



BARGE "CTCO 357B"

INNAGE TRIM TABLE

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 1 PORT IS 00-3/8"
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED INNAGE IS 4'-00 3/8"

LENGTH BETWEEN DRAFT MARKS: 275'-03"

May 15, 2015

**PRECISION MEASUREMENT
& ANALYSIS, INC.**

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "CTCo 357B"

STBD SLOP INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT: 14'- 11 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	1,061	0	2,095	0	3,080	0	4,016	0		0		0		0		0	
1/4	22	1/4	1,083	1/4	2,116	1/4	3,100	1/4	4,035	1/4		1/4	3,100	1/4	4,035	1/4	5,020	1/4	6,005
1/2	44	1/2	1,105	1/2	2,137	1/2	3,120	1/2	4,054	1/2		1/2	3,120	1/2	4,054	1/2	5,039	1/2	6,024
3/4	66	3/4	1,127	3/4	2,158	3/4	3,140	3/4	4,073	3/4		3/4	3,140	3/4	4,073	3/4	5,058	3/4	6,043
1	88	1	1,149	1	2,179	1	3,160	1	4,092	1		1	3,160	1	4,092	1	5,077	1	6,058
1/4	111	1/4	1,171	1/4	2,200	1/4	3,180	1/4	4,111	1/4		1/4	3,180	1/4	4,111	1/4	5,096	1/4	6,077
1/2	133	1/2	1,193	1/2	2,221	1/2	3,200	1/2	4,129	1/2		1/2	3,200	1/2	4,129	1/2	5,115	1/2	6,096
3/4	155	3/4	1,215	3/4	2,242	3/4	3,220	3/4	4,148	3/4		3/4	3,220	3/4	4,148	3/4	5,134	3/4	6,115
2	177	2	1,237	2	2,263	2	3,240	2	4,167	2		2	3,240	2	4,167	2	5,153	2	6,134
1/4	199	1/4	1,259	1/4	2,284	1/4	3,260	1/4	4,186	1/4		1/4	3,260	1/4	4,186	1/4	5,172	1/4	6,153
1/2	221	1/2	1,281	1/2	2,305	1/2	3,279	1/2	4,205	1/2		1/2	3,279	1/2	4,205	1/2	5,191	1/2	6,172
3/4	243	3/4	1,302	3/4	2,325	3/4	3,299	3/4	4,223	3/4		3/4	3,299	3/4	4,223	3/4	5,210	3/4	6,191
3	265	3	1,324	3	2,346	3	3,319	3	4,242	3		3	3,319	3	4,242	3	5,229	3	6,210
1/4	287	1/4	1,346	1/4	2,367	1/4	3,339	1/4	4,261	1/4		1/4	3,339	1/4	4,261	1/4	5,248	1/4	6,229
1/2	309	1/2	1,368	1/2	2,388	1/2	3,358	1/2	4,279	1/2		1/2	3,358	1/2	4,279	1/2	5,267	1/2	6,248
3/4	332	3/4	1,390	3/4	2,408	3/4	3,378	3/4	4,298	3/4		3/4	3,378	3/4	4,298	3/4	5,286	3/4	6,267
4	354	4	1,411	4	2,429	4	3,398	4	4,317	4		4	3,398	4	4,317	4	5,305	4	6,286
1/4	376	1/4	1,433	1/4	2,450	1/4	3,417	1/4	4,335	1/4		1/4	3,417	1/4	4,335	1/4	5,324	1/4	6,305
1/2	398	1/2	1,455	1/2	2,471	1/2	3,437	1/2	4,354	1/2		1/2	3,437	1/2	4,354	1/2	5,343	1/2	6,324
3/4	420	3/4	1,476	3/4	2,491	3/4	3,457	3/4	4,373	3/4		3/4	3,457	3/4	4,373	3/4	5,362	3/4	6,343
5	442	5	1,498	5	2,512	5	3,476	5	4,391	5		5	3,476	5	4,391	5	5,381	5	6,362
1/4	464	1/4	1,520	1/4	2,532	1/4	3,496	1/4	4,410	1/4		1/4	3,496	1/4	4,410	1/4	5,400	1/4	6,381
1/2	486	1/2	1,541	1/2	2,553	1/2	3,515	1/2	4,428	1/2		1/2	3,515	1/2	4,428	1/2	5,419	1/2	6,400
3/4	508	3/4	1,563	3/4	2,574	3/4	3,535	3/4		3/4		3/4	3,535	3/4	4,447	3/4	5,438	3/4	6,419
6	531	6	1,584	6	2,594	6	3,554	6		6		6	3,554	6	4,466	6	5,457	6	6,438
1/4	553	1/4	1,606	1/4	2,615	1/4	3,574	1/4		1/4		1/4	3,574	1/4	4,485	1/4	5,476	1/4	6,457
1/2	575	1/2	1,627	1/2	2,635	1/2	3,593	1/2		1/2		1/2	3,593	1/2	4,504	1/2	5,495	1/2	6,476
3/4	597	3/4	1,649	3/4	2,655	3/4	3,613	3/4		3/4		3/4	3,613	3/4	4,523	3/4	5,514	3/4	6,495
7	619	7	1,670	7	2,676	7	3,632	7		7		7	3,632	7	4,542	7	5,533	7	6,514
1/4	641	1/4	1,692	1/4	2,696	1/4	3,651	1/4		1/4		1/4	3,651	1/4	4,561	1/4	5,552	1/4	6,533
1/2	663	1/2	1,713	1/2	2,717	1/2	3,671	1/2		1/2		1/2	3,671	1/2	4,580	1/2	5,571	1/2	6,552
3/4	685	3/4	1,735	3/4	2,737	3/4	3,690	3/4		3/4		3/4	3,690	3/4	4,599	3/4	5,590	3/4	6,571
8	707	8	1,756	8	2,758	8	3,710	8		8		8	3,710	8	4,618	8	5,609	8	6,590
1/4	730	1/4	1,777	1/4	2,778	1/4	3,729	1/4		1/4		1/4	3,729	1/4	4,637	1/4	5,628	1/4	6,609
1/2	752	1/2	1,799	1/2	2,798	1/2	3,748	1/2		1/2		1/2	3,748	1/2	4,656	1/2	5,647	1/2	6,628
3/4	774	3/4	1,820	3/4	2,818	3/4	3,767	3/4		3/4		3/4	3,767	3/4	4,675	3/4	5,666	3/4	6,647
9	796	9	1,841	9	2,839	9	3,787	9		9		9	3,787	9	4,694	9	5,685	9	6,666
1/4	818	1/4	1,863	1/4	2,859	1/4	3,806	1/4		1/4		1/4	3,806	1/4	4,713	1/4	5,704	1/4	6,685
1/2	840	1/2	1,884	1/2	2,879	1/2	3,825	1/2		1/2		1/2	3,825	1/2	4,732	1/2	5,723	1/2	6,704
3/4	862	3/4	1,905	3/4	2,899	3/4	3,844	3/4		3/4		3/4	3,844	3/4	4,751	3/4	5,742	3/4	6,723
10	884	10	1,926	10	2,920	10	3,863	10		10		10	3,863	10	4,770	10	5,761	10	6,742
1/4	906	1/4	1,948	1/4	2,940	1/4	3,883	1/4		1/4		1/4	3,883	1/4	4,789	1/4	5,780	1/4	6,761
1/2	928	1/2	1,969	1/2	2,960	1/2	3,902	1/2		1/2		1/2	3,902	1/2	4,808	1/2	5,799	1/2	6,780
3/4	951	3/4	1,990	3/4	2,980	3/4	3,921	3/4		3/4		3/4	3,921	3/4	4,827	3/4	5,818	3/4	6,799
11	973	11	2,011	11	3,000	11	3,940	11		11		11	3,940	11	4,846	11	5,837	11	6,818
1/4	995	1/4	2,032	1/4	3,020	1/4	3,959	1/4		1/4		1/4	3,959	1/4	4,865	1/4	5,856	1/4	6,837
1/2	1,017	1/2	2,053	1/2	3,040	1/2	3,978	1/2		1/2		1/2	3,978	1/2	4,884	1/2	5,875	1/2	6,856
3/4	1,039	3/4	2,074	3/4	3,060	3/4	3,997	3/4		3/4		3/4	3,997	3/4	4,903	3/4	5,894	3/4	6,875

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 AT GAUGE POINT

STRAPPED: 05/15/2015 CL
CALCULATED: 05/15/2015 CL
PRINTED: 05/15/2015 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2015

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



BARGE "CTCo 357B"

PORT SLOP INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT: 14'- 11 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	1,061	0	2,095	0	3,080	0	4,016	0		0		0		0		0	
1/4	22	1/4	1,083	1/4	2,116	1/4	3,100	1/4	4,035	1/4		1/4	3,100	1/4	4,035	1/4	5,020	1/4	6,005
1/2	44	1/2	1,105	1/2	2,137	1/2	3,120	1/2	4,054	1/2		1/2	3,120	1/2	4,054	1/2	5,039	1/2	6,020
3/4	66	3/4	1,127	3/4	2,158	3/4	3,140	3/4	4,073	3/4		3/4	3,140	3/4	4,073	3/4	5,054	3/4	6,035
1	88	1	1,149	1	2,179	1	3,160	1	4,092	1		1	3,160	1	4,092	1	5,069	1	6,050
1/4	111	1/4	1,171	1/4	2,200	1/4	3,180	1/4	4,111	1/4		1/4	3,180	1/4	4,111	1/4	5,084	1/4	6,070
1/2	133	1/2	1,193	1/2	2,221	1/2	3,200	1/2	4,129	1/2		1/2	3,200	1/2	4,129	1/2	5,099	1/2	6,085
3/4	155	3/4	1,215	3/4	2,242	3/4	3,220	3/4	4,148	3/4		3/4	3,220	3/4	4,148	3/4	5,114	3/4	6,095
2	177	2	1,237	2	2,263	2	3,240	2	4,167	2		2	3,240	2	4,167	2	5,129	2	6,110
1/4	199	1/4	1,259	1/4	2,284	1/4	3,260	1/4	4,186	1/4		1/4	3,260	1/4	4,186	1/4	5,144	1/4	6,120
1/2	221	1/2	1,281	1/2	2,305	1/2	3,279	1/2	4,205	1/2		1/2	3,279	1/2	4,205	1/2	5,159	1/2	6,135
3/4	243	3/4	1,302	3/4	2,325	3/4	3,299	3/4	4,223	3/4		3/4	3,299	3/4	4,223	3/4	5,174	3/4	6,145
3	265	3	1,324	3	2,346	3	3,319	3	4,242	3		3	3,319	3	4,242	3	5,189	3	6,155
1/4	287	1/4	1,346	1/4	2,367	1/4	3,339	1/4	4,261	1/4		1/4	3,339	1/4	4,261	1/4	5,204	1/4	6,165
1/2	309	1/2	1,368	1/2	2,388	1/2	3,358	1/2	4,279	1/2		1/2	3,358	1/2	4,279	1/2	5,219	1/2	6,175
3/4	332	3/4	1,390	3/4	2,408	3/4	3,378	3/4	4,298	3/4		3/4	3,378	3/4	4,298	3/4	5,234	3/4	6,185
4	354	4	1,411	4	2,429	4	3,398	4	4,317	4		4	3,398	4	4,317	4	5,249	4	6,195
1/4	376	1/4	1,433	1/4	2,450	1/4	3,417	1/4	4,335	1/4		1/4	3,417	1/4	4,335	1/4	5,264	1/4	6,205
1/2	398	1/2	1,455	1/2	2,471	1/2	3,437	1/2	4,354	1/2		1/2	3,437	1/2	4,354	1/2	5,279	1/2	6,215
3/4	420	3/4	1,476	3/4	2,491	3/4	3,457	3/4	4,373	3/4		3/4	3,457	3/4	4,373	3/4	5,294	3/4	6,225
5	442	5	1,498	5	2,512	5	3,476	5	4,391	5		5	3,476	5	4,391	5	5,309	5	6,235
1/4	464	1/4	1,520	1/4	2,532	1/4	3,496	1/4	4,410	1/4		1/4	3,496	1/4	4,410	1/4	5,324	1/4	6,245
1/2	486	1/2	1,541	1/2	2,553	1/2	3,515	1/2	4,428	1/2		1/2	3,515	1/2	4,428	1/2	5,339	1/2	6,255
3/4	508	3/4	1,563	3/4	2,574	3/4	3,535	3/4		3/4		3/4	3,535	3/4	4,447	3/4	5,354	3/4	6,265
6	531	6	1,584	6	2,594	6	3,554	6		6		6	3,554	6	4,466	6	5,369	6	6,275
1/4	553	1/4	1,606	1/4	2,615	1/4	3,574	1/4		1/4		1/4	3,574	1/4	4,485	1/4	5,384	1/4	6,285
1/2	575	1/2	1,627	1/2	2,635	1/2	3,593	1/2		1/2		1/2	3,593	1/2	4,504	1/2	5,399	1/2	6,295
3/4	597	3/4	1,649	3/4	2,655	3/4	3,613	3/4		3/4		3/4	3,613	3/4	4,523	3/4	5,414	3/4	6,305
7	619	7	1,670	7	2,676	7	3,632	7		7		7	3,632	7	4,542	7	5,429	7	6,315
1/4	641	1/4	1,692	1/4	2,696	1/4	3,651	1/4		1/4		1/4	3,651	1/4	4,561	1/4	5,444	1/4	6,325
1/2	663	1/2	1,713	1/2	2,717	1/2	3,671	1/2		1/2		1/2	3,671	1/2	4,580	1/2	5,459	1/2	6,335
3/4	685	3/4	1,735	3/4	2,737	3/4	3,690	3/4		3/4		3/4	3,690	3/4	4,599	3/4	5,474	3/4	6,345
8	707	8	1,756	8	2,758	8	3,710	8		8		8	3,710	8	4,618	8	5,489	8	6,355
1/4	730	1/4	1,777	1/4	2,778	1/4	3,729	1/4		1/4		1/4	3,729	1/4	4,637	1/4	5,504	1/4	6,365
1/2	752	1/2	1,799	1/2	2,798	1/2	3,748	1/2		1/2		1/2	3,748	1/2	4,656	1/2	5,519	1/2	6,375
3/4	774	3/4	1,820	3/4	2,818	3/4	3,767	3/4		3/4		3/4	3,767	3/4	4,675	3/4	5,534	3/4	6,385
9	796	9	1,841	9	2,839	9	3,787	9		9		9	3,787	9	4,694	9	5,549	9	6,395
1/4	818	1/4	1,863	1/4	2,859	1/4	3,806	1/4		1/4		1/4	3,806	1/4	4,713	1/4	5,564	1/4	6,405
1/2	840	1/2	1,884	1/2	2,879	1/2	3,825	1/2		1/2		1/2	3,825	1/2	4,732	1/2	5,579	1/2	6,415
3/4	862	3/4	1,905	3/4	2,899	3/4	3,844	3/4		3/4		3/4	3,844	3/4	4,751	3/4	5,594	3/4	6,425
10	884	10	1,926	10	2,920	10	3,863	10		10		10	3,863	10	4,770	10	5,609	10	6,435
1/4	906	1/4	1,948	1/4	2,940	1/4	3,883	1/4		1/4		1/4	3,883	1/4	4,789	1/4	5,624	1/4	6,445
1/2	928	1/2	1,969	1/2	2,960	1/2	3,902	1/2		1/2		1/2	3,902	1/2	4,808	1/2	5,639	1/2	6,455
3/4	951	3/4	1,990	3/4	2,980	3/4	3,921	3/4		3/4		3/4	3,921	3/4	4,827	3/4	5,654	3/4	6,465
11	973	11	2,011	11	3,000	11	3,940	11		11		11	3,940	11	4,846	11	5,669	11	6,475
1/4	995	1/4	2,032	1/4	3,020	1/4	3,959	1/4		1/4		1/4	3,959	1/4	4,865	1/4	5,684	1/4	6,485
1/2	1,017	1/2	2,053	1/2	3,040	1/2	3,978	1/2		1/2		1/2	3,978	1/2	4,884	1/2	5,699	1/2	6,495
3/4	1,039	3/4	2,074	3/4	3,060	3/4	3,997	3/4		3/4		3/4	3,997	3/4	4,903	3/4	5,714	3/4	6,505

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 AT GAUGE POINT

STRAPPED: 05/15/2015 CL
CALCULATED: 05/15/2015 CL
PRINTED: 05/15/2015 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2015

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



BARGE "CTCo 357B"

CENTER FUEL INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT: 14'- 11 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	192	0	384	0	576	0	768	0		0		0		0		0	
1/4	4	1/4	196	1/4	388	1/4	580	1/4	772	1/4		1/4		1/4		1/4		1/4	
1/2	8	1/2	200	1/2	392	1/2	584	1/2	776	1/2		1/2		1/2		1/2		1/2	
3/4	12	3/4	204	3/4	396	3/4	588	3/4	780	3/4		3/4		3/4		3/4		3/4	
1	16	1	208	1	400	1	592	1	784	1		1		1		1		1	
1/4	20	1/4	212	1/4	404	1/4	596	1/4	788	1/4		1/4		1/4		1/4		1/4	
1/2	24	1/2	216	1/2	408	1/2	600	1/2	792	1/2		1/2		1/2		1/2		1/2	
3/4	28	3/4	220	3/4	412	3/4	604	3/4	796	3/4		3/4		3/4		3/4		3/4	
2	32	2	224	2	416	2	608	2	800	2		2		2		2		2	
1/4	36	1/4	228	1/4	420	1/4	612	1/4	804	1/4		1/4		1/4		1/4		1/4	
1/2	40	1/2	232	1/2	424	1/2	616	1/2	808	1/2		1/2		1/2		1/2		1/2	
3/4	44	3/4	236	3/4	428	3/4	620	3/4	812	3/4		3/4		3/4		3/4		3/4	
3	48	3	240	3	432	3	624	3	816	3		3		3		3		3	
1/4	52	1/4	244	1/4	436	1/4	628	1/4	820	1/4		1/4		1/4		1/4		1/4	
1/2	56	1/2	248	1/2	440	1/2	632	1/2	824	1/2		1/2		1/2		1/2		1/2	
3/4	60	3/4	252	3/4	444	3/4	636	3/4	828	3/4		3/4		3/4		3/4		3/4	
4	64	4	256	4	448	4	640	4	832	4		4		4		4		4	
1/4	68	1/4	260	1/4	452	1/4	644	1/4	836	1/4		1/4		1/4		1/4		1/4	
1/2	72	1/2	264	1/2	456	1/2	648	1/2	840	1/2		1/2		1/2		1/2		1/2	
3/4	76	3/4	268	3/4	460	3/4	652	3/4	844	3/4		3/4		3/4		3/4		3/4	
5	80	5	272	5	464	5	656	5	848	5		5		5		5		5	
1/4	84	1/4	276	1/4	468	1/4	660	1/4	852	1/4		1/4		1/4		1/4		1/4	
1/2	88	1/2	280	1/2	472	1/2	664	1/2	856	1/2		1/2		1/2		1/2		1/2	
3/4	92	3/4	284	3/4	476	3/4	668	3/4	860	3/4		3/4		3/4		3/4		3/4	
6	96	6	288	6	480	6	672	6		6		6		6		6		6	
1/4	100	1/4	292	1/4	484	1/4	676	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	104	1/2	296	1/2	488	1/2	680	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	108	3/4	300	3/4	492	3/4	684	3/4		3/4		3/4		3/4		3/4		3/4	
7	112	7	304	7	496	7	688	7		7		7		7		7		7	
1/4	116	1/4	308	1/4	500	1/4	692	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	120	1/2	312	1/2	504	1/2	696	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	124	3/4	316	3/4	508	3/4	700	3/4		3/4		3/4		3/4		3/4		3/4	
8	128	8	320	8	512	8	704	8		8		8		8		8		8	
1/4	132	1/4	324	1/4	516	1/4	708	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	136	1/2	328	1/2	520	1/2	712	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	140	3/4	332	3/4	524	3/4	716	3/4		3/4		3/4		3/4		3/4		3/4	
9	144	9	336	9	528	9	720	9		9		9		9		9		9	
1/4	148	1/4	340	1/4	532	1/4	724	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152	1/2	344	1/2	536	1/2	728	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156	3/4	348	3/4	540	3/4	732	3/4		3/4		3/4		3/4		3/4		3/4	
10	160	10	352	10	544	10	736	10		10		10		10		10		10	
1/4	164	1/4	356	1/4	548	1/4	740	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	168	1/2	360	1/2	552	1/2	744	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	172	3/4	364	3/4	556	3/4	748	3/4		3/4		3/4		3/4		3/4		3/4	
11	176	11	368	11	560	11	752	11		11		11		11		11		11	
1/4	180	1/4	372	1/4	564	1/4	756	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	184	1/2	376	1/2	568	1/2	760	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	188	3/4	380	3/4	572	3/4	764	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK AT GAUGE POINT

STRAPPED: 05/15/2015 CL
CALCULATED: 05/15/2015 CL
PRINTED: 05/15/2015 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2015

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



BARGE "CTCo 357B"

**3 STBD
INNAGE TABLE**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-11 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,877.51	0	4,255.16	0	4,616.22	0	4,960.68	0		0		0		0		0		0	
1/4	3,885.53	1/4	4,262.84	1/4	4,623.56	1/4	4,967.67	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,893.56	1/2	4,270.52	1/2	4,630.89	1/2	4,974.66	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,901.58	3/4	4,278.20	3/4	4,638.23	3/4	4,981.65	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,909.61	1	4,285.89	1	4,645.56	1	4,988.64	1		1		1		1		1		1	
1/4	3,917.61	1/4	4,293.54	1/4	4,652.87	1/4	4,995.60	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,925.61	1/2	4,301.19	1/2	4,660.17	1/2	5,002.56	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,933.60	3/4	4,308.84	3/4	4,667.48	3/4	5,009.52	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,941.60	2	4,316.49	2	4,674.78	2	5,016.48	2		2		2		2		2		2	
1/4	3,949.57	1/4	4,324.12	1/4	4,682.06	1/4	5,023.41	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,957.54	1/2	4,331.74	1/2	4,689.34	1/2	5,030.34	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,965.51	3/4	4,339.36	3/4	4,696.62	3/4	5,037.27	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,973.48	3	4,346.98	3	4,703.89	3	5,044.20	3		3		3		3		3		3	
1/4	3,981.42	1/4	4,354.58	1/4	4,711.14	1/4	5,051.41	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,989.36	1/2	4,362.17	1/2	4,718.39	1/2	5,058.62	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,997.30	3/4	4,369.77	3/4	4,725.64	3/4	5,065.83	3/4		3/4		3/4		3/4		3/4		3/4	
4	4,005.24	4	4,377.36	4	4,732.89	4	5,073.04	4		4		4		4		4		4	
1/4	4,013.15	1/4	4,384.93	1/4	4,740.11	1/4	5,081.14	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,021.06	1/2	4,392.49	1/2	4,747.32	1/2	5,089.25	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,028.97	3/4	4,400.06	3/4	4,754.54	3/4	5,097.35	3/4		3/4		3/4		3/4		3/4		3/4	
5	4,036.88	5	4,407.62	5	4,761.76	5	5,105.46	5		5		5		5		5		5	
1/4	4,044.76	1/4	4,415.16	1/4	4,768.95	1/4	5,113.56	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,052.64	1/2	4,422.69	1/2	4,776.14	1/2	5,121.67	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,060.53	3/4	4,430.23	3/4	4,783.34	3/4	5,129.78	3/4		3/4		3/4		3/4		3/4		3/4	
6	4,068.41	6	4,437.77	6	4,790.53	6	5,137.88	6		6		6		6		6		6	
1/4	4,076.26	1/4	4,445.28	1/4	4,797.69	1/4	5,145.99	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,084.12	1/2	4,452.78	1/2	4,804.85	1/2	5,154.09	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,091.97	3/4	4,460.29	3/4	4,812.01	3/4	5,162.20	3/4		3/4		3/4		3/4		3/4		3/4	
7	4,099.82	7	4,467.80	7	4,819.17	7	5,170.30	7		7		7		7		7		7	
1/4	4,107.65	1/4	4,475.28	1/4	4,826.31	1/4	5,178.41	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,115.47	1/2	4,482.76	1/2	4,833.44	1/2	5,186.52	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,123.30	3/4	4,490.23	3/4	4,840.57	3/4	5,194.62	3/4		3/4		3/4		3/4		3/4		3/4	
8	4,131.12	8	4,497.71	8	4,847.71	8	5,202.73	8		8		8		8		8		8	
1/4	4,138.92	1/4	4,505.16	1/4	4,854.81	1/4	5,210.83	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,146.71	1/2	4,512.61	1/2	4,861.91	1/2	5,218.94	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,154.51	3/4	4,520.06	3/4	4,869.02	3/4	5,227.04	3/4		3/4		3/4		3/4		3/4		3/4	
9	4,162.30	9	4,527.51	9	4,876.12	9	5,235.15	9		9		9		9		9		9	
1/4	4,170.07	1/4	4,534.93	1/4	4,883.20	1/4	5,242.75	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,177.84	1/2	4,542.36	1/2	4,890.27	1/2	5,250.35	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,185.61	3/4	4,549.78	3/4	4,897.35	3/4	5,257.95	3/4		3/4		3/4		3/4		3/4		3/4	
10	4,193.37	10	4,557.20	10	4,904.42	10	5,265.54	10		10		10		10		10		10	
1/4	4,201.11	1/4	4,564.59	1/4	4,911.47	1/4	5,271.12	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,208.85	1/2	4,571.98	1/2	4,918.52	1/2	5,276.69	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,216.59	3/4	4,579.38	3/4	4,925.56	3/4	5,282.26	3/4		3/4		3/4		3/4		3/4		3/4	
11	4,224.33	11	4,586.77	11	4,932.61	11	5,287.83	11		11		11		11		11		11	
1/4	4,232.04	1/4	4,594.13	1/4	4,939.63	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,239.74	1/2	4,601.49	1/2	4,946.64	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,247.45	3/4	4,608.86	3/4	4,953.66	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/15/2015 CL
CALCULATED: 05/15/2015 CL
PRINTED: 05/15/2015 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2015

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



BARGE "CTCo 357B"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-11 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,890.64	0	4,268.14	0	4,628.03	0	4,970.35	0		0		0		0		0		0	
1/4	3,898.69	1/4	4,275.80	1/4	4,635.31	1/4	4,977.29	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,906.74	1/2	4,283.46	1/2	4,642.60	1/2	4,984.24	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,914.78	3/4	4,291.12	3/4	4,649.88	3/4	4,991.19	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,922.83	1	4,298.78	1	4,657.17	1	4,998.14	1		1		1		1		1		1	
1/4	3,930.85	1/4	4,306.42	1/4	4,664.42	1/4	5,005.06	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,938.86	1/2	4,314.05	1/2	4,671.68	1/2	5,011.98	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,946.88	3/4	4,321.69	3/4	4,678.94	3/4	5,018.89	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,954.90	2	4,329.33	2	4,686.19	2	5,025.81	2		2		2		2		2		2	
1/4	3,962.89	1/4	4,336.94	1/4	4,693.42	1/4	5,032.70	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,970.87	1/2	4,344.55	1/2	4,700.65	1/2	5,039.59	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,978.86	3/4	4,352.16	3/4	4,707.88	3/4	5,046.48	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,986.85	3	4,359.77	3	4,715.10	3	5,053.37	3		3		3		3		3		3	
1/4	3,994.81	1/4	4,367.35	1/4	4,722.30	1/4	5,060.54	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,002.77	1/2	4,374.93	1/2	4,729.50	1/2	5,067.71	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,010.73	3/4	4,382.51	3/4	4,736.70	3/4	5,074.88	3/4		3/4		3/4		3/4		3/4		3/4	
4	4,018.69	4	4,390.09	4	4,743.90	4	5,082.04	4		4		4		4		4		4	
1/4	4,026.61	1/4	4,397.64	1/4	4,751.07	1/4	5,090.11	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,034.54	1/2	4,405.19	1/2	4,758.24	1/2	5,098.17	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,042.46	3/4	4,412.74	3/4	4,765.41	3/4	5,106.23	3/4		3/4		3/4		3/4		3/4		3/4	
5	4,050.38	5	4,420.29	5	4,772.59	5	5,114.30	5		5		5		5		5		5	
1/4	4,058.25	1/4	4,427.82	1/4	4,779.74	1/4	5,122.36	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,066.12	1/2	4,435.34	1/2	4,786.89	1/2	5,130.42	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,073.99	3/4	4,442.86	3/4	4,794.03	3/4	5,138.49	3/4		3/4		3/4		3/4		3/4		3/4	
6	4,081.85	6	4,450.38	6	4,801.18	6	5,146.55	6		6		6		6		6		6	
1/4	4,089.69	1/4	4,457.88	1/4	4,808.30	1/4	5,154.62	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,097.53	1/2	4,465.37	1/2	4,815.42	1/2	5,162.69	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,105.37	3/4	4,472.87	3/4	4,822.54	3/4	5,170.76	3/4		3/4		3/4		3/4		3/4		3/4	
7	4,113.21	7	4,480.36	7	4,829.67	7	5,178.83	7		7		7		7		7		7	
1/4	4,121.02	1/4	4,487.82	1/4	4,836.76	1/4	5,186.92	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,128.83	1/2	4,495.28	1/2	4,843.85	1/2	5,195.01	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,136.64	3/4	4,502.74	3/4	4,850.94	3/4	5,203.10	3/4		3/4		3/4		3/4		3/4		3/4	
8	4,144.45	8	4,510.19	8	4,858.03	8	5,211.19	8		8		8		8		8		8	
1/4	4,152.22	1/4	4,517.60	1/4	4,865.09	1/4	5,219.29	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,159.99	1/2	4,525.01	1/2	4,872.16	1/2	5,227.38	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,167.77	3/4	4,532.42	3/4	4,879.22	3/4	5,235.47	3/4		3/4		3/4		3/4		3/4		3/4	
9	4,175.54	9	4,539.83	9	4,886.28	9	5,243.56	9		9		9		9		9		9	
1/4	4,183.29	1/4	4,547.21	1/4	4,893.32	1/4	5,251.14	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,191.03	1/2	4,554.59	1/2	4,900.35	1/2	5,258.73	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,198.78	3/4	4,561.96	3/4	4,907.39	3/4	5,266.31	3/4		3/4		3/4		3/4		3/4		3/4	
10	4,206.52	10	4,569.34	10	4,914.42	10	5,273.90	10		10		10		10		10		10	
1/4	4,214.24	1/4	4,576.70	1/4	4,921.42	1/4	5,279.45	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,221.95	1/2	4,584.05	1/2	4,928.43	1/2	5,285.01	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,229.67	3/4	4,591.40	3/4	4,935.44	3/4	5,290.56	3/4		3/4		3/4		3/4		3/4		3/4	
11	4,237.39	11	4,598.75	11	4,942.44	11	5,296.11	11		11		11		11		11		11	
1/4	4,245.07	1/4	4,606.07	1/4	4,949.42	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,252.76	1/2	4,613.39	1/2	4,956.39	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,260.45	3/4	4,620.71	3/4	4,963.37	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/15/2015 CL
CALCULATED: 05/15/2015 CL
PRINTED: 05/15/2015 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2015

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



BARGE "CTCo 357B"

2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,880.61	0	4,256.38	0	4,615.10	0	4,953.53	0		0		0		0		0		0	
1/4	3,888.60	1/4	4,264.02	1/4	4,622.35	1/4	4,959.98	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,896.59	1/2	4,271.66	1/2	4,629.60	1/2	4,966.43	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,904.58	3/4	4,279.30	3/4	4,636.85	3/4	4,972.87	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,912.57	1	4,286.93	1	4,644.11	1	4,979.32	1		1		1		1		1		1	
1/4	3,920.54	1/4	4,294.55	1/4	4,651.33	1/4	4,985.73	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,928.50	1/2	4,302.17	1/2	4,658.55	1/2	4,992.15	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,936.46	3/4	4,309.79	3/4	4,665.77	3/4	4,998.57	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,944.42	2	4,317.40	2	4,672.99	2	5,004.98	2		2		2		2		2		2	
1/4	3,952.35	1/4	4,324.99	1/4	4,680.19	1/4	5,011.37	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,960.28	1/2	4,332.58	1/2	4,687.38	1/2	5,017.76	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,968.22	3/4	4,340.17	3/4	4,694.57	3/4	5,024.15	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,976.15	3	4,347.76	3	4,701.77	3	5,030.53	3		3		3		3		3		3	
1/4	3,984.05	1/4	4,355.32	1/4	4,708.93	1/4	5,037.20	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,991.96	1/2	4,362.88	1/2	4,716.10	1/2	5,043.86	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,999.86	3/4	4,370.44	3/4	4,723.26	3/4	5,050.53	3/4		3/4		3/4		3/4		3/4		3/4	
4	4,007.77	4	4,378.00	4	4,730.43	4	5,057.19	4		4		4		4		4		4	
1/4	4,015.64	1/4	4,385.53	1/4	4,737.57	1/4	5,064.74	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,023.52	1/2	4,393.06	1/2	4,744.71	1/2	5,072.30	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,031.39	3/4	4,400.59	3/4	4,751.85	3/4	5,079.86	3/4		3/4		3/4		3/4		3/4		3/4	
5	4,039.27	5	4,408.13	5	4,758.98	5	5,087.41	5		5		5		5		5		5	
1/4	4,047.11	1/4	4,415.63	1/4	4,766.10	1/4	5,094.97	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,054.96	1/2	4,423.13	1/2	4,773.22	1/2	5,102.52	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,062.81	3/4	4,430.63	3/4	4,780.34	3/4	5,110.08	3/4		3/4		3/4		3/4		3/4		3/4	
6	4,070.66	6	4,438.14	6	4,787.46	6	5,117.63	6		6		6		6		6		6	
1/4	4,078.47	1/4	4,445.61	1/4	4,794.55	1/4	5,125.20	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,086.29	1/2	4,453.09	1/2	4,801.64	1/2	5,132.77	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,094.11	3/4	4,460.56	3/4	4,808.73	3/4	5,140.33	3/4		3/4		3/4		3/4		3/4		3/4	
7	4,101.93	7	4,468.03	7	4,815.82	7	5,147.90	7		7		7		7		7		7	
1/4	4,109.71	1/4	4,475.47	1/4	4,822.88	1/4	5,155.49	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,117.50	1/2	4,482.91	1/2	4,829.94	1/2	5,163.09	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,125.29	3/4	4,490.34	3/4	4,837.00	3/4	5,170.69	3/4		3/4		3/4		3/4		3/4		3/4	
8	4,133.07	8	4,497.78	8	4,844.06	8	5,178.28	8		8		8		8		8		8	
1/4	4,140.82	1/4	4,505.15	1/4	4,851.10	1/4	5,185.88	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,148.57	1/2	4,512.53	1/2	4,858.13	1/2	5,193.47	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,156.32	3/4	4,519.91	3/4	4,865.16	3/4	5,201.07	3/4		3/4		3/4		3/4		3/4		3/4	
9	4,164.07	9	4,527.28	9	4,872.19	9	5,208.67	9		9		9		9		9		9	
1/4	4,171.79	1/4	4,534.63	1/4	4,879.20	1/4	5,215.76	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,179.52	1/2	4,541.98	1/2	4,886.20	1/2	5,222.85	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,187.24	3/4	4,549.33	3/4	4,893.21	3/4	5,229.94	3/4		3/4		3/4		3/4		3/4		3/4	
10	4,194.96	10	4,556.67	10	4,900.21	10	5,237.03	10		10		10		10		10		10	
1/4	4,202.65	1/4	4,563.99	1/4	4,907.07	1/4	5,242.10	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,210.34	1/2	4,571.31	1/2	4,913.93	1/2	5,247.18	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,218.03	3/4	4,578.63	3/4	4,920.78	3/4	5,252.25	3/4		3/4		3/4		3/4		3/4		3/4	
11	4,225.73	11	4,585.95	11	4,927.64	11	5,257.32	11		11		11		11		11		11	
1/4	4,233.39	1/4	4,593.24	1/4	4,934.11	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,241.05	1/2	4,600.53	1/2	4,940.59	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,248.72	3/4	4,607.81	3/4	4,947.06	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/15/2015 CL
CALCULATED: 05/15/2015 CL
PRINTED: 05/15/2015 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2015

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



BARGE "CTCo 357B"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,883.19	0	4,260.61	0	4,620.87	0	4,960.70	0		0		0		0		0		0	
1/4	3,891.21	1/4	4,268.28	1/4	4,628.15	1/4	4,967.17	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,899.24	1/2	4,275.95	1/2	4,635.43	1/2	4,973.64	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,907.26	3/4	4,283.62	3/4	4,642.71	3/4	4,980.11	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,915.29	1	4,291.29	1	4,649.99	1	4,986.58	1		1		1		1		1		1	
1/4	3,923.29	1/4	4,298.94	1/4	4,657.24	1/4	4,993.03	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,931.28	1/2	4,306.59	1/2	4,664.50	1/2	4,999.47	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,939.28	3/4	4,314.24	3/4	4,671.75	3/4	5,005.91	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,947.28	2	4,321.89	2	4,679.00	2	5,012.35	2		2		2		2		2		2	
1/4	3,955.24	1/4	4,329.51	1/4	4,686.22	1/4	5,018.76	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,963.21	1/2	4,337.14	1/2	4,693.45	1/2	5,025.18	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,971.18	3/4	4,344.76	3/4	4,700.67	3/4	5,031.59	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,979.15	3	4,352.38	3	4,707.90	3	5,038.00	3		3		3		3		3		3	
1/4	3,987.09	1/4	4,359.97	1/4	4,715.09	1/4	5,044.69	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,995.02	1/2	4,367.56	1/2	4,722.29	1/2	5,051.38	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,002.96	3/4	4,375.16	3/4	4,729.48	3/4	5,058.07	3/4		3/4		3/4		3/4		3/4		3/4	
4	4,010.90	4	4,382.75	4	4,736.68	4	5,064.76	4		4		4		4		4		4	
1/4	4,018.81	1/4	4,390.31	1/4	4,743.84	1/4	5,072.35	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,026.72	1/2	4,397.88	1/2	4,751.01	1/2	5,079.94	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,034.63	3/4	4,405.44	3/4	4,758.18	3/4	5,087.53	3/4		3/4		3/4		3/4		3/4		3/4	
5	4,042.54	5	4,413.01	5	4,765.35	5	5,095.12	5		5		5		5		5		5	
1/4	4,050.42	1/4	4,420.54	1/4	4,772.50	1/4	5,102.71	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,058.31	1/2	4,428.08	1/2	4,779.65	1/2	5,110.29	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,066.19	3/4	4,435.61	3/4	4,786.80	3/4	5,117.88	3/4		3/4		3/4		3/4		3/4		3/4	
6	4,074.07	6	4,443.15	6	4,793.94	6	5,125.47	6		6		6		6		6		6	
1/4	4,081.92	1/4	4,450.65	1/4	4,801.06	1/4	5,133.07	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,089.77	1/2	4,458.16	1/2	4,808.18	1/2	5,140.67	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,097.63	3/4	4,465.67	3/4	4,815.30	3/4	5,148.26	3/4		3/4		3/4		3/4		3/4		3/4	
7	4,105.48	7	4,473.17	7	4,822.42	7	5,155.86	7		7		7		7		7		7	
1/4	4,113.30	1/4	4,480.64	1/4	4,829.51	1/4	5,163.49	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,121.12	1/2	4,488.11	1/2	4,836.60	1/2	5,171.12	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,128.94	3/4	4,495.57	3/4	4,843.69	3/4	5,178.75	3/4		3/4		3/4		3/4		3/4		3/4	
8	4,136.76	8	4,503.04	8	4,850.78	8	5,186.38	8		8		8		8		8		8	
1/4	4,144.54	1/4	4,510.45	1/4	4,857.85	1/4	5,194.01	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,152.33	1/2	4,517.86	1/2	4,864.91	1/2	5,201.64	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,160.11	3/4	4,525.26	3/4	4,871.97	3/4	5,209.27	3/4		3/4		3/4		3/4		3/4		3/4	
9	4,167.90	9	4,532.67	9	4,879.03	9	5,216.89	9		9		9		9		9		9	
1/4	4,175.65	1/4	4,540.05	1/4	4,886.07	1/4	5,224.02	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,183.40	1/2	4,547.43	1/2	4,893.10	1/2	5,231.14	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,191.16	3/4	4,554.81	3/4	4,900.13	3/4	5,238.26	3/4		3/4		3/4		3/4		3/4		3/4	
10	4,198.91	10	4,562.19	10	4,907.16	10	5,245.38	10		10		10		10		10		10	
1/4	4,206.64	1/4	4,569.54	1/4	4,914.05	1/4	5,250.48	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,214.37	1/2	4,576.89	1/2	4,920.93	1/2	5,255.57	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,222.09	3/4	4,584.24	3/4	4,927.82	3/4	5,260.67	3/4		3/4		3/4		3/4		3/4		3/4	
11	4,229.82	11	4,591.59	11	4,934.70	11	5,265.76	11		11		11		11		11		11	
1/4	4,237.52	1/4	4,598.91	1/4	4,941.20	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,245.21	1/2	4,606.23	1/2	4,947.70	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,252.91	3/4	4,613.55	3/4	4,954.20	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/15/2015 CL
CALCULATED: 05/15/2015 CL
PRINTED: 05/15/2015 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2015

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



BARGE "CTCo 357B"

1 STBD
INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-11"

Table with columns for height (0 FT. to 9 FT.) and sub-columns for depth (IN 0, 1/4, 1/2, 3/4). Rows represent gauge height from 0 to 11 feet.

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 12'-09" OFF CENTERLINE AND 51'-03" FORWARD OF AFT BULKHEAD

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

Signature of PMA



BARGE "CTCo 357B"

1 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-11"

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	3,874.71	0	4,249.92	0	4,608.16	0	4,946.67	0		0		0		0		0		0	
1/4	3,882.69	1/4	4,257.54	1/4	4,615.40	1/4	4,953.17	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,890.67	1/2	4,265.17	1/2	4,622.65	1/2	4,959.68	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,898.64	3/4	4,272.80	3/4	4,629.90	3/4	4,966.19	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,906.62	1	4,280.42	1	4,637.14	1	4,972.70	1		1		1		1		1		1	
1/4	3,914.57	1/4	4,288.03	1/4	4,644.36	1/4	4,979.18	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,922.52	1/2	4,295.63	1/2	4,651.58	1/2	4,985.66	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,930.47	3/4	4,303.24	3/4	4,658.79	3/4	4,992.13	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,938.42	2	4,310.84	2	4,666.01	2	4,998.61	2		2		2		2		2		2	
1/4	3,946.34	1/4	4,318.42	1/4	4,673.20	1/4	5,005.06	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,954.26	1/2	4,326.00	1/2	4,680.39	1/2	5,011.51	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,962.18	3/4	4,333.57	3/4	4,687.58	3/4	5,017.96	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,970.10	3	4,341.15	3	4,694.77	3	5,024.42	3		3		3		3		3		3	
1/4	3,977.99	1/4	4,348.70	1/4	4,701.93	1/4	5,031.14	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,985.88	1/2	4,356.25	1/2	4,709.09	1/2	5,037.87	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,993.78	3/4	4,363.79	3/4	4,716.25	3/4	5,044.59	3/4		3/4		3/4		3/4		3/4		3/4	
4	4,001.67	4	4,371.34	4	4,723.41	4	5,051.32	4		4		4		4		4		4	
1/4	4,009.53	1/4	4,378.86	1/4	4,730.54	1/4	5,058.94	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,017.39	1/2	4,386.38	1/2	4,737.68	1/2	5,066.56	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,025.26	3/4	4,393.90	3/4	4,744.81	3/4	5,074.17	3/4		3/4		3/4		3/4		3/4		3/4	
5	4,033.12	5	4,401.42	5	4,751.95	5	5,081.79	5		5		5		5		5		5	
1/4	4,040.95	1/4	4,408.91	1/4	4,759.06	1/4	5,089.41	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,048.79	1/2	4,416.40	1/2	4,766.17	1/2	5,097.03	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,056.62	3/4	4,423.89	3/4	4,773.28	3/4	5,104.65	3/4		3/4		3/4		3/4		3/4		3/4	
6	4,064.46	6	4,431.38	6	4,780.40	6	5,112.27	6		6		6		6		6		6	
1/4	4,072.26	1/4	4,438.84	1/4	4,787.48	1/4	5,119.89	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,080.07	1/2	4,446.30	1/2	4,794.56	1/2	5,127.52	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,087.88	3/4	4,453.77	3/4	4,801.65	3/4	5,135.15	3/4		3/4		3/4		3/4		3/4		3/4	
7	4,095.68	7	4,461.23	7	4,808.73	7	5,142.77	7		7		7		7		7		7	
1/4	4,103.46	1/4	4,468.65	1/4	4,815.79	1/4	5,150.43	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,111.23	1/2	4,476.08	1/2	4,822.84	1/2	5,158.08	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,119.01	3/4	4,483.50	3/4	4,829.90	3/4	5,165.73	3/4		3/4		3/4		3/4		3/4		3/4	
8	4,126.78	8	4,490.93	8	4,836.95	8	5,173.38	8		8		8		8		8		8	
1/4	4,134.52	1/4	4,498.30	1/4	4,843.98	1/4	5,181.03	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,142.26	1/2	4,505.67	1/2	4,851.00	1/2	5,188.69	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,150.00	3/4	4,513.04	3/4	4,858.03	3/4	5,196.34	3/4		3/4		3/4		3/4		3/4		3/4	
9	4,157.74	9	4,520.41	9	4,865.06	9	5,203.99	9		9		9		9		9		9	
1/4	4,165.45	1/4	4,527.75	1/4	4,872.06	1/4	5,211.14	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,173.16	1/2	4,535.09	1/2	4,879.05	1/2	5,218.29	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,180.87	3/4	4,542.43	3/4	4,886.05	3/4	5,225.44	3/4		3/4		3/4		3/4		3/4		3/4	
10	4,188.58	10	4,549.78	10	4,893.05	10	5,232.59	10		10		10		10		10		10	
1/4	4,196.26	1/4	4,557.09	1/4	4,899.92	1/4	5,237.72	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,203.94	1/2	4,564.40	1/2	4,906.79	1/2	5,242.86	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,211.62	3/4	4,571.72	3/4	4,913.65	3/4	5,247.99	3/4		3/4		3/4		3/4		3/4		3/4	
11	4,219.30	11	4,579.03	11	4,920.52	11	5,253.13	11		11		11		11		11		11	
1/4	4,226.96	1/4	4,586.31	1/4	4,927.06	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,234.61	1/2	4,593.59	1/2	4,933.59	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,242.26	3/4	4,600.87	3/4	4,940.13	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/15/2015 CL
CALCULATED: 05/15/2015 CL
PRINTED: 05/15/2015 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2015

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



BARGE "CTCo 357B"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-11"

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	3,886.92	0	4,263.43	0	4,622.93	0	4,962.65	0		0		0		0		0		0	
1/4	3,894.93	1/4	4,271.09	1/4	4,630.20	1/4	4,969.18	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,902.93	1/2	4,278.74	1/2	4,637.48	1/2	4,975.72	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,910.94	3/4	4,286.39	3/4	4,644.75	3/4	4,982.25	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,918.95	1	4,294.05	1	4,652.02	1	4,988.78	1		1		1		1		1		1	
1/4	3,926.92	1/4	4,301.68	1/4	4,659.26	1/4	4,995.28	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,934.90	1/2	4,309.31	1/2	4,666.51	1/2	5,001.78	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,942.87	3/4	4,316.94	3/4	4,673.75	3/4	5,008.29	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,950.85	2	4,324.57	2	4,680.99	2	5,014.79	2		2		2		2		2		2	
1/4	3,958.80	1/4	4,332.18	1/4	4,688.21	1/4	5,021.26	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,966.75	1/2	4,339.78	1/2	4,695.42	1/2	5,027.74	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,974.70	3/4	4,347.38	3/4	4,702.64	3/4	5,034.21	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,982.64	3	4,354.99	3	4,709.85	3	5,040.69	3		3		3		3		3		3	
1/4	3,990.56	1/4	4,362.56	1/4	4,717.04	1/4	5,047.44	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,998.48	1/2	4,370.13	1/2	4,724.22	1/2	5,054.19	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,006.40	3/4	4,377.71	3/4	4,731.41	3/4	5,060.94	3/4		3/4		3/4		3/4		3/4		3/4	
4	4,014.32	4	4,385.28	4	4,738.59	4	5,067.69	4		4		4		4		4		4	
1/4	4,022.21	1/4	4,392.83	1/4	4,745.75	1/4	5,075.33	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,030.10	1/2	4,400.37	1/2	4,752.91	1/2	5,082.98	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,037.99	3/4	4,407.92	3/4	4,760.07	3/4	5,090.62	3/4		3/4		3/4		3/4		3/4		3/4	
5	4,045.88	5	4,415.47	5	4,767.23	5	5,098.27	5		5		5		5		5		5	
1/4	4,053.74	1/4	4,422.98	1/4	4,774.37	1/4	5,105.91	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,061.60	1/2	4,430.50	1/2	4,781.51	1/2	5,113.56	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,069.47	3/4	4,438.02	3/4	4,788.65	3/4	5,121.20	3/4		3/4		3/4		3/4		3/4		3/4	
6	4,077.33	6	4,445.53	6	4,795.78	6	5,128.85	6		6		6		6		6		6	
1/4	4,085.16	1/4	4,453.02	1/4	4,802.89	1/4	5,136.50	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,092.99	1/2	4,460.51	1/2	4,810.00	1/2	5,144.15	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,100.83	3/4	4,468.00	3/4	4,817.11	3/4	5,151.81	3/4		3/4		3/4		3/4		3/4		3/4	
7	4,108.66	7	4,475.49	7	4,824.22	7	5,159.46	7		7		7		7		7		7	
1/4	4,116.46	1/4	4,482.94	1/4	4,831.30	1/4	5,167.14	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,124.26	1/2	4,490.39	1/2	4,838.38	1/2	5,174.82	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,132.06	3/4	4,497.84	3/4	4,845.46	3/4	5,182.50	3/4		3/4		3/4		3/4		3/4		3/4	
8	4,139.87	8	4,505.29	8	4,852.54	8	5,190.18	8		8		8		8		8		8	
1/4	4,147.63	1/4	4,512.69	1/4	4,859.59	1/4	5,197.86	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,155.40	1/2	4,520.08	1/2	4,866.65	1/2	5,205.54	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,163.16	3/4	4,527.48	3/4	4,873.70	3/4	5,213.22	3/4		3/4		3/4		3/4		3/4		3/4	
9	4,170.93	9	4,534.87	9	4,880.75	9	5,220.89	9		9		9		9		9		9	
1/4	4,178.67	1/4	4,542.24	1/4	4,887.77	1/4	5,228.07	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,186.40	1/2	4,549.61	1/2	4,894.79	1/2	5,235.24	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,194.14	3/4	4,556.98	3/4	4,901.82	3/4	5,242.41	3/4		3/4		3/4		3/4		3/4		3/4	
10	4,201.88	10	4,564.35	10	4,908.84	10	5,249.59	10		10		10		10		10		10	
1/4	4,209.59	1/4	4,571.68	1/4	4,915.73	1/4	5,254.74	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,217.30	1/2	4,579.02	1/2	4,922.63	1/2	5,259.89	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,225.00	3/4	4,586.36	3/4	4,929.52	3/4	5,265.04	3/4		3/4		3/4		3/4		3/4		3/4	
11	4,232.71	11	4,593.70	11	4,936.41	11	5,270.20	11		11		11		11		11		11	
1/4	4,240.39	1/4	4,601.01	1/4	4,942.97	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,248.07	1/2	4,608.32	1/2	4,949.53	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,255.75	3/4	4,615.62	3/4	4,956.09	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/15/2015 CL
CALCULATED: 05/15/2015 CL
PRINTED: 05/15/2015 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2015

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