

BARGE "IB 1016"

INGRAM BARGE LINES

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

HULL NO. 1586

IN.	8 FEET	9 FEET	10 FEET	11 FEET	12 FEET	13 FEET	14 FEET	FEET	FEET
0	87,631	90,499	109,567	118,951	128,506	138,064	144,413	0	0
1/4	87,857	90,725	109,594	119,150	128,707	138,263	144,424	0	0
1/2	88,083	90,952	109,793	119,349	128,906	138,462	144,435	1/4	1
3/4	88,310	99,178	109,992	119,549	129,105	138,661		1/2	2
1	88,536	99,404	110,191	119,748	129,304	138,860		3/4	3
1 1/4	88,763	99,631	110,390	119,947	129,503	139,060		1	4
1 1/2	88,989	99,857	110,589	120,146	129,702	139,259		1 1/4	5
1 3/4	89,215	100,084	110,788	120,345	129,901	139,458		1 1/2	6
2	89,442	100,310	110,988	120,544	130,100	139,657		1 3/4	7
2 1/4	89,668	100,537	111,187	120,743	130,299	139,856		2	8
2 1/2	89,895	100,763	111,386	120,942	130,499	140,055		2 1/4	9
2 3/4	90,121	100,989	111,585	121,141	130,698	140,254		2 1/2	10
3	90,348	101,216	111,784	121,340	130,897	140,453		2 3/4	11
3 1/4	90,574	101,442	111,983	121,539	131,096	140,652		3	12
3 1/2	90,800	101,669	112,182	121,739	131,295	140,851		3 1/4	13
3 3/4	91,027	101,895	112,381	121,938	131,494	141,050		3 1/2	14
4	91,253	102,122	112,580	122,137	131,693	141,249		3 3/4	15
4 1/4	91,480	102,348	112,779	122,336	131,892	141,448		4	16
4 1/2	91,706	102,574	112,978	122,535	132,091	141,647		4 1/4	17
4 3/4	91,933	102,801	113,178	122,734	132,290	141,846		4 1/2	18
5	92,159	103,027	113,377	122,933	132,490	142,045		4 3/4	19
5 1/4	92,385	103,254	113,576	123,132	132,689	142,244		5	20
5 1/2	92,612	103,480	113,775	123,331	132,888	142,443		5 1/4	21
5 3/4	92,838	103,706	113,974	123,530	133,087	142,642		5 1/2	22
6	93,065	103,933	114,173	123,729	133,286	142,841		5 3/4	23
6 1/4	93,291	104,159	114,372	123,929	133,485	143,040		6	24
6 1/2	93,517	104,386	114,571	124,128	133,684	143,239		6 1/4	25
6 3/4	93,744	104,612	114,770	124,327	133,883	143,438		6 1/2	26
7	93,970	104,839	114,969	124,526	134,082	143,637		6 3/4	27
7 1/4	94,197	105,065	115,168	124,725	134,281	143,836		7	28
7 1/2	94,423	105,291	115,368	124,924	134,480	144,035		7 1/4	29
7 3/4	94,650	105,518	115,567	125,123	134,679	144,234		7 1/2	30
8	94,876	105,744	115,766	125,322	134,878	144,433		7 3/4	31
8 1/4	95,102	105,971	115,965	125,521	135,077	144,632		8	32
8 1/2	95,329	106,197	116,164	125,720	135,276	144,831		8 1/4	33
8 3/4	95,555	106,424	116,363	125,919	135,475	145,030		8 1/2	34
9	95,782	106,650	116,562	126,118	135,674	145,229		8 3/4	35
9 1/4	96,008	106,876	116,761	126,317	135,873	145,428		9	36
9 1/2	96,235	107,103	116,960	126,516	136,072	145,627		9 1/4	37
9 3/4	96,461	107,329	117,159	126,715	136,271	145,826		9 1/2	38
10	96,687	107,556	117,358	126,914	136,470	146,025		9 3/4	39
10 1/4	96,914	107,782	117,557	127,113	136,669	146,224		10	40
10 1/2	97,140	108,009	117,756	127,312	136,868	146,423		10 1/4	41
10 3/4	97,367	108,235	117,955	127,511	137,067	146,622		10 1/2	42
11	97,593	108,461	118,154	127,710	137,266	146,821		10 3/4	43
11 1/4	97,820	108,688	118,353	127,909	137,465	147,020		11	44
11 1/2	98,046	108,914	118,552	128,108	137,664	147,219		11 1/4	45
11 3/4	98,272	109,141	118,751	128,307	137,863	147,418		11 1/2	46

CAPACITY IN: U.S. GALLONS

GAUGE HEIGHT: 14"-10 3/4" (TO TOP OF BALL VALVE HATCH)

STRAP NO: 1/20/92

CHAS. MARTIN CORPORATION

BARGE "IB 1016"

INGRAM BARGE LINES

SHEET NO. 1 OF 2
TANK NUMBER:
2

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

HULL NO. 1586

IN.	0 FEET	1 FEET	2 FEET	3 FEET	4 FEET	5 FEET	6 FEET	7 FEET	IN.	FEET
0	267	11,197	22,126	33,014	43,944	54,874	65,804	76,735	0	CONTINUED ON
1/4	495	11,425	22,353	33,242	44,172	55,102	66,032	76,962	1/4	SHEET NO. 2
1/2	722	11,653	22,580	33,469	44,400	55,330	66,260	77,190	1/2	
3/4	920	11,880	22,807	33,697	44,627	55,557	66,487	77,417	3/4	
1	1,178	12,108	23,034	33,923	44,853	55,783	66,713	77,643	1	
1 1/4	1,406	12,336	23,260	34,150	45,080	56,010	66,940	77,870	1 1/4	
1 1/2	1,633	12,563	23,487	34,377	45,307	56,237	67,167	78,097	1 1/2	
1 3/4	1,861	12,791	23,714	34,604	45,534	56,464	67,394	78,324	1 3/4	
2	2,089	13,019	23,941	34,831	45,761	56,691	67,621	78,551	2	
2 1/4	2,316	13,247	24,168	35,058	45,988	56,918	67,848	78,778	2 1/4	
2 1/2	2,544	13,474	24,395	35,285	46,215	57,145	68,075	79,005	2 1/2	
2 3/4	2,772	13,702	24,622	35,512	46,442	57,372	68,302	79,232	2 3/4	
3	3,000	13,930	24,849	35,739	46,669	57,599	68,529	79,459	3	
3 1/4	3,227	14,157	25,076	35,966	46,896	57,826	68,756	79,686	3 1/4	
3 1/2	3,455	14,385	25,303	36,193	47,123	58,053	68,983	79,913	3 1/2	
3 3/4	3,683	14,613	25,530	36,420	47,350	58,280	69,210	80,140	3 3/4	
4	3,910	14,841	25,757	36,647	47,577	58,507	69,437	80,367	4	
4 1/4	4,138	15,068	25,984	36,874	47,804	58,734	69,664	80,594	4 1/4	
4 1/2	4,366	15,296	26,211	37,101	48,031	58,961	69,891	80,821	4 1/2	
4 3/4	4,594	15,524	26,438	37,328	48,258	59,188	70,118	81,048	4 3/4	
5	4,821	15,751	26,665	37,555	48,485	59,415	70,345	81,275	5	
5 1/4	5,049	15,979	26,892	37,782	48,712	59,642	70,572	81,502	5 1/4	
5 1/2	5,277	16,207	27,119	38,009	48,939	59,869	70,799	81,729	5 1/2	
5 3/4	5,504	16,435	27,346	38,236	49,166	60,096	71,026	81,956	5 3/4	
6	5,732	16,662	27,573	38,463	49,393	60,323	71,253	82,183	6	
6 1/4	5,960	16,890	27,800	38,690	49,620	60,550	71,480	82,410	6 1/4	
6 1/2	6,188	17,118	28,027	38,917	49,847	60,777	71,707	82,637	6 1/2	
6 3/4	6,415	17,345	28,254	39,144	50,074	61,004	71,934	82,864	6 3/4	
7	6,643	17,573	28,481	39,371	50,301	61,231	72,161	83,091	7	
7 1/4	6,871	17,801	28,708	39,598	50,528	61,458	72,388	83,318	7 1/4	
7 1/2	7,098	18,028	28,935	39,825	50,755	61,685	72,615	83,545	7 1/2	
7 3/4	7,326	18,256	29,162	40,052	50,982	61,912	72,842	83,772	7 3/4	
8	7,554	18,484	29,389	40,279	51,209	62,139	73,069	84,000	8	
8 1/4	7,781	18,712	29,616	40,506	51,436	62,366	73,296	84,227	8 1/4	
8 1/2	8,009	18,939	29,843	40,733	51,663	62,593	73,523	84,454	8 1/2	
8 3/4	8,237	19,167	30,070	40,960	51,890	62,820	73,750	84,681	8 3/4	
9	8,465	19,395	30,297	41,187	52,117	63,047	73,977	84,908	9	
9 1/4	8,692	19,622	30,524	41,414	52,344	63,274	74,204	85,135	9 1/4	
9 1/2	8,920	19,850	30,751	41,641	52,571	63,501	74,431	85,362	9 1/2	
9 3/4	9,148	20,078	30,978	41,868	52,798	63,728	74,658	85,589	9 3/4	
10	9,375	20,306	31,205	42,095	53,025	63,955	74,885	85,816	10	
10 1/4	9,603	20,533	31,432	42,322	53,252	64,182	75,112	86,043	10 1/4	
10 1/2	9,831	20,761	31,659	42,549	53,479	64,409	75,339	86,270	10 1/2	
10 3/4	10,059	20,989	31,886	42,776	53,706	64,636	75,566	86,497	10 3/4	
11	10,286	21,216	32,113	43,003	53,933	64,863	75,793	86,724	11	
11 1/4	10,514	21,444	32,340	43,230	54,160	65,090	76,020	86,951	11 1/4	
11 1/2	10,742	21,672	32,567	43,457	54,387	65,317	76,247	87,178	11 1/2	
11 3/4	10,969	21,900	32,794	43,684	54,614	65,544	76,474	87,405	11 3/4	

*CAPACITY BELOW STRIKE POINT.

GAUGE HEIGHT: 14'-11 1/2" (TO TOP OF BALL VALVE HATCH)

STRAPPED: 1/20/92

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 1016"

INGRAM BARGE LINES

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

HULL NO. 1586

IN.	8 FEET	9 FEET	10 FEET	11 FEET	12 FEET	13 FEET	14 FEET	FEET	IN.
0	87.665	87.665	87.665	87.665	87.665	87.665	87.665	87.665	0
1/4	87.892	87.892	87.892	87.892	87.892	87.892	87.892	87.892	1/4
1/2	88.120	88.120	88.120	88.120	88.120	88.120	88.120	88.120	1/2
3/4	88.348	88.348	88.348	88.348	88.348	88.348	88.348	88.348	3/4
1	88.576	88.576	88.576	88.576	88.576	88.576	88.576	88.576	1
1/4	88.803	88.803	88.803	88.803	88.803	88.803	88.803	88.803	1/4
1/2	89.031	89.031	89.031	89.031	89.031	89.031	89.031	89.031	1/2
3/4	89.259	89.259	89.259	89.259	89.259	89.259	89.259	89.259	3/4
2	89.486	89.486	89.486	89.486	89.486	89.486	89.486	89.486	2
1/4	89.714	89.714	89.714	89.714	89.714	89.714	89.714	89.714	1/4
1/2	89.942	89.942	89.942	89.942	89.942	89.942	89.942	89.942	1/2
3/4	90.170	90.170	90.170	90.170	90.170	90.170	90.170	90.170	3/4
3	90.397	90.397	90.397	90.397	90.397	90.397	90.397	90.397	3
1/4	90.625	90.625	90.625	90.625	90.625	90.625	90.625	90.625	1/4
1/2	90.853	90.853	90.853	90.853	90.853	90.853	90.853	90.853	1/2
3/4	91.080	91.080	91.080	91.080	91.080	91.080	91.080	91.080	3/4
4	91.308	91.308	91.308	91.308	91.308	91.308	91.308	91.308	4
1/4	91.536	91.536	91.536	91.536	91.536	91.536	91.536	91.536	1/4
1/2	91.764	91.764	91.764	91.764	91.764	91.764	91.764	91.764	1/2
3/4	91.991	91.991	91.991	91.991	91.991	91.991	91.991	91.991	3/4
5	92.219	92.219	92.219	92.219	92.219	92.219	92.219	92.219	5
1/4	92.447	92.447	92.447	92.447	92.447	92.447	92.447	92.447	1/4
1/2	92.674	92.674	92.674	92.674	92.674	92.674	92.674	92.674	1/2
3/4	92.902	92.902	92.902	92.902	92.902	92.902	92.902	92.902	3/4
6	93.130	93.130	93.130	93.130	93.130	93.130	93.130	93.130	6
1/4	93.357	93.357	93.357	93.357	93.357	93.357	93.357	93.357	1/4
1/2	93.585	93.585	93.585	93.585	93.585	93.585	93.585	93.585	1/2
3/4	93.813	93.813	93.813	93.813	93.813	93.813	93.813	93.813	3/4
7	94.041	94.041	94.041	94.041	94.041	94.041	94.041	94.041	7
1/4	94.268	94.268	94.268	94.268	94.268	94.268	94.268	94.268	1/4
1/2	94.496	94.496	94.496	94.496	94.496	94.496	94.496	94.496	1/2
3/4	94.724	94.724	94.724	94.724	94.724	94.724	94.724	94.724	3/4
8	94.951	94.951	94.951	94.951	94.951	94.951	94.951	94.951	8
1/4	95.179	95.179	95.179	95.179	95.179	95.179	95.179	95.179	1/4
1/2	95.407	95.407	95.407	95.407	95.407	95.407	95.407	95.407	1/2
3/4	95.635	95.635	95.635	95.635	95.635	95.635	95.635	95.635	3/4
9	95.862	95.862	95.862	95.862	95.862	95.862	95.862	95.862	9
1/4	96.090	96.090	96.090	96.090	96.090	96.090	96.090	96.090	1/4
1/2	96.318	96.318	96.318	96.318	96.318	96.318	96.318	96.318	1/2
3/4	96.545	96.545	96.545	96.545	96.545	96.545	96.545	96.545	3/4
10	96.773	96.773	96.773	96.773	96.773	96.773	96.773	96.773	10
1/4	97.001	97.001	97.001	97.001	97.001	97.001	97.001	97.001	1/4
1/2	97.229	97.229	97.229	97.229	97.229	97.229	97.229	97.229	1/2
3/4	97.456	97.456	97.456	97.456	97.456	97.456	97.456	97.456	3/4
11	97.684	97.684	97.684	97.684	97.684	97.684	97.684	97.684	11
1/4	97.912	97.912	97.912	97.912	97.912	97.912	97.912	97.912	1/4
1/2	98.139	98.139	98.139	98.139	98.139	98.139	98.139	98.139	1/2
3/4	98.367	98.367	98.367	98.367	98.367	98.367	98.367	98.367	3/4

CAPACITY IN: U. S. GALLONS

GAUGE HEIGHT: 14"-11 1/2" (TO TOP OF BALL VALVE HATCH)

STRONG NO. 1/20/92

CHAS. MARTIN CORPORATION

BARGE "IB 1016"

INGRAM BARGE LINES

COMPANY OF INSURANCE

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

HULL NO. 1586

IN.	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.	0	CONTINUED ON SHEET NO. 2
0	1,290	0	13,296	0	25,302	0	37,307	0	49,313	0	61,319	0	73,325	0	85,331	0	97,337	0	
1/4	1,540	1/4	13,546	1/4	25,552	1/4	37,557	1/4	49,563	1/4	61,569	1/4	73,575	1/4	85,581	1/4	97,587	1/4	
1/2	1,790	1/2	13,796	1/2	25,802	1/2	37,808	1/2	49,813	1/2	61,819	1/2	73,825	1/2	85,831	1/2	97,837	1/2	
3/4	2,040	3/4	14,046	3/4	26,052	3/4	38,058	3/4	50,064	3/4	62,069	3/4	74,075	3/4	86,081	3/4	98,087	3/4	
1	2,290	1	14,296	1	26,302	1	38,308	1	50,314	1	62,319	1	74,325	1	86,331	1	98,337	1	
1/4	2,541	1/4	14,546	1/4	26,548	1/4	38,554	1/4	50,560	1/4	62,566	1/4	74,572	1/4	86,578	1/4	98,584	1/4	
1/2	2,791	1/2	14,796	1/2	26,794	1/2	38,800	1/2	50,806	1/2	62,812	1/2	74,818	1/2	86,824	1/2	98,830	1/2	
3/4	3,041	3/4	15,042	3/4	27,042	3/4	39,048	3/4	51,054	3/4	63,060	3/4	75,066	3/4	87,072	3/4	99,078	3/4	
1	3,291	1	15,291	1	27,291	1	39,291	1	51,291	1	63,291	1	75,291	1	87,291	1	99,291	1	
1/4	3,541	1/4	15,541	1/4	27,541	1/4	39,541	1/4	51,541	1/4	63,541	1/4	75,541	1/4	87,541	1/4	99,541	1/4	
1/2	3,791	1/2	15,791	1/2	27,791	1/2	39,791	1/2	51,791	1/2	63,791	1/2	75,791	1/2	87,791	1/2	99,791	1/2	
3/4	4,041	3/4	16,047	3/4	28,053	3/4	40,059	3/4	52,065	3/4	64,071	3/4	76,077	3/4	88,083	3/4	100,089	3/4	
1	4,291	1	16,297	1	28,297	1	40,309	1	52,315	1	64,321	1	76,327	1	88,333	1	100,339	1	
1/4	4,541	1/4	16,547	1/4	28,547	1/4	40,559	1/4	52,565	1/4	64,571	1/4	76,577	1/4	88,583	1/4	100,589	1/4	
1/2	4,792	1/2	16,797	1/2	28,797	1/2	40,809	1/2	52,815	1/2	64,821	1/2	76,827	1/2	88,833	1/2	100,839	1/2	
3/4	5,042	3/4	17,048	3/4	29,053	3/4	41,059	3/4	53,065	3/4	65,071	3/4	77,077	3/4	89,083	3/4	101,089	3/4	
1	5,292	1	17,298	1	29,303	1	41,309	1	53,315	1	65,321	1	77,327	1	89,333	1	101,339	1	
1/4	5,542	1/4	17,548	1/4	29,548	1/4	41,559	1/4	53,565	1/4	65,571	1/4	77,577	1/4	89,583	1/4	101,589	1/4	
1/2	5,792	1/2	17,798	1/2	29,792	1/2	41,810	1/2	53,815	1/2	65,821	1/2	77,827	1/2	89,833	1/2	101,839	1/2	
3/4	6,042	3/4	18,048	3/4	30,054	3/4	42,060	3/4	54,065	3/4	66,071	3/4	78,077	3/4	90,083	3/4	102,089	3/4	
1	6,292	1	18,298	1	30,304	1	42,310	1	54,316	1	66,321	1	78,327	1	90,333	1	102,339	1	
1/4	6,542	1/4	18,548	1/4	30,554	1/4	42,560	1/4	54,566	1/4	66,571	1/4	78,577	1/4	90,583	1/4	102,589	1/4	
1/2	6,793	1/2	18,798	1/2	30,804	1/2	42,810	1/2	54,816	1/2	66,822	1/2	78,827	1/2	90,833	1/2	102,839	1/2	
3/4	7,043	3/4	19,049	3/4	31,054	3/4	43,060	3/4	55,066	3/4	67,072	3/4	79,077	3/4	91,083	3/4	103,089	3/4	
1	7,293	1	19,299	1	31,304	1	43,310	1	55,316	1	67,322	1	79,327	1	91,333	1	103,339	1	
1/4	7,543	1/4	19,549	1/4	31,554	1/4	43,560	1/4	55,566	1/4	67,572	1/4	79,577	1/4	91,583	1/4	103,589	1/4	
1/2	7,793	1/2	19,799	1/2	31,804	1/2	43,810	1/2	55,816	1/2	67,822	1/2	79,827	1/2	91,833	1/2	103,839	1/2	
3/4	8,043	3/4	20,049	3/4	32,054	3/4	44,061	3/4	56,066	3/4	68,072	3/4	80,077	3/4	92,083	3/4	104,089	3/4	
1	8,293	1	20,299	1	32,304	1	44,311	1	56,317	1	68,322	1	80,327	1	92,333	1	104,339	1	
1/4	8,543	1/4	20,549	1/4	32,554	1/4	44,561	1/4	56,567	1/4	68,572	1/4	80,577	1/4	92,583	1/4	104,589	1/4	
1/2	8,794	1/2	20,799	1/2	32,804	1/2	44,811	1/2	56,817	1/2	68,822	1/2	80,827	1/2	92,833	1/2	104,839	1/2	
3/4	9,044	3/4	21,049	3/4	33,054	3/4	45,061	3/4	57,067	3/4	69,072	3/4	81,077	3/4	93,083	3/4	105,089	3/4	
1	9,294	1	21,299	1	33,304	1	45,311	1	57,317	1	69,322	1	81,327	1	93,333	1	105,339	1	
1/4	9,544	1/4	21,549	1/4	33,554	1/4	45,561	1/4	57,567	1/4	69,572	1/4	81,577	1/4	93,583	1/4	105,589	1/4	
1/2	9,794	1/2	21,799	1/2	33,804	1/2	45,811	1/2	57,817	1/2	69,822	1/2	81,827	1/2	93,833	1/2	105,839	1/2	
3/4	10,044	3/4	22,049	3/4	34,054	3/4	46,062	3/4	58,067	3/4	70,072	3/4	82,077	3/4	94,083	3/4	106,089	3/4	
1	10,294	1	22,299	1	34,304	1	46,312	1	58,317	1	70,322	1	82,327	1	94,333	1	106,339	1	
1/4	10,544	1/4	22,549	1/4	34,554	1/4	46,562	1/4	58,567	1/4	70,572	1/4	82,577	1/4	94,583	1/4	106,589	1/4	
1/2	10,794	1/2	22,799	1/2	34,804	1/2	46,812	1/2	58,817	1/2	70,822	1/2	82,827	1/2	94,833	1/2	106,839	1/2	
3/4	11,044	3/4	23,049	3/4	35,054	3/4	47,062	3/4	59,067	3/4	71,072	3/4	83,077	3/4	95,083	3/4	107,089	3/4	
1	11,294	1	23,299	1	35,304	1	47,312	1	59,317	1	71,322	1	83,327	1	95,333	1	107,339	1	
1/4	11,544	1/4	23,549	1/4	35,554	1/4	47,562	1/4	59,567	1/4	71,572	1/4	83,577	1/4	95,583	1/4	107,589	1/4	
1/2	11,794	1/2	23,799	1/2	35,804	1/2	47,812	1/2	59,817	1/2	71,822	1/2	83,827	1/2	95,833	1/2	107,839	1/2	
3/4	12,044	3/4	24,049	3/4	36,054	3/4	48,062	3/4	60,067	3/4	72,072	3/4	84,077	3/4	96,083	3/4	108,089	3/4	
1	12,294	1	24,299	1	36,304	1	48,312	1	60,317	1	72,322	1	84,327	1	96,333	1	108,339	1	
1/4	12,544	1/4	24,549	1/4	36,554	1/4	48,562	1/4	60,567	1/4	72,572	1/4	84,577	1/4	96,583	1/4	108,589	1/4	
1/2	12,794	1/2	24,799	1/2	36,804	1/2	48,812	1/2	60,817	1/2	72,822	1/2	84,827	1/2	96,833	1/2	108,839	1/2	
3/4	13,044	3/4	25,049	3/4	37,054	3/4	49,062	3/4	61,067	3/4	73,072	3/4	85,077	3/4	97,083	3/4	109,089	3/4	
1	13,294	1	25,299	1	37,304	1	49,312	1	61,317	1	73,322	1	85,327	1	97,333	1	109,339	1	

*CAPACITY BELOW STRIKE POINT.

GAUGE HEIGHT: 14'-10" (10 TOP OF BALL VALVE HATCH)

STRAINED: 1/20/92

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
 CHAS. MARTIN CO. ORATION

BARGE "IB 1016"

INGRAM BARGE LINES

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

HULL NO. 1586

IN.	8 FEET	9 FEET	10 FEET	11 FEET	12 FEET	13 FEET	14 FEET	FEET	FEET
0	97,536	109,542	121,548	133,554	144,757	155,846	162,716	0	0
1/4	97,587	109,592	121,598	133,600	144,900	156,075	162,716	0	1/4
1/2	97,637	109,642	121,648	133,642	145,224	156,504	162,716	0	1/2
3/4	98,087	110,092	122,092	134,085	145,457	156,533	162,716	0	3/4
1	98,537	110,543	122,548	134,528	145,691	156,762	162,716	1	1
1/2	98,587	110,593	122,599	134,470	145,924	156,991	162,716	1	1/2
1/4	98,637	110,643	122,649	134,413	146,158	157,220	162,716	1	1/4
0	99,087	111,093	123,092	134,852	146,391	157,449	162,716	1	0
2	99,537	111,543	123,549	135,291	146,625	157,678	162,716	2	2
1/4	99,587	111,593	123,599	135,233	146,858	157,907	162,716	2	1/4
1/2	99,637	111,643	123,649	135,175	147,092	158,136	162,716	2	1/2
3/4	100,088	112,094	124,099	135,614	147,325	158,365	162,716	3	3/4
1	100,538	112,544	124,549	136,053	147,559	158,594	162,716	3	1
1/2	100,588	112,594	124,599	136,000	147,793	158,810	162,716	3	1/2
1/4	100,638	112,644	124,649	136,000	148,026	159,027	162,716	3	1/4
0	101,088	113,094	125,100	136,438	148,260	159,243	162,716	4	0
4	101,538	113,544	125,550	136,846	148,493	159,459	162,716	4	4
1/4	101,588	113,594	125,599	137,254	148,724	159,650	162,716	4	1/4
1/2	101,639	113,644	125,647	137,618	148,954	159,841	162,716	4	1/2
3/4	102,089	114,094	126,096	138,057	149,185	160,032	162,716	4	3/4
5	102,539	114,544	126,544	138,465	149,415	160,223	162,716	5	5
1/4	102,589	114,594	126,593	138,873	149,646	160,388	162,716	5	1/4
1/2	102,639	114,644	126,642	139,281	149,876	160,553	162,716	5	1/2
3/4	103,089	115,094	127,090	139,689	150,107	160,719	162,716	5	3/4
6	103,539	115,544	127,539	140,097	150,337	160,884	162,716	6	6
1/4	103,589	115,594	127,587	140,505	150,566	161,024	162,716	6	1/4
1/2	103,639	115,644	127,636	140,913	150,798	161,164	162,716	6	1/2
3/4	104,089	116,094	128,085	141,321	151,029	161,304	162,716	6	3/4
7	104,539	116,544	128,533	141,729	151,259	161,444	162,716	7	7
1/4	104,589	116,594	128,582	142,137	151,490	161,558	162,716	7	1/4
1/2	104,639	116,644	128,631	142,545	151,720	161,672	162,716	7	1/2
3/4	105,089	117,094	129,079	142,953	151,951	161,787	162,716	7	3/4
8	105,539	117,544	129,528	143,361	152,182	161,902	162,716	8	8
1/4	105,589	117,594	129,577	143,769	152,411	162,016	162,716	8	1/4
1/2	105,639	117,644	129,626	144,177	152,640	162,130	162,716	8	1/2
3/4	106,089	118,094	130,074	144,585	152,869	162,244	162,716	8	3/4
9	106,539	118,544	130,523	144,993	153,098	162,358	162,716	9	9
1/4	106,589	118,594	130,572	145,401	153,327	162,472	162,716	9	1/4
1/2	106,639	118,644	130,621	145,809	153,556	162,586	162,716	9	1/2
3/4	107,089	119,094	131,069	146,217	153,785	162,700	162,716	9	3/4
10	107,539	119,544	131,517	146,625	154,014	162,814	162,716	10	10
1/4	107,589	119,594	131,566	147,033	154,243	162,928	162,716	10	1/4
1/2	107,639	119,644	131,615	147,441	154,472	163,042	162,716	10	1/2
3/4	108,089	120,094	132,063	147,849	154,701	163,156	162,716	10	3/4
11	108,539	120,544	132,511	148,257	154,930	163,270	162,716	11	11
1/4	108,589	120,594	132,560	148,665	155,159	163,384	162,716	11	1/4
1/2	108,639	120,644	132,609	149,073	155,388	163,498	162,716	11	1/2
3/4	109,089	121,094	133,057	149,481	155,617	163,612	162,716	11	3/4

CAPACITY IN: U.S. GALLONS

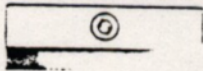
GAUGE HEIGHT: 14'-10" (TO TOP OF BALL VALVE HATCH)

STRAPPED: 1/20/92

CHAS. MARTIN CORPORATION

Chas. MARTIN

A
COMPANY OF



BARGE "IB 1016"

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: 1/20/92

BARGE "IB 1016"

INGRAM BARGE LINES

SHEET NO. 1 OF 2
 TANK NUMBER
1

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

HULL NO. 1586

IN.	0 FEET	1 FEET	2 FEET	3 FEET	4 FEET	5 FEET	6 FEET	7 FEET	FEET
0	719	11,590	22,456	35,289	44,157	55,026	65,894	76,762	CONTINUED ON SHEET NO. 2
1/4	945	11,816	22,682	35,516	44,384	55,252	66,120	76,988	
1/2	1,172	12,043	22,908	35,742	44,610	55,479	66,347	77,215	
3/4	1,399	12,269	23,133	35,968	44,837	55,705	66,573	77,442	
1	1,625	12,496	23,359	36,193	45,063	55,931	66,800	77,668	
1 1/4	1,852	12,722	23,585	36,421	45,290	56,158	67,026	77,894	
1 1/2	2,078	12,949	23,810	36,648	45,516	56,384	67,253	78,121	
1 3/4	2,305	13,175	24,036	36,874	45,742	56,611	67,479	78,347	
2	2,531	13,401	24,262	37,101	45,969	56,837	67,705	78,574	
2 1/4	2,758	13,628	24,487	37,327	46,195	57,064	67,932	78,800	
2 1/2	2,984	13,854	24,713	37,553	46,422	57,290	68,158	79,026	
2 3/4	3,211	14,081	24,938	37,780	46,648	57,516	68,383	79,253	
3	3,437	14,307	25,164	38,006	46,875	57,743	68,611	79,479	
3 1/4	3,664	14,534	25,390	38,233	47,101	57,969	68,837	79,706	
3 1/2	3,890	14,760	25,615	38,459	47,327	58,196	69,064	79,932	
3 3/4	4,117	14,986	25,841	38,686	47,554	58,422	69,290	80,159	
4	4,344	15,213	26,067	38,912	47,780	58,649	69,517	80,385	
4 1/4	4,570	15,439	26,292	39,138	48,007	58,875	69,743	80,611	
4 1/2	4,797	15,666	26,518	39,365	48,233	59,101	69,970	80,838	
4 3/4	5,023	15,892	26,743	39,591	48,460	59,328	70,196	81,064	
5	5,250	16,119	26,969	39,818	48,686	59,554	70,422	81,291	
5 1/4	5,476	16,345	27,195	40,044	48,912	59,781	70,649	81,517	
5 1/2	5,703	16,572	27,420	40,271	49,139	60,007	70,875	81,744	
5 3/4	5,929	16,798	27,646	40,497	49,365	60,233	71,102	81,970	
6	6,156	17,024	27,872	40,723	49,592	60,460	71,328	82,196	
6 1/4	6,382	17,251	28,097	40,950	49,818	60,686	71,555	82,423	
6 1/2	6,608	17,477	28,323	41,176	50,044	60,913	71,781	82,649	
6 3/4	6,835	17,704	28,549	41,402	50,271	61,139	72,007	82,876	
7	7,061	17,930	28,774	41,629	50,497	61,366	72,234	83,102	
7 1/4	7,288	18,157	29,000	41,855	50,724	61,592	72,460	83,329	
7 1/2	7,514	18,383	29,225	42,082	50,950	61,818	72,687	83,555	
7 3/4	7,741	18,609	29,451	42,308	51,177	62,045	72,913	83,781	
8	7,967	18,836	29,677	42,535	51,403	62,271	73,140	84,008	
8 1/4	8,193	19,062	29,902	42,761	51,629	62,498	73,366	84,234	
8 1/2	8,420	19,289	30,128	42,988	51,856	62,724	73,592	84,461	
8 3/4	8,646	19,515	30,354	43,214	52,082	62,951	73,818	84,687	
9	8,873	19,742	30,579	43,440	52,309	63,177	74,045	84,913	
9 1/4	9,099	19,968	30,805	43,667	52,535	63,403	74,272	85,140	
9 1/2	9,326	20,195	31,031	43,893	52,762	63,630	74,498	85,366	
9 3/4	9,552	20,421	31,256	44,120	52,988	63,856	74,724	85,593	
10	9,778	20,647	31,482	44,346	53,214	64,083	74,951	85,819	
10 1/4	10,005	20,874	31,707	44,573	53,441	64,309	75,177	86,046	
10 1/2	10,231	21,100	31,933	44,799	53,667	64,535	75,404	86,272	
10 3/4	10,458	21,327	32,159	45,025	53,894	64,762	75,630	86,498	
11	10,684	21,553	32,384	45,252	54,120	64,988	75,857	86,725	
11 1/4	10,911	21,780	32,610	45,478	54,346	65,215	76,083	86,951	
11 1/2	11,137	22,005	32,836	45,705	54,573	65,441	76,309	87,178	
11 3/4	11,364	22,231	33,063	45,931	54,799	65,668	76,536	87,404	

CAPACITY IN: U.S. GALLONS

*CAPACITY BELOW STRIKE POINT.

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

STRAPPED: 1/20/92

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
 CHAS. MARTIN CORPORATION