

BARGE "1B 1019"

INCORP BARGE LINES

SHEET NO. 2 OF 2
 TANK NUMBER
1

HULL NO. 1589

COMPART OF **WATSONVILLE**

BARGE SHOULD BE ON EVEN-LEVEL REEL WHEN GARGES ARE TAKEN

8 FEET	9 FEET	10 FEET	11 FEET	12 FEET	13 FEET	14 FEET	FEET	FEET		
87,549 0 87,716 1/2 88,002 3/4 88,278 1 88,434 1 1/2 88,680 2 88,907 2 1/2 89,133 3 89,359 3 1/2 89,585 4 89,811 4 1/2 90,038 5 90,264 5 1/2 90,490 6 90,716 6 1/2 90,942 7 91,169 7 1/2 91,395 8 91,621 8 1/2 91,847 9 92,074 9 1/2 92,300 10 92,526 10 1/2 92,752 11 92,978 11 1/2 93,205 12 93,431 12 1/2 93,657 13 93,883 13 1/2 94,109 14 94,336 14 1/2 94,562 15 94,788 15 1/2 95,014 16 95,241 16 1/2 95,467 17 95,693 17 1/2 95,919 18 96,145 18 1/2 96,372 19 96,598 19 1/2 96,824 20 97,050 20 1/2 97,276 21 97,503 21 1/2 97,729 22 97,955 22 1/2 98,181 23	98,407 0 98,634 1/2 98,860 1 99,086 1 1/2 99,312 2 99,539 2 1/2 99,765 3 99,991 3 1/2 100,217 4 100,443 4 1/2 100,670 5 100,896 5 1/2 101,122 6 101,348 6 1/2 101,574 7 101,801 7 1/2 102,027 8 102,253 8 1/2 102,479 9 102,705 9 1/2 102,932 10 103,158 10 1/2 103,384 11 103,610 11 1/2 103,837 12 104,063 12 1/2 104,289 13 104,515 13 1/2 104,741 14 104,966 14 1/2 105,194 15 105,420 15 1/2 105,646 16 105,872 16 1/2 106,099 17 106,325 17 1/2 106,551 18 106,777 18 1/2 107,004 19 107,230 19 1/2 107,456 20 107,682 20 1/2 107,908 21 108,135 21 1/2 108,361 22 108,587 22 1/2 108,813 23 109,040	109,266 1/2 109,492 1 109,691 1 1/2 109,890 2 110,089 2 1/2 110,288 3 110,487 3 1/2 110,686 4 110,885 4 1/2 111,084 5 111,282 5 1/2 111,481 6 111,680 6 1/2 111,879 7 112,078 7 1/2 112,277 8 112,476 8 1/2 112,675 9 112,874 9 1/2 113,073 10 113,272 10 1/2 113,470 11 113,669 11 1/2 113,868 12 114,067 12 1/2 114,266 13 114,465 13 1/2 114,664 14 114,863 14 1/2 115,062 15 115,261 15 1/2 115,460 16 115,659 16 1/2 115,857 17 116,056 17 1/2 116,255 18 116,454 18 1/2 116,653 19 116,852 19 1/2 117,051 20 117,250 20 1/2 117,449 21 117,648 21 1/2 117,847 22 118,046 22 1/2 118,244 23 118,443	118,642 1/2 118,841 1 119,040 1 1/2 119,239 2 119,438 2 1/2 119,637 3 119,835 3 1/2 120,034 4 120,233 4 1/2 120,432 5 120,631 5 1/2 120,830 6 121,029 6 1/2 121,228 7 121,427 7 1/2 121,626 8 121,825 8 1/2 122,024 9 122,222 9 1/2 122,421 10 122,620 10 1/2 122,819 11 123,018 11 1/2 123,217 12 123,416 12 1/2 123,615 13 123,814 13 1/2 124,013 14 124,211 14 1/2 124,410 15 124,609 15 1/2 124,808 16 125,007 16 1/2 125,206 17 125,405 17 1/2 125,604 18 125,803 18 1/2 126,002 19 126,201 19 1/2 126,400 20 126,598 20 1/2 126,797 21 126,996 21 1/2 127,195 22 127,394 22 1/2 127,593 23 127,792	127,991 1/2 128,190 1 128,389 1 1/2 128,588 2 128,787 2 1/2 128,986 3 129,185 3 1/2 129,384 4 129,583 4 1/2 129,782 5 129,981 5 1/2 130,180 6 130,379 6 1/2 130,578 7 130,777 7 1/2 130,976 8 131,175 8 1/2 131,374 9 131,573 9 1/2 131,772 10 131,971 10 1/2 132,170 11 132,369 11 1/2 132,568 12 132,767 12 1/2 132,966 13 133,165 13 1/2 133,364 14 133,563 14 1/2 133,762 15 133,961 15 1/2 134,160 16 134,359 16 1/2 134,558 17 134,757 17 1/2 134,956 18 135,155 18 1/2 135,354 19 135,553 19 1/2 135,752 20 135,951 20 1/2 136,150 21 136,349 21 1/2 136,548 22 136,747 22 1/2 136,946 23 137,145	137,344 1/2 137,543 1 137,742 1 1/2 137,941 2 138,140 2 1/2 138,339 3 138,538 3 1/2 138,737 4 138,936 4 1/2 139,135 5 139,334 5 1/2 139,533 6 139,732 6 1/2 139,931 7 140,130 7 1/2 140,329 8 140,528 8 1/2 140,727 9 140,926 9 1/2 141,125 10 141,324 10 1/2 141,523 11 141,722 11 1/2 141,921 12 142,120 12 1/2 142,319 13 142,518 13 1/2 142,717 14 142,916 14 1/2 143,115 15 143,314 15 1/2 143,513 16 143,712 16 1/2 143,911 17 144,110 17 1/2 144,309 18 144,508 18 1/2 144,707 19 144,906 19 1/2 145,105 20 145,304 20 1/2 145,503 21 145,702 21 1/2 145,901 22 146,100 22 1/2 146,299	146,498 1/2 146,697 1 146,896 1 1/2 147,095 2 147,294 2 1/2 147,493 3 147,692 3 1/2 147,891 4 148,090 4 1/2 148,289 5 148,488 5 1/2 148,687 6 148,886 6 1/2 149,085 7 149,284 7 1/2 149,483 8 149,682 8 1/2 149,881 9 150,080 9 1/2 150,279 10 150,478 10 1/2 150,677 11 150,876 11 1/2 151,075 12 151,274 12 1/2 151,473 13 151,672 13 1/2 151,871 14 152,070 14 1/2 152,269 15 152,468 15 1/2 152,667 16 152,866 16 1/2 153,065 17 153,264 17 1/2 153,463 18 153,662 18 1/2 153,861 19 154,060 19 1/2 154,259 20 154,458 20 1/2 154,657 21 154,856 21 1/2 155,055 22 155,254 22 1/2 155,453 23 155,652	155,851 1/2 156,050 1 156,249 1 1/2 156,448 2 156,647 2 1/2 156,846 3 157,045 3 1/2 157,244 4 157,443 4 1/2 157,642 5 157,841 5 1/2 158,040 6 158,239 6 1/2 158,438 7 158,637 7 1/2 158,836 8 159,035 8 1/2 159,234 9 159,433 9 1/2 159,632 10 159,831 10 1/2 160,030 11 160,229 11 1/2 160,428 12 160,627 12 1/2 160,826 13 161,025 13 1/2 161,224 14 161,423 14 1/2 161,622 15 161,821 15 1/2 162,020 16 162,219 16 1/2 162,418 17 162,617 17 1/2 162,816 18 163,015 18 1/2 163,214 19 163,413 19 1/2 163,612 20 163,811 20 1/2 164,010 21 164,209 21 1/2 164,408 22 164,607 22 1/2 164,806 23 165,005	165,204 1/2 165,403 1 165,602 1 1/2 165,801 2 166,000 2 1/2 166,199 3 166,398 3 1/2 166,597 4 166,796 4 1/2 166,995 5 167,194 5 1/2 167,393 6 167,592 6 1/2 167,791 7 167,990 7 1/2 168,189 8 168,388 8 1/2 168,587 9 168,786 9 1/2 168,985 10 169,184 10 1/2 169,383 11 169,582 11 1/2 169,781 12 169,980 12 1/2 170,179 13 170,378 13 1/2 170,577 14 170,776 14 1/2 170,975 15 171,174 15 1/2 171,373 16 171,572 16 1/2 171,771 17 171,970 17 1/2 172,169 18 172,368 18 1/2 172,567 19 172,766 19 1/2 172,965 20 173,164 20 1/2 173,363 21 173,562 21 1/2 173,761 22 173,960 22 1/2 174,159 23 174,358	174,557 1/2 174,756 1 174,955 1 1/2 175,154 2 175,353 2 1/2 175,552 3 175,751 3 1/2 175,950 4 176,149 4 1/2 176,348 5 176,547 5 1/2 176,746 6 176,945 6 1/2 177,144 7 177,343 7 1/2 177,542 8 177,741 8 1/2 177,940 9 178,139 9 1/2 178,338 10 178,537 10 1/2 178,736 11 178,935 11 1/2 179,134 12 179,333 12 1/2 179,532 13 179,731 13 1/2 179,930 14 180,129 14 1/2 180,328 15 180,527 15 1/2 180,726 16 180,925 16 1/2 181,124 17 181,323 17 1/2 181,522 18 181,721 18 1/2 181,920 19 182,119 19 1/2 182,318 20 182,517 20 1/2 182,716 21 182,915 21 1/2 183,114 22 183,313 22 1/2 183,512 23 183,711	183,910 1/2 184,109 1 184,308 1 1/2 184,507 2 184,706 2 1/2 184,905 3 185,104 3 1/2 185,303 4 185,502 4 1/2 185,701 5 185,900 5 1/2 186,100 6 186,299 6 1/2 186,498 7 186,697 7 1/2 186,896 8 187,095 8 1/2 187,294 9 187,493 9 1/2 187,692 10 187,891 10 1/2 188,090 11 188,289 11 1/2 188,488 12 188,687 12 1/2 188,886 13 189,085 13 1/2 189,284 14 189,483 14 1/2 189,682 15 189,881 15 1/2 190,080 16 190,279 16 1/2 190,478 17 190,677 17 1/2 190,876 18 191,075 18 1/2 191,274 19 191,473 19 1/2 191,672 20 191,871 20 1/2 192,070 21 192,269 21 1/2 192,468 22 192,667 22 1/2 192,866 23 193,065

CAPACITY IN U.S. GALLONS

CARGO HEIGHT: 14'-11" (TO TOP OF BALL VALVE WATCH)

STAMP NO. 4122192

CHAS. MARTIN CORPORATION

BARGE "1B 1019"

INCORPORATED

HULL NO. 1589

COMPANY OF REGISTERED DESIGNERS

RANGE SHOULD BE ON EVEN LEVEL, HEAD, WHICH GAUGES ARE TAKEN

IN.	0 FEET	1 FEET	2 FEET	3 FEET	4 FEET	5 FEET	6 FEET	7 FEET	FEET
0	267	11,199	22,129	33,018	43,950	54,881	65,813	76,744	CONTINUED ON SHEET NO. 2
1/4	495	11,426	22,396	33,246	44,177	55,109	66,040	76,972	
1/2	725	11,654	22,583	33,474	44,405	55,337	66,268	77,199	
3/4	950	11,882	22,810	33,701	44,633	55,564	66,496	77,427	
1	1,176	12,109	23,036	33,929	44,861	55,792	66,723	77,655	
1 1/4	1,406	12,337	23,263	34,157	45,088	56,020	66,951	77,883	
1 1/2	1,633	12,565	23,490	34,385	45,316	56,248	67,179	78,110	
1 3/4	1,861	12,793	23,717	34,612	45,544	56,476	67,407	78,338	
2	2,089	13,020	23,944	34,840	45,772	56,703	67,634	78,566	
2 1/4	2,317	13,248	24,171	35,068	45,999	56,931	67,862	78,794	
2 1/2	2,544	13,476	24,402	35,296	46,227	57,158	68,090	79,021	
2 3/4	2,772	13,704	24,624	35,523	46,455	57,386	68,318	79,249	
3	3,000	13,931	24,851	35,751	46,682	57,614	68,545	79,477	
3 1/4	3,228	14,159	25,078	35,979	46,910	57,842	68,773	79,705	
3 1/2	3,455	14,387	25,305	36,206	47,138	58,069	69,001	79,932	
3 3/4	3,683	14,615	25,532	36,434	47,366	58,297	69,229	80,160	
4	3,911	14,842	25,758	36,662	47,593	58,525	69,456	80,388	
4 1/4	4,139	15,070	25,985	36,890	47,821	58,753	69,684	80,616	
4 1/2	4,366	15,298	26,212	37,117	48,049	59,000	69,912	80,843	
4 3/4	4,594	15,526	26,439	37,345	48,277	59,228	70,140	81,071	
5	4,822	15,753	26,666	37,573	48,504	59,456	70,367	81,299	
5 1/4	5,050	15,981	26,893	37,801	48,732	59,684	70,595	81,527	
5 1/2	5,277	16,209	27,119	38,028	48,960	59,911	70,823	81,754	
5 3/4	5,505	16,437	27,346	38,256	49,188	60,139	71,051	81,982	
6	5,733	16,664	27,573	38,484	49,415	60,367	71,278	82,210	
6 1/4	5,961	16,892	27,800	38,712	49,643	60,595	71,506	82,437	
6 1/2	6,188	17,120	28,027	38,939	49,871	60,822	71,734	82,665	
6 3/4	6,416	17,347	28,254	39,167	50,099	61,050	71,961	82,893	
7	6,644	17,575	28,481	39,395	50,326	61,278	72,189	83,121	
7 1/4	6,871	17,803	28,707	39,623	50,554	61,505	72,417	83,348	
7 1/2	7,099	18,031	28,934	39,850	50,782	61,733	72,645	83,576	
7 3/4	7,327	18,258	29,161	40,078	51,010	61,961	72,872	83,804	
8	7,555	18,486	29,388	40,306	51,237	62,189	73,100	84,032	
8 1/4	7,782	18,714	29,615	40,534	51,465	62,416	73,328	84,259	
8 1/2	8,010	18,942	29,842	40,761	51,693	62,644	73,556	84,487	
8 3/4	8,238	19,169	30,069	40,989	51,920	62,872	73,783	84,715	
9	8,466	19,397	30,297	41,217	52,148	63,100	74,011	84,943	
9 1/4	8,693	19,625	30,522	41,444	52,376	63,328	74,239	85,170	
9 1/2	8,921	19,853	30,749	41,672	52,604	63,555	74,467	85,398	
9 3/4	9,149	20,080	30,976	41,900	52,831	63,783	74,694	85,626	
10	9,377	20,308	31,203	42,128	53,059	64,011	74,922	85,854	
10 1/4	9,604	20,536	31,429	42,355	53,287	64,238	75,150	86,081	
10 1/2	9,832	20,764	31,656	42,583	53,515	64,466	75,378	86,309	
10 3/4	10,060	20,991	31,883	42,811	53,742	64,693	75,606	86,537	
11	10,288	21,219	32,110	43,039	53,970	64,921	75,833	86,765	
11 1/4	10,515	21,447	32,337	43,266	54,198	65,148	76,061	86,992	
11 1/2	10,743	21,675	32,564	43,494	54,426	65,376	76,289	87,220	
11 3/4	10,971	21,902	32,790	43,722	54,653	65,604	76,516	87,448	

CAPACITY IN: U.S. GALLONS

*CAPACITY BELOW STRIKE POINT.

GAUGE HEIGHT: 14'-11 3/4" (10 TOP OF BALL VALVE MATCH)

SIRASPOD: 4/27/92

WE CERTIFY ALL MEASUREMENTS AND COMPUTATIONS ARE IN ACCORDANCE WITH APPLICABLE API STANDARDS AND ARE TRUE AND CORRECT TO THE BEST OF OUR KNOWLEDGE.

CHAS. MARTIN CORPORATION

BARGE "1B 1019"

INCORP BARGE LINES

REMARKS OR SPECIAL INSTRUCTIONS

BARGE SHOULD BE ON EVEN-LEVEL REEL WHEN GAUGES ARE TAKEN

HULL NO. 1569

IN.	8 FEET	9 FEET	10 FEET	11 FEET	12 FEET	13 FEET	14 FEET	FEET	FEET
0	87,675	98,607	109,538	120,470	131,401	142,333	150,029		
1/4	87,903	98,835	109,766	120,696	131,629	142,561	150,030		
1/2	88,131	99,062	110,994	120,929	131,857	142,788	150,051		
3/4	88,359	99,290	110,222	121,153	132,085	143,016	150,063		
1	88,586	99,518	110,449	121,381	132,312	143,244	150,076		
1 1/4	88,814	99,746	110,677	121,609	132,540	143,472			
1 1/2	89,042	99,973	110,905	121,836	132,768	143,699			
1 3/4	89,270	100,201	111,133	122,064	132,996	143,927			
2	89,497	100,429	111,360	122,292	133,225	144,155			
2 1/4	89,725	100,657	111,588	122,520	133,451	144,382			
2 1/2	89,953	100,884	111,816	122,747	133,679	144,610			
2 3/4	90,181	101,112	112,044	122,975	133,907	144,838			
3	90,408	101,340	112,271	123,203	134,134	145,066			
3 1/4	90,636	101,568	112,499	123,431	134,362	145,293			
3 1/2	90,864	101,795	112,727	123,658	134,590	145,521			
3 3/4	91,092	102,023	112,955	123,886	134,817	145,749			
4	91,319	102,251	113,182	124,114	135,045	145,977			
4 1/4	91,547	102,479	113,410	124,341	135,271	146,202			
4 1/2	91,775	102,706	113,638	124,569	135,501	146,427			
4 3/4	92,003	102,934	113,865	124,797	135,729	146,652			
5	92,230	103,162	114,093	125,025	135,956	146,877			
5 1/4	92,458	103,389	114,321	125,252	136,184	147,102			
5 1/2	92,686	103,617	114,549	125,480	136,412	147,327			
5 3/4	92,913	103,845	114,776	125,708	136,639	147,552			
6	93,141	104,073	115,004	125,936	136,867	147,777			
6 1/4	93,369	104,300	115,232	126,165	137,095	148,002			
6 1/2	93,597	104,528	115,460	126,393	137,323	148,227			
6 3/4	93,824	104,756	115,687	126,621	137,551	148,452			
7	94,052	104,984	115,915	126,849	137,778	148,677			
7 1/4	94,280	105,211	116,143	127,077	138,006	148,902			
7 1/2	94,508	105,439	116,371	127,302	138,234	149,127			
7 3/4	94,735	105,667	116,598	127,530	138,461	149,352			
8	94,963	105,895	116,826	127,758	138,689	149,577			
8 1/4	95,191	106,122	117,054	127,985	138,917	149,802			
8 1/2	95,419	106,350	117,282	128,213	139,144	149,827			
8 3/4	95,646	106,578	117,509	128,441	139,372	149,852			
9	95,874	106,806	117,737	128,669	139,600	149,877			
9 1/4	96,102	107,033	117,965	128,896	139,828	149,902			
9 1/2	96,330	107,261	118,193	129,124	140,055	149,927			
9 3/4	96,557	107,489	118,420	129,352	140,283	149,952			
10	96,785	107,717	118,648	129,579	140,511	149,977			
10 1/4	97,013	107,944	118,876	129,807	140,739	149,999			
10 1/2	97,241	108,172	119,105	130,035	140,966	149,999			
10 3/4	97,468	108,400	119,331	130,263	141,194	149,999			
11	97,696	108,627	119,559	130,490	141,422	149,999			
11 1/4	97,924	108,855	119,787	130,718	141,650	149,999			
11 1/2	98,151	109,083	120,014	130,946	141,877	149,999			
11 3/4	98,379	109,311	120,242	131,174	142,105	149,999			

CAPACITY IN: U.S. GALLONS

GANGE WEIGHT: 14'-11 3/4" (10 TOP OF BALL VALVE MATCH)

STRONG: 4/27/52

CHAS. MARTIN CORPORATION

BARGE "IB 1019"

INGRAM BARGE LINES

SHEET NO. 1 OF 2
TANK NUMBER:
3

PARCE SHOULD BE ON EVEN-LEVEL REEL WHEN GAUGES ARE TAKEN

HULL NO. 1589

0 FEET		1 FEET		2 FEET		3 FEET		4 FEET		5 FEET		6 FEET		7 FEET		FEET	
IN.	0	IN.	0	IN.	0	IN.	0	IN.	0	IN.	0	IN.	0	IN.	0	IN.	CONTINUED ON SHEET NO. 2
1/2	1,541	0	13,591	0	29,561	0	37,571	0	49,591	0	61,591	0	73,602	0	85,612	0	
1/4	1,791	1/4	13,801	1/4	29,811	1/4	37,821	1/4	49,832	1/4	61,842	1/4	73,852	1/4	85,862	1/4	
3/8	2,041	3/8	14,051	3/8	29,861	3/8	38,072	3/8	50,082	3/8	62,092	3/8	74,102	3/8	86,112	3/8	
1/2	2,291	1/2	14,301	1/2	29,911	1/2	38,122	1/2	50,132	1/2	62,142	1/2	74,152	1/2	86,162	1/2	
3/4	2,541	3/4	14,552	3/4	29,962	3/4	38,172	3/4	50,182	3/4	62,192	3/4	74,202	3/4	86,212	3/4	
1	2,792	1	14,802	1	30,012	1	38,222	1	50,232	1	62,242	1	74,252	1	86,262	1	
1 1/4	3,042	1 1/4	15,052	1 1/4	30,062	1 1/4	38,272	1 1/4	50,282	1 1/4	62,292	1 1/4	74,302	1 1/4	86,312	1 1/4	
1 1/2	3,292	1 1/2	15,302	1 1/2	30,112	1 1/2	38,322	1 1/2	50,332	1 1/2	62,342	1 1/2	74,352	1 1/2	86,362	1 1/2	
1 3/4	3,542	1 3/4	15,552	1 3/4	30,162	1 3/4	38,372	1 3/4	50,382	1 3/4	62,392	1 3/4	74,402	1 3/4	86,412	1 3/4	
2	3,792	2	15,803	2	30,213	2	38,423	2	50,433	2	62,443	2	74,453	2	86,463	2	
2 1/4	4,043	2 1/4	16,053	2 1/4	30,263	2 1/4	38,473	2 1/4	50,483	2 1/4	62,493	2 1/4	74,503	2 1/4	86,513	2 1/4	
2 1/2	4,293	2 1/2	16,303	2 1/2	30,313	2 1/2	38,523	2 1/2	50,533	2 1/2	62,543	2 1/2	74,553	2 1/2	86,563	2 1/2	
2 3/4	4,543	2 3/4	16,553	2 3/4	30,363	2 3/4	38,573	2 3/4	50,583	2 3/4	62,593	2 3/4	74,603	2 3/4	86,613	2 3/4	
3	4,793	3	16,804	3	30,414	3	38,624	3	50,634	3	62,644	3	74,654	3	86,664	3	
3 1/4	5,044	3 1/4	17,054	3 1/4	30,464	3 1/4	38,674	3 1/4	50,684	3 1/4	62,694	3 1/4	74,704	3 1/4	86,714	3 1/4	
3 1/2	5,294	3 1/2	17,304	3 1/2	30,514	3 1/2	38,724	3 1/2	50,734	3 1/2	62,744	3 1/2	74,754	3 1/2	86,764	3 1/2	
3 3/4	5,544	3 3/4	17,554	3 3/4	30,564	3 3/4	38,774	3 3/4	50,784	3 3/4	62,794	3 3/4	74,804	3 3/4	86,814	3 3/4	
4	5,794	4	17,804	4	30,614	4	38,824	4	50,834	4	62,844	4	74,854	4	86,864	4	
4 1/4	6,044	4 1/4	18,054	4 1/4	30,664	4 1/4	38,874	4 1/4	50,884	4 1/4	62,894	4 1/4	74,904	4 1/4	86,914	4 1/4	
4 1/2	6,294	4 1/2	18,305	4 1/2	30,715	4 1/2	38,925	4 1/2	50,935	4 1/2	62,945	4 1/2	74,955	4 1/2	86,965	4 1/2	
4 3/4	6,545	4 3/4	18,555	4 3/4	30,765	4 3/4	38,975	4 3/4	50,985	4 3/4	62,995	4 3/4	74,1005	4 3/4	86,1015	4 3/4	
5	6,795	5	18,805	5	30,815	5	39,026	5	51,036	5	63,046	5	75,056	5	87,066	5	
5 1/4	7,045	5 1/4	19,055	5 1/4	31,066	5 1/4	39,076	5 1/4	51,086	5 1/4	63,096	5 1/4	75,106	5 1/4	87,116	5 1/4	
5 1/2	7,295	5 1/2	19,306	5 1/2	31,316	5 1/2	39,126	5 1/2	51,136	5 1/2	63,146	5 1/2	75,156	5 1/2	87,166	5 1/2	
5 3/4	7,546	5 3/4	19,556	5 3/4	31,566	5 3/4	39,176	5 3/4	51,186	5 3/4	63,196	5 3/4	75,206	5 3/4	87,216	5 3/4	
6	7,796	6	19,806	6	31,816	6	39,226	6	51,236	6	63,246	6	75,256	6	87,266	6	
6 1/4	8,046	6 1/4	20,056	6 1/4	32,066	6 1/4	39,276	6 1/4	51,286	6 1/4	63,296	6 1/4	75,306	6 1/4	87,316	6 1/4	
6 1/2	8,296	6 1/2	20,306	6 1/2	32,317	6 1/2	39,327	6 1/2	51,337	6 1/2	63,347	6 1/2	75,357	6 1/2	87,367	6 1/2	
6 3/4	8,547	6 3/4	20,557	6 3/4	32,567	6 3/4	39,377	6 3/4	51,387	6 3/4	63,397	6 3/4	75,407	6 3/4	87,407	6 3/4	
7	8,797	7	20,807	7	32,817	7	39,427	7	51,437	7	63,447	7	75,457	7	87,457	7	
7 1/4	9,047	7 1/4	21,057	7 1/4	33,067	7 1/4	39,477	7 1/4	51,487	7 1/4	63,497	7 1/4	75,507	7 1/4	87,507	7 1/4	
7 1/2	9,297	7 1/2	21,307	7 1/2	33,318	7 1/2	39,528	7 1/2	51,538	7 1/2	63,548	7 1/2	75,558	7 1/2	87,558	7 1/2	
7 3/4	9,547	7 3/4	21,558	7 3/4	33,568	7 3/4	39,578	7 3/4	51,588	7 3/4	63,598	7 3/4	75,608	7 3/4	87,608	7 3/4	
8	9,798	8	21,808	8	33,818	8	39,628	8	51,638	8	63,648	8	75,658	8	87,658	8	
8 1/4	10,048	8 1/4	22,058	8 1/4	34,068	8 1/4	39,678	8 1/4	51,688	8 1/4	63,698	8 1/4	75,708	8 1/4	87,708	8 1/4	
8 1/2	10,298	8 1/2	22,308	8 1/2	34,318	8 1/2	39,728	8 1/2	51,738	8 1/2	63,748	8 1/2	75,758	8 1/2	87,758	8 1/2	
8 3/4	10,548	8 3/4	22,558	8 3/4	34,568	8 3/4	39,778	8 3/4	51,788	8 3/4	63,798	8 3/4	75,808	8 3/4	87,808	8 3/4	
9	10,798	9	22,808	9	34,818	9	39,828	9	51,838	9	63,848	9	75,858	9	87,858	9	
9 1/4	11,049	9 1/4	23,058	9 1/4	35,068	9 1/4	39,878	9 1/4	51,888	9 1/4	63,898	9 1/4	75,908	9 1/4	87,908	9 1/4	
9 1/2	11,299	9 1/2	23,308	9 1/2	35,318	9 1/2	39,928	9 1/2	51,938	9 1/2	63,948	9 1/2	75,958	9 1/2	87,958	9 1/2	
9 3/4	11,549	9 3/4	23,558	9 3/4	35,568	9 3/4	39,978	9 3/4	51,988	9 3/4	63,998	9 3/4	75,1008	9 3/4	87,1018	9 3/4	
10	11,799	10	23,808	10	35,818	10	40,028	10	52,038	10	64,048	10	76,058	10	88,068	10	
10 1/4	12,049	10 1/4	24,058	10 1/4	36,068	10 1/4	40,078	10 1/4	52,088	10 1/4	64,098	10 1/4	76,108	10 1/4	88,118	10 1/4	
10 1/2	12,300	10 1/2	24,308	10 1/2	36,318	10 1/2	40,128	10 1/2	52,138	10 1/2	64,148	10 1/2	76,158	10 1/2	88,168	10 1/2	
10 3/4	12,550	10 3/4	24,558	10 3/4	36,568	10 3/4	40,178	10 3/4	52,188	10 3/4	64,198	10 3/4	76,208	10 3/4	88,218	10 3/4	
11	12,800	11	24,808	11	36,818	11	40,228	11	52,238	11	64,248	11	76,258	11	88,268	11	
11 1/4	13,050	11 1/4	25,058	11 1/4	37,068	11 1/4	40,278	11 1/4	52,288	11 1/4	64,298	11 1/4	76,308	11 1/4	88,318	11 1/4	
11 1/2	13,300	11 1/2	25,308	11 1/2	37,318	11 1/2	40,328	11 1/2	52,338	11 1/2	64,348	11 1/2	76,358	11 1/2	88,368	11 1/2	
11 3/4	13,550	11 3/4	25,558	11 3/4	37,568	11 3/4	40,378	11 3/4	52,388	11 3/4	64,398	11 3/4	76,408	11 3/4	88,418	11 3/4	
12	13,800	12	25,808	12	37,818	12	40,428	12	52,438	12	64,448	12	76,458	12	88,468	12	
12 1/4	14,050	12 1/4	26,058	12 1/4	38,068	12 1/4	40,478	12 1/4	52,488	12 1/4	64,498	12 1/4	76,508	12 1/4	88,518	12 1/4	
12 1/2	14,300	12 1/2	26,308	12 1/2	38,318	12 1/2	40,528	12 1/2	52,538	12 1/2	64,548	12 1/2	76,558	12 1/2	88,568	12 1/2	
12 3/4	14,550	12 3/4	26,558	12 3/4	38,568	12 3/4	40,578	12 3/4	52,588	12 3/4	64,598	12 3/4	76,608	12 3/4	88,618	12 3/4	
13	14,800	13	26,808	13	38,818	13	40,628	13	52,638	13	64,648	13	76,658	13	88,668	13	
13 1/4	15,050	13 1/4	27,058	13 1/4	39,068	13 1/4	40,678	13 1/4	52,688	13 1/4	64,698	13 1/4	76,708	13 1/4	88,718	13 1/4	
13 1/2	15,300	13 1/2	27,308	13 1/2	39,318	13 1/2	40,728	13 1/2	52,738	13 1/2	64,748	13 1/2	76,758	13 1/2	88,768	13 1/2	
13 3/4	15,550	13 3/4	27,558	13 3/4	39,568	13 3/4	40,778	13 3/4	52,788	13 3/4	64,798	13 3/4	76,808	13 3/4	88,818	13 3/4	
14	15,800	14	27,808	14	39,818	14	40,828	14	52,838	14	64,848	14	76,858	14	88,868	14	
14 1/4	16,050	14 1/4	28,058	14 1/4	40,068	14 1/4	40,878	14 1/4	52,888	14 1/4	64,898	14 1/4	76,908	14 1/4	88,918	14 1/4	
14 1/2	16,300	14 1/2	28,308	14 1/2	40,318												

BARGE "IB 1019"

INGRAM BARGE LINES

BARGE SHOULD BE ON EYER-LEVEL KEEL WHEN BARGES ARE TAKEN

HULL NO. 1509

IN.	8 FEET	9 FEET	10 FEET	11 FEET	12 FEET	13 FEET	FEET	FEET	IN.
0	97,627	0	109,652	0	135,540	0	149,043	0	156,132
1/4	97,872	1/4	109,882	1/4	135,791	1/4	149,276	1/4	156,361
1/2	98,127	1/2	110,135	1/2	136,034	1/2	149,510	1/2	156,590
3/4	98,372	3/4	110,383	3/4	136,276	3/4	149,744	3/4	156,819
1	98,623	1	110,633	1	136,519	1	149,977	1	157,048
1 1/4	98,873	1 1/4	110,883	1 1/4	136,762	1 1/4	150,211	1 1/4	157,277
1 1/2	99,123	1 1/2	111,135	1 1/2	137,004	1 1/2	150,445	1 1/2	157,506
1 3/4	99,372	1 3/4	111,384	1 3/4	137,242	1 3/4	150,678	1 3/4	157,735
2	99,624	2	111,634	2	137,490	2	150,912	2	157,964
2 1/4	99,874	2 1/4	111,884	2 1/4	137,732	2 1/4	151,145	2 1/4	158,193
2 1/2	100,124	2 1/2	112,134	2 1/2	137,975	2 1/2	151,379	2 1/2	158,423
2 3/4	100,374	2 3/4	112,382	2 3/4	138,218	2 3/4	151,613	2 3/4	158,652
3	100,625	3	112,635	3	138,460	3	151,846	3	158,880
3 1/4	100,875	3 1/4	112,885	3 1/4	138,705	3 1/4	152,080	3 1/4	159,104
3 1/2	101,125	3 1/2	113,135	3 1/2	138,946	3 1/2	152,314	3 1/2	159,301
3 3/4	101,375	3 3/4	113,385	3 3/4	139,188	3 3/4	152,547	3 3/4	159,517
4	101,625	4	113,636	4	139,428	4	152,778	4	159,708
4 1/4	101,876	4 1/4	113,886	4 1/4	139,668	4 1/4	153,008	4 1/4	159,899
4 1/2	102,126	4 1/2	114,136	4 1/2	139,907	4 1/2	153,239	4 1/2	160,090
4 3/4	102,376	4 3/4	114,386	4 3/4	140,147	4 3/4	153,470	4 3/4	160,281
5	102,626	5	114,636	5	140,387	5	153,700	5	160,446
5 1/4	102,876	5 1/4	114,887	5 1/4	141,025	5 1/4	153,931	5 1/4	160,612
5 1/2	103,127	5 1/2	115,137	5 1/2	141,265	5 1/2	154,161	5 1/2	160,777
5 3/4	103,377	5 3/4	115,387	5 3/4	141,506	5 3/4	154,392	5 3/4	160,943
6	103,627	6	115,637	6	141,745	6	154,623	6	161,085
6 1/4	103,877	6 1/4	115,887	6 1/4	141,985	6 1/4	154,854	6 1/4	161,223
6 1/2	104,128	6 1/2	116,138	6 1/2	142,225	6 1/2	155,084	6 1/2	161,363
6 3/4	104,378	6 3/4	116,388	6 3/4	142,464	6 3/4	155,314	6 3/4	161,503
7	104,628	7	116,638	7	142,704	7	155,545	7	161,617
7 1/4	104,878	7 1/4	116,888	7 1/4	142,944	7 1/4	155,775	7 1/4	161,732
7 1/2	105,128	7 1/2	117,139	7 1/2	143,184	7 1/2	156,006	7 1/2	161,846
7 3/4	105,379	7 3/4	117,389	7 3/4	143,423	7 3/4	156,237	7 3/4	161,961
8	105,629	8	117,639	8	143,663	8	156,466	8	162,076
8 1/4	105,879	8 1/4	117,889	8 1/4	143,903	8 1/4	156,696	8 1/4	162,190
8 1/2	106,129	8 1/2	118,139	8 1/2	144,143	8 1/2	156,924	8 1/2	162,228
8 3/4	106,379	8 3/4	118,389	8 3/4	144,383	8 3/4	157,153	8 3/4	162,312
9	106,630	9	118,640	9	144,623	9	157,382	9	162,391
9 1/4	106,880	9 1/4	118,890	9 1/4	144,863	9 1/4	157,611	9 1/4	162,445
9 1/2	107,130	9 1/2	119,140	9 1/2	145,103	9 1/2	157,841	9 1/2	162,500
9 3/4	107,380	9 3/4	119,390	9 3/4	145,343	9 3/4	158,070	9 3/4	162,522
10	107,630	10	119,641	10	145,583	10	158,299	10	162,610
10 1/4	107,881	10 1/4	119,891	10 1/4	145,823	10 1/4	158,528	10 1/4	162,648
10 1/2	108,131	10 1/2	120,141	10 1/2	146,063	10 1/2	158,757	10 1/2	162,686
10 3/4	108,381	10 3/4	120,391	10 3/4	146,303	10 3/4	158,986	10 3/4	162,725
11	108,631	11	120,641	11	146,543	11	159,215	11	162,757
11 1/4	108,882	11 1/4	120,892	11 1/4	146,783	11 1/4	159,444	11 1/4	162,790
11 1/2	109,132	11 1/2	121,142	11 1/2	147,023	11 1/2	159,673	11 1/2	162,765
11 3/4	109,382	11 3/4	121,392	11 3/4	147,263	11 3/4	159,902	11 3/4	162,735

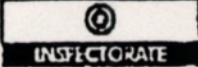
CAPACITY IN U.S. GALLONS

GAUGE HEIGHT: 14'-10 1/4" (TO TOP OF BALL VALVE MATH)

STANDARD: 4/27/92

CHAS. MARTIN CORPORATION

Chas. MARTIN

A
COMPANY OF  INSPECTORATE

BARGE "IB 1019"

INGRAM BARGE LINES

CORRECTION TABLE FOR TRIM AFT.

FOR INNAGE GAUGES ONLY

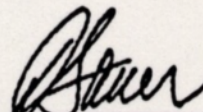
TRIM	TANK NO. 1	TANK NO. 2	TANK NO. 3
0'-6"	(-) 0'-0 1/4"	(-) 0'-0 1/8"	(-) 0'-0 1/8"
1'-0"	(-) 0'-0 3/8"	(-) 0'-0 1/4"	(-) 0'-0 1/4"
1'-6"	(-) 0'-0 5/8"	(-) 0'-0 1/2"	(-) 0'-0 3/8"
2'-0"	(-) 0'-0 7/8"	(-) 0'-0 5/8"	(-) 0'-0 1/2"
2'-6"	(-) 0'-1	(-) 0'-0 3/4"	(-) 0'-0 5/8"
3'-0"	(-) 0'-1 1/4"	(-) 0'-0 7/8"	(-) 0'-0 3/4"
3'-6"	(-) 0'-1 1/2"	(-) 0'-1	(-) 0'-0 7/8"
4'-0"	(-) 0'-1 5/8"	(-) 0'-1 1/8"	(-) 0'-1
4'-6"	(-) 0'-1 7/8"	(-) 0'-1 3/8"	(-) 0'-1 1/8"
5'-0"	(-) 0'-2 1/8"	(-) 0'-1 1/2"	(-) 0'-1 1/4"

NOTE: FOR TRIM FWD., REVERSE SIGNS.

NOTE: IF LIQUID SURFACE TOUCHES TANK BOTTOM OR DECK WHEN GAUGED, TRIM CORRECTIONS ARE NOT ACCURATE.

NOTE: FOR "OUTAGE" GAUGES, REVERSE SIGNS.

CHAS. MARTIN INSPECTION
AND CONTROLS, INC.


BY: D. SAUER

DATE: 4/27/92

BARGE "B 1019"

INCRAN BARGE LINES

SHEET NO. 1 OF 2
 TANK NUMBER
1

BARGE SHOULD BE ON EACH LEVEL REEL WHEN GARGES ARE TAKEN

HULL NO. 1599

0 FEET	1 FEET	2 FEET	3 FEET	4 FEET	5 FEET	6 FEET	7 FEET	FEET
718	11,579	22,456	33,258	44,117	54,975	65,833	76,691	CONTINUED ON
945	11,805	22,661	33,463	44,343	55,201	66,059	76,917	SHEET NO. 2
1,171	12,032	22,887	33,711	44,569	55,427	66,285	77,144	
1,397	12,258	23,112	33,937	44,785	55,653	66,512	77,378	
1,624	12,484	23,337	34,163	45,021	55,880	66,738	77,596	
1,850	12,710	23,563	34,389	45,248	56,106	66,964	77,822	
2,076	12,937	23,788	34,616	45,474	56,332	67,190	78,048	
2,302	13,163	24,014	34,842	45,700	56,558	67,416	78,274	
2,529	13,389	24,239	35,068	45,926	56,784	67,643	78,501	
2,755	13,615	24,464	35,294	46,153	57,011	67,869	78,727	
2,982	13,842	24,690	35,521	46,379	57,237	68,095	78,953	
3,208	14,068	24,915	35,747	46,605	57,463	68,321	79,179	
3,434	14,294	25,141	35,973	46,831	57,689	68,547	79,405	
3,661	14,520	25,366	36,199	47,057	57,916	68,774	79,632	
3,887	14,746	25,592	36,425	47,284	58,142	69,000	79,858	
4,113	14,973	25,817	36,652	47,510	58,368	69,226	80,084	
4,340	15,199	26,042	36,878	47,736	58,594	69,452	80,311	
4,566	15,425	26,268	37,104	47,962	58,820	69,678	80,537	
4,792	15,651	26,493	37,330	48,188	59,047	69,903	80,763	
5,019	15,878	26,719	37,556	48,415	59,273	70,131	80,989	
5,245	16,104	26,944	37,783	48,641	59,499	70,357	81,215	
5,471	16,330	27,170	38,009	48,867	59,725	70,583	81,442	
5,697	16,556	27,395	38,235	49,093	59,951	70,810	81,668	
5,924	16,782	22,620	38,461	49,319	60,178	71,036	81,894	
6,150	17,009	27,846	38,688	49,546	60,404	71,262	82,120	
6,376	17,235	28,071	38,914	49,772	60,630	71,488	82,346	
6,602	17,461	28,297	39,140	49,998	60,856	71,714	82,572	
6,828	17,687	28,522	39,366	50,224	61,082	71,941	82,798	
7,055	17,914	28,748	39,592	50,451	61,309	72,167	83,025	
7,281	18,140	28,973	39,819	50,677	61,535	72,393	83,251	
7,507	18,366	29,198	40,045	50,903	61,761	72,619	83,477	
7,733	18,592	29,424	40,271	51,129	61,987	72,846	83,704	
7,960	18,818	29,649	40,497	51,355	62,214	73,072	83,930	
8,186	19,045	29,875	40,723	51,582	62,440	73,298	84,156	
8,412	19,271	30,100	40,950	51,808	62,666	73,524	84,382	
8,638	19,497	30,326	41,176	52,034	62,892	73,750	84,608	
8,865	19,723	30,551	41,402	52,260	63,118	73,977	84,835	
9,091	19,950	30,776	41,628	52,486	63,345	74,203	85,061	
9,317	20,176	31,002	41,854	52,713	63,571	74,429	85,287	
9,543	20,402	31,227	42,081	52,939	63,797	74,655	85,513	
9,769	20,628	31,453	42,307	53,165	64,023	74,881	85,740	
9,996	20,854	31,678	42,533	53,391	64,249	75,107	85,966	
10,222	21,081	31,904	42,759	53,618	64,476	75,333	86,192	
10,448	21,307	32,129	42,985	53,844	64,702	75,559	86,418	
10,674	21,533	32,354	43,212	54,070	64,928	75,786	86,644	
10,901	21,759	32,580	43,438	54,296	65,154	76,012	86,871	
11,127	21,985	32,806	43,664	54,522	65,381	76,239	87,097	
11,353	22,210	33,032	43,890	54,749	65,607	76,465	87,323	

CAPACITY IN U.S. GALLONS
 CAPACITY BELOW STRIKE POINT.

GARGE HEIGHT: 14'-11" (TO TOP OF BALL VALVE MATCH)

WE CERTIFY ALL MEASUREMENTS AND COMPUTATIONS ARE IN ACCORDANCE WITH APPLICABLE API STANDARDS AND ARE TRUE AND CORRECT TO THE BEST OF OUR KNOWLEDGE.

CHAS. MARTIN CORPORATION