,332.06	1/2		1/2		1/2		1/2		1/2	
3/4	3,499.39	3/4	3,709.09	3/4	3,918.95	3/4	4,127.90	3/4	4,336.37	3/4		3/4		3/4		3/4		3/4	
7	3,503.74	7	3,713.47	7	3,923.32	7	4,132.25	7	4,340.68	7		7		7		7		7	
1/4	3,508.10	1/4	3,717.84	1/4	3,927.67	1/4	4,136.61	1/4	4,344.93	1/4		1/4		1/4		1/4		1/4	
1/2	3,512.45	1/2	3,722.21	1/2	3,932.02	1/2	4,140.96	1/2	4,349.19	1/2		1/2		1/2		1/2		1/2	
3/4	3,516.81	3/4	3,726.58	3/4	3,936.38	3/4	4,145.31	3/4	4,353.45	3/4		3/4		3/4		3/4		3/4	
8	3,521.17	8	3,730.95	8	3,940.73	8	4,149.66	8	4,357.70	8		8		8		8		8	
1/4	3,525.52	1/4	3,735.33	1/4	3,945.08	1/4	4,154.02	1/4	4,361.14	1/4		1/4		1/4		1/4		1/4	
1/2	3,529.88	1/2	3,739.70	1/2	3,949.43	1/2	4,158.37	1/2	4,364.57	1/2		1/2		1/2		1/2		1/2	
3/4	3,534.23	3/4	3,744.07	3/4	3,953.79	3/4	4,162.72	3/4	4,368.00	3/4		3/4		3/4		3/4		3/4	
9	3,538.59	9	3,748.44	9	3,958.14	9	4,167.07	9	4,371.44	9		9		9		9		9	
1/4	3,542.96	1/4	3,752.81	1/4	3,962.49	1/4	4,171.43	1/4	4,373.68	1/4		1/4		1/4		1/4		1/4	
1/2	3,547.33	1/2	3,757.19	1/2	3,966.85	1/2	4,175.78	1/2	4,375.93	1/2		1/2		1/2		1/2		1/2	
3/4	3,551.71	3/4	3,761.56	3/4	3,971.20	3/4	4,180.13	3/4	4,378.17	3/4		3/4		3/4		3/4		3/4	
10	3,556.08	10	3,765.93	10	3,975.55	10	4,184.49	10	4,380.42	10		10		10		10		10	
1/4	3,560.45	1/4	3,770.30	1/4	3,979.90	1/4	4,188.84	1/4	4,382.12	1/4		1/4		1/4		1/4		1/4	
1/2	3,564.82	1/2	3,774.67	1/2	3,984.26	1/2	4,193.19	1/2	4,383.83	1/2		1/2		1/2		1/2		1/2	
3/4	3,569.19	3/4	3,779.05	3/4	3,988.61	3/4	4,197.54	3/4	4,385.54	3/4		3/4		3/4		3/4		3/4	
11	3,573.57	11	3,783.42	11	3,992.96	11	4,201.90	11	4,387.25	11		11		11		11		11	
1/4	3,577.94	1/4	3,787.79	1/4	3,997.32	1/4	4,206.25	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,582.31	1/2	3,792.16	1/2	4,001.67	1/2	4,210.60	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,586.68	3/4	3,796.53	3/4	4,006.02	3/4	4,214.96	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/15/2020 CL
CALCULATED: 07/16/2020 CL
PRINTED: 07/16/2020 JS

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2020



BARGE "HSM 3310"

formerly the
BARGE "FMT 3310"

3 STBD
INNAGE TABLE

HERMETIC
GAUGE HEIGHT 16'-05"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	14.59	0	341.55	0	682.94	0	1,023.96	0	1,365.22	0	1,706.61	0	2,048.00	0	2,389.39	0	2,730.52	0	3,071.04
1/4	19.03	1/4	348.66	1/4	690.05	1/4	1,031.06	1/4	1,372.33	1/4	1,713.72	1/4	2,055.11	1/4	2,396.50	1/4	2,737.61	1/4	3,078.13
1/2	23.48	1/2	355.78	1/2	697.16	1/2	1,038.16	1/2	1,379.44	1/2	1,720.83	1/2	2,062.22	1/2	2,403.61	1/2	2,744.71	1/2	3,085.23
3/4	27.92	3/4	362.89	3/4	704.27	3/4	1,045.26	3/4	1,386.55	3/4	1,727.94	3/4	2,069.33	3/4	2,410.72	3/4	2,751.80	3/4	3,092.32
1	32.37	1	370.00	1	711.39	1	1,052.35	1	1,393.67	1	1,735.06	1	2,076.45	1	2,417.84	1	2,758.90	1	3,099.42
1/4	38.59	1/4	377.11	1/4	718.50	1/4	1,059.45	1/4	1,400.78	1/4	1,742.17	1/4	2,083.56	1/4	2,424.95	1/4	2,765.99	1/4	3,106.51
1/2	44.81	1/2	384.22	1/2	725.61	1/2	1,066.55	1/2	1,407.89	1/2	1,749.28	1/2	2,090.67	1/2	2,432.06	1/2	2,773.08	1/2	3,113.61
3/4	51.03	3/4	391.34	3/4	732.72	3/4	1,073.65	3/4	1,415.00	3/4	1,756.39	3/4	2,097.78	3/4	2,439.17	3/4	2,780.18	3/4	3,120.70
2	57.26	2	398.45	2	739.83	2	1,080.75	2	1,422.11	2	1,763.51	2	2,104.90	2	2,446.29	2	2,787.27	2	3,127.79
1/4	64.33	1/4	405.56	1/4	746.95	1/4	1,087.85	1/4	1,429.23	1/4	1,770.62	1/4	2,112.01	1/4	2,453.40	1/4	2,794.37	1/4	3,134.87
1/2	71.41	1/2	412.67	1/2	754.06	1/2	1,094.96	1/2	1,436.34	1/2	1,777.73	1/2	2,119.12	1/2	2,460.51	1/2	2,801.46	1/2	3,141.95
3/4	78.48	3/4	419.79	3/4	761.17	3/4	1,102.07	3/4	1,443.45	3/4	1,784.84	3/4	2,126.23	3/4	2,467.62	3/4	2,808.55	3/4	3,149.02
3	85.56	3	426.90	3	768.28	3	1,109.17	3	1,450.56	3	1,791.95	3	2,133.34	3	2,474.74	3	2,815.65	3	3,156.10
1/4	92.66	1/4	434.01	1/4	775.40	1/4	1,116.29	1/4	1,457.68	1/4	1,799.07	1/4	2,140.46	1/4	2,481.85	1/4	2,822.74	1/4	3,163.18
1/2	99.76	1/2	441.12	1/2	782.51	1/2	1,123.40	1/2	1,464.79	1/2	1,806.18	1/2	2,147.57	1/2	2,488.96	1/2	2,829.84	1/2	3,170.26
3/4	106.87	3/4	448.23	3/4	789.62	3/4	1,130.51	3/4	1,471.90	3/4	1,813.29	3/4	2,154.68	3/4	2,496.07	3/4	2,836.93	3/4	3,177.33
4	113.97	4	455.35	4	796.73	4	1,137.62	4	1,479.01	4	1,820.40	4	2,161.79	4	2,503.18	4	2,844.03	4	3,184.41
1/4	121.08	1/4	462.46	1/4	803.84	1/4	1,144.74	1/4	1,486.13	1/4	1,827.52	1/4	2,168.91	1/4	2,510.30	1/4	2,851.12	1/4	3,191.49
1/2	128.19	1/2	469.57	1/2	810.96	1/2	1,151.85	1/2	1,493.24	1/2	1,834.63	1/2	2,176.02	1/2	2,517.41	1/2	2,858.21	1/2	3,198.56
3/4	135.30	3/4	476.68	3/4	818.07	3/4	1,158.96	3/4	1,500.35	3/4	1,841.74	3/4	2,183.13	3/4	2,524.53	3/4	2,865.31	3/4	3,205.64
5	142.41	5	483.80	5	825.18	5	1,166.07	5	1,507.46	5	1,848.85	5	2,190.24	5	2,531.64	5	2,872.40	5	3,212.72
1/4	149.52	1/4	490.91	1/4	832.29	1/4	1,173.18	1/4	1,514.57	1/4	1,855.97	1/4	2,197.36	1/4	2,538.76	1/4	2,879.50	1/4	3,219.79
1/2	156.63	1/2	498.02	1/2	839.39	1/2	1,180.30	1/2	1,521.69	1/2	1,863.08	1/2	2,204.47	1/2	2,545.87	1/2	2,886.59	1/2	3,226.87
3/4	163.75	3/4	505.13	3/4	846.50	3/4	1,187.41	3/4	1,528.80	3/4	1,870.19	3/4	2,211.58	3/4	2,552.98	3/4	2,893.69	3/4	3,233.95
6	170.86	6	512.24	6	853.60	6	1,194.52	6	1,535.91	6	1,877.30	6	2,218.69	6	2,560.10	6	2,900.78	6	3,241.02
1/4	177.97	1/4	519.36	1/4	860.70	1/4	1,201.63	1/4	1,543.02	1/4	1,884.41	1/4	2,225.80	1/4	2,567.21	1/4	2,907.87	1/4	3,248.10
1/2	185.08	1/2	526.47	1/2	867.80	1/2	1,208.75	1/2	1,550.14	1/2	1,891.53	1/2	2,232.92	1/2	2,574.33	1/2	2,914.97	1/2	3,255.18
3/4	192.19	3/4	533.58	3/4	874.90	3/4	1,215.86	3/4	1,557.25	3/4	1,898.64	3/4	2,240.03	3/4	2,581.44	3/4	2,922.06	3/4	3,262.25
7	199.31	7	540.69	7	881.99	7	1,222.97	7	1,564.36	7	1,905.75	7	2,247.14	7	2,588.55	7	2,929.16	7	3,269.33
1/4	206.42	1/4	547.80	1/4	889.09	1/4	1,230.08	1/4	1,571.47	1/4	1,912.86	1/4	2,254.25	1/4	2,595.67	1/4	2,936.25	1/4	3,276.41
1/2	213.53	1/2	554.92	1/2	896.19	1/2	1,237.19	1/2	1,578.59	1/2	1,919.98	1/2	2,261.37	1/2	2,602.78	1/2	2,943.34	1/2	3,283.49
3/4	220.64	3/4	562.03	3/4	903.29	3/4	1,244.31	3/4	1,585.70	3/4	1,927.09	3/4	2,268.48	3/4	2,609.90	3/4	2,950.44	3/4	3,290.56
8	227.76	8	569.14	8	910.39	8	1,251.42	8	1,592.81	8	1,934.20	8	2,275.59	8	2,617.01	8	2,957.53	8	3,297.64
1/4	234.87	1/4	576.25	1/4	917.49	1/4	1,258.53	1/4	1,599.92	1/4	1,941.31	1/4	2,282.70	1/4	2,624.11	1/4	2,964.63	1/4	3,304.72
1/2	241.98	1/2	583.37	1/2	924.58	1/2	1,265.64	1/2	1,607.03	1/2	1,948.42	1/2	2,289.82	1/2	2,631.20	1/2	2,971.72	1/2	3,311.79
3/4	249.09	3/4	590.48	3/4	931.68	3/4	1,272.76	3/4	1,614.15	3/4	1,955.54	3/4	2,296.93	3/4	2,638.29	3/4	2,978.82	3/4	3,318.87
9	256.20	9	597.59	9	938.78	9	1,279.87	9	1,621.26	9	1,962.65	9	2,304.04	9	2,645.39	9	2,985.91	9	3,325.95
1/4	263.32	1/4	604.70	1/4	945.88	1/4	1,286.98	1/4	1,628.37	1/4	1,969.76	1/4	2,311.15	1/4	2,652.48	1/4	2,993.00	1/4	3,333.02
1/2	270.43	1/2	611.81	1/2	952.98	1/2	1,294.09	1/2	1,635.48	1/2	1,976.87	1/2	2,318.26	1/2	2,659.58	1/2	3,000.10	1/2	3,340.10
3/4	277.54	3/4	618.93	3/4	960.08	3/4	1,301.21	3/4	1,642.60	3/4	1,983.99	3/4	2,325.38	3/4	2,666.67	3/4	3,007.19	3/4	3,347.18
10	284.65	10	626.04	10	967.17	10	1,308.32	10	1,649.71	10	1,991.10	10	2,332.49	10	2,673.77	10	3,014.29	10	3,354.25
1/4	291.77	1/4	633.15	1/4	974.27	1/4	1,315.43	1/4	1,656.82	1/4	1,998.21	1/4	2,339.60	1/4	2,680.86	1/4	3,021.38	1/4	3,358.58
1/2	298.88	1/2	640.26	1/2	981.37	1/2	1,322.54	1/2	1,663.93	1/2	2,005.32	1/2	2,346.71	1/2	2,687.95	1/2	3,028.48	1/2	3,362.91
3/4	305.99	3/4	647.38	3/4	988.47	3/4	1,329.65	3/4	1,671.05	3/4	2,012.44	3/4	2,353.83	3/4	2,695.05	3/4	3,035.57	3/4	3,367.23
11	313.10	11	654.49	11	995.57	11	1,336.77	11	1,678.16	11	2,019.55	11	2,360.94	11	2,702.14	11	3,042.66	11	3,371.56
1/4	320.21	1/4	661.60	1/4	1,002.67	1/4	1,343.88	1/4	1,685.27	1/4	2,026.66	1/4	2,368.05	1/4	2,709.24	1/4	3,049.76	1/4	3,375.89
1/2	327.33	1/2	668.71	1/2	1,009.76	1/2	1,350.99	1/2	1,692.38	1/2	2,033.77	1/2	2,375.16	1/2	2,716.33	1/2	3,056.85	1/2	3,380.21
3/4	334.44	3/4	675.82	3/4	1,016.86	3/4	1,358.10	3/4	1,699.49	3/4	2,040.88	3/4	2,382.28	3/4	2,723.42	3/4	3,063.95	3/4	3,384.54

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 11'-06" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "HSM 3310"

formerly the
BARGE "FMT 3310"

3 STBD
INNAGE TABLE
HERMETIC
GAUGE HEIGHT 16'-05"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,388.87	0	3,598.24	0	3,807.61	0	4,016.60	0	4,225.07	0		0		0		0		0	
1/4	3,393.23	1/4	3,602.60	1/4	3,811.97	1/4	4,020.95	1/4	4,229.41	1/4		1/4		1/4		1/4		1/4	
1/2	3,397.59	1/2	3,606.96	1/2	3,816.33	1/2	4,025.29	1/2	4,233.75	1/2		1/2		1/2		1/2		1/2	
3/4	3,401.95	3/4	3,611.32	3/4	3,820.69	3/4	4,029.63	3/4	4,238.10	3/4		3/4		3/4		3/4		3/4	
1	3,406.31	1	3,615.69	1	3,825.06	1	4,033.97	1	4,242.44	1		1		1		1		1	
1/4	3,410.68	1/4	3,620.05	1/4	3,829.42	1/4	4,038.32	1/4	4,246.78	1/4		1/4		1/4		1/4		1/4	
1/2	3,415.04	1/2	3,624.41	1/2	3,833.78	1/2	4,042.66	1/2	4,251.12	1/2		1/2		1/2		1/2		1/2	
3/4	3,419.40	3/4	3,628.77	3/4	3,838.14	3/4	4,047.00	3/4	4,255.47	3/4		3/4		3/4		3/4		3/4	
2	3,423.76	2	3,633.13	2	3,842.50	2	4,051.35	2	4,259.81	2		2		2		2		2	
1/4	3,428.12	1/4	3,637.49	1/4	3,846.87	1/4	4,055.69	1/4	4,264.15	1/4		1/4		1/4		1/4		1/4	
1/2	3,432.49	1/2	3,641.86	1/2	3,851.23	1/2	4,060.03	1/2	4,268.50	1/2		1/2		1/2		1/2		1/2	
3/4	3,436.85	3/4	3,646.22	3/4	3,855.59	3/4	4,064.38	3/4	4,272.84	3/4		3/4		3/4		3/4		3/4	
3	3,441.21	3	3,650.58	3	3,859.95	3	4,068.72	3	4,277.18	3		3		3		3		3	
1/4	3,445.57	1/4	3,654.94	1/4	3,864.31	1/4	4,073.06	1/4	4,281.50	1/4		1/4		1/4		1/4		1/4	
1/2	3,449.93	1/2	3,659.30	1/2	3,868.68	1/2	4,077.40	1/2	4,285.81	1/2		1/2		1/2		1/2		1/2	
3/4	3,454.30	3/4	3,663.67	3/4	3,873.04	3/4	4,081.75	3/4	4,290.13	3/4		3/4		3/4		3/4		3/4	
4	3,458.66	4	3,668.03	4	3,877.40	4	4,086.09	4	4,294.44	4		4		4		4		4	
1/4	3,463.02	1/4	3,672.39	1/4	3,881.76	1/4	4,090.43	1/4	4,298.76	1/4		1/4		1/4		1/4		1/4	
1/2	3,467.38	1/2	3,676.75	1/2	3,886.12	1/2	4,094.78	1/2	4,303.07	1/2		1/2		1/2		1/2		1/2	
3/4	3,471.74	3/4	3,681.11	3/4	3,890.49	3/4	4,099.12	3/4	4,307.39	3/4		3/4		3/4		3/4		3/4	
5	3,476.10	5	3,685.48	5	3,894.85	5	4,103.46	5	4,311.70	5		5		5		5		5	
1/4	3,480.47	1/4	3,689.84	1/4	3,899.21	1/4	4,107.81	1/4	4,316.01	1/4		1/4		1/4		1/4		1/4	
1/2	3,484.83	1/2	3,694.20	1/2	3,903.57	1/2	4,112.15	1/2	4,320.32	1/2		1/2		1/2		1/2		1/2	
3/4	3,489.19	3/4	3,698.56	3/4	3,907.93	3/4	4,116.49	3/4	4,324.64	3/4		3/4		3/4		3/4		3/4	
6	3,493.55	6	3,702.92	6	3,912.29	6	4,120.83	6	4,328.95	6		6		6		6		6	
1/4	3,497.91	1/4	3,707.29	1/4	3,916.66	1/4	4,125.18	1/4	4,333.25	1/4		1/4		1/4		1/4		1/4	
1/2	3,502.28	1/2	3,711.65	1/2	3,921.02	1/2	4,129.52	1/2	4,337.55	1/2		1/2		1/2		1/2		1/2	
3/4	3,506.64	3/4	3,716.01	3/4	3,925.38	3/4	4,133.86	3/4	4,341.85	3/4		3/4		3/4		3/4		3/4	
7	3,511.00	7	3,720.37	7	3,929.74	7	4,138.21	7	4,346.15	7		7		7		7		7	
1/4	3,515.36	1/4	3,724.73	1/4	3,934.09	1/4	4,142.55	1/4	4,350.40	1/4		1/4		1/4		1/4		1/4	
1/2	3,519.72	1/2	3,729.09	1/2	3,938.43	1/2	4,146.89	1/2	4,354.65	1/2		1/2		1/2		1/2		1/2	
3/4	3,524.09	3/4	3,733.46	3/4	3,942.77	3/4	4,151.24	3/4	4,358.89	3/4		3/4		3/4		3/4		3/4	
8	3,528.45	8	3,737.82	8	3,947.11	8	4,155.58	8	4,363.14	8		8		8		8		8	
1/4	3,532.81	1/4	3,742.18	1/4	3,951.46	1/4	4,159.92	1/4	4,366.57	1/4		1/4		1/4		1/4		1/4	
1/2	3,537.17	1/2	3,746.54	1/2	3,955.80	1/2	4,164.26	1/2	4,369.99	1/2		1/2		1/2		1/2		1/2	
3/4	3,541.53	3/4	3,750.90	3/4	3,960.14	3/4	4,168.61	3/4	4,373.42	3/4		3/4		3/4		3/4		3/4	
9	3,545.90	9	3,755.27	9	3,964.49	9	4,172.95	9	4,376.85	9		9		9		9		9	
1/4	3,550.26	1/4	3,759.63	1/4	3,968.83	1/4	4,177.29	1/4	4,379.09	1/4		1/4		1/4		1/4		1/4	
1/2	3,554.62	1/2	3,763.99	1/2	3,973.17	1/2	4,181.64	1/2	4,381.33	1/2		1/2		1/2		1/2		1/2	
3/4	3,558.98	3/4	3,768.35	3/4	3,977.52	3/4	4,185.98	3/4	4,383.57	3/4		3/4		3/4		3/4		3/4	
10	3,563.34	10	3,772.71	10	3,981.86	10	4,190.32	10	4,385.81	10		10		10		10		10	
1/4	3,567.70	1/4	3,777.08	1/4	3,986.20	1/4	4,194.67	1/4	4,387.52	1/4		1/4		1/4		1/4		1/4	
1/2	3,572.07	1/2	3,781.44	1/2	3,990.54	1/2	4,199.01	1/2	4,389.22	1/2		1/2		1/2		1/2		1/2	
3/4	3,576.43	3/4	3,785.80	3/4	3,994.89	3/4	4,203.35	3/4	4,390.92	3/4		3/4		3/4		3/4		3/4	
11	3,580.79	11	3,790.16	11	3,999.23	11	4,207.69	11	4,392.63	11		11		11		11		11	
1/4	3,585.15	1/4	3,794.52	1/4	4,003.57	1/4	4,212.04	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,589.51	1/2	3,798.89	1/2	4,007.92	1/2	4,216.38	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,593.88	3/4	3,803.25	3/4	4,012.26	3/4	4,220.72	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/15/2020 CL
CALCULATED: 07/16/2020 CL
PRINTED: 07/16/2020 JS

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

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2020



BARGE "HSM 3310"

formerly the

BARGE "FMT 3310"

ULLAGE (HERMETIC)

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 2'-00"
 AFT DRAFT = 6'-00"
 DIFF. = 4'-00" (DOWN BY STERN)

THE CORRECTION FOR 4'-00" TRIM DOWN BY STERN FOR 1 PORT IS - 00-1/8"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 3'-11 7/8"

LENGTH BETWEEN DRAFT MARKS: 237'-03"

July 15, 2020

PRECISION MEASUREMENT
 & ANALYSIS, INC.

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 Pearland, Texas 77588

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BARGE "HSM 3310"
formerly the
BARGE "FMT 3310"

1 PORT
ULLAGE TABLE

HERMETIC
GAUGE HEIGHT 16'-05 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	4,888.02	0	4,546.84	0	4,205.03	0	3,861.89	0	3,518.77	0	3,175.72	0	2,832.63	0	2,489.48
1/4		1/4		1/4	4,880.95	1/4	4,539.73	1/4	4,197.88	1/4	3,854.74	1/4	3,511.63	1/4	3,168.57	1/4	2,825.48	1/4	2,482.33
1/2		1/2		1/2	4,873.88	1/2	4,532.61	1/2	4,190.73	1/2	3,847.59	1/2	3,504.48	1/2	3,161.42	1/2	2,818.33	1/2	2,475.18
3/4		3/4		3/4	4,866.80	3/4	4,525.49	3/4	4,183.59	3/4	3,840.44	3/4	3,497.33	3/4	3,154.28	3/4	2,811.18	3/4	2,468.03
1		1		1	4,859.73	1	4,518.38	1	4,176.44	1	3,833.29	1	3,490.19	1	3,147.13	1	2,804.03	1	2,460.89
1/4		1/4		1/4	4,852.66	1/4	4,511.26	1/4	4,169.29	1/4	3,826.15	1/4	3,483.04	1/4	3,139.98	1/4	2,796.89	1/4	2,453.74
1/2		1/2		1/2	4,845.59	1/2	4,504.14	1/2	4,162.14	1/2	3,819.00	1/2	3,475.89	1/2	3,132.84	1/2	2,789.74	1/2	2,446.59
3/4		3/4		3/4	4,838.52	3/4	4,497.03	3/4	4,154.99	3/4	3,811.85	3/4	3,468.75	3/4	3,125.69	3/4	2,782.59	3/4	2,439.44
2		2		2	4,831.45	2	4,489.91	2	4,147.84	2	3,804.70	2	3,461.60	2	3,118.54	2	2,775.44	2	2,432.29
1/4		1/4		1/4	4,824.38	1/4	4,482.80	1/4	4,140.69	1/4	3,797.55	1/4	3,454.45	1/4	3,111.40	1/4	2,768.29	1/4	2,425.14
1/2		1/2		1/2	4,817.26	1/2	4,475.68	1/2	4,133.54	1/2	3,790.40	1/2	3,447.30	1/2	3,104.25	1/2	2,761.14	1/2	2,417.99
3/4		3/4		3/4	4,810.15	3/4	4,468.56	3/4	4,126.40	3/4	3,783.25	3/4	3,440.16	3/4	3,097.10	3/4	2,753.99	3/4	2,410.84
3		3		3	4,803.03	3	4,461.45	3	4,119.25	3	3,776.10	3	3,433.01	3	3,089.95	3	2,746.85	3	2,403.69
1/4		1/4		1/4	4,795.91	1/4	4,454.33	1/4	4,112.10	1/4	3,768.96	1/4	3,425.86	1/4	3,082.81	1/4	2,739.70	1/4	2,396.54
1/2		1/2		1/2	4,788.80	1/2	4,447.21	1/2	4,104.95	1/2	3,761.81	1/2	3,418.72	1/2	3,075.66	1/2	2,732.55	1/2	2,389.39
3/4		3/4		3/4	4,781.68	3/4	4,440.10	3/4	4,097.80	3/4	3,754.66	3/4	3,411.57	3/4	3,068.51	3/4	2,725.40	3/4	2,382.24
4		4		4	4,774.56	4	4,432.98	4	4,090.65	4	3,747.51	4	3,404.42	4	3,061.37	4	2,718.25	4	2,375.09
1/4		1/4		1/4	4,767.45	1/4	4,425.86	1/4	4,083.50	1/4	3,740.36	1/4	3,397.28	1/4	3,054.22	1/4	2,711.10	1/4	2,367.94
1/2		1/2		1/2	4,760.33	1/2	4,418.75	1/2	4,076.35	1/2	3,733.21	1/2	3,390.13	1/2	3,047.07	1/2	2,703.95	1/2	2,360.79
3/4		3/4		3/4	4,753.21	3/4	4,411.63	3/4	4,069.20	3/4	3,726.06	3/4	3,382.98	3/4	3,039.93	3/4	2,696.81	3/4	2,353.64
5		5		5	4,746.10	5	4,404.52	5	4,062.06	5	3,718.91	5	3,375.83	5	3,032.78	5	2,689.66	5	2,346.49
1/4		1/4		1/4	4,738.98	1/4	4,397.40	1/4	4,054.91	1/4	3,711.76	1/4	3,368.69	1/4	3,025.63	1/4	2,682.51	1/4	2,339.35
1/2		1/2		1/2	4,731.87	1/2	4,390.28	1/2	4,047.76	1/2	3,704.62	1/2	3,361.54	1/2	3,018.48	1/2	2,675.36	1/2	2,332.20
3/4		3/4		3/4	4,724.75	3/4	4,383.17	3/4	4,040.61	3/4	3,697.47	3/4	3,354.39	3/4	3,011.34	3/4	2,668.21	3/4	2,325.05
6		6		6	4,717.63	6	4,376.05	6	4,033.46	6	3,690.32	6	3,347.25	6	3,004.19	6	2,661.06	6	2,317.90
1/4		1/4	5,025.30	1/4	4,710.52	1/4	4,368.93	1/4	4,026.31	1/4	3,683.17	1/4	3,340.10	1/4	2,997.04	1/4	2,653.92	1/4	2,310.75
1/2		1/2	5,021.51	1/2	4,703.40	1/2	4,361.82	1/2	4,019.16	1/2	3,676.02	1/2	3,332.95	1/2	2,989.89	1/2	2,646.77	1/2	2,303.60
3/4		3/4	5,017.71	3/4	4,696.28	3/4	4,354.70	3/4	4,012.01	3/4	3,668.87	3/4	3,325.81	3/4	2,982.75	3/4	2,639.62	3/4	2,296.45
7		7	5,013.92	7	4,689.17	7	4,347.59	7	4,004.87	7	3,661.72	7	3,318.66	7	2,975.60	7	2,632.47	7	2,289.30
1/4		1/4	5,010.12	1/4	4,682.05	1/4	4,340.47	1/4	3,997.72	1/4	3,654.57	1/4	3,311.51	1/4	2,968.45	1/4	2,625.32	1/4	2,282.15
1/2		1/2	5,005.14	1/2	4,674.94	1/2	4,333.35	1/2	3,990.57	1/2	3,647.43	1/2	3,304.36	1/2	2,961.30	1/2	2,618.17	1/2	2,275.00
3/4		3/4	5,000.15	3/4	4,667.82	3/4	4,326.24	3/4	3,983.42	3/4	3,640.28	3/4	3,297.22	3/4	2,954.15	3/4	2,611.02	3/4	2,267.85
8		8	4,995.16	8	4,660.70	8	4,319.12	8	3,976.27	8	3,633.13	8	3,290.07	8	2,947.00	8	2,603.87	8	2,260.70
1/4		1/4	4,990.18	1/4	4,653.59	1/4	4,312.00	1/4	3,969.12	1/4	3,625.98	1/4	3,282.92	1/4	2,939.86	1/4	2,596.72	1/4	2,253.55
1/2		1/2	4,984.00	1/2	4,646.47	1/2	4,304.89	1/2	3,961.97	1/2	3,618.83	1/2	3,275.78	1/2	2,932.71	1/2	2,589.57	1/2	2,246.40
3/4		3/4	4,977.82	3/4	4,639.35	3/4	4,297.77	3/4	3,954.82	3/4	3,611.69	3/4	3,268.63	3/4	2,925.56	3/4	2,582.42	3/4	2,239.25
9		9	4,971.65	9	4,632.24	9	4,290.66	9	3,947.68	9	3,604.54	9	3,261.48	9	2,918.41	9	2,575.28	9	2,232.10
1/4		1/4	4,965.47	1/4	4,625.12	1/4	4,283.54	1/4	3,940.53	1/4	3,597.39	1/4	3,254.34	1/4	2,911.26	1/4	2,568.13	1/4	2,224.95
1/2		1/2	4,958.47	1/2	4,618.00	1/2	4,276.42	1/2	3,933.38	1/2	3,590.24	1/2	3,247.19	1/2	2,904.11	1/2	2,560.98	1/2	2,217.81
3/4		3/4	4,951.46	3/4	4,610.89	3/4	4,269.31	3/4	3,926.23	3/4	3,583.10	3/4	3,240.04	3/4	2,896.96	3/4	2,553.83	3/4	2,210.66
10		10	4,944.46	10	4,603.77	10	4,262.19	10	3,919.08	10	3,575.95	10	3,232.89	10	2,889.82	10	2,546.68	10	2,203.51
1/4		1/4	4,937.46	1/4	4,596.66	1/4	4,255.07	1/4	3,911.93	1/4	3,568.80	1/4	3,225.75	1/4	2,882.67	1/4	2,539.53	1/4	2,196.36
1/2		1/2	4,930.40	1/2	4,589.54	1/2	4,247.92	1/2	3,904.78	1/2	3,561.66	1/2	3,218.60	1/2	2,875.52	1/2	2,532.38	1/2	2,189.21
3/4		3/4	4,923.34	3/4	4,582.42	3/4	4,240.78	3/4	3,897.63	3/4	3,554.51	3/4	3,211.45	3/4	2,868.37	3/4	2,525.23	3/4	2,182.06
11		11	4,916.29	11	4,575.31	11	4,233.63	11	3,890.48	11	3,547.36	11	3,204.31	11	2,861.22	11	2,518.08	11	2,174.91
1/4		1/4	4,909.23	1/4	4,568.19	1/4	4,226.48	1/4	3,883.34	1/4	3,540.22	1/4	3,197.16	1/4	2,854.07	1/4	2,510.93	1/4	2,167.76
1/2		1/2	4,902.16	1/2	4,561.07	1/2	4,219.33	1/2	3,876.19	1/2	3,533.07	1/2	3,190.01	1/2	2,846.92	1/2	2,503.78	1/2	2,160.61
3/4		3/4	4,895.09	3/4	4,553.96	3/4	4,212.18	3/4	3,869.04	3/4	3,525.92	3/4	3,182.87	3/4	2,839.78	3/4	2,496.63	3/4	2,153.46

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 11'-06" OFF CENTERLINE AND 43'-03" 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 "HSM 3310"

formerly the
BARGE "FMT 3310"

1 PORT
ULLAGE TABLE
HERMETIC
GAUGE HEIGHT 16'-05 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,146.31	0	1,803.14	0	1,459.97	0	1,116.80	0	776.07	0	433.68	0	121.60	0		0		0	
1/4	2,139.16	1/4	1,795.99	1/4	1,452.82	1/4	1,109.65	1/4	768.97	1/4	426.66	1/4	115.58	1/4	1/4	1/4		1/4	
1/2	2,132.01	1/2	1,788.84	1/2	1,445.67	1/2	1,102.50	1/2	761.86	1/2	419.72	1/2	109.64	1/2	1/2	1/2		1/2	
3/4	2,124.86	3/4	1,781.69	3/4	1,438.52	3/4	1,095.35	3/4	754.74	3/4	412.78	3/4	103.71	3/4	3/4	3/4		3/4	
1	2,117.71	1	1,774.54	1	1,431.37	1	1,088.20	1	747.63	1	405.84	1	97.77	1	1	1		1	
1/4	2,110.56	1/4	1,767.39	1/4	1,424.22	1/4	1,081.05	1/4	740.51	1/4	398.90	1/4	91.83	1/4	1/4	1/4		1/4	
1/2	2,103.42	1/2	1,760.24	1/2	1,417.07	1/2	1,073.94	1/2	733.37	1/2	392.05	1/2	85.99	1/2	1/2	1/2		1/2	
3/4	2,096.27	3/4	1,753.09	3/4	1,409.92	3/4	1,066.82	3/4	726.22	3/4	385.19	3/4	80.15	3/4	3/4	3/4		3/4	
2	2,089.12	2	1,745.95	2	1,402.77	2	1,059.71	2	719.07	2	378.33	2	74.30	2	2	2		2	
1/4	2,081.97	1/4	1,738.80	1/4	1,395.62	1/4	1,052.59	1/4	711.92	1/4	371.47	1/4	68.46	1/4	1/4	1/4		1/4	
1/2	2,074.82	1/2	1,731.65	1/2	1,388.48	1/2	1,045.49	1/2	704.77	1/2	364.70	1/2	62.72	1/2	1/2	1/2		1/2	
3/4	2,067.67	3/4	1,724.50	3/4	1,381.33	3/4	1,038.40	3/4	697.62	3/4	357.93	3/4	56.99	3/4	3/4	3/4		3/4	
3	2,060.52	3	1,717.35	3	1,374.18	3	1,031.30	3	690.47	3	351.15	3	51.26	3	3	3		3	
1/4	2,053.37	1/4	1,710.20	1/4	1,367.03	1/4	1,024.20	1/4	683.32	1/4	344.38	1/4	45.52	1/4	1/4	1/4		1/4	
1/2	2,046.22	1/2	1,703.05	1/2	1,359.88	1/2	1,017.11	1/2	676.17	1/2	337.69	1/2	40.73	1/2	1/2	1/2		1/2	
3/4	2,039.07	3/4	1,695.90	3/4	1,352.73	3/4	1,010.02	3/4	669.02	3/4	331.00	3/4	35.94	3/4	3/4	3/4		3/4	
4	2,031.92	4	1,688.75	4	1,345.58	4	1,002.94	4	661.87	4	324.31	4	31.14	4	4	4		4	
1/4	2,024.77	1/4	1,681.60	1/4	1,338.43	1/4	995.85	1/4	654.73	1/4	317.62	1/4	26.35	1/4	1/4	1/4		1/4	
1/2	2,017.62	1/2	1,674.45	1/2	1,331.28	1/2	988.76	1/2	647.58	1/2	311.02	1/2	23.43	1/2	1/2	1/2		1/2	
3/4	2,010.47	3/4	1,667.30	3/4	1,324.13	3/4	981.67	3/4	640.43	3/4	304.41	3/4	20.51	3/4	3/4	3/4		3/4	
5	2,003.32	5	1,660.15	5	1,316.98	5	974.58	5	633.28	5	297.80	5	17.58	5	5	5		5	
1/4	1,996.17	1/4	1,653.00	1/4	1,309.83	1/4	967.49	1/4	626.13	1/4	291.20	1/4	14.66	1/4	1/4	1/4		1/4	
1/2	1,989.02	1/2	1,645.85	1/2	1,302.68	1/2	960.40	1/2	618.98	1/2	284.67	1/2		1/2	1/2	1/2		1/2	
3/4	1,981.88	3/4	1,638.70	3/4	1,295.53	3/4	953.31	3/4	611.83	3/4	278.15	3/4		3/4	3/4	3/4		3/4	
6	1,974.73	6	1,631.55	6	1,288.38	6	946.22	6	604.68	6	271.63	6		6	6	6		6	
1/4	1,967.58	1/4	1,624.41	1/4	1,281.23	1/4	939.14	1/4	597.53	1/4	265.11	1/4		1/4	1/4	1/4		1/4	
1/2	1,960.43	1/2	1,617.26	1/2	1,274.08	1/2	932.05	1/2	590.38	1/2	258.67	1/2		1/2	1/2	1/2		1/2	
3/4	1,953.28	3/4	1,610.11	3/4	1,266.94	3/4	924.96	3/4	583.23	3/4	252.23	3/4		3/4	3/4	3/4		3/4	
7	1,946.13	7	1,602.96	7	1,259.79	7	917.87	7	576.09	7	245.79	7		7	7	7		7	
1/4	1,938.98	1/4	1,595.81	1/4	1,252.64	1/4	910.78	1/4	568.94	1/4	239.35	1/4		1/4	1/4	1/4		1/4	
1/2	1,931.83	1/2	1,588.66	1/2	1,245.49	1/2	903.69	1/2	561.79	1/2	232.99	1/2		1/2	1/2	1/2		1/2	
3/4	1,924.68	3/4	1,581.51	3/4	1,238.34	3/4	896.60	3/4	554.64	3/4	226.64	3/4		3/4	3/4	3/4		3/4	
8	1,917.53	8	1,574.36	8	1,231.19	8	889.51	8	547.49	8	220.28	8		8	8	8		8	
1/4	1,910.38	1/4	1,567.21	1/4	1,224.04	1/4	882.43	1/4	540.34	1/4	213.93	1/4		1/4	1/4	1/4		1/4	
1/2	1,903.23	1/2	1,560.06	1/2	1,216.89	1/2	875.34	1/2	533.19	1/2	207.66	1/2		1/2	1/2	1/2		1/2	
3/4	1,896.08	3/4	1,552.91	3/4	1,209.74	3/4	868.25	3/4	526.04	3/4	201.38	3/4		3/4	3/4	3/4		3/4	
9	1,888.93	9	1,545.76	9	1,202.59	9	861.16	9	518.89	9	195.11	9		9	9	9		9	
1/4	1,881.78	1/4	1,538.61	1/4	1,195.44	1/4	854.07	1/4	511.74	1/4	188.84	1/4		1/4	1/4	1/4		1/4	
1/2	1,874.63	1/2	1,531.46	1/2	1,188.29	1/2	846.98	1/2	504.59	1/2	182.65	1/2		1/2	1/2	1/2		1/2	
3/4	1,867.48	3/4	1,524.31	3/4	1,181.14	3/4	839.89	3/4	497.45	3/4	176.46	3/4		3/4	3/4	3/4		3/4	
10	1,860.34	10	1,517.16	10	1,173.99	10	832.80	10	490.30	10	170.27	10		10	10	10		10	
1/4	1,853.19	1/4	1,510.01	1/4	1,166.84	1/4	825.72	1/4	483.15	1/4	164.09	1/4		1/4	1/4	1/4		1/4	
1/2	1,846.04	1/2	1,502.87	1/2	1,159.69	1/2	818.63	1/2	476.04	1/2	157.98	1/2		1/2	1/2	1/2		1/2	
3/4	1,838.89	3/4	1,495.72	3/4	1,152.54	3/4	811.54	3/4	468.94	3/4	151.88	3/4		3/4	3/4	3/4		3/4	
11	1,831.74	11	1,488.57	11	1,145.40	11	804.45	11	461.84	11	145.77	11		11	11	11		11	
1/4	1,824.59	1/4	1,481.42	1/4	1,138.25	1/4	797.36	1/4	454.74	1/4	139.67	1/4		1/4	1/4	1/4		1/4	
1/2	1,817.44	1/2	1,474.27	1/2	1,131.10	1/2	790.26	1/2	447.72	1/2	133.64	1/2		1/2	1/2	1/2		1/2	
3/4	1,810.29	3/4	1,467.12	3/4	1,123.95	3/4	783.17	3/4	440.70	3/4	127.62	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/15/2020 CL
CALCULATED: 07/16/2020 CL
PRINTED: 07/16/2020 JS

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2020



BARGE "HSM 3310"

formerly the
BARGE "FMT 3310"

1 STBD
ULLAGE TABLE

HERMETIC
GAUGE HEIGHT 16'-04 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0	4,870.57	0	4,529.70	0	4,188.23	0	3,845.48	0	3,502.76	0	3,160.10	0	2,817.40	0	2,474.64
1/4		1/4		1/4	4,863.51	1/4	4,522.60	1/4	4,181.09	1/4	3,838.34	1/4	3,495.62	1/4	3,152.96	1/4	2,810.26	1/4	2,467.50
1/2		1/2		1/2	4,856.45	1/2	4,515.49	1/2	4,173.94	1/2	3,831.20	1/2	3,488.48	1/2	3,145.83	1/2	2,803.12	1/2	2,460.36
3/4		3/4		3/4	4,849.38	3/4	4,508.38	3/4	4,166.80	3/4	3,824.06	3/4	3,481.34	3/4	3,138.69	3/4	2,795.98	3/4	2,453.22
1		1		1	4,842.32	1	4,501.27	1	4,159.66	1	3,816.91	1	3,474.21	1	3,131.55	1	2,788.84	1	2,446.08
1/4		1/4		1/4	4,835.26	1/4	4,494.16	1/4	4,152.52	1/4	3,809.77	1/4	3,467.07	1/4	3,124.41	1/4	2,781.70	1/4	2,438.94
1/2		1/2		1/2	4,828.19	1/2	4,487.06	1/2	4,145.38	1/2	3,802.63	1/2	3,459.93	1/2	3,117.27	1/2	2,774.56	1/2	2,431.80
3/4		3/4		3/4	4,821.13	3/4	4,479.95	3/4	4,138.24	3/4	3,795.49	3/4	3,452.79	3/4	3,110.13	3/4	2,767.42	3/4	2,424.66
2		2		2	4,814.02	2	4,472.84	2	4,131.10	2	3,788.35	2	3,445.65	2	3,102.99	2	2,760.28	2	2,417.52
1/4		1/4		1/4	4,806.92	1/4	4,465.73	1/4	4,123.96	1/4	3,781.21	1/4	3,438.51	1/4	3,095.85	1/4	2,753.14	1/4	2,410.37
1/2		1/2		1/2	4,799.81	1/2	4,458.62	1/2	4,116.82	1/2	3,774.07	1/2	3,431.37	1/2	3,088.72	1/2	2,746.00	1/2	2,403.23
3/4		3/4		3/4	4,792.70	3/4	4,451.52	3/4	4,109.68	3/4	3,766.93	3/4	3,424.24	3/4	3,081.58	3/4	2,738.86	3/4	2,396.09
3		3		3	4,785.59	3	4,444.41	3	4,102.54	3	3,759.79	3	3,417.10	3	3,074.44	3	2,731.71	3	2,388.95
1/4		1/4		1/4	4,778.48	1/4	4,437.30	1/4	4,095.40	1/4	3,752.65	1/4	3,409.96	1/4	3,067.30	1/4	2,724.57	1/4	2,381.81
1/2		1/2		1/2	4,771.38	1/2	4,430.19	1/2	4,088.26	1/2	3,745.51	1/2	3,402.82	1/2	3,060.16	1/2	2,717.43	1/2	2,374.67
3/4		3/4		3/4	4,764.27	3/4	4,423.08	3/4	4,081.12	3/4	3,738.37	3/4	3,395.68	3/4	3,053.02	3/4	2,710.29	3/4	2,367.53
4		4		4	4,757.16	4	4,415.98	4	4,073.98	4	3,731.23	4	3,388.54	4	3,045.88	4	2,703.15	4	2,360.39
1/4		1/4		1/4	4,750.05	1/4	4,408.87	1/4	4,066.84	1/4	3,724.09	1/4	3,381.40	1/4	3,038.75	1/4	2,696.01	1/4	2,353.25
1/2		1/2		1/2	4,742.94	1/2	4,401.76	1/2	4,059.70	1/2	3,716.95	1/2	3,374.26	1/2	3,031.61	1/2	2,688.87	1/2	2,346.10
3/4		3/4		3/4	4,735.84	3/4	4,394.65	3/4	4,052.55	3/4	3,709.81	3/4	3,367.13	3/4	3,024.47	3/4	2,681.73	3/4	2,338.96
5		5		5	4,728.73	5	4,387.54	5	4,045.41	5	3,702.67	5	3,359.99	5	3,017.33	5	2,674.59	5	2,331.82
1/4		1/4		1/4	4,721.62	1/4	4,380.44	1/4	4,038.27	1/4	3,695.52	1/4	3,352.85	1/4	3,010.19	1/4	2,667.45	1/4	2,324.68
1/2		1/2		1/2	4,714.51	1/2	4,373.33	1/2	4,031.13	1/2	3,688.38	1/2	3,345.71	1/2	3,003.05	1/2	2,660.31	1/2	2,317.54
3/4		3/4	5,021.82	3/4	4,707.40	3/4	4,366.22	3/4	4,023.99	3/4	3,681.24	3/4	3,338.57	3/4	2,995.91	3/4	2,653.17	3/4	2,310.40
6		6	5,018.03	6	4,700.30	6	4,359.11	6	4,016.85	6	3,674.10	6	3,331.43	6	2,988.77	6	2,646.03	6	2,303.26
1/4		1/4	5,014.24	1/4	4,693.19	1/4	4,352.00	1/4	4,009.71	1/4	3,666.96	1/4	3,324.29	1/4	2,981.63	1/4	2,638.89	1/4	2,296.12
1/2		1/2	5,010.45	1/2	4,686.08	1/2	4,344.90	1/2	4,002.57	1/2	3,659.82	1/2	3,317.15	1/2	2,974.49	1/2	2,631.75	1/2	2,288.98
3/4		3/4	5,006.66	3/4	4,678.97	3/4	4,337.79	3/4	3,995.43	3/4	3,652.68	3/4	3,310.02	3/4	2,967.35	3/4	2,624.61	3/4	2,281.83
7		7	5,001.68	7	4,671.86	7	4,330.68	7	3,988.29	7	3,645.54	7	3,302.88	7	2,960.21	7	2,617.47	7	2,274.69
1/4		1/4	4,996.70	1/4	4,664.76	1/4	4,323.57	1/4	3,981.15	1/4	3,638.40	1/4	3,295.74	1/4	2,953.07	1/4	2,610.32	1/4	2,267.55
1/2		1/2	4,991.72	1/2	4,657.65	1/2	4,316.46	1/2	3,974.01	1/2	3,631.26	1/2	3,288.60	1/2	2,945.93	1/2	2,603.18	1/2	2,260.41
3/4		3/4	4,986.74	3/4	4,650.54	3/4	4,309.36	3/4	3,966.87	3/4	3,624.12	3/4	3,281.46	3/4	2,938.79	3/4	2,596.04	3/4	2,253.27
8		8	4,980.57	8	4,643.43	8	4,302.25	8	3,959.73	8	3,616.98	8	3,274.32	8	2,931.65	8	2,588.90	8	2,246.13
1/4		1/4	4,974.40	1/4	4,636.32	1/4	4,295.14	1/4	3,952.59	1/4	3,609.84	1/4	3,267.18	1/4	2,924.51	1/4	2,581.76	1/4	2,238.99
1/2		1/2	4,968.23	1/2	4,629.22	1/2	4,288.03	1/2	3,945.45	1/2	3,602.70	1/2	3,260.05	1/2	2,917.37	1/2	2,574.62	1/2	2,231.85
3/4		3/4	4,962.06	3/4	4,622.11	3/4	4,280.92	3/4	3,938.31	3/4	3,595.56	3/4	3,252.91	3/4	2,910.23	3/4	2,567.48	3/4	2,224.71
9		9	4,955.06	9	4,615.00	9	4,273.82	9	3,931.16	9	3,588.43	9	3,245.77	9	2,903.09	9	2,560.34	9	2,217.56
1/4		1/4	4,948.07	1/4	4,607.89	1/4	4,266.71	1/4	3,924.02	1/4	3,581.29	1/4	3,238.63	1/4	2,895.95	1/4	2,553.20	1/4	2,210.42
1/2		1/2	4,941.07	1/2	4,600.78	1/2	4,259.60	1/2	3,916.88	1/2	3,574.15	1/2	3,231.49	1/2	2,888.81	1/2	2,546.06	1/2	2,203.28
3/4		3/4	4,934.08	3/4	4,593.68	3/4	4,252.49	3/4	3,909.74	3/4	3,567.01	3/4	3,224.35	3/4	2,881.67	3/4	2,538.91	3/4	2,196.14
10		10	4,927.03	10	4,586.57	10	4,245.35	10	3,902.60	10	3,559.87	10	3,217.21	10	2,874.52	10	2,531.77	10	2,189.00
1/4		1/4	4,919.98	1/4	4,579.46	1/4	4,238.21	1/4	3,895.46	1/4	3,552.73	1/4	3,210.07	1/4	2,867.38	1/4	2,524.63	1/4	2,181.86
1/2		1/2	4,912.93	1/2	4,572.35	1/2	4,231.07	1/2	3,888.32	1/2	3,545.59	1/2	3,202.94	1/2	2,860.24	1/2	2,517.49	1/2	2,174.72
3/4		3/4	4,905.88	3/4	4,565.24	3/4	4,223.93	3/4	3,881.18	3/4	3,538.45	3/4	3,195.80	3/4	2,853.10	3/4	2,510.35	3/4	2,167.58
11		11	4,898.82	11	4,558.14	11	4,216.79	11	3,874.04	11	3,531.32	11	3,188.66	11	2,845.96	11	2,503.21	11	2,160.44
1/4		1/4	4,891.76	1/4	4,551.03	1/4	4,209.65	1/4	3,866.90	1/4	3,524.18	1/4	3,181.52	1/4	2,838.82	1/4	2,496.07	1/4	2,153.29
1/2		1/2	4,884.70	1/2	4,543.92	1/2	4,202.51	1/2	3,859.76	1/2	3,517.04	1/2	3,174.38	1/2	2,831.68	1/2	2,488.93	1/2	2,146.15
3/4		3/4	4,877.64	3/4	4,536.81	3/4	4,195.37	3/4	3,852.62	3/4	3,509.90	3/4	3,167.24	3/4	2,824.54	3/4	2,481.79	3/4	2,139.01

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 11'-06" OFF CENTERLINE AND 43'-03" 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 "HSM 3310"

formerly the
BARGE "FMT 3310"

1 STBD
ULLAGE TABLE
HERMETIC
GAUGE HEIGHT 16'-04 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,131.87	0	1,789.10	0	1,446.33	0	1,103.55	0	761.07	0	419.19	0	109.50	0		0		0	
1/4	2,124.73	1/4	1,781.96	1/4	1,439.18	1/4	1,096.41	1/4	753.93	1/4	412.26	1/4	103.57	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,117.59	1/2	1,774.82	1/2	1,432.04	1/2	1,089.27	1/2	746.79	1/2	405.32	1/2	97.64	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,110.45	3/4	1,767.68	3/4	1,424.90	3/4	1,082.13	3/4	739.65	3/4	398.39	3/4	91.71	3/4	3/4	3/4	3/4	3/4	3/4
1	2,103.31	1	1,760.53	1	1,417.76	1	1,074.99	1	732.51	1	391.54	1	85.87	1	1	1	1	1	1
1/4	2,096.17	1/4	1,753.39	1/4	1,410.62	1/4	1,067.85	1/4	725.37	1/4	384.70	1/4	80.04	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,089.02	1/2	1,746.25	1/2	1,403.48	1/2	1,060.71	1/2	718.23	1/2	377.85	1/2	74.20	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,081.88	3/4	1,739.11	3/4	1,396.34	3/4	1,053.57	3/4	711.09	3/4	371.00	3/4	68.37	3/4	3/4	3/4	3/4	3/4	3/4
2	2,074.74	2	1,731.97	2	1,389.20	2	1,046.42	2	703.94	2	364.23	2	62.64	2	2	2	2	2	2
1/4	2,067.60	1/4	1,724.83	1/4	1,382.06	1/4	1,039.28	1/4	696.80	1/4	357.47	1/4	56.91	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,060.46	1/2	1,717.69	1/2	1,374.91	1/2	1,032.14	1/2	689.66	1/2	350.70	1/2	51.19	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,053.32	3/4	1,710.55	3/4	1,367.77	3/4	1,025.00	3/4	682.52	3/4	343.94	3/4	45.46	3/4	3/4	3/4	3/4	3/4	3/4
3	2,046.18	3	1,703.41	3	1,360.63	3	1,017.87	3	675.38	3	337.26	3	40.67	3	3	3	3	3	3
1/4	2,039.04	1/4	1,696.26	1/4	1,353.49	1/4	1,010.74	1/4	668.24	1/4	330.57	1/4	35.89	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,031.90	1/2	1,689.12	1/2	1,346.35	1/2	1,003.61	1/2	661.10	1/2	323.89	1/2	31.10	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,024.75	3/4	1,681.98	3/4	1,339.21	3/4	996.47	3/4	653.96	3/4	317.21	3/4	26.32	3/4	3/4	3/4	3/4	3/4	3/4
4	2,017.61	4	1,674.84	4	1,332.07	4	989.34	4	646.82	4	310.61	4	23.40	4	4	4	4	4	4
1/4	2,010.47	1/4	1,667.70	1/4	1,324.93	1/4	982.21	1/4	639.68	1/4	304.02	1/4	20.48	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,003.33	1/2	1,660.56	1/2	1,317.79	1/2	975.08	1/2	632.54	1/2	297.42	1/2	17.56	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,996.19	3/4	1,653.42	3/4	1,310.64	3/4	967.95	3/4	625.40	3/4	290.82	3/4	14.65	3/4	3/4	3/4	3/4	3/4	3/4
5	1,989.05	5	1,646.28	5	1,303.50	5	960.81	5	618.26	5	284.30	5		5	5	5	5	5	5
1/4	1,981.91	1/4	1,639.14	1/4	1,296.36	1/4	953.68	1/4	611.11	1/4	277.79	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,974.77	1/2	1,631.99	1/2	1,289.22	1/2	946.55	1/2	603.97	1/2	271.28	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,967.63	3/4	1,624.85	3/4	1,282.08	3/4	939.42	3/4	596.83	3/4	264.76	3/4		3/4	3/4	3/4	3/4	3/4	3/4
6	1,960.48	6	1,617.71	6	1,274.94	6	932.28	6	589.69	6	258.33	6		6	6	6	6	6	6
1/4	1,953.34	1/4	1,610.57	1/4	1,267.80	1/4	925.15	1/4	582.55	1/4	251.90	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,946.20	1/2	1,603.43	1/2	1,260.66	1/2	918.02	1/2	575.41	1/2	245.47	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,939.06	3/4	1,596.29	3/4	1,253.52	3/4	910.89	3/4	568.27	3/4	239.04	3/4		3/4	3/4	3/4	3/4	3/4	3/4
7	1,931.92	7	1,589.15	7	1,246.37	7	903.76	7	561.13	7	232.69	7		7	7	7	7	7	7
1/4	1,924.78	1/4	1,582.01	1/4	1,239.23	1/4	896.62	1/4	553.99	1/4	226.34	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,917.64	1/2	1,574.87	1/2	1,232.09	1/2	889.49	1/2	546.85	1/2	219.99	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,910.50	3/4	1,567.72	3/4	1,224.95	3/4	882.36	3/4	539.71	3/4	213.65	3/4		3/4	3/4	3/4	3/4	3/4	3/4
8	1,903.36	8	1,560.58	8	1,217.81	8	875.23	8	532.57	8	207.38	8		8	8	8	8	8	8
1/4	1,896.22	1/4	1,553.44	1/4	1,210.67	1/4	868.09	1/4	525.42	1/4	201.12	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,889.07	1/2	1,546.30	1/2	1,203.53	1/2	860.96	1/2	518.28	1/2	194.85	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,881.93	3/4	1,539.16	3/4	1,196.39	3/4	853.83	3/4	511.14	3/4	188.59	3/4		3/4	3/4	3/4	3/4	3/4	3/4
9	1,874.79	9	1,532.02	9	1,189.25	9	846.70	9	504.00	9	182.41	9		9	9	9	9	9	9
1/4	1,867.65	1/4	1,524.88	1/4	1,182.10	1/4	839.57	1/4	496.86	1/4	176.23	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,860.51	1/2	1,517.74	1/2	1,174.96	1/2	832.43	1/2	489.72	1/2	170.05	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,853.37	3/4	1,510.60	3/4	1,167.82	3/4	825.30	3/4	482.58	3/4	163.87	3/4		3/4	3/4	3/4	3/4	3/4	3/4
10	1,846.23	10	1,503.45	10	1,160.68	10	818.17	10	475.48	10	157.77	10		10	10	10	10	10	10
1/4	1,839.09	1/4	1,496.31	1/4	1,153.54	1/4	811.04	1/4	468.38	1/4	151.67	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,831.95	1/2	1,489.17	1/2	1,146.40	1/2	803.91	1/2	461.28	1/2	145.58	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,824.80	3/4	1,482.03	3/4	1,139.26	3/4	796.77	3/4	454.18	3/4	139.48	3/4		3/4	3/4	3/4	3/4	3/4	3/4
11	1,817.66	11	1,474.89	11	1,132.12	11	789.63	11	447.17	11	133.47	11		11	11	11	11	11	11
1/4	1,810.52	1/4	1,467.75	1/4	1,124.98	1/4	782.49	1/4	440.15	1/4	127.45	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,803.38	1/2	1,460.61	1/2	1,117.84	1/2	775.35	1/2	433.14	1/2	121.44	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,796.24	3/4	1,453.47	3/4	1,110.69	3/4	768.21	3/4	426.12	3/4	115.42	3/4		3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/15/2020 CL
CALCULATED: 07/16/2020 CL
PRINTED: 07/16/2020 JS

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

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2020



BARGE "HSM 3310"

formerly the

BARGE "FMT 3310"

2 PORT ULLAGE TABLE

HERMETIC

GAUGE HEIGHT 16'-05 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	4,960.80	0	4,619.08	0	4,276.70	0	3,932.91	0	3,589.13	0	3,245.34	0	2,901.51	0	2,557.62
1/4		1/4		1/4	4,953.72	1/4	4,611.95	1/4	4,269.54	1/4	3,925.75	1/4	3,581.96	1/4	3,238.18	1/4	2,894.35	1/4	2,550.45
1/2		1/2		1/2	4,946.64	1/2	4,604.82	1/2	4,262.37	1/2	3,918.59	1/2	3,574.80	1/2	3,231.02	1/2	2,887.18	1/2	2,543.29
3/4		3/4		3/4	4,939.56	3/4	4,597.69	3/4	4,255.21	3/4	3,911.43	3/4	3,567.64	3/4	3,223.85	3/4	2,880.02	3/4	2,536.13
1		1		1	4,932.47	1	4,590.56	1	4,248.05	1	3,904.26	1	3,560.48	1	3,216.69	1	2,872.85	1	2,528.96
1/4		1/4		1/4	4,925.39	1/4	4,583.43	1/4	4,240.89	1/4	3,897.10	1/4	3,553.32	1/4	3,209.53	1/4	2,865.69	1/4	2,521.80
1/2		1/2		1/2	4,918.30	1/2	4,576.30	1/2	4,233.72	1/2	3,889.94	1/2	3,546.15	1/2	3,202.37	1/2	2,858.52	1/2	2,514.63
3/4		3/4		3/4	4,911.22	3/4	4,569.17	3/4	4,226.56	3/4	3,882.78	3/4	3,538.99	3/4	3,195.21	3/4	2,851.36	3/4	2,507.47
2		2		2	4,904.13	2	4,562.05	2	4,219.40	2	3,875.61	2	3,531.83	2	3,188.04	2	2,844.19	2	2,500.30
1/4		1/4		1/4	4,897.05	1/4	4,554.92	1/4	4,212.24	1/4	3,868.45	1/4	3,524.67	1/4	3,180.88	1/4	2,837.03	1/4	2,493.14
1/2		1/2		1/2	4,889.96	1/2	4,547.79	1/2	4,205.08	1/2	3,861.29	1/2	3,517.50	1/2	3,173.72	1/2	2,829.87	1/2	2,485.97
3/4		3/4		3/4	4,882.88	3/4	4,540.66	3/4	4,197.91	3/4	3,854.13	3/4	3,510.34	3/4	3,166.56	3/4	2,822.70	3/4	2,478.81
3		3		3	4,875.75	3	4,533.53	3	4,190.75	3	3,846.97	3	3,503.18	3	3,159.39	3	2,815.54	3	2,471.65
1/4		1/4		1/4	4,868.62	1/4	4,526.40	1/4	4,183.59	1/4	3,839.80	1/4	3,496.02	1/4	3,152.23	1/4	2,808.37	1/4	2,464.48
1/2		1/2		1/2	4,861.49	1/2	4,519.27	1/2	4,176.43	1/2	3,832.64	1/2	3,488.86	1/2	3,145.07	1/2	2,801.21	1/2	2,457.32
3/4		3/4		3/4	4,854.36	3/4	4,512.14	3/4	4,169.27	3/4	3,825.48	3/4	3,481.69	3/4	3,137.91	3/4	2,794.04	3/4	2,450.15
4		4		4	4,847.23	4	4,505.01	4	4,162.10	4	3,818.32	4	3,474.53	4	3,130.75	4	2,786.88	4	2,442.99
1/4		1/4		1/4	4,840.10	1/4	4,497.88	1/4	4,154.94	1/4	3,811.16	1/4	3,467.37	1/4	3,123.58	1/4	2,779.71	1/4	2,435.82
1/2		1/2		1/2	4,832.97	1/2	4,490.75	1/2	4,147.78	1/2	3,803.99	1/2	3,460.21	1/2	3,116.42	1/2	2,772.55	1/2	2,428.66
3/4		3/4		3/4	4,825.84	3/4	4,483.62	3/4	4,140.62	3/4	3,796.83	3/4	3,453.05	3/4	3,109.26	3/4	2,765.39	3/4	2,421.49
5		5		5	4,818.71	5	4,476.49	5	4,133.45	5	3,789.67	5	3,445.88	5	3,102.10	5	2,758.22	5	2,414.33
1/4		1/4		1/4	4,811.58	1/4	4,469.36	1/4	4,126.29	1/4	3,782.51	1/4	3,438.72	1/4	3,094.94	1/4	2,751.06	1/4	2,407.17
1/2		1/2		1/2	4,804.45	1/2	4,462.23	1/2	4,119.13	1/2	3,775.34	1/2	3,431.56	1/2	3,087.77	1/2	2,743.89	1/2	2,400.00
3/4		3/4		3/4	4,797.32	3/4	4,455.10	3/4	4,111.97	3/4	3,768.18	3/4	3,424.40	3/4	3,080.61	3/4	2,736.73	3/4	2,392.84
6		6		6	4,790.19	6	4,447.97	6	4,104.81	6	3,761.02	6	3,417.23	6	3,073.45	6	2,729.56	6	2,385.67
1/4		1/4		1/4	4,783.06	1/4	4,440.84	1/4	4,097.64	1/4	3,753.86	1/4	3,410.07	1/4	3,066.29	1/4	2,722.40	1/4	2,378.51
1/2		1/2		1/2	4,775.93	1/2	4,433.71	1/2	4,090.48	1/2	3,746.70	1/2	3,402.91	1/2	3,059.12	1/2	2,715.24	1/2	2,371.34
3/4		3/4		3/4	5,084.17	3/4	4,768.80	3/4	4,426.58	3/4	4,083.32	3/4	3,739.53	3/4	3,395.75	3/4	3,051.96	3/4	2,708.07
7		7		7	5,080.37	7	4,761.67	7	4,419.45	7	4,076.16	7	3,732.37	7	3,388.59	7	3,044.80	7	2,700.91
1/4		1/4		1/4	5,076.57	1/4	4,754.54	1/4	4,412.32	1/4	4,068.99	1/4	3,725.21	1/4	3,381.42	1/4	3,037.63	1/4	2,693.74
1/2		1/2		1/2	5,072.77	1/2	4,747.41	1/2	4,405.19	1/2	4,061.83	1/2	3,718.05	1/2	3,374.26	1/2	3,030.47	1/2	2,686.58
3/4		3/4		3/4	5,068.97	3/4	4,740.29	3/4	4,398.06	3/4	4,054.67	3/4	3,710.88	3/4	3,367.10	3/4	3,023.30	3/4	2,679.41
8		8		8	5,063.97	8	4,733.16	8	4,390.93	8	4,047.51	8	3,703.72	8	3,359.94	8	3,016.14	8	2,672.25
1/4		1/4		1/4	5,058.98	1/4	4,726.03	1/4	4,383.81	1/4	4,040.35	1/4	3,696.56	1/4	3,352.77	1/4	3,008.98	1/4	2,665.08
1/2		1/2		1/2	5,053.98	1/2	4,718.90	1/2	4,376.68	1/2	4,033.18	1/2	3,689.40	1/2	3,345.61	1/2	3,001.81	1/2	2,657.92
3/4		3/4		3/4	5,048.99	3/4	4,711.77	3/4	4,369.55	3/4	4,026.02	3/4	3,682.24	3/4	3,338.45	3/4	2,994.65	3/4	2,650.76
9		9		9	5,042.80	9	4,704.64	9	4,362.42	9	4,018.86	9	3,675.07	9	3,331.29	9	2,987.48	9	2,643.59
1/4		1/4		1/4	5,036.61	1/4	4,697.51	1/4	4,355.29	1/4	4,011.70	1/4	3,667.91	1/4	3,324.13	1/4	2,980.32	1/4	2,636.43
1/2		1/2		1/2	5,030.42	1/2	4,690.38	1/2	4,348.16	1/2	4,004.53	1/2	3,660.75	1/2	3,316.96	1/2	2,973.15	1/2	2,629.26
3/4		3/4		3/4	5,024.23	3/4	4,683.25	3/4	4,341.03	3/4	3,997.37	3/4	3,653.59	3/4	3,309.80	3/4	2,965.99	3/4	2,622.10
10		10		10	5,017.21	10	4,676.12	10	4,333.90	10	3,990.21	10	3,646.42	10	3,302.64	10	2,958.82	10	2,614.93
1/4		1/4		1/4	5,010.20	1/4	4,668.99	1/4	4,326.77	1/4	3,983.05	1/4	3,639.26	1/4	3,295.48	1/4	2,951.66	1/4	2,607.77
1/2		1/2		1/2	5,003.18	1/2	4,661.86	1/2	4,319.64	1/2	3,975.89	1/2	3,632.10	1/2	3,288.31	1/2	2,944.50	1/2	2,600.60
3/4		3/4		3/4	4,996.17	3/4	4,654.73	3/4	4,312.51	3/4	3,968.72	3/4	3,624.94	3/4	3,281.15	3/4	2,937.33	3/4	2,593.44
11		11		11	4,989.10	11	4,647.60	11	4,305.35	11	3,961.56	11	3,617.78	11	3,273.99	11	2,930.17	11	2,586.28
1/4		1/4		1/4	4,982.03	1/4	4,640.47	1/4	4,298.18	1/4	3,954.40	1/4	3,610.61	1/4	3,266.83	1/4	2,923.00	1/4	2,579.11
1/2		1/2		1/2	4,974.96	1/2	4,633.34	1/2	4,291.02	1/2	3,947.24	1/2	3,603.45	1/2	3,259.67	1/2	2,915.84	1/2	2,571.95
3/4		3/4		3/4	4,967.89	3/4	4,626.21	3/4	4,283.86	3/4	3,940.07	3/4	3,596.29	3/4	3,252.50	3/4	2,908.67	3/4	2,564.78

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 11'-06" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "HSM 3310"

formerly the

BARGE "FMT 3310"

2 PORT
ULLAGE TABLE
HERMETIC
GAUGE HEIGHT 16'-05 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,213.73	0	1,869.84	0	1,525.94	0	1,182.05	0	850.66	0	508.81	0	164.94	0		0		0	
1/4	2,206.56	1/4	1,862.67	1/4	1,518.78	1/4	1,174.89	1/4	843.79	1/4	501.65	1/4	157.77	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,199.40	1/2	1,855.51	1/2	1,511.62	1/2	1,167.72	1/2	836.93	1/2	494.49	1/2	150.61	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,192.23	3/4	1,848.34	3/4	1,504.45	3/4	1,160.56	3/4	830.07	3/4	487.32	3/4	143.44	3/4	3/4	3/4	3/4	3/4	3/4
1	2,185.07	1	1,841.18	1	1,497.29	1	1,153.40	1	823.19	1	480.16	1	136.28	1	1	1	1	1	1
1/4	2,177.91	1/4	1,834.01	1/4	1,490.12	1/4	1,146.23	1/4	816.30	1/4	472.99	1/4	129.12	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,170.74	1/2	1,826.85	1/2	1,482.96	1/2	1,139.07	1/2	809.42	1/2	465.83	1/2	121.96	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,163.58	3/4	1,819.69	3/4	1,475.79	3/4	1,131.90	3/4	802.54	3/4	458.66	3/4	114.79	3/4	3/4	3/4	3/4	3/4	3/4
2	2,156.41	2	1,812.52	2	1,468.63	2	1,125.02	2	795.38	2	451.50	2	107.64	2	2	2	2	2	2
1/4	2,149.25	1/4	1,805.36	1/4	1,461.47	1/4	1,118.14	1/4	788.21	1/4	444.34	1/4	100.49	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,142.08	1/2	1,798.19	1/2	1,454.30	1/2	1,111.26	1/2	781.05	1/2	437.17	1/2	93.33	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,134.92	3/4	1,791.03	3/4	1,447.14	3/4	1,104.38	3/4	773.89	3/4	430.01	3/4	86.18	3/4	3/4	3/4	3/4	3/4	3/4
3	2,127.75	3	1,783.86	3	1,439.97	3	1,097.51	3	766.72	3	422.84	3	79.05	3	3	3	3	3	3
1/4	2,120.59	1/4	1,776.70	1/4	1,432.81	1/4	1,090.65	1/4	759.56	1/4	415.68	1/4	71.92	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,113.43	1/2	1,769.53	1/2	1,425.64	1/2	1,083.78	1/2	752.39	1/2	408.52	1/2	64.80	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,106.26	3/4	1,762.37	3/4	1,418.48	3/4	1,076.92	3/4	745.23	3/4	401.35	3/4	57.67	3/4	3/4	3/4	3/4	3/4	3/4
4	2,099.10	4	1,755.21	4	1,411.31	4	1,070.06	4	738.06	4	394.19	4	51.40	4	4	4	4	4	4
1/4	2,091.93	1/4	1,748.04	1/4	1,404.15	1/4	1,063.21	1/4	730.90	1/4	387.02	1/4	45.13	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,084.77	1/2	1,740.88	1/2	1,396.99	1/2	1,056.35	1/2	723.74	1/2	379.86	1/2	38.87	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,077.60	3/4	1,733.71	3/4	1,389.82	3/4	1,049.49	3/4	716.57	3/4	372.70	3/4	32.60	3/4	3/4	3/4	3/4	3/4	3/4
5	2,070.44	5	1,726.55	5	1,382.66	5	1,042.64	5	709.41	5	365.53	5	28.12	5	5	5	5	5	5
1/4	2,063.27	1/4	1,719.38	1/4	1,375.49	1/4	1,035.78	1/4	702.24	1/4	358.37	1/4	23.64	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,056.11	1/2	1,712.22	1/2	1,368.33	1/2	1,028.93	1/2	695.08	1/2	351.20	1/2	19.17	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,048.95	3/4	1,705.05	3/4	1,361.16	3/4	1,022.07	3/4	687.92	3/4	344.04	3/4	14.69	3/4	3/4	3/4	3/4	3/4	3/4
6	2,041.78	6	1,697.89	6	1,354.00	6	1,015.21	6	680.75	6	336.88	6		6	6	6	6	6	6
1/4	2,034.62	1/4	1,690.73	1/4	1,346.83	1/4	1,008.36	1/4	673.59	1/4	329.71	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,027.45	1/2	1,683.56	1/2	1,339.67	1/2	1,001.50	1/2	666.42	1/2	322.55	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,020.29	3/4	1,676.40	3/4	1,332.51	3/4	994.64	3/4	659.26	3/4	315.38	3/4		3/4	3/4	3/4	3/4	3/4	3/4
7	2,013.12	7	1,669.23	7	1,325.34	7	987.79	7	652.10	7	308.22	7		7	7	7	7	7	7
1/4	2,005.96	1/4	1,662.07	1/4	1,318.18	1/4	980.93	1/4	644.93	1/4	301.05	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,998.80	1/2	1,654.90	1/2	1,311.01	1/2	974.08	1/2	637.77	1/2	293.89	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,991.63	3/4	1,647.74	3/4	1,303.85	3/4	967.22	3/4	630.60	3/4	286.73	3/4		3/4	3/4	3/4	3/4	3/4	3/4
8	1,984.47	8	1,640.58	8	1,296.68	8	960.36	8	623.44	8	279.56	8		8	8	8	8	8	8
1/4	1,977.30	1/4	1,633.41	1/4	1,289.52	1/4	953.51	1/4	616.27	1/4	272.40	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,970.14	1/2	1,626.25	1/2	1,282.36	1/2	946.65	1/2	609.11	1/2	265.23	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,962.97	3/4	1,619.08	3/4	1,275.19	3/4	939.80	3/4	601.95	3/4	258.07	3/4		3/4	3/4	3/4	3/4	3/4	3/4
9	1,955.81	9	1,611.92	9	1,268.03	9	932.94	9	594.78	9	250.91	9		9	9	9	9	9	9
1/4	1,948.64	1/4	1,604.75	1/4	1,260.86	1/4	926.08	1/4	587.62	1/4	243.74	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,941.48	1/2	1,597.59	1/2	1,253.70	1/2	919.23	1/2	580.45	1/2	236.58	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,934.32	3/4	1,590.42	3/4	1,246.53	3/4	912.37	3/4	573.29	3/4	229.41	3/4		3/4	3/4	3/4	3/4	3/4	3/4
10	1,927.15	10	1,583.26	10	1,239.37	10	905.52	10	566.13	10	222.25	10		10	10	10	10	10	10
1/4	1,919.99	1/4	1,576.10	1/4	1,232.20	1/4	898.66	1/4	558.96	1/4	215.09	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,912.82	1/2	1,568.93	1/2	1,225.04	1/2	891.80	1/2	551.80	1/2	207.92	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,905.66	3/4	1,561.77	3/4	1,217.88	3/4	884.95	3/4	544.63	3/4	200.76	3/4		3/4	3/4	3/4	3/4	3/4	3/4
11	1,898.49	11	1,554.60	11	1,210.71	11	878.09	11	537.47	11	193.59	11		11	11	11	11	11	11
1/4	1,891.33	1/4	1,547.44	1/4	1,203.55	1/4	871.24	1/4	530.31	1/4	186.43	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,884.16	1/2	1,540.27	1/2	1,196.38	1/2	864.38	1/2	523.14	1/2	179.26	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,877.00	3/4	1,533.11	3/4	1,189.22	3/4	857.52	3/4	515.98	3/4	172.10	3/4		3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/15/2020 CL
CALCULATED: 07/16/2020 CL
PRINTED: 07/16/2020 JS

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



CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2020



BARGE "HSM 3310"

formerly the
BARGE "FMT 3310"

2 STBD
ULLAGE TABLE

HERMETIC
GAUGE HEIGHT 16'-05"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	4,957.34	0	4,615.15	0	4,272.34	0	3,928.21	0	3,584.12	0	3,240.10	0	2,896.03	0	2,551.90
1/4		1/4		1/4	4,950.25	1/4	4,608.01	1/4	4,265.17	1/4	3,921.04	1/4	3,576.95	1/4	3,232.93	1/4	2,888.86	1/4	2,544.73
1/2		1/2		1/2	4,943.16	1/2	4,600.88	1/2	4,258.00	1/2	3,913.87	1/2	3,569.79	1/2	3,225.77	1/2	2,881.69	1/2	2,537.56
3/4		3/4		3/4	4,936.06	3/4	4,593.74	3/4	4,250.83	3/4	3,906.70	3/4	3,562.62	3/4	3,218.60	3/4	2,874.52	3/4	2,530.39
1		1		1	4,928.97	1	4,586.60	1	4,243.66	1	3,899.54	1	3,555.45	1	3,211.43	1	2,871.35	1	2,523.22
1/4		1/4		1/4	4,921.88	1/4	4,579.47	1/4	4,236.49	1/4	3,892.37	1/4	3,548.29	1/4	3,204.27	1/4	2,860.18	1/4	2,516.05
1/2		1/2		1/2	4,914.79	1/2	4,572.33	1/2	4,229.32	1/2	3,885.20	1/2	3,541.12	1/2	3,197.10	1/2	2,853.01	1/2	2,508.88
3/4		3/4		3/4	4,907.70	3/4	4,565.19	3/4	4,222.15	3/4	3,878.03	3/4	3,533.95	3/4	3,189.93	3/4	2,845.84	3/4	2,501.72
2		2		2	4,900.61	2	4,558.06	2	4,214.98	2	3,870.86	2	3,526.78	2	3,182.76	2	2,838.67	2	2,494.55
1/4		1/4		1/4	4,893.47	1/4	4,550.92	1/4	4,207.82	1/4	3,863.69	1/4	3,519.62	1/4	3,175.60	1/4	2,831.50	1/4	2,487.38
1/2		1/2		1/2	4,886.33	1/2	4,543.79	1/2	4,200.65	1/2	3,856.52	1/2	3,512.45	1/2	3,168.43	1/2	2,824.33	1/2	2,480.21
3/4		3/4		3/4	4,879.20	3/4	4,536.65	3/4	4,193.48	3/4	3,849.35	3/4	3,505.28	3/4	3,161.26	3/4	2,817.16	3/4	2,473.04
3		3		3	4,872.06	3	4,529.51	3	4,186.31	3	3,842.18	3	3,498.12	3	3,154.10	3	2,810.00	3	2,465.87
1/4		1/4		1/4	4,864.92	1/4	4,522.38	1/4	4,179.14	1/4	3,835.01	1/4	3,490.95	1/4	3,146.93	1/4	2,802.83	1/4	2,458.70
1/2		1/2		1/2	4,857.79	1/2	4,515.24	1/2	4,171.97	1/2	3,827.84	1/2	3,483.78	1/2	3,139.76	1/2	2,795.66	1/2	2,451.53
3/4		3/4		3/4	4,850.65	3/4	4,508.10	3/4	4,164.80	3/4	3,820.67	3/4	3,476.62	3/4	3,132.59	3/4	2,788.49	3/4	2,444.36
4		4		4	4,843.51	4	4,500.97	4	4,157.63	4	3,813.50	4	3,469.45	4	3,125.43	4	2,781.32	4	2,437.19
1/4		1/4		1/4	4,836.38	1/4	4,493.83	1/4	4,150.46	1/4	3,806.33	1/4	3,462.28	1/4	3,118.26	1/4	2,774.15	1/4	2,430.02
1/2		1/2		1/2	4,829.24	1/2	4,486.69	1/2	4,143.29	1/2	3,799.17	1/2	3,455.11	1/2	3,111.09	1/2	2,766.98	1/2	2,422.85
3/4		3/4		3/4	4,822.11	3/4	4,479.56	3/4	4,136.12	3/4	3,792.00	3/4	3,447.95	3/4	3,103.93	3/4	2,759.81	3/4	2,415.68
5		5		5	4,814.97	5	4,472.42	5	4,128.95	5	3,784.83	5	3,440.78	5	3,096.76	5	2,752.64	5	2,408.51
1/4		1/4		1/4	4,807.83	1/4	4,465.29	1/4	4,121.78	1/4	3,777.66	1/4	3,433.61	1/4	3,089.59	1/4	2,745.47	1/4	2,401.35
1/2		1/2		1/2	4,800.70	1/2	4,458.15	1/2	4,114.61	1/2	3,770.49	1/2	3,426.45	1/2	3,082.42	1/2	2,738.30	1/2	2,394.18
3/4		3/4		3/4	4,793.56	3/4	4,451.01	3/4	4,107.45	3/4	3,763.32	3/4	3,419.28	3/4	3,075.26	3/4	2,731.13	3/4	2,387.01
6		6	5,102.10	6	4,786.42	6	4,443.88	6	4,100.28	6	3,756.15	6	3,412.11	6	3,068.09	6	2,723.96	6	2,379.84
1/4		1/4	5,098.29	1/4	4,779.29	1/4	4,436.74	1/4	4,093.11	1/4	3,748.98	1/4	3,404.94	1/4	3,060.92	1/4	2,716.79	1/4	2,372.67
1/2		1/2	5,094.49	1/2	4,772.15	1/2	4,429.60	1/2	4,085.94	1/2	3,741.81	1/2	3,397.78	1/2	3,053.75	1/2	2,709.63	1/2	2,365.50
3/4		3/4	5,090.68	3/4	4,765.01	3/4	4,422.47	3/4	4,078.77	3/4	3,734.64	3/4	3,390.61	3/4	3,046.58	3/4	2,702.46	3/4	2,358.33
7		7	5,086.88	7	4,757.88	7	4,415.33	7	4,071.60	7	3,727.47	7	3,383.44	7	3,039.41	7	2,695.29	7	2,351.16
1/4		1/4	5,081.88	1/4	4,750.74	1/4	4,408.19	1/4	4,064.43	1/4	3,720.30	1/4	3,376.28	1/4	3,032.24	1/4	2,688.12	1/4	2,343.99
1/2		1/2	5,076.88	1/2	4,743.60	1/2	4,401.06	1/2	4,057.26	1/2	3,713.13	1/2	3,369.11	1/2	3,025.07	1/2	2,680.95	1/2	2,336.82
3/4		3/4	5,071.88	3/4	4,736.47	3/4	4,393.92	3/4	4,050.09	3/4	3,705.96	3/4	3,361.94	3/4	3,017.91	3/4	2,673.78	3/4	2,329.65
8		8	5,066.88	8	4,729.33	8	4,386.78	8	4,042.92	8	3,698.80	8	3,354.77	8	3,010.74	8	2,666.61	8	2,322.48
1/4		1/4	5,060.68	1/4	4,722.20	1/4	4,379.65	1/4	4,035.75	1/4	3,691.63	1/4	3,347.61	1/4	3,003.57	1/4	2,659.44	1/4	2,315.31
1/2		1/2	5,054.49	1/2	4,715.06	1/2	4,372.51	1/2	4,028.58	1/2	3,684.46	1/2	3,340.44	1/2	2,996.40	1/2	2,652.27	1/2	2,308.14
3/4		3/4	5,048.29	3/4	4,707.92	3/4	4,365.38	3/4	4,021.41	3/4	3,677.29	3/4	3,333.27	3/4	2,989.23	3/4	2,645.10	3/4	2,300.98
9		9	5,042.10	9	4,700.79	9	4,358.24	9	4,014.24	9	3,670.13	9	3,326.11	9	2,982.06	9	2,637.93	9	2,293.81
1/4		1/4	5,035.07	1/4	4,693.65	1/4	4,351.10	1/4	4,007.08	1/4	3,662.96	1/4	3,318.94	1/4	2,974.89	1/4	2,630.76	1/4	2,286.64
1/2		1/2	5,028.05	1/2	4,686.51	1/2	4,343.97	1/2	3,999.91	1/2	3,655.79	1/2	3,311.77	1/2	2,967.72	1/2	2,623.59	1/2	2,279.47
3/4		3/4	5,021.03	3/4	4,679.38	3/4	4,336.83	3/4	3,992.74	3/4	3,648.63	3/4	3,304.60	3/4	2,960.55	3/4	2,616.42	3/4	2,272.30
10		10	5,014.01	10	4,672.24	10	4,329.69	10	3,985.57	10	3,641.46	10	3,297.44	10	2,953.38	10	2,609.26	10	2,265.13
1/4		1/4	5,006.93	1/4	4,665.10	1/4	4,322.52	1/4	3,978.40	1/4	3,634.29	1/4	3,290.27	1/4	2,946.21	1/4	2,602.09	1/4	2,257.96
1/2		1/2	4,999.85	1/2	4,657.97	1/2	4,315.35	1/2	3,971.23	1/2	3,627.12	1/2	3,283.10	1/2	2,939.04	1/2	2,594.92	1/2	2,250.79
3/4		3/4	4,992.78	3/4	4,650.83	3/4	4,308.19	3/4	3,964.06	3/4	3,619.96	3/4	3,275.94	3/4	2,931.87	3/4	2,587.75	3/4	2,243.62
11		11	4,985.70	11	4,643.70	11	4,301.02	11	3,956.89	11	3,612.79	11	3,268.77	11	2,924.70	11	2,580.58	11	2,236.45
1/4		1/4	4,978.61	1/4	4,636.56	1/4	4,293.85	1/4	3,949.72	1/4	3,605.62	1/4	3,261.60	1/4	2,917.54	1/4	2,573.41	1/4	2,229.28
1/2		1/2	4,971.52	1/2	4,629.42	1/2	4,286.68	1/2	3,942.55	1/2	3,598.46	1/2	3,254.43	1/2	2,910.37	1/2	2,566.24	1/2	2,222.11
3/4		3/4	4,964.43	3/4	4,622.29	3/4	4,279.51	3/4	3,935.38	3/4	3,591.29	3/4	3,247.27	3/4	2,903.20	3/4	2,559.07	3/4	2,214.94

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 11'-06" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "HSM 3310"

formerly the
BARGE "FMT 3310"

2 STBD
ULLAGE TABLE
HERMETIC
GAUGE HEIGHT 16'-05"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,207.77	0	1,863.65	0	1,519.52	0	1,175.40	0	831.77	0	487.66	0	143.55	0		0		0	
1/4	2,200.61	1/4	1,856.48	1/4	1,512.35	1/4	1,168.23	1/4	824.60	1/4	480.49	1/4	136.38	1/4	1/4	1/4		1/4	
1/2	2,193.44	1/2	1,849.31	1/2	1,505.18	1/2	1,161.06	1/2	817.43	1/2	473.32	1/2	129.21	1/2	1/2	1/2		1/2	
3/4	2,186.27	3/4	1,842.14	3/4	1,498.01	3/4	1,153.89	3/4	810.26	3/4	466.15	3/4	122.04	3/4	3/4	3/4		3/4	
1	2,179.10	1	1,834.97	1	1,490.84	1	1,146.72	1	803.09	1	458.98	1	114.87	1	1	1		1	
1/4	2,171.93	1/4	1,827.80	1/4	1,483.68	1/4	1,139.55	1/4	795.92	1/4	451.81	1/4	107.72	1/4	1/4	1/4		1/4	
1/2	2,164.76	1/2	1,820.63	1/2	1,476.51	1/2	1,132.38	1/2	788.76	1/2	444.64	1/2	100.56	1/2	1/2	1/2		1/2	
3/4	2,157.59	3/4	1,813.46	3/4	1,469.34	3/4	1,125.21	3/4	781.59	3/4	437.47	3/4	93.40	3/4	3/4	3/4		3/4	
2	2,150.42	2	1,806.29	2	1,462.17	2	1,118.04	2	774.42	2	430.31	2	86.24	2	2	2		2	
1/4	2,143.25	1/4	1,799.12	1/4	1,455.00	1/4	1,110.88	1/4	767.25	1/4	423.14	1/4	79.11	1/4	1/4	1/4		1/4	
1/2	2,136.08	1/2	1,791.95	1/2	1,447.83	1/2	1,103.71	1/2	760.08	1/2	415.97	1/2	71.97	1/2	1/2	1/2		1/2	
3/4	2,128.91	3/4	1,784.79	3/4	1,440.66	3/4	1,096.55	3/4	752.91	3/4	408.80	3/4	64.84	3/4	3/4	3/4		3/4	
3	2,121.74	3	1,777.62	3	1,433.49	3	1,089.39	3	745.74	3	401.63	3	57.71	3	3	3		3	
1/4	2,114.57	1/4	1,770.45	1/4	1,426.32	1/4	1,082.23	1/4	738.57	1/4	394.46	1/4	51.44	1/4	1/4	1/4		1/4	
1/2	2,107.40	1/2	1,763.28	1/2	1,419.15	1/2	1,075.08	1/2	731.40	1/2	387.29	1/2	45.17	1/2	1/2	1/2		1/2	
3/4	2,100.23	3/4	1,756.11	3/4	1,411.98	3/4	1,067.92	3/4	724.23	3/4	380.12	3/4	38.90	3/4	3/4	3/4		3/4	
4	2,093.07	4	1,748.94	4	1,404.81	4	1,060.77	4	717.07	4	372.95	4	32.62	4	4	4		4	
1/4	2,085.90	1/4	1,741.77	1/4	1,397.64	1/4	1,053.61	1/4	709.90	1/4	365.78	1/4	28.14	1/4	1/4	1/4		1/4	
1/2	2,078.73	1/2	1,734.60	1/2	1,390.47	1/2	1,046.46	1/2	702.73	1/2	358.62	1/2	23.66	1/2	1/2	1/2		1/2	
3/4	2,071.56	3/4	1,727.43	3/4	1,383.30	3/4	1,039.30	3/4	695.56	3/4	351.45	3/4	19.18	3/4	3/4	3/4		3/4	
5	2,064.39	5	1,720.26	5	1,376.14	5	1,032.15	5	688.39	5	344.28	5	14.70	5	5	5		5	
1/4	2,057.22	1/4	1,713.09	1/4	1,368.97	1/4	1,024.99	1/4	681.22	1/4	337.11	1/4		1/4	1/4	1/4		1/4	
1/2	2,050.05	1/2	1,705.92	1/2	1,361.80	1/2	1,017.84	1/2	674.05	1/2	329.94	1/2		1/2	1/2	1/2		1/2	
3/4	2,042.88	3/4	1,698.75	3/4	1,354.63	3/4	1,010.68	3/4	666.88	3/4	322.77	3/4		3/4	3/4	3/4		3/4	
6	2,035.71	6	1,691.58	6	1,347.46	6	1,003.53	6	659.71	6	315.60	6	6	6	6	6		6	
1/4	2,028.54	1/4	1,684.42	1/4	1,340.29	1/4	996.37	1/4	652.54	1/4	308.43	1/4		1/4	1/4	1/4		1/4	
1/2	2,021.37	1/2	1,677.25	1/2	1,333.12	1/2	989.21	1/2	645.38	1/2	301.26	1/2		1/2	1/2	1/2		1/2	
3/4	2,014.20	3/4	1,670.08	3/4	1,325.95	3/4	982.06	3/4	638.21	3/4	294.09	3/4		3/4	3/4	3/4		3/4	
7	2,007.03	7	1,662.91	7	1,318.78	7	974.90	7	631.04	7	286.93	7	7	7	7	7		7	
1/4	1,999.86	1/4	1,655.74	1/4	1,311.61	1/4	967.75	1/4	623.87	1/4	279.76	1/4		1/4	1/4	1/4		1/4	
1/2	1,992.70	1/2	1,648.57	1/2	1,304.44	1/2	960.59	1/2	616.70	1/2	272.59	1/2		1/2	1/2	1/2		1/2	
3/4	1,985.53	3/4	1,641.40	3/4	1,297.27	3/4	953.44	3/4	609.53	3/4	265.42	3/4		3/4	3/4	3/4		3/4	
8	1,978.36	8	1,634.23	8	1,290.10	8	946.28	8	602.36	8	258.25	8	8	8	8	8		8	
1/4	1,971.19	1/4	1,627.06	1/4	1,282.93	1/4	939.13	1/4	595.19	1/4	251.08	1/4		1/4	1/4	1/4		1/4	
1/2	1,964.02	1/2	1,619.89	1/2	1,275.77	1/2	931.97	1/2	588.02	1/2	243.91	1/2		1/2	1/2	1/2		1/2	
3/4	1,956.85	3/4	1,612.72	3/4	1,268.60	3/4	924.82	3/4	580.85	3/4	236.74	3/4		3/4	3/4	3/4		3/4	
9	1,949.68	9	1,605.55	9	1,261.43	9	917.66	9	573.69	9	229.57	9	9	9	9	9		9	
1/4	1,942.51	1/4	1,598.38	1/4	1,254.26	1/4	910.51	1/4	566.52	1/4	222.40	1/4		1/4	1/4	1/4		1/4	
1/2	1,935.34	1/2	1,591.21	1/2	1,247.09	1/2	903.35	1/2	559.35	1/2	215.24	1/2		1/2	1/2	1/2		1/2	
3/4	1,928.17	3/4	1,584.05	3/4	1,239.92	3/4	896.20	3/4	552.18	3/4	208.07	3/4		3/4	3/4	3/4		3/4	
10	1,921.00	10	1,576.88	10	1,232.75	10	889.04	10	545.01	10	200.90	10	10	10	10	10		10	
1/4	1,913.83	1/4	1,569.71	1/4	1,225.58	1/4	881.89	1/4	537.84	1/4	193.73	1/4		1/4	1/4	1/4		1/4	
1/2	1,906.66	1/2	1,562.54	1/2	1,218.41	1/2	874.73	1/2	530.67	1/2	186.56	1/2		1/2	1/2	1/2		1/2	
3/4	1,899.49	3/4	1,555.37	3/4	1,211.24	3/4	867.58	3/4	523.50	3/4	179.39	3/4		3/4	3/4	3/4		3/4	
11	1,892.33	11	1,548.20	11	1,204.07	11	860.42	11	516.33	11	172.22	11	11	11	11	11		11	
1/4	1,885.16	1/4	1,541.03	1/4	1,196.90	1/4	853.26	1/4	509.16	1/4	165.05	1/4		1/4	1/4	1/4		1/4	
1/2	1,877.99	1/2	1,533.86	1/2	1,189.73	1/2	846.10	1/2	502.00	1/2	157.88	1/2		1/2	1/2	1/2		1/2	
3/4	1,870.82	3/4	1,526.69	3/4	1,182.56	3/4	838.93	3/4	494.83	3/4	150.71	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/15/2020 CL
CALCULATED: 07/16/2020 CL
PRINTED: 07/16/2020 JS

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2020



BARGE "HSM 3310"

formerly the

BARGE "FMT 3310"

3 PORT ULLAGE TABLE

HERMETIC GAUGE HEIGHT 16'-04 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0		0	4,301.82	0	4,093.08	0	3,883.97	0	3,674.12	0	3,464.54	0	3,197.99	0	2,856.33	0	2,514.59		
1/4		1/4		1/4	4,297.50	1/4	4,088.73	1/4	3,879.60	1/4	3,669.75	1/4	3,460.18	1/4	3,190.89	1/4	2,849.21	1/4	2,507.47		
1/2		1/2		1/2	4,293.17	1/2	4,084.37	1/2	3,875.23	1/2	3,665.38	1/2	3,455.83	1/2	3,183.79	1/2	2,842.09	1/2	2,500.35		
3/4		3/4		3/4	4,288.85	3/4	4,080.02	3/4	3,870.86	3/4	3,661.01	3/4	3,451.47	3/4	3,176.69	3/4	2,834.97	3/4	2,493.23		
1		1		1	4,284.52	1	4,075.67	1	3,866.48	1	3,656.63	1	3,447.11	1	3,169.59	1	2,827.85	1	2,486.11		
1/4		1/4		1/4	4,280.19	1/4	4,071.31	1/4	3,862.11	1/4	3,652.26	1/4	3,442.76	1/4	3,162.49	1/4	2,820.73	1/4	2,478.99		
1/2		1/2		1/2	4,275.87	1/2	4,066.96	1/2	3,857.74	1/2	3,647.89	1/2	3,438.40	1/2	3,155.40	1/2	2,813.61	1/2	2,471.87		
3/4		3/4		3/4	4,271.54	3/4	4,062.61	3/4	3,853.37	3/4	3,643.52	3/4	3,434.05	3/4	3,148.30	3/4	2,806.49	3/4	2,464.75		
2		2		2	4,267.19	2	4,058.26	2	3,849.00	2	3,639.15	2	3,429.69	2	3,141.20	2	2,799.37	2	2,457.63		
1/4		1/4		1/4	4,262.84	1/4	4,053.90	1/4	3,844.63	1/4	3,634.77	1/4	3,425.33	1/4	3,134.10	1/4	2,792.25	1/4	2,450.51		
1/2		1/2		1/2	4,258.48	1/2	4,049.55	1/2	3,840.25	1/2	3,630.40	1/2	3,420.98	1/2	3,127.00	1/2	2,785.13	1/2	2,443.39		
3/4		3/4		3/4	4,254.13	3/4	4,045.20	3/4	3,835.88	3/4	3,626.03	3/4	3,416.62	3/4	3,119.90	3/4	2,778.01	3/4	2,436.27		
3		3		3	4,249.78	3	4,040.84	3	3,831.51	3	3,621.66	3	3,412.27	3	3,112.79	3	2,770.90	3	2,429.14		
1/4		1/4		1/4	4,245.43	1/4	4,036.49	1/4	3,827.14	1/4	3,617.29	1/4	3,407.91	1/4	3,105.67	1/4	2,763.78	1/4	2,422.02		
1/2		1/2		1/2	4,241.07	1/2	4,032.14	1/2	3,822.77	1/2	3,612.91	1/2	3,403.55	1/2	3,098.56	1/2	2,756.66	1/2	2,414.90		
3/4		3/4		3/4	4,236.72	3/4	4,027.79	3/4	3,818.39	3/4	3,608.54	3/4	3,399.20	3/4	3,091.44	3/4	2,749.54	3/4	2,407.78		
4		4		4	4,232.37	4	4,023.43	4	3,814.02	4	3,604.17	4	3,394.84	4	3,084.32	4	2,742.42	4	2,400.66		
1/4		1/4		1/4	4,228.02	1/4	4,019.08	1/4	3,809.65	1/4	3,599.80	1/4	3,390.48	1/4	3,077.21	1/4	2,735.30	1/4	2,393.54		
1/2		1/2		1/2	4,223.66	1/2	4,014.73	1/2	3,805.28	1/2	3,595.43	1/2	3,386.13	1/2	3,070.09	1/2	2,728.18	1/2	2,386.42		
3/4		3/4		3/4	4,219.31	3/4	4,010.38	3/4	3,800.91	3/4	3,591.05	3/4	3,381.77	3/4	3,062.98	3/4	2,721.06	3/4	2,379.30		
5		5		5	4,214.96	5	4,006.02	5	3,796.53	5	3,586.68	5	3,377.43	5	3,055.86	5	2,713.94	5	2,372.18		
1/4		1/4		1/4	4,210.60	1/4	4,001.67	1/4	3,792.16	1/4	3,582.31	1/4	3,373.10	1/4	3,048.75	1/4	2,706.82	1/4	2,365.06		
1/2		1/2		1/2	4,206.25	1/2	3,997.32	1/2	3,787.79	1/2	3,577.94	1/2	3,368.76	1/2	3,041.63	1/2	2,699.70	1/2	2,357.94		
3/4		3/4	4,387.25	3/4	4,201.90	3/4	3,992.96	3/4	3,783.42	3/4	3,573.57	3/4	3,364.42	3/4	3,034.51	3/4	2,692.58	3/4	2,350.82		
6		6	4,385.54	6	4,197.55	6	3,988.61	6	3,779.05	6	3,569.20	6	3,360.08	6	3,027.38	6	2,685.46	6	2,343.70		
1/4		1/4	4,383.83	1/4	4,193.19	1/4	3,984.26	1/4	3,774.67	1/4	3,564.82	1/4	3,355.75	1/4	3,020.25	1/4	2,678.34	1/4	2,336.58		
1/2		1/2	4,382.13	1/2	4,188.84	1/2	3,979.91	1/2	3,770.30	1/2	3,560.45	1/2	3,351.41	1/2	3,013.12	1/2	2,671.22	1/2	2,329.45		
3/4		3/4	4,380.42	3/4	4,184.49	3/4	3,975.55	3/4	3,765.93	3/4	3,556.08	3/4	3,347.07	3/4	3,005.99	3/4	2,664.10	3/4	2,322.33		
7		7	4,378.17	7	4,180.13	7	3,971.20	7	3,761.56	7	3,551.71	7	3,339.97	7	2,998.86	7	2,656.98	7	2,315.21		
1/4		1/4	4,375.93	1/4	4,175.78	1/4	3,966.85	1/4	3,757.19	1/4	3,547.34	1/4	3,332.87	1/4	2,991.72	1/4	2,649.86	1/4	2,308.09		
1/2		1/2	4,373.68	1/2	4,171.43	1/2	3,962.49	1/2	3,752.82	1/2	3,542.96	1/2	3,325.77	1/2	2,984.59	1/2	2,642.74	1/2	2,300.97		
3/4		3/4	4,371.44	3/4	4,167.08	3/4	3,958.14	3/4	3,748.44	3/4	3,538.59	3/4	3,318.67	3/4	2,977.46	3/4	2,635.62	3/4	2,293.85		
8		8	4,368.01	8	4,162.72	8	3,953.79	8	3,744.07	8	3,534.24	8	3,311.57	8	2,970.33	8	2,628.50	8	2,286.73		
1/4		1/4	4,364.57	1/4	4,158.37	1/4	3,949.44	1/4	3,739.70	1/4	3,529.88	1/4	3,304.47	1/4	2,963.20	1/4	2,621.38	1/4	2,279.61		
1/2		1/2	4,361.14	1/2	4,154.02	1/2	3,945.08	1/2	3,735.33	1/2	3,525.52	1/2	3,297.37	1/2	2,956.07	1/2	2,614.26	1/2	2,272.49		
3/4		3/4	4,357.71	3/4	4,149.66	3/4	3,940.73	3/4	3,730.96	3/4	3,521.17	3/4	3,290.27	3/4	2,948.93	3/4	2,607.14	3/4	2,265.37		
9		9	4,353.45	9	4,145.31	9	3,936.38	9	3,726.58	9	3,516.81	9	3,283.17	9	2,941.80	9	2,600.02	9	2,258.25		
1/4		1/4	4,349.19	1/4	4,140.96	1/4	3,932.02	1/4	3,722.21	1/4	3,512.46	1/4	3,276.07	1/4	2,934.67	1/4	2,592.91	1/4	2,251.13		
1/2		1/2	4,344.94	1/2	4,136.61	1/2	3,927.67	1/2	3,717.84	1/2	3,508.10	1/2	3,268.97	1/2	2,927.54	1/2	2,585.79	1/2	2,244.01		
3/4		3/4	4,340.68	3/4	4,132.25	3/4	3,923.32	3/4	3,713.47	3/4	3,503.74	3/4	3,261.87	3/4	2,920.41	3/4	2,578.67	3/4	2,236.89		
10		10	4,336.37	10	4,127.90	10	3,918.95	10	3,709.10	10	3,499.39	10	3,254.77	10	2,913.29	10	2,571.55	10	2,229.76		
1/4		1/4	4,332.06	1/4	4,123.55	1/4	3,914.58	1/4	3,704.72	1/4	3,495.03	1/4	3,247.67	1/4	2,906.17	1/4	2,564.43	1/4	2,222.64		
1/2		1/2	4,327.75	1/2	4,119.20	1/2	3,910.20	1/2	3,700.35	1/2	3,490.67	1/2	3,240.58	1/2	2,899.05	1/2	2,557.31	1/2	2,215.52		
3/4		3/4	4,323.44	3/4	4,114.84	3/4	3,905.83	3/4	3,695.98	3/4	3,486.32	3/4	3,233.48	3/4	2,891.93	3/4	2,550.19	3/4	2,208.40		
11		11	4,319.11	11	4,110.49	11	3,901.46	11	3,691.61	11	3,481.96	11	3,226.38	11	2,884.81	11	2,543.07	11	2,201.28		
1/4		1/4	4,314.79	1/4	4,106.14	1/4	3,897.09	1/4	3,687.24	1/4	3,477.61	1/4	3,219.28	1/4	2,877.69	1/4	2,535.95	1/4	2,194.16		
1/2		1/2	4,310.47	1/2	4,101.78	1/2	3,892.72	1/2	3,682.86	1/2	3,473.25	1/2	3,212.18	1/2	2,870.57	1/2	2,528.83	1/2	2,187.04		
3/4		3/4	4,306.15	3/4	4,097.43	3/4	3,888.34	3/4	3,678.49	3/4	3,468.89	3/4	3,205.08	3/4	2,863.45	3/4	2,521.71	3/4	2,179.92		

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 11'-06" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD.

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



BARGE "HSM 3310"

formerly the
BARGE "FMT 3310"

3 PORT
ULLAGE TABLE
HERMETIC
GAUGE HEIGHT 16'-04 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,172.80	0	1,831.01	0	1,489.21	0	1,147.42	0	819.10	0	477.95	0	135.71	0		0		0	
1/4	2,165.68	1/4	1,823.89	1/4	1,482.09	1/4	1,140.30	1/4	812.22	1/4	470.82	1/4	128.58	1/4	1/4	1/4		1/4	
1/2	2,158.56	1/2	1,816.76	1/2	1,474.97	1/2	1,133.18	1/2	805.33	1/2	463.70	1/2	121.44	1/2	1/2	1/2		1/2	
3/4	2,151.44	3/4	1,809.64	3/4	1,467.85	3/4	1,126.06	3/4	798.44	3/4	456.58	3/4	114.31	3/4	3/4	3/4		3/4	
1	2,144.32	1	1,802.52	1	1,460.73	1	1,119.17	1	791.31	1	449.46	1	107.19	1	1	1		1	
1/4	2,137.20	1/4	1,795.40	1/4	1,453.61	1/4	1,112.28	1/4	784.19	1/4	442.34	1/4	100.07	1/4	1/4	1/4		1/4	
1/2	2,130.08	1/2	1,788.28	1/2	1,446.49	1/2	1,105.39	1/2	777.07	1/2	435.21	1/2	92.94	1/2	1/2	1/2		1/2	
3/4	2,122.95	3/4	1,781.16	3/4	1,439.37	3/4	1,098.50	3/4	769.95	3/4	428.09	3/4	85.82	3/4	3/4	3/4		3/4	
2	2,115.83	2	1,774.04	2	1,432.25	2	1,091.68	2	762.83	2	420.97	2	78.72	2	2	2		2	
1/4	2,108.71	1/4	1,766.92	1/4	1,425.13	1/4	1,084.86	1/4	755.70	1/4	413.85	1/4	71.62	1/4	1/4	1/4		1/4	
1/2	2,101.59	1/2	1,759.80	1/2	1,418.01	1/2	1,078.04	1/2	748.58	1/2	406.73	1/2	64.53	1/2	1/2	1/2		1/2	
3/4	2,094.47	3/4	1,752.68	3/4	1,410.88	3/4	1,071.22	3/4	741.46	3/4	399.60	3/4	57.43	3/4	3/4	3/4		3/4	
3	2,087.35	3	1,745.56	3	1,403.76	3	1,064.41	3	734.34	3	392.48	3	51.19	3	3	3		3	
1/4	2,080.23	1/4	1,738.44	1/4	1,396.64	1/4	1,057.60	1/4	727.22	1/4	385.36	1/4	44.95	1/4	1/4	1/4		1/4	
1/2	2,073.11	1/2	1,731.32	1/2	1,389.52	1/2	1,050.79	1/2	720.09	1/2	378.24	1/2	38.71	1/2	1/2	1/2		1/2	
3/4	2,065.99	3/4	1,724.20	3/4	1,382.40	3/4	1,043.98	3/4	712.97	3/4	371.12	3/4	32.47	3/4	3/4	3/4		3/4	
4	2,058.87	4	1,717.07	4	1,375.28	4	1,037.17	4	705.85	4	363.98	4	28.01	4	4	4		4	
1/4	2,051.75	1/4	1,709.95	1/4	1,368.16	1/4	1,030.36	1/4	698.73	1/4	356.85	1/4	23.55	1/4	1/4	1/4		1/4	
1/2	2,044.63	1/2	1,702.83	1/2	1,361.04	1/2	1,023.54	1/2	691.61	1/2	349.71	1/2	19.09	1/2	1/2	1/2		1/2	
3/4	2,037.51	3/4	1,695.71	3/4	1,353.92	3/4	1,016.73	3/4	684.48	3/4	342.58	3/4	14.63	3/4	3/4	3/4		3/4	
5	2,030.39	5	1,688.59	5	1,346.80	5	1,009.92	5	677.36	5	335.45	5		5	5	5		5	
1/4	2,023.26	1/4	1,681.47	1/4	1,339.68	1/4	1,003.11	1/4	670.24	1/4	328.31	1/4		1/4	1/4	1/4		1/4	
1/2	2,016.14	1/2	1,674.35	1/2	1,332.56	1/2	996.30	1/2	663.12	1/2	321.18	1/2		1/2	1/2	1/2		1/2	
3/4	2,009.02	3/4	1,667.23	3/4	1,325.44	3/4	989.49	3/4	656.00	3/4	314.05	3/4		3/4	3/4	3/4		3/4	
6	2,001.90	6	1,660.11	6	1,318.32	6	982.68	6	648.87	6	306.91	6	6	6	6	6		6	
1/4	1,994.78	1/4	1,652.99	1/4	1,311.19	1/4	975.87	1/4	641.75	1/4	299.78	1/4		1/4	1/4	1/4		1/4	
1/2	1,987.66	1/2	1,645.87	1/2	1,304.07	1/2	969.06	1/2	634.63	1/2	292.65	1/2		1/2	1/2	1/2		1/2	
3/4	1,980.54	3/4	1,638.75	3/4	1,296.95	3/4	962.24	3/4	627.51	3/4	285.51	3/4		3/4	3/4	3/4		3/4	
7	1,973.42	7	1,631.63	7	1,289.83	7	955.43	7	620.39	7	278.38	7	7	7	7	7		7	
1/4	1,966.30	1/4	1,624.51	1/4	1,282.71	1/4	948.62	1/4	613.26	1/4	271.25	1/4		1/4	1/4	1/4		1/4	
1/2	1,959.18	1/2	1,617.38	1/2	1,275.59	1/2	941.81	1/2	606.14	1/2	264.11	1/2		1/2	1/2	1/2		1/2	
3/4	1,952.06	3/4	1,610.26	3/4	1,268.47	3/4	935.00	3/4	599.02	3/4	256.98	3/4		3/4	3/4	3/4		3/4	
8	1,944.94	8	1,603.14	8	1,261.35	8	928.19	8	591.90	8	249.84	8	8	8	8	8		8	
1/4	1,937.82	1/4	1,596.02	1/4	1,254.23	1/4	921.38	1/4	584.78	1/4	242.71	1/4		1/4	1/4	1/4		1/4	
1/2	1,930.70	1/2	1,588.90	1/2	1,247.11	1/2	914.57	1/2	577.65	1/2	235.58	1/2		1/2	1/2	1/2		1/2	
3/4	1,923.57	3/4	1,581.78	3/4	1,239.99	3/4	907.76	3/4	570.53	3/4	228.44	3/4		3/4	3/4	3/4		3/4	
9	1,916.45	9	1,574.66	9	1,232.87	9	900.95	9	563.41	9	221.31	9	9	9	9	9		9	
1/4	1,909.33	1/4	1,567.54	1/4	1,225.75	1/4	894.14	1/4	556.29	1/4	214.18	1/4		1/4	1/4	1/4		1/4	
1/2	1,902.21	1/2	1,560.42	1/2	1,218.63	1/2	887.32	1/2	549.17	1/2	207.04	1/2		1/2	1/2	1/2		1/2	
3/4	1,895.09	3/4	1,553.30	3/4	1,211.50	3/4	880.51	3/4	542.04	3/4	199.91	3/4		3/4	3/4	3/4		3/4	
10	1,887.97	10	1,546.18	10	1,204.38	10	873.70	10	534.92	10	192.78	10	10	10	10	10		10	
1/4	1,880.85	1/4	1,539.06	1/4	1,197.26	1/4	866.89	1/4	527.80	1/4	185.64	1/4		1/4	1/4	1/4		1/4	
1/2	1,873.73	1/2	1,531.94	1/2	1,190.14	1/2	860.08	1/2	520.68	1/2	178.51	1/2		1/2	1/2	1/2		1/2	
3/4	1,866.61	3/4	1,524.82	3/4	1,183.02	3/4	853.27	3/4	513.56	3/4	171.37	3/4		3/4	3/4	3/4		3/4	
11	1,859.49	11	1,517.69	11	1,175.90	11	846.45	11	506.43	11	164.24	11	11	11	11	11		11	
1/4	1,852.37	1/4	1,510.57	1/4	1,168.78	1/4	839.63	1/4	499.31	1/4	157.11	1/4		1/4	1/4	1/4		1/4	
1/2	1,845.25	1/2	1,503.45	1/2	1,161.66	1/2	832.81	1/2	492.19	1/2	149.97	1/2		1/2	1/2	1/2		1/2	
3/4	1,838.13	3/4	1,496.33	3/4	1,154.54	3/4	825.99	3/4	485.07	3/4	142.84	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/15/2020 CL
CALCULATED: 07/16/2020 CL
PRINTED: 07/16/2020 JS

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2020



BARGE "HSM 3310"

formerly the

BARGE "FMT 3310"

3 STBD

ULLAGE TABLE

HERMETIC

GAUGE HEIGHT 16'-05"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	4,311.70	0	4,103.46	0	3,894.85	0	3,685.48	0	3,476.11	0	3,212.72	0	2,872.41	0	2,531.64
1/4		1/4		1/4	4,307.39	1/4	4,099.12	1/4	3,890.49	1/4	3,681.12	1/4	3,471.75	1/4	3,205.64	1/4	2,865.31	1/4	2,524.53
1/2		1/2		1/2	4,303.07	1/2	4,094.78	1/2	3,886.13	1/2	3,676.75	1/2	3,467.38	1/2	3,198.57	1/2	2,858.22	1/2	2,517.42
3/4		3/4		3/4	4,298.76	3/4	4,090.44	3/4	3,881.76	3/4	3,672.39	3/4	3,463.02	3/4	3,191.49	3/4	2,851.12	3/4	2,510.30
1		1		1	4,294.44	1	4,086.09	1	3,877.40	1	3,668.03	1	3,458.66	1	3,184.41	1	2,844.03	1	2,503.19
1/4		1/4		1/4	4,290.13	1/4	4,081.75	1/4	3,873.04	1/4	3,663.67	1/4	3,454.30	1/4	3,177.33	1/4	2,836.93	1/4	2,496.07
1/2		1/2		1/2	4,285.81	1/2	4,077.41	1/2	3,868.68	1/2	3,659.31	1/2	3,449.94	1/2	3,170.26	1/2	2,829.84	1/2	2,488.96
3/4		3/4		3/4	4,281.50	3/4	4,073.06	3/4	3,864.32	3/4	3,654.95	3/4	3,445.57	3/4	3,163.18	3/4	2,822.75	3/4	2,481.85
2		2		2	4,277.18	2	4,068.72	2	3,859.95	2	3,650.58	2	3,441.21	2	3,156.10	2	2,815.65	2	2,474.74
1/4		1/4		1/4	4,272.84	1/4	4,064.38	1/4	3,855.59	1/4	3,646.22	1/4	3,436.85	1/4	3,149.03	1/4	2,808.56	1/4	2,467.63
1/2		1/2		1/2	4,268.50	1/2	4,060.03	1/2	3,851.23	1/2	3,641.86	1/2	3,432.49	1/2	3,141.95	1/2	2,801.46	1/2	2,460.51
3/4		3/4		3/4	4,264.16	3/4	4,055.69	3/4	3,846.87	3/4	3,637.50	3/4	3,428.13	3/4	3,134.87	3/4	2,794.37	3/4	2,453.40
3		3		3	4,259.81	3	4,051.35	3	3,842.51	3	3,633.14	3	3,423.76	3	3,127.80	3	2,787.27	3	2,446.29
1/4		1/4		1/4	4,255.47	1/4	4,047.01	1/4	3,838.14	1/4	3,628.77	1/4	3,419.40	1/4	3,120.70	1/4	2,780.18	1/4	2,439.18
1/2		1/2		1/2	4,251.13	1/2	4,042.66	1/2	3,833.78	1/2	3,624.41	1/2	3,415.04	1/2	3,113.61	1/2	2,773.09	1/2	2,432.06
3/4		3/4		3/4	4,246.78	3/4	4,038.32	3/4	3,829.42	3/4	3,620.05	3/4	3,410.68	3/4	3,106.51	3/4	2,765.99	3/4	2,424.95
4		4		4	4,242.44	4	4,033.98	4	3,825.06	4	3,615.69	4	3,406.32	4	3,099.42	4	2,758.90	4	2,417.84
1/4		1/4		1/4	4,238.10	1/4	4,029.63	1/4	3,820.70	1/4	3,611.33	1/4	3,401.95	1/4	3,092.33	1/4	2,751.80	1/4	2,410.73
1/2		1/2		1/2	4,233.75	1/2	4,025.29	1/2	3,816.34	1/2	3,606.96	1/2	3,397.59	1/2	3,085.23	1/2	2,744.71	1/2	2,403.61
3/4		3/4		3/4	4,229.41	3/4	4,020.95	3/4	3,811.97	3/4	3,602.60	3/4	3,393.23	3/4	3,078.14	3/4	2,737.62	3/4	2,396.50
5		5		5	4,225.07	5	4,016.60	5	3,807.61	5	3,598.24	5	3,388.87	5	3,071.04	5	2,730.52	5	2,389.39
1/4		1/4		1/4	4,220.73	1/4	4,012.26	1/4	3,803.25	1/4	3,593.88	1/4	3,384.54	1/4	3,063.95	1/4	2,723.43	1/4	2,382.28
1/2		1/2		1/2	4,216.38	1/2	4,007.92	1/2	3,798.89	1/2	3,589.52	1/2	3,380.22	1/2	3,056.85	1/2	2,716.33	1/2	2,375.17
3/4		3/4		3/4	4,212.04	3/4	4,003.58	3/4	3,794.53	3/4	3,585.15	3/4	3,375.89	3/4	3,049.76	3/4	2,709.24	3/4	2,368.05
6		6	4,392.63	6	4,207.70	6	3,999.23	6	3,790.16	6	3,580.79	6	3,371.56	6	3,042.67	6	2,702.14	6	2,360.94
1/4		1/4	4,390.93	1/4	4,203.35	1/4	3,994.89	1/4	3,785.80	1/4	3,576.43	1/4	3,367.24	1/4	3,035.57	1/4	2,695.05	1/4	2,353.83
1/2		1/2	4,389.22	1/2	4,199.01	1/2	3,990.55	1/2	3,781.44	1/2	3,572.07	1/2	3,362.91	1/2	3,028.48	1/2	2,687.96	1/2	2,346.72
3/4		3/4	4,387.52	3/4	4,194.67	3/4	3,986.20	3/4	3,777.08	3/4	3,567.71	3/4	3,358.58	3/4	3,021.38	3/4	2,680.86	3/4	2,339.60
7		7	4,385.81	7	4,190.32	7	3,981.86	7	3,772.72	7	3,563.35	7	3,354.26	7	3,014.29	7	2,673.77	7	2,332.49
1/4		1/4	4,383.57	1/4	4,185.98	1/4	3,977.52	1/4	3,768.35	1/4	3,558.98	1/4	3,347.18	1/4	3,007.20	1/4	2,666.67	1/4	2,325.38
1/2		1/2	4,381.33	1/2	4,181.64	1/2	3,973.17	1/2	3,763.99	1/2	3,554.62	1/2	3,340.10	1/2	3,000.10	1/2	2,659.58	1/2	2,318.27
3/4		3/4	4,379.09	3/4	4,177.30	3/4	3,968.83	3/4	3,759.63	3/4	3,550.26	3/4	3,333.03	3/4	2,993.01	3/4	2,652.49	3/4	2,311.15
8		8	4,376.85	8	4,172.95	8	3,964.49	8	3,755.27	8	3,545.90	8	3,325.95	8	2,985.91	8	2,645.39	8	2,304.04
1/4		1/4	4,373.42	1/4	4,168.61	1/4	3,960.15	1/4	3,750.91	1/4	3,541.54	1/4	3,318.87	1/4	2,978.82	1/4	2,638.30	1/4	2,296.93
1/2		1/2	4,370.00	1/2	4,164.27	1/2	3,955.80	1/2	3,746.55	1/2	3,537.17	1/2	3,311.80	1/2	2,971.72	1/2	2,631.20	1/2	2,289.82
3/4		3/4	4,366.57	3/4	4,159.92	3/4	3,951.46	3/4	3,742.18	3/4	3,532.81	3/4	3,304.72	3/4	2,964.63	3/4	2,624.11	3/4	2,282.71
9		9	4,363.14	9	4,155.58	9	3,947.12	9	3,737.82	9	3,528.45	9	3,297.64	9	2,957.54	9	2,617.01	9	2,275.59
1/4		1/4	4,358.90	1/4	4,151.24	1/4	3,942.77	1/4	3,733.46	1/4	3,524.09	1/4	3,290.57	1/4	2,950.44	1/4	2,609.90	1/4	2,268.48
1/2		1/2	4,354.65	1/2	4,146.89	1/2	3,938.43	1/2	3,729.10	1/2	3,519.73	1/2	3,283.49	1/2	2,943.35	1/2	2,602.79	1/2	2,261.37
3/4		3/4	4,350.40	3/4	4,142.55	3/4	3,934.09	3/4	3,724.74	3/4	3,515.36	3/4	3,276.41	3/4	2,936.25	3/4	2,595.67	3/4	2,254.26
10		10	4,346.16	10	4,138.21	10	3,929.74	10	3,720.37	10	3,511.00	10	3,269.33	10	2,929.16	10	2,588.56	10	2,247.14
1/4		1/4	4,341.85	1/4	4,133.87	1/4	3,925.38	1/4	3,716.01	1/4	3,506.64	1/4	3,262.26	1/4	2,922.06	1/4	2,581.44	1/4	2,240.03
1/2		1/2	4,337.55	1/2	4,129.52	1/2	3,921.02	1/2	3,711.65	1/2	3,502.28	1/2	3,255.18	1/2	2,914.97	1/2	2,574.33	1/2	2,232.92
3/4		3/4	4,333.25	3/4	4,125.18	3/4	3,916.66	3/4	3,707.29	3/4	3,497.92	3/4	3,248.10	3/4	2,907.88	3/4	2,567.21	3/4	2,225.81
11		11	4,328.95	11	4,120.84	11	3,912.30	11	3,702.93	11	3,493.55	11	3,241.03	11	2,900.78	11	2,560.10	11	2,218.69
1/4		1/4	4,324.64	1/4	4,116.49	1/4	3,907.94	1/4	3,698.56	1/4	3,489.19	1/4	3,233.95	1/4	2,893.69	1/4	2,552.99	1/4	2,211.58
1/2		1/2	4,320.33	1/2	4,112.15	1/2	3,903.57	1/2	3,694.20	1/2	3,484.83	1/2	3,226.87	1/2	2,886.59	1/2	2,545.87	1/2	2,204.47
3/4		3/4	4,316.02	3/4	4,107.81	3/4	3,899.21	3/4	3,689.84	3/4	3,480.47	3/4	3,219.80	3/4	2,879.50	3/4	2,538.76	3/4	2,197.36

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 11'-06" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "HSM 3310"
formerly the
BARGE "FMT 3310"

3 STBD
ULLAGE TABLE
HERMETIC
GAUGE HEIGHT 16'-05"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,190.25	0	1,848.86	0	1,507.46	0	1,166.07	0	825.18	0	483.80	0	142.41	0		0			
1/4	2,183.13	1/4	1,841.74	1/4	1,500.35	1/4	1,158.96	1/4	818.07	1/4	476.69	1/4	135.30	1/4	1/4	1/4			
1/2	2,176.02	1/2	1,834.63	1/2	1,493.24	1/2	1,151.85	1/2	810.96	1/2	469.57	1/2	128.19	1/2	1/2	1/2			
3/4	2,168.91	3/4	1,827.52	3/4	1,486.13	3/4	1,144.74	3/4	803.85	3/4	462.46	3/4	121.08	3/4	3/4	3/4			
1	2,161.80	1	1,820.41	1	1,479.02	1	1,137.63	1	796.73	1	455.35	1	113.97	1	1	1			
1/4	2,154.68	1/4	1,813.29	1/4	1,471.90	1/4	1,130.51	1/4	789.62	1/4	448.24	1/4	106.87	1/4	1/4	1/4			
1/2	2,147.57	1/2	1,806.18	1/2	1,464.79	1/2	1,123.40	1/2	782.51	1/2	441.12	1/2	99.77	1/2	1/2	1/2			
3/4	2,140.46	3/4	1,799.07	3/4	1,457.68	3/4	1,116.29	3/4	775.40	3/4	434.01	3/4	92.66	3/4	3/4	3/4			
2	2,133.35	2	1,791.96	2	1,450.57	2	1,109.18	2	768.29	2	426.90	2	85.56	2	2	2			
1/4	2,126.23	1/4	1,784.84	1/4	1,443.45	1/4	1,102.07	1/4	761.17	1/4	419.79	1/4	78.49	1/4	1/4	1/4			
1/2	2,119.12	1/2	1,777.73	1/2	1,436.34	1/2	1,094.96	1/2	754.06	1/2	412.68	1/2	71.41	1/2	1/2	1/2			
3/4	2,112.01	3/4	1,770.62	3/4	1,429.23	3/4	1,087.86	3/4	746.95	3/4	405.56	3/4	64.33	3/4	3/4	3/4			
3	2,104.90	3	1,763.51	3	1,422.12	3	1,080.75	3	739.84	3	398.45	3	57.26	3	3	3			
1/4	2,097.79	1/4	1,756.40	1/4	1,415.00	1/4	1,073.65	1/4	732.72	1/4	391.34	1/4	51.04	1/4	1/4	1/4			
1/2	2,090.67	1/2	1,749.28	1/2	1,407.89	1/2	1,066.55	1/2	725.61	1/2	384.23	1/2	44.81	1/2	1/2	1/2			
3/4	2,083.56	3/4	1,742.17	3/4	1,400.78	3/4	1,059.46	3/4	718.50	3/4	377.11	3/4	38.59	3/4	3/4	3/4			
4	2,076.45	4	1,735.06	4	1,393.67	4	1,052.36	4	711.39	4	370.00	4	32.37	4	4	4			
1/4	2,069.34	1/4	1,727.95	1/4	1,386.56	1/4	1,045.26	1/4	704.28	1/4	362.89	1/4	27.93	1/4	1/4	1/4			
1/2	2,062.22	1/2	1,720.83	1/2	1,379.44	1/2	1,038.16	1/2	697.16	1/2	355.78	1/2	23.48	1/2	1/2	1/2			
3/4	2,055.11	3/4	1,713.72	3/4	1,372.33	3/4	1,031.06	3/4	690.05	3/4	348.67	3/4	19.04	3/4	3/4	3/4			
5	2,048.00	5	1,706.61	5	1,365.22	5	1,023.96	5	682.94	5	341.55	5	14.59	5	5	5			
1/4	2,040.89	1/4	1,699.50	1/4	1,358.11	1/4	1,016.86	1/4	675.83	1/4	334.44	1/4		1/4	1/4	1/4			
1/2	2,033.78	1/2	1,692.38	1/2	1,350.99	1/2	1,009.77	1/2	668.71	1/2	327.33	1/2		1/2	1/2	1/2			
3/4	2,026.66	3/4	1,685.27	3/4	1,343.88	3/4	1,002.67	3/4	661.60	3/4	320.22	3/4		3/4	3/4	3/4			
6	2,019.55	6	1,678.16	6	1,336.77	6	995.57	6	654.49	6	313.10	6		6	6	6			
1/4	2,012.44	1/4	1,671.05	1/4	1,329.66	1/4	988.47	1/4	647.38	1/4	305.99	1/4		1/4	1/4	1/4			
1/2	2,005.33	1/2	1,663.94	1/2	1,322.55	1/2	981.37	1/2	640.27	1/2	298.88	1/2		1/2	1/2	1/2			
3/4	1,998.21	3/4	1,656.82	3/4	1,315.43	3/4	974.27	3/4	633.15	3/4	291.77	3/4		3/4	3/4	3/4			
7	1,991.10	7	1,649.71	7	1,308.32	7	967.18	7	626.04	7	284.66	7		7	7	7			
1/4	1,983.99	1/4	1,642.60	1/4	1,301.21	1/4	960.08	1/4	618.93	1/4	277.54	1/4		1/4	1/4	1/4			
1/2	1,976.88	1/2	1,635.49	1/2	1,294.10	1/2	952.98	1/2	611.82	1/2	270.43	1/2		1/2	1/2	1/2			
3/4	1,969.76	3/4	1,628.37	3/4	1,286.98	3/4	945.88	3/4	604.71	3/4	263.32	3/4		3/4	3/4	3/4			
8	1,962.65	8	1,621.26	8	1,279.87	8	938.78	8	597.59	8	256.21	8		8	8	8			
1/4	1,955.54	1/4	1,614.15	1/4	1,272.76	1/4	931.68	1/4	590.48	1/4	249.10	1/4		1/4	1/4	1/4			
1/2	1,948.43	1/2	1,607.04	1/2	1,265.65	1/2	924.59	1/2	583.37	1/2	241.98	1/2		1/2	1/2	1/2			
3/4	1,941.32	3/4	1,599.92	3/4	1,258.53	3/4	917.49	3/4	576.26	3/4	234.87	3/4		3/4	3/4	3/4			
9	1,934.20	9	1,592.81	9	1,251.42	9	910.39	9	569.14	9	227.76	9		9	9	9			
1/4	1,927.09	1/4	1,585.70	1/4	1,244.31	1/4	903.29	1/4	562.03	1/4	220.65	1/4		1/4	1/4	1/4			
1/2	1,919.98	1/2	1,578.59	1/2	1,237.20	1/2	896.19	1/2	554.92	1/2	213.53	1/2		1/2	1/2	1/2			
3/4	1,912.87	3/4	1,571.48	3/4	1,230.09	3/4	889.10	3/4	547.81	3/4	206.42	3/4		3/4	3/4	3/4			
10	1,905.75	10	1,564.36	10	1,222.97	10	882.00	10	540.70	10	199.31	10		10	10	10			
1/4	1,898.64	1/4	1,557.25	1/4	1,215.86	1/4	874.90	1/4	533.58	1/4	192.20	1/4		1/4	1/4	1/4			
1/2	1,891.53	1/2	1,550.14	1/2	1,208.75	1/2	867.80	1/2	526.47	1/2	185.09	1/2		1/2	1/2	1/2			
3/4	1,884.42	3/4	1,543.03	3/4	1,201.64	3/4	860.70	3/4	519.36	3/4	177.97	3/4		3/4	3/4	3/4			
11	1,877.30	11	1,535.91	11	1,194.52	11	853.60	11	512.25	11	170.86	11		11	11	11			
1/4	1,870.19	1/4	1,528.80	1/4	1,187.41	1/4	846.50	1/4	505.13	1/4	163.75	1/4		1/4	1/4	1/4			
1/2	1,863.08	1/2	1,521.69	1/2	1,180.30	1/2	839.39	1/2	498.02	1/2	156.64	1/2		1/2	1/2	1/2			
3/4	1,855.97	3/4	1,514.58	3/4	1,173.19	3/4	832.29	3/4	490.91	3/4	149.52	3/4		3/4	3/4	3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/15/2020 CL
CALCULATED: 07/16/2020 CL
PRINTED: 07/16/2020 JS

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2020



BARGE "HSM 3310"

formerly the
BARGE "FMT 3310"
INNAGE (10" HATCH)

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	02-0/8	- 02-0/8	04-0/8	- 04-0/8	06-0/8	- 06-0/8	08-1/8	- 08-1/8	10-1/8	- 10-1/8	12-1/8	- 12-1/8
1 STBD	02-0/8	- 02-0/8	04-0/8	- 04-0/8	06-0/8	- 06-0/8	08-1/8	- 08-1/8	10-1/8	- 10-1/8	12-1/8	- 12-1/8
2 PORT	02-0/8	- 02-0/8	04-0/8	- 04-0/8	06-1/8	- 06-1/8	08-1/8	- 08-1/8	10-1/8	- 10-1/8	12-1/8	- 12-1/8
2 STBD	02-0/8	- 02-0/8	04-0/8	- 04-0/8	06-1/8	- 06-1/8	08-1/8	- 08-1/8	10-1/8	- 10-1/8	12-1/8	- 12-1/8
3 PORT	- 02-0/8	02-0/8	- 04-0/8	04-0/8	- 06-0/8	06-0/8	- 08-0/8	08-0/8	- 10-1/8	10-1/8	- 12-1/8	12-1/8
3 STBD	- 02-0/8	02-0/8	- 04-0/8	04-0/8	- 06-0/8	06-0/8	- 08-0/8	08-0/8	- 10-1/8	10-1/8	- 12-1/8	12-1/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 2'-00"
 AFT DRAFT = 6'-00"
 DIFF. = 4'-00" (DOWN BY STERN)

THE CORRECTION FOR 4'-00" TRIM DOWN BY STERN FOR 1 PORT IS - 08-1/8"
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED INNAGE IS 3'-03 7/8"

LENGTH BETWEEN DRAFT MARKS: 237'-03"

July 15, 2020

**PRECISION MEASUREMENT
 & ANALYSIS, INC.**

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HSM 3310"

formerly the

BARGE "FMT 3310"

1 PORT INNAGE TABLE

10" HATCH GAUGE HEIGHT 18'-02 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	2.15	0	252.23	0	583.24	0	924.96	0	1,266.94	0	1,610.10	0	1,953.27	0	2,296.44	0	2,639.61	0	2,982.75
1/4	3.94	1/4	258.71	1/4	590.39	1/4	932.05	1/4	1,274.09	1/4	1,617.25	1/4	1,960.42	1/4	2,303.58	1/4	2,646.75	1/4	2,989.90
1/2	5.73	1/2	265.19	1/2	597.54	1/2	939.14	1/2	1,281.23	1/2	1,624.40	1/2	1,967.57	1/2	2,310.73	1/2	2,653.90	1/2	2,997.05
3/4	7.52	3/4	271.67	3/4	604.68	3/4	946.23	3/4	1,288.38	3/4	1,631.55	3/4	1,974.72	3/4	2,317.88	3/4	2,661.05	3/4	3,004.20
1	9.30	1	278.16	1	611.83	1	953.32	1	1,295.53	1	1,638.70	1	1,981.87	1	2,325.03	1	2,668.20	1	3,011.34
1/4	12.11	1/4	284.72	1/4	618.98	1/4	960.41	1/4	1,302.68	1/4	1,645.85	1/4	1,989.02	1/4	2,332.18	1/4	2,675.35	1/4	3,018.49
1/2	14.91	1/2	291.28	1/2	626.13	1/2	967.49	1/2	1,309.83	1/2	1,653.00	1/2	1,996.16	1/2	2,339.33	1/2	2,682.50	1/2	3,025.64
3/4	17.71	3/4	297.85	3/4	633.28	3/4	974.58	3/4	1,316.98	3/4	1,660.15	3/4	2,003.31	3/4	2,346.48	3/4	2,689.65	3/4	3,032.79
2	20.51	2	304.41	2	640.43	2	981.67	2	1,324.13	2	1,667.30	2	2,010.46	2	2,353.63	2	2,696.80	2	3,039.93
1/4	24.37	1/4	311.06	1/4	647.58	1/4	988.76	1/4	1,331.28	1/4	1,674.45	1/4	2,017.61	1/4	2,360.78	1/4	2,703.95	1/4	3,047.08
1/2	28.22	1/2	317.71	1/2	654.73	1/2	995.85	1/2	1,338.43	1/2	1,681.60	1/2	2,024.76	1/2	2,367.93	1/2	2,711.09	1/2	3,054.23
3/4	32.08	3/4	324.36	3/4	661.88	3/4	1,002.94	3/4	1,345.58	3/4	1,688.74	3/4	2,031.91	3/4	2,375.08	3/4	2,718.24	3/4	3,061.37
3	35.94	3	331.01	3	669.03	3	1,010.03	3	1,352.73	3	1,695.89	3	2,039.06	3	2,382.23	3	2,725.39	3	3,068.52
1/4	41.20	1/4	337.74	1/4	676.18	1/4	1,017.12	1/4	1,359.88	1/4	1,703.04	1/4	2,046.21	1/4	2,389.38	1/4	2,732.54	1/4	3,075.67
1/2	46.47	1/2	344.47	1/2	683.32	1/2	1,024.21	1/2	1,367.03	1/2	1,710.19	1/2	2,053.36	1/2	2,396.53	1/2	2,739.69	1/2	3,082.81
3/4	51.73	3/4	351.20	3/4	690.47	3/4	1,031.31	3/4	1,374.18	3/4	1,717.34	3/4	2,060.51	3/4	2,403.67	3/4	2,746.84	3/4	3,089.96
4	56.99	4	357.93	4	697.62	4	1,038.40	4	1,381.32	4	1,724.49	4	2,067.66	4	2,410.82	4	2,753.99	4	3,097.11
1/4	62.78	1/4	364.75	1/4	704.77	1/4	1,045.51	1/4	1,388.47	1/4	1,731.64	1/4	2,074.81	1/4	2,417.97	1/4	2,761.14	1/4	3,104.26
1/2	68.57	1/2	371.56	1/2	711.92	1/2	1,052.61	1/2	1,395.62	1/2	1,738.79	1/2	2,081.96	1/2	2,425.12	1/2	2,768.28	1/2	3,111.40
3/4	74.36	3/4	378.38	3/4	719.07	3/4	1,059.72	3/4	1,402.77	3/4	1,745.94	3/4	2,089.11	3/4	2,432.27	3/4	2,775.43	3/4	3,118.55
5	80.15	5	385.19	5	726.22	5	1,066.82	5	1,409.92	5	1,753.09	5	2,096.25	5	2,439.42	5	2,782.58	5	3,125.70
1/4	86.04	1/4	392.09	1/4	733.35	1/4	1,073.96	1/4	1,417.07	1/4	1,760.24	1/4	2,103.40	1/4	2,446.57	1/4	2,789.73	1/4	3,132.84
1/2	91.93	1/2	398.99	1/2	740.48	1/2	1,081.09	1/2	1,424.22	1/2	1,767.39	1/2	2,110.55	1/2	2,453.72	1/2	2,796.88	1/2	3,139.99
3/4	97.82	3/4	405.89	3/4	747.61	3/4	1,088.22	3/4	1,431.37	3/4	1,774.54	3/4	2,117.70	3/4	2,460.87	3/4	2,804.03	3/4	3,147.14
6	103.71	6	412.79	6	754.75	6	1,095.35	6	1,438.52	6	1,781.69	6	2,124.85	6	2,468.02	6	2,811.18	6	3,154.28
1/4	109.69	1/4	419.77	1/4	761.85	1/4	1,102.50	1/4	1,445.67	1/4	1,788.84	1/4	2,132.00	1/4	2,475.17	1/4	2,818.33	1/4	3,161.43
1/2	115.67	1/2	426.74	1/2	768.96	1/2	1,109.65	1/2	1,452.82	1/2	1,795.98	1/2	2,139.15	1/2	2,482.32	1/2	2,825.47	1/2	3,168.58
3/4	121.65	3/4	433.72	3/4	776.06	3/4	1,116.80	3/4	1,459.97	3/4	1,803.13	3/4	2,146.30	3/4	2,489.47	3/4	2,832.62	3/4	3,175.73
7	127.63	7	440.70	7	783.17	7	1,123.95	7	1,467.12	7	1,810.28	7	2,153.45	7	2,496.62	7	2,839.77	7	3,182.87
1/4	133.69	1/4	447.76	1/4	790.26	1/4	1,131.10	1/4	1,474.27	1/4	1,817.43	1/4	2,160.60	1/4	2,503.77	1/4	2,846.92	1/4	3,190.02
1/2	139.75	1/2	454.82	1/2	797.36	1/2	1,138.25	1/2	1,481.42	1/2	1,824.58	1/2	2,167.75	1/2	2,510.91	1/2	2,854.07	1/2	3,197.17
3/4	145.82	3/4	461.88	3/4	804.45	3/4	1,145.40	3/4	1,488.56	3/4	1,831.73	3/4	2,174.90	3/4	2,518.06	3/4	2,861.22	3/4	3,204.31
8	151.88	8	468.95	8	811.54	8	1,152.55	8	1,495.71	8	1,838.88	8	2,182.05	8	2,525.21	8	2,868.37	8	3,211.46
1/4	158.03	1/4	476.07	1/4	818.63	1/4	1,159.70	1/4	1,502.86	1/4	1,846.03	1/4	2,189.20	1/4	2,532.36	1/4	2,875.52	1/4	3,218.61
1/2	164.17	1/2	483.20	1/2	825.72	1/2	1,166.85	1/2	1,510.01	1/2	1,853.18	1/2	2,196.35	1/2	2,539.51	1/2	2,882.67	1/2	3,225.75
3/4	170.32	3/4	490.32	3/4	832.81	3/4	1,174.00	3/4	1,517.16	3/4	1,860.33	3/4	2,203.49	3/4	2,546.66	3/4	2,889.81	3/4	3,232.90
9	176.47	9	497.45	9	839.90	9	1,181.14	9	1,524.31	9	1,867.48	9	2,210.64	9	2,553.81	9	2,896.96	9	3,240.05
1/4	182.70	1/4	504.60	1/4	846.98	1/4	1,188.29	1/4	1,531.46	1/4	1,874.63	1/4	2,217.79	1/4	2,560.96	1/4	2,904.11	1/4	3,247.20
1/2	188.93	1/2	511.75	1/2	854.07	1/2	1,195.44	1/2	1,538.61	1/2	1,881.78	1/2	2,224.94	1/2	2,568.11	1/2	2,911.26	1/2	3,254.34
3/4	195.16	3/4	518.90	3/4	861.16	3/4	1,202.59	3/4	1,545.76	3/4	1,888.93	3/4	2,232.09	3/4	2,575.26	3/4	2,918.41	3/4	3,261.49
10	201.39	10	526.04	10	868.25	10	1,209.74	10	1,552.91	10	1,896.07	10	2,239.24	10	2,582.41	10	2,925.56	10	3,268.64
1/4	207.70	1/4	533.19	1/4	875.34	1/4	1,216.89	1/4	1,560.06	1/4	1,903.22	1/4	2,246.39	1/4	2,589.56	1/4	2,932.71	1/4	3,275.78
1/2	214.01	1/2	540.34	1/2	882.43	1/2	1,224.04	1/2	1,567.21	1/2	1,910.37	1/2	2,253.54	1/2	2,596.71	1/2	2,939.86	1/2	3,282.93
3/4	220.33	3/4	547.49	3/4	889.52	3/4	1,231.19	3/4	1,574.36	3/4	1,917.52	3/4	2,260.69	3/4	2,603.86	3/4	2,947.00	3/4	3,290.08
11	226.64	11	554.64	11	896.61	11	1,238.34	11	1,581.51	11	1,924.67	11	2,267.84	11	2,611.00	11	2,954.15	11	3,297.22
1/4	233.04	1/4	561.79	1/4	903.69	1/4	1,245.49	1/4	1,588.65	1/4	1,931.82	1/4	2,274.99	1/4	2,618.15	1/4	2,961.30	1/4	3,304.37
1/2	239.44	1/2	568.94	1/2	910.78	1/2	1,252.64	1/2	1,595.80	1/2	1,938.97	1/2	2,282.14	1/2	2,625.31	1/2	2,968.45	1/2	3,311.52
3/4	245.83	3/4	576.09	3/4	917.87	3/4	1,259.79	3/4	1,602.95	3/4	1,946.12	3/4	2,289.29	3/4	2,632.46	3/4	2,975.60	3/4	3,318.67

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME.
 GAUGE POINT: (10" HATCH) LOCATED 3'-03" OFF CENTERLINE AND 3'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "HSM 3310"

formerly the
BARGE "FMT 3310"

1 PORT
INNAGE TABLE
10" HATCH
GAUGE HEIGHT 18'-02 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,325.81	0	3,668.87	0	4,012.02	0	4,354.71	0	4,696.29	0	5,017.71	0		0		0		0	
1/4	3,332.96	1/4	3,676.02	1/4	4,019.17	1/4	4,361.83	1/4	4,703.41	1/4	5,020.91	1/4		1/4	1/4	1/4		1/4	
1/2	3,340.11	1/2	3,683.17	1/2	4,026.32	1/2	4,368.94	1/2	4,710.52	1/2	5,024.11	1/2		1/2	1/2	1/2		1/2	
3/4	3,347.25	3/4	3,690.32	3/4	4,033.47	3/4	4,376.06	3/4	4,717.64	3/4	5,027.31	3/4		3/4	3/4	3/4		3/4	
1	3,354.40	1	3,697.47	1	4,040.62	1	4,383.17	1	4,724.76	1	5,030.51	1		1		1		1	
1/4	3,361.55	1/4	3,704.62	1/4	4,047.77	1/4	4,390.29	1/4	4,731.87	1/4	5,032.52	1/4		1/4	1/4	1/4		1/4	
1/2	3,368.69	1/2	3,711.77	1/2	4,054.92	1/2	4,397.41	1/2	4,738.99	1/2	5,034.52	1/2		1/2	1/2	1/2		1/2	
3/4	3,375.84	3/4	3,718.91	3/4	4,062.07	3/4	4,404.52	3/4	4,746.11	3/4	5,036.53	3/4		3/4	3/4	3/4		3/4	
2	3,382.99	2	3,726.06	2	4,069.22	2	4,411.64	2	4,753.22	2	5,038.54	2		2		2		2	
1/4	3,390.14	1/4	3,733.21	1/4	4,076.36	1/4	4,418.76	1/4	4,760.34	1/4	5,039.47	1/4		1/4	1/4	1/4		1/4	
1/2	3,397.28	1/2	3,740.36	1/2	4,083.51	1/2	4,425.87	1/2	4,767.45	1/2	5,040.40	1/2		1/2	1/2	1/2		1/2	
3/4	3,404.43	3/4	3,747.51	3/4	4,090.66	3/4	4,432.99	3/4	4,774.57	3/4	5,041.32	3/4		3/4	3/4	3/4		3/4	
3	3,411.58	3	3,754.66	3	4,097.81	3	4,440.10	3	4,781.69	3	5,042.25	3		3		3		3	
1/4	3,418.72	1/4	3,761.81	1/4	4,104.96	1/4	4,447.22	1/4	4,788.80	1/4		1/4		1/4	1/4	1/4		1/4	
1/2	3,425.87	1/2	3,768.96	1/2	4,112.11	1/2	4,454.34	1/2	4,795.92	1/2		1/2		1/2	1/2	1/2		1/2	
3/4	3,433.02	3/4	3,776.11	3/4	4,119.26	3/4	4,461.45	3/4	4,803.04	3/4		3/4		3/4	3/4	3/4		3/4	
4	3,440.16	4	3,783.26	4	4,126.41	4	4,468.57	4	4,810.15	4		4		4		4		4	
1/4	3,447.31	1/4	3,790.40	1/4	4,133.56	1/4	4,475.69	1/4	4,817.24	1/4		1/4		1/4	1/4	1/4		1/4	
1/2	3,454.46	1/2	3,797.55	1/2	4,140.71	1/2	4,482.80	1/2	4,824.34	1/2		1/2		1/2	1/2	1/2		1/2	
3/4	3,461.61	3/4	3,804.70	3/4	4,147.85	3/4	4,489.92	3/4	4,831.43	3/4		3/4		3/4	3/4	3/4		3/4	
5	3,468.75	5	3,811.85	5	4,155.00	5	4,497.04	5	4,838.52	5		5		5		5		5	
1/4	3,475.90	1/4	3,819.00	1/4	4,162.15	1/4	4,504.15	1/4	4,845.59	1/4		1/4		1/4	1/4	1/4		1/4	
1/2	3,483.05	1/2	3,826.15	1/2	4,169.30	1/2	4,511.27	1/2	4,852.66	1/2		1/2		1/2	1/2	1/2		1/2	
3/4	3,490.19	3/4	3,833.30	3/4	4,176.45	3/4	4,518.38	3/4	4,859.74	3/4		3/4		3/4	3/4	3/4		3/4	
6	3,497.34	6	3,840.45	6	4,183.60	6	4,525.50	6	4,866.81	6		6		6		6		6	
1/4	3,504.49	1/4	3,847.60	1/4	4,190.75	1/4	4,532.62	1/4	4,873.88	1/4		1/4		1/4	1/4	1/4		1/4	
1/2	3,511.63	1/2	3,854.75	1/2	4,197.90	1/2	4,539.73	1/2	4,880.95	1/2		1/2		1/2	1/2	1/2		1/2	
3/4	3,518.78	3/4	3,861.89	3/4	4,205.05	3/4	4,546.85	3/4	4,888.02	3/4		3/4		3/4	3/4	3/4		3/4	
7	3,525.93	7	3,869.04	7	4,212.20	7	4,553.97	7	4,895.09	7		7		7		7		7	
1/4	3,533.08	1/4	3,876.19	1/4	4,219.34	1/4	4,561.08	1/4	4,902.16	1/4		1/4		1/4	1/4	1/4		1/4	
1/2	3,540.22	1/2	3,883.34	1/2	4,226.49	1/2	4,568.20	1/2	4,909.22	1/2		1/2		1/2	1/2	1/2		1/2	
3/4	3,547.37	3/4	3,890.49	3/4	4,233.64	3/4	4,575.31	3/4	4,916.28	3/4		3/4		3/4	3/4	3/4		3/4	
8	3,554.52	8	3,897.64	8	4,240.79	8	4,582.43	8	4,923.35	8		8		8		8		8	
1/4	3,561.66	1/4	3,904.79	1/4	4,247.92	1/4	4,589.55	1/4	4,930.38	1/4		1/4		1/4	1/4	1/4		1/4	
1/2	3,568.81	1/2	3,911.94	1/2	4,255.05	1/2	4,596.66	1/2	4,937.41	1/2		1/2		1/2	1/2	1/2		1/2	
3/4	3,575.96	3/4	3,919.09	3/4	4,262.18	3/4	4,603.78	3/4	4,944.44	3/4		3/4		3/4	3/4	3/4		3/4	
9	3,583.10	9	3,926.24	9	4,269.31	9	4,610.90	9	4,951.47	9		9		9		9		9	
1/4	3,590.25	1/4	3,933.38	1/4	4,276.43	1/4	4,618.01	1/4	4,958.06	1/4		1/4		1/4	1/4	1/4		1/4	
1/2	3,597.40	1/2	3,940.53	1/2	4,283.55	1/2	4,625.13	1/2	4,964.65	1/2		1/2		1/2	1/2	1/2		1/2	
3/4	3,604.55	3/4	3,947.68	3/4	4,290.66	3/4	4,632.24	3/4	4,971.24	3/4		3/4		3/4	3/4	3/4		3/4	
10	3,611.69	10	3,954.83	10	4,297.78	10	4,639.36	10	4,977.83	10		10		10		10		10	
1/4	3,618.84	1/4	3,961.98	1/4	4,304.90	1/4	4,646.48	1/4	4,983.41	1/4		1/4		1/4	1/4	1/4		1/4	
1/2	3,625.98	1/2	3,969.13	1/2	4,312.01	1/2	4,653.59	1/2	4,988.99	1/2		1/2		1/2	1/2	1/2		1/2	
3/4	3,633.13	3/4	3,976.28	3/4	4,319.13	3/4	4,660.71	3/4	4,994.57	3/4		3/4		3/4	3/4	3/4		3/4	
11	3,640.28	11	3,983.43	11	4,326.24	11	4,667.83	11	5,000.15	11		11		11		11		11	
1/4	3,647.42	1/4	3,990.58	1/4	4,333.36	1/4	4,674.94	1/4	5,004.54	1/4		1/4		1/4	1/4	1/4		1/4	
1/2	3,654.57	1/2	3,997.73	1/2	4,340.48	1/2	4,682.06	1/2	5,008.93	1/2		1/2		1/2	1/2	1/2		1/2	
3/4	3,661.72	3/4	4,004.87	3/4	4,347.59	3/4	4,689.18	3/4	5,013.32	3/4		3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/15/2020 CL
CALCULATED: 07/16/2020 CL
PRINTED: 07/16/2020 JS

PRECISION MEASUREMENT
& ANALYSIS, INC.

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

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2020



BARGE "HSM 3310"

formerly the
BARGE "FMT 3310"

**1 STBD
INNAGE TABLE**

**10" HATCH
GAUGE HEIGHT 18'-02"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	2.15	0	251.90	0	582.56	0	925.16	0	1,267.80	0	1,610.57	0	1,953.35	0	2,296.12	0	2,638.89	0	2,981.64
1/4	3.94	1/4	258.37	1/4	589.70	1/4	932.29	1/4	1,274.94	1/4	1,617.72	1/4	1,960.49	1/4	2,303.26	1/4	2,646.03	1/4	2,988.78
1/2	5.72	1/2	264.85	1/2	596.84	1/2	939.42	1/2	1,282.08	1/2	1,624.86	1/2	1,967.63	1/2	2,310.40	1/2	2,653.17	1/2	2,995.92
3/4	7.51	3/4	271.32	3/4	603.98	3/4	946.55	3/4	1,289.22	3/4	1,632.00	3/4	1,974.77	3/4	2,317.54	3/4	2,660.31	3/4	3,003.06
1	9.29	1	277.79	1	611.12	1	953.68	1	1,296.37	1	1,639.14	1	1,981.91	1	2,324.68	1	2,667.45	1	3,010.20
1/4	12.09	1/4	284.35	1/4	618.26	1/4	960.82	1/4	1,303.51	1/4	1,646.28	1/4	1,989.05	1/4	2,331.83	1/4	2,674.59	1/4	3,017.33
1/2	14.89	1/2	290.91	1/2	625.40	1/2	967.95	1/2	1,310.65	1/2	1,653.42	1/2	1,996.19	1/2	2,338.97	1/2	2,681.73	1/2	3,024.47
3/4	17.69	3/4	297.46	3/4	632.54	3/4	975.08	3/4	1,317.79	3/4	1,660.56	3/4	2,003.33	3/4	2,346.11	3/4	2,688.87	3/4	3,031.61
2	20.48	2	304.02	2	639.68	2	982.21	2	1,324.93	2	1,667.70	2	2,010.48	2	2,353.25	2	2,695.01	2	3,038.75
1/4	24.34	1/4	310.66	1/4	646.82	1/4	989.35	1/4	1,332.07	1/4	1,674.84	1/4	2,017.62	1/4	2,360.39	1/4	2,703.15	1/4	3,045.89
1/2	28.19	1/2	317.30	1/2	653.96	1/2	996.48	1/2	1,339.21	1/2	1,681.99	1/2	2,024.76	1/2	2,367.53	1/2	2,710.29	1/2	3,053.03
3/4	32.04	3/4	323.94	3/4	661.11	3/4	1,003.61	3/4	1,346.35	3/4	1,689.13	3/4	2,031.90	3/4	2,374.67	3/4	2,717.43	3/4	3,060.17
3	35.89	3	330.58	3	668.25	3	1,010.74	3	1,353.49	3	1,696.27	3	2,039.04	3	2,381.81	3	2,724.57	3	3,067.31
1/4	41.15	1/4	337.30	1/4	675.39	1/4	1,017.88	1/4	1,360.64	1/4	1,703.41	1/4	2,046.18	1/4	2,388.95	1/4	2,731.71	1/4	3,074.44
1/2	46.40	1/2	344.03	1/2	682.53	1/2	1,025.01	1/2	1,367.78	1/2	1,710.55	1/2	2,053.32	1/2	2,396.10	1/2	2,738.85	1/2	3,081.58
3/4	51.66	3/4	350.75	3/4	689.67	3/4	1,032.15	3/4	1,374.92	3/4	1,717.69	3/4	2,060.46	3/4	2,403.24	3/4	2,746.00	3/4	3,088.72
4	56.92	4	357.47	4	696.81	4	1,039.29	4	1,382.06	4	1,724.83	4	2,067.60	4	2,410.38	4	2,753.14	4	3,095.86
1/4	62.70	1/4	364.28	1/4	703.95	1/4	1,046.43	1/4	1,389.20	1/4	1,731.97	1/4	2,074.75	1/4	2,417.52	1/4	2,760.28	1/4	3,103.00
1/2	68.48	1/2	371.09	1/2	711.09	1/2	1,053.57	1/2	1,396.34	1/2	1,739.11	1/2	2,081.89	1/2	2,424.66	1/2	2,767.42	1/2	3,110.14
3/4	74.26	3/4	377.89	3/4	718.23	3/4	1,060.71	3/4	1,403.48	3/4	1,746.26	3/4	2,089.03	3/4	2,431.80	3/4	2,774.56	3/4	3,117.28
5	80.04	5	384.70	5	725.37	5	1,067.85	5	1,410.62	5	1,753.40	5	2,096.17	5	2,438.94	5	2,781.70	5	3,124.42
1/4	85.92	1/4	391.59	1/4	732.51	1/4	1,074.99	1/4	1,417.76	1/4	1,760.54	1/4	2,103.31	1/4	2,446.08	1/4	2,788.84	1/4	3,131.55
1/2	91.81	1/2	398.48	1/2	739.66	1/2	1,082.13	1/2	1,424.91	1/2	1,767.68	1/2	2,110.45	1/2	2,453.22	1/2	2,795.98	1/2	3,138.69
3/4	97.69	3/4	405.37	3/4	746.80	3/4	1,089.27	3/4	1,432.05	3/4	1,774.82	3/4	2,117.59	3/4	2,460.37	3/4	2,803.12	3/4	3,145.83
6	103.57	6	412.26	6	753.94	6	1,096.42	6	1,439.19	6	1,781.96	6	2,124.73	6	2,467.51	6	2,810.26	6	3,152.97
1/4	109.54	1/4	419.23	1/4	761.08	1/4	1,103.56	1/4	1,446.33	1/4	1,789.10	1/4	2,131.87	1/4	2,474.65	1/4	2,817.40	1/4	3,160.11
1/2	115.51	1/2	426.21	1/2	768.22	1/2	1,110.70	1/2	1,453.47	1/2	1,796.24	1/2	2,139.02	1/2	2,481.79	1/2	2,824.54	1/2	3,167.25
3/4	121.48	3/4	433.18	3/4	775.36	3/4	1,117.84	3/4	1,460.61	3/4	1,803.38	3/4	2,146.16	3/4	2,488.93	3/4	2,831.68	3/4	3,174.39
7	127.46	7	440.16	7	782.50	7	1,124.98	7	1,467.75	7	1,810.53	7	2,153.30	7	2,496.07	7	2,838.82	7	3,181.52
1/4	133.51	1/4	447.21	1/4	789.63	1/4	1,132.12	1/4	1,474.89	1/4	1,817.67	1/4	2,160.44	1/4	2,503.21	1/4	2,845.96	1/4	3,188.66
1/2	139.57	1/2	454.27	1/2	796.77	1/2	1,139.26	1/2	1,482.03	1/2	1,824.81	1/2	2,167.58	1/2	2,510.35	1/2	2,853.10	1/2	3,195.80
3/4	145.62	3/4	461.33	3/4	803.91	3/4	1,146.40	3/4	1,489.18	3/4	1,831.95	3/4	2,174.72	3/4	2,517.49	3/4	2,860.25	3/4	3,202.94
8	151.68	8	468.39	8	811.04	8	1,153.54	8	1,496.32	8	1,839.09	8	2,181.86	8	2,524.64	8	2,867.39	8	3,210.08
1/4	157.82	1/4	475.51	1/4	818.17	1/4	1,160.69	1/4	1,503.46	1/4	1,846.23	1/4	2,189.00	1/4	2,531.78	1/4	2,874.53	1/4	3,217.22
1/2	163.95	1/2	482.63	1/2	825.31	1/2	1,167.83	1/2	1,510.60	1/2	1,853.37	1/2	2,196.14	1/2	2,538.92	1/2	2,881.67	1/2	3,224.36
3/4	170.09	3/4	489.74	3/4	832.44	3/4	1,174.97	3/4	1,517.74	3/4	1,860.51	3/4	2,203.29	3/4	2,546.06	3/4	2,888.81	3/4	3,231.50
9	176.23	9	496.86	9	839.57	9	1,182.11	9	1,524.88	9	1,867.65	9	2,210.43	9	2,553.20	9	2,895.95	9	3,238.63
1/4	182.45	1/4	504.01	1/4	846.70	1/4	1,189.25	1/4	1,532.02	1/4	1,874.80	1/4	2,217.57	1/4	2,560.34	1/4	2,903.09	1/4	3,245.77
1/2	188.68	1/2	511.15	1/2	853.83	1/2	1,196.39	1/2	1,539.16	1/2	1,881.94	1/2	2,224.71	1/2	2,567.48	1/2	2,910.23	1/2	3,252.91
3/4	194.90	3/4	518.29	3/4	860.97	3/4	1,203.53	3/4	1,546.30	3/4	1,889.08	3/4	2,231.85	3/4	2,574.62	3/4	2,917.37	3/4	3,260.05
10	201.12	10	525.43	10	868.10	10	1,210.67	10	1,553.45	10	1,896.22	10	2,238.99	10	2,581.76	10	2,924.51	10	3,267.19
1/4	207.43	1/4	532.57	1/4	875.23	1/4	1,217.81	1/4	1,560.59	1/4	1,903.36	1/4	2,246.13	1/4	2,588.91	1/4	2,931.65	1/4	3,274.33
1/2	213.73	1/2	539.71	1/2	882.36	1/2	1,224.96	1/2	1,567.73	1/2	1,910.50	1/2	2,253.27	1/2	2,596.05	1/2	2,938.79	1/2	3,281.47
3/4	220.04	3/4	546.85	3/4	889.49	3/4	1,232.10	3/4	1,574.87	3/4	1,917.64	3/4	2,260.41	3/4	2,603.19	3/4	2,945.93	3/4	3,288.61
11	226.34	11	553.99	11	896.63	11	1,239.24	11	1,582.01	11	1,924.78	11	2,267.56	11	2,610.33	11	2,953.07	11	3,295.74
1/4	232.73	1/4	561.13	1/4	903.76	1/4	1,246.38	1/4	1,589.15	1/4	1,931.92	1/4	2,274.70	1/4	2,617.47	1/4	2,960.21	1/4	3,302.88
1/2	239.12	1/2	568.27	1/2	910.89	1/2	1,253.52	1/2	1,596.29	1/2	1,939.07	1/2	2,281.84	1/2	2,624.61	1/2	2,967.35	1/2	3,310.02
3/4	245.51	3/4	575.41	3/4	918.02	3/4	1,260.66	3/4	1,603.43	3/4	1,946.21	3/4	2,288.98	3/4	2,631.75	3/4	2,974.49	3/4	3,317.16

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME.
 GAUGE POINT: (10" HATCH) LOCATED 3'-03" OFF CENTERLINE AND 3'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "HSM 3310"

formerly the
BARGE "FMT 3310"

1 STBD
INNAGE TABLE
10" HATCH
GAUGE HEIGHT 18'-02"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,324.30	0	3,666.96	0	4,009.72	0	4,352.01	0	4,693.19	0	5,014.24	0		0		0		0	
1/4	3,331.44	1/4	3,674.10	1/4	4,016.86	1/4	4,359.12	1/4	4,700.30	1/4	5,017.44	1/4		1/4		1/4		1/4	
1/2	3,338.58	1/2	3,681.25	1/2	4,024.00	1/2	4,366.23	1/2	4,707.41	1/2	5,020.63	1/2		1/2		1/2		1/2	
3/4	3,345.71	3/4	3,688.39	3/4	4,031.14	3/4	4,373.33	3/4	4,714.52	3/4	5,023.83	3/4		3/4		3/4		3/4	
1	3,352.85	1	3,695.53	1	4,038.28	1	4,380.44	1	4,721.63	1	5,027.02	1		1		1		1	
1/4	3,359.99	1/4	3,702.67	1/4	4,045.42	1/4	4,387.55	1/4	4,728.73	1/4	5,029.03	1/4		1/4		1/4		1/4	
1/2	3,367.13	1/2	3,709.81	1/2	4,052.56	1/2	4,394.66	1/2	4,735.84	1/2	5,031.03	1/2		1/2		1/2		1/2	
3/4	3,374.27	3/4	3,716.95	3/4	4,059.70	3/4	4,401.77	3/4	4,742.95	3/4	5,033.04	3/4		3/4		3/4		3/4	
2	3,381.41	2	3,724.09	2	4,066.84	2	4,408.87	2	4,750.06	2	5,035.04	2		2		2		2	
1/4	3,388.55	1/4	3,731.23	1/4	4,073.98	1/4	4,415.98	1/4	4,757.17	1/4	5,035.97	1/4		1/4		1/4		1/4	
1/2	3,395.69	1/2	3,738.37	1/2	4,081.12	1/2	4,423.09	1/2	4,764.27	1/2	5,036.90	1/2		1/2		1/2		1/2	
3/4	3,402.82	3/4	3,745.51	3/4	4,088.27	3/4	4,430.20	3/4	4,771.38	3/4	5,037.83	3/4		3/4		3/4		3/4	
3	3,409.96	3	3,752.65	3	4,095.41	3	4,437.31	3	4,778.49	3	5,038.75	3		3		3		3	
1/4	3,417.10	1/4	3,759.79	1/4	4,102.55	1/4	4,444.41	1/4	4,785.60	1/4		1/4		1/4		1/4		1/4	
1/2	3,424.24	1/2	3,766.93	1/2	4,109.69	1/2	4,451.52	1/2	4,792.71	1/2		1/2		1/2		1/2		1/2	
3/4	3,431.38	3/4	3,774.07	3/4	4,116.83	3/4	4,458.63	3/4	4,799.81	3/4		3/4		3/4		3/4		3/4	
4	3,438.52	4	3,781.22	4	4,123.97	4	4,465.74	4	4,806.92	4		4		4		4		4	
1/4	3,445.66	1/4	3,788.36	1/4	4,131.11	1/4	4,472.85	1/4	4,814.01	1/4		1/4		1/4		1/4		1/4	
1/2	3,452.80	1/2	3,795.50	1/2	4,138.25	1/2	4,479.95	1/2	4,821.09	1/2		1/2		1/2		1/2		1/2	
3/4	3,459.93	3/4	3,802.64	3/4	4,145.39	3/4	4,487.06	3/4	4,828.18	3/4		3/4		3/4		3/4		3/4	
5	3,467.07	5	3,809.78	5	4,152.53	5	4,494.17	5	4,835.26	5		5		5		5		5	
1/4	3,474.21	1/4	3,816.92	1/4	4,159.67	1/4	4,501.28	1/4	4,842.33	1/4		1/4		1/4		1/4		1/4	
1/2	3,481.35	1/2	3,824.06	1/2	4,166.81	1/2	4,508.39	1/2	4,849.39	1/2		1/2		1/2		1/2		1/2	
3/4	3,488.49	3/4	3,831.20	3/4	4,173.95	3/4	4,515.49	3/4	4,856.45	3/4		3/4		3/4		3/4		3/4	
6	3,495.63	6	3,838.34	6	4,181.09	6	4,522.60	6	4,863.52	6		6		6		6		6	
1/4	3,502.77	1/4	3,845.48	1/4	4,188.24	1/4	4,529.71	1/4	4,870.58	1/4		1/4		1/4		1/4		1/4	
1/2	3,509.91	1/2	3,852.62	1/2	4,195.38	1/2	4,536.82	1/2	4,877.64	1/2		1/2		1/2		1/2		1/2	
3/4	3,517.04	3/4	3,859.76	3/4	4,202.52	3/4	4,543.93	3/4	4,884.70	3/4		3/4		3/4		3/4		3/4	
7	3,524.18	7	3,866.90	7	4,209.66	7	4,551.03	7	4,891.76	7		7		7		7		7	
1/4	3,531.32	1/4	3,874.04	1/4	4,216.80	1/4	4,558.14	1/4	4,898.82	1/4		1/4		1/4		1/4		1/4	
1/2	3,538.46	1/2	3,881.19	1/2	4,223.94	1/2	4,565.25	1/2	4,905.88	1/2		1/2		1/2		1/2		1/2	
3/4	3,545.60	3/4	3,888.33	3/4	4,231.08	3/4	4,572.36	3/4	4,912.93	3/4		3/4		3/4		3/4		3/4	
8	3,552.74	8	3,895.47	8	4,238.22	8	4,579.47	8	4,919.99	8		8		8		8		8	
1/4	3,559.88	1/4	3,902.61	1/4	4,245.34	1/4	4,586.57	1/4	4,927.01	1/4		1/4		1/4		1/4		1/4	
1/2	3,567.01	1/2	3,909.75	1/2	4,252.47	1/2	4,593.68	1/2	4,934.03	1/2		1/2		1/2		1/2		1/2	
3/4	3,574.15	3/4	3,916.89	3/4	4,259.59	3/4	4,600.79	3/4	4,941.05	3/4		3/4		3/4		3/4		3/4	
9	3,581.29	9	3,924.03	9	4,266.71	9	4,607.90	9	4,948.07	9		9		9		9		9	
1/4	3,588.43	1/4	3,931.17	1/4	4,273.82	1/4	4,615.01	1/4	4,954.65	1/4		1/4		1/4		1/4		1/4	
1/2	3,595.57	1/2	3,938.31	1/2	4,280.93	1/2	4,622.11	1/2	4,961.24	1/2		1/2		1/2		1/2		1/2	
3/4	3,602.71	3/4	3,945.45	3/4	4,288.04	3/4	4,629.22	3/4	4,967.82	3/4		3/4		3/4		3/4		3/4	
10	3,609.85	10	3,952.59	10	4,295.15	10	4,636.33	10	4,974.40	10		10		10		10		10	
1/4	3,616.99	1/4	3,959.73	1/4	4,302.25	1/4	4,643.44	1/4	4,979.98	1/4		1/4		1/4		1/4		1/4	
1/2	3,624.12	1/2	3,966.87	1/2	4,309.36	1/2	4,650.55	1/2	4,985.55	1/2		1/2		1/2		1/2		1/2	
3/4	3,631.26	3/4	3,974.01	3/4	4,316.47	3/4	4,657.65	3/4	4,991.13	3/4		3/4		3/4		3/4		3/4	
11	3,638.40	11	3,981.15	11	4,323.58	11	4,664.76	11	4,996.70	11		11		11		11		11	
1/4	3,645.54	1/4	3,988.30	1/4	4,330.69	1/4	4,671.87	1/4	5,001.09	1/4		1/4		1/4		1/4		1/4	
1/2	3,652.68	1/2	3,995.44	1/2	4,337.79	1/2	4,678.98	1/2	5,005.47	1/2		1/2		1/2		1/2		1/2	
3/4	3,659.82	3/4	4,002.58	3/4	4,344.90	3/4	4,686.09	3/4	5,009.86	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/15/2020 CL
CALCULATED: 07/16/2020 CL
PRINTED: 07/16/2020 JS

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2020



Barge "HSM 3310"
formerly the
BARGE "FMT 3310"

2 PORT
INNAGE TABLE

10" HATCH
GAUGE HEIGHT 18'-02 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	2.16	0	301.06	0	644.94	0	980.94	0	1,318.18	0	1,662.07	0	2,005.96	0	2,349.85	0	2,693.75	0	3,037.64
1/4	3.95	1/4	308.22	1/4	652.10	1/4	987.79	1/4	1,325.35	1/4	1,669.24	1/4	2,013.13	1/4	2,357.02	1/4	2,700.91	1/4	3,044.80
1/2	5.74	1/2	315.39	1/2	659.26	1/2	994.65	1/2	1,332.51	1/2	1,676.40	1/2	2,020.29	1/2	2,364.18	1/2	2,708.07	1/2	3,051.95
3/4	7.53	3/4	322.55	3/4	666.43	3/4	1,001.51	3/4	1,339.67	3/4	1,683.57	3/4	2,027.46	3/4	2,371.35	3/4	2,715.24	3/4	3,059.11
1	9.32	1	329.72	1	673.59	1	1,008.36	1	1,346.84	1	1,690.73	1	2,034.62	1	2,378.51	1	2,722.40	1	3,066.27
1/4	12.90	1/4	336.88	1/4	680.76	1/4	1,015.22	1/4	1,354.00	1/4	1,697.89	1/4	2,041.79	1/4	2,385.68	1/4	2,729.57	1/4	3,073.43
1/2	16.48	1/2	344.04	1/2	687.92	1/2	1,022.07	1/2	1,361.17	1/2	1,705.06	1/2	2,048.95	1/2	2,392.84	1/2	2,736.73	1/2	3,080.60
3/4	20.07	3/4	351.21	3/4	695.08	3/4	1,028.93	3/4	1,368.33	3/4	1,712.22	3/4	2,056.11	3/4	2,400.01	3/4	2,743.90	3/4	3,087.76
2	23.65	2	358.37	2	702.25	2	1,035.79	2	1,375.50	2	1,719.39	2	2,063.28	2	2,407.17	2	2,751.06	2	3,094.92
1/4	29.02	1/4	365.54	1/4	709.41	1/4	1,042.64	1/4	1,382.66	1/4	1,726.55	1/4	2,070.44	1/4	2,414.33	1/4	2,758.23	1/4	3,102.08
1/2	34.39	1/2	372.70	1/2	716.58	1/2	1,049.50	1/2	1,389.83	1/2	1,733.72	1/2	2,077.61	1/2	2,421.50	1/2	2,765.39	1/2	3,109.24
3/4	39.77	3/4	379.86	3/4	723.74	3/4	1,056.36	3/4	1,396.99	3/4	1,740.88	3/4	2,084.77	3/4	2,428.66	3/4	2,772.55	3/4	3,116.41
3	45.14	3	387.03	3	730.90	3	1,063.21	3	1,404.15	3	1,748.05	3	2,091.94	3	2,435.83	3	2,779.72	3	3,123.57
1/4	51.84	1/4	394.19	1/4	738.07	1/4	1,070.07	1/4	1,411.32	1/4	1,755.21	1/4	2,099.10	1/4	2,442.99	1/4	2,786.88	1/4	3,130.73
1/2	58.53	1/2	401.36	1/2	745.23	1/2	1,076.93	1/2	1,418.48	1/2	1,762.37	1/2	2,106.27	1/2	2,450.16	1/2	2,794.05	1/2	3,137.89
3/4	65.23	3/4	408.52	3/4	752.40	3/4	1,083.79	3/4	1,425.65	3/4	1,769.54	3/4	2,113.43	3/4	2,457.32	3/4	2,801.21	3/4	3,145.06
4	71.93	4	415.68	4	759.56	4	1,090.65	4	1,432.81	4	1,776.70	4	2,120.59	4	2,464.49	4	2,808.38	4	3,152.22
1/4	79.07	1/4	422.85	1/4	766.73	1/4	1,097.53	1/4	1,439.98	1/4	1,783.87	1/4	2,127.76	1/4	2,471.65	1/4	2,815.54	1/4	3,159.38
1/2	86.21	1/2	430.01	1/2	773.89	1/2	1,104.40	1/2	1,447.14	1/2	1,791.03	1/2	2,134.92	1/2	2,478.81	1/2	2,822.71	1/2	3,166.54
3/4	93.35	3/4	437.18	3/4	781.05	3/4	1,111.27	3/4	1,454.30	3/4	1,798.20	3/4	2,142.09	3/4	2,485.98	3/4	2,829.87	3/4	3,173.71
5	100.49	5	444.34	5	788.22	5	1,118.14	5	1,461.47	5	1,805.36	5	2,149.25	5	2,493.14	5	2,837.03	5	3,180.87
1/4	107.65	1/4	451.51	1/4	795.24	1/4	1,125.17	1/4	1,468.63	1/4	1,812.52	1/4	2,156.42	1/4	2,500.31	1/4	2,844.20	1/4	3,188.03
1/2	114.81	1/2	458.67	1/2	802.26	1/2	1,132.19	1/2	1,475.80	1/2	1,819.69	1/2	2,163.58	1/2	2,507.47	1/2	2,851.36	1/2	3,195.19
3/4	121.96	3/4	465.83	3/4	809.29	3/4	1,139.21	3/4	1,482.96	3/4	1,826.85	3/4	2,170.74	3/4	2,514.64	3/4	2,858.53	3/4	3,202.35
6	129.12	6	473.00	6	816.31	6	1,146.24	6	1,490.13	6	1,834.02	6	2,177.91	6	2,521.80	6	2,865.69	6	3,209.52
1/4	136.29	1/4	480.16	1/4	823.18	1/4	1,153.40	1/4	1,497.29	1/4	1,841.18	1/4	2,185.07	1/4	2,528.96	1/4	2,872.86	1/4	3,216.68
1/2	143.45	1/2	487.33	1/2	830.05	1/2	1,160.56	1/2	1,504.46	1/2	1,848.35	1/2	2,192.24	1/2	2,536.13	1/2	2,880.02	1/2	3,223.84
3/4	150.61	3/4	494.49	3/4	836.93	3/4	1,167.73	3/4	1,511.62	3/4	1,855.51	3/4	2,199.40	3/4	2,543.29	3/4	2,887.18	3/4	3,231.00
7	157.78	7	501.65	7	843.80	7	1,174.89	7	1,518.78	7	1,862.68	7	2,206.57	7	2,550.46	7	2,894.35	7	3,238.17
1/4	164.94	1/4	508.82	1/4	850.66	1/4	1,182.06	1/4	1,525.95	1/4	1,869.84	1/4	2,213.73	1/4	2,557.62	1/4	2,901.51	1/4	3,245.33
1/2	172.11	1/2	515.98	1/2	857.52	1/2	1,189.22	1/2	1,533.11	1/2	1,877.00	1/2	2,220.90	1/2	2,564.79	1/2	2,908.68	1/2	3,252.49
3/4	179.27	3/4	523.15	3/4	864.38	3/4	1,196.39	3/4	1,540.28	3/4	1,884.17	3/4	2,228.06	3/4	2,571.95	3/4	2,915.84	3/4	3,259.65
8	186.43	8	530.31	8	871.24	8	1,203.55	8	1,547.44	8	1,891.33	8	2,235.22	8	2,579.12	8	2,923.01	8	3,266.82
1/4	193.60	1/4	537.47	1/4	878.10	1/4	1,210.72	1/4	1,554.61	1/4	1,898.50	1/4	2,242.39	1/4	2,586.28	1/4	2,930.17	1/4	3,273.98
1/2	200.76	1/2	544.64	1/2	884.95	1/2	1,217.88	1/2	1,561.77	1/2	1,905.66	1/2	2,249.55	1/2	2,593.44	1/2	2,937.34	1/2	3,281.14
3/4	207.93	3/4	551.80	3/4	891.81	3/4	1,225.04	3/4	1,568.94	3/4	1,912.83	3/4	2,256.72	3/4	2,600.61	3/4	2,944.50	3/4	3,288.30
9	215.09	9	558.97	9	898.66	9	1,232.21	9	1,576.10	9	1,919.99	9	2,263.88	9	2,607.77	9	2,951.66	9	3,295.46
1/4	222.25	1/4	566.13	1/4	905.52	1/4	1,239.37	1/4	1,583.26	1/4	1,927.16	1/4	2,271.05	1/4	2,614.94	1/4	2,958.83	1/4	3,302.63
1/2	229.42	1/2	573.29	1/2	912.38	1/2	1,246.54	1/2	1,590.43	1/2	1,934.32	1/2	2,278.21	1/2	2,622.10	1/2	2,965.99	1/2	3,309.79
3/4	236.58	3/4	580.46	3/4	919.23	3/4	1,253.70	3/4	1,597.59	3/4	1,941.48	3/4	2,285.38	3/4	2,629.27	3/4	2,973.16	3/4	3,316.95
10	243.75	10	587.62	10	926.09	10	1,260.87	10	1,604.76	10	1,948.65	10	2,292.54	10	2,636.43	10	2,980.32	10	3,324.11
1/4	250.91	1/4	594.79	1/4	932.94	1/4	1,268.03	1/4	1,611.92	1/4	1,955.81	1/4	2,299.70	1/4	2,643.60	1/4	2,987.49	1/4	3,331.28
1/2	258.07	1/2	601.95	1/2	939.80	1/2	1,275.19	1/2	1,619.09	1/2	1,962.98	1/2	2,306.87	1/2	2,650.76	1/2	2,994.65	1/2	3,338.44
3/4	265.24	3/4	609.12	3/4	946.66	3/4	1,282.36	3/4	1,626.25	3/4	1,970.14	3/4	2,314.03	3/4	2,657.92	3/4	3,001.82	3/4	3,345.60
11	272.40	11	616.28	11	953.51	11	1,289.52	11	1,633.41	11	1,977.31	11	2,321.20	11	2,665.09	11	3,008.98	11	3,352.76
1/4	279.57	1/4	623.44	1/4	960.37	1/4	1,296.69	1/4	1,640.58	1/4	1,984.47	1/4	2,328.36	1/4	2,672.25	1/4	3,016.14	1/4	3,359.93
1/2	286.73	1/2	630.61	1/2	967.22	1/2	1,303.85	1/2	1,647.74	1/2	1,991.63	1/2	2,335.53	1/2	2,679.42	1/2	3,023.31	1/2	3,367.09
3/4	293.89	3/4	637.77	3/4	974.08	3/4	1,311.02	3/4	1,654.91	3/4	1,998.80	3/4	2,342.69	3/4	2,686.58	3/4	3,030.47	3/4	3,374.25

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME.
GAUGE POINT: (10" HATCH) LOCATED 3'-03" OFF CENTERLINE AND 3'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "HSM 3310"

formerly the
BARGE "FMT 3310"

2 PORT
INNAGE TABLE
10" HATCH
GAUGE HEIGHT 18'-02 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,381.41	0	3,725.20	0	4,068.99	0	4,412.33	0	4,754.56	0	5,076.57	0		0		0		0	
1/4	3,388.57	1/4	3,732.36	1/4	4,076.16	1/4	4,419.46	1/4	4,761.69	1/4	5,079.78	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,395.74	1/2	3,739.53	1/2	4,083.32	1/2	4,426.59	1/2	4,768.82	1/2	5,082.98	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,402.90	3/4	3,746.69	3/4	4,090.48	3/4	4,433.72	3/4	4,775.95	3/4	5,086.18	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	3,410.06	1	3,753.85	1	4,097.64	1	4,440.85	1	4,783.07	1	5,089.39	1	1	1	1	1	1	1	1
1/4	3,417.22	1/4	3,761.01	1/4	4,104.80	1/4	4,447.98	1/4	4,790.20	1/4	5,091.40	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,424.39	1/2	3,768.18	1/2	4,111.97	1/2	4,455.11	1/2	4,797.33	1/2	5,093.41	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,431.55	3/4	3,775.34	3/4	4,119.13	3/4	4,462.24	3/4	4,804.46	3/4	5,095.42	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	3,438.71	2	3,782.50	2	4,126.29	2	4,469.37	2	4,811.59	2	5,097.43	2	2	2	2	2	2	2	2
1/4	3,445.87	1/4	3,789.66	1/4	4,133.45	1/4	4,476.50	1/4	4,818.72	1/4	5,098.36	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,453.04	1/2	3,796.83	1/2	4,140.62	1/2	4,483.63	1/2	4,825.85	1/2	5,099.29	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,460.20	3/4	3,803.99	3/4	4,147.78	3/4	4,490.76	3/4	4,832.98	3/4	5,100.22	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	3,467.36	3	3,811.15	3	4,154.94	3	4,497.89	3	4,840.11	3	5,101.15	3	3	3	3	3	3	3	3
1/4	3,474.52	1/4	3,818.31	1/4	4,162.10	1/4	4,505.02	1/4	4,847.24	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,481.68	1/2	3,825.47	1/2	4,169.27	1/2	4,512.15	1/2	4,854.37	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,488.85	3/4	3,832.64	3/4	4,176.43	3/4	4,519.28	3/4	4,861.50	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	3,496.01	4	3,839.80	4	4,183.59	4	4,526.41	4	4,868.63	4	4	4	4	4	4	4	4	4	4
1/4	3,503.17	1/4	3,846.96	1/4	4,190.75	1/4	4,533.54	1/4	4,875.74	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,510.33	1/2	3,854.12	1/2	4,197.91	1/2	4,540.67	1/2	4,882.84	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,517.50	3/4	3,861.29	3/4	4,205.08	3/4	4,547.79	3/4	4,889.95	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	3,524.66	5	3,868.45	5	4,212.24	5	4,554.92	5	4,897.05	5	5	5	5	5	5	5	5	5	5
1/4	3,531.82	1/4	3,875.61	1/4	4,219.40	1/4	4,562.05	1/4	4,904.14	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,538.98	1/2	3,882.77	1/2	4,226.56	1/2	4,569.18	1/2	4,911.22	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,546.15	3/4	3,889.94	3/4	4,233.73	3/4	4,576.31	3/4	4,918.31	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	3,553.31	6	3,897.10	6	4,240.89	6	4,583.44	6	4,925.39	6	6	6	6	6	6	6	6	6	6
1/4	3,560.47	1/4	3,904.26	1/4	4,248.05	1/4	4,590.57	1/4	4,932.48	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,567.63	1/2	3,911.42	1/2	4,255.21	1/2	4,597.70	1/2	4,939.56	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,574.79	3/4	3,918.58	3/4	4,262.37	3/4	4,604.83	3/4	4,946.64	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	3,581.96	7	3,925.75	7	4,269.54	7	4,611.96	7	4,953.73	7	7	7	7	7	7	7	7	7	7
1/4	3,589.12	1/4	3,932.91	1/4	4,276.70	1/4	4,619.09	1/4	4,960.80	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,596.28	1/2	3,940.07	1/2	4,283.86	1/2	4,626.22	1/2	4,967.88	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,603.44	3/4	3,947.23	3/4	4,291.02	3/4	4,633.35	3/4	4,974.95	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	3,610.61	8	3,954.40	8	4,298.19	8	4,640.48	8	4,982.03	8	8	8	8	8	8	8	8	8	8
1/4	3,617.77	1/4	3,961.56	1/4	4,305.33	1/4	4,647.61	1/4	4,989.07	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,624.93	1/2	3,968.72	1/2	4,312.48	1/2	4,654.74	1/2	4,996.12	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,632.09	3/4	3,975.88	3/4	4,319.63	3/4	4,661.87	3/4	5,003.16	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	3,639.25	9	3,983.05	9	4,326.77	9	4,669.00	9	5,010.20	9	9	9	9	9	9	9	9	9	9
1/4	3,646.42	1/4	3,990.21	1/4	4,333.90	1/4	4,676.13	1/4	5,016.80	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,653.58	1/2	3,997.37	1/2	4,341.03	1/2	4,683.26	1/2	5,023.41	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,660.74	3/4	4,004.53	3/4	4,348.16	3/4	4,690.39	3/4	5,030.01	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	3,667.90	10	4,011.69	10	4,355.29	10	4,697.52	10	5,036.61	10	10	10	10	10	10	10	10	10	10
1/4	3,675.07	1/4	4,018.86	1/4	4,362.42	1/4	4,704.65	1/4	5,042.20	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,682.23	1/2	4,026.02	1/2	4,369.55	1/2	4,711.78	1/2	5,047.80	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,689.39	3/4	4,033.18	3/4	4,376.68	3/4	4,718.91	3/4	5,053.39	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	3,696.55	11	4,040.34	11	4,383.81	11	4,726.04	11	5,058.98	11	11	11	11	11	11	11	11	11	11
1/4	3,703.72	1/4	4,047.51	1/4	4,390.94	1/4	4,733.17	1/4	5,063.38	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,710.88	1/2	4,054.67	1/2	4,398.07	1/2	4,740.30	1/2	5,067.78	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,718.04	3/4	4,061.83	3/4	4,405.20	3/4	4,747.43	3/4	5,072.17	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/15/2020 CL
CALCULATED: 07/16/2020 CL
PRINTED: 07/16/2020 JS

PRECISION MEASUREMENT
& ANALYSIS, INC.

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

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2020





BARGE "HSM 3310"
formerly the
BARGE "FMT 3310"

2 STBD
INNAGE TABLE

10" HATCH
GAUGE HEIGHT 18'-02 1/2"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	2.16	0	301.27	0	645.38	0	989.22	0	1,333.12	0	1,677.25	0	2,021.38	0	2,365.50	0	2,709.63	0	3,053.75
1/4	3.95	1/4	308.43	1/4	652.55	1/4	996.37	1/4	1,340.29	1/4	1,684.42	1/4	2,028.54	1/4	2,372.67	1/4	2,716.80	1/4	3,060.92
1/2	5.74	1/2	315.60	1/2	659.72	1/2	1,003.53	1/2	1,347.46	1/2	1,691.59	1/2	2,035.71	1/2	2,379.84	1/2	2,723.97	1/2	3,068.08
3/4	7.54	3/4	322.77	3/4	666.88	3/4	1,010.68	3/4	1,354.63	3/4	1,698.76	3/4	2,042.88	3/4	2,387.01	3/4	2,731.14	3/4	3,075.25
1	9.33	1	329.94	1	674.05	1	1,017.84	1	1,361.80	1	1,705.93	1	2,050.05	1	2,394.18	1	2,738.31	1	3,082.41
1/4	12.91	1/4	337.11	1/4	681.22	1/4	1,024.99	1/4	1,368.97	1/4	1,713.10	1/4	2,057.22	1/4	2,401.35	1/4	2,745.47	1/4	3,089.58
1/2	16.50	1/2	344.28	1/2	688.39	1/2	1,032.15	1/2	1,376.14	1/2	1,720.26	1/2	2,064.39	1/2	2,408.52	1/2	2,752.64	1/2	3,096.75
3/4	20.08	3/4	351.45	3/4	695.56	3/4	1,039.30	3/4	1,383.31	3/4	1,727.43	3/4	2,071.56	3/4	2,415.69	3/4	2,759.81	3/4	3,103.92
2	23.67	2	358.62	2	702.73	2	1,046.46	2	1,390.48	2	1,734.60	2	2,078.73	2	2,422.86	2	2,766.98	2	3,111.08
1/4	29.04	1/4	365.79	1/4	709.90	1/4	1,053.61	1/4	1,397.65	1/4	1,741.77	1/4	2,085.90	1/4	2,430.03	1/4	2,774.15	1/4	3,118.25
1/2	34.42	1/2	372.96	1/2	717.07	1/2	1,060.77	1/2	1,404.82	1/2	1,748.94	1/2	2,093.07	1/2	2,437.19	1/2	2,781.32	1/2	3,125.42
3/4	39.79	3/4	380.12	3/4	724.24	3/4	1,067.92	3/4	1,411.98	3/4	1,756.11	3/4	2,100.24	3/4	2,444.36	3/4	2,788.49	3/4	3,132.59
3	45.17	3	387.29	3	731.41	3	1,075.08	3	1,419.15	3	1,763.28	3	2,107.41	3	2,451.53	3	2,795.66	3	3,139.75
1/4	51.87	1/4	394.46	1/4	738.57	1/4	1,082.24	1/4	1,426.32	1/4	1,770.45	1/4	2,114.58	1/4	2,458.70	1/4	2,802.83	1/4	3,146.92
1/2	58.57	1/2	401.63	1/2	745.74	1/2	1,089.40	1/2	1,433.49	1/2	1,777.62	1/2	2,121.75	1/2	2,465.87	1/2	2,810.00	1/2	3,154.09
3/4	65.28	3/4	408.80	3/4	752.91	3/4	1,096.56	3/4	1,440.66	3/4	1,784.79	3/4	2,128.91	3/4	2,473.04	3/4	2,817.17	3/4	3,161.25
4	71.98	4	415.97	4	760.08	4	1,103.72	4	1,447.83	4	1,791.96	4	2,136.08	4	2,480.21	4	2,824.34	4	3,168.42
1/4	79.12	1/4	423.14	1/4	767.25	1/4	1,110.88	1/4	1,455.00	1/4	1,799.13	1/4	2,143.25	1/4	2,487.38	1/4	2,831.51	1/4	3,175.59
1/2	86.27	1/2	430.31	1/2	774.42	1/2	1,118.05	1/2	1,462.17	1/2	1,806.30	1/2	2,150.42	1/2	2,494.55	1/2	2,838.68	1/2	3,182.76
3/4	93.41	3/4	437.48	3/4	781.59	3/4	1,125.22	3/4	1,469.34	3/4	1,813.47	3/4	2,157.59	3/4	2,501.72	3/4	2,845.84	3/4	3,189.92
5	100.56	5	444.65	5	788.76	5	1,132.38	5	1,476.51	5	1,820.64	5	2,164.76	5	2,508.89	5	2,853.01	5	3,197.09
1/4	107.72	1/4	451.81	1/4	795.93	1/4	1,139.55	1/4	1,483.68	1/4	1,827.80	1/4	2,171.93	1/4	2,516.06	1/4	2,860.18	1/4	3,204.26
1/2	114.89	1/2	458.98	1/2	803.10	1/2	1,146.72	1/2	1,490.85	1/2	1,834.97	1/2	2,179.10	1/2	2,523.23	1/2	2,867.35	1/2	3,211.43
3/4	122.05	3/4	466.15	3/4	810.26	3/4	1,153.89	3/4	1,498.02	3/4	1,842.14	3/4	2,186.27	3/4	2,530.40	3/4	2,874.52	3/4	3,218.59
6	129.21	6	473.32	6	817.43	6	1,161.06	6	1,505.19	6	1,849.31	6	2,193.44	6	2,537.57	6	2,881.69	6	3,225.76
1/4	136.38	1/4	480.49	1/4	824.60	1/4	1,168.23	1/4	1,512.36	1/4	1,856.48	1/4	2,200.61	1/4	2,544.73	1/4	2,888.86	1/4	3,232.93
1/2	143.55	1/2	487.66	1/2	831.77	1/2	1,175.40	1/2	1,519.52	1/2	1,863.65	1/2	2,207.78	1/2	2,551.90	1/2	2,896.03	1/2	3,240.09
3/4	150.72	3/4	494.83	3/4	838.93	3/4	1,182.57	3/4	1,526.69	3/4	1,870.82	3/4	2,214.95	3/4	2,559.07	3/4	2,903.20	3/4	3,247.26
7	157.89	7	502.00	7	846.10	7	1,189.74	7	1,533.86	7	1,877.99	7	2,222.12	7	2,566.24	7	2,910.37	7	3,254.43
1/4	165.05	1/4	509.17	1/4	853.26	1/4	1,196.91	1/4	1,541.03	1/4	1,885.16	1/4	2,229.29	1/4	2,573.41	1/4	2,917.54	1/4	3,261.60
1/2	172.22	1/2	516.34	1/2	860.42	1/2	1,204.08	1/2	1,548.20	1/2	1,892.33	1/2	2,236.45	1/2	2,580.58	1/2	2,924.71	1/2	3,268.76
3/4	179.39	3/4	523.50	3/4	867.58	3/4	1,211.24	3/4	1,555.37	3/4	1,899.50	3/4	2,243.62	3/4	2,587.75	3/4	2,931.88	3/4	3,275.93
8	186.56	8	530.67	8	874.74	8	1,218.41	8	1,562.54	8	1,906.67	8	2,250.79	8	2,594.92	8	2,939.05	8	3,283.10
1/4	193.73	1/4	537.84	1/4	881.89	1/4	1,225.58	1/4	1,569.71	1/4	1,913.84	1/4	2,257.96	1/4	2,602.09	1/4	2,946.22	1/4	3,290.27
1/2	200.90	1/2	545.01	1/2	889.05	1/2	1,232.75	1/2	1,576.88	1/2	1,921.01	1/2	2,265.13	1/2	2,609.26	1/2	2,953.38	1/2	3,297.43
3/4	208.07	3/4	552.18	3/4	896.20	3/4	1,239.92	3/4	1,584.05	3/4	1,928.17	3/4	2,272.30	3/4	2,616.43	3/4	2,960.55	3/4	3,304.60
9	215.24	9	559.35	9	903.36	9	1,247.09	9	1,591.22	9	1,935.34	9	2,279.47	9	2,623.60	9	2,967.72	9	3,311.77
1/4	222.41	1/4	566.52	1/4	910.51	1/4	1,254.26	1/4	1,598.39	1/4	1,942.51	1/4	2,286.64	1/4	2,630.77	1/4	2,974.89	1/4	3,318.94
1/2	229.58	1/2	573.69	1/2	917.67	1/2	1,261.43	1/2	1,605.56	1/2	1,949.68	1/2	2,293.81	1/2	2,637.94	1/2	2,982.06	1/2	3,326.10
3/4	236.74	3/4	580.86	3/4	924.82	3/4	1,268.60	3/4	1,612.73	3/4	1,956.85	3/4	2,300.98	3/4	2,645.10	3/4	2,989.23	3/4	3,333.27
10	243.91	10	588.03	10	931.98	10	1,275.77	10	1,619.89	10	1,964.02	10	2,308.15	10	2,652.27	10	2,996.40	10	3,340.44
1/4	251.08	1/4	595.19	1/4	939.13	1/4	1,282.94	1/4	1,627.06	1/4	1,971.19	1/4	2,315.32	1/4	2,659.44	1/4	3,003.57	1/4	3,347.60
1/2	258.25	1/2	602.36	1/2	946.29	1/2	1,290.11	1/2	1,634.23	1/2	1,978.36	1/2	2,322.49	1/2	2,666.61	1/2	3,010.74	1/2	3,354.77
3/4	265.42	3/4	609.53	3/4	953.44	3/4	1,297.28	3/4	1,641.40	3/4	1,985.53	3/4	2,329.66	3/4	2,673.78	3/4	3,017.91	3/4	3,361.94
11	272.59	11	616.70	11	960.60	11	1,304.45	11	1,648.57	11	1,992.70	11	2,336.82	11	2,680.95	11	3,025.08	11	3,369.11
1/4	279.76	1/4	623.87	1/4	967.75	1/4	1,311.61	1/4	1,655.74	1/4	1,999.87	1/4	2,343.99	1/4	2,688.12	1/4	3,032.25	1/4	3,376.27
1/2	286.93	1/2	631.04	1/2	974.91	1/2	1,318.78	1/2	1,662.91	1/2	2,007.04	1/2	2,351.16	1/2	2,695.29	1/2	3,039.42	1/2	3,383.44
3/4	294.10	3/4	638.21	3/4	982.06	3/4	1,325.95	3/4	1,670.08	3/4	2,014.21	3/4	2,358.33	3/4	2,702.46	3/4	3,046.59	3/4	3,390.61

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME.
GAUGE POINT: (10" HATCH) LOCATED 3'-03" OFF CENTERLINE AND 3'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



Barge "HSM 3310"
formerly the
BARGE "FMT 3310"

2 STBD
INNAGE TABLE
10" HATCH
GAUGE HEIGHT 18'-02 1/2"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,397.78	0	3,741.81	0	4,085.94	0	4,429.60	0	4,772.15	0	5,094.49	0		0		0		0	
1/4	3,404.94	1/4	3,748.98	1/4	4,093.11	1/4	4,436.74	1/4	4,779.29	1/4	5,097.70	1/4		1/4		1/4		1/4	
1/2	3,412.11	1/2	3,756.15	1/2	4,100.28	1/2	4,443.88	1/2	4,786.43	1/2	5,100.91	1/2		1/2		1/2		1/2	
3/4	3,419.28	3/4	3,763.32	3/4	4,107.45	3/4	4,451.01	3/4	4,793.56	3/4	5,104.12	3/4		3/4		3/4		3/4	
1	3,426.44	1	3,770.49	1	4,114.62	1	4,458.15	1	4,800.70	1	5,107.32	1		1		1		1	
1/4	3,433.61	1/4	3,777.66	1/4	4,121.79	1/4	4,465.28	1/4	4,807.84	1/4	5,109.34	1/4		1/4		1/4		1/4	
1/2	3,440.78	1/2	3,784.83	1/2	4,128.96	1/2	4,472.42	1/2	4,814.97	1/2	5,111.35	1/2		1/2		1/2		1/2	
3/4	3,447.95	3/4	3,792.00	3/4	4,136.12	3/4	4,479.56	3/4	4,822.11	3/4	5,113.36	3/4		3/4		3/4		3/4	
2	3,455.11	2	3,799.17	2	4,143.29	2	4,486.69	2	4,829.25	2	5,115.38	2		2		2		2	
1/4	3,462.28	1/4	3,806.34	1/4	4,150.46	1/4	4,493.83	1/4	4,836.38	1/4	5,116.31	1/4		1/4		1/4		1/4	
1/2	3,469.45	1/2	3,813.51	1/2	4,157.63	1/2	4,500.97	1/2	4,843.52	1/2	5,117.24	1/2		1/2		1/2		1/2	
3/4	3,476.62	3/4	3,820.68	3/4	4,164.80	3/4	4,508.10	3/4	4,850.66	3/4	5,118.17	3/4		3/4		3/4		3/4	
3	3,483.78	3	3,827.84	3	4,171.97	3	4,515.24	3	4,857.79	3	5,119.11	3		3		3		3	
1/4	3,490.95	1/4	3,835.01	1/4	4,179.14	1/4	4,522.38	1/4	4,864.93	1/4		1/4		1/4		1/4		1/4	
1/2	3,498.12	1/2	3,842.18	1/2	4,186.31	1/2	4,529.51	1/2	4,872.07	1/2		1/2		1/2		1/2		1/2	
3/4	3,505.28	3/4	3,849.35	3/4	4,193.48	3/4	4,536.65	3/4	4,879.20	3/4		3/4		3/4		3/4		3/4	
4	3,512.45	4	3,856.52	4	4,200.65	4	4,543.79	4	4,886.34	4		4		4		4		4	
1/4	3,519.62	1/4	3,863.69	1/4	4,207.82	1/4	4,550.92	1/4	4,893.45	1/4		1/4		1/4		1/4		1/4	
1/2	3,526.79	1/2	3,870.86	1/2	4,214.99	1/2	4,558.06	1/2	4,900.57	1/2		1/2		1/2		1/2		1/2	
3/4	3,533.95	3/4	3,878.03	3/4	4,222.16	3/4	4,565.20	3/4	4,907.68	3/4		3/4		3/4		3/4		3/4	
5	3,541.12	5	3,885.20	5	4,229.33	5	4,572.33	5	4,914.79	5		5		5		5		5	
1/4	3,548.29	1/4	3,892.37	1/4	4,236.49	1/4	4,579.47	1/4	4,921.88	1/4		1/4		1/4		1/4		1/4	
1/2	3,555.46	1/2	3,899.54	1/2	4,243.66	1/2	4,586.61	1/2	4,928.98	1/2		1/2		1/2		1/2		1/2	
3/4	3,562.62	3/4	3,906.71	3/4	4,250.83	3/4	4,593.74	3/4	4,936.07	3/4		3/4		3/4		3/4		3/4	
6	3,569.79	6	3,913.88	6	4,258.00	6	4,600.88	6	4,943.16	6		6		6		6		6	
1/4	3,576.96	1/4	3,921.05	1/4	4,265.17	1/4	4,608.01	1/4	4,950.25	1/4		1/4		1/4		1/4		1/4	
1/2	3,584.13	1/2	3,928.21	1/2	4,272.34	1/2	4,615.15	1/2	4,957.34	1/2		1/2		1/2		1/2		1/2	
3/4	3,591.29	3/4	3,935.38	3/4	4,279.51	3/4	4,622.29	3/4	4,964.43	3/4		3/4		3/4		3/4		3/4	
7	3,598.46	7	3,942.55	7	4,286.68	7	4,629.42	7	4,971.52	7		7		7		7		7	
1/4	3,605.63	1/4	3,949.72	1/4	4,293.85	1/4	4,636.56	1/4	4,978.60	1/4		1/4		1/4		1/4		1/4	
1/2	3,612.79	1/2	3,956.89	1/2	4,301.02	1/2	4,643.70	1/2	4,985.69	1/2		1/2		1/2		1/2		1/2	
3/4	3,619.96	3/4	3,964.06	3/4	4,308.19	3/4	4,650.83	3/4	4,992.77	3/4		3/4		3/4		3/4		3/4	
8	3,627.13	8	3,971.23	8	4,315.36	8	4,657.97	8	4,999.85	8		8		8		8		8	
1/4	3,634.30	1/4	3,978.40	1/4	4,322.51	1/4	4,665.11	1/4	5,006.90	1/4		1/4		1/4		1/4		1/4	
1/2	3,641.46	1/2	3,985.57	1/2	4,329.66	1/2	4,672.24	1/2	5,013.95	1/2		1/2		1/2		1/2		1/2	
3/4	3,648.63	3/4	3,992.74	3/4	4,336.81	3/4	4,679.38	3/4	5,021.00	3/4		3/4		3/4		3/4		3/4	
9	3,655.80	9	3,999.91	9	4,343.96	9	4,686.52	9	5,028.05	9		9		9		9		9	
1/4	3,662.97	1/4	4,007.08	1/4	4,351.10	1/4	4,693.65	1/4	5,034.66	1/4		1/4		1/4		1/4		1/4	
1/2	3,670.13	1/2	4,014.25	1/2	4,358.24	1/2	4,700.79	1/2	5,041.27	1/2		1/2		1/2		1/2		1/2	
3/4	3,677.30	3/4	4,021.42	3/4	4,365.37	3/4	4,707.93	3/4	5,047.88	3/4		3/4		3/4		3/4		3/4	
10	3,684.47	10	4,028.59	10	4,372.51	10	4,715.06	10	5,054.49	10		10		10		10		10	
1/4	3,691.63	1/4	4,035.75	1/4	4,379.65	1/4	4,722.20	1/4	5,060.09	1/4		1/4		1/4		1/4		1/4	
1/2	3,698.80	1/2	4,042.92	1/2	4,386.78	1/2	4,729.34	1/2	5,065.68	1/2		1/2		1/2		1/2		1/2	
3/4	3,705.97	3/4	4,050.09	3/4	4,393.92	3/4	4,736.47	3/4	5,071.28	3/4		3/4		3/4		3/4		3/4	
11	3,713.14	11	4,057.26	11	4,401.06	11	4,743.61	11	5,076.88	11		11		11		11		11	
1/4	3,720.31	1/4	4,064.43	1/4	4,408.19	1/4	4,750.74	1/4	5,081.28	1/4		1/4		1/4		1/4		1/4	
1/2	3,727.47	1/2	4,071.60	1/2	4,415.33	1/2	4,757.88	1/2	5,085.69	1/2		1/2		1/2		1/2		1/2	
3/4	3,734.64	3/4	4,078.77	3/4	4,422.47	3/4	4,765.02	3/4	5,090.09	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/15/2020 CL
CALCULATED: 07/16/2020 CL
PRINTED: 07/16/2020 JS

PRECISION MEASUREMENT
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CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2020



BARGE "HSM 3310"
formerly the
BARGE "FMT 3310"

3 PORT
INNAGE TABLE

10" HATCH

GAUGE HEIGHT 18'-02 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	2.15	0	299.78	0	641.75	0	975.87	0	1,311.19	0	1,652.99	0	1,994.78	0	2,336.57	0	2,678.34	0	3,020.25
1/4	3.93	1/4	306.91	1/4	648.87	1/4	982.68	1/4	1,318.31	1/4	1,660.11	1/4	2,001.90	1/4	2,343.70	1/4	2,685.46	1/4	3,027.37
1/2	5.72	1/2	314.05	1/2	655.99	1/2	989.49	1/2	1,325.44	1/2	1,667.23	1/2	2,009.02	1/2	2,350.82	1/2	2,692.58	1/2	3,034.50
3/4	7.50	3/4	321.18	3/4	663.12	3/4	996.30	3/4	1,332.56	3/4	1,674.35	3/4	2,016.14	3/4	2,357.94	3/4	2,699.70	3/4	3,041.62
1	9.28	1	328.31	1	670.24	1	1,003.11	1	1,339.68	1	1,681.47	1	2,023.26	1	2,365.06	1	2,706.82	1	3,048.75
1/4	12.85	1/4	335.45	1/4	677.36	1/4	1,009.92	1/4	1,346.80	1/4	1,688.59	1/4	2,030.38	1/4	2,372.18	1/4	2,713.94	1/4	3,055.86
1/2	16.42	1/2	342.58	1/2	684.48	1/2	1,016.73	1/2	1,353.92	1/2	1,695.71	1/2	2,037.50	1/2	2,379.30	1/2	2,721.06	1/2	3,062.98
3/4	19.98	3/4	349.71	3/4	691.60	3/4	1,023.54	3/4	1,361.04	3/4	1,702.83	3/4	2,044.63	3/4	2,386.42	3/4	2,728.18	3/4	3,070.09
2	23.55	2	356.85	2	698.73	2	1,030.35	2	1,368.16	2	1,709.95	2	2,051.75	2	2,393.54	2	2,735.30	2	3,077.21
1/4	28.90	1/4	363.98	1/4	705.85	1/4	1,037.17	1/4	1,375.28	1/4	1,717.07	1/4	2,058.87	1/4	2,400.66	1/4	2,742.41	1/4	3,084.32
1/2	34.25	1/2	371.10	1/2	712.97	1/2	1,043.98	1/2	1,382.40	1/2	1,724.19	1/2	2,065.99	1/2	2,407.78	1/2	2,749.53	1/2	3,091.44
3/4	39.60	3/4	378.23	3/4	720.09	3/4	1,050.79	3/4	1,389.52	3/4	1,731.31	3/4	2,073.11	3/4	2,414.90	3/4	2,756.65	3/4	3,098.56
3	44.95	3	385.36	3	727.21	3	1,057.60	3	1,396.64	3	1,738.44	3	2,080.23	3	2,422.02	3	2,763.77	3	3,105.67
1/4	51.62	1/4	392.48	1/4	734.34	1/4	1,064.41	1/4	1,403.76	1/4	1,745.56	1/4	2,087.35	1/4	2,429.14	1/4	2,770.89	1/4	3,112.78
1/2	58.29	1/2	399.60	1/2	741.46	1/2	1,071.23	1/2	1,410.88	1/2	1,752.68	1/2	2,094.47	1/2	2,436.26	1/2	2,778.01	1/2	3,119.89
3/4	64.95	3/4	406.72	3/4	748.58	3/4	1,078.04	3/4	1,418.00	3/4	1,759.80	3/4	2,101.59	3/4	2,443.38	3/4	2,785.13	3/4	3,126.99
4	71.62	4	413.85	4	755.70	4	1,084.86	4	1,425.12	4	1,766.92	4	2,108.71	4	2,450.51	4	2,792.25	4	3,134.10
1/4	78.73	1/4	420.97	1/4	762.82	1/4	1,091.71	1/4	1,432.25	1/4	1,774.04	1/4	2,115.83	1/4	2,457.63	1/4	2,799.37	1/4	3,141.20
1/2	85.84	1/2	428.09	1/2	769.95	1/2	1,098.57	1/2	1,439.37	1/2	1,781.16	1/2	2,122.95	1/2	2,464.75	1/2	2,806.49	1/2	3,148.30
3/4	92.95	3/4	435.21	3/4	777.07	3/4	1,105.42	3/4	1,446.49	3/4	1,788.28	3/4	2,130.07	3/4	2,471.87	3/4	2,813.61	3/4	3,155.39
5	100.06	5	442.33	5	784.19	5	1,112.28	5	1,453.61	5	1,795.40	5	2,137.19	5	2,478.99	5	2,820.73	5	3,162.49
1/4	107.19	1/4	449.46	1/4	791.20	1/4	1,119.28	1/4	1,460.73	1/4	1,802.52	1/4	2,144.32	1/4	2,486.11	1/4	2,827.85	1/4	3,169.59
1/2	114.32	1/2	456.58	1/2	798.20	1/2	1,126.29	1/2	1,467.85	1/2	1,809.64	1/2	2,151.44	1/2	2,493.22	1/2	2,834.97	1/2	3,176.69
3/4	121.45	3/4	463.70	3/4	805.21	3/4	1,133.29	3/4	1,474.97	3/4	1,816.76	3/4	2,158.56	3/4	2,500.34	3/4	2,842.09	3/4	3,183.79
6	128.57	6	470.82	6	812.21	6	1,140.30	6	1,482.09	6	1,823.88	6	2,165.68	6	2,507.46	6	2,849.21	6	3,190.89
1/4	135.71	1/4	477.94	1/4	819.07	1/4	1,147.42	1/4	1,489.21	1/4	1,831.00	1/4	2,172.80	1/4	2,514.58	1/4	2,856.33	1/4	3,197.98
1/2	142.84	1/2	485.07	1/2	825.92	1/2	1,154.54	1/2	1,496.33	1/2	1,838.13	1/2	2,179.92	1/2	2,521.70	1/2	2,863.45	1/2	3,205.08
3/4	149.97	3/4	492.19	3/4	832.78	3/4	1,161.66	3/4	1,503.45	3/4	1,845.25	3/4	2,187.04	3/4	2,528.82	3/4	2,870.57	3/4	3,212.18
7	157.11	7	499.31	7	839.63	7	1,168.78	7	1,510.57	7	1,852.37	7	2,194.16	7	2,535.94	7	2,877.69	7	3,219.28
1/4	164.24	1/4	506.43	1/4	846.45	1/4	1,175.90	1/4	1,517.69	1/4	1,859.49	1/4	2,201.28	1/4	2,543.06	1/4	2,884.81	1/4	3,226.38
1/2	171.37	1/2	513.55	1/2	853.26	1/2	1,183.02	1/2	1,524.81	1/2	1,866.61	1/2	2,208.40	1/2	2,550.18	1/2	2,891.93	1/2	3,233.48
3/4	178.51	3/4	520.68	3/4	860.08	3/4	1,190.14	3/4	1,531.94	3/4	1,873.73	3/4	2,215.52	3/4	2,557.30	3/4	2,899.05	3/4	3,240.58
8	185.64	8	527.80	8	866.89	8	1,197.26	8	1,539.06	8	1,880.85	8	2,222.64	8	2,564.42	8	2,906.17	8	3,247.67
1/4	192.77	1/4	534.92	1/4	873.70	1/4	1,204.38	1/4	1,546.18	1/4	1,887.97	1/4	2,229.76	1/4	2,571.54	1/4	2,913.30	1/4	3,254.77
1/2	199.91	1/2	542.04	1/2	880.51	1/2	1,211.50	1/2	1,553.30	1/2	1,895.09	1/2	2,236.88	1/2	2,578.66	1/2	2,920.42	1/2	3,261.87
3/4	207.04	3/4	549.16	3/4	887.32	3/4	1,218.62	3/4	1,560.42	3/4	1,902.21	3/4	2,244.01	3/4	2,585.78	3/4	2,927.55	3/4	3,268.97
9	214.18	9	556.29	9	894.13	9	1,225.75	9	1,567.54	9	1,909.33	9	2,251.13	9	2,592.90	9	2,934.67	9	3,276.07
1/4	221.31	1/4	563.41	1/4	900.94	1/4	1,232.87	1/4	1,574.66	1/4	1,916.45	1/4	2,258.25	1/4	2,600.02	1/4	2,941.80	1/4	3,283.17
1/2	228.44	1/2	570.53	1/2	907.76	1/2	1,239.99	1/2	1,581.78	1/2	1,923.57	1/2	2,265.37	1/2	2,607.14	1/2	2,948.94	1/2	3,290.27
3/4	235.58	3/4	577.65	3/4	914.57	3/4	1,247.11	3/4	1,588.90	3/4	1,930.69	3/4	2,272.49	3/4	2,614.26	3/4	2,956.07	3/4	3,297.37
10	242.71	10	584.77	10	921.38	10	1,254.23	10	1,596.02	10	1,937.82	10	2,279.61	10	2,621.38	10	2,963.20	10	3,304.47
1/4	249.84	1/4	591.90	1/4	928.19	1/4	1,261.35	1/4	1,603.14	1/4	1,944.94	1/4	2,286.73	1/4	2,628.50	1/4	2,970.33	1/4	3,311.57
1/2	256.98	1/2	599.02	1/2	935.00	1/2	1,268.47	1/2	1,610.26	1/2	1,952.06	1/2	2,293.85	1/2	2,635.62	1/2	2,977.46	1/2	3,318.67
3/4	264.11	3/4	606.14	3/4	941.81	3/4	1,275.59	3/4	1,617.38	3/4	1,959.18	3/4	2,300.97	3/4	2,642.74	3/4	2,984.59	3/4	3,325.77
11	271.24	11	613.26	11	948.62	11	1,282.71	11	1,624.50	11	1,966.30	11	2,308.09	11	2,649.86	11	2,991.73	11	3,332.87
1/4	278.38	1/4	620.38	1/4	955.43	1/4	1,289.83	1/4	1,631.63	1/4	1,973.42	1/4	2,315.21	1/4	2,656.98	1/4	2,998.86	1/4	3,339.97
1/2	285.51	1/2	627.51	1/2	962.24	1/2	1,296.95	1/2	1,638.75	1/2	1,980.54	1/2	2,322.33	1/2	2,664.10	1/2	3,005.99	1/2	3,347.07
3/4	292.64	3/4	634.63	3/4	969.05	3/4	1,304.07	3/4	1,645.87	3/4	1,987.66	3/4	2,329.45	3/4	2,671.22	3/4	3,013.12	3/4	3,354.17

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME.
GAUGE POINT: (10" HATCH) LOCATED 3'-03" OFF CENTERLINE AND 82'-08" 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 "HSM 3310"
formerly the
BARGE "FMT 3310"

3 PORT
INNAGE TABLE
10" HATCH
GAUGE HEIGHT 18'-02 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,355.74	0	3,564.82	0	3,774.67	0	3,984.26	0	4,193.19	0	4,383.83	0		0		0		0	
1/4	3,360.08	1/4	3,569.20	1/4	3,779.05	1/4	3,988.61	1/4	4,197.55	1/4	4,385.54	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,364.42	1/2	3,573.57	1/2	3,783.42	1/2	3,992.96	1/2	4,201.90	1/2	4,387.25	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,368.76	3/4	3,577.94	3/4	3,787.79	3/4	3,997.32	3/4	4,206.25	3/4	4,388.96	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	3,373.10	1	3,582.31	1	3,792.16	1	4,001.67	1	4,210.60	1	4,390.66	1	1	1	1	1	1	1	1
1/4	3,377.44	1/4	3,586.68	1/4	3,796.53	1/4	4,006.02	1/4	4,214.96	1/4	4,392.37	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,381.79	1/2	3,591.05	1/2	3,800.91	1/2	4,010.38	1/2	4,219.31	1/2	4,394.08	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,386.14	3/4	3,595.43	3/4	3,805.28	3/4	4,014.73	3/4	4,223.66	3/4	4,395.79	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	3,390.48	2	3,599.80	2	3,809.65	2	4,019.08	2	4,228.02	2	4,397.50	2	2	2	2	2	2	2	2
1/4	3,394.84	1/4	3,604.17	1/4	3,814.02	1/4	4,023.43	1/4	4,232.37	1/4	4,398.57	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,399.20	1/2	3,608.54	1/2	3,818.39	1/2	4,027.79	1/2	4,236.72	1/2	4,399.65	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,403.55	3/4	3,612.91	3/4	3,822.77	3/4	4,032.14	3/4	4,241.07	3/4	4,400.73	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	3,407.91	3	3,617.29	3	3,827.14	3	4,036.49	3	4,245.43	3	4,401.80	3	3	3	3	3	3	3	3
1/4	3,412.26	1/4	3,621.66	1/4	3,831.51	1/4	4,040.84	1/4	4,249.78	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,416.62	1/2	3,626.03	1/2	3,835.88	1/2	4,045.20	1/2	4,254.13	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,420.98	3/4	3,630.40	3/4	3,840.25	3/4	4,049.55	3/4	4,258.48	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	3,425.33	4	3,634.77	4	3,844.63	4	4,053.90	4	4,262.84	4		4	4	4	4	4	4	4	4
1/4	3,429.69	1/4	3,639.15	1/4	3,849.00	1/4	4,058.26	1/4	4,267.18	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,434.04	1/2	3,643.52	1/2	3,853.37	1/2	4,062.61	1/2	4,271.52	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,438.40	3/4	3,647.89	3/4	3,857.74	3/4	4,066.96	3/4	4,275.86	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	3,442.76	5	3,652.26	5	3,862.11	5	4,071.31	5	4,280.19	5		5	5	5	5	5	5	5	5
1/4	3,447.11	1/4	3,656.63	1/4	3,866.48	1/4	4,075.67	1/4	4,284.52	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,451.47	1/2	3,661.01	1/2	3,870.86	1/2	4,080.02	1/2	4,288.85	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,455.83	3/4	3,665.38	3/4	3,875.23	3/4	4,084.37	3/4	4,293.17	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	3,460.18	6	3,669.75	6	3,879.60	6	4,088.73	6	4,297.50	6		6	6	6	6	6	6	6	6
1/4	3,464.54	1/4	3,674.12	1/4	3,883.97	1/4	4,093.08	1/4	4,301.82	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,468.89	1/2	3,678.49	1/2	3,888.34	1/2	4,097.43	1/2	4,306.14	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,473.25	3/4	3,682.86	3/4	3,892.72	3/4	4,101.78	3/4	4,310.47	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	3,477.61	7	3,687.24	7	3,897.09	7	4,106.14	7	4,314.79	7		7	7	7	7	7	7	7	7
1/4	3,481.96	1/4	3,691.61	1/4	3,901.46	1/4	4,110.49	1/4	4,319.11	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,486.32	1/2	3,695.98	1/2	3,905.83	1/2	4,114.84	1/2	4,323.42	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,490.67	3/4	3,700.35	3/4	3,910.20	3/4	4,119.20	3/4	4,327.74	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	3,495.03	8	3,704.72	8	3,914.58	8	4,123.55	8	4,332.06	8		8	8	8	8	8	8	8	8
1/4	3,499.39	1/4	3,709.10	1/4	3,918.94	1/4	4,127.90	1/4	4,336.34	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,503.74	1/2	3,713.47	1/2	3,923.30	1/2	4,132.25	1/2	4,340.62	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,508.10	3/4	3,717.84	3/4	3,927.66	3/4	4,136.61	3/4	4,344.91	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	3,512.45	9	3,722.21	9	3,932.02	9	4,140.96	9	4,349.19	9		9	9	9	9	9	9	9	9
1/4	3,516.81	1/4	3,726.58	1/4	3,936.38	1/4	4,145.31	1/4	4,353.04	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,521.17	1/2	3,730.96	1/2	3,940.73	1/2	4,149.66	1/2	4,356.88	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,525.52	3/4	3,735.33	3/4	3,945.08	3/4	4,154.02	3/4	4,360.73	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	3,529.88	10	3,739.70	10	3,949.44	10	4,158.37	10	4,364.57	10		10	10	10	10	10	10	10	10
1/4	3,534.24	1/4	3,744.07	1/4	3,953.79	1/4	4,162.72	1/4	4,367.41	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,538.61	1/2	3,748.44	1/2	3,958.14	1/2	4,167.08	1/2	4,370.25	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,542.97	3/4	3,752.82	3/4	3,962.49	3/4	4,171.43	3/4	4,373.09	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	3,547.34	11	3,757.19	11	3,966.85	11	4,175.78	11	4,375.93	11		11	11	11	11	11	11	11	11
1/4	3,551.71	1/4	3,761.56	1/4	3,971.20	1/4	4,180.13	1/4	4,377.90	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,556.08	1/2	3,765.93	1/2	3,975.55	1/2	4,184.49	1/2	4,379.88	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,560.45	3/4	3,770.30	3/4	3,979.91	3/4	4,188.84	3/4	4,381.86	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: 07/15/2020 CL
CALCULATED: 07/16/2020 CL
PRINTED: 07/16/2020 JS

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2020



BARGE "HSM 3310"

formerly the
BARGE "FMT 3310"

3 STBD INNAGE TABLE

10" HATCH GAUGE HEIGHT 18'-02 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	2.14	0	298.88	0	640.26	0	981.37	0	1,322.54	0	1,663.93	0	2,005.32	0	2,346.71	0	2,687.95	0	3,028.47
1/4	3.92	1/4	305.99	1/4	647.38	1/4	988.47	1/4	1,329.65	1/4	1,671.05	1/4	2,012.44	1/4	2,353.83	1/4	2,695.05	1/4	3,035.57
1/2	5.70	1/2	313.10	1/2	654.49	1/2	995.57	1/2	1,336.77	1/2	1,678.16	1/2	2,019.55	1/2	2,360.94	1/2	2,702.14	1/2	3,042.66
3/4	7.48	3/4	320.21	3/4	661.60	3/4	1,002.67	3/4	1,343.88	3/4	1,685.27	3/4	2,026.66	3/4	2,368.05	3/4	2,709.23	3/4	3,049.76
1	9.25	1	327.33	1	668.71	1	1,009.76	1	1,350.99	1	1,692.38	1	2,033.77	1	2,375.16	1	2,716.33	1	3,056.85
1/4	12.81	1/4	334.44	1/4	675.82	1/4	1,016.86	1/4	1,358.10	1/4	1,699.49	1/4	2,040.88	1/4	2,382.28	1/4	2,723.42	1/4	3,063.94
1/2	16.37	1/2	341.55	1/2	682.94	1/2	1,023.96	1/2	1,365.22	1/2	1,706.61	1/2	2,048.00	1/2	2,389.39	1/2	2,730.52	1/2	3,071.04
3/4	19.92	3/4	348.66	3/4	690.05	3/4	1,031.06	3/4	1,372.33	3/4	1,713.72	3/4	2,055.11	3/4	2,396.50	3/4	2,737.61	3/4	3,078.13
2	23.48	2	355.78	2	697.16	2	1,038.16	2	1,379.44	2	1,720.83	2	2,062.22	2	2,403.61	2	2,744.71	2	3,085.23
1/4	28.81	1/4	362.89	1/4	704.27	1/4	1,045.26	1/4	1,386.55	1/4	1,727.94	1/4	2,069.33	1/4	2,410.72	1/4	2,751.80	1/4	3,092.32
1/2	34.15	1/2	370.00	1/2	711.39	1/2	1,052.35	1/2	1,393.67	1/2	1,735.06	1/2	2,076.45	1/2	2,417.84	1/2	2,758.89	1/2	3,099.42
3/4	39.48	3/4	377.11	3/4	718.50	3/4	1,059.45	3/4	1,400.78	3/4	1,742.17	3/4	2,083.56	3/4	2,424.95	3/4	2,765.99	3/4	3,106.51
3	44.81	3	384.22	3	725.61	3	1,066.55	3	1,407.89	3	1,749.28	3	2,090.67	3	2,432.06	3	2,773.08	3	3,113.60
1/4	51.46	1/4	391.34	1/4	732.72	1/4	1,073.65	1/4	1,415.00	1/4	1,756.39	1/4	2,097.78	1/4	2,439.17	1/4	2,780.18	1/4	3,120.69
1/2	58.11	1/2	398.45	1/2	739.83	1/2	1,080.76	1/2	1,422.11	1/2	1,763.51	1/2	2,104.90	1/2	2,446.29	1/2	2,787.27	1/2	3,127.78
3/4	64.76	3/4	405.56	3/4	746.95	3/4	1,087.86	3/4	1,429.23	3/4	1,770.62	3/4	2,112.01	3/4	2,453.40	3/4	2,794.37	3/4	3,134.86
4	71.41	4	412.67	4	754.06	4	1,094.96	4	1,436.34	4	1,777.73	4	2,119.12	4	2,460.51	4	2,801.46	4	3,141.95
1/4	78.50	1/4	419.79	1/4	761.17	1/4	1,102.07	1/4	1,443.45	1/4	1,784.84	1/4	2,126.23	1/4	2,467.62	1/4	2,808.55	1/4	3,149.02
1/2	85.59	1/2	426.90	1/2	768.28	1/2	1,109.18	1/2	1,450.56	1/2	1,791.95	1/2	2,133.34	1/2	2,474.74	1/2	2,815.65	1/2	3,156.10
3/4	92.67	3/4	434.01	3/4	775.40	3/4	1,116.29	3/4	1,457.68	3/4	1,799.07	3/4	2,140.46	3/4	2,481.85	3/4	2,822.74	3/4	3,163.18
5	99.76	5	441.12	5	782.51	5	1,123.40	5	1,464.79	5	1,806.18	5	2,147.57	5	2,488.96	5	2,829.84	5	3,170.25
1/4	106.87	1/4	448.23	1/4	789.62	1/4	1,130.51	1/4	1,471.90	1/4	1,813.29	1/4	2,154.68	1/4	2,496.08	1/4	2,836.93	1/4	3,177.33
1/2	113.98	1/2	455.35	1/2	796.73	1/2	1,137.62	1/2	1,479.01	1/2	1,820.40	1/2	2,161.79	1/2	2,503.19	1/2	2,844.02	1/2	3,184.41
3/4	121.08	3/4	462.46	3/4	803.84	3/4	1,144.74	3/4	1,486.13	3/4	1,827.52	3/4	2,168.91	3/4	2,510.31	3/4	2,851.12	3/4	3,191.49
6	128.19	6	469.57	6	810.96	6	1,151.85	6	1,493.24	6	1,834.63	6	2,176.02	6	2,517.43	6	2,858.21	6	3,198.56
1/4	135.30	1/4	476.68	1/4	818.06	1/4	1,158.96	1/4	1,500.35	1/4	1,841.74	1/4	2,183.13	1/4	2,524.54	1/4	2,865.31	1/4	3,205.64
1/2	142.41	1/2	483.79	1/2	825.17	1/2	1,166.07	1/2	1,507.46	1/2	1,848.85	1/2	2,190.24	1/2	2,531.65	1/2	2,872.40	1/2	3,212.72
3/4	149.52	3/4	490.91	3/4	832.28	3/4	1,173.18	3/4	1,514.57	3/4	1,855.97	3/4	2,197.36	3/4	2,538.77	3/4	2,879.50	3/4	3,219.79
7	156.63	7	498.02	7	839.39	7	1,180.30	7	1,521.69	7	1,863.08	7	2,204.47	7	2,545.88	7	2,886.59	7	3,226.87
1/4	163.75	1/4	505.13	1/4	846.49	1/4	1,187.41	1/4	1,528.80	1/4	1,870.19	1/4	2,211.58	1/4	2,552.99	1/4	2,893.68	1/4	3,233.95
1/2	170.86	1/2	512.24	1/2	853.59	1/2	1,194.52	1/2	1,535.91	1/2	1,877.30	1/2	2,218.69	1/2	2,560.11	1/2	2,900.78	1/2	3,241.02
3/4	177.97	3/4	519.36	3/4	860.70	3/4	1,201.63	3/4	1,543.02	3/4	1,884.41	3/4	2,225.80	3/4	2,567.22	3/4	2,907.87	3/4	3,248.10
8	185.08	8	526.47	8	867.80	8	1,208.75	8	1,550.14	8	1,891.53	8	2,232.92	8	2,574.33	8	2,914.97	8	3,255.18
1/4	192.19	1/4	533.58	1/4	874.90	1/4	1,215.86	1/4	1,557.25	1/4	1,898.64	1/4	2,240.03	1/4	2,581.45	1/4	2,922.06	1/4	3,262.26
1/2	199.31	1/2	540.69	1/2	881.99	1/2	1,222.97	1/2	1,564.36	1/2	1,905.75	1/2	2,247.14	1/2	2,588.56	1/2	2,929.15	1/2	3,269.33
3/4	206.42	3/4	547.80	3/4	889.09	3/4	1,230.08	3/4	1,571.47	3/4	1,912.86	3/4	2,254.25	3/4	2,595.67	3/4	2,936.25	3/4	3,276.41
9	213.53	9	554.92	9	896.19	9	1,237.20	9	1,578.59	9	1,919.98	9	2,261.37	9	2,602.78	9	2,943.34	9	3,283.49
1/4	220.64	1/4	562.03	1/4	903.29	1/4	1,244.31	1/4	1,585.70	1/4	1,927.09	1/4	2,268.48	1/4	2,609.89	1/4	2,950.44	1/4	3,290.56
1/2	227.76	1/2	569.14	1/2	910.39	1/2	1,251.42	1/2	1,592.81	1/2	1,934.20	1/2	2,275.59	1/2	2,616.99	1/2	2,957.53	1/2	3,297.64
3/4	234.87	3/4	576.25	3/4	917.49	3/4	1,258.53	3/4	1,599.92	3/4	1,941.31	3/4	2,282.70	3/4	2,624.10	3/4	2,964.63	3/4	3,304.72
10	241.98	10	583.37	10	924.58	10	1,265.64	10	1,607.03	10	1,948.43	10	2,289.82	10	2,631.20	10	2,971.72	10	3,311.79
1/4	249.09	1/4	590.48	1/4	931.68	1/4	1,272.76	1/4	1,614.15	1/4	1,955.54	1/4	2,296.93	1/4	2,638.29	1/4	2,978.81	1/4	3,318.87
1/2	256.20	1/2	597.59	1/2	938.78	1/2	1,279.87	1/2	1,621.26	1/2	1,962.65	1/2	2,304.04	1/2	2,645.39	1/2	2,985.91	1/2	3,325.95
3/4	263.32	3/4	604.70	3/4	945.88	3/4	1,286.98	3/4	1,628.37	3/4	1,969.76	3/4	2,311.15	3/4	2,652.48	3/4	2,993.00	3/4	3,333.03
11	270.43	11	611.81	11	952.98	11	1,294.09	11	1,635.48	11	1,976.87	11	2,318.26	11	2,659.58	11	3,000.10	11	3,340.10
1/4	277.54	1/4	618.93	1/4	960.07	1/4	1,301.21	1/4	1,642.60	1/4	1,983.99	1/4	2,325.38	1/4	2,666.67	1/4	3,007.19	1/4	3,345.80
1/2	284.65	1/2	626.04	1/2	967.17	1/2	1,308.32	1/2	1,649.71	1/2	1,991.10	1/2	2,332.49	1/2	2,673.76	1/2	3,014.29	1/2	3,351.51
3/4	291.77	3/4	633.15	3/4	974.27	3/4	1,315.43	3/4	1,656.82	3/4	1,998.21	3/4	2,339.60	3/4	2,680.86	3/4	3,021.38	3/4	3,357.21

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME.
 GAUGE POINT: (10" HATCH) LOCATED 3'-03" OFF CENTERLINE AND 82'-08" 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 "HSM 3310"

formerly the
BARGE "FMT 3310"

3 STBD
INNAGE TABLE
10" HATCH
GAUGE HEIGHT 18'-02 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,362.91	0	3,572.07	0	3,781.44	0	3,990.55	0	4,199.00	0	4,389.22	0		0		0		0	
1/4	3,367.23	1/4	3,576.43	1/4	3,785.80	1/4	3,994.89	1/4	4,203.35	1/4	4,390.92	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,371.56	1/2	3,580.79	1/2	3,790.16	1/2	3,999.23	1/2	4,207.69	1/2	4,392.63	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,375.89	3/4	3,585.15	3/4	3,794.52	3/4	4,003.57	3/4	4,212.03	3/4	4,394.33	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	3,380.21	1	3,589.51	1	3,798.89	1	4,007.92	1	4,216.38	1	4,396.04	1	1	1	1	1	1	1	1
1/4	3,384.56	1/4	3,593.88	1/4	3,803.25	1/4	4,012.26	1/4	4,220.72	1/4	4,397.74	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,388.90	1/2	3,598.24	1/2	3,807.61	1/2	4,016.60	1/2	4,225.06	1/2	4,399.44	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,393.25	3/4	3,602.60	3/4	3,811.97	3/4	4,020.95	3/4	4,229.40	3/4	4,401.15	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	3,397.59	2	3,606.96	2	3,816.33	2	4,025.29	2	4,233.75	2	4,402.85	2	2	2	2	2	2	2	2
1/4	3,401.95	1/4	3,611.32	1/4	3,820.69	1/4	4,029.63	1/4	4,238.09	1/4	4,403.93	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,406.31	1/2	3,615.69	1/2	3,825.06	1/2	4,033.97	1/2	4,242.43	1/2	4,405.00	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,410.68	3/4	3,620.05	3/4	3,829.42	3/4	4,038.32	3/4	4,246.78	3/4	4,406.07	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	3,415.04	3	3,624.41	3	3,833.78	3	4,042.66	3	4,251.12	3	4,407.15	3	3	3	3	3	3	3	3
1/4	3,419.40	1/4	3,628.77	1/4	3,838.14	1/4	4,047.00	1/4	4,255.46	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,423.76	1/2	3,633.13	1/2	3,842.50	1/2	4,051.35	1/2	4,259.81	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,428.12	3/4	3,637.50	3/4	3,846.87	3/4	4,055.69	3/4	4,264.15	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	3,432.49	4	3,641.86	4	3,851.23	4	4,060.03	4	4,268.49	4		4	4	4	4	4	4	4	4
1/4	3,436.85	1/4	3,646.22	1/4	3,855.59	1/4	4,064.37	1/4	4,272.82	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,441.21	1/2	3,650.58	1/2	3,859.95	1/2	4,068.72	1/2	4,277.15	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,445.57	3/4	3,654.94	3/4	3,864.31	3/4	4,073.06	3/4	4,281.48	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	3,449.93	5	3,659.30	5	3,868.68	5	4,077.40	5	4,285.81	5		5	5	5	5	5	5	5	5
1/4	3,454.30	1/4	3,663.67	1/4	3,873.04	1/4	4,081.75	1/4	4,290.12	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,458.66	1/2	3,668.03	1/2	3,877.40	1/2	4,086.09	1/2	4,294.44	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,463.02	3/4	3,672.39	3/4	3,881.76	3/4	4,090.43	3/4	4,298.75	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	3,467.38	6	3,676.75	6	3,886.12	6	4,094.77	6	4,303.07	6		6	6	6	6	6	6	6	6
1/4	3,471.74	1/4	3,681.11	1/4	3,890.49	1/4	4,099.12	1/4	4,307.38	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,476.10	1/2	3,685.48	1/2	3,894.85	1/2	4,103.46	1/2	4,311.70	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,480.47	3/4	3,689.84	3/4	3,899.21	3/4	4,107.80	3/4	4,316.01	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	3,484.83	7	3,694.20	7	3,903.57	7	4,112.15	7	4,320.32	7		7	7	7	7	7	7	7	7
1/4	3,489.19	1/4	3,698.56	1/4	3,907.93	1/4	4,116.49	1/4	4,324.63	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,493.55	1/2	3,702.92	1/2	3,912.29	1/2	4,120.83	1/2	4,328.94	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,497.91	3/4	3,707.29	3/4	3,916.66	3/4	4,125.18	3/4	4,333.24	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	3,502.28	8	3,711.65	8	3,921.02	8	4,129.52	8	4,337.55	8		8	8	8	8	8	8	8	8
1/4	3,506.64	1/4	3,716.01	1/4	3,925.37	1/4	4,133.86	1/4	4,341.83	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,511.00	1/2	3,720.37	1/2	3,929.72	1/2	4,138.20	1/2	4,346.10	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,515.36	3/4	3,724.73	3/4	3,934.08	3/4	4,142.55	3/4	4,350.37	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	3,519.72	9	3,729.09	9	3,938.43	9	4,146.89	9	4,354.65	9		9	9	9	9	9	9	9	9
1/4	3,524.09	1/4	3,733.46	1/4	3,942.77	1/4	4,151.23	1/4	4,358.48	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,528.45	1/2	3,737.82	1/2	3,947.12	1/2	4,155.58	1/2	4,362.32	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,532.81	3/4	3,742.18	3/4	3,951.46	3/4	4,159.92	3/4	4,366.16	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	3,537.17	10	3,746.54	10	3,955.80	10	4,164.26	10	4,369.99	10		10	10	10	10	10	10	10	10
1/4	3,541.53	1/4	3,750.90	1/4	3,960.15	1/4	4,168.60	1/4	4,372.83	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,545.90	1/2	3,755.27	1/2	3,964.49	1/2	4,172.95	1/2	4,375.66	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,550.26	3/4	3,759.63	3/4	3,968.83	3/4	4,177.29	3/4	4,378.50	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	3,554.62	11	3,763.99	11	3,973.17	11	4,181.63	11	4,381.33	11		11	11	11	11	11	11	11	11
1/4	3,558.98	1/4	3,768.35	1/4	3,977.52	1/4	4,185.98	1/4	4,383.30	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,563.34	1/2	3,772.71	1/2	3,981.86	1/2	4,190.32	1/2	4,385.27	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,567.70	3/4	3,777.08	3/4	3,986.20	3/4	4,194.66	3/4	4,387.25	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: 07/15/2020 CL
CALCULATED: 07/16/2020 CL
PRINTED: 07/16/2020 JS

PRECISION MEASUREMENT
& ANALYSIS, INC.

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

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2020

BARGE "HSM 3310"

formerly the

BARGE "FMT 3310"

ULLAGE (10" HATCH)



	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	- 02-0/8	02-0/8	- 04-0/8	04-0/8	- 06-0/8	06-0/8	- 08-1/8	08-1/8	- 10-1/8	10-1/8	- 12-1/8	12-1/8
1 STBD	- 02-0/8	02-0/8	- 04-0/8	04-0/8	- 06-0/8	06-0/8	- 08-1/8	08-1/8	- 10-1/8	10-1/8	- 12-1/8	12-1/8
2 PORT	- 02-0/8	02-0/8	- 04-0/8	04-0/8	- 06-1/8	06-1/8	- 08-1/8	08-1/8	- 10-1/8	10-1/8	- 12-1/8	12-1/8
2 STBD	- 02-0/8	02-0/8	- 04-0/8	04-0/8	- 06-1/8	06-1/8	- 08-1/8	08-1/8	- 10-1/8	10-1/8	- 12-1/8	12-1/8
3 PORT	02-0/8	- 02-0/8	04-0/8	- 04-0/8	06-0/8	- 06-0/8	08-0/8	- 08-0/8	10-1/8	- 10-1/8	12-1/8	- 12-1/8
3 STBD	02-0/8	- 02-0/8	04-0/8	- 04-0/8	06-0/8	- 06-0/8	08-0/8	- 08-0/8	10-1/8	- 10-1/8	12-1/8	- 12-1/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 2'-00"
 AFT DRAFT = 6'-00"
 DIFF. = 4'-00" (DOWN BY STERN)

THE CORRECTION FOR 4'-00" TRIM DOWN BY STERN FOR 1 PORT IS 08-1/8"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 4'-08 1/8"

LENGTH BETWEEN DRAFT MARKS: 237'-03"

July 15, 2020

**PRECISION MEASUREMENT
& ANALYSIS, INC.**

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HSM 3310"
formerly the
BARGE "FMT 3310"

1 PORT
ULLAGE TABLE

10" HATCH
GAUGE HEIGHT 18'-02 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.		
0		0		0		0	5,039.46	0	4,760.33	0	4,418.75	0	4,076.36	0	3,733.21	0	3,390.13	0	3,047.08		
1/4		1/4		1/4		1/4	5,038.53	1/4	4,753.22	1/4	4,411.64	1/4	4,069.21	1/4	3,726.06	1/4	3,382.98	1/4	3,039.93		
1/2		1/2		1/2		1/2	5,036.53	1/2	4,746.10	1/2	4,404.52	1/2	4,062.06	1/2	3,718.91	1/2	3,375.84	1/2	3,032.78		
3/4		3/4		3/4		3/4	5,034.52	3/4	4,738.99	3/4	4,397.40	3/4	4,054.91	3/4	3,711.76	3/4	3,368.69	3/4	3,025.63		
1		1		1		1	5,032.51	1	4,731.87	1	4,390.29	1	4,047.76	1	3,704.61	1	3,361.54	1	3,018.49		
1/4		1/4		1/4		1/4	5,030.50	1/4	4,724.75	1/4	4,383.17	1/4	4,040.62	1/4	3,697.46	1/4	3,354.40	1/4	3,011.34		
1/2		1/2		1/2		1/2	5,027.31	1/2	4,717.64	1/2	4,376.05	1/2	4,033.47	1/2	3,690.31	1/2	3,347.25	1/2	3,004.19		
3/4		3/4		3/4		3/4	5,024.11	3/4	4,710.52	3/4	4,368.94	3/4	4,026.32	3/4	3,683.17	3/4	3,340.10	3/4	2,997.04		
2		2		2		2	5,020.91	2	4,703.40	2	4,361.82	2	4,019.17	2	3,676.02	2	3,332.96	2	2,989.89		
1/4		1/4		1/4		1/4	5,017.71	1/4	4,696.29	1/4	4,354.71	1/4	4,012.02	1/4	3,668.87	1/4	3,325.81	1/4	2,982.74		
1/2		1/2		1/2		1/2	5,013.32	1/2	4,689.17	1/2	4,347.59	1/2	4,004.87	1/2	3,661.72	1/2	3,318.66	1/2	2,975.60		
3/4		3/4		3/4		3/4	5,008.93	3/4	4,682.06	3/4	4,340.47	3/4	3,997.72	3/4	3,654.57	3/4	3,311.51	3/4	2,968.45		
3		3		3		3	5,004.54	3	4,674.94	3	4,333.36	3	3,990.57	3	3,647.42	3	3,304.37	3	2,961.30		
1/4		1/4		1/4		1/4	5,000.15	1/4	4,667.82	1/4	4,326.24	1/4	3,983.42	1/4	3,640.27	1/4	3,297.22	1/4	2,954.15		
1/2		1/2		1/2		1/2	4,994.57	1/2	4,660.71	1/2	4,319.12	1/2	3,976.27	1/2	3,633.13	1/2	3,290.07	1/2	2,947.00		
3/4		3/4		3/4		3/4	4,988.99	3/4	4,653.59	3/4	4,312.01	3/4	3,969.13	3/4	3,625.98	3/4	3,282.93	3/4	2,939.85		
4		4		4		4	4,983.40	4	4,646.47	4	4,304.89	4	3,961.98	4	3,618.83	4	3,275.78	4	2,932.70		
1/4		1/4		1/4		1/4	4,977.82	1/4	4,639.36	1/4	4,297.77	1/4	3,954.83	1/4	3,611.69	1/4	3,268.63	1/4	2,925.55		
1/2		1/2		1/2		1/2	4,971.23	1/2	4,632.24	1/2	4,290.66	1/2	3,947.68	1/2	3,604.54	1/2	3,261.49	1/2	2,918.41		
3/4		3/4		3/4		3/4	4,964.64	3/4	4,625.12	3/4	4,283.54	3/4	3,940.53	3/4	3,597.39	3/4	3,254.34	3/4	2,911.26		
5		5		5		5	4,958.05	5	4,618.01	5	4,276.43	5	3,933.38	5	3,590.25	5	3,247.19	5	2,904.11		
1/4		1/4		1/4		1/4	4,951.46	1/4	4,610.89	1/4	4,269.31	1/4	3,926.23	1/4	3,583.10	1/4	3,240.04	1/4	2,896.96		
1/2		1/2		1/2		1/2	4,944.43	1/2	4,603.78	1/2	4,262.18	1/2	3,919.08	1/2	3,575.95	1/2	3,232.90	1/2	2,889.81		
3/4		3/4		3/4		3/4	4,937.40	3/4	4,596.66	3/4	4,255.05	3/4	3,911.93	3/4	3,568.81	3/4	3,225.75	3/4	2,882.66		
6		6		6		6	4,930.37	6	4,589.54	6	4,247.92	6	3,904.78	6	3,561.66	6	3,218.60	6	2,875.51		
1/4		1/4		1/4		1/4	4,923.34	1/4	4,582.43	1/4	4,240.79	1/4	3,897.64	1/4	3,554.51	1/4	3,211.46	1/4	2,868.36		
1/2		1/2		1/2		1/2	4,916.28	1/2	4,575.31	1/2	4,233.64	1/2	3,890.49	1/2	3,547.37	1/2	3,204.31	1/2	2,861.21		
3/4		3/4		3/4		3/4	4,909.22	3/4	4,568.19	3/4	4,226.49	3/4	3,883.34	3/4	3,540.22	3/4	3,197.16	3/4	2,854.07		
7		7		7		7	4,902.15	7	4,561.08	7	4,219.34	7	3,876.19	7	3,533.07	7	3,190.02	7	2,846.92		
1/4		1/4		1/4		1/4	4,895.09	1/4	4,553.96	1/4	4,212.19	1/4	3,869.04	1/4	3,525.92	1/4	3,182.87	1/4	2,839.77		
1/2		1/2		1/2		1/2	4,888.02	1/2	4,546.85	1/2	4,205.04	1/2	3,861.89	1/2	3,518.78	1/2	3,175.72	1/2	2,832.62		
3/4		3/4		3/4		3/4	4,880.95	3/4	4,539.73	3/4	4,197.89	3/4	3,854.74	3/4	3,511.63	3/4	3,168.57	3/4	2,825.47		
8		8		8		8	4,873.87	8	4,532.61	8	4,190.74	8	3,847.59	8	3,504.48	8	3,161.43	8	2,818.32		
1/4		1/4		1/4		1/4	4,866.80	1/4	4,525.50	1/4	4,183.60	1/4	3,840.44	1/4	3,497.34	1/4	3,154.28	1/4	2,811.17		
1/2		1/2		1/2		1/2	4,859.73	1/2	4,518.38	1/2	4,176.45	1/2	3,833.29	1/2	3,490.19	1/2	3,147.13	1/2	2,804.02		
3/4		3/4		3/4		3/4	4,852.66	3/4	4,511.26	3/4	4,169.30	3/4	3,826.15	3/4	3,483.04	3/4	3,139.99	3/4	2,796.88		
9		9		9		9	4,845.59	9	4,504.15	9	4,162.15	9	3,819.00	9	3,475.90	9	3,132.84	9	2,789.73		
1/4		1/4		1/4		1/4	4,838.52	1/4	4,497.03	1/4	4,155.00	1/4	3,811.85	1/4	3,468.75	1/4	3,125.69	1/4	2,782.58		
1/2		1/2		1/2		1/2	4,831.43	1/2	4,489.91	1/2	4,147.85	1/2	3,804.70	1/2	3,461.60	1/2	3,118.55	1/2	2,775.43		
3/4		3/4		3/4		3/4	4,824.33	3/4	4,482.80	3/4	4,140.70	3/4	3,797.55	3/4	3,454.45	3/4	3,111.40	3/4	2,768.28		
10		10		10		10	4,817.24	10	4,475.68	10	4,133.55	10	3,790.40	10	3,447.31	10	3,104.25	10	2,761.13		
1/4		1/4		1/4		1/4	4,810.15	1/4	4,468.57	1/4	4,126.40	1/4	3,783.25	1/4	3,440.16	1/4	3,097.10	1/4	2,753.98		
1/2		1/2		1/2		1/2	4,803.03	1/2	4,461.45	1/2	4,119.25	1/2	3,776.10	1/2	3,433.01	1/2	3,089.96	1/2	2,746.83		
3/4		3/4		3/4		3/4	4,795.92	3/4	4,454.33	3/4	4,112.11	3/4	3,768.95	3/4	3,425.87	3/4	3,082.81	3/4	2,739.69		
11		11		11		11	4,788.80	11	4,447.22	11	4,104.96	11	3,761.80	11	3,418.72	11	3,075.66	11	2,732.54		
1/4		1/4		1/4		1/4	5,042.25	1/4	4,781.68	1/4	4,440.10	1/4	4,097.81	1/4	3,754.66	1/4	3,411.57	1/4	3,068.52	1/4	2,725.39
1/2		1/2		1/2		1/2	5,041.32	1/2	4,774.57	1/2	4,432.98	1/2	4,090.66	1/2	3,747.51	1/2	3,404.43	1/2	3,061.37	1/2	2,718.24
3/4		3/4		3/4		3/4	5,040.39	3/4	4,767.45	3/4	4,425.87	3/4	4,083.51	3/4	3,740.36	3/4	3,397.28	3/4	3,054.22	3/4	2,711.09

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 10" HATCH ON EXPANSION DOME.
GAUGE POINT: (10" HATCH) LOCATED 3'-03" OFF CENTERLINE AND 3'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "HSM 3310"

formerly the
BARGE "FMT 3310"

1 PORT
ULLAGE TABLE
10" HATCH
GAUGE HEIGHT 18'-02 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,703.94	0	2,360.77	0	2,017.61	0	1,674.44	0	1,331.28	0	988.76	0	647.58	0	311.06	0	24.36	0	
1/4	2,696.79	1/4	2,353.63	1/4	2,010.46	1/4	1,667.29	1/4	1,324.13	1/4	981.67	1/4	640.43	1/4	304.41	1/4	20.51	1/4	
1/2	2,689.64	1/2	2,346.48	1/2	2,003.31	1/2	1,660.14	1/2	1,316.98	1/2	974.58	1/2	633.28	1/2	297.84	1/2	17.70	1/2	
3/4	2,682.49	3/4	2,339.33	3/4	1,996.16	3/4	1,652.99	3/4	1,309.83	3/4	967.49	3/4	626.13	3/4	291.28	3/4	14.90	3/4	
1	2,675.35	1	2,332.18	1	1,989.01	1	1,645.84	1	1,302.68	1	960.40	1	618.98	1	284.72	1	12.10	1	
1/4	2,668.20	1/4	2,325.03	1/4	1,981.86	1/4	1,638.70	1/4	1,295.53	1/4	953.31	1/4	611.83	1/4	278.15	1/4	9.30	1/4	
1/2	2,661.05	1/2	2,317.88	1/2	1,974.71	1/2	1,631.55	1/2	1,288.38	1/2	946.22	1/2	604.68	1/2	271.67	1/2	7.51	1/2	
3/4	2,653.90	3/4	2,310.73	3/4	1,967.56	3/4	1,624.40	3/4	1,281.23	3/4	939.14	3/4	597.53	3/4	265.19	3/4	5.72	3/4	
2	2,646.75	2	2,303.58	2	1,960.41	2	1,617.25	2	1,274.08	2	932.05	2	590.38	2	258.71	2	3.94	2	
1/4	2,639.60	1/4	2,296.43	1/4	1,953.26	1/4	1,610.10	1/4	1,266.93	1/4	924.96	1/4	583.23	1/4	252.23	1/4	2.15	1/4	
1/2	2,632.45	1/2	2,289.28	1/2	1,946.12	1/2	1,602.95	1/2	1,259.78	1/2	917.87	1/2	576.08	1/2	245.83	1/2		1/2	
3/4	2,625.30	3/4	2,282.13	3/4	1,938.97	3/4	1,595.80	3/4	1,252.63	3/4	910.78	3/4	568.94	3/4	239.43	3/4		3/4	
3	2,618.15	3	2,274.98	3	1,931.82	3	1,588.65	3	1,245.48	3	903.69	3	561.79	3	233.04	3		3	
1/4	2,611.00	1/4	2,267.83	1/4	1,924.67	1/4	1,581.50	1/4	1,238.33	1/4	896.60	1/4	554.64	1/4	226.64	1/4		1/4	
1/2	2,603.85	1/2	2,260.68	1/2	1,917.52	1/2	1,574.35	1/2	1,231.19	1/2	889.51	1/2	547.49	1/2	220.32	1/2		1/2	
3/4	2,596.70	3/4	2,253.54	3/4	1,910.37	3/4	1,567.20	3/4	1,224.04	3/4	882.42	3/4	540.34	3/4	214.01	3/4		3/4	
4	2,589.55	4	2,246.39	4	1,903.22	4	1,560.05	4	1,216.89	4	875.34	4	533.19	4	207.70	4		4	
1/4	2,582.40	1/4	2,239.24	1/4	1,896.07	1/4	1,552.90	1/4	1,209.74	1/4	868.25	1/4	526.04	1/4	201.38	1/4		1/4	
1/2	2,575.25	1/2	2,232.09	1/2	1,888.92	1/2	1,545.75	1/2	1,202.59	1/2	861.16	1/2	518.89	1/2	195.15	1/2		1/2	
3/4	2,568.10	3/4	2,224.94	3/4	1,881.77	3/4	1,538.61	3/4	1,195.44	3/4	854.07	3/4	511.74	3/4	188.92	3/4		3/4	
5	2,560.96	5	2,217.79	5	1,874.62	5	1,531.46	5	1,188.29	5	846.98	5	504.59	5	182.69	5		5	
1/4	2,553.81	1/4	2,210.64	1/4	1,867.47	1/4	1,524.31	1/4	1,181.14	1/4	839.89	1/4	497.44	1/4	176.64	1/4		1/4	
1/2	2,546.66	1/2	2,203.49	1/2	1,860.32	1/2	1,517.16	1/2	1,173.99	1/2	832.80	1/2	490.32	1/2	170.32	1/2		1/2	
3/4	2,539.51	3/4	2,196.34	3/4	1,853.17	3/4	1,510.01	3/4	1,166.84	3/4	825.71	3/4	483.19	3/4	164.17	3/4		3/4	
6	2,532.36	6	2,189.19	6	1,846.03	6	1,502.86	6	1,159.69	6	818.63	6	476.07	6	158.02	6		6	
1/4	2,525.21	1/4	2,182.04	1/4	1,838.88	1/4	1,495.71	1/4	1,152.54	1/4	811.54	1/4	468.94	1/4	151.88	1/4		1/4	
1/2	2,518.06	1/2	2,174.89	1/2	1,831.73	1/2	1,488.56	1/2	1,145.39	1/2	804.44	1/2	461.88	1/2	145.81	1/2		1/2	
3/4	2,510.91	3/4	2,167.74	3/4	1,824.58	3/4	1,481.41	3/4	1,138.24	3/4	797.35	3/4	454.82	3/4	139.75	3/4		3/4	
7	2,503.76	7	2,160.59	7	1,817.43	7	1,474.26	7	1,131.10	7	790.26	7	447.76	7	133.69	7		7	
1/4	2,496.61	1/4	2,153.45	1/4	1,810.28	1/4	1,467.11	1/4	1,123.95	1/4	783.17	1/4	440.70	1/4	127.62	1/4		1/4	
1/2	2,489.46	1/2	2,146.30	1/2	1,803.13	1/2	1,459.96	1/2	1,116.80	1/2	776.06	1/2	433.72	1/2	121.64	1/2		1/2	
3/4	2,482.31	3/4	2,139.15	3/4	1,795.98	3/4	1,452.81	3/4	1,109.65	3/4	768.95	3/4	426.74	3/4	115.66	3/4		3/4	
8	2,475.16	8	2,132.00	8	1,788.83	8	1,445.66	8	1,102.50	8	761.85	8	419.76	8	109.69	8		8	
1/4	2,468.01	1/4	2,124.85	1/4	1,781.68	1/4	1,438.52	1/4	1,095.35	1/4	754.74	1/4	412.78	1/4	103.71	1/4		1/4	
1/2	2,460.87	1/2	2,117.70	1/2	1,774.53	1/2	1,431.37	1/2	1,088.22	1/2	747.61	1/2	405.88	1/2	97.82	1/2		1/2	
3/4	2,453.72	3/4	2,110.55	3/4	1,767.38	3/4	1,424.22	3/4	1,081.08	3/4	740.48	3/4	398.98	3/4	91.93	3/4		3/4	
9	2,446.57	9	2,103.40	9	1,760.23	9	1,417.07	9	1,073.95	9	733.35	9	392.09	9	86.04	9		9	
1/4	2,439.42	1/4	2,096.25	1/4	1,753.08	1/4	1,409.92	1/4	1,066.82	1/4	726.22	1/4	385.19	1/4	80.15	1/4		1/4	
1/2	2,432.27	1/2	2,089.10	1/2	1,745.94	1/2	1,402.77	1/2	1,059.71	1/2	719.07	1/2	378.37	1/2	74.36	1/2		1/2	
3/4	2,425.12	3/4	2,081.95	3/4	1,738.79	3/4	1,395.62	3/4	1,052.61	3/4	711.92	3/4	371.56	3/4	68.57	3/4		3/4	
10	2,417.97	10	2,074.80	10	1,731.64	10	1,388.47	10	1,045.50	10	704.77	10	364.74	10	62.78	10		10	
1/4	2,410.82	1/4	2,067.65	1/4	1,724.49	1/4	1,381.32	1/4	1,038.40	1/4	697.62	1/4	357.93	1/4	56.99	1/4		1/4	
1/2	2,403.67	1/2	2,060.50	1/2	1,717.34	1/2	1,374.17	1/2	1,031.30	1/2	690.47	1/2	351.20	1/2	51.73	1/2		1/2	
3/4	2,396.52	3/4	2,053.36	3/4	1,710.19	3/4	1,367.02	3/4	1,024.21	3/4	683.32	3/4	344.46	3/4	46.46	3/4		3/4	
11	2,389.37	11	2,046.21	11	1,703.04	11	1,359.87	11	1,017.12	11	676.17	11	337.73	11	41.20	11		11	
1/4	2,382.22	1/4	2,039.06	1/4	1,695.89	1/4	1,352.72	1/4	1,010.02	1/4	669.02	1/4	331.00	1/4	35.94	1/4		1/4	
1/2	2,375.07	1/2	2,031.91	1/2	1,688.74	1/2	1,345.57	1/2	1,002.94	1/2	661.87	1/2	324.35	1/2	32.08	1/2		1/2	
3/4	2,367.92	3/4	2,024.76	3/4	1,681.59	3/4	1,338.43	3/4	995.85	3/4	654.72	3/4	317.71	3/4	28.22	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/15/2020 CL
CALCULATED: 07/16/2020 CL
PRINTED: 07/16/2020 JS

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

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2020





BARGE "HSM 3310"
formerly the
BARGE "FMT 3310"

1 STBD
ULLAGE TABLE

10" HATCH
GAUGE HEIGHT 18'-02"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	5,035.04	0	4,750.05	0	4,408.87	0	4,066.84	0	3,724.08	0	3,381.40	0	3,038.75
1/4		1/4		1/4		1/4	5,033.03	1/4	4,742.94	1/4	4,401.76	1/4	4,059.70	1/4	3,716.94	1/4	3,374.26	1/4	3,031.61
1/2		1/2		1/2		1/2	5,031.03	1/2	4,735.84	1/2	4,394.65	1/2	4,052.56	1/2	3,709.80	1/2	3,367.13	1/2	3,024.47
3/4		3/4		3/4		3/4	5,029.02	3/4	4,728.73	3/4	4,387.54	3/4	4,045.42	3/4	3,702.66	3/4	3,359.99	3/4	3,017.33
1		1		1		1	5,027.02	1	4,721.62	1	4,380.44	1	4,038.28	1	3,695.52	1	3,352.85	1	3,010.19
1/4		1/4		1/4		1/4	5,023.82	1/4	4,714.51	1/4	4,373.33	1/4	4,031.13	1/4	3,688.38	1/4	3,345.71	1/4	3,003.05
1/2		1/2		1/2		1/2	5,020.63	1/2	4,707.40	1/2	4,366.22	1/2	4,023.99	1/2	3,681.24	1/2	3,338.57	1/2	2,995.91
3/4		3/4		3/4		3/4	5,017.43	3/4	4,700.30	3/4	4,359.11	3/4	4,016.85	3/4	3,674.10	3/4	3,331.43	3/4	2,988.77
2		2		2		2	5,014.24	2	4,693.19	2	4,352.00	2	4,009.71	2	3,666.96	2	3,324.29	2	2,981.63
1/4		1/4		1/4		1/4	5,009.85	1/4	4,686.08	1/4	4,344.90	1/4	4,002.57	1/4	3,659.82	1/4	3,317.16	1/4	2,974.49
1/2		1/2		1/2		1/2	5,005.47	1/2	4,678.97	1/2	4,337.79	1/2	3,995.43	1/2	3,652.68	1/2	3,310.02	1/2	2,967.35
3/4		3/4		3/4		3/4	5,001.08	3/4	4,671.86	3/4	4,330.68	3/4	3,988.29	3/4	3,645.54	3/4	3,302.88	3/4	2,960.21
3		3		3		3	4,996.70	3	4,664.76	3	4,323.57	3	3,981.15	3	3,638.40	3	3,295.74	3	2,953.07
1/4		1/4		1/4		1/4	4,991.12	1/4	4,657.65	1/4	4,316.46	1/4	3,974.01	1/4	3,631.26	1/4	3,288.60	1/4	2,945.93
1/2		1/2		1/2		1/2	4,985.55	1/2	4,650.54	1/2	4,309.36	1/2	3,966.87	1/2	3,624.12	1/2	3,281.46	1/2	2,938.79
3/4		3/4		3/4		3/4	4,979.97	3/4	4,643.43	3/4	4,302.25	3/4	3,959.73	3/4	3,616.98	3/4	3,274.32	3/4	2,931.65
4		4		4		4	4,974.40	4	4,636.32	4	4,295.14	4	3,952.59	4	3,609.84	4	3,267.18	4	2,924.51
1/4		1/4		1/4		1/4	4,967.81	1/4	4,629.22	1/4	4,288.03	1/4	3,945.45	1/4	3,602.70	1/4	3,260.05	1/4	2,917.37
1/2		1/2		1/2		1/2	4,961.23	1/2	4,622.11	1/2	4,280.92	1/2	3,938.31	1/2	3,595.56	1/2	3,252.91	1/2	2,910.22
3/4		3/4		3/4		3/4	4,954.65	3/4	4,615.00	3/4	4,273.82	3/4	3,931.17	3/4	3,588.43	3/4	3,245.77	3/4	2,903.08
5		5		5		5	4,948.07	5	4,607.89	5	4,266.71	5	3,924.02	5	3,581.29	5	3,238.63	5	2,895.94
1/4		1/4		1/4		1/4	4,941.05	1/4	4,600.78	1/4	4,259.59	1/4	3,916.88	1/4	3,574.15	1/4	3,231.49	1/4	2,888.80
1/2		1/2		1/2		1/2	4,934.02	1/2	4,593.68	1/2	4,252.46	1/2	3,909.74	1/2	3,567.01	1/2	3,224.35	1/2	2,881.66
3/4		3/4		3/4		3/4	4,927.00	3/4	4,586.57	3/4	4,245.34	3/4	3,902.60	3/4	3,559.87	3/4	3,217.21	3/4	2,874.52
6		6		6		6	4,919.98	6	4,579.46	6	4,238.22	6	3,895.46	6	3,552.73	6	3,210.07	6	2,867.38
1/4		1/4		1/4		1/4	4,912.93	1/4	4,572.35	1/4	4,231.07	1/4	3,888.32	1/4	3,545.59	1/4	3,202.94	1/4	2,860.24
1/2		1/2		1/2		1/2	4,905.87	1/2	4,565.24	1/2	4,223.93	1/2	3,881.18	1/2	3,538.46	1/2	3,195.80	1/2	2,853.10
3/4		3/4		3/4		3/4	4,898.81	3/4	4,558.14	3/4	4,216.79	3/4	3,874.04	3/4	3,531.32	3/4	3,188.66	3/4	2,845.96
7		7		7		7	4,891.76	7	4,551.03	7	4,209.65	7	3,866.90	7	3,524.18	7	3,181.52	7	2,838.82
1/4		1/4		1/4		1/4	4,884.70	1/4	4,543.92	1/4	4,202.51	1/4	3,859.76	1/4	3,517.04	1/4	3,174.38	1/4	2,831.68
1/2		1/2		1/2		1/2	4,877.64	1/2	4,536.81	1/2	4,195.37	1/2	3,852.62	1/2	3,509.90	1/2	3,167.24	1/2	2,824.54
3/4		3/4		3/4		3/4	4,870.57	3/4	4,529.70	3/4	4,188.23	3/4	3,845.48	3/4	3,502.76	3/4	3,160.10	3/4	2,817.40
8		8		8		8	4,863.51	8	4,522.60	8	4,181.09	8	3,838.34	8	3,495.62	8	3,152.97	8	2,810.26
1/4		1/4		1/4		1/4	4,856.45	1/4	4,515.49	1/4	4,173.95	1/4	3,831.20	1/4	3,488.48	1/4	3,145.83	1/4	2,803.12
1/2		1/2		1/2		1/2	4,849.38	1/2	4,508.38	1/2	4,166.81	1/2	3,824.05	1/2	3,481.35	1/2	3,138.69	1/2	2,795.97
3/4		3/4		3/4		3/4	4,842.32	3/4	4,501.27	3/4	4,159.67	3/4	3,816.91	3/4	3,474.21	3/4	3,131.55	3/4	2,788.83
9		9		9		9	4,835.26	9	4,494.16	9	4,152.53	9	3,809.77	9	3,467.07	9	3,124.41	9	2,781.69
1/4		1/4		1/4		1/4	4,828.17	1/4	4,487.06	1/4	4,145.39	1/4	3,802.63	1/4	3,459.93	1/4	3,117.27	1/4	2,774.55
1/2		1/2		1/2		1/2	4,821.09	1/2	4,479.95	1/2	4,138.25	1/2	3,795.49	1/2	3,452.79	1/2	3,110.13	1/2	2,767.41
3/4		3/4		3/4		3/4	4,814.00	3/4	4,472.84	3/4	4,131.10	3/4	3,788.35	3/4	3,445.65	3/4	3,102.99	3/4	2,760.27
10		10		10		10	4,806.92	10	4,465.73	10	4,123.96	10	3,781.21	10	3,438.51	10	3,095.86	10	2,753.13
1/4		1/4		1/4		1/4	4,799.81	1/4	4,458.62	1/4	4,116.82	1/4	3,774.07	1/4	3,431.37	1/4	3,088.72	1/4	2,745.99
1/2		1/2		1/2		1/2	4,792.70	1/2	4,451.52	1/2	4,109.68	1/2	3,766.93	1/2	3,424.24	1/2	3,081.58	1/2	2,738.85
3/4		3/4		3/4		3/4	4,785.59	3/4	4,444.41	3/4	4,102.54	3/4	3,759.79	3/4	3,417.10	3/4	3,074.44	3/4	2,731.71
11		11		11	5,038.75	11	4,778.48	11	4,437.30	11	4,095.40	11	3,752.65	11	3,409.96	11	3,067.30	11	2,724.57
1/4		1/4		1/4	5,037.82	1/4	4,771.38	1/4	4,430.19	1/4	4,088.26	1/4	3,745.51	1/4	3,402.82	1/4	3,060.16	1/4	2,717.43
1/2		1/2		1/2	5,036.89	1/2	4,764.27	1/2	4,423.08	1/2	4,081.12	1/2	3,738.37	1/2	3,395.68	1/2	3,053.02	1/2	2,710.29
3/4		3/4		3/4	5,035.97	3/4	4,757.16	3/4	4,415.98	3/4	4,073.98	3/4	3,731.23	3/4	3,388.54	3/4	3,045.88	3/4	2,703.15

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 10" HATCH ON EXPANSION DOME.
GAUGE POINT: (10" HATCH) LOCATED 3'-03" OFF CENTERLINE AND 3'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "HSM 3310"

formerly the

BARGE "FMT 3310"

1 STBD
ULLAGE TABLE
10" HATCH
GAUGE HEIGHT 18'-02"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,696.01	0	2,353.24	0	2,010.47	0	1,667.70	0	1,324.93	0	982.21	0	639.68	0	304.01	0	20.48	0	
1/4	2,688.87	1/4	2,346.10	1/4	2,003.33	1/4	1,660.56	1/4	1,317.78	1/4	975.08	1/4	632.54	1/4	297.46	1/4	17.68	1/4	
1/2	2,681.73	1/2	2,338.96	1/2	1,996.19	1/2	1,653.42	1/2	1,310.64	1/2	967.94	1/2	625.40	1/2	290.90	1/2	14.88	1/2	
3/4	2,674.58	3/4	2,331.82	3/4	1,989.05	3/4	1,646.28	3/4	1,303.50	3/4	960.81	3/4	618.26	3/4	284.35	3/4	12.08	3/4	
1	2,667.44	1	2,324.68	1	1,981.91	1	1,639.13	1	1,296.36	1	953.68	1	611.11	1	277.79	1	9.29	1	
1/4	2,660.30	1/4	2,317.54	1/4	1,974.77	1/4	1,631.99	1/4	1,289.22	1/4	946.55	1/4	603.97	1/4	271.32	1/4	7.50	1/4	
1/2	2,653.16	1/2	2,310.40	1/2	1,967.62	1/2	1,624.85	1/2	1,282.08	1/2	939.42	1/2	596.83	1/2	264.84	1/2	5.72	1/2	
3/4	2,646.02	3/4	2,303.26	3/4	1,960.48	3/4	1,617.71	3/4	1,274.94	3/4	932.28	3/4	589.69	3/4	258.37	3/4	3.93	3/4	
2	2,638.88	2	2,296.12	2	1,953.34	2	1,610.57	2	1,267.80	2	925.15	2	582.55	2	251.90	2	2.15	2	
1/4	2,631.74	1/4	2,288.97	1/4	1,946.20	1/4	1,603.43	1/4	1,260.66	1/4	918.02	1/4	575.41	1/4	245.51	1/4		1/4	
1/2	2,624.60	1/2	2,281.83	1/2	1,939.06	1/2	1,596.29	1/2	1,253.51	1/2	910.89	1/2	568.27	1/2	239.12	1/2		1/2	
3/4	2,617.46	3/4	2,274.69	3/4	1,931.92	3/4	1,589.15	3/4	1,246.37	3/4	903.75	3/4	561.13	3/4	232.73	3/4		3/4	
3	2,610.32	3	2,267.55	3	1,924.78	3	1,582.01	3	1,239.23	3	896.62	3	553.99	3	226.34	3		3	
1/4	2,603.18	1/4	2,260.41	1/4	1,917.64	1/4	1,574.86	1/4	1,232.09	1/4	889.49	1/4	546.85	1/4	220.03	1/4		1/4	
1/2	2,596.04	1/2	2,253.27	1/2	1,910.50	1/2	1,567.72	1/2	1,224.95	1/2	882.36	1/2	539.71	1/2	213.73	1/2		1/2	
3/4	2,588.90	3/4	2,246.13	3/4	1,903.35	3/4	1,560.58	3/4	1,217.81	3/4	875.23	3/4	532.56	3/4	207.42	3/4		3/4	
4	2,581.76	4	2,238.99	4	1,896.21	4	1,553.44	4	1,210.67	4	868.09	4	525.42	4	201.12	4		4	
1/4	2,574.62	1/4	2,231.85	1/4	1,889.07	1/4	1,546.30	1/4	1,203.53	1/4	860.96	1/4	518.28	1/4	194.89	1/4		1/4	
1/2	2,567.48	1/2	2,224.70	1/2	1,881.93	1/2	1,539.16	1/2	1,196.39	1/2	853.83	1/2	511.14	1/2	188.67	1/2		1/2	
3/4	2,560.34	3/4	2,217.56	3/4	1,874.79	3/4	1,532.02	3/4	1,189.24	3/4	846.70	3/4	504.00	3/4	182.45	3/4		3/4	
5	2,553.19	5	2,210.42	5	1,867.65	5	1,524.88	5	1,182.10	5	839.57	5	496.86	5	176.23	5		5	
1/4	2,546.05	1/4	2,203.28	1/4	1,860.51	1/4	1,517.74	1/4	1,174.96	1/4	832.43	1/4	489.74	1/4	170.09	1/4		1/4	
1/2	2,538.91	1/2	2,196.14	1/2	1,853.37	1/2	1,510.59	1/2	1,167.82	1/2	825.30	1/2	482.62	1/2	163.95	1/2		1/2	
3/4	2,531.77	3/4	2,189.00	3/4	1,846.23	3/4	1,503.45	3/4	1,160.68	3/4	818.17	3/4	475.50	3/4	157.81	3/4		3/4	
6	2,524.63	6	2,181.86	6	1,839.08	6	1,496.31	6	1,153.54	6	811.04	6	468.38	6	151.67	6		6	
1/4	2,517.49	1/4	2,174.72	1/4	1,831.94	1/4	1,489.17	1/4	1,146.40	1/4	803.90	1/4	461.32	1/4	145.62	1/4		1/4	
1/2	2,510.35	1/2	2,167.58	1/2	1,824.80	1/2	1,482.03	1/2	1,139.26	1/2	796.77	1/2	454.27	1/2	139.56	1/2		1/2	
3/4	2,503.21	3/4	2,160.43	3/4	1,817.66	3/4	1,474.89	3/4	1,132.12	3/4	789.63	3/4	447.21	3/4	133.51	3/4		3/4	
7	2,496.07	7	2,153.29	7	1,810.52	7	1,467.75	7	1,124.97	7	782.49	7	440.15	7	127.45	7		7	
1/4	2,488.92	1/4	2,146.15	1/4	1,803.38	1/4	1,460.61	1/4	1,117.83	1/4	775.35	1/4	433.18	1/4	121.48	1/4		1/4	
1/2	2,481.78	1/2	2,139.01	1/2	1,796.24	1/2	1,453.47	1/2	1,110.69	1/2	768.21	1/2	426.20	1/2	115.51	1/2		1/2	
3/4	2,474.64	3/4	2,131.87	3/4	1,789.10	3/4	1,446.32	3/4	1,103.55	3/4	761.07	3/4	419.23	3/4	109.54	3/4		3/4	
8	2,467.50	8	2,124.73	8	1,781.96	8	1,439.18	8	1,096.41	8	753.93	8	412.26	8	103.57	8		8	
1/4	2,460.36	1/4	2,117.59	1/4	1,774.81	1/4	1,432.04	1/4	1,089.27	1/4	746.79	1/4	405.37	1/4	97.68	1/4		1/4	
1/2	2,453.22	1/2	2,110.45	1/2	1,767.67	1/2	1,424.90	1/2	1,082.13	1/2	739.65	1/2	398.48	1/2	91.80	1/2		1/2	
3/4	2,446.08	3/4	2,103.31	3/4	1,760.53	3/4	1,417.76	3/4	1,074.99	3/4	732.51	3/4	391.58	3/4	85.92	3/4		3/4	
9	2,438.94	9	2,096.16	9	1,753.39	9	1,410.62	9	1,067.85	9	725.37	9	384.69	9	80.04	9		9	
1/4	2,431.80	1/4	2,089.02	1/4	1,746.25	1/4	1,403.48	1/4	1,060.71	1/4	718.23	1/4	377.89	1/4	74.26	1/4		1/4	
1/2	2,424.66	1/2	2,081.88	1/2	1,739.11	1/2	1,396.34	1/2	1,053.56	1/2	711.09	1/2	371.08	1/2	68.47	1/2		1/2	
3/4	2,417.51	3/4	2,074.74	3/4	1,731.97	3/4	1,389.20	3/4	1,046.42	3/4	703.95	3/4	364.27	3/4	62.69	3/4		3/4	
10	2,410.37	10	2,067.60	10	1,724.83	10	1,382.05	10	1,039.28	10	696.81	10	357.47	10	56.91	10		10	
1/4	2,403.23	1/4	2,060.46	1/4	1,717.69	1/4	1,374.91	1/4	1,032.15	1/4	689.66	1/4	350.74	1/4	51.65	1/4		1/4	
1/2	2,396.09	1/2	2,053.32	1/2	1,710.55	1/2	1,367.77	1/2	1,025.01	1/2	682.52	1/2	344.02	1/2	46.40	1/2		1/2	
3/4	2,388.95	3/4	2,046.18	3/4	1,703.40	3/4	1,360.63	3/4	1,017.87	3/4	675.38	3/4	337.30	3/4	41.14	3/4		3/4	
11	2,381.81	11	2,039.04	11	1,696.26	11	1,353.49	11	1,010.74	11	668.24	11	330.57	11	35.89	11		11	
1/4	2,374.67	1/4	2,031.89	1/4	1,689.12	1/4	1,346.35	1/4	1,003.61	1/4	661.10	1/4	323.93	1/4	32.03	1/4		1/4	
1/2	2,367.53	1/2	2,024.75	1/2	1,681.98	1/2	1,339.21	1/2	996.47	1/2	653.96	1/2	317.29	1/2	28.18	1/2		1/2	
3/4	2,360.39	3/4	2,017.61	3/4	1,674.84	3/4	1,332.07	3/4	989.34	3/4	646.82	3/4	310.65	3/4	24.33	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/15/2020 CL
CALCULATED: 07/16/2020 CL
PRINTED: 07/16/2020 JS

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2020



BARGE "HSM 3310"

formerly the

BARGE "FMT 3310"

2 PORT ULLAGE TABLE

10" HATCH GAUGE HEIGHT 18'-02 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.		
0		0		0		0	5,098.36	0	4,818.72	0	4,476.50	0	4,133.45	0	3,789.66	0	3,445.87	0	3,102.08		
1/4		1/4		1/4		1/4	5,097.43	1/4	4,811.59	1/4	4,469.37	1/4	4,126.29	1/4	3,782.50	1/4	3,438.71	1/4	3,094.92		
1/2		1/2		1/2		1/2	5,095.42	1/2	4,804.46	1/2	4,462.24	1/2	4,119.13	1/2	3,775.34	1/2	3,431.55	1/2	3,087.76		
3/4		3/4		3/4		3/4	5,093.41	3/4	4,797.33	3/4	4,455.11	3/4	4,111.97	3/4	3,768.18	3/4	3,424.39	3/4	3,080.60		
1		1		1		1	5,091.40	1	4,790.20	1	4,447.98	1	4,104.80	1	3,761.01	1	3,417.22	1	3,073.43		
1/4		1/4		1/4		1/4	5,089.39	1/4	4,783.08	1/4	4,440.85	1/4	4,097.64	1/4	3,753.85	1/4	3,410.06	1/4	3,066.27		
1/2		1/2		1/2		1/2	5,086.18	1/2	4,775.95	1/2	4,433.72	1/2	4,090.48	1/2	3,746.69	1/2	3,402.90	1/2	3,059.11		
3/4		3/4		3/4		3/4	5,082.98	3/4	4,768.82	3/4	4,426.59	3/4	4,083.32	3/4	3,739.53	3/4	3,395.74	3/4	3,051.95		
2		2		2		2	5,079.78	2	4,761.69	2	4,419.46	2	4,076.16	2	3,732.37	2	3,388.57	2	3,044.80		
1/4		1/4		1/4		1/4	5,076.57	1/4	4,754.56	1/4	4,412.33	1/4	4,068.99	1/4	3,725.20	1/4	3,381.41	1/4	3,037.64		
1/2		1/2		1/2		1/2	5,072.17	1/2	4,747.43	1/2	4,405.20	1/2	4,061.83	1/2	3,718.04	1/2	3,374.25	1/2	3,030.47		
3/4		3/4		3/4		3/4	5,067.78	3/4	4,740.30	3/4	4,398.07	3/4	4,054.67	3/4	3,710.88	3/4	3,367.09	3/4	3,023.31		
3		3		3		3	5,063.38	3	4,733.17	3	4,390.94	3	4,047.51	3	3,703.72	3	3,359.93	3	3,016.14		
1/4		1/4		1/4		1/4	5,058.98	1/4	4,726.04	1/4	4,383.81	1/4	4,040.34	1/4	3,696.55	1/4	3,352.76	1/4	3,008.98		
1/2		1/2		1/2		1/2	5,053.39	1/2	4,718.91	1/2	4,376.68	1/2	4,033.18	1/2	3,689.39	1/2	3,345.60	1/2	3,001.82		
3/4		3/4		3/4		3/4	5,047.80	3/4	4,711.78	3/4	4,369.55	3/4	4,026.02	3/4	3,682.23	3/4	3,338.44	3/4	2,994.65		
4		4		4		4	5,042.20	4	4,704.65	4	4,362.42	4	4,018.86	4	3,675.07	4	3,331.28	4	2,987.49		
1/4		1/4		1/4		1/4	5,036.61	1/4	4,697.52	1/4	4,355.29	1/4	4,011.69	1/4	3,667.90	1/4	3,324.11	1/4	2,980.32		
1/2		1/2		1/2		1/2	5,030.01	1/2	4,690.39	1/2	4,348.16	1/2	4,004.53	1/2	3,660.74	1/2	3,316.95	1/2	2,973.16		
3/4		3/4		3/4		3/4	5,023.41	3/4	4,683.26	3/4	4,341.03	3/4	3,997.37	3/4	3,653.58	3/4	3,309.79	3/4	2,965.99		
5		5		5		5	5,016.80	5	4,676.13	5	4,333.90	5	3,990.21	5	3,646.42	5	3,302.63	5	2,958.83		
1/4		1/4		1/4		1/4	5,010.20	1/4	4,669.00	1/4	4,326.77	1/4	3,983.05	1/4	3,639.26	1/4	3,295.46	1/4	2,951.66		
1/2		1/2		1/2		1/2	5,003.16	1/2	4,661.87	1/2	4,319.63	1/2	3,975.88	1/2	3,632.09	1/2	3,288.30	1/2	2,944.50		
3/4		3/4		3/4		3/4	4,996.12	3/4	4,654.74	3/4	4,312.48	3/4	3,968.72	3/4	3,624.93	3/4	3,281.14	3/4	2,937.34		
6		6		6		6	4,989.07	6	4,647.61	6	4,305.33	6	3,961.56	6	3,617.77	6	3,273.98	6	2,930.17		
1/4		1/4		1/4		1/4	4,982.03	1/4	4,640.48	1/4	4,298.19	1/4	3,954.40	1/4	3,610.61	1/4	3,266.82	1/4	2,923.01		
1/2		1/2		1/2		1/2	4,974.95	1/2	4,633.35	1/2	4,291.02	1/2	3,947.23	1/2	3,603.44	1/2	3,259.65	1/2	2,915.84		
3/4		3/4		3/4		3/4	4,967.88	3/4	4,626.22	3/4	4,283.86	3/4	3,940.07	3/4	3,596.28	3/4	3,252.49	3/4	2,908.68		
7		7		7		7	4,960.80	7	4,619.09	7	4,276.70	7	3,932.91	7	3,589.12	7	3,245.33	7	2,901.51		
1/4		1/4		1/4		1/4	4,953.73	1/4	4,611.96	1/4	4,269.54	1/4	3,925.75	1/4	3,581.96	1/4	3,238.17	1/4	2,894.35		
1/2		1/2		1/2		1/2	4,946.64	1/2	4,604.83	1/2	4,262.38	1/2	3,918.58	1/2	3,574.79	1/2	3,231.00	1/2	2,887.19		
3/4		3/4		3/4		3/4	4,939.56	3/4	4,597.70	3/4	4,255.21	3/4	3,911.42	3/4	3,567.63	3/4	3,223.84	3/4	2,880.02		
8		8		8		8	4,932.48	8	4,590.57	8	4,248.05	8	3,904.26	8	3,560.47	8	3,216.68	8	2,872.86		
1/4		1/4		1/4		1/4	4,925.39	1/4	4,583.44	1/4	4,240.89	1/4	3,897.10	1/4	3,553.31	1/4	3,209.52	1/4	2,865.69		
1/2		1/2		1/2		1/2	4,918.31	1/2	4,576.31	1/2	4,233.73	1/2	3,889.94	1/2	3,546.15	1/2	3,202.35	1/2	2,858.53		
3/4		3/4		3/4		3/4	4,911.22	3/4	4,569.18	3/4	4,226.56	3/4	3,882.77	3/4	3,538.98	3/4	3,195.19	3/4	2,851.36		
9		9		9		9	4,904.14	9	4,562.05	9	4,219.40	9	3,875.61	9	3,531.82	9	3,188.03	9	2,844.20		
1/4		1/4		1/4		1/4	4,897.06	1/4	4,554.92	1/4	4,212.24	1/4	3,868.45	1/4	3,524.66	1/4	3,180.87	1/4	2,837.03		
1/2		1/2		1/2		1/2	4,889.95	1/2	4,547.80	1/2	4,205.08	1/2	3,861.29	1/2	3,517.50	1/2	3,173.71	1/2	2,829.87		
3/4		3/4		3/4		3/4	4,882.84	3/4	4,540.67	3/4	4,197.91	3/4	3,854.12	3/4	3,510.33	3/4	3,166.54	3/4	2,822.71		
10		10		10		10	4,875.74	10	4,533.54	10	4,190.75	10	3,846.96	10	3,503.17	10	3,159.38	10	2,815.54		
1/4		1/4		1/4		1/4	4,868.63	1/4	4,526.41	1/4	4,183.59	1/4	3,839.80	1/4	3,496.01	1/4	3,152.22	1/4	2,808.38		
1/2		1/2		1/2		1/2	4,861.50	1/2	4,519.28	1/2	4,176.43	1/2	3,832.64	1/2	3,488.85	1/2	3,145.06	1/2	2,801.21		
3/4		3/4		3/4		3/4	4,854.37	3/4	4,512.15	3/4	4,169.27	3/4	3,825.47	3/4	3,481.68	3/4	3,137.89	3/4	2,794.05		
11		11		11		11	4,847.24	11	4,505.02	11	4,162.10	11	3,818.31	11	3,474.52	11	3,130.73	11	2,786.88		
1/4		1/4		1/4		1/4	5,101.15	1/4	4,840.11	1/4	4,497.89	1/4	4,154.94	1/4	3,811.15	1/4	3,467.36	1/4	3,123.57	1/4	2,779.72
1/2		1/2		1/2		1/2	5,100.22	1/2	4,832.98	1/2	4,490.76	1/2	4,147.78	1/2	3,803.99	1/2	3,460.20	1/2	3,116.41	1/2	2,772.55
3/4		3/4		3/4		3/4	5,099.29	3/4	4,825.85	3/4	4,483.63	3/4	4,140.62	3/4	3,796.83	3/4	3,453.04	3/4	3,109.24	3/4	2,765.39

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 10" HATCH ON EXPANSION DOME.
 GAUGE POINT: (10" HATCH) LOCATED 3'-03" OFF CENTERLINE AND 3'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "HSM 3310"

formerly the
BARGE "FMT 3310"

2 PORT
ULLAGE TABLE
10" HATCH
GAUGE HEIGHT 18'-02 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,758.23	0	2,414.33	0	2,070.44	0	1,726.55	0	1,382.66	0	1,042.64	0	709.41	0	365.54	0	29.02	0	
1/4	2,751.06	1/4	2,407.17	1/4	2,063.28	1/4	1,719.39	1/4	1,375.50	1/4	1,035.79	1/4	702.25	1/4	358.37	1/4	23.65	1/4	
1/2	2,743.90	1/2	2,400.01	1/2	2,056.11	1/2	1,712.22	1/2	1,368.33	1/2	1,028.93	1/2	695.08	1/2	351.21	1/2	20.07	1/2	
3/4	2,736.73	3/4	2,392.84	3/4	2,048.95	3/4	1,705.06	3/4	1,361.17	3/4	1,022.07	3/4	687.92	3/4	344.04	3/4	16.49	3/4	
1	2,729.57	1	2,385.68	1	2,041.79	1	1,697.89	1	1,354.00	1	1,015.22	1	680.76	1	336.88	1	12.90	1	
1/4	2,722.40	1/4	2,378.51	1/4	2,034.62	1/4	1,690.73	1/4	1,346.84	1/4	1,008.36	1/4	673.59	1/4	329.72	1/4	9.32	1/4	
1/2	2,715.24	1/2	2,371.35	1/2	2,027.46	1/2	1,683.57	1/2	1,339.67	1/2	1,001.51	1/2	666.43	1/2	322.55	1/2	7.53	1/2	
3/4	2,708.08	3/4	2,364.18	3/4	2,020.29	3/4	1,676.40	3/4	1,332.51	3/4	994.65	3/4	659.26	3/4	315.39	3/4	5.74	3/4	
2	2,700.91	2	2,357.02	2	2,013.13	2	1,669.24	2	1,325.35	2	987.79	2	652.10	2	308.22	2	3.95	2	
1/4	2,693.75	1/4	2,349.86	1/4	2,005.96	1/4	1,662.07	1/4	1,318.18	1/4	980.94	1/4	644.94	1/4	301.06	1/4	2.16	1/4	
1/2	2,686.58	1/2	2,342.69	1/2	1,998.80	1/2	1,654.91	1/2	1,311.02	1/2	974.08	1/2	637.77	1/2	293.90	1/2		1/2	
3/4	2,679.42	3/4	2,335.53	3/4	1,991.64	3/4	1,647.74	3/4	1,303.85	3/4	967.22	3/4	630.61	3/4	286.73	3/4		3/4	
3	2,672.25	3	2,328.36	3	1,984.47	3	1,640.58	3	1,296.69	3	960.37	3	623.44	3	279.57	3		3	
1/4	2,665.09	1/4	2,321.20	1/4	1,977.31	1/4	1,633.42	1/4	1,289.52	1/4	953.51	1/4	616.28	1/4	272.40	1/4		1/4	
1/2	2,657.92	1/2	2,314.03	1/2	1,970.14	1/2	1,626.25	1/2	1,282.36	1/2	946.66	1/2	609.12	1/2	265.24	1/2		1/2	
3/4	2,650.76	3/4	2,306.87	3/4	1,962.98	3/4	1,619.09	3/4	1,275.20	3/4	939.80	3/4	601.95	3/4	258.07	3/4		3/4	
4	2,643.60	4	2,299.70	4	1,955.81	4	1,611.92	4	1,268.03	4	932.94	4	594.79	4	250.91	4		4	
1/4	2,636.43	1/4	2,292.54	1/4	1,948.65	1/4	1,604.76	1/4	1,260.87	1/4	926.09	1/4	587.62	1/4	243.75	1/4		1/4	
1/2	2,629.27	1/2	2,285.38	1/2	1,941.48	1/2	1,597.59	1/2	1,253.70	1/2	919.23	1/2	580.46	1/2	236.58	1/2		1/2	
3/4	2,622.10	3/4	2,278.21	3/4	1,934.32	3/4	1,590.43	3/4	1,246.54	3/4	912.38	3/4	573.29	3/4	229.42	3/4		3/4	
5	2,614.94	5	2,271.05	5	1,927.16	5	1,583.26	5	1,239.37	5	905.52	5	566.13	5	222.25	5		5	
1/4	2,607.77	1/4	2,263.88	1/4	1,919.99	1/4	1,576.10	1/4	1,232.21	1/4	898.66	1/4	558.97	1/4	215.09	1/4		1/4	
1/2	2,600.61	1/2	2,256.72	1/2	1,912.83	1/2	1,568.94	1/2	1,225.04	1/2	891.81	1/2	551.80	1/2	207.93	1/2		1/2	
3/4	2,593.44	3/4	2,249.55	3/4	1,905.66	3/4	1,561.77	3/4	1,217.88	3/4	884.95	3/4	544.64	3/4	200.76	3/4		3/4	
6	2,586.28	6	2,242.39	6	1,898.50	6	1,554.61	6	1,210.72	6	878.10	6	537.47	6	193.60	6		6	
1/4	2,579.12	1/4	2,235.22	1/4	1,891.33	1/4	1,547.44	1/4	1,203.55	1/4	871.24	1/4	530.31	1/4	186.43	1/4		1/4	
1/2	2,571.95	1/2	2,228.06	1/2	1,884.17	1/2	1,540.28	1/2	1,196.39	1/2	864.38	1/2	523.15	1/2	179.27	1/2		1/2	
3/4	2,564.79	3/4	2,220.90	3/4	1,877.00	3/4	1,533.11	3/4	1,189.22	3/4	857.52	3/4	515.98	3/4	172.11	3/4		3/4	
7	2,557.62	7	2,213.73	7	1,869.84	7	1,525.95	7	1,182.06	7	850.66	7	508.82	7	164.94	7		7	
1/4	2,550.46	1/4	2,206.57	1/4	1,862.68	1/4	1,518.78	1/4	1,174.89	1/4	843.80	1/4	501.65	1/4	157.78	1/4		1/4	
1/2	2,543.29	1/2	2,199.40	1/2	1,855.51	1/2	1,511.62	1/2	1,167.73	1/2	836.93	1/2	494.49	1/2	150.61	1/2		1/2	
3/4	2,536.13	3/4	2,192.24	3/4	1,848.35	3/4	1,504.46	3/4	1,160.56	3/4	830.05	3/4	487.33	3/4	143.45	3/4		3/4	
8	2,528.97	8	2,185.07	8	1,841.18	8	1,497.29	8	1,153.40	8	823.18	8	480.16	8	136.29	8		8	
1/4	2,521.80	1/4	2,177.91	1/4	1,834.02	1/4	1,490.13	1/4	1,146.24	1/4	816.31	1/4	473.00	1/4	129.12	1/4		1/4	
1/2	2,514.64	1/2	2,170.75	1/2	1,826.85	1/2	1,482.96	1/2	1,139.21	1/2	809.29	1/2	465.83	1/2	121.97	1/2		1/2	
3/4	2,507.47	3/4	2,163.58	3/4	1,819.69	3/4	1,475.80	3/4	1,132.19	3/4	802.26	3/4	458.67	3/4	114.81	3/4		3/4	
9	2,500.31	9	2,156.42	9	1,812.53	9	1,468.63	9	1,125.17	9	795.24	9	451.51	9	107.65	9		9	
1/4	2,493.14	1/4	2,149.25	1/4	1,805.36	1/4	1,461.47	1/4	1,118.14	1/4	788.22	1/4	444.34	1/4	100.49	1/4		1/4	
1/2	2,485.98	1/2	2,142.09	1/2	1,798.20	1/2	1,454.31	1/2	1,111.27	1/2	781.05	1/2	437.18	1/2	93.35	1/2		1/2	
3/4	2,478.81	3/4	2,134.92	3/4	1,791.03	3/4	1,447.14	3/4	1,104.40	3/4	773.89	3/4	430.01	3/4	86.21	3/4		3/4	
10	2,471.65	10	2,127.76	10	1,783.87	10	1,439.98	10	1,097.53	10	766.73	10	422.85	10	79.07	10		10	
1/4	2,464.49	1/4	2,120.59	1/4	1,776.70	1/4	1,432.81	1/4	1,090.65	1/4	759.56	1/4	415.68	1/4	71.93	1/4		1/4	
1/2	2,457.32	1/2	2,113.43	1/2	1,769.54	1/2	1,425.65	1/2	1,083.79	1/2	752.40	1/2	408.52	1/2	65.23	1/2		1/2	
3/4	2,450.16	3/4	2,106.27	3/4	1,762.37	3/4	1,418.48	3/4	1,076.93	3/4	745.23	3/4	401.36	3/4	58.53	3/4		3/4	
11	2,442.99	11	2,099.10	11	1,755.21	11	1,411.32	11	1,070.07	11	738.07	11	394.19	11	51.84	11		11	
1/4	2,435.83	1/4	2,091.94	1/4	1,748.05	1/4	1,404.15	1/4	1,063.21	1/4	730.91	1/4	387.03	1/4	45.14	1/4		1/4	
1/2	2,428.66	1/2	2,084.77	1/2	1,740.88	1/2	1,396.99	1/2	1,056.36	1/2	723.74	1/2	379.86	1/2	39.77	1/2		1/2	
3/4	2,421.50	3/4	2,077.61	3/4	1,733.72	3/4	1,389.83	3/4	1,049.50	3/4	716.58	3/4	372.70	3/4	34.39	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/15/2020 CL
CALCULATED: 07/16/2020 CL
PRINTED: 07/16/2020 JS

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2020



BARGE "HSM 3310"

formerly the
BARGE "FMT 3310"

2 STBD
ULLAGE TABLE

10" HATCH
GAUGE HEIGHT 18'-02 1/2"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.		
0		0		0		0	5,117.25	0	4,843.52	0	4,500.97	0	4,157.64	0	3,813.51	0	3,469.45	0	3,125.42		
1/4		1/4		1/4		1/4	5,116.31	1/4	4,836.39	1/4	4,493.84	1/4	4,150.47	1/4	3,806.34	1/4	3,462.29	1/4	3,118.26		
1/2		1/2		1/2		1/2	5,115.38	1/2	4,829.25	1/2	4,486.70	1/2	4,143.30	1/2	3,799.17	1/2	3,455.12	1/2	3,111.09		
3/4		3/4		3/4		3/4	5,113.37	3/4	4,822.11	3/4	4,479.56	3/4	4,136.13	3/4	3,792.00	3/4	3,447.95	3/4	3,103.92		
1		1		1		1	5,111.36	1	4,814.98	1	4,472.43	1	4,128.96	1	3,784.83	1	3,440.78	1	3,096.75		
1/4		1/4		1/4		1/4	5,109.34	1/4	4,807.84	1/4	4,465.29	1/4	4,121.79	1/4	3,777.66	1/4	3,433.62	1/4	3,089.59		
1/2		1/2		1/2		1/2	5,107.33	1/2	4,800.70	1/2	4,458.15	1/2	4,114.62	1/2	3,770.49	1/2	3,426.45	1/2	3,082.42		
3/4		3/4		3/4		3/4	5,104.12	3/4	4,793.57	3/4	4,451.02	3/4	4,107.45	3/4	3,763.33	3/4	3,419.28	3/4	3,075.25		
2		2		2		2	5,100.91	2	4,786.43	2	4,443.88	2	4,100.28	2	3,756.16	2	3,412.11	2	3,068.09		
1/4		1/4		1/4		1/4	5,097.70	1/4	4,779.30	1/4	4,436.74	1/4	4,093.11	1/4	3,748.99	1/4	3,404.95	1/4	3,060.92		
1/2		1/2		1/2		1/2	5,094.50	1/2	4,772.16	1/2	4,429.61	1/2	4,085.94	1/2	3,741.82	1/2	3,397.78	1/2	3,053.76		
3/4		3/4		3/4		3/4	5,090.09	3/4	4,765.02	3/4	4,422.47	3/4	4,078.77	3/4	3,734.65	3/4	3,390.61	3/4	3,046.59		
3		3		3		3	5,085.69	3	4,757.89	3	4,415.33	3	4,071.61	3	3,727.48	3	3,383.45	3	3,039.42		
1/4		1/4		1/4		1/4	5,081.29	1/4	4,750.75	1/4	4,408.20	1/4	4,064.44	1/4	3,720.31	1/4	3,376.28	1/4	3,032.25		
1/2		1/2		1/2		1/2	5,076.88	1/2	4,743.61	1/2	4,401.06	1/2	4,057.27	1/2	3,713.14	1/2	3,369.11	1/2	3,025.08		
3/4		3/4		3/4		3/4	5,071.29	3/4	4,736.48	3/4	4,393.92	3/4	4,050.10	3/4	3,705.97	3/4	3,361.94	3/4	3,017.91		
4		4		4		4	5,065.69	4	4,729.34	4	4,386.79	4	4,042.93	4	3,698.81	4	3,354.78	4	3,010.74		
1/4		1/4		1/4		1/4	5,060.09	1/4	4,722.20	1/4	4,379.65	1/4	4,035.76	1/4	3,691.64	1/4	3,347.61	1/4	3,003.57		
1/2		1/2		1/2		1/2	5,054.49	1/2	4,715.07	1/2	4,372.51	1/2	4,028.59	1/2	3,684.47	1/2	3,340.44	1/2	2,996.40		
3/4		3/4		3/4		3/4	5,047.88	3/4	4,707.93	3/4	4,365.38	3/4	4,021.42	3/4	3,677.30	3/4	3,333.27	3/4	2,989.24		
5		5		5		5	5,041.28	5	4,700.79	5	4,358.24	5	4,014.25	5	3,670.14	5	3,326.11	5	2,982.07		
1/4		1/4		1/4		1/4	5,034.67	1/4	4,693.66	1/4	4,351.11	1/4	4,007.08	1/4	3,662.97	1/4	3,318.94	1/4	2,974.90		
1/2		1/2		1/2		1/2	5,028.06	1/2	4,686.52	1/2	4,343.97	1/2	3,999.91	1/2	3,655.80	1/2	3,311.77	1/2	2,967.73		
3/4		3/4		3/4		3/4	5,021.01	3/4	4,679.38	3/4	4,336.82	3/4	3,992.74	3/4	3,648.64	3/4	3,304.61	3/4	2,960.56		
6		6		6		6	5,013.96	6	4,672.25	6	4,329.67	6	3,985.57	6	3,641.47	6	3,297.44	6	2,953.39		
1/4		1/4		1/4		1/4	5,006.91	1/4	4,665.11	1/4	4,322.51	1/4	3,978.40	1/4	3,634.30	1/4	3,290.27	1/4	2,946.22		
1/2		1/2		1/2		1/2	4,999.86	1/2	4,657.97	1/2	4,315.36	1/2	3,971.24	1/2	3,627.13	1/2	3,283.10	1/2	2,939.05		
3/4		3/4		3/4		3/4	4,992.78	3/4	4,650.84	3/4	4,308.19	3/4	3,964.07	3/4	3,619.97	3/4	3,275.94	3/4	2,931.88		
7		7		7		7	4,985.69	7	4,643.70	7	4,301.02	7	3,956.90	7	3,612.80	7	3,268.77	7	2,924.71		
1/4		1/4		1/4		1/4	4,978.61	1/4	4,636.57	1/4	4,293.85	1/4	3,949.73	1/4	3,605.63	1/4	3,261.60	1/4	2,917.54		
1/2		1/2		1/2		1/2	4,971.53	1/2	4,629.43	1/2	4,286.68	1/2	3,942.56	1/2	3,598.46	1/2	3,254.43	1/2	2,910.37		
3/4		3/4		3/4		3/4	4,964.44	3/4	4,622.29	3/4	4,279.52	3/4	3,935.39	3/4	3,591.30	3/4	3,247.27	3/4	2,903.20		
8		8		8		8	4,957.34	8	4,615.16	8	4,272.35	8	3,928.22	8	3,584.13	8	3,240.10	8	2,896.03		
1/4		1/4		1/4		1/4	4,950.25	1/4	4,608.02	1/4	4,265.18	1/4	3,921.05	1/4	3,576.96	1/4	3,232.93	1/4	2,888.87		
1/2		1/2		1/2		1/2	4,943.16	1/2	4,600.88	1/2	4,258.01	1/2	3,913.88	1/2	3,569.80	1/2	3,225.76	1/2	2,881.70		
3/4		3/4		3/4		3/4	4,936.07	3/4	4,593.75	3/4	4,250.84	3/4	3,906.71	3/4	3,562.63	3/4	3,218.60	3/4	2,874.53		
9		9		9		9	4,928.98	9	4,586.61	9	4,243.67	9	3,899.54	9	3,555.46	9	3,211.43	9	2,867.36		
1/4		1/4		1/4		1/4	4,921.89	1/4	4,579.47	1/4	4,236.50	1/4	3,892.37	1/4	3,548.29	1/4	3,204.26	1/4	2,860.19		
1/2		1/2		1/2		1/2	4,914.80	1/2	4,572.34	1/2	4,229.33	1/2	3,885.20	1/2	3,541.13	1/2	3,197.10	1/2	2,853.02		
3/4		3/4		3/4		3/4	4,907.68	3/4	4,565.20	3/4	4,222.16	3/4	3,878.03	3/4	3,533.96	3/4	3,189.93	3/4	2,845.85		
10		10		10		10	4,900.57	10	4,558.06	10	4,214.99	10	3,870.87	10	3,526.79	10	3,182.76	10	2,838.68		
1/4		1/4		1/4		1/4	4,893.46	1/4	4,550.93	1/4	4,207.82	1/4	3,863.70	1/4	3,519.62	1/4	3,175.59	1/4	2,831.51		
1/2		1/2		1/2		1/2	4,886.34	1/2	4,543.79	1/2	4,200.65	1/2	3,856.53	1/2	3,512.46	1/2	3,168.43	1/2	2,824.34		
3/4		3/4		3/4		3/4	4,879.21	3/4	4,536.65	3/4	4,193.48	3/4	3,849.36	3/4	3,505.29	3/4	3,161.26	3/4	2,817.17		
11		11		11		11	4,872.07	11	4,529.52	11	4,186.31	11	3,842.19	11	3,498.12	11	3,154.09	11	2,810.00		
1/4		1/4		1/4		1/4	4,864.93	1/4	4,522.38	1/4	4,179.14	1/4	3,835.02	1/4	3,490.95	1/4	3,146.92	1/4	2,802.83		
1/2		1/2		1/2		1/2	5,119.11	1/2	4,857.80	1/2	4,515.24	1/2	4,171.98	1/2	3,827.85	1/2	3,483.79	1/2	3,139.76	1/2	2,795.66
3/4		3/4		3/4		3/4	5,118.18	3/4	4,850.66	3/4	4,508.11	3/4	4,164.81	3/4	3,820.68	3/4	3,476.62	3/4	3,132.59	3/4	2,788.50

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 10" HATCH ON EXPANSION DOME.
 GAUGE POINT: (10" HATCH) LOCATED 3'-03" OFF CENTERLINE AND 3'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "HSM 3310"

formerly the
BARGE "FMT 3310"

2 STBD
ULLAGE TABLE
10" HATCH
GAUGE HEIGHT 18'-02 1/2"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,781.33	0	2,437.20	0	2,093.07	0	1,748.95	0	1,404.82	0	1,060.77	0	717.07	0	372.96	0	34.42	0	
1/4	2,774.16	1/4	2,430.03	1/4	2,085.90	1/4	1,741.78	1/4	1,397.65	1/4	1,053.62	1/4	709.90	1/4	365.79	1/4	29.05	1/4	
1/2	2,766.99	1/2	2,422.86	1/2	2,078.73	1/2	1,734.61	1/2	1,390.48	1/2	1,046.46	1/2	702.73	1/2	358.62	1/2	23.67	1/2	
3/4	2,759.82	3/4	2,415.69	3/4	2,071.57	3/4	1,727.44	3/4	1,383.31	3/4	1,039.31	3/4	695.57	3/4	351.45	3/4	20.09	3/4	
1	2,752.65	1	2,408.52	1	2,064.40	1	1,720.27	1	1,376.14	1	1,032.15	1	688.40	1	344.28	1	16.50	1	
1/4	2,745.48	1/4	2,401.35	1/4	2,057.23	1/4	1,713.10	1/4	1,368.97	1/4	1,025.00	1/4	681.23	1/4	337.12	1/4	12.92	1/4	
1/2	2,738.31	1/2	2,394.18	1/2	2,050.06	1/2	1,705.93	1/2	1,361.80	1/2	1,017.84	1/2	674.06	1/2	329.95	1/2	9.33	1/2	
3/4	2,731.14	3/4	2,387.01	3/4	2,042.89	3/4	1,698.76	3/4	1,354.64	3/4	1,010.69	3/4	666.89	3/4	322.78	3/4	7.54	3/4	
2	2,723.97	2	2,379.85	2	2,035.72	2	1,691.59	2	1,347.47	2	1,003.53	2	659.72	2	315.61	2	5.75	2	
1/4	2,716.80	1/4	2,372.68	1/4	2,028.55	1/4	1,684.42	1/4	1,340.30	1/4	996.38	1/4	652.55	1/4	308.44	1/4	3.96	1/4	
1/2	2,709.63	1/2	2,365.51	1/2	2,021.38	1/2	1,677.25	1/2	1,333.13	1/2	989.22	1/2	645.38	1/2	301.27	1/2	2.16	1/2	
3/4	2,702.46	3/4	2,358.34	3/4	2,014.21	3/4	1,670.08	3/4	1,325.96	3/4	982.07	3/4	638.21	3/4	294.10	3/4		3/4	
3	2,695.29	3	2,351.17	3	2,007.04	3	1,662.92	3	1,318.79	3	974.91	3	631.04	3	286.93	3		3	
1/4	2,688.12	1/4	2,344.00	1/4	1,999.87	1/4	1,655.75	1/4	1,311.62	1/4	967.76	1/4	623.88	1/4	279.76	1/4		1/4	
1/2	2,680.96	1/2	2,336.83	1/2	1,992.70	1/2	1,648.58	1/2	1,304.45	1/2	960.60	1/2	616.71	1/2	272.59	1/2		1/2	
3/4	2,673.79	3/4	2,329.66	3/4	1,985.53	3/4	1,641.41	3/4	1,297.28	3/4	953.45	3/4	609.54	3/4	265.43	3/4		3/4	
4	2,666.62	4	2,322.49	4	1,978.36	4	1,634.24	4	1,290.11	4	946.29	4	602.37	4	258.26	4		4	
1/4	2,659.45	1/4	2,315.32	1/4	1,971.19	1/4	1,627.07	1/4	1,282.94	1/4	939.14	1/4	595.20	1/4	251.09	1/4		1/4	
1/2	2,652.28	1/2	2,308.15	1/2	1,964.03	1/2	1,619.90	1/2	1,275.77	1/2	931.98	1/2	588.03	1/2	243.92	1/2		1/2	
3/4	2,645.11	3/4	2,300.98	3/4	1,956.86	3/4	1,612.73	3/4	1,268.60	3/4	924.83	3/4	580.86	3/4	236.75	3/4		3/4	
5	2,637.94	5	2,293.81	5	1,949.69	5	1,605.56	5	1,261.43	5	917.67	5	573.69	5	229.58	5		5	
1/4	2,630.77	1/4	2,286.64	1/4	1,942.52	1/4	1,598.39	1/4	1,254.26	1/4	910.52	1/4	566.52	1/4	222.41	1/4		1/4	
1/2	2,623.60	1/2	2,279.47	1/2	1,935.35	1/2	1,591.22	1/2	1,247.10	1/2	903.36	1/2	559.35	1/2	215.24	1/2		1/2	
3/4	2,616.43	3/4	2,272.31	3/4	1,928.18	3/4	1,584.05	3/4	1,239.93	3/4	896.21	3/4	552.19	3/4	208.07	3/4		3/4	
6	2,609.26	6	2,265.14	6	1,921.01	6	1,576.88	6	1,232.76	6	889.05	6	545.02	6	200.90	6		6	
1/4	2,602.09	1/4	2,257.97	1/4	1,913.84	1/4	1,569.71	1/4	1,225.59	1/4	881.90	1/4	537.85	1/4	193.74	1/4		1/4	
1/2	2,594.92	1/2	2,250.80	1/2	1,906.67	1/2	1,562.54	1/2	1,218.42	1/2	874.74	1/2	530.68	1/2	186.57	1/2		1/2	
3/4	2,587.75	3/4	2,243.63	3/4	1,899.50	3/4	1,555.38	3/4	1,211.25	3/4	867.58	3/4	523.51	3/4	179.40	3/4		3/4	
7	2,580.59	7	2,236.46	7	1,892.33	7	1,548.21	7	1,204.08	7	860.42	7	516.34	7	172.23	7		7	
1/4	2,573.42	1/4	2,229.29	1/4	1,885.16	1/4	1,541.04	1/4	1,196.91	1/4	853.26	1/4	509.17	1/4	165.06	1/4		1/4	
1/2	2,566.25	1/2	2,222.12	1/2	1,877.99	1/2	1,533.87	1/2	1,189.74	1/2	846.11	1/2	502.00	1/2	157.89	1/2		1/2	
3/4	2,559.08	3/4	2,214.95	3/4	1,870.82	3/4	1,526.70	3/4	1,182.57	3/4	838.94	3/4	494.83	3/4	150.72	3/4		3/4	
8	2,551.91	8	2,207.78	8	1,863.66	8	1,519.53	8	1,175.40	8	831.77	8	487.66	8	143.55	8		8	
1/4	2,544.74	1/4	2,200.61	1/4	1,856.49	1/4	1,512.36	1/4	1,168.23	1/4	824.61	1/4	480.50	1/4	136.39	1/4		1/4	
1/2	2,537.57	1/2	2,193.44	1/2	1,849.32	1/2	1,505.19	1/2	1,161.06	1/2	817.44	1/2	473.33	1/2	129.22	1/2		1/2	
3/4	2,530.40	3/4	2,186.27	3/4	1,842.15	3/4	1,498.02	3/4	1,153.89	3/4	810.27	3/4	466.16	3/4	122.05	3/4		3/4	
9	2,523.23	9	2,179.10	9	1,834.98	9	1,490.85	9	1,146.73	9	803.10	9	458.99	9	114.89	9		9	
1/4	2,516.06	1/4	2,171.94	1/4	1,827.81	1/4	1,483.68	1/4	1,139.56	1/4	795.93	1/4	451.82	1/4	107.73	1/4		1/4	
1/2	2,508.89	1/2	2,164.77	1/2	1,820.64	1/2	1,476.51	1/2	1,132.39	1/2	788.76	1/2	444.65	1/2	100.56	1/2		1/2	
3/4	2,501.72	3/4	2,157.60	3/4	1,813.47	3/4	1,469.34	3/4	1,125.22	3/4	781.59	3/4	437.48	3/4	93.42	3/4		3/4	
10	2,494.55	10	2,150.43	10	1,806.30	10	1,462.17	10	1,118.05	10	774.42	10	430.31	10	86.27	10		10	
1/4	2,487.38	1/4	2,143.26	1/4	1,799.13	1/4	1,455.01	1/4	1,110.89	1/4	767.26	1/4	423.14	1/4	79.13	1/4		1/4	
1/2	2,480.22	1/2	2,136.09	1/2	1,791.96	1/2	1,447.84	1/2	1,103.72	1/2	760.09	1/2	415.97	1/2	71.98	1/2		1/2	
3/4	2,473.05	3/4	2,128.92	3/4	1,784.79	3/4	1,440.67	3/4	1,096.56	3/4	752.92	3/4	408.81	3/4	65.28	3/4		3/4	
11	2,465.88	11	2,121.75	11	1,777.62	11	1,433.50	11	1,089.40	11	745.75	11	401.64	11	58.58	11		11	
1/4	2,458.71	1/4	2,114.58	1/4	1,770.45	1/4	1,426.33	1/4	1,082.24	1/4	738.58	1/4	394.47	1/4	51.88	1/4		1/4	
1/2	2,451.54	1/2	2,107.41	1/2	1,763.29	1/2	1,419.16	1/2	1,075.08	1/2	731.41	1/2	387.30	1/2	45.17	1/2		1/2	
3/4	2,444.37	3/4	2,100.24	3/4	1,756.12	3/4	1,411.99	3/4	1,067.93	3/4	724.24	3/4	380.13	3/4	39.80	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/15/2020 CL
CALCULATED: 07/16/2020 CL
PRINTED: 07/16/2020 JS

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



CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2020



BARGE "HSM 3310"
formerly the
BARGE "FMT 3310"

3 PORT
ULLAGE TABLE

10" HATCH
GAUGE HEIGHT 18'-02 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.		
0		0		0		0	4,398.57	0	4,232.36	0	4,023.43	0	3,814.02	0	3,604.17	0	3,394.84	0	3,084.32		
1/4		1/4		1/4		1/4	4,397.49	1/4	4,228.01	1/4	4,019.08	1/4	3,809.65	1/4	3,599.79	1/4	3,390.48	1/4	3,077.20		
1/2		1/2		1/2		1/2	4,395.78	1/2	4,223.66	1/2	4,014.72	1/2	3,805.27	1/2	3,595.42	1/2	3,386.13	1/2	3,070.09		
3/4		3/4		3/4		3/4	4,394.08	3/4	4,219.31	3/4	4,010.37	3/4	3,800.90	3/4	3,591.05	3/4	3,381.79	3/4	3,062.97		
1		1		1		1	4,392.37	1	4,214.95	1	4,006.02	1	3,796.53	1	3,586.68	1	3,377.44	1	3,055.86		
1/4		1/4		1/4		1/4	4,390.66	1/4	4,210.60	1/4	4,001.67	1/4	3,792.16	1/4	3,582.31	1/4	3,373.09	1/4	3,048.74		
1/2		1/2		1/2		1/2	4,388.95	1/2	4,206.25	1/2	3,997.31	1/2	3,787.79	1/2	3,577.94	1/2	3,368.75	1/2	3,041.62		
3/4		3/4		3/4		3/4	4,387.24	3/4	4,201.89	3/4	3,992.96	3/4	3,783.41	3/4	3,573.56	3/4	3,364.42	3/4	3,034.49		
2		2		2		2	4,385.54	2	4,197.54	2	3,988.61	2	3,779.04	2	3,569.19	2	3,360.08	2	3,027.37		
1/4		1/4		1/4		1/4	4,383.83	1/4	4,193.19	1/4	3,984.25	1/4	3,774.67	1/4	3,564.82	1/4	3,355.74	1/4	3,020.25		
1/2		1/2		1/2		1/2	4,381.85	1/2	4,188.84	1/2	3,979.90	1/2	3,770.30	1/2	3,560.45	1/2	3,350.02	1/2	3,013.12		
3/4		3/4		3/4		3/4	4,379.88	3/4	4,184.48	3/4	3,975.55	3/4	3,765.93	3/4	3,556.08	3/4	3,344.30	3/4	3,005.98		
3		3		3		3	4,377.90	3	4,180.13	3	3,971.20	3	3,761.56	3	3,551.70	3	3,338.58	3	2,998.85		
1/4		1/4		1/4		1/4	4,375.92	1/4	4,175.78	1/4	3,966.84	1/4	3,757.18	1/4	3,547.33	1/4	3,332.86	1/4	2,991.72		
1/2		1/2		1/2		1/2	4,373.08	1/2	4,171.42	1/2	3,962.49	1/2	3,752.81	1/2	3,542.97	1/2	3,325.76	1/2	2,984.59		
3/4		3/4		3/4		3/4	4,370.25	3/4	4,167.07	3/4	3,958.14	3/4	3,748.44	3/4	3,538.60	3/4	3,318.66	3/4	2,977.46		
4		4		4		4	4,367.41	4	4,162.72	4	3,953.78	4	3,744.07	4	3,534.24	4	3,311.56	4	2,970.33		
1/4		1/4		1/4		1/4	4,364.57	1/4	4,158.37	1/4	3,949.43	1/4	3,739.70	1/4	3,529.87	1/4	3,304.46	1/4	2,963.20		
1/2		1/2		1/2		1/2	4,360.72	1/2	4,154.01	1/2	3,945.08	1/2	3,735.32	1/2	3,525.52	1/2	3,297.36	1/2	2,956.06		
3/4		3/4		3/4		3/4	4,356.88	3/4	4,149.66	3/4	3,940.73	3/4	3,730.95	3/4	3,521.16	3/4	3,290.27	3/4	2,948.93		
5		5		5		5	4,353.03	5	4,145.31	5	3,936.37	5	3,726.58	5	3,516.81	5	3,283.17	5	2,941.80		
1/4		1/4		1/4		1/4	4,349.19	1/4	4,140.96	1/4	3,932.02	1/4	3,722.21	1/4	3,512.45	1/4	3,276.07	1/4	2,934.67		
1/2		1/2		1/2		1/2	4,344.90	1/2	4,136.60	1/2	3,927.66	1/2	3,717.84	1/2	3,508.09	1/2	3,268.97	1/2	2,927.54		
3/4		3/4		3/4		3/4	4,340.62	3/4	4,132.25	3/4	3,923.30	3/4	3,713.46	3/4	3,503.74	3/4	3,261.87	3/4	2,920.42		
6		6		6		6	4,336.34	6	4,127.90	6	3,918.93	6	3,709.09	6	3,499.38	6	3,254.77	6	2,913.29		
1/4		1/4		1/4		1/4	4,332.05	1/4	4,123.54	1/4	3,914.57	1/4	3,704.72	1/4	3,495.03	1/4	3,247.67	1/4	2,906.17		
1/2		1/2		1/2		1/2	4,327.74	1/2	4,119.19	1/2	3,910.20	1/2	3,700.35	1/2	3,490.67	1/2	3,240.57	1/2	2,899.05		
3/4		3/4		3/4		3/4	4,323.42	3/4	4,114.84	3/4	3,905.83	3/4	3,695.98	3/4	3,486.31	3/4	3,233.47	3/4	2,891.93		
7		7		7		7	4,319.10	7	4,110.49	7	3,901.46	7	3,691.60	7	3,481.96	7	3,226.37	7	2,884.81		
1/4		1/4		1/4		1/4	4,314.79	1/4	4,106.13	1/4	3,897.08	1/4	3,687.23	1/4	3,477.60	1/4	3,219.28	1/4	2,877.69		
1/2		1/2		1/2		1/2	4,310.46	1/2	4,101.78	1/2	3,892.71	1/2	3,682.86	1/2	3,473.25	1/2	3,212.18	1/2	2,870.57		
3/4		3/4		3/4		3/4	4,306.14	3/4	4,097.43	3/4	3,888.34	3/4	3,678.49	3/4	3,468.89	3/4	3,205.08	3/4	2,863.45		
8		8		8		8	4,301.82	8	4,093.07	8	3,883.97	8	3,674.12	8	3,464.53	8	3,197.98	8	2,856.33		
1/4		1/4		1/4		1/4	4,297.49	1/4	4,088.72	1/4	3,879.60	1/4	3,669.75	1/4	3,460.18	1/4	3,190.88	1/4	2,849.21		
1/2		1/2		1/2		1/2	4,293.17	1/2	4,084.37	1/2	3,875.22	1/2	3,665.37	1/2	3,455.82	1/2	3,183.78	1/2	2,842.09		
3/4		3/4		3/4		3/4	4,288.84	3/4	4,080.02	3/4	3,870.85	3/4	3,661.00	3/4	3,451.47	3/4	3,176.69	3/4	2,834.97		
9		9		9		9	4,284.52	9	4,075.66	9	3,866.48	9	3,656.63	9	3,447.11	9	3,169.59	9	2,827.85		
1/4		1/4		1/4		1/4	4,280.19	1/4	4,071.31	1/4	3,862.11	1/4	3,652.26	1/4	3,442.75	1/4	3,162.49	1/4	2,820.73		
1/2		1/2		1/2		1/2	4,275.85	1/2	4,066.96	1/2	3,857.74	1/2	3,647.89	1/2	3,438.40	1/2	3,155.39	1/2	2,813.61		
3/4		3/4		3/4		3/4	4,271.51	3/4	4,062.60	3/4	3,853.37	3/4	3,643.51	3/4	3,434.04	3/4	3,148.29	3/4	2,806.49		
10		10		10		10	4,267.17	10	4,058.25	10	3,848.99	10	3,639.14	10	3,429.68	10	3,141.19	10	2,799.37		
1/4		1/4		1/4		1/4	4,262.83	1/4	4,053.90	1/4	3,844.62	1/4	3,634.77	1/4	3,425.33	1/4	3,134.10	1/4	2,792.25		
1/2		1/2		1/2		1/2	4,258.48	1/2	4,049.55	1/2	3,840.25	1/2	3,630.40	1/2	3,420.97	1/2	3,126.99	1/2	2,785.13		
3/4		3/4		3/4		3/4	4,254.13	3/4	4,045.19	3/4	3,835.88	3/4	3,626.03	3/4	3,416.62	3/4	3,119.88	3/4	2,778.01		
11		11		11		11	4,249.78	11	4,040.84	11	3,831.51	11	3,621.65	11	3,412.26	11	3,112.77	11	2,770.89		
1/4		1/4		1/4		1/4	4,401.80	1/4	4,245.42	1/4	4,036.49	1/4	3,827.13	1/4	3,617.28	1/4	3,407.90	1/4	3,105.67	1/4	2,763.77
1/2		1/2		1/2		1/2	4,400.72	1/2	4,241.07	1/2	4,032.14	1/2	3,822.76	1/2	3,612.91	1/2	3,403.55	1/2	3,098.55	1/2	2,756.65
3/4		3/4		3/4		3/4	4,399.65	3/4	4,236.72	3/4	4,027.78	3/4	3,818.39	3/4	3,608.54	3/4	3,399.19	3/4	3,091.44	3/4	2,749.53

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 10" HATCH ON EXPANSION DOME.
GAUGE POINT: (10" HATCH) LOCATED 3'-03" OFF CENTERLINE AND 82'-08" 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 "HSM 3310"

formerly the

BARGE "FMT 3310"

3 PORT
ULLAGE TABLE
10" HATCH
GAUGE HEIGHT 18'-02 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,742.41	0	2,400.66	0	2,058.86	0	1,717.07	0	1,375.28	0	1,037.16	0	705.84	0	363.97	0	28.90	0	
1/4	2,735.29	1/4	2,393.54	1/4	2,051.74	1/4	1,709.95	1/4	1,368.16	1/4	1,030.35	1/4	698.72	1/4	356.84	1/4	23.55	1/4	
1/2	2,728.17	1/2	2,386.42	1/2	2,044.62	1/2	1,702.83	1/2	1,361.03	1/2	1,023.54	1/2	691.60	1/2	349.71	1/2	19.98	1/2	
3/4	2,721.05	3/4	2,379.29	3/4	2,037.50	3/4	1,695.71	3/4	1,353.91	3/4	1,016.73	3/4	684.48	3/4	342.58	3/4	16.41	3/4	
1	2,713.93	1	2,372.17	1	2,030.38	1	1,688.59	1	1,346.79	1	1,009.92	1	677.36	1	335.44	1	12.85	1	
1/4	2,706.81	1/4	2,365.05	1/4	2,023.26	1/4	1,681.47	1/4	1,339.67	1/4	1,003.11	1/4	670.23	1/4	328.31	1/4	9.28	1/4	
1/2	2,699.69	1/2	2,357.93	1/2	2,016.14	1/2	1,674.35	1/2	1,332.55	1/2	996.30	1/2	663.11	1/2	321.18	1/2	7.50	1/2	
3/4	2,692.57	3/4	2,350.81	3/4	2,009.02	3/4	1,667.22	3/4	1,325.43	3/4	989.48	3/4	655.99	3/4	314.04	3/4	5.71	3/4	
2	2,685.45	2	2,343.69	2	2,001.90	2	1,660.10	2	1,318.31	2	982.67	2	648.87	2	306.91	2	3.93	2	
1/4	2,678.33	1/4	2,336.57	1/4	1,994.78	1/4	1,652.98	1/4	1,311.19	1/4	975.86	1/4	641.75	1/4	299.77	1/4	2.15	1/4	
1/2	2,671.21	1/2	2,329.45	1/2	1,987.66	1/2	1,645.86	1/2	1,304.07	1/2	969.05	1/2	634.62	1/2	292.64	1/2		1/2	
3/4	2,664.09	3/4	2,322.33	3/4	1,980.54	3/4	1,638.74	3/4	1,296.95	3/4	962.24	3/4	627.50	3/4	285.51	3/4		3/4	
3	2,656.97	3	2,315.21	3	1,973.41	3	1,631.62	3	1,289.83	3	955.43	3	620.38	3	278.37	3		3	
1/4	2,649.85	1/4	2,308.09	1/4	1,966.29	1/4	1,624.50	1/4	1,282.71	1/4	948.62	1/4	613.26	1/4	271.24	1/4		1/4	
1/2	2,642.73	1/2	2,300.97	1/2	1,959.17	1/2	1,617.38	1/2	1,275.59	1/2	941.81	1/2	606.14	1/2	264.11	1/2		1/2	
3/4	2,635.61	3/4	2,293.85	3/4	1,952.05	3/4	1,610.26	3/4	1,268.47	3/4	935.00	3/4	599.01	3/4	256.97	3/4		3/4	
4	2,628.49	4	2,286.73	4	1,944.93	4	1,603.14	4	1,261.34	4	928.18	4	591.89	4	249.84	4		4	
1/4	2,621.37	1/4	2,279.60	1/4	1,937.81	1/4	1,596.02	1/4	1,254.22	1/4	921.37	1/4	584.77	1/4	242.71	1/4		1/4	
1/2	2,614.25	1/2	2,272.48	1/2	1,930.69	1/2	1,588.90	1/2	1,247.10	1/2	914.56	1/2	577.65	1/2	235.57	1/2		1/2	
3/4	2,607.13	3/4	2,265.36	3/4	1,923.57	3/4	1,581.78	3/4	1,239.98	3/4	907.75	3/4	570.53	3/4	228.44	3/4		3/4	
5	2,600.02	5	2,258.24	5	1,916.45	5	1,574.66	5	1,232.86	5	900.94	5	563.40	5	221.30	5		5	
1/4	2,592.90	1/4	2,251.12	1/4	1,909.33	1/4	1,567.53	1/4	1,225.74	1/4	894.13	1/4	556.28	1/4	214.17	1/4		1/4	
1/2	2,585.78	1/2	2,244.00	1/2	1,902.21	1/2	1,560.41	1/2	1,218.62	1/2	887.32	1/2	549.16	1/2	207.04	1/2		1/2	
3/4	2,578.66	3/4	2,236.88	3/4	1,895.09	3/4	1,553.29	3/4	1,211.50	3/4	880.51	3/4	542.04	3/4	199.90	3/4		3/4	
6	2,571.54	6	2,229.76	6	1,887.97	6	1,546.17	6	1,204.38	6	873.70	6	534.92	6	192.77	6		6	
1/4	2,564.42	1/4	2,222.64	1/4	1,880.85	1/4	1,539.05	1/4	1,197.26	1/4	866.89	1/4	527.79	1/4	185.64	1/4		1/4	
1/2	2,557.30	1/2	2,215.52	1/2	1,873.72	1/2	1,531.93	1/2	1,190.14	1/2	860.07	1/2	520.67	1/2	178.50	1/2		1/2	
3/4	2,550.18	3/4	2,208.40	3/4	1,866.60	3/4	1,524.81	3/4	1,183.02	3/4	853.26	3/4	513.55	3/4	171.37	3/4		3/4	
7	2,543.06	7	2,201.28	7	1,859.48	7	1,517.69	7	1,175.90	7	846.44	7	506.43	7	164.24	7		7	
1/4	2,535.94	1/4	2,194.16	1/4	1,852.36	1/4	1,510.57	1/4	1,168.78	1/4	839.63	1/4	499.31	1/4	157.10	1/4		1/4	
1/2	2,528.82	1/2	2,187.04	1/2	1,845.24	1/2	1,503.45	1/2	1,161.65	1/2	832.77	1/2	492.18	1/2	149.97	1/2		1/2	
3/4	2,521.70	3/4	2,179.92	3/4	1,838.12	3/4	1,496.33	3/4	1,154.53	3/4	825.92	3/4	485.06	3/4	142.84	3/4		3/4	
8	2,514.58	8	2,172.79	8	1,831.00	8	1,489.21	8	1,147.41	8	819.06	8	477.94	8	135.70	8		8	
1/4	2,507.46	1/4	2,165.67	1/4	1,823.88	1/4	1,482.09	1/4	1,140.29	1/4	812.21	1/4	470.82	1/4	128.57	1/4		1/4	
1/2	2,500.34	1/2	2,158.55	1/2	1,816.76	1/2	1,474.97	1/2	1,133.29	1/2	805.20	1/2	463.70	1/2	121.44	1/2		1/2	
3/4	2,493.22	3/4	2,151.43	3/4	1,809.64	3/4	1,467.85	3/4	1,126.28	3/4	798.20	3/4	456.57	3/4	114.32	3/4		3/4	
9	2,486.10	9	2,144.31	9	1,802.52	9	1,460.72	9	1,119.28	9	791.19	9	449.45	9	107.19	9		9	
1/4	2,478.98	1/4	2,137.19	1/4	1,795.40	1/4	1,453.60	1/4	1,112.27	1/4	784.19	1/4	442.33	1/4	100.06	1/4		1/4	
1/2	2,471.86	1/2	2,130.07	1/2	1,788.28	1/2	1,446.48	1/2	1,105.42	1/2	777.06	1/2	435.21	1/2	92.95	1/2		1/2	
3/4	2,464.74	3/4	2,122.95	3/4	1,781.16	3/4	1,439.36	3/4	1,098.56	3/4	769.94	3/4	428.09	3/4	85.84	3/4		3/4	
10	2,457.62	10	2,115.83	10	1,774.04	10	1,432.24	10	1,091.71	10	762.82	10	420.96	10	78.73	10		10	
1/4	2,450.50	1/4	2,108.71	1/4	1,766.91	1/4	1,425.12	1/4	1,084.86	1/4	755.70	1/4	413.84	1/4	71.62	1/4		1/4	
1/2	2,443.38	1/2	2,101.59	1/2	1,759.79	1/2	1,418.00	1/2	1,078.04	1/2	748.58	1/2	406.72	1/2	64.95	1/2		1/2	
3/4	2,436.26	3/4	2,094.47	3/4	1,752.67	3/4	1,410.88	3/4	1,071.23	3/4	741.45	3/4	399.60	3/4	58.28	3/4		3/4	
11	2,429.14	11	2,087.35	11	1,745.55	11	1,403.76	11	1,064.41	11	734.33	11	392.48	11	51.61	11		11	
1/4	2,422.02	1/4	2,080.23	1/4	1,738.43	1/4	1,396.64	1/4	1,057.60	1/4	727.21	1/4	385.35	1/4	44.94	1/4		1/4	
1/2	2,414.90	1/2	2,073.10	1/2	1,731.31	1/2	1,389.52	1/2	1,050.78	1/2	720.09	1/2	378.23	1/2	39.59	1/2		1/2	
3/4	2,407.78	3/4	2,065.98	3/4	1,724.19	3/4	1,382.40	3/4	1,043.97	3/4	712.97	3/4	371.10	3/4	34.24	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/15/2020 CL
CALCULATED: 07/16/2020 CL
PRINTED: 07/16/2020 JS

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

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2020





BARGE "HSM 3310"

formerly the
BARGE "FMT 3310"

3 STBD
ULLAGE TABLE

10" HATCH
GAUGE HEIGHT 18'-02 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	4,406.08	0	4,246.78	0	4,038.32	0	3,829.42	0	3,620.05	0	3,410.68	0	3,106.51
1/4		1/4		1/4		1/4	4,405.00	1/4	4,242.44	1/4	4,033.98	1/4	3,825.06	1/4	3,615.69	1/4	3,406.32	1/4	3,099.42
1/2		1/2		1/2		1/2	4,403.93	1/2	4,238.09	1/2	4,029.63	1/2	3,820.70	1/2	3,611.33	1/2	3,401.95	1/2	3,092.32
3/4		3/4		3/4		3/4	4,402.85	3/4	4,233.75	3/4	4,025.29	3/4	3,816.33	3/4	3,606.96	3/4	3,397.59	3/4	3,085.23
1		1		1		1	4,401.15	1	4,229.41	1	4,020.95	1	3,811.97	1	3,602.60	1	3,393.25	1	3,078.14
1/4		1/4		1/4		1/4	4,399.45	1/4	4,225.06	1/4	4,016.60	1/4	3,807.61	1/4	3,598.24	1/4	3,388.90	1/4	3,071.04
1/2		1/2		1/2		1/2	4,397.74	1/2	4,220.72	1/2	4,012.26	1/2	3,803.25	1/2	3,593.88	1/2	3,384.56	1/2	3,063.95
3/4		3/4		3/4		3/4	4,396.04	3/4	4,216.38	3/4	4,007.92	3/4	3,798.89	3/4	3,589.52	3/4	3,380.22	3/4	3,056.85
2		2		2		2	4,394.33	2	4,212.04	2	4,003.58	2	3,794.53	2	3,585.15	2	3,375.89	2	3,049.76
1/4		1/4		1/4		1/4	4,392.63	1/4	4,207.69	1/4	3,999.23	1/4	3,790.16	1/4	3,580.79	1/4	3,371.56	1/4	3,042.66
1/2		1/2		1/2		1/2	4,390.93	1/2	4,203.35	1/2	3,994.89	1/2	3,785.80	1/2	3,576.43	1/2	3,367.24	1/2	3,035.57
3/4		3/4		3/4		3/4	4,389.22	3/4	4,199.01	3/4	3,990.55	3/4	3,781.44	3/4	3,572.07	3/4	3,362.91	3/4	3,028.48
3		3		3		3	4,387.25	3	4,194.66	3	3,986.20	3	3,777.08	3	3,567.71	3	3,357.21	3	3,021.38
1/4		1/4		1/4		1/4	4,385.28	1/4	4,190.32	1/4	3,981.86	1/4	3,772.72	1/4	3,563.34	1/4	3,351.51	1/4	3,014.29
1/2		1/2		1/2		1/2	4,383.30	1/2	4,185.98	1/2	3,977.52	1/2	3,768.35	1/2	3,558.98	1/2	3,345.81	1/2	3,007.19
3/4		3/4		3/4		3/4	4,381.33	3/4	4,181.63	3/4	3,973.18	3/4	3,763.99	3/4	3,554.62	3/4	3,340.10	3/4	3,000.10
4		4		4		4	4,378.50	4	4,177.29	4	3,968.83	4	3,759.63	4	3,550.26	4	3,333.03	4	2,993.00
1/4		1/4		1/4		1/4	4,375.66	1/4	4,172.95	1/4	3,964.49	1/4	3,755.27	1/4	3,545.90	1/4	3,325.95	1/4	2,985.91
1/2		1/2		1/2		1/2	4,372.83	1/2	4,168.61	1/2	3,960.15	1/2	3,750.91	1/2	3,541.54	1/2	3,318.87	1/2	2,978.82
3/4		3/4		3/4		3/4	4,370.00	3/4	4,164.26	3/4	3,955.80	3/4	3,746.54	3/4	3,537.17	3/4	3,311.80	3/4	2,971.72
5		5		5		5	4,366.16	5	4,159.92	5	3,951.46	5	3,742.18	5	3,532.81	5	3,304.72	5	2,964.63
1/4		1/4		1/4		1/4	4,362.32	1/4	4,155.58	1/4	3,947.12	1/4	3,737.82	1/4	3,528.45	1/4	3,297.64	1/4	2,957.53
1/2		1/2		1/2		1/2	4,358.49	1/2	4,151.23	1/2	3,942.78	1/2	3,733.46	1/2	3,524.09	1/2	3,290.57	1/2	2,950.44
3/4		3/4		3/4		3/4	4,354.65	3/4	4,146.89	3/4	3,938.43	3/4	3,729.10	3/4	3,519.73	3/4	3,283.49	3/4	2,943.35
6		6		6		6	4,350.38	6	4,142.55	6	3,934.08	6	3,724.73	6	3,515.36	6	3,276.41	6	2,936.25
1/4		1/4		1/4		1/4	4,346.10	1/4	4,138.21	1/4	3,929.73	1/4	3,720.37	1/4	3,511.00	1/4	3,269.33	1/4	2,929.16
1/2		1/2		1/2		1/2	4,341.83	1/2	4,133.86	1/2	3,925.37	1/2	3,716.01	1/2	3,506.64	1/2	3,262.26	1/2	2,922.06
3/4		3/4		3/4		3/4	4,337.55	3/4	4,129.52	3/4	3,921.02	3/4	3,711.65	3/4	3,502.28	3/4	3,255.18	3/4	2,914.97
7		7		7		7	4,333.25	7	4,125.18	7	3,916.66	7	3,707.29	7	3,497.92	7	3,248.10	7	2,907.87
1/4		1/4		1/4		1/4	4,328.94	1/4	4,120.83	1/4	3,912.30	1/4	3,702.93	1/4	3,493.55	1/4	3,241.03	1/4	2,900.78
1/2		1/2		1/2		1/2	4,324.63	1/2	4,116.49	1/2	3,907.93	1/2	3,698.56	1/2	3,489.19	1/2	3,233.95	1/2	2,893.69
3/4		3/4		3/4		3/4	4,320.33	3/4	4,112.15	3/4	3,903.57	3/4	3,694.20	3/4	3,484.83	3/4	3,226.87	3/4	2,886.59
8		8		8		8	4,316.01	8	4,107.81	8	3,899.21	8	3,689.84	8	3,480.47	8	3,219.80	8	2,879.50
1/4		1/4		1/4		1/4	4,311.70	1/4	4,103.46	1/4	3,894.85	1/4	3,685.48	1/4	3,476.11	1/4	3,212.72	1/4	2,872.40
1/2		1/2		1/2		1/2	4,307.39	1/2	4,099.12	1/2	3,890.49	1/2	3,681.12	1/2	3,471.74	1/2	3,205.64	1/2	2,865.31
3/4		3/4		3/4		3/4	4,303.07	3/4	4,094.78	3/4	3,886.13	3/4	3,676.75	3/4	3,467.38	3/4	3,198.56	3/4	2,858.21
9		9		9		9	4,298.76	9	4,090.43	9	3,881.76	9	3,672.39	9	3,463.02	9	3,191.49	9	2,851.12
1/4		1/4		1/4		1/4	4,294.44	1/4	4,086.09	1/4	3,877.40	1/4	3,668.03	1/4	3,458.66	1/4	3,184.41	1/4	2,844.03
1/2		1/2		1/2		1/2	4,290.13	1/2	4,081.75	1/2	3,873.04	1/2	3,663.67	1/2	3,454.30	1/2	3,177.33	1/2	2,836.93
3/4		3/4		3/4		3/4	4,285.81	3/4	4,077.41	3/4	3,868.68	3/4	3,659.31	3/4	3,449.94	3/4	3,170.26	3/4	2,829.84
10		10		10		10	4,281.48	10	4,073.06	10	3,864.32	10	3,654.94	10	3,445.57	10	3,163.18	10	2,822.74
1/4		1/4		1/4		1/4	4,277.15	1/4	4,068.72	1/4	3,859.95	1/4	3,650.58	1/4	3,441.21	1/4	3,156.10	1/4	2,815.65
1/2		1/2		1/2		1/2	4,272.82	1/2	4,064.38	1/2	3,855.59	1/2	3,646.22	1/2	3,436.85	1/2	3,149.03	1/2	2,808.56
3/4		3/4		3/4		3/4	4,268.49	3/4	4,060.03	3/4	3,851.23	3/4	3,641.86	3/4	3,432.49	3/4	3,141.95	3/4	2,801.46
11		11		11		11	4,264.15	11	4,055.69	11	3,846.87	11	3,637.50	11	3,428.13	11	3,134.86	11	2,794.37
1/4		1/4		1/4		1/4	4,259.81	1/4	4,051.35	1/4	3,842.51	1/4	3,633.14	1/4	3,423.76	1/4	3,127.78	1/4	2,787.27
1/2		1/2		1/2		1/2	4,255.46	1/2	4,047.00	1/2	3,838.14	1/2	3,628.77	1/2	3,419.40	1/2	3,120.69	1/2	2,780.18
3/4		3/4		3/4		3/4	4,407.15	3/4	4,251.12	3/4	4,042.66	3/4	3,833.78	3/4	3,624.41	3/4	3,415.04	3/4	3,113.61

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 10" HATCH ON EXPANSION DOME.
 GAUGE POINT: (10" HATCH) LOCATED 3'-03" OFF CENTERLINE AND 82'-08" FORWARD OF AFT BULKHEAD.

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



BARGE "HSM 3310"

formerly the
BARGE "FMT 3310"

3 STBD
ULLAGE TABLE
10" HATCH
GAUGE HEIGHT 18'-02 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,765.99	0	2,424.95	0	2,083.56	0	1,742.17	0	1,400.78	0	1,059.45	0	718.50	0	377.11	0	39.48	0	
1/4	2,758.90	1/4	2,417.84	1/4	2,076.45	1/4	1,735.06	1/4	1,393.67	1/4	1,052.36	1/4	711.39	1/4	370.00	1/4	34.15	1/4	
1/2	2,751.80	1/2	2,410.73	1/2	2,069.34	1/2	1,727.95	1/2	1,386.56	1/2	1,045.26	1/2	704.28	1/2	362.89	1/2	28.81	1/2	
3/4	2,744.71	3/4	2,403.61	3/4	2,062.22	3/4	1,720.83	3/4	1,379.44	3/4	1,038.16	3/4	697.16	3/4	355.78	3/4	23.48	3/4	
1	2,737.61	1	2,396.50	1	2,055.11	1	1,713.72	1	1,372.33	1	1,031.06	1	690.05	1	348.67	1	19.92	1	
1/4	2,730.52	1/4	2,389.39	1/4	2,048.00	1/4	1,706.61	1/4	1,365.22	1/4	1,023.96	1/4	682.94	1/4	341.55	1/4	16.37	1/4	
1/2	2,723.43	1/2	2,382.28	1/2	2,040.89	1/2	1,699.50	1/2	1,358.11	1/2	1,016.86	1/2	675.83	1/2	334.44	1/2	12.81	1/2	
3/4	2,716.33	3/4	2,375.16	3/4	2,033.77	3/4	1,692.38	3/4	1,350.99	3/4	1,009.77	3/4	668.71	3/4	327.33	3/4	9.26	3/4	
2	2,709.24	2	2,368.05	2	2,026.66	2	1,685.27	2	1,343.88	2	1,002.67	2	661.60	2	320.22	2	7.48	2	
1/4	2,702.14	1/4	2,360.94	1/4	2,019.55	1/4	1,678.16	1/4	1,336.77	1/4	995.57	1/4	654.49	1/4	313.10	1/4	5.70	1/4	
1/2	2,695.05	1/2	2,353.83	1/2	2,012.44	1/2	1,671.05	1/2	1,329.66	1/2	988.47	1/2	647.38	1/2	305.99	1/2	3.92	1/2	
3/4	2,687.95	3/4	2,346.72	3/4	2,005.33	3/4	1,663.93	3/4	1,322.54	3/4	981.37	3/4	640.27	3/4	298.88	3/4	2.14	3/4	
3	2,680.86	3	2,339.60	3	1,998.21	3	1,656.82	3	1,315.43	3	974.27	3	633.15	3	291.77	3		3	
1/4	2,673.77	1/4	2,332.49	1/4	1,991.10	1/4	1,649.71	1/4	1,308.32	1/4	967.17	1/4	626.04	1/4	284.66	1/4		1/4	
1/2	2,666.67	1/2	2,325.38	1/2	1,983.99	1/2	1,642.60	1/2	1,301.21	1/2	960.08	1/2	618.93	1/2	277.54	1/2		1/2	
3/4	2,659.58	3/4	2,318.27	3/4	1,976.88	3/4	1,635.49	3/4	1,294.10	3/4	952.98	3/4	611.82	3/4	270.43	3/4		3/4	
4	2,652.48	4	2,311.15	4	1,969.76	4	1,628.37	4	1,286.98	4	945.88	4	604.70	4	263.32	4		4	
1/4	2,645.39	1/4	2,304.04	1/4	1,962.65	1/4	1,621.26	1/4	1,279.87	1/4	938.78	1/4	597.59	1/4	256.21	1/4		1/4	
1/2	2,638.29	1/2	2,296.93	1/2	1,955.54	1/2	1,614.15	1/2	1,272.76	1/2	931.68	1/2	590.48	1/2	249.09	1/2		1/2	
3/4	2,631.20	3/4	2,289.82	3/4	1,948.43	3/4	1,607.04	3/4	1,265.65	3/4	924.59	3/4	583.37	3/4	241.98	3/4		3/4	
5	2,624.10	5	2,282.70	5	1,941.31	5	1,599.92	5	1,258.53	5	917.49	5	576.26	5	234.87	5		5	
1/4	2,616.99	1/4	2,275.59	1/4	1,934.20	1/4	1,592.81	1/4	1,251.42	1/4	910.39	1/4	569.14	1/4	227.76	1/4		1/4	
1/2	2,609.89	1/2	2,268.48	1/2	1,927.09	1/2	1,585.70	1/2	1,244.31	1/2	903.29	1/2	562.03	1/2	220.65	1/2		1/2	
3/4	2,602.79	3/4	2,261.37	3/4	1,919.98	3/4	1,578.59	3/4	1,237.20	3/4	896.19	3/4	554.92	3/4	213.53	3/4		3/4	
6	2,595.67	6	2,254.26	6	1,912.87	6	1,571.47	6	1,230.08	6	889.09	6	547.81	6	206.42	6		6	
1/4	2,588.56	1/4	2,247.14	1/4	1,905.75	1/4	1,564.36	1/4	1,222.97	1/4	882.00	1/4	540.69	1/4	199.31	1/4		1/4	
1/2	2,581.45	1/2	2,240.03	1/2	1,898.64	1/2	1,557.25	1/2	1,215.86	1/2	874.90	1/2	533.58	1/2	192.20	1/2		1/2	
3/4	2,574.33	3/4	2,232.92	3/4	1,891.53	3/4	1,550.14	3/4	1,208.75	3/4	867.80	3/4	526.47	3/4	185.08	3/4		3/4	
7	2,567.22	7	2,225.81	7	1,884.42	7	1,543.03	7	1,201.64	7	860.70	7	519.36	7	177.97	7		7	
1/4	2,560.11	1/4	2,218.69	1/4	1,877.30	1/4	1,535.91	1/4	1,194.52	1/4	853.60	1/4	512.25	1/4	170.86	1/4		1/4	
1/2	2,552.99	1/2	2,211.58	1/2	1,870.19	1/2	1,528.80	1/2	1,187.41	1/2	846.49	1/2	505.13	1/2	163.75	1/2		1/2	
3/4	2,545.88	3/4	2,204.47	3/4	1,863.08	3/4	1,521.69	3/4	1,180.30	3/4	839.39	3/4	498.02	3/4	156.64	3/4		3/4	
8	2,538.77	8	2,197.36	8	1,855.97	8	1,514.58	8	1,173.19	8	832.28	8	490.91	8	149.52	8		8	
1/4	2,531.65	1/4	2,190.25	1/4	1,848.85	1/4	1,507.46	1/4	1,166.07	1/4	825.17	1/4	483.80	1/4	142.41	1/4		1/4	
1/2	2,524.54	1/2	2,183.13	1/2	1,841.74	1/2	1,500.35	1/2	1,158.96	1/2	818.07	1/2	476.68	1/2	135.30	1/2		1/2	
3/4	2,517.43	3/4	2,176.02	3/4	1,834.63	3/4	1,493.24	3/4	1,151.85	3/4	810.96	3/4	469.57	3/4	128.19	3/4		3/4	
9	2,510.31	9	2,168.91	9	1,827.52	9	1,486.13	9	1,144.74	9	803.85	9	462.46	9	121.08	9		9	
1/4	2,503.19	1/4	2,161.80	1/4	1,820.41	1/4	1,479.02	1/4	1,137.62	1/4	796.73	1/4	455.35	1/4	113.98	1/4		1/4	
1/2	2,496.08	1/2	2,154.68	1/2	1,813.29	1/2	1,471.90	1/2	1,130.51	1/2	789.62	1/2	448.24	1/2	106.87	1/2		1/2	
3/4	2,488.96	3/4	2,147.57	3/4	1,806.18	3/4	1,464.79	3/4	1,123.40	3/4	782.51	3/4	441.12	3/4	99.76	3/4		3/4	
10	2,481.85	10	2,140.46	10	1,799.07	10	1,457.68	10	1,116.29	10	775.40	10	434.01	10	92.68	10		10	
1/4	2,474.74	1/4	2,133.35	1/4	1,791.96	1/4	1,450.57	1/4	1,109.18	1/4	768.28	1/4	426.90	1/4	85.59	1/4		1/4	
1/2	2,467.62	1/2	2,126.23	1/2	1,784.84	1/2	1,443.45	1/2	1,102.07	1/2	761.17	1/2	419.79	1/2	78.50	1/2		1/2	
3/4	2,460.51	3/4	2,119.12	3/4	1,777.73	3/4	1,436.34	3/4	1,094.96	3/4	754.06	3/4	412.67	3/4	71.41	3/4		3/4	
11	2,453.40	11	2,112.01	11	1,770.62	11	1,429.23	11	1,087.86	11	746.95	11	405.56	11	64.76	11		11	
1/4	2,446.29	1/4	2,104.90	1/4	1,763.51	1/4	1,422.12	1/4	1,080.76	1/4	739.84	1/4	398.45	1/4	58.11	1/4		1/4	
1/2	2,439.18	1/2	2,097.79	1/2	1,756.39	1/2	1,415.00	1/2	1,073.65	1/2	732.72	1/2	391.34	1/2	51.46	1/2		1/2	
3/4	2,432.06	3/4	2,090.67	3/4	1,749.28	3/4	1,407.89	3/4	1,066.55	3/4	725.61	3/4	384.23	3/4	44.81	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/15/2020 CL
CALCULATED: 07/16/2020 CL
PRINTED: 07/16/2020 JS

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

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