



BARGE "HFL-435"

HINES FURLONG LINE

HULL NO. 4859

CORRECTION TABLE FOR TRIM AFT.

FOR OUTAGE GAUGES ONLY

TRIM	TANKS NO. 1 PORT OR STAR.	TANKS NO. 2 PORT OR STAR.	TANKS NO. 3 PORT OR STAR.
0'-6"	(+) 0' - 1"	(+) 0' - 1"	(-) 0' - 1"
1'-0"	(+) 0' - 2"	(+) 0' - 2"	(-) 0' - 2"
1'-6"	(+) 0' - 3"	(+) 0' - 3"	(-) 0' - 3"
2'-0"	(+) 0' - 4"	(+) 0' - 4"	(-) 0' - 4"
2'-6"	(+) 0' - 5"	(+) 0' - 5 1/8"	(-) 0' - 5"
3'-0"	(+) 0' - 6 1/8"	(+) 0' - 6 1/8"	(-) 0' - 6 1/8"
3'-6"	(+) 0' - 7 1/8"	(+) 0' - 7 1/8"	(-) 0' - 7 1/8"
4'-0"	(+) 0' - 8 1/8"	(+) 0' - 8 1/8"	(-) 0' - 8 1/8"
4'-6"	(+) 0' - 9 1/8"	(+) 0' - 9 1/8"	(-) 0' - 9 1/8"
5'-0"	(+) 0' - 10 1/8"	(+) 0' - 10 1/8"	(-) 0' - 10 1/8"

NOTE: FOR TRIM FWD., REVERSE SIGNS.

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

NOTE: FOR "INNAGE" GAUGES, REVERSE SIGNS.

NOTE: FOR 10" DIAMETER HATCH ONLY (OPEN GAUGING)

DATE: 12/28/11

BY: _____

INSPECTORATE AMERICA CORPORATION



BARGE "HFL-435" HINES FURLONG LINE

OUTAGE TABLE

3 PORT OR STAR

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

HULL NO. 4859

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.		10 FT.		11 FT.		12 FT.		13 FT.		14 FT.			
0		0		0		0	4,670.44	0	4,428.96	0	4,175.33	0	3,921.70	0	3,668.07	0	3,355.64	0	2,992.91	0	2,630.17	0	2,267.43	0	1,904.70	0	1,541.96	0	1,179.23		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,667.12	1/4	4,423.68	1/4	4,170.05	1/4	3,916.41	1/4	3,662.78	1/4	3,348.08	1/4	2,985.35	1/4	2,622.61	1/4	2,259.88	1/4	1,897.14	1/4	1,534.40	1/4	1,171.67		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,663.79	1/2	4,418.39	1/2	4,164.76	1/2	3,911.13	1/2	3,657.50	1/2	3,340.53	1/2	2,977.79	1/2	2,615.06	1/2	2,252.32	1/2	1,889.58	1/2	1,526.85	1/2	1,164.11		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,660.47	3/4	4,413.11	3/4	4,159.48	3/4	3,905.85	3/4	3,652.21	3/4	3,332.97	3/4	2,970.23	3/4	2,607.50	3/4	2,244.76	3/4	1,882.03	3/4	1,519.29	3/4	1,156.55		
1		1		1		1	4,656.36	1	4,407.83	1	4,154.19	1	3,900.56	1	3,646.93	1	3,325.41	1	2,962.68	1	2,599.94	1	2,237.21	1	1,874.47	1	1,511.73	1	1,149.00		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,652.25	1/4	4,402.54	1/4	4,148.91	1/4	3,895.28	1/4	3,641.65	1/4	3,317.86	1/4	2,955.12	1/4	2,592.38	1/4	2,229.65	1/4	1,866.91	1/4	1,504.18	1/4	1,141.44		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,648.14	1/2	4,397.26	1/2	4,143.63	1/2	3,889.99	1/2	3,636.36	1/2	3,310.30	1/2	2,947.56	1/2	2,584.83	1/2	2,222.09	1/2	1,859.36	1/2	1,496.62	1/2	1,133.88		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,644.03	3/4	4,391.97	3/4	4,138.34	3/4	3,884.71	3/4	3,631.08	3/4	3,302.74	3/4	2,940.01	3/4	2,577.27	3/4	2,214.53	3/4	1,851.80	3/4	1,489.06	3/4	1,126.33		
2		2		2		2	4,639.14	2	4,386.69	2	4,133.06	2	3,879.43	2	3,625.79	2	3,295.19	2	2,932.45	2	2,569.71	2	2,206.98	2	1,844.24	2	1,481.51	2	1,118.77		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,634.25	1/4	4,381.41	1/4	4,127.77	1/4	3,874.14	1/4	3,620.51	1/4	3,287.63	1/4	2,924.89	1/4	2,562.16	1/4	2,199.42	1/4	1,836.68	1/4	1,473.95	1/4	1,111.21		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,629.36	1/2	4,376.12	1/2	4,122.49	1/2	3,868.86	1/2	3,615.10	1/2	3,280.07	1/2	2,917.34	1/2	2,554.60	1/2	2,191.86	1/2	1,829.13	1/2	1,466.39	1/2	1,103.66		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,624.47	3/4	4,370.84	3/4	4,117.21	3/4	3,863.57	3/4	3,609.69	3/4	3,272.51	3/4	2,909.78	3/4	2,547.04	3/4	2,184.31	3/4	1,821.57	3/4	1,458.83	3/4	1,096.10		
3		3		3		3	4,619.19	3	4,365.55	3	4,111.92	3	3,858.29	3	3,604.27	3	3,264.96	3	2,902.22	3	2,539.49	3	2,176.75	3	1,814.01	3	1,451.28	3	1,088.54		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,613.90	1/4	4,360.27	1/4	4,106.64	1/4	3,853.01	1/4	3,598.56	1/4	3,257.40	1/4	2,894.66	1/4	2,531.93	1/4	2,169.19	1/4	1,806.46	1/4	1,443.72	1/4	1,080.98		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,608.62	1/2	4,354.99	1/2	4,101.35	1/2	3,847.72	1/2	3,592.84	1/2	3,249.84	1/2	2,887.11	1/2	2,524.37	1/2	2,161.64	1/2	1,798.90	1/2	1,436.16	1/2	1,073.43		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,603.33	3/4	4,349.70	3/4	4,096.07	3/4	3,842.44	3/4	3,587.13	3/4	3,242.29	3/4	2,879.55	3/4	2,516.81	3/4	2,154.08	3/4	1,791.34	3/4	1,428.61	3/4	1,065.87		
4		4		4		4	4,598.05	4	4,344.42	4	4,090.79	4	3,837.15	4	3,581.41	4	3,234.73	4	2,871.99	4	2,509.26	4	2,146.52	4	1,783.79	4	1,421.05	4	1,058.31		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,592.77	1/4	4,339.13	1/4	4,085.50	1/4	3,831.87	1/4	3,575.35	1/4	3,227.17	1/4	2,864.44	1/4	2,501.70	1/4	2,138.96	1/4	1,776.23	1/4	1,413.49	1/4	1,050.76		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,587.48	1/2	4,333.85	1/2	4,080.22	1/2	3,826.59	1/2	3,569.28	1/2	3,219.62	1/2	2,856.88	1/2	2,494.14	1/2	2,131.41	1/2	1,768.67	1/2	1,405.94	1/2	1,043.20		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,582.20	3/4	4,328.57	3/4	4,074.93	3/4	3,821.30	3/4	3,563.22	3/4	3,212.06	3/4	2,849.32	3/4	2,486.59	3/4	2,123.85	3/4	1,761.11	3/4	1,398.38	3/4	1,035.64		
5		5		5		5	4,576.91	5	4,323.28	5	4,069.65	5	3,816.02	5	3,557.16	5	3,204.50	5	2,841.77	5	2,479.03	5	2,116.29	5	1,753.56	5	1,390.82	5	1,028.07		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,571.63	1/4	4,318.00	1/4	4,064.37	1/4	3,810.73	1/4	3,550.75	1/4	3,196.94	1/4	2,834.21	1/4	2,471.47	1/4	2,108.74	1/4	1,746.00	1/4	1,383.26	1/4	1,020.49		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,566.35	1/2	4,312.71	1/2	4,059.08	1/2	3,805.45	1/2	3,544.34	1/2	3,189.39	1/2	2,826.65	1/2	2,463.92	1/2	2,101.18	1/2	1,738.44	1/2	1,375.71	1/2	1,012.91		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,561.06	3/4	4,307.43	3/4	4,053.80	3/4	3,800.17	3/4	3,537.94	3/4	3,181.83	3/4	2,819.09	3/4	2,456.36	3/4	2,093.62	3/4	1,730.89	3/4	1,368.15	3/4	1,005.33		
6		6		6		6	4,555.78	6	4,302.15	6	4,048.51	6	3,794.88	6	3,531.53	6	3,174.27	6	2,811.54	6	2,448.80	6	2,086.07	6	1,723.33	6	1,360.59	6	997.76		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,550.49	1/4	4,296.86	1/4	4,043.23	1/4	3,789.60	1/4	3,524.78	1/4	3,166.72	1/4	2,803.98	1/4	2,441.24	1/4	2,078.51	1/4	1,715.77	1/4	1,353.04	1/4	990.18		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,545.21	1/2	4,291.58	1/2	4,037.95	1/2	3,784.31	1/2	3,518.02	1/2	3,159.16	1/2	2,796.42	1/2	2,433.69	1/2	2,070.95	1/2	1,708.22	1/2	1,345.48	1/2	982.60		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,539.93	3/4	4,286.29	3/4	4,032.66	3/4	3,779.03	3/4	3,511.27	3/4	3,151.60	3/4	2,788.87	3/4	2,426.13	3/4	2,063.39	3/4	1,700.66	3/4	1,337.92	3/4	975.03		
7		7		7		7	4,534.64	7	4,281.01	7	4,027.38	7	3,773.75	7	3,504.51	7	3,144.05	7	2,781.31	7	2,418.57	7	2,055.84	7	1,693.10	7	1,330.37	7	967.45		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,529.36	1/4	4,275.73	1/4	4,022.09	1/4	3,768.46	1/4	3,497.41	1/4	3,136.49	1/4	2,773.75	1/4	2,411.02	1/4	2,048.28	1/4	1,685.54	1/4	1,322.81	1/4	959.87		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,524.07	1/2	4,270.44	1/2	4,016.81	1/2	3,763.18	1/2	3,490.31	1/2	3,128.93	1/2	2,766.20	1/2	2,403.46	1/2	2,040.72	1/2	1,677.99	1/2	1,315.25	1/2	952.30		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,518.79	3/4	4,265.16	3/4	4,011.53	3/4	3,757.89	3/4	3,483.21	3/4	3,121.37	3/4	2,758.64	3/4	2,395.90	3/4	2,033.17	3/4	1,670.43	3/4	1,307.69	3/4	944.72		
8		8		8		8	4,695.75	8	4,513.51	8	4,259.87	8	4,006.24	8	3,752.61	8	3,476.11	8	3,113.82	8	2,751.08	8	2,388.35	8	2,025.61	8	1,662.87	8	1,300.14	8	937.14
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,695.46	1/4	4,508.22	1/4	4,254.59	1/4	4,000.96	1/4	3,747.33	1/4	3,468.67	1/4	3,106.26	1/4	2,743.52	1/4	2,380.79	1/4	2,018.05	1/4	1,655.32	1/4	1,292.58	1/4	929.56
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,695.17	1/2	4,502.94	1/2	4,249.31	1/2	3,995.67	1/2	3,742.04	1/2	3,461.22	1/2	3,098.70	1/2	2,735.97	1/2	2,373.23	1/2	2,010.50	1/2	1,647.76	1/2	1,285.02	1/2	921.99
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,694.88	3/4	4,497.65	3/4	4,244.02	3/4	3,990.39	3/4	3,736.76	3/4	3,453.77	3/4	3,091.15	3/4	2,728.41	3/4	2,365.67	3/4	2,002.94	3/4	1,640.20	3/4	1,277.47	3/4	914.41
9		9		9		9	4,693.90	9	4,492.37	9	4,238.74	9	3,985.11	9	3,731.47	9	3,446.33	9	3,083.59	9	2,720.85	9	2,358.12	9	1,995.38	9	1,632.65	9	1,269.91	9	906.83
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,692.93	1/4	4,487.09	1/4	4,233.45	1/4	3,979.82	1/4	3,726.19	1/4	3,438.77	1/4	3,076.03	1/4	2,713.30	1/4	2,350.56	1/4	1,987.82	1/4	1,625.09	1/4	1,262.35	1/4	899.26
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,691.95	1/2	4,481.80	1/2	4,228.17	1/2	3,974.54	1/2	3,720.91	1/2	3,431.21	1/2	3,068.48	1/2	2,705.74	1/2	2,343.00	1/2	1,980.27	1/2	1,617.53	1/2	1,254.80	1/2	891.68
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,690.98	3/4	4,476.52	3/4																					



BARGE "HFL-435" HINES FURLONG LINE

OUTGAGE TABLE

3 PORT OR STAR

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

HULL NO. 4859

IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.	IN	20 FT.	IN	21 FT.	IN	22 FT.	IN	23 FT.	IN	24 FT.	IN	25 FT.	IN	26 FT.	IN	27 FT.	IN	28 FT.	IN	29 FT.
0	815.91	0	451.29	0	89.17	0		0		0		0		0		0		0		0		0		0		0		0	
1/4	808.33	1/4	443.68	1/4	81.80	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	800.76	1/2	436.07	1/2	74.44	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	793.18	3/4	428.46	3/4	67.07	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
1	785.60	1	420.85	1	59.70	1		1		1		1		1		1		1		1		1		1		1		1	
1/4	778.02	1/4	413.24	1/4	52.33	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	770.45	1/2	405.63	1/2	45.50	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	762.87	3/4	398.02	3/4	38.68	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
2	755.29	2	390.41	2	33.48	2		2		2		2		2		2		2		2		2		2		2		2	
1/4	747.72	1/4	382.80	1/4	28.29	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	740.14	1/2	375.20	1/2	23.10	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	732.56	3/4	367.59	3/4	17.91	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
3	724.99	3	359.98	3	14.58	3		3		3		3		3		3		3		3		3		3		3		3	
1/4	717.41	1/4	352.37	1/4	11.25	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	709.83	1/2	344.76	1/2	7.92	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	702.25	3/4	337.15	3/4	4.59	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
4	694.68	4	329.54	4	3.51	4		4		4		4		4		4		4		4		4		4		4		4	
1/4	687.10	1/4	321.93	1/4	2.44	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	679.52	1/2	314.32	1/2	* 1.36	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	671.95	3/4	306.71	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
5	664.34	5	299.11	5		5		5		5		5		5		5		5		5		5		5		5		5	
1/4	656.73	1/4	291.50	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	649.12	1/2	283.89	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	641.51	3/4	276.28	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
6	633.90	6	268.67	6		6		6		6		6		6		6		6		6		6		6		6		6	
1/4	626.29	1/4	261.06	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	618.68	1/2	253.45	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	611.07	3/4	245.84	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7	603.47	7	238.23	7		7		7		7		7		7		7		7		7		7		7		7		7	
1/4	595.86	1/4	230.62	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	588.25	1/2	223.02	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	580.64	3/4	215.41	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8	573.03	8	207.80	8		8		8		8		8		8		8		8		8		8		8		8		8	
1/4	565.42	1/4	200.19	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	557.81	1/2	192.58	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	550.20	3/4	184.97	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	542.59	9	177.60	9		9		9		9		9		9		9		9		9		9		9		9		9	
1/4	534.98	1/4	170.23	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	527.38	1/2	162.86	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	519.77	3/4	155.49	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	512.16	10	148.13	10		10		10		10		10		10		10		10		10		10		10		10		10	
1/4	504.55	1/4	140.76	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	496.94	1/2	133.39	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	489.33	3/4	126.02	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	481.72	11	118.65	11		11		11		11		11		11		11		11		11		11		11		11		11	
1/4	474.11	1/4	111.28	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	466.50	1/2	103.91	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	458.89	3/4	96.54	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

STRAPPED: 12/28/11

* CAPACITY BELOW STRIKE POINT.

REFERENCE GAUGE HEIGHT : 17'-4 1/2" (TO RIM OF 2" DIAMETER BALL VALVE)

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



BARGE "HFL-435"

HINES FURLONG LINE

HULL NO. 4859

CORRECTION TABLE FOR TRIM AFT.

FOR OUTAGE GAUGES ONLY

TRIM	TANKS NO. 1 PORT OR STAR.	TANKS NO. 2 PORT OR STAR.	TANKS NO. 3 PORT OR STAR.
0'-6"	(+) 0' - 1"	(+) 0' - 1"	(-) 0' - 1"
1'-0"	(+) 0' - 2"	(+) 0' - 2"	(-) 0' - 2"
1'-6"	(+) 0' - 3"	(+) 0' - 3"	(-) 0' - 3"
2'-0"	(+) 0' - 4"	(+) 0' - 4"	(-) 0' - 4"
2'-6"	(+) 0' - 5"	(+) 0' - 5"	(-) 0' - 5"
3'-0"	(+) 0' - 6"	(+) 0' - 6"	(-) 0' - 6"
3'-6"	(+) 0' - 7"	(+) 0' - 7"	(-) 0' - 7"
4'-0"	(+) 0' - 8"	(+) 0' - 8"	(-) 0' - 8"
4'-6"	(+) 0' - 9"	(+) 0' - 9"	(-) 0' - 9"
5'-0"	(+) 0' - 9 7/8"	(+) 0' - 10"	(-) 0' - 9 7/8"

NOTE: FOR TRIM FWD., REVERSE SIGNS.

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

NOTE: FOR "INNAGE" GAUGES, REVERSE SIGNS.

NOTE: FOR 2" DIAMETER BALL VALVE ONLY (CLOSED GAUGING)

DATE: 12/28/11

BY: _____

INSPECTORATE AMERICA CORPORATION



BARGE "HFL-435" HINES FURLONG LINE

INNAGE TABLE

3 PORT OR STAR

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

HULL NO. 4859

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.		10 FT.		11 FT.		12 FT.		13 FT.		14 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0	1.36	0	314.32	0	679.52	0	1,043.20	0	1,405.94	0	1,768.67	0	2,131.41	0	2,494.14	0	2,856.88	0	3,219.61	0	3,569.28	0	3,826.58	0	4,080.22	0	4,333.85	0	4,587.48
1/4	2.44	1/4	321.93	1/4	687.10	1/4	1,050.76	1/4	1,413.49	1/4	1,776.23	1/4	2,138.96	1/4	2,501.70	1/4	2,864.44	1/4	3,227.17	1/4	3,575.35	1/4	3,831.87	1/4	4,085.50	1/4	4,339.13	1/4	4,592.76
1/2	3.51	1/2	329.54	1/2	694.68	1/2	1,058.31	1/2	1,421.05	1/2	1,783.79	1/2	2,146.52	1/2	2,509.26	1/2	2,871.99	1/2	3,234.73	1/2	3,581.41	1/2	3,837.15	1/2	4,090.78	1/2	4,344.42	1/2	4,598.05
3/4	4.59	3/4	337.15	3/4	702.25	3/4	1,065.87	3/4	1,428.61	3/4	1,791.34	3/4	2,154.08	3/4	2,516.81	3/4	2,879.55	3/4	3,242.29	3/4	3,587.12	3/4	3,842.44	3/4	4,096.07	3/4	4,349.70	3/4	4,603.33
1	7.92	1	344.76	1	709.83	1	1,073.43	1	1,436.16	1	1,798.90	1	2,161.64	1	2,524.37	1	2,887.11	1	3,249.84	1	3,592.84	1	3,847.72	1	4,101.35	1	4,354.98	1	4,608.62
1/4	11.25	1/4	352.37	1/4	717.41	1/4	1,080.98	1/4	1,443.72	1/4	1,806.46	1/4	2,169.19	1/4	2,531.93	1/4	2,894.66	1/4	3,257.40	1/4	3,598.56	1/4	3,853.00	1/4	4,106.64	1/4	4,360.27	1/4	4,613.90
1/2	14.58	1/2	359.98	1/2	724.99	1/2	1,088.54	1/2	1,451.28	1/2	1,814.01	1/2	2,176.75	1/2	2,539.48	1/2	2,902.22	1/2	3,264.96	1/2	3,604.27	1/2	3,858.29	1/2	4,111.92	1/2	4,365.55	1/2	4,619.18
3/4	17.91	3/4	367.59	3/4	732.56	3/4	1,096.10	3/4	1,458.83	3/4	1,821.57	3/4	2,184.31	3/4	2,547.04	3/4	2,909.78	3/4	3,272.51	3/4	3,609.68	3/4	3,863.57	3/4	4,117.20	3/4	4,370.84	3/4	4,624.47
2	23.10	2	375.20	2	740.14	2	1,103.66	2	1,466.39	2	1,829.13	2	2,191.86	2	2,554.60	2	2,917.33	2	3,280.07	2	3,615.10	2	3,868.86	2	4,122.49	2	4,376.12	2	4,629.36
1/4	28.29	1/4	382.80	1/4	747.72	1/4	1,111.21	1/4	1,473.95	1/4	1,836.68	1/4	2,199.42	1/4	2,562.16	1/4	2,924.89	1/4	3,287.63	1/4	3,620.51	1/4	3,874.14	1/4	4,127.77	1/4	4,381.40	1/4	4,634.25
1/2	33.48	1/2	390.41	1/2	755.29	1/2	1,118.77	1/2	1,481.51	1/2	1,844.24	1/2	2,206.98	1/2	2,569.71	1/2	2,932.45	1/2	3,295.18	1/2	3,625.79	1/2	3,879.42	1/2	4,133.06	1/2	4,386.69	1/2	4,639.14
3/4	38.68	3/4	398.02	3/4	762.87	3/4	1,126.33	3/4	1,489.06	3/4	1,851.80	3/4	2,214.53	3/4	2,577.27	3/4	2,940.01	3/4	3,302.74	3/4	3,631.08	3/4	3,884.71	3/4	4,138.34	3/4	4,391.97	3/4	4,644.03
3	45.50	3	405.63	3	770.45	3	1,133.88	3	1,496.62	3	1,859.36	3	2,222.09	3	2,584.83	3	2,947.56	3	3,310.30	3	3,636.36	3	3,889.99	3	4,143.62	3	4,397.26	3	4,648.14
1/4	52.33	1/4	413.24	1/4	778.02	1/4	1,141.44	1/4	1,504.18	1/4	1,866.91	1/4	2,229.65	1/4	2,592.38	1/4	2,955.12	1/4	3,317.86	1/4	3,641.64	1/4	3,895.28	1/4	4,148.91	1/4	4,402.54	1/4	4,652.25
1/2	59.70	1/2	420.85	1/2	785.60	1/2	1,149.00	1/2	1,511.73	1/2	1,874.47	1/2	2,237.21	1/2	2,599.94	1/2	2,962.68	1/2	3,325.41	1/2	3,646.93	1/2	3,900.56	1/2	4,154.19	1/2	4,407.82	1/2	4,656.36
3/4	67.07	3/4	428.46	3/4	793.18	3/4	1,156.55	3/4	1,519.29	3/4	1,882.03	3/4	2,247.76	3/4	2,607.50	3/4	2,970.23	3/4	3,332.97	3/4	3,652.21	3/4	3,905.84	3/4	4,159.48	3/4	4,413.11	3/4	4,660.46
4	74.44	4	436.07	4	800.76	4	1,164.11	4	1,526.85	4	1,889.58	4	2,252.32	4	2,615.05	4	2,977.79	4	3,340.53	4	3,657.50	4	3,911.13	4	4,164.76	4	4,418.39	4	4,663.79
1/4	81.80	1/4	443.68	1/4	808.33	1/4	1,171.67	1/4	1,534.40	1/4	1,897.14	1/4	2,259.88	1/4	2,622.61	1/4	2,985.35	1/4	3,348.08	1/4	3,662.78	1/4	3,916.41	1/4	4,170.04	1/4	4,423.68	1/4	4,667.11
1/2	89.17	1/2	451.29	1/2	815.91	1/2	1,179.23	1/2	1,541.96	1/2	1,904.70	1/2	2,267.43	1/2	2,630.17	1/2	2,992.90	1/2	3,355.64	1/2	3,668.06	1/2	3,921.70	1/2	4,175.33	1/2	4,428.96	1/2	4,670.44
3/4	96.54	3/4	458.89	3/4	823.49	3/4	1,186.78	3/4	1,549.52	3/4	1,912.25	3/4	2,274.99	3/4	2,637.73	3/4	3,000.46	3/4	3,363.20	3/4	3,673.35	3/4	3,926.98	3/4	4,180.61	3/4	4,434.24	3/4	4,673.76
5	103.91	5	466.50	5	831.06	5	1,194.34	5	1,557.08	5	1,919.81	5	2,282.55	5	2,645.28	5	3,008.02	5	3,370.75	5	3,678.63	5	3,932.26	5	4,185.90	5	4,439.53	5	4,676.31
1/4	111.28	1/4	474.11	1/4	838.64	1/4	1,201.90	1/4	1,564.63	1/4	1,927.37	1/4	2,290.10	1/4	2,652.84	1/4	3,015.58	1/4	3,378.31	1/4	3,683.92	1/4	3,937.55	1/4	4,191.18	1/4	4,444.81	1/4	4,678.85
1/2	118.65	1/2	481.72	1/2	846.22	1/2	1,209.45	1/2	1,572.19	1/2	1,934.93	1/2	2,297.66	1/2	2,660.40	1/2	3,023.13	1/2	3,385.87	1/2	3,689.20	1/2	3,942.83	1/2	4,196.46	1/2	4,450.10	1/2	4,681.39
3/4	126.02	3/4	489.33	3/4	853.79	3/4	1,217.01	3/4	1,579.75	3/4	1,942.48	3/4	2,305.22	3/4	2,667.95	3/4	3,030.69	3/4	3,393.43	3/4	3,694.48	3/4	3,948.12	3/4	4,201.75	3/4	4,455.38	3/4	4,683.93
6	133.39	6	496.94	6	861.37	6	1,224.57	6	1,587.30	6	1,950.04	6	2,312.78	6	2,675.51	6	3,038.25	6	3,400.98	6	3,699.77	6	3,953.40	6	4,207.03	6	4,460.66	6	4,685.69
1/4	140.76	1/4	504.55	1/4	868.95	1/4	1,232.12	1/4	1,594.86	1/4	1,957.60	1/4	2,320.33	1/4	2,683.07	1/4	3,045.80	1/4	3,408.54	1/4	3,705.05	1/4	3,958.68	1/4	4,212.32	1/4	4,465.95	1/4	4,687.45
1/2	148.13	1/2	512.16	1/2	876.53	1/2	1,239.68	1/2	1,602.42	1/2	1,965.15	1/2	2,327.89	1/2	2,690.62	1/2	3,053.36	1/2	3,416.10	1/2	3,710.34	1/2	3,963.97	1/2	4,217.60	1/2	4,471.23	1/2	4,689.22
3/4	155.49	3/4	519.77	3/4	884.10	3/4	1,247.24	3/4	1,609.97	3/4	1,972.71	3/4	2,335.45	3/4	2,698.18	3/4	3,060.92	3/4	3,423.65	3/4	3,715.62	3/4	3,969.25	3/4	4,222.88	3/4	4,476.52	3/4	4,690.98
7	162.86	7	527.38	7	891.68	7	1,254.80	7	1,617.53	7	1,980.27	7	2,343.00	7	2,705.74	7	3,068.47	7	3,431.21	7	3,720.90	7	3,974.54	7	4,228.17	7	4,481.80	7	4,691.95
1/4	170.23	1/4	534.98	1/4	899.26	1/4	1,262.35	1/4	1,625.09	1/4	1,987.82	1/4	2,350.56	1/4	2,713.30	1/4	3,076.03	1/4	3,438.77	1/4	3,726.19	1/4	3,979.82	1/4	4,233.45	1/4	4,487.08	1/4	4,692.93
1/2	177.60	1/2	542.59	1/2	906.83	1/2	1,269.91	1/2	1,632.65	1/2	1,995.38	1/2	2,358.12	1/2	2,720.85	1/2	3,083.59	1/2	3,446.32	1/2	3,731.47	1/2	3,985.10	1/2	4,238.74	1/2	4,492.37	1/2	4,693.90
3/4	184.97	3/4	550.20	3/4	914.41	3/4	1,277.47	3/4	1,640.20	3/4	2,002.94	3/4	2,365.67	3/4	2,728.41	3/4	3,091.15	3/4	3,453.77	3/4	3,736.76	3/4	3,990.39	3/4	4,244.02	3/4	4,497.65	3/4	4,694.88
8	192.58	8	557.81	8	921.99	8	1,285.02	8	1,647.76	8	2,010.50	8	2,373.23	8	2,735.97	8	3,098.70	8	3,461.22	8	3,742.04	8	3,995.67	8	4,249.30	8	4,502.94	8	4,695.17
1/4	200.19	1/4	565.42	1/4	929.56	1/4	1,292.58	1/4	1,655.32	1/4	2,018.05	1/4	2,380.79	1/4	2,743.52	1/4	3,106.26	1/4	3,468.67	1/4	3,747.32	1/4	4,000.96	1/4	4,254.59	1/4	4,508.22	1/4	4,695.46
1/2	207.80	1/2	573.03	1/2	937.14	1/2	1,300.14	1/2	1,662.87	1/2	2,025.																		



BARGE "HFL-435" HINES FURLONG LINE

INNAGE TABLE

3 PORT OR STAR

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

HULL NO. 4859

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.		10 FT.		11 FT.		12 FT.		13 FT.		14 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0	1.36	0	314.32	0	679.52	0	1,043.20	0	1,405.94	0	1,768.67	0	2,131.41	0	2,494.14	0	2,856.88	0	3,219.61	0	3,569.28	0	3,826.58	0	4,080.22	0	4,333.85	0	4,587.48
1/4	2.44	1/4	321.93	1/4	687.10	1/4	1,050.76	1/4	1,413.49	1/4	1,776.23	1/4	2,138.96	1/4	2,501.70	1/4	2,864.44	1/4	3,227.17	1/4	3,575.35	1/4	3,831.87	1/4	4,085.50	1/4	4,339.13	1/4	4,592.76
1/2	3.51	1/2	329.54	1/2	694.68	1/2	1,058.31	1/2	1,421.05	1/2	1,783.79	1/2	2,146.52	1/2	2,509.26	1/2	2,871.99	1/2	3,234.73	1/2	3,581.41	1/2	3,837.15	1/2	4,090.78	1/2	4,344.42	1/2	4,598.05
3/4	4.59	3/4	337.15	3/4	702.25	3/4	1,065.87	3/4	1,428.61	3/4	1,791.34	3/4	2,154.08	3/4	2,516.81	3/4	2,879.55	3/4	3,242.29	3/4	3,587.12	3/4	3,842.44	3/4	4,096.07	3/4	4,349.70	3/4	4,603.33
1	7.92	1	344.76	1	709.83	1	1,073.43	1	1,436.16	1	1,798.90	1	2,161.64	1	2,524.37	1	2,887.11	1	3,249.84	1	3,592.84	1	3,847.72	1	4,101.35	1	4,354.98	1	4,608.62
1/4	11.25	1/4	352.37	1/4	717.41	1/4	1,080.98	1/4	1,443.72	1/4	1,806.46	1/4	2,169.19	1/4	2,531.93	1/4	2,894.66	1/4	3,257.40	1/4	3,598.56	1/4	3,853.00	1/4	4,106.64	1/4	4,360.27	1/4	4,613.90
1/2	14.58	1/2	359.98	1/2	724.99	1/2	1,088.54	1/2	1,451.28	1/2	1,814.01	1/2	2,176.75	1/2	2,539.48	1/2	2,902.22	1/2	3,264.96	1/2	3,604.27	1/2	3,858.29	1/2	4,111.92	1/2	4,365.55	1/2	4,619.18
3/4	17.91	3/4	367.59	3/4	732.56	3/4	1,096.10	3/4	1,458.83	3/4	1,821.57	3/4	2,184.31	3/4	2,547.04	3/4	2,909.78	3/4	3,272.51	3/4	3,609.68	3/4	3,863.57	3/4	4,117.20	3/4	4,370.84	3/4	4,624.47
2	23.10	2	375.20	2	740.14	2	1,103.66	2	1,466.39	2	1,829.13	2	2,191.86	2	2,554.60	2	2,917.33	2	3,280.07	2	3,615.10	2	3,868.86	2	4,122.49	2	4,376.12	2	4,629.36
1/4	28.29	1/4	382.80	1/4	747.72	1/4	1,111.21	1/4	1,473.95	1/4	1,836.68	1/4	2,199.42	1/4	2,562.16	1/4	2,924.89	1/4	3,287.63	1/4	3,620.51	1/4	3,874.14	1/4	4,127.77	1/4	4,381.40	1/4	4,634.25
1/2	33.48	1/2	390.41	1/2	755.29	1/2	1,118.77	1/2	1,481.51	1/2	1,844.24	1/2	2,206.98	1/2	2,569.71	1/2	2,932.45	1/2	3,295.18	1/2	3,625.79	1/2	3,879.42	1/2	4,133.06	1/2	4,386.69	1/2	4,639.14
3/4	38.68	3/4	398.02	3/4	762.87	3/4	1,126.33	3/4	1,489.06	3/4	1,851.80	3/4	2,214.53	3/4	2,577.27	3/4	2,940.01	3/4	3,302.74	3/4	3,631.08	3/4	3,884.71	3/4	4,138.34	3/4	4,391.97	3/4	4,644.03
3	45.50	3	405.63	3	770.45	3	1,133.88	3	1,496.62	3	1,859.36	3	2,222.09	3	2,584.83	3	2,947.56	3	3,310.30	3	3,636.36	3	3,889.99	3	4,143.62	3	4,397.26	3	4,648.14
1/4	52.33	1/4	413.24	1/4	778.02	1/4	1,141.44	1/4	1,504.18	1/4	1,866.91	1/4	2,229.65	1/4	2,592.38	1/4	2,955.12	1/4	3,317.86	1/4	3,641.64	1/4	3,895.28	1/4	4,148.91	1/4	4,402.54	1/4	4,652.25
1/2	59.70	1/2	420.85	1/2	785.60	1/2	1,149.00	1/2	1,511.73	1/2	1,874.47	1/2	2,237.21	1/2	2,599.94	1/2	2,962.68	1/2	3,325.41	1/2	3,646.93	1/2	3,900.56	1/2	4,154.19	1/2	4,407.82	1/2	4,656.36
3/4	67.07	3/4	428.46	3/4	793.18	3/4	1,156.55	3/4	1,519.29	3/4	1,882.03	3/4	2,247.76	3/4	2,607.50	3/4	2,970.23	3/4	3,332.97	3/4	3,652.21	3/4	3,905.84	3/4	4,159.48	3/4	4,413.11	3/4	4,660.46
4	74.44	4	436.07	4	800.76	4	1,164.11	4	1,526.85	4	1,889.58	4	2,252.32	4	2,615.05	4	2,977.79	4	3,340.53	4	3,657.50	4	3,911.13	4	4,164.76	4	4,418.39	4	4,663.79
1/4	81.80	1/4	443.68	1/4	808.33	1/4	1,171.67	1/4	1,534.40	1/4	1,897.14	1/4	2,259.88	1/4	2,622.61	1/4	2,985.35	1/4	3,348.08	1/4	3,662.78	1/4	3,916.41	1/4	4,170.04	1/4	4,423.68	1/4	4,667.11
1/2	89.17	1/2	451.29	1/2	815.91	1/2	1,179.23	1/2	1,541.96	1/2	1,904.70	1/2	2,267.43	1/2	2,630.17	1/2	2,992.90	1/2	3,355.64	1/2	3,668.06	1/2	3,921.70	1/2	4,175.33	1/2	4,428.96	1/2	4,670.44
3/4	96.54	3/4	458.89	3/4	823.49	3/4	1,186.78	3/4	1,549.52	3/4	1,912.25	3/4	2,274.99	3/4	2,637.73	3/4	3,000.46	3/4	3,363.20	3/4	3,673.35	3/4	3,926.98	3/4	4,180.61	3/4	4,434.24	3/4	4,673.76
5	103.91	5	466.50	5	831.06	5	1,194.34	5	1,557.08	5	1,919.81	5	2,282.55	5	2,645.28	5	3,008.02	5	3,370.75	5	3,678.63	5	3,932.26	5	4,185.90	5	4,439.53	5	4,676.31
1/4	111.28	1/4	474.11	1/4	838.64	1/4	1,201.90	1/4	1,564.63	1/4	1,927.37	1/4	2,290.10	1/4	2,652.84	1/4	3,015.58	1/4	3,378.31	1/4	3,683.92	1/4	3,937.55	1/4	4,191.18	1/4	4,444.81	1/4	4,678.85
1/2	118.65	1/2	481.72	1/2	846.22	1/2	1,209.45	1/2	1,572.19	1/2	1,934.93	1/2	2,297.66	1/2	2,660.40	1/2	3,023.13	1/2	3,385.87	1/2	3,689.20	1/2	3,942.83	1/2	4,196.46	1/2	4,450.10	1/2	4,681.39
3/4	126.02	3/4	489.33	3/4	853.79	3/4	1,217.01	3/4	1,579.75	3/4	1,942.48	3/4	2,305.22	3/4	2,667.95	3/4	3,030.69	3/4	3,393.43	3/4	3,694.48	3/4	3,948.12	3/4	4,201.75	3/4	4,455.38	3/4	4,683.93
6	133.39	6	496.94	6	861.37	6	1,224.57	6	1,587.30	6	1,950.04	6	2,312.78	6	2,675.51	6	3,038.25	6	3,400.98	6	3,699.77	6	3,953.40	6	4,207.03	6	4,460.66	6	4,685.69
1/4	140.76	1/4	504.55	1/4	868.95	1/4	1,232.12	1/4	1,594.86	1/4	1,957.60	1/4	2,320.33	1/4	2,683.07	1/4	3,045.80	1/4	3,408.54	1/4	3,705.05	1/4	3,958.68	1/4	4,212.32	1/4	4,465.95	1/4	4,687.45
1/2	148.13	1/2	512.16	1/2	876.53	1/2	1,239.68	1/2	1,602.42	1/2	1,965.15	1/2	2,327.89	1/2	2,690.62	1/2	3,053.36	1/2	3,416.10	1/2	3,710.34	1/2	3,963.97	1/2	4,217.60	1/2	4,471.23	1/2	4,689.22
3/4	155.49	3/4	519.77	3/4	884.10	3/4	1,247.24	3/4	1,609.97	3/4	1,972.71	3/4	2,335.45	3/4	2,698.18	3/4	3,060.92	3/4	3,423.65	3/4	3,715.62	3/4	3,969.25	3/4	4,222.88	3/4	4,476.52	3/4	4,690.98
7	162.86	7	527.38	7	891.68	7	1,254.80	7	1,617.53	7	1,980.27	7	2,343.00	7	2,705.74	7	3,068.47	7	3,431.21	7	3,720.90	7	3,974.54	7	4,228.17	7	4,481.80	7	4,691.95
1/4	170.23	1/4	534.98	1/4	899.26	1/4	1,262.35	1/4	1,625.09	1/4	1,987.82	1/4	2,350.56	1/4	2,713.30	1/4	3,076.03	1/4	3,438.77	1/4	3,726.19	1/4	3,979.82	1/4	4,233.45	1/4	4,487.08	1/4	4,692.93
1/2	177.60	1/2	542.59	1/2	906.83	1/2	1,269.91	1/2	1,632.65	1/2	1,995.38	1/2	2,358.12	1/2	2,720.85	1/2	3,083.59	1/2	3,446.32	1/2	3,731.47	1/2	3,985.10	1/2	4,238.74	1/2	4,492.37	1/2	4,693.90
3/4	184.97	3/4	550.20	3/4	914.41	3/4	1,277.47	3/4	1,640.20	3/4	2,002.94	3/4	2,365.67	3/4	2,728.41	3/4	3,091.15	3/4	3,453.77	3/4	3,736.76	3/4	3,990.39	3/4	4,244.02	3/4	4,497.65	3/4	4,694.88
8	192.58	8	557.81	8	921.99	8	1,285.02	8	1,647.76	8	2,010.50	8	2,373.23	8	2,735.97	8	3,098.70	8	3,461.22	8	3,742.04	8	3,995.67	8	4,249.30	8	4,502.94	8	4,695.17
1/4	200.19	1/4	565.42	1/4	929.56	1/4	1,292.58	1/4	1,655.32	1/4	2,018.05	1/4	2,380.79	1/4	2,743.52	1/4	3,106.26	1/4	3,468.67	1/4	3,747.32	1/4	4,000.96	1/4	4,254.59	1/4	4,508.22	1/4	4,695.46
1/2	207.80	1/2	573.03	1/2	937.14	1/2	1,300.14	1/2	1,662.87	1/2	2,025.																		



BARGE "HFL-435" HINES FURLONG LINE

INNAGE TABLE

2 PORT OR STAR

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

HULL NO. 4859

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.		10 FT.		11 FT.		12 FT.		13 FT.		14 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0	1.30	0	301.58	0	661.91	0	1,022.25	0	1,382.58	0	1,742.92	0	2,103.26	0	2,463.59	0	2,823.93	0	3,184.26	0	3,544.60	0	3,904.94	0	4,265.27	0	4,625.61	0	4,971.71
1/4	2.33	1/4	309.08	1/4	669.42	1/4	1,029.75	1/4	1,390.09	1/4	1,750.43	1/4	2,110.76	1/4	2,471.10	1/4	2,831.43	1/4	3,191.77	1/4	3,552.11	1/4	3,912.44	1/4	4,272.78	1/4	4,633.11	1/4	4,978.85
1/2	3.35	1/2	316.59	1/2	676.92	1/2	1,037.26	1/2	1,397.60	1/2	1,757.93	1/2	2,118.27	1/2	2,478.61	1/2	2,838.94	1/2	3,199.28	1/2	3,559.61	1/2	3,919.95	1/2	4,280.29	1/2	4,640.62	1/2	4,985.99
3/4	4.38	3/4	324.10	3/4	684.43	3/4	1,044.77	3/4	1,405.10	3/4	1,765.44	3/4	2,125.78	3/4	2,486.11	3/4	2,846.45	3/4	3,206.78	3/4	3,567.12	3/4	3,927.46	3/4	4,287.79	3/4	4,648.13	3/4	4,993.13
1	7.46	1	331.60	1	691.94	1	1,052.28	1	1,412.61	1	1,772.95	1	2,133.28	1	2,493.62	1	2,853.96	1	3,214.29	1	3,574.63	1	3,934.96	1	4,295.30	1	4,655.63	1	5,000.28
1/4	10.54	1/4	339.11	1/4	699.45	1/4	1,059.78	1/4	1,420.12	1/4	1,780.45	1/4	2,140.79	1/4	2,501.13	1/4	2,861.46	1/4	3,221.80	1/4	3,582.13	1/4	3,942.47	1/4	4,303.11	1/4	4,663.14	1/4	5,007.42
1/2	13.62	1/2	346.62	1/2	706.95	1/2	1,067.29	1/2	1,427.63	1/2	1,787.96	1/2	2,148.30	1/2	2,508.63	1/2	2,868.97	1/2	3,229.31	1/2	3,589.64	1/2	3,949.98	1/2	4,310.31	1/2	4,670.65	1/2	5,014.56
3/4	16.70	3/4	354.12	3/4	714.46	3/4	1,074.80	3/4	1,435.13	3/4	1,795.47	3/4	2,155.80	3/4	2,516.14	3/4	2,876.48	3/4	3,236.81	3/4	3,597.15	3/4	3,957.48	3/4	4,318.12	3/4	4,678.16	3/4	5,021.70
2	21.59	2	361.63	2	721.97	2	1,082.30	2	1,442.64	2	1,802.98	2	2,163.31	2	2,523.65	2	2,883.98	2	3,244.32	2	3,604.66	2	3,964.99	2	4,325.33	2	4,685.66	2	5,028.31
1/4	26.48	1/4	369.14	1/4	729.47	1/4	1,089.81	1/4	1,450.15	1/4	1,810.48	1/4	2,170.82	1/4	2,531.15	1/4	2,891.49	1/4	3,251.83	1/4	3,612.16	1/4	3,972.50	1/4	4,333.83	1/4	4,693.17	1/4	5,034.91
1/2	31.38	1/2	376.65	1/2	736.98	1/2	1,097.32	1/2	1,457.65	1/2	1,817.99	1/2	2,178.33	1/2	2,538.66	1/2	2,899.00	1/2	3,259.33	1/2	3,619.67	1/2	3,980.01	1/2	4,340.34	1/2	4,700.31	1/2	5,041.52
3/4	36.27	3/4	384.15	3/4	744.49	3/4	1,104.82	3/4	1,465.16	3/4	1,825.50	3/4	2,185.83	3/4	2,546.17	3/4	2,906.50	3/4	3,266.84	3/4	3,627.18	3/4	3,987.51	3/4	4,347.85	3/4	4,707.45	3/4	5,048.13
3	42.71	3	391.66	3	751.99	3	1,112.33	3	1,472.67	3	1,833.00	3	2,193.34	3	2,553.68	3	2,914.01	3	3,274.35	3	3,634.68	3	3,995.02	3	4,355.36	3	4,716.00	3	5,053.72
1/4	49.14	1/4	399.17	1/4	759.50	1/4	1,119.84	1/4	1,480.17	1/4	1,840.51	1/4	2,200.85	1/4	2,561.18	1/4	2,921.52	1/4	3,281.85	1/4	3,642.19	1/4	4,002.53	1/4	4,362.86	1/4	4,721.74	1/4	5,059.31
1/2	56.08	1/2	406.67	1/2	767.01	1/2	1,127.35	1/2	1,487.68	1/2	1,848.02	1/2	2,208.35	1/2	2,568.69	1/2	2,929.03	1/2	3,289.36	1/2	3,649.70	1/2	4,010.03	1/2	4,370.37	1/2	4,728.88	1/2	5,064.90
3/4	63.01	3/4	414.18	3/4	774.52	3/4	1,134.85	3/4	1,495.19	3/4	1,855.52	3/4	2,215.86	3/4	2,576.20	3/4	2,936.53	3/4	3,296.87	3/4	3,657.20	3/4	4,017.54	3/4	4,377.88	3/4	4,736.02	3/4	5,070.49
4	69.95	4	421.69	4	782.02	4	1,142.36	4	1,502.70	4	1,863.03	4	2,223.37	4	2,583.70	4	2,944.04	4	3,304.38	4	3,664.71	4	4,025.05	4	4,385.38	4	4,743.16	4	5,075.02
1/4	76.88	1/4	429.19	1/4	789.53	1/4	1,149.87	1/4	1,510.20	1/4	1,870.54	1/4	2,230.87	1/4	2,591.21	1/4	2,951.55	1/4	3,311.88	1/4	3,672.22	1/4	4,032.55	1/4	4,392.89	1/4	4,750.31	1/4	5,079.55
1/2	83.81	1/2	436.70	1/2	797.04	1/2	1,157.37	1/2	1,517.71	1/2	1,878.05	1/2	2,238.38	1/2	2,598.72	1/2	2,959.05	1/2	3,319.39	1/2	3,679.73	1/2	4,040.06	1/2	4,400.40	1/2	4,757.45	1/2	5,084.07
3/4	90.75	3/4	444.21	3/4	804.54	3/4	1,164.88	3/4	1,525.22	3/4	1,885.55	3/4	2,245.89	3/4	2,606.22	3/4	2,966.56	3/4	3,326.90	3/4	3,687.23	3/4	4,047.57	3/4	4,407.90	3/4	4,764.59	3/4	5,088.60
5	97.68	5	451.72	5	812.05	5	1,172.39	5	1,532.72	5	1,893.06	5	2,253.40	5	2,613.73	5	2,974.07	5	3,334.40	5	3,694.74	5	4,055.08	5	4,415.41	5	4,771.73	5	5,092.06
1/4	104.62	1/4	459.22	1/4	819.56	1/4	1,179.89	1/4	1,540.23	1/4	1,900.57	1/4	2,260.90	1/4	2,621.24	1/4	2,981.57	1/4	3,341.91	1/4	3,702.25	1/4	4,062.58	1/4	4,422.92	1/4	4,778.87	1/4	5,095.52
1/2	111.55	1/2	466.73	1/2	827.06	1/2	1,187.40	1/2	1,547.74	1/2	1,908.07	1/2	2,268.41	1/2	2,628.75	1/2	2,989.08	1/2	3,349.42	1/2	3,709.75	1/2	4,070.09	1/2	4,430.43	1/2	4,786.02	1/2	5,098.98
3/4	118.48	3/4	474.24	3/4	834.57	3/4	1,194.91	3/4	1,555.24	3/4	1,915.58	3/4	2,275.92	3/4	2,636.25	3/4	2,996.59	3/4	3,356.92	3/4	3,717.26	3/4	4,077.60	3/4	4,437.93	3/4	4,793.16	3/4	5,102.44
6	125.42	6	481.74	6	842.08	6	1,202.42	6	1,562.75	6	1,923.09	6	2,283.42	6	2,643.76	6	3,004.10	6	3,364.43	6	3,724.77	6	4,085.10	6	4,445.44	6	4,800.30	6	5,104.83
1/4	132.35	1/4	489.25	1/4	849.59	1/4	1,209.92	1/4	1,570.26	1/4	1,930.59	1/4	2,290.93	1/4	2,651.27	1/4	3,011.60	1/4	3,371.94	1/4	3,732.27	1/4	4,092.61	1/4	4,452.95	1/4	4,807.44	1/4	5,107.23
1/2	139.29	1/2	496.76	1/2	857.09	1/2	1,217.43	1/2	1,577.77	1/2	1,938.10	1/2	2,298.44	1/2	2,658.77	1/2	3,019.11	1/2	3,379.45	1/2	3,739.78	1/2	4,100.12	1/2	4,460.45	1/2	4,814.58	1/2	5,109.62
3/4	146.22	3/4	504.26	3/4	864.60	3/4	1,224.94	3/4	1,585.27	3/4	1,945.61	3/4	2,305.94	3/4	2,666.28	3/4	3,026.62	3/4	3,386.95	3/4	3,747.29	3/4	4,107.62	3/4	4,467.96	3/4	4,821.73	3/4	5,112.01
7	153.15	7	511.77	7	872.11	7	1,232.44	7	1,592.78	7	1,953.12	7	2,313.45	7	2,673.79	7	3,034.12	7	3,394.46	7	3,754.80	7	4,115.13	7	4,475.47	7	4,828.87	7	5,113.34
1/4	160.09	1/4	519.28	1/4	879.61	1/4	1,239.95	1/4	1,600.29	1/4	1,960.62	1/4	2,320.96	1/4	2,681.29	1/4	3,041.63	1/4	3,401.97	1/4	3,762.30	1/4	4,122.64	1/4	4,482.97	1/4	4,836.01	1/4	5,114.67
1/2	167.02	1/2	526.79	1/2	887.12	1/2	1,247.46	1/2	1,607.79	1/2	1,968.13	1/2	2,328.47	1/2	2,688.80	1/2	3,049.14	1/2	3,409.47	1/2	3,769.81	1/2	4,130.15	1/2	4,490.48	1/2	4,843.15	1/2	5,116.00
3/4	173.96	3/4	534.29	3/4	894.63	3/4	1,254.96	3/4	1,615.30	3/4	1,975.64	3/4	2,335.97	3/4	2,696.31	3/4	3,056.64	3/4	3,416.98	3/4	3,777.32	3/4	4,137.65	3/4	4,497.99	3/4	4,850.29	3/4	5,117.33
8	181.46	8	541.80	8	902.13	8	1,262.47	8	1,622.81	8	1,983.14	8	2,343.48	8	2,703.82	8	3,064.15	8	3,424.49	8	3,784.82	8	4,145.16	8	4,505.50	8	4,857.44	8	5,117.72
1/4	188.97	1/4	549.31	1/4	909.64	1/4	1,269.98	1/4	1,630.31	1/4	1,990.65	1/4	2,350.99	1/4	2,711.32	1/4	3,071.66	1/4	3,431.99	1/4	3,792.33	1/4	4,152.67	1/4	4,513.00	1/4	4,864.58	1/4	5,118.12
1/2	196.48	1/2	556.81	1/2	917.15	1/2	1,277.49	1/2	1,637.82	1/2	1,998.1																		



**BARGE "HFL-435"
HINES FURLONG LINE
OUTAGE TABLE**

2 PORT OR STAR

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

HULL NO. 4859

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.		10 FT.		11 FT.		12 FT.		13 FT.		14 FT.			
0		0		0	5,053.72	0	4,714.60	0	4,355.36	0	3,995.02	0	3,634.68	0	3,274.35	0	2,914.01	0	2,553.68	0	2,193.34	0	1,833.00	0	1,472.67	0	1,112.33				
1/4	1/4	1/4	1/4	1/4	5,048.13	1/4	4,707.45	1/4	4,347.85	1/4	3,987.51	1/4	3,627.18	1/4	3,266.84	1/4	2,906.50	1/4	2,546.17	1/4	2,185.83	1/4	1,825.50	1/4	1,465.16	1/4	1,104.82				
1/2	1/2	1/2	1/2	1/2	5,041.52	1/2	4,700.31	1/2	4,340.34	1/2	3,980.01	1/2	3,619.67	1/2	3,259.33	1/2	2,899.00	1/2	2,538.66	1/2	2,178.33	1/2	1,817.99	1/2	1,457.65	1/2	1,097.32				
3/4	3/4	3/4	3/4	3/4	5,034.91	3/4	4,693.17	3/4	4,332.83	3/4	3,972.50	3/4	3,612.16	3/4	3,251.83	3/4	2,891.49	3/4	2,531.15	3/4	2,170.82	3/4	1,810.48	3/4	1,450.15	3/4	1,089.81				
1		1		1	5,028.31	1	4,685.66	1	4,325.33	1	3,964.99	1	3,604.66	1	3,244.32	1	2,883.98	1	2,523.65	1	2,163.31	1	1,802.98	1	1,442.64	1	1,082.30				
1/4	1/4	1/4	1/4	1/4	5,021.70	1/4	4,678.16	1/4	4,317.82	1/4	3,957.48	1/4	3,597.15	1/4	3,236.81	1/4	2,876.48	1/4	2,516.14	1/4	2,155.80	1/4	1,795.47	1/4	1,435.13	1/4	1,074.80				
1/2	1/2	1/2	1/2	1/2	5,014.56	1/2	4,670.65	1/2	4,310.31	1/2	3,949.98	1/2	3,589.64	1/2	3,229.31	1/2	2,868.97	1/2	2,508.63	1/2	2,148.30	1/2	1,787.96	1/2	1,427.63	1/2	1,067.29				
3/4	3/4	3/4	3/4	3/4	5,007.42	3/4	4,663.14	3/4	4,302.81	3/4	3,942.47	3/4	3,582.13	3/4	3,221.80	3/4	2,861.46	3/4	2,501.13	3/4	2,140.79	3/4	1,780.45	3/4	1,420.12	3/4	1,059.78				
2		2		2	5,000.28	2	4,655.64	2	4,295.30	2	3,934.96	2	3,574.63	2	3,214.29	2	2,853.96	2	2,493.62	2	2,133.28	2	1,772.95	2	1,412.61	2	1,052.28				
1/4	1/4	1/4	1/4	1/4	4,993.13	1/4	4,648.13	1/4	4,287.79	1/4	3,927.46	1/4	3,567.12	1/4	3,206.78	1/4	2,846.45	1/4	2,486.11	1/4	2,125.78	1/4	1,765.44	1/4	1,405.10	1/4	1,044.77				
1/2	1/2	1/2	1/2	1/2	4,985.99	1/2	4,640.62	1/2	4,280.29	1/2	3,919.95	1/2	3,559.61	1/2	3,199.28	1/2	2,838.94	1/2	2,478.61	1/2	2,118.27	1/2	1,757.93	1/2	1,397.60	1/2	1,037.26				
3/4	3/4	3/4	3/4	3/4	4,978.85	3/4	4,633.11	3/4	4,272.78	3/4	3,912.44	3/4	3,552.11	3/4	3,191.77	3/4	2,831.43	3/4	2,471.10	3/4	2,110.76	3/4	1,750.43	3/4	1,390.09	3/4	1,029.75				
3		3		3	4,971.71	3	4,625.61	3	4,265.27	3	3,904.94	3	3,544.60	3	3,184.26	3	2,823.93	3	2,463.59	3	2,103.26	3	1,742.92	3	1,382.58	3	1,022.25				
1/4	1/4	1/4	1/4	1/4	4,964.57	1/4	4,618.10	1/4	4,257.76	1/4	3,897.43	1/4	3,537.09	1/4	3,176.76	1/4	2,816.42	1/4	2,456.08	1/4	2,095.75	1/4	1,735.41	1/4	1,375.08	1/4	1,014.74				
1/2	1/2	1/2	1/2	1/2	4,957.42	1/2	4,610.59	1/2	4,250.26	1/2	3,889.92	1/2	3,529.59	1/2	3,169.25	1/2	2,808.91	1/2	2,448.58	1/2	2,088.24	1/2	1,727.91	1/2	1,367.57	1/2	1,007.23				
3/4	3/4	3/4	3/4	3/4	4,950.28	3/4	4,603.09	3/4	4,242.75	3/4	3,882.41	3/4	3,522.08	3/4	3,161.74	3/4	2,801.41	3/4	2,441.07	3/4	2,080.73	3/4	1,720.40	3/4	1,360.06	3/4	999.73				
4		4		4	4,943.14	4	4,595.58	4	4,235.24	4	3,874.91	4	3,514.57	4	3,154.24	4	2,793.90	4	2,433.56	4	2,073.23	4	1,712.89	4	1,352.56	4	992.22				
1/4	1/4	1/4	1/4	1/4	4,936.00	1/4	4,588.07	1/4	4,227.74	1/4	3,867.40	1/4	3,507.06	1/4	3,146.73	1/4	2,786.39	1/4	2,426.06	1/4	2,065.72	1/4	1,705.38	1/4	1,345.05	1/4	984.71				
1/2	1/2	1/2	1/2	1/2	4,928.86	1/2	4,580.57	1/2	4,220.23	1/2	3,859.89	1/2	3,499.56	1/2	3,139.22	1/2	2,778.89	1/2	2,418.55	1/2	2,058.21	1/2	1,697.88	1/2	1,337.54	1/2	977.21				
3/4	3/4	3/4	3/4	3/4	4,921.71	3/4	4,573.06	3/4	4,212.72	3/4	3,852.39	3/4	3,492.05	3/4	3,131.71	3/4	2,771.38	3/4	2,411.04	3/4	2,050.71	3/4	1,690.37	3/4	1,330.03	3/4	969.70				
5		5		5	4,914.57	5	4,565.55	5	4,205.22	5	3,844.88	5	3,484.54	5	3,124.21	5	2,763.87	5	2,403.54	5	2,043.20	5	1,682.86	5	1,322.53	5	962.19				
1/4	1/4	1/4	1/4	1/4	4,907.43	1/4	4,558.04	1/4	4,197.71	1/4	3,837.37	1/4	3,477.04	1/4	3,116.70	1/4	2,756.36	1/4	2,396.03	1/4	2,035.69	1/4	1,675.36	1/4	1,315.02	1/4	954.68				
1/2	1/2	1/2	1/2	1/2	4,900.29	1/2	4,550.54	1/2	4,190.20	1/2	3,829.87	1/2	3,469.53	1/2	3,109.19	1/2	2,748.86	1/2	2,388.52	1/2	2,028.19	1/2	1,667.85	1/2	1,307.51	1/2	947.18				
3/4	3/4	3/4	3/4	3/4	4,893.15	3/4	4,543.03	3/4	4,182.69	3/4	3,822.36	3/4	3,462.02	3/4	3,101.69	3/4	2,741.35	3/4	2,381.01	3/4	2,020.68	3/4	1,660.34	3/4	1,300.01	3/4	939.67				
6		6		6	4,886.00	6	4,535.52	6	4,175.19	6	3,814.85	6	3,454.52	6	3,094.18	6	2,733.84	6	2,373.51	6	2,013.17	6	1,652.84	6	1,292.50	6	932.16				
1/4	1/4	1/4	1/4	1/4	4,878.86	1/4	4,528.02	1/4	4,167.68	1/4	3,807.34	1/4	3,447.01	1/4	3,086.67	1/4	2,726.34	1/4	2,366.00	1/4	2,005.66	1/4	1,645.33	1/4	1,284.99	1/4	924.66				
1/2	1/2	1/2	1/2	1/2	5,118.52	1/2	4,871.72	1/2	4,520.51	1/2	4,160.17	1/2	3,799.84	1/2	3,439.50	1/2	3,079.17	1/2	2,718.83	1/2	2,358.49	1/2	1,998.16	1/2	1,637.82	1/2	1,277.49	1/2	917.15		
3/4	3/4	3/4	3/4	3/4	5,118.12	3/4	4,864.58	3/4	4,513.00	3/4	4,152.67	3/4	3,792.33	3/4	3,431.99	3/4	3,071.66	3/4	2,711.32	3/4	2,350.99	3/4	1,990.65	3/4	1,630.31	3/4	1,269.98	3/4	909.64		
7		7		7	5,117.72	7	4,857.44	7	4,505.50	7	4,145.16	7	3,784.82	7	3,424.49	7	3,064.15	7	2,703.82	7	2,343.48	7	1,983.14	7	1,622.81	7	1,262.47	7	902.14		
1/4	1/4	1/4	1/4	1/4	5,117.33	1/4	4,850.29	1/4	4,497.99	1/4	4,137.65	1/4	3,777.32	1/4	3,416.98	1/4	3,056.64	1/4	2,696.31	1/4	2,335.97	1/4	1,975.64	1/4	1,615.30	1/4	1,254.96	1/4	894.63		
1/2	1/2	1/2	1/2	1/2	5,116.00	1/2	4,843.15	1/2	4,490.48	1/2	4,130.15	1/2	3,769.81	1/2	3,409.47	1/2	3,049.14	1/2	2,688.80	1/2	2,328.47	1/2	1,968.13	1/2	1,607.79	1/2	1,247.46	1/2	887.12		
3/4	3/4	3/4	3/4	3/4	5,114.67	3/4	4,836.01	3/4	4,482.97	3/4	4,122.64	3/4	3,762.30	3/4	3,401.97	3/4	3,041.63	3/4	2,681.29	3/4	2,320.96	3/4	1,960.62	3/4	1,600.29	3/4	1,239.95	3/4	879.61		
8		8		8	5,113.34	8	4,828.87	8	4,475.47	8	4,115.13	8	3,754.80	8	3,394.46	8	3,034.12	8	2,673.79	8	2,313.45	8	1,953.12	8	1,592.78	8	1,232.44	8	872.11		
1/4	1/4	1/4	1/4	1/4	5,112.01	1/4	4,821.73	1/4	4,467.96	1/4	4,107.62	1/4	3,747.29	1/4	3,386.95	1/4	3,026.62	1/4	2,666.28	1/4	2,305.94	1/4	1,945.61	1/4	1,585.27	1/4	1,224.94	1/4	864.60		
1/2	1/2	1/2	1/2	1/2	5,109.62	1/2	4,814.58	1/2	4,460.45	1/2	4,100.12	1/2	3,739.78	1/2	3,379.45	1/2	3,019.11	1/2	2,658.77	1/2	2,298.44	1/2	1,938.10	1/2	1,577.77	1/2	1,217.43	1/2	857.09		
3/4	3/4	3/4	3/4	3/4	5,107.23	3/4	4,807.44	3/4	4,452.95	3/4	4,092.61	3/4	3,732.27	3/4	3,371.94	3/4	3,011.60	3/4	2,651.27	3/4	2,290.93	3/4	1,930.59	3/4	1,570.26	3/4	1,209.92	3/4	849.59		
9		9		9	5,104.83	9	4,800.30	9	4,445.44	9	4,085.10	9	3,724.77	9																	



BARGE "HFL-435" HINES FURLONG LINE OUTAGE TABLE

2 PORT OR STAR

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

HULL NO. 4859

15 FT.		16 FT.		17 FT.		18 FT.		19 FT.		20 FT.		21 FT.		22 FT.		23 FT.		24 FT.		25 FT.		26 FT.		27 FT.		28 FT.		29 FT.	
0	752.00	0	391.66	0	42.71	0		0		0		0		0		0		0		0		0		0		0		0	
1/4	744.49	1/4	384.15	1/4	36.27	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	736.98	1/2	376.65	1/2	31.38	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	729.47	3/4	369.14	3/4	26.48	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
1	721.97	1	361.63	1	21.59	1		1		1		1		1		1		1		1		1		1		1		1	
1/4	714.46	1/4	354.12	1/4	16.70	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	706.95	1/2	346.62	1/2	13.62	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	699.45	3/4	339.11	3/4	10.54	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
2	691.94	2	331.60	2	7.46	2		2		2		2		2		2		2		2		2		2		2		2	
1/4	684.43	1/4	324.10	1/4	4.38	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	676.93	1/2	316.59	1/2	3.35	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	669.42	3/4	309.08	3/4	2.33	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
3	661.91	3	301.58	3	* 1.30	3		3		3		3		3		3		3		3		3		3		3		3	
1/4	654.40	1/4	294.07	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	646.90	1/2	286.56	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	639.39	3/4	279.05	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
4	631.88	4	271.55	4		4		4		4		4		4		4		4		4		4		4		4		4	
1/4	624.38	1/4	264.04	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	616.87	1/2	256.53	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	609.36	3/4	249.03	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
5	601.86	5	241.52	5		5		5		5		5		5		5		5		5		5		5		5		5	
1/4	594.35	1/4	234.01	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	586.84	1/2	226.51	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	579.33	3/4	219.00	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
6	571.83	6	211.49	6		6		6		6		6		6		6		6		6		6		6		6		6	
1/4	564.32	1/4	203.98	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	556.81	1/2	196.48	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	549.31	3/4	188.97	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7	541.80	7	181.46	7		7		7		7		7		7		7		7		7		7		7		7		7	
1/4	534.29	1/4	173.96	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	526.79	1/2	167.02	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	519.28	3/4	160.09	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8	511.77	8	153.15	8		8		8		8		8		8		8		8		8		8		8		8		8	
1/4	504.26	1/4	146.22	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	496.76	1/2	139.29	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	489.25	3/4	132.35	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	481.74	9	125.42	9		9		9		9		9		9		9		9		9		9		9		9		9	
1/4	474.24	1/4	118.48	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	466.73	1/2	111.55	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	459.22	3/4	104.62	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	451.72	10	97.68	10		10		10		10		10		10		10		10		10		10		10		10		10	
1/4	444.21	1/4	90.75	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	436.70	1/2	83.81	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	429.19	3/4	76.88	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	421.69	11	69.95	11		11		11		11		11		11		11		11		11		11		11		11		11	
1/4	414.18	1/4	63.01	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	406.67	1/2	56.08	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	399.17	3/4	49.14	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

STRAPPED: 12/28/11

* CAPACITY BELOW STRIKE POINT.

REFERENCE GAUGE HEIGHT : 17'-3" (TO RIM OF 10" DIAMETER HATCH
LOCATED ON MANWAY)

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



BARGE "HFL-435" HINES FURLONG LINE

OUTAGE TABLE

2 PORT OR STAR

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

HULL NO. 4859

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.		10 FT.		11 FT.		12 FT.		13 FT.		14 FT.	
0		0		0		0	5,088.60	0	4,764.59	0	4,407.90	0	4,047.57	0	3,687.23	0	3,326.90	0	2,966.56	0	2,606.22	0	2,245.89	0	1,885.55	0	1,525.22	0	1,164.88
1/4		1/4		1/4		1/4	5,084.07	1/4	4,757.45	1/4	4,400.40	1/4	4,040.06	1/4	3,679.73	1/4	3,319.39	1/4	2,959.05	1/4	2,598.72	1/4	2,238.38	1/4	1,878.05	1/4	1,517.71	1/4	1,157.37
1/2		1/2		1/2		1/2	5,079.55	1/2	4,750.31	1/2	4,392.89	1/2	4,032.55	1/2	3,672.22	1/2	3,311.88	1/2	2,951.55	1/2	2,591.21	1/2	2,230.87	1/2	1,870.54	1/2	1,510.20	1/2	1,149.87
3/4		3/4		3/4		3/4	5,075.02	3/4	4,743.16	3/4	4,385.38	3/4	4,025.05	3/4	3,664.71	3/4	3,304.38	3/4	2,944.04	3/4	2,583.70	3/4	2,223.37	3/4	1,863.03	3/4	1,502.70	3/4	1,142.36
1		1		1		1	5,070.49	1	4,736.02	1	4,377.88	1	4,017.54	1	3,657.20	1	3,296.87	1	2,936.53	1	2,576.20	1	2,215.86	1	1,855.52	1	1,495.19	1	1,134.85
1/4		1/4		1/4		1/4	5,064.90	1/4	4,728.88	1/4	4,370.37	1/4	4,010.03	1/4	3,649.70	1/4	3,289.36	1/4	2,929.03	1/4	2,568.69	1/4	2,208.35	1/4	1,848.02	1/4	1,487.68	1/4	1,127.35
1/2		1/2		1/2		1/2	5,059.31	1/2	4,721.74	1/2	4,362.86	1/2	4,002.53	1/2	3,642.19	1/2	3,281.85	1/2	2,921.52	1/2	2,561.18	1/2	2,200.85	1/2	1,840.51	1/2	1,480.17	1/2	1,119.84
3/4		3/4		3/4		3/4	5,053.72	3/4	4,714.60	3/4	4,355.36	3/4	3,995.02	3/4	3,634.68	3/4	3,274.35	3/4	2,914.01	3/4	2,553.68	3/4	2,193.34	3/4	1,833.00	3/4	1,472.67	3/4	1,112.33
2		2		2		2	5,048.13	2	4,707.45	2	4,347.85	2	3,987.51	2	3,627.18	2	3,266.84	2	2,906.50	2	2,546.17	2	2,185.83	2	1,825.50	2	1,465.16	2	1,104.82
1/4		1/4		1/4		1/4	5,041.52	1/4	4,700.31	1/4	4,340.34	1/4	3,980.01	1/4	3,619.67	1/4	3,259.33	1/4	2,899.00	1/4	2,538.66	1/4	2,178.33	1/4	1,817.99	1/4	1,457.65	1/4	1,097.32
1/2		1/2		1/2		1/2	5,034.91	1/2	4,693.17	1/2	4,332.83	1/2	3,972.50	1/2	3,612.16	1/2	3,251.83	1/2	2,891.49	1/2	2,531.15	1/2	2,170.82	1/2	1,810.48	1/2	1,450.15	1/2	1,089.81
3/4		3/4		3/4		3/4	5,028.31	3/4	4,685.66	3/4	4,325.33	3/4	3,964.99	3/4	3,604.66	3/4	3,244.32	3/4	2,883.98	3/4	2,523.65	3/4	2,160.31	3/4	1,802.98	3/4	1,442.64	3/4	1,082.30
3		3		3		3	5,021.70	3	4,678.16	3	4,317.82	3	3,957.48	3	3,597.15	3	3,236.81	3	2,876.48	3	2,516.14	3	2,155.80	3	1,795.47	3	1,435.13	3	1,074.80
1/4		1/4		1/4		1/4	5,014.56	1/4	4,670.65	1/4	4,310.31	1/4	3,949.98	1/4	3,589.64	1/4	3,229.31	1/4	2,868.97	1/4	2,508.63	1/4	2,148.30	1/4	1,787.96	1/4	1,427.63	1/4	1,067.29
1/2		1/2		1/2		1/2	5,007.42	1/2	4,663.14	1/2	4,302.81	1/2	3,942.47	1/2	3,582.13	1/2	3,221.80	1/2	2,861.46	1/2	2,501.13	1/2	2,140.79	1/2	1,780.45	1/2	1,420.12	1/2	1,059.78
3/4		3/4		3/4		3/4	5,000.28	3/4	4,655.64	3/4	4,295.30	3/4	3,934.96	3/4	3,574.63	3/4	3,214.29	3/4	2,853.96	3/4	2,493.62	3/4	2,133.28	3/4	1,772.95	3/4	1,412.61	3/4	1,052.28
4		4		4		4	4,993.13	4	4,648.13	4	4,287.79	4	3,927.46	4	3,567.12	4	3,206.78	4	2,846.45	4	2,486.11	4	2,125.78	4	1,765.44	4	1,405.10	4	1,044.77
1/4		1/4		1/4		1/4	4,985.99	1/4	4,640.62	1/4	4,280.29	1/4	3,919.95	1/4	3,559.61	1/4	3,199.28	1/4	2,838.94	1/4	2,478.61	1/4	2,118.27	1/4	1,757.93	1/4	1,397.60	1/4	1,037.26
1/2		1/2		1/2		1/2	4,978.85	1/2	4,633.11	1/2	4,272.78	1/2	3,912.44	1/2	3,552.11	1/2	3,191.77	1/2	2,831.43	1/2	2,471.10	1/2	2,110.76	1/2	1,750.43	1/2	1,390.09	1/2	1,029.75
3/4		3/4		3/4		3/4	4,971.71	3/4	4,625.61	3/4	4,265.27	3/4	3,904.94	3/4	3,544.60	3/4	3,184.26	3/4	2,823.93	3/4	2,463.59	3/4	2,103.26	3/4	1,742.92	3/4	1,382.58	3/4	1,022.25
5		5		5		5	4,964.57	5	4,618.10	5	4,257.76	5	3,897.43	5	3,537.09	5	3,176.76	5	2,816.42	5	2,456.08	5	2,095.75	5	1,735.41	5	1,375.08	5	1,014.74
1/4		1/4		1/4		1/4	4,957.42	1/4	4,610.59	1/4	4,250.26	1/4	3,889.92	1/4	3,529.59	1/4	3,169.25	1/4	2,808.91	1/4	2,448.58	1/4	2,088.24	1/4	1,727.91	1/4	1,367.57	1/4	1,007.23
1/2		1/2		1/2		1/2	4,950.28	1/2	4,603.09	1/2	4,242.75	1/2	3,882.41	1/2	3,522.08	1/2	3,161.74	1/2	2,801.41	1/2	2,441.07	1/2	2,080.73	1/2	1,720.40	1/2	1,360.06	1/2	999.73
3/4		3/4		3/4		3/4	4,943.14	3/4	4,595.58	3/4	4,235.24	3/4	3,874.91	3/4	3,514.57	3/4	3,154.24	3/4	2,793.90	3/4	2,433.56	3/4	2,073.23	3/4	1,712.89	3/4	1,352.56	3/4	992.22
6		6		6		6	4,936.00	6	4,588.07	6	4,227.74	6	3,867.40	6	3,507.06	6	3,146.73	6	2,786.39	6	2,426.06	6	2,065.72	6	1,705.38	6	1,345.05	6	984.71
1/4		1/4		1/4		1/4	4,928.86	1/4	4,580.57	1/4	4,220.23	1/4	3,859.89	1/4	3,499.56	1/4	3,139.22	1/4	2,778.89	1/4	2,418.55	1/4	2,058.21	1/4	1,697.88	1/4	1,337.54	1/4	977.21
1/2		1/2		1/2		1/2	4,921.71	1/2	4,573.06	1/2	4,212.72	1/2	3,852.39	1/2	3,492.05	1/2	3,131.71	1/2	2,771.38	1/2	2,411.04	1/2	2,050.71	1/2	1,690.37	1/2	1,330.03	1/2	969.70
3/4		3/4		3/4		3/4	4,914.57	3/4	4,565.55	3/4	4,205.22	3/4	3,844.88	3/4	3,484.54	3/4	3,124.21	3/4	2,763.87	3/4	2,403.54	3/4	2,043.20	3/4	1,682.86	3/4	1,322.53	3/4	962.19
7		7		7		7	4,907.43	7	4,558.04	7	4,197.71	7	3,837.37	7	3,477.04	7	3,116.70	7	2,756.36	7	2,396.03	7	2,035.69	7	1,675.36	7	1,315.02	7	954.68
1/4		1/4		1/4		1/4	4,900.29	1/4	4,550.54	1/4	4,190.20	1/4	3,829.87	1/4	3,469.53	1/4	3,109.19	1/4	2,748.86	1/4	2,388.52	1/4	2,028.19	1/4	1,667.85	1/4	1,307.51	1/4	947.18
1/2		1/2		1/2		1/2	4,893.15	1/2	4,543.03	1/2	4,182.69	1/2	3,822.36	1/2	3,462.02	1/2	3,101.69	1/2	2,741.35	1/2	2,381.01	1/2	2,020.68	1/2	1,660.34	1/2	1,300.01	1/2	939.67
3/4		3/4		3/4		3/4	4,886.00	3/4	4,535.52	3/4	4,175.19	3/4	3,814.85	3/4	3,454.52	3/4	3,094.18	3/4	2,733.84	3/4	2,373.51	3/4	2,013.17	3/4	1,652.84	3/4	1,292.50	3/4	932.16
8		8		8		8	4,878.86	8	4,528.02	8	4,167.68	8	3,807.34	8	3,447.01	8	3,086.67	8	2,726.34	8	2,366.00	8	2,005.66	8	1,645.33	8	1,284.99	8	924.66
1/4		1/4		1/4	5,118.52	1/4	4,871.72	1/4	4,520.51	1/4	4,160.17	1/4	3,799.84	1/4	3,439.50	1/4	3,079.17	1/4	2,718.83	1/4	2,358.49	1/4	1,998.16	1/4	1,637.82	1/4	1,277.49	1/4	917.15
1/2		1/2		1/2	5,118.12	1/2	4,864.58	1/2	4,513.00	1/2	4,152.67	1/2	3,792.33	1/2	3,431.99	1/2	3,071.66	1/2	2,711.32	1/2	2,350.99	1/2	1,990.65	1/2	1,630.31	1/2	1,269.98	1/2	909.64
3/4		3/4		3/4	5,117.72	3/4	4,857.44	3/4	4,505.50	3/4	4,145.16	3/4	3,784.82	3/4	3,424.49	3/4	3,064.15	3/4	2,703.82	3/4	2,343.48	3/4	1,983.14	3/4	1,622.81	3/4	1,262.47	3/4	902.14
9		9		9	5,117.33	9	4,850.29	9	4,497.99	9	4,137.65	9	3,777.32	9	3,416.98	9	3,056.64	9	2,696.31	9	2,335.97	9	1,975.64	9	1,615.30	9	1,254.96	9	894.63
1/4		1/4		1/4	5,116.00	1/4	4,843.15	1/4	4,490.48	1/4	4,130.15	1/4	3,769.81	1/4	3,409.47	1/4	3,049.14	1/4	2,688.80	1/4	2,328.47	1/4	1,968.13	1/4	1,607.79	1/4	1,247.46	1/4	887.12
1/2		1/2		1/2	5,114.67	1/2	4,836.01	1/2	4,482.97	1/2	4,122.64	1/2	3,762.30	1/2	3,401.97	1/2	3,041.63	1/2	2,681.29	1/2	2,320.96	1/2	1,960.62	1/2	1,600.29	1/2	1,239.95	1/2	879.61
3/4		3/4		3/4	5,113.34	3/4	4,828.87	3/4	4,475.47	3/4	4,115.13	3/4	3,754.80	3/4	3,394.46	3/4	3,034.12	3/4	2,673.79	3/4	2,313.45	3/4	1,953.12	3/4	1,592.78	3/4	1,232.44	3/4	872.11
10		10		10	5,112.01	10	4,821.73	10	4,467.96	10	4,107.62	10	3,747.29	10	3,386.95	10	3,026.62	10	2,666.28	10	2,305.94	10	1,945.61	10	1,585.2				



BARGE "HFL-435" HINES FURLONG LINE

OUTGAGE TABLE

2 PORT OR STAR

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

HULL NO. 4859

IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.	IN	20 FT.	IN	21 FT.	IN	22 FT.	IN	23 FT.	IN	24 FT.	IN	25 FT.	IN	26 FT.	IN	27 FT.	IN	28 FT.	IN	29 FT.
0	804.54	0	444.21	0	90.75	0		0		0		0		0		0		0		0		0		0		0		0	
1/4	797.04	1/4	436.70	1/4	83.81	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	789.53	1/2	429.19	1/2	76.88	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	782.02	3/4	421.69	3/4	69.95	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
1	774.52	1	414.18	1	63.01	1		1		1		1		1		1		1		1		1		1		1		1	
1/4	767.01	1/4	406.67	1/4	56.08	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	759.50	1/2	399.17	1/2	49.14	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	752.00	3/4	391.66	3/4	42.71	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
2	744.49	2	384.15	2	36.27	2		2		2		2		2		2		2		2		2		2		2		2	
1/4	736.98	1/4	376.65	1/4	31.38	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	729.47	1/2	369.14	1/2	26.48	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	721.97	3/4	361.63	3/4	21.59	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
3	714.46	3	354.12	3	16.70	3		3		3		3		3		3		3		3		3		3		3		3	
1/4	706.95	1/4	346.62	1/4	13.62	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	699.45	1/2	339.11	1/2	10.54	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	691.94	3/4	331.60	3/4	7.46	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
4	684.43	4	324.10	4	4.38	4		4		4		4		4		4		4		4		4		4		4		4	
1/4	676.93	1/4	316.59	1/4	3.35	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	669.42	1/2	309.08	1/2	2.33	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	661.91	3/4	301.58	3/4	* 1.30	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
5	654.40	5	294.07	5		5		5		5		5		5		5		5		5		5		5		5		5	
1/4	646.90	1/4	286.56	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	639.39	1/2	279.05	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	631.88	3/4	271.55	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
6	624.38	6	264.04	6		6		6		6		6		6		6		6		6		6		6		6		6	
1/4	616.87	1/4	256.53	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	609.36	1/2	249.03	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	601.86	3/4	241.52	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7	594.35	7	234.01	7		7		7		7		7		7		7		7		7		7		7		7		7	
1/4	586.84	1/4	226.51	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	579.33	1/2	219.00	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	571.83	3/4	211.49	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8	564.32	8	203.98	8		8		8		8		8		8		8		8		8		8		8		8		8	
1/4	556.81	1/4	196.48	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	549.31	1/2	188.97	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	541.80	3/4	181.46	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	534.29	9	173.96	9		9		9		9		9		9		9		9		9		9		9		9		9	
1/4	526.79	1/4	167.02	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	519.28	1/2	160.09	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	511.77	3/4	153.15	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	504.26	10	146.22	10		10		10		10		10		10		10		10		10		10		10		10		10	
1/4	496.76	1/4	139.29	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	489.25	1/2	132.35	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	481.74	3/4	125.42	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	474.24	11	118.48	11		11		11		11		11		11		11		11		11		11		11		11		11	
1/4	466.73	1/4	111.55	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	459.22	1/2	104.62	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	451.72	3/4	97.68	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

STRAPPED: 12/28/11

* CAPACITY BELOW STRIKE POINT.

REFERENCE GAUGE HEIGHT : 17'-4 3/4" (TO RIM OF 2" DIAMETER BALL VALVE)

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



BARGE "HFL-435" HINES FURLONG LINE

INNAGE TABLE

2 PORT OR STAR

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

HULL NO. 4859

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.		10 FT.		11 FT.		12 FT.		13 FT.		14 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0	1.30	0	301.58	0	661.91	0	1,022.25	0	1,382.58	0	1,742.92	0	2,103.26	0	2,463.59	0	2,823.93	0	3,184.26	0	3,544.60	0	3,904.94	0	4,265.27	0	4,625.61	0	4,971.71
1/4	2.33	1/4	309.08	1/4	669.42	1/4	1,029.75	1/4	1,390.09	1/4	1,750.43	1/4	2,110.76	1/4	2,471.10	1/4	2,831.43	1/4	3,191.77	1/4	3,552.11	1/4	3,912.44	1/4	4,272.78	1/4	4,633.11	1/4	4,978.85
1/2	3.35	1/2	316.59	1/2	676.92	1/2	1,037.26	1/2	1,397.60	1/2	1,757.93	1/2	2,118.27	1/2	2,478.61	1/2	2,838.94	1/2	3,199.28	1/2	3,559.61	1/2	3,919.95	1/2	4,280.29	1/2	4,640.62	1/2	4,985.99
3/4	4.38	3/4	324.10	3/4	684.43	3/4	1,044.77	3/4	1,405.10	3/4	1,765.44	3/4	2,125.78	3/4	2,486.11	3/4	2,846.45	3/4	3,206.78	3/4	3,567.12	3/4	3,927.46	3/4	4,287.79	3/4	4,648.13	3/4	4,993.13
1	7.46	1	331.60	1	691.94	1	1,052.28	1	1,412.61	1	1,772.95	1	2,133.28	1	2,493.62	1	2,853.96	1	3,214.29	1	3,574.63	1	3,934.96	1	4,295.30	1	4,655.63	1	5,000.28
1/4	10.54	1/4	339.11	1/4	699.45	1/4	1,059.78	1/4	1,420.12	1/4	1,780.45	1/4	2,140.79	1/4	2,501.13	1/4	2,861.46	1/4	3,221.80	1/4	3,582.13	1/4	3,942.47	1/4	4,302.81	1/4	4,663.14	1/4	5,007.42
1/2	13.62	1/2	346.62	1/2	706.95	1/2	1,067.29	1/2	1,427.63	1/2	1,787.96	1/2	2,148.30	1/2	2,508.63	1/2	2,868.97	1/2	3,229.31	1/2	3,589.64	1/2	3,949.98	1/2	4,310.31	1/2	4,670.65	1/2	5,014.56
3/4	16.70	3/4	354.12	3/4	714.46	3/4	1,074.80	3/4	1,435.13	3/4	1,795.47	3/4	2,155.80	3/4	2,516.14	3/4	2,876.48	3/4	3,236.81	3/4	3,597.15	3/4	3,957.48	3/4	4,317.82	3/4	4,678.16	3/4	5,021.70
2	21.59	2	361.63	2	721.97	2	1,082.30	2	1,442.64	2	1,802.98	2	2,163.31	2	2,523.65	2	2,883.98	2	3,244.32	2	3,604.66	2	3,964.99	2	4,325.33	2	4,685.66	2	5,028.31
1/4	26.48	1/4	369.14	1/4	729.47	1/4	1,089.81	1/4	1,450.15	1/4	1,810.48	1/4	2,170.82	1/4	2,531.15	1/4	2,891.49	1/4	3,251.83	1/4	3,612.16	1/4	3,972.50	1/4	4,332.83	1/4	4,693.17	1/4	5,034.91
1/2	31.38	1/2	376.65	1/2	736.98	1/2	1,097.32	1/2	1,457.65	1/2	1,817.99	1/2	2,178.33	1/2	2,538.66	1/2	2,899.00	1/2	3,259.33	1/2	3,619.67	1/2	3,980.01	1/2	4,340.34	1/2	4,700.31	1/2	5,041.52
3/4	36.27	3/4	384.15	3/4	744.49	3/4	1,104.82	3/4	1,465.16	3/4	1,825.50	3/4	2,185.83	3/4	2,546.17	3/4	2,906.50	3/4	3,266.84	3/4	3,627.18	3/4	3,987.51	3/4	4,347.85	3/4	4,707.45	3/4	5,048.13
3	42.71	3	391.66	3	751.99	3	1,112.33	3	1,472.67	3	1,833.00	3	2,193.34	3	2,553.68	3	2,914.01	3	3,274.35	3	3,634.68	3	3,995.02	3	4,355.36	3	4,716.00	3	5,053.72
1/4	49.14	1/4	399.17	1/4	759.50	1/4	1,119.84	1/4	1,480.17	1/4	1,840.51	1/4	2,200.85	1/4	2,561.18	1/4	2,921.52	1/4	3,281.85	1/4	3,642.19	1/4	4,002.53	1/4	4,362.86	1/4	4,721.74	1/4	5,059.31
1/2	56.08	1/2	406.67	1/2	767.01	1/2	1,127.35	1/2	1,487.68	1/2	1,848.02	1/2	2,208.35	1/2	2,568.69	1/2	2,929.03	1/2	3,289.36	1/2	3,649.70	1/2	4,010.03	1/2	4,370.37	1/2	4,728.88	1/2	5,064.90
3/4	63.01	3/4	414.18	3/4	774.52	3/4	1,134.85	3/4	1,495.19	3/4	1,855.52	3/4	2,215.86	3/4	2,576.20	3/4	2,936.53	3/4	3,296.87	3/4	3,657.20	3/4	4,017.54	3/4	4,377.88	3/4	4,736.02	3/4	5,070.49
4	69.95	4	421.69	4	782.02	4	1,142.36	4	1,502.70	4	1,863.03	4	2,223.37	4	2,583.70	4	2,944.04	4	3,304.38	4	3,664.71	4	4,025.05	4	4,385.38	4	4,743.16	4	5,075.02
1/4	76.88	1/4	429.19	1/4	789.53	1/4	1,149.87	1/4	1,510.20	1/4	1,870.54	1/4	2,230.87	1/4	2,591.21	1/4	2,951.55	1/4	3,311.88	1/4	3,672.22	1/4	4,032.55	1/4	4,392.89	1/4	4,750.31	1/4	5,079.55
1/2	83.81	1/2	436.70	1/2	797.04	1/2	1,157.37	1/2	1,517.71	1/2	1,878.05	1/2	2,238.38	1/2	2,598.72	1/2	2,959.05	1/2	3,319.39	1/2	3,679.73	1/2	4,040.06	1/2	4,400.40	1/2	4,757.45	1/2	5,084.07
3/4	90.75	3/4	444.21	3/4	804.54	3/4	1,164.88	3/4	1,525.22	3/4	1,885.55	3/4	2,245.89	3/4	2,606.22	3/4	2,966.56	3/4	3,326.90	3/4	3,687.23	3/4	4,047.57	3/4	4,407.90	3/4	4,764.59	3/4	5,088.60
5	97.68	5	451.72	5	812.05	5	1,172.39	5	1,532.72	5	1,893.06	5	2,253.40	5	2,613.73	5	2,974.07	5	3,334.40	5	3,694.74	5	4,055.08	5	4,415.41	5	4,771.73	5	5,092.06
1/4	104.62	1/4	459.22	1/4	819.56	1/4	1,179.89	1/4	1,540.23	1/4	1,900.57	1/4	2,260.90	1/4	2,621.24	1/4	2,981.57	1/4	3,341.91	1/4	3,702.25	1/4	4,062.58	1/4	4,422.92	1/4	4,778.87	1/4	5,095.52
1/2	111.55	1/2	466.73	1/2	827.06	1/2	1,187.40	1/2	1,547.74	1/2	1,908.07	1/2	2,268.41	1/2	2,628.75	1/2	2,989.08	1/2	3,349.42	1/2	3,709.75	1/2	4,070.09	1/2	4,430.43	1/2	4,786.02	1/2	5,098.98
3/4	118.48	3/4	474.24	3/4	834.57	3/4	1,194.91	3/4	1,555.24	3/4	1,915.58	3/4	2,275.92	3/4	2,636.25	3/4	2,996.59	3/4	3,356.92	3/4	3,717.26	3/4	4,077.60	3/4	4,437.93	3/4	4,793.16	3/4	5,102.44
6	125.42	6	481.74	6	842.08	6	1,202.42	6	1,562.75	6	1,923.09	6	2,283.42	6	2,643.76	6	3,004.10	6	3,364.43	6	3,724.77	6	4,085.10	6	4,445.44	6	4,800.30	6	5,104.83
1/4	132.35	1/4	489.25	1/4	849.59	1/4	1,209.92	1/4	1,570.26	1/4	1,930.59	1/4	2,290.93	1/4	2,651.27	1/4	3,011.60	1/4	3,371.94	1/4	3,732.27	1/4	4,092.61	1/4	4,452.95	1/4	4,807.44	1/4	5,107.23
1/2	139.29	1/2	496.76	1/2	857.09	1/2	1,217.43	1/2	1,577.77	1/2	1,938.10	1/2	2,298.44	1/2	2,658.77	1/2	3,019.11	1/2	3,379.45	1/2	3,739.78	1/2	4,100.12	1/2	4,460.45	1/2	4,814.58	1/2	5,109.62
3/4	146.22	3/4	504.26	3/4	864.60	3/4	1,224.94	3/4	1,585.27	3/4	1,945.61	3/4	2,305.94	3/4	2,666.28	3/4	3,026.62	3/4	3,386.95	3/4	3,747.29	3/4	4,107.62	3/4	4,467.96	3/4	4,821.73	3/4	5,112.01
7	153.15	7	511.77	7	872.11	7	1,232.44	7	1,592.78	7	1,953.12	7	2,313.45	7	2,673.79	7	3,034.12	7	3,394.46	7	3,754.80	7	4,115.13	7	4,475.47	7	4,828.87	7	5,113.34
1/4	160.09	1/4	519.28	1/4	879.61	1/4	1,239.95	1/4	1,600.29	1/4	1,960.62	1/4	2,320.96	1/4	2,681.29	1/4	3,041.63	1/4	3,401.97	1/4	3,762.30	1/4	4,122.64	1/4	4,482.97	1/4	4,836.01	1/4	5,114.67
1/2	167.02	1/2	526.79	1/2	887.12	1/2	1,247.46	1/2	1,607.79	1/2	1,968.13	1/2	2,328.47	1/2	2,688.80	1/2	3,049.14	1/2	3,409.47	1/2	3,769.81	1/2	4,130.15	1/2	4,490.48	1/2	4,843.15	1/2	5,116.00
3/4	173.96	3/4	534.29	3/4	894.63	3/4	1,254.96	3/4	1,615.30	3/4	1,975.64	3/4	2,335.97	3/4	2,696.31	3/4	3,056.64	3/4	3,416.98	3/4	3,777.32	3/4	4,137.65	3/4	4,497.99	3/4	4,850.29	3/4	5,117.33
8	181.46	8	541.80	8	902.13	8	1,262.47	8	1,622.81	8	1,983.14	8	2,343.48	8	2,703.82	8	3,064.15	8	3,424.49	8	3,784.82	8	4,145.16	8	4,505.50	8	4,857.44	8	5,117.72
1/4	188.97	1/4	549.31	1/4	909.64	1/4	1,269.98	1/4	1,630.31	1/4	1,990.65	1/4	2,350.99	1/4	2,711.32	1/4	3,071.66	1/4	3,431.99	1/4	3,792.33	1/4	4,152.67	1/4	4,513.00	1/4	4,864.58	1/4	5,118.12
1/2	196.48	1/2	556.81	1/2	917.15	1/2	1,277.49	1/2	1,637.82	1/2	1,998.1																		



BARGE "HFL-435" HINES FURLONG LINE

INNAGE TABLE

1 PORT OR STAR

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

HULL NO. 4859

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.		10 FT.		11 FT.		12 FT.		13 FT.		14 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0	1.56	0	284.19	0	640.15	0	997.80	0	1,355.44	0	1,713.09	0	2,070.74	0	2,428.39	0	2,786.04	0	3,143.68	0	3,501.33	0	3,858.98	0	4,216.63	0	4,574.28	0	4,931.92
1/4	2.84	1/4	291.39	1/4	647.60	1/4	1,005.25	1/4	1,362.89	1/4	1,720.54	1/4	2,078.19	1/4	2,435.84	1/4	2,793.49	1/4	3,151.13	1/4	3,508.78	1/4	3,866.43	1/4	4,224.08	1/4	4,581.73	1/4	4,939.37
1/2	4.12	1/2	298.60	1/2	655.05	1/2	1,012.70	1/2	1,370.35	1/2	1,727.99	1/2	2,085.64	1/2	2,443.29	1/2	2,800.94	1/2	3,158.59	1/2	3,516.23	1/2	3,873.88	1/2	4,231.53	1/2	4,589.18	1/2	4,946.83
3/4	5.40	3/4	305.80	3/4	662.50	3/4	1,020.15	3/4	1,377.80	3/4	1,735.44	3/4	2,093.09	3/4	2,450.74	3/4	2,808.39	3/4	3,166.04	3/4	3,523.68	3/4	3,881.33	3/4	4,238.98	3/4	4,596.63	3/4	4,954.28
1	8.40	1	313.00	1	669.95	1	1,027.60	1	1,385.25	1	1,742.90	1	2,100.54	1	2,458.19	1	2,815.84	1	3,173.49	1	3,531.14	1	3,888.78	1	4,246.43	1	4,604.08	1	4,961.73
1/4	11.41	1/4	320.21	1/4	677.40	1/4	1,035.05	1/4	1,392.70	1/4	1,750.35	1/4	2,107.99	1/4	2,465.64	1/4	2,823.29	1/4	3,180.94	1/4	3,538.59	1/4	3,896.23	1/4	4,253.88	1/4	4,611.53	1/4	4,969.18
1/2	14.41	1/2	327.41	1/2	684.85	1/2	1,042.50	1/2	1,400.15	1/2	1,757.80	1/2	2,115.45	1/2	2,473.09	1/2	2,830.74	1/2	3,188.39	1/2	3,546.04	1/2	3,903.69	1/2	4,261.33	1/2	4,618.98	1/2	4,976.63
3/4	17.42	3/4	334.62	3/4	692.30	3/4	1,049.95	3/4	1,407.60	3/4	1,765.25	3/4	2,122.90	3/4	2,480.54	3/4	2,838.19	3/4	3,195.84	3/4	3,553.49	3/4	3,911.14	3/4	4,268.78	3/4	4,626.43	3/4	4,984.08
2	22.03	2	341.94	2	699.76	2	1,057.40	2	1,415.05	2	1,772.70	2	2,130.35	2	2,488.00	2	2,845.64	2	3,203.29	2	3,560.94	2	3,918.59	2	4,276.24	2	4,633.88	2	4,991.15
1/4	26.64	1/4	349.27	1/4	707.21	1/4	1,064.85	1/4	1,422.50	1/4	1,780.15	1/4	2,137.80	1/4	2,495.45	1/4	2,853.09	1/4	3,210.74	1/4	3,568.39	1/4	3,926.04	1/4	4,283.69	1/4	4,641.33	1/4	4,998.22
1/2	31.26	1/2	356.60	1/2	714.66	1/2	1,072.31	1/2	1,429.95	1/2	1,787.60	1/2	2,145.25	1/2	2,502.90	1/2	2,860.55	1/2	3,218.19	1/2	3,575.84	1/2	3,933.49	1/2	4,291.14	1/2	4,648.79	1/2	5,005.30
3/4	35.87	3/4	363.93	3/4	722.11	3/4	1,079.76	3/4	1,437.40	3/4	1,795.05	3/4	2,152.70	3/4	2,510.35	3/4	2,868.00	3/4	3,225.64	3/4	3,583.29	3/4	3,940.94	3/4	4,298.59	3/4	4,656.24	3/4	5,012.37
3	41.78	3	371.26	3	729.56	3	1,087.21	3	1,444.86	3	1,802.50	3	2,160.15	3	2,517.80	3	2,875.45	3	3,233.10	3	3,590.74	3	3,948.39	3	4,306.04	3	4,663.69	3	5,018.31
1/4	47.68	1/4	378.58	1/4	737.01	1/4	1,094.66	1/4	1,452.31	1/4	1,809.95	1/4	2,167.60	1/4	2,525.25	1/4	2,882.90	1/4	3,240.55	1/4	3,598.19	1/4	3,955.84	1/4	4,313.49	1/4	4,671.14	1/4	5,024.25
1/2	54.02	1/2	385.91	1/2	744.46	1/2	1,102.11	1/2	1,459.76	1/2	1,817.41	1/2	2,175.05	1/2	2,532.70	1/2	2,890.35	1/2	3,248.00	1/2	3,605.65	1/2	3,963.29	1/2	4,320.94	1/2	4,678.59	1/2	5,030.19
3/4	60.36	3/4	393.24	3/4	751.91	3/4	1,109.56	3/4	1,467.21	3/4	1,824.86	3/4	2,182.50	3/4	2,540.15	3/4	2,897.80	3/4	3,255.45	3/4	3,613.10	3/4	3,970.74	3/4	4,328.39	3/4	4,686.04	3/4	5,036.14
4	66.82	4	400.69	4	759.36	4	1,117.01	4	1,474.66	4	1,832.31	4	2,189.96	4	2,547.60	4	2,905.25	4	3,262.90	4	3,620.55	4	3,978.20	4	4,335.84	4	4,693.49	4	5,044.94
1/4	73.29	1/4	408.14	1/4	766.81	1/4	1,124.46	1/4	1,482.11	1/4	1,839.76	1/4	2,197.41	1/4	2,555.05	1/4	2,912.70	1/4	3,270.35	1/4	3,628.00	1/4	3,985.65	1/4	4,343.29	1/4	4,700.94	1/4	5,045.75
1/2	79.75	1/2	415.60	1/2	774.27	1/2	1,131.91	1/2	1,489.56	1/2	1,847.21	1/2	2,204.86	1/2	2,562.51	1/2	2,920.15	1/2	3,277.80	1/2	3,635.45	1/2	3,993.10	1/2	4,350.75	1/2	4,708.39	1/2	5,050.55
3/4	86.22	3/4	423.05	3/4	781.72	3/4	1,139.36	3/4	1,497.01	3/4	1,854.66	3/4	2,212.31	3/4	2,569.96	3/4	2,927.60	3/4	3,285.25	3/4	3,642.90	3/4	4,000.55	3/4	4,358.20	3/4	4,715.84	3/4	5,055.36
5	92.68	5	430.50	5	789.17	5	1,146.82	5	1,504.46	5	1,862.11	5	2,219.76	5	2,577.41	5	2,935.06	5	3,292.70	5	3,650.35	5	4,008.00	5	4,365.65	5	4,723.30	5	5,059.03
1/4	99.14	1/4	437.95	1/4	796.62	1/4	1,154.27	1/4	1,511.91	1/4	1,869.56	1/4	2,227.21	1/4	2,584.86	1/4	2,942.51	1/4	3,300.15	1/4	3,657.80	1/4	4,015.45	1/4	4,373.10	1/4	4,730.75	1/4	5,062.71
1/2	105.61	1/2	445.40	1/2	804.07	1/2	1,161.72	1/2	1,519.37	1/2	1,877.01	1/2	2,234.66	1/2	2,592.31	1/2	2,949.96	1/2	3,307.61	1/2	3,665.25	1/2	4,022.90	1/2	4,380.55	1/2	4,738.20	1/2	5,066.38
3/4	112.07	3/4	452.86	3/4	811.52	3/4	1,169.17	3/4	1,526.82	3/4	1,884.46	3/4	2,242.11	3/4	2,599.76	3/4	2,957.41	3/4	3,315.06	3/4	3,672.70	3/4	4,030.35	3/4	4,388.00	3/4	4,745.65	3/4	5,070.06
6	118.66	6	460.43	6	818.97	6	1,176.62	6	1,534.27	6	1,891.92	6	2,249.56	6	2,607.21	6	2,964.86	6	3,322.51	6	3,680.16	6	4,037.80	6	4,395.45	6	4,753.10	6	5,072.60
1/4	125.24	1/4	468.01	1/4	826.42	1/4	1,184.07	1/4	1,541.72	1/4	1,899.37	1/4	2,257.01	1/4	2,614.66	1/4	2,972.31	1/4	3,329.96	1/4	3,687.61	1/4	4,045.25	1/4	4,402.90	1/4	4,760.55	1/4	5,075.15
1/2	131.83	1/2	475.59	1/2	833.87	1/2	1,191.52	1/2	1,549.17	1/2	1,906.82	1/2	2,264.47	1/2	2,622.11	1/2	2,979.76	1/2	3,337.41	1/2	3,695.06	1/2	4,052.71	1/2	4,410.35	1/2	4,768.00	1/2	5,077.69
3/4	138.42	3/4	483.17	3/4	841.32	3/4	1,198.97	3/4	1,556.62	3/4	1,914.27	3/4	2,271.92	3/4	2,629.56	3/4	2,987.21	3/4	3,344.86	3/4	3,702.51	3/4	4,060.16	3/4	4,417.80	3/4	4,775.45	3/4	5,080.24
7	145.00	7	490.75	7	848.78	7	1,206.42	7	1,564.07	7	1,921.72	7	2,279.37	7	2,637.02	7	2,994.66	7	3,352.31	7	3,709.96	7	4,067.61	7	4,425.26	7	4,782.90	7	5,081.65
1/4	151.59	1/4	498.32	1/4	856.23	1/4	1,213.87	1/4	1,571.52	1/4	1,929.17	1/4	2,286.82	1/4	2,644.47	1/4	3,002.11	1/4	3,359.76	1/4	3,717.41	1/4	4,075.06	1/4	4,432.71	1/4	4,790.35	1/4	5,083.06
1/2	158.17	1/2	505.90	1/2	863.68	1/2	1,221.33	1/2	1,578.97	1/2	1,936.62	1/2	2,294.27	1/2	2,651.92	1/2	3,009.57	1/2	3,367.21	1/2	3,724.86	1/2	4,082.51	1/2	4,440.16	1/2	4,797.81	1/2	5,084.48
3/4	164.76	3/4	513.48	3/4	871.13	3/4	1,228.78	3/4	1,586.42	3/4	1,944.07	3/4	2,301.72	3/4	2,659.37	3/4	3,017.02	3/4	3,374.66	3/4	3,732.31	3/4	4,089.96	3/4	4,447.61	3/4	4,805.26	3/4	5,085.89
8	171.71	8	520.93	8	878.58	8	1,236.23	8	1,593.88	8	1,951.52	8	2,309.17	8	2,666.82	8	3,024.47	8	3,382.12	8	3,739.76	8	4,097.41	8	4,455.06	8	4,812.71	8	5,086.30
1/4	178.66	1/4	528.38	1/4	886.03	1/4	1,243.68	1/4	1,601.33	1/4	1,958.97	1/4	2,316.62	1/4	2,674.27	1/4	3,031.92	1/4	3,389.57	1/4	3,747.21	1/4	4,104.86	1/4	4,462.51	1/4	4,820.16	1/4	5,086.72
1/2	185.62	1/2	535.83	1/2	893.48	1/2	1,251.13	1/2	1,608.78	1/2	1,966.43																		



BARGE "HFL-435" HINES FURLONG LINE OUTAGE TABLE

1 PORT OR STAR

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

HULL NO. 4859

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.		10 FT.		11 FT.		12 FT.		13 FT.		14 FT.			
0		0		0	5,018.31	0	4,663.69	0	4,306.04	0	3,948.39	0	3,590.74	0	3,233.09	0	2,875.45	0	2,517.80	0	2,160.15	0	1,802.50	0	1,444.85	0	1,087.21				
1/4	1/4	1/4	1/4	1/4	5,012.37	1/4	4,656.24	1/4	4,298.59	1/4	3,940.94	1/4	3,583.29	1/4	3,225.64	1/4	2,868.00	1/4	2,510.35	1/4	2,152.70	1/4	1,795.05	1/4	1,437.40	1/4	1,079.76				
1/2	1/2	1/2	1/2	1/2	5,005.30	1/2	4,648.79	1/2	4,291.14	1/2	3,933.49	1/2	3,575.84	1/2	3,218.19	1/2	2,860.54	1/2	2,502.90	1/2	2,145.25	1/2	1,787.60	1/2	1,429.95	1/2	1,072.30				
3/4	3/4	3/4	3/4	3/4	4,998.22	3/4	4,641.33	3/4	4,283.69	3/4	3,926.04	3/4	3,568.39	3/4	3,210.74	3/4	2,853.09	3/4	2,495.45	3/4	2,137.80	3/4	1,780.15	3/4	1,422.50	3/4	1,064.85				
1		1		1	4,991.15	1	4,633.88	1	4,276.24	1	3,918.59	1	3,560.94	1	3,203.29	1	2,845.64	1	2,487.99	1	2,130.35	1	1,772.70	1	1,415.05	1	1,057.40				
1/4	1/4	1/4	1/4	1/4	4,984.08	1/4	4,626.43	1/4	4,268.78	1/4	3,911.14	1/4	3,553.49	1/4	3,195.84	1/4	2,838.19	1/4	2,480.54	1/4	2,122.90	1/4	1,765.25	1/4	1,407.60	1/4	1,049.95				
1/2	1/2	1/2	1/2	1/2	4,976.63	1/2	4,618.98	1/2	4,261.33	1/2	3,903.69	1/2	3,546.04	1/2	3,188.39	1/2	2,830.74	1/2	2,473.09	1/2	2,115.44	1/2	1,757.80	1/2	1,400.15	1/2	1,042.50				
3/4	3/4	3/4	3/4	3/4	4,969.18	3/4	4,611.53	3/4	4,253.88	3/4	3,896.23	3/4	3,538.59	3/4	3,180.94	3/4	2,823.29	3/4	2,465.64	3/4	2,107.99	3/4	1,750.35	3/4	1,392.70	3/4	1,035.05				
2		2		2	4,961.73	2	4,604.08	2	4,246.43	2	3,888.78	2	3,531.13	2	3,173.49	2	2,815.84	2	2,458.19	2	2,100.54	2	1,742.89	2	1,385.25	2	1,027.60				
1/4	1/4	1/4	1/4	1/4	4,954.28	1/4	4,596.63	1/4	4,238.98	1/4	3,881.33	1/4	3,523.68	1/4	3,166.04	1/4	2,808.39	1/4	2,450.74	1/4	2,093.09	1/4	1,735.44	1/4	1,377.80	1/4	1,020.15				
1/2	1/2	1/2	1/2	1/2	4,946.83	1/2	4,589.18	1/2	4,231.53	1/2	3,873.88	1/2	3,516.23	1/2	3,158.58	1/2	2,800.94	1/2	2,443.29	1/2	2,085.64	1/2	1,727.99	1/2	1,370.34	1/2	1,012.70				
3/4	3/4	3/4	3/4	3/4	4,939.37	3/4	4,581.73	3/4	4,224.08	3/4	3,866.43	3/4	3,508.78	3/4	3,151.13	3/4	2,793.49	3/4	2,435.84	3/4	2,078.19	3/4	1,720.54	3/4	1,362.89	3/4	1,005.25				
3		3		3	4,931.92	3	4,574.28	3	4,216.63	3	3,858.98	3	3,501.33	3	3,143.68	3	2,786.03	3	2,428.39	3	2,070.74	3	1,713.09	3	1,355.44	3	997.79				
1/4	1/4	1/4	1/4	1/4	4,924.47	1/4	4,566.82	1/4	4,209.18	1/4	3,851.53	1/4	3,493.88	1/4	3,136.23	1/4	2,778.58	1/4	2,420.94	1/4	2,063.29	1/4	1,705.64	1/4	1,347.99	1/4	990.34				
1/2	1/2	1/2	1/2	1/2	4,917.02	1/2	4,559.37	1/2	4,201.73	1/2	3,844.08	1/2	3,486.43	1/2	3,128.78	1/2	2,771.13	1/2	2,413.48	1/2	2,055.84	1/2	1,698.19	1/2	1,340.54	1/2	982.89				
3/4	3/4	3/4	3/4	3/4	4,909.57	3/4	4,551.92	3/4	4,194.27	3/4	3,836.63	3/4	3,478.98	3/4	3,121.33	3/4	2,763.68	3/4	2,406.03	3/4	2,048.39	3/4	1,690.74	3/4	1,333.09	3/4	975.44				
4		4		4	4,902.12	4	4,544.47	4	4,186.82	4	3,829.18	4	3,471.53	4	3,113.88	4	2,756.23	4	2,398.58	4	2,040.93	4	1,683.29	4	1,325.64	4	967.99				
1/4	1/4	1/4	1/4	1/4	4,894.67	1/4	4,537.02	1/4	4,179.37	1/4	3,821.72	1/4	3,464.08	1/4	3,106.43	1/4	2,748.78	1/4	2,391.13	1/4	2,033.48	1/4	1,675.84	1/4	1,318.19	1/4	960.54				
1/2	1/2	1/2	1/2	1/2	4,887.22	1/2	4,529.57	1/2	4,171.92	1/2	3,814.27	1/2	3,456.62	1/2	3,098.98	1/2	2,741.33	1/2	2,383.68	1/2	2,026.03	1/2	1,668.38	1/2	1,310.74	1/2	953.09				
3/4	3/4	3/4	3/4	3/4	4,879.77	3/4	4,522.12	3/4	4,164.47	3/4	3,806.82	3/4	3,449.17	3/4	3,091.53	3/4	2,733.88	3/4	2,376.23	3/4	2,018.58	3/4	1,660.93	3/4	1,303.29	3/4	945.64				
5		5		5	4,872.32	5	4,514.67	5	4,157.02	5	3,799.37	5	3,441.72	5	3,084.07	5	2,726.43	5	2,368.78	5	2,011.13	5	1,653.48	5	1,295.83	5	938.19				
1/4	1/4	1/4	1/4	1/4	4,864.86	1/4	4,507.22	1/4	4,149.57	1/4	3,791.92	1/4	3,434.27	1/4	3,076.62	1/4	2,718.98	1/4	2,361.33	1/4	2,003.68	1/4	1,646.03	1/4	1,288.38	1/4	930.74				
1/2	1/2	1/2	1/2	1/2	4,857.41	1/2	4,499.77	1/2	4,142.12	1/2	3,784.47	1/2	3,426.82	1/2	3,069.17	1/2	2,711.52	1/2	2,353.88	1/2	1,996.23	1/2	1,638.58	1/2	1,280.93	1/2	923.28				
3/4	3/4	3/4	3/4	3/4	4,849.96	3/4	4,492.31	3/4	4,134.67	3/4	3,777.02	3/4	3,419.37	3/4	3,061.72	3/4	2,704.07	3/4	2,346.43	3/4	1,988.78	3/4	1,631.13	3/4	1,273.48	3/4	915.83				
6		6		6	4,842.51	6	4,484.86	6	4,127.22	6	3,769.57	6	3,411.92	6	3,054.27	6	2,696.62	6	2,338.97	6	1,981.33	6	1,623.68	6	1,266.03	6	908.38				
1/4	1/4	1/4	1/4	1/4	4,835.06	1/4	4,477.41	1/4	4,119.76	1/4	3,762.12	1/4	3,404.47	1/4	3,046.82	1/4	2,689.17	1/4	2,331.52	1/4	1,973.88	1/4	1,616.23	1/4	1,258.58	1/4	900.93				
1/2	1/2	1/2	5,087.14	1/2	4,827.61	1/2	4,469.96	1/2	4,112.31	1/2	3,754.67	1/2	3,397.02	1/2	3,039.37	1/2	2,681.72	1/2	2,324.07	1/2	1,966.42	1/2	1,608.78	1/2	1,251.13	1/2	893.48				
3/4	3/4	3/4	5,086.72	3/4	4,820.16	3/4	4,462.51	3/4	4,104.86	3/4	3,747.21	3/4	3,389.57	3/4	3,031.92	3/4	2,674.27	3/4	2,316.62	3/4	1,958.97	3/4	1,601.33	3/4	1,243.68	3/4	886.03				
7		7		7	5,086.30	7	4,812.71	7	4,455.06	7	4,097.41	7	3,739.76	7	3,382.11	7	3,024.47	7	2,666.82	7	2,309.17	7	1,951.52	7	1,593.87	7	1,236.23	7	878.58		
1/4	1/4	1/4	5,085.89	1/4	4,805.26	1/4	4,447.61	1/4	4,089.96	1/4	3,732.31	1/4	3,374.66	1/4	3,017.02	1/4	2,659.37	1/4	2,301.72	1/4	1,944.07	1/4	1,586.42	1/4	1,228.78	1/4	871.13				
1/2	1/2	1/2	5,084.48	1/2	4,797.81	1/2	4,440.16	1/2	4,082.51	1/2	3,724.86	1/2	3,367.21	1/2	3,009.56	1/2	2,651.92	1/2	2,294.27	1/2	1,936.62	1/2	1,578.97	1/2	1,221.32	1/2	863.68				
3/4	3/4	3/4	5,083.06	3/4	4,790.35	3/4	4,432.71	3/4	4,075.06	3/4	3,717.41	3/4	3,359.76	3/4	3,002.11	3/4	2,644.47	3/4	2,286.82	3/4	1,929.17	3/4	1,571.52	3/4	1,213.87	3/4	856.23				
8		8		8	5,081.65	8	4,782.90	8	4,425.26	8	4,067.61	8	3,709.96	8	3,352.31	8	2,994.66	8	2,637.01	8	2,279.37	8	1,921.72	8	1,564.07	8	1,206.42	8	848.77		
1/4	1/4	1/4	5,080.24	1/4	4,775.45	1/4	4,417.80	1/4	4,060.16	1/4	3,702.51	1/4	3,344.86	1/4	2,987.21	1/4	2,629.56	1/4	2,271.92	1/4	1,914.27	1/4	1,556.62	1/4	1,198.97	1/4	841.32				
1/2	1/2	1/2	5,077.69	1/2	4,768.00	1/2	4,410.35	1/2	4,052.71	1/2	3,695.06	1/2	3,337.41	1/2	2,979.76	1/2	2,622.11	1/2	2,264.46	1/2	1,906.82	1/2	1,549.17	1/2	1,191.52	1/2	833.87				
3/4	3/4	3/4	5,075.15	3/4	4,760.55	3/4	4,402.90	3/4	4,045.25	3/4	3,687.61	3/4	3,329.96	3/4	2,972.31	3/4	2,614.66	3/4	2,257.01	3/4	1,899.37	3/4	1,541.72	3/4	1,184.07	3/4	826.42				
9		9		9	5,072.60	9	4,753.10	9	4,395.45	9	4,037.80	9	3,680.16	9	3,322.51	9	2,964.86	9	2,607.21	9	2,249.56	9	1,891.91	9	1,534.27	9	1,176.62	9	818.97		
1/4	1/4	1/4	5,070.06	1/4	4,745.65	1/4	4,388.00	1/4	4,030.35	1/4	3,672.70	1/4	3,315.06	1/4	2,957.41	1/4	2,599.76	1/4	2,242.11	1/4	1,884.46	1/4	1,526.82	1/4	1,169.17	1/4	811.52				
1/2	1/2	1/2	5,066.38	1/2	4,738.20	1/2	4,380.55	1/2	4,022.90	1/2	3,665.25	1/2	3,307.60	1/2	2,949.96	1/2	2,592.31	1/2	2,234.66	1/2	1,877.01	1/2	1,519.36	1/2	1,161.72	1/2	804.07				
3/4	3/4	3/4	5,062.71	3/4	4,730.75	3/4	4,373.10	3/4	4,015.45	3/4	3,657.80	3/4	3,300.15	3/4	2,942.51	3/4	2,584.86	3/4	2,227.21	3/4	1,869.56	3/4	1,511.91	3/4	1,154.27	3/4	796.62				
10		10		10	5,059.03	10	4,723.30	10	4,365.65	10	4,008.00	10																			



BARGE "HFL-435" HINES FURLONG LINE OUTAGE TABLE

1 PORT OR STAR

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

HULL NO. 4859

15 FT.		16 FT.		17 FT.		18 FT.		19 FT.		20 FT.		21 FT.		22 FT.		23 FT.		24 FT.		25 FT.		26 FT.		27 FT.		28 FT.		29 FT.	
0	729.56	0	371.26	0	41.78	0		0		0		0		0		0		0		0		0		0		0		0	
1/4	722.11	1/4	363.93	1/4	35.87	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	714.66	1/2	356.60	1/2	31.26	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	707.21	3/4	349.27	3/4	26.64	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
1	699.75	1	341.94	1	22.03	1		1		1		1		1		1		1		1		1		1		1		1	
1/4	692.30	1/4	334.62	1/4	17.42	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	684.85	1/2	327.41	1/2	14.41	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	677.40	3/4	320.21	3/4	11.41	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
2	669.95	2	313.00	2	8.40	2		2		2		2		2		2		2		2		2		2		2		2	
1/4	662.50	1/4	305.80	1/4	5.40	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	655.05	1/2	298.60	1/2	4.12	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	647.60	3/4	291.39	3/4	2.84	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
3	640.15	3	284.19	3	* 1.56	3		3		3		3		3		3		3		3		3		3		3		3	
1/4	632.70	1/4	276.98	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	625.24	1/2	269.91	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	617.79	3/4	262.83	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
4	610.34	4	255.76	4		4		4		4		4		4		4		4		4		4		4		4		4	
1/4	602.89	1/4	248.68	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	595.44	1/2	241.60	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	587.99	3/4	234.53	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
5	580.54	5	227.45	5		5		5		5		5		5		5		5		5		5		5		5		5	
1/4	573.09	1/4	220.38	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	565.64	1/2	213.42	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	558.19	3/4	206.47	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
6	550.73	6	199.52	6		6		6		6		6		6		6		6		6		6		6		6		6	
1/4	543.28	1/4	192.57	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	535.83	1/2	185.62	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	528.38	3/4	178.66	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7	520.93	7	171.71	7		7		7		7		7		7		7		7		7		7		7		7		7	
1/4	513.48	1/4	164.76	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	505.90	1/2	158.17	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	498.32	3/4	151.59	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8	490.75	8	145.00	8		8		8		8		8		8		8		8		8		8		8		8		8	
1/4	483.17	1/4	138.42	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	475.59	1/2	131.83	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	468.01	3/4	125.24	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	460.43	9	118.66	9		9		9		9		9		9		9		9		9		9		9		9		9	
1/4	452.86	1/4	112.07	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	445.40	1/2	105.61	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	437.95	3/4	99.14	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	430.50	10	92.68	10		10		10		10		10		10		10		10		10		10		10		10		10	
1/4	423.05	1/4	86.22	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	415.60	1/2	79.75	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	408.14	3/4	73.29	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	400.69	11	66.82	11		11		11		11		11		11		11		11		11		11		11		11		11	
1/4	393.24	1/4	60.36	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	385.91	1/2	54.02	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	378.58	3/4	47.68	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

STRAPPED: 12/28/11

* CAPACITY BELOW STRIKE POINT.

REFERENCE GAUGE HEIGHT : 17'-3" (TO RIM OF 10" DIAMETER HATCH
LOCATED ON MANWAY)

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



BARGE "HFL-435" HINES FURLONG LINE

OUTAGE TABLE

1 PORT OR STAR

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

HULL NO. 4859

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.		10 FT.		11 FT.		12 FT.		13 FT.		14 FT.	
0	0	0	0	0	5,055.36	0	4,715.84	0	4,358.20	0	4,000.55	0	3,642.90	0	3,285.25	0	2,927.60	0	2,569.96	0	2,212.31	0	1,854.66	0	1,497.01	0	1,139.36		
1/4	1/4	1/4	1/4	1/4	5,050.55	1/4	4,708.39	1/4	4,350.75	1/4	3,993.10	1/4	3,635.45	1/4	3,277.80	1/4	2,920.15	1/4	2,562.50	1/4	2,204.86	1/4	1,847.21	1/4	1,489.56	1/4	1,131.91		
1/2	1/2	1/2	1/2	1/2	5,045.75	1/2	4,700.94	1/2	4,343.29	1/2	3,985.65	1/2	3,628.00	1/2	3,270.35	1/2	2,912.70	1/2	2,555.05	1/2	2,197.41	1/2	1,839.76	1/2	1,482.11	1/2	1,124.46		
3/4	3/4	3/4	3/4	3/4	5,040.94	3/4	4,693.49	3/4	4,335.84	3/4	3,978.20	3/4	3,620.55	3/4	3,262.90	3/4	2,905.25	3/4	2,547.60	3/4	2,189.95	3/4	1,832.31	3/4	1,474.66	3/4	1,117.01		
1	1	1	1	1	5,036.14	1	4,686.04	1	4,328.39	1	3,970.74	1	3,613.10	1	3,255.45	1	2,897.80	1	2,540.15	1	2,182.50	1	1,824.86	1	1,467.21	1	1,109.56		
1/4	1/4	1/4	1/4	1/4	5,030.19	1/4	4,678.59	1/4	4,320.94	1/4	3,963.29	1/4	3,605.64	1/4	3,248.00	1/4	2,890.35	1/4	2,532.70	1/4	2,175.05	1/4	1,817.40	1/4	1,459.76	1/4	1,102.11		
1/2	1/2	1/2	1/2	1/2	5,024.25	1/2	4,671.14	1/2	4,313.49	1/2	3,955.84	1/2	3,598.19	1/2	3,240.55	1/2	2,882.90	1/2	2,525.25	1/2	2,167.60	1/2	1,809.95	1/2	1,452.31	1/2	1,094.66		
3/4	3/4	3/4	3/4	3/4	5,018.31	3/4	4,663.69	3/4	4,306.04	3/4	3,948.39	3/4	3,590.74	3/4	3,233.09	3/4	2,875.45	3/4	2,517.80	3/4	2,160.15	3/4	1,802.50	3/4	1,444.85	3/4	1,087.21		
2	2	2	2	2	5,012.37	2	4,656.24	2	4,298.59	2	3,940.94	2	3,583.29	2	3,225.64	2	2,868.00	2	2,510.35	2	2,152.70	2	1,795.05	2	1,437.40	2	1,079.76		
1/4	1/4	1/4	1/4	1/4	5,005.30	1/4	4,648.79	1/4	4,291.14	1/4	3,933.49	1/4	3,575.84	1/4	3,218.19	1/4	2,860.54	1/4	2,502.90	1/4	2,145.25	1/4	1,787.60	1/4	1,429.95	1/4	1,072.30		
1/2	1/2	1/2	1/2	1/2	4,998.22	1/2	4,641.33	1/2	4,283.69	1/2	3,926.04	1/2	3,568.39	1/2	3,210.74	1/2	2,853.09	1/2	2,495.45	1/2	2,137.80	1/2	1,780.15	1/2	1,422.50	1/2	1,064.85		
3/4	3/4	3/4	3/4	3/4	4,991.15	3/4	4,633.88	3/4	4,276.24	3/4	3,918.59	3/4	3,560.94	3/4	3,203.29	3/4	2,845.64	3/4	2,487.99	3/4	2,130.35	3/4	1,772.70	3/4	1,415.05	3/4	1,057.40		
3	3	3	3	3	4,984.08	3	4,626.43	3	4,268.78	3	3,911.14	3	3,553.49	3	3,195.84	3	2,838.19	3	2,480.54	3	2,122.90	3	1,765.25	3	1,407.60	3	1,049.95		
1/4	1/4	1/4	1/4	1/4	4,976.63	1/4	4,618.98	1/4	4,261.33	1/4	3,903.69	1/4	3,546.04	1/4	3,188.39	1/4	2,830.74	1/4	2,473.09	1/4	2,115.44	1/4	1,757.80	1/4	1,400.15	1/4	1,042.50		
1/2	1/2	1/2	1/2	1/2	4,969.18	1/2	4,611.53	1/2	4,253.88	1/2	3,896.23	1/2	3,538.59	1/2	3,180.94	1/2	2,823.29	1/2	2,465.64	1/2	2,107.99	1/2	1,750.35	1/2	1,392.70	1/2	1,035.05		
3/4	3/4	3/4	3/4	3/4	4,961.73	3/4	4,604.08	3/4	4,246.43	3/4	3,888.78	3/4	3,531.13	3/4	3,173.49	3/4	2,815.84	3/4	2,458.19	3/4	2,100.54	3/4	1,742.89	3/4	1,385.25	3/4	1,027.60		
4	4	4	4	4	4,954.28	4	4,596.63	4	4,238.98	4	3,881.33	4	3,523.68	4	3,166.04	4	2,808.39	4	2,450.74	4	2,093.09	4	1,735.44	4	1,377.80	4	1,020.15		
1/4	1/4	1/4	1/4	1/4	4,946.83	1/4	4,589.18	1/4	4,231.53	1/4	3,873.88	1/4	3,516.23	1/4	3,158.58	1/4	2,800.94	1/4	2,443.29	1/4	2,085.64	1/4	1,727.99	1/4	1,370.34	1/4	1,012.70		
1/2	1/2	1/2	1/2	1/2	4,939.37	1/2	4,581.73	1/2	4,224.08	1/2	3,866.43	1/2	3,508.78	1/2	3,151.13	1/2	2,793.49	1/2	2,435.84	1/2	2,078.19	1/2	1,720.54	1/2	1,362.89	1/2	1,005.25		
3/4	3/4	3/4	3/4	3/4	4,931.92	3/4	4,574.28	3/4	4,216.63	3/4	3,858.98	3/4	3,501.33	3/4	3,143.68	3/4	2,785.03	3/4	2,428.39	3/4	2,070.74	3/4	1,713.09	3/4	1,355.44	3/4	997.79		
5	5	5	5	5	4,924.47	5	4,566.82	5	4,209.18	5	3,851.53	5	3,493.88	5	3,136.23	5	2,778.58	5	2,420.94	5	2,063.29	5	1,705.64	5	1,347.99	5	990.34		
1/4	1/4	1/4	1/4	1/4	4,917.02	1/4	4,559.37	1/4	4,201.73	1/4	3,844.08	1/4	3,486.43	1/4	3,128.78	1/4	2,771.13	1/4	2,413.48	1/4	2,055.84	1/4	1,698.19	1/4	1,340.54	1/4	982.89		
1/2	1/2	1/2	1/2	1/2	4,909.57	1/2	4,551.92	1/2	4,194.27	1/2	3,836.63	1/2	3,478.98	1/2	3,121.33	1/2	2,763.68	1/2	2,406.03	1/2	2,048.39	1/2	1,690.74	1/2	1,333.09	1/2	975.44		
3/4	3/4	3/4	3/4	3/4	4,902.12	3/4	4,544.47	3/4	4,186.82	3/4	3,829.18	3/4	3,471.53	3/4	3,113.88	3/4	2,756.23	3/4	2,398.58	3/4	2,040.93	3/4	1,683.29	3/4	1,325.64	3/4	967.99		
6	6	6	6	6	4,894.67	6	4,537.02	6	4,179.37	6	3,821.72	6	3,464.08	6	3,106.43	6	2,748.78	6	2,391.13	6	2,033.48	6	1,675.84	6	1,318.19	6	960.54		
1/4	1/4	1/4	1/4	1/4	4,887.22	1/4	4,529.57	1/4	4,171.92	1/4	3,814.27	1/4	3,456.62	1/4	3,098.98	1/4	2,741.33	1/4	2,383.68	1/4	2,026.03	1/4	1,668.38	1/4	1,310.74	1/4	953.09		
1/2	1/2	1/2	1/2	1/2	4,879.77	1/2	4,522.12	1/2	4,164.47	1/2	3,806.82	1/2	3,449.17	1/2	3,091.53	1/2	2,733.88	1/2	2,376.23	1/2	2,018.58	1/2	1,660.93	1/2	1,303.29	1/2	945.64		
3/4	3/4	3/4	3/4	3/4	4,872.32	3/4	4,514.67	3/4	4,157.02	3/4	3,799.37	3/4	3,441.72	3/4	3,084.07	3/4	2,726.43	3/4	2,368.78	3/4	2,011.13	3/4	1,653.48	3/4	1,295.83	3/4	938.19		
7	7	7	7	7	4,864.86	7	4,507.22	7	4,149.57	7	3,791.92	7	3,434.27	7	3,076.62	7	2,718.98	7	2,361.33	7	2,003.68	7	1,646.03	7	1,288.38	7	930.74		
1/4	1/4	1/4	1/4	1/4	4,857.41	1/4	4,499.77	1/4	4,142.12	1/4	3,784.47	1/4	3,426.82	1/4	3,069.17	1/4	2,711.52	1/4	2,353.88	1/4	1,996.23	1/4	1,638.58	1/4	1,280.93	1/4	923.28		
1/2	1/2	1/2	1/2	1/2	4,849.96	1/2	4,492.31	1/2	4,134.67	1/2	3,777.02	1/2	3,419.37	1/2	3,061.72	1/2	2,704.07	1/2	2,346.43	1/2	1,988.78	1/2	1,631.13	1/2	1,273.48	1/2	915.83		
3/4	3/4	3/4	3/4	3/4	4,842.51	3/4	4,484.86	3/4	4,127.22	3/4	3,769.57	3/4	3,411.92	3/4	3,054.27	3/4	2,696.62	3/4	2,338.97	3/4	1,981.33	3/4	1,623.68	3/4	1,266.03	3/4	908.38		
8	8	8	8	8	4,835.06	8	4,477.41	8	4,119.76	8	3,762.12	8	3,404.47	8	3,046.82	8	2,689.17	8	2,331.52	8	1,973.88	8	1,616.23	8	1,258.58	8	900.93		
1/4	1/4	1/4	1/4	1/4	4,827.61	1/4	4,469.96	1/4	4,112.31	1/4	3,754.67	1/4	3,397.02	1/4	3,039.37	1/4	2,681.72	1/4	2,324.07	1/4	1,966.42	1/4	1,608.78	1/4	1,251.13	1/4	893.48		
1/2	1/2	1/2	1/2	1/2	5,086.72	1/2	4,820.16	1/2	4,462.51	1/2	4,104.86	1/2	3,747.21	1/2	3,389.57	1/2	3,031.92	1/2	2,674.27	1/2	2,316.62	1/2	1,958.97	1/2	1,601.33	1/2	886.03		
3/4	3/4	3/4	3/4	3/4	5,086.30	3/4	4,812.71	3/4	4,455.06	3/4	4,097.41	3/4	3,739.76	3/4	3,382.11	3/4	3,024.47	3/4	2,666.82	3/4	2,309.17	3/4	1,951.52	3/4	1,593.87	3/4	878.58		
9	9	9	9	9	5,085.89	9	4,805.26	9	4,447.61	9	4,089.96	9	3,732.31	9	3,374.66	9	3,017.02	9	2,659.37	9	2,301.72	9	1,944.07	9	1,586.42	9	871.13		
1/4	1/4	1/4	1/4	1/4	5,084.48	1/4	4,797.81	1/4	4,440.16	1/4	4,082.51	1/4	3,724.86	1/4	3,367.21	1/4	3,009.56	1/4	2,651.92	1/4	2,294.27	1/4	1,936.62	1/4	1,578.97	1/4	863.68		
1/2	1/2	1/2	1/2	1/2	5,083.06	1/2	4,790.35	1/2	4,432.71	1/2	4,075.06	1/2	3,717.41	1/2	3,359.76	1/2	3,002.11	1/2	2,644.47	1/2	2,286.82	1/2	1,929.17	1/2	1,571.52	1/2	856.23		
3/4	3/4	3/4	3/4	3/4	5,081.65	3/4	4,782.90	3/4	4,425.26	3/4	4,067.61	3/4	3,709.96	3/4	3,352.31	3/4	2,994.66	3/4	2,637.01	3/4	2,279.37	3/4	1,921.72	3/4	1,564.07	3/4	848.77		
10	10	10	10	10	5,080.24	10	4,775.45	10	4,417.80	10	4,060.16	10	3,702.51	10	3,344.86	10	2,987.21	10	2,629.56	10	2,271.92	10	1,914.27	10	1,556.62	10	841.32		
1/4	1/4	1/4	1/4	1/4	5,077.69	1/4	4,768.00	1/4	4,410.35	1/4	4,052.71	1/4	3,695.06	1/4	3,337.41	1/4	2,979.76	1/4	2,622.11	1/4	2,2								



BARGE "HFL-435" HINES FURLONG LINE

OUTGAGE TABLE

1 PORT OR STAR

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

HULL NO. 4859

IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.	IN	20 FT.	IN	21 FT.	IN	22 FT.	IN	23 FT.	IN	24 FT.	IN	25 FT.	IN	26 FT.	IN	27 FT.	IN	28 FT.	IN	29 FT.
0	781.72	0	423.05	0	86.22	0		0		0		0		0		0		0		0		0		0		0		0	
1/4	774.26	1/4	415.60	1/4	79.75	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	766.81	1/2	408.14	1/2	73.29	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	759.36	3/4	400.69	3/4	66.82	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
1	751.91	1	393.24	1	60.36	1		1		1		1		1		1		1		1		1		1		1		1	
1/4	744.46	1/4	385.91	1/4	54.02	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	737.01	1/2	378.58	1/2	47.68	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	729.56	3/4	371.26	3/4	41.78	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
2	722.11	2	363.93	2	35.87	2		2		2		2		2		2		2		2		2		2		2		2	
1/4	714.66	1/4	356.60	1/4	31.26	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	707.21	1/2	349.27	1/2	26.64	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	699.75	3/4	341.94	3/4	22.03	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
3	692.30	3	334.62	3	17.42	3		3		3		3		3		3		3		3		3		3		3		3	
1/4	684.85	1/4	327.41	1/4	14.41	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	677.40	1/2	320.21	1/2	11.41	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	669.95	3/4	313.00	3/4	8.40	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
4	662.50	4	305.80	4	5.40	4		4		4		4		4		4		4		4		4		4		4		4	
1/4	655.05	1/4	298.60	1/4	4.12	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	647.60	1/2	291.39	1/2	2.84	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	640.15	3/4	284.19	3/4	* 1.56	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
5	632.70	5	276.98	5		5		5		5		5		5		5		5		5		5		5		5		5	
1/4	625.24	1/4	269.91	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	617.79	1/2	262.83	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	610.34	3/4	255.76	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
6	602.89	6	248.68	6		6		6		6		6		6		6		6		6		6		6		6		6	
1/4	595.44	1/4	241.60	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	587.99	1/2	234.53	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	580.54	3/4	227.45	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7	573.09	7	220.38	7		7		7		7		7		7		7		7		7		7		7		7		7	
1/4	565.64	1/4	213.42	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	558.19	1/2	206.47	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	550.73	3/4	199.52	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8	543.28	8	192.57	8		8		8		8		8		8		8		8		8		8		8		8		8	
1/4	535.83	1/4	185.62	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	528.38	1/2	178.66	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	520.93	3/4	171.71	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	513.48	9	164.76	9		9		9		9		9		9		9		9		9		9		9		9		9	
1/4	505.90	1/4	158.17	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	498.32	1/2	151.59	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	490.75	3/4	145.00	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	483.17	10	138.42	10		10		10		10		10		10		10		10		10		10		10		10		10	
1/4	475.59	1/4	131.83	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	468.01	1/2	125.24	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	460.43	3/4	118.66	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	452.86	11	112.07	11		11		11		11		11		11		11		11		11		11		11		11		11	
1/4	445.40	1/4	105.61	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	437.95	1/2	99.14	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	430.50	3/4	92.68	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

STRAPPED: 12/28/11

* CAPACITY BELOW STRIKE POINT.

REFERENCE GAUGE HEIGHT : 17'-4 3/4" (TO RIM OF 2" DIAMETER BALL VALVE)

FORMER EBL 2986

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

INSPECTORATE AMERICA CORPORATION



BARGE "HFL-435" HINES FURLONG LINE

INNAGE TABLE

1 PORT OR STAR

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

HULL NO. 4859

		0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.		10 FT.		11 FT.		12 FT.		13 FT.		14 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	*	1.56	0	284.19	0	640.15	0	997.80	0	1,355.44	0	1,713.09	0	2,070.74	0	2,428.39	0	2,786.04	0	3,143.68	0	3,501.33	0	3,858.98	0	4,216.63	0	4,574.28	0	4,931.92	
1/4		2.84	1/4	291.39	1/4	647.60	1/4	1,005.25	1/4	1,362.89	1/4	1,720.54	1/4	2,078.19	1/4	2,435.84	1/4	2,793.49	1/4	3,151.13	1/4	3,508.78	1/4	3,866.43	1/4	4,224.08	1/4	4,581.73	1/4	4,939.37	
1/2		4.12	1/2	298.60	1/2	655.05	1/2	1,012.70	1/2	1,370.35	1/2	1,727.99	1/2	2,085.64	1/2	2,443.29	1/2	2,800.94	1/2	3,158.59	1/2	3,516.23	1/2	3,873.88	1/2	4,231.53	1/2	4,589.18	1/2	4,946.83	
3/4		5.40	3/4	305.80	3/4	662.50	3/4	1,020.15	3/4	1,377.80	3/4	1,735.44	3/4	2,093.09	3/4	2,450.74	3/4	2,808.39	3/4	3,166.04	3/4	3,523.68	3/4	3,881.33	3/4	4,238.98	3/4	4,596.63	3/4	4,954.28	
1		8.40	1	313.00	1	669.95	1	1,027.60	1	1,385.25	1	1,742.90	1	2,100.54	1	2,458.19	1	2,815.84	1	3,173.49	1	3,531.14	1	3,888.78	1	4,246.43	1	4,604.08	1	4,961.73	
1/4		11.41	1/4	320.21	1/4	677.40	1/4	1,035.05	1/4	1,392.70	1/4	1,750.35	1/4	2,107.99	1/4	2,465.64	1/4	2,823.29	1/4	3,180.94	1/4	3,538.59	1/4	3,896.23	1/4	4,253.88	1/4	4,611.53	1/4	4,969.18	
1/2		14.41	1/2	327.41	1/2	684.85	1/2	1,042.50	1/2	1,400.15	1/2	1,757.80	1/2	2,115.45	1/2	2,473.09	1/2	2,830.74	1/2	3,188.39	1/2	3,546.04	1/2	3,903.69	1/2	4,261.33	1/2	4,618.98	1/2	4,976.63	
3/4		17.42	3/4	334.62	3/4	692.30	3/4	1,049.95	3/4	1,407.60	3/4	1,765.25	3/4	2,122.90	3/4	2,480.54	3/4	2,838.19	3/4	3,195.84	3/4	3,553.49	3/4	3,911.14	3/4	4,268.78	3/4	4,626.43	3/4	4,984.08	
2		22.03	2	341.94	2	699.76	2	1,057.40	2	1,415.05	2	1,772.70	2	2,130.35	2	2,488.00	2	2,845.64	2	3,203.29	2	3,560.94	2	3,918.59	2	4,276.24	2	4,633.88	2	4,991.15	
1/4		26.64	1/4	349.27	1/4	707.21	1/4	1,064.85	1/4	1,422.50	1/4	1,780.15	1/4	2,137.80	1/4	2,495.45	1/4	2,853.09	1/4	3,210.74	1/4	3,568.39	1/4	3,926.04	1/4	4,283.69	1/4	4,641.33	1/4	4,998.22	
1/2		31.26	1/2	356.60	1/2	714.66	1/2	1,072.31	1/2	1,429.95	1/2	1,787.60	1/2	2,145.25	1/2	2,502.90	1/2	2,860.55	1/2	3,218.19	1/2	3,575.84	1/2	3,933.49	1/2	4,291.14	1/2	4,648.79	1/2	5,005.30	
3/4		35.87	3/4	363.93	3/4	722.11	3/4	1,079.76	3/4	1,437.40	3/4	1,795.05	3/4	2,152.70	3/4	2,510.35	3/4	2,868.00	3/4	3,225.64	3/4	3,583.29	3/4	3,940.94	3/4	4,298.59	3/4	4,656.24	3/4	5,012.37	
3		41.78	3	371.26	3	729.56	3	1,087.21	3	1,444.86	3	1,802.50	3	2,160.15	3	2,517.80	3	2,875.45	3	3,233.10	3	3,590.74	3	3,948.39	3	4,306.04	3	4,663.69	3	5,018.31	
1/4		47.68	1/4	378.58	1/4	737.01	1/4	1,094.66	1/4	1,452.31	1/4	1,809.95	1/4	2,167.60	1/4	2,525.25	1/4	2,882.90	1/4	3,240.55	1/4	3,598.19	1/4	3,955.84	1/4	4,313.49	1/4	4,671.14	1/4	5,024.25	
1/2		54.02	1/2	385.91	1/2	744.46	1/2	1,102.11	1/2	1,459.76	1/2	1,817.41	1/2	2,175.05	1/2	2,532.70	1/2	2,890.35	1/2	3,248.00	1/2	3,605.65	1/2	3,963.29	1/2	4,320.94	1/2	4,678.59	1/2	5,030.19	
3/4		60.36	3/4	393.24	3/4	751.91	3/4	1,109.56	3/4	1,467.21	3/4	1,824.86	3/4	2,182.50	3/4	2,540.15	3/4	2,897.80	3/4	3,255.45	3/4	3,613.10	3/4	3,970.74	3/4	4,328.39	3/4	4,686.04	3/4	5,036.14	
4		66.82	4	400.69	4	759.36	4	1,117.01	4	1,474.66	4	1,832.31	4	2,189.96	4	2,547.60	4	2,905.25	4	3,262.90	4	3,620.55	4	3,978.20	4	4,335.84	4	4,693.49	4	5,049.94	
1/4		73.29	1/4	408.14	1/4	766.81	1/4	1,124.46	1/4	1,482.11	1/4	1,839.76	1/4	2,197.41	1/4	2,555.05	1/4	2,912.70	1/4	3,270.35	1/4	3,628.00	1/4	3,985.65	1/4	4,343.29	1/4	4,700.94	1/4	5,045.75	
1/2		79.75	1/2	415.60	1/2	774.27	1/2	1,131.91	1/2	1,489.56	1/2	1,847.21	1/2	2,204.86	1/2	2,562.51	1/2	2,920.15	1/2	3,277.80	1/2	3,635.45	1/2	3,993.10	1/2	4,350.75	1/2	4,708.39	1/2	5,050.55	
3/4		86.22	3/4	423.05	3/4	781.72	3/4	1,139.36	3/4	1,497.01	3/4	1,854.66	3/4	2,212.31	3/4	2,569.96	3/4	2,927.60	3/4	3,285.25	3/4	3,642.90	3/4	4,000.55	3/4	4,358.20	3/4	4,715.84	3/4	5,055.36	
5		92.68	5	430.50	5	789.17	5	1,146.82	5	1,504.46	5	1,862.11	5	2,219.76	5	2,577.41	5	2,935.06	5	3,292.70	5	3,650.35	5	4,008.00	5	4,365.65	5	4,723.30	5	5,059.03	
1/4		99.14	1/4	437.95	1/4	796.62	1/4	1,154.27	1/4	1,511.91	1/4	1,869.56	1/4	2,227.21	1/4	2,584.86	1/4	2,942.51	1/4	3,300.15	1/4	3,657.80	1/4	4,015.45	1/4	4,373.10	1/4	4,730.75	1/4	5,062.71	
1/2		105.61	1/2	445.40	1/2	804.07	1/2	1,161.72	1/2	1,519.37	1/2	1,877.01	1/2	2,234.66	1/2	2,592.31	1/2	2,949.96	1/2	3,307.61	1/2	3,665.25	1/2	4,022.90	1/2	4,380.55	1/2	4,738.20	1/2	5,066.38	
3/4		112.07	3/4	452.86	3/4	811.52	3/4	1,169.17	3/4	1,526.82	3/4	1,884.46	3/4	2,242.11	3/4	2,599.76	3/4	2,957.41	3/4	3,315.06	3/4	3,672.70	3/4	4,030.35	3/4	4,388.00	3/4	4,745.65	3/4	5,070.06	
6		118.66	6	460.43	6	818.97	6	1,176.62	6	1,534.27	6	1,891.92	6	2,249.56	6	2,607.21	6	2,964.86	6	3,322.51	6	3,680.16	6	4,037.80	6	4,395.45	6	4,753.10	6	5,072.60	
1/4		125.24	1/4	468.01	1/4	826.42	1/4	1,184.07	1/4	1,541.72	1/4	1,899.37	1/4	2,257.01	1/4	2,614.66	1/4	2,972.31	1/4	3,329.96	1/4	3,687.61	1/4	4,045.25	1/4	4,402.90	1/4	4,760.55	1/4	5,075.15	
1/2		131.83	1/2	475.59	1/2	833.87	1/2	1,191.52	1/2	1,549.17	1/2	1,906.82	1/2	2,264.47	1/2	2,622.11	1/2	2,979.76	1/2	3,337.41	1/2	3,695.06	1/2	4,052.71	1/2	4,410.35	1/2	4,768.00	1/2	5,077.69	
3/4		138.42	3/4	483.17	3/4	841.32	3/4	1,198.97	3/4	1,556.62	3/4	1,914.27	3/4	2,271.92	3/4	2,629.56	3/4	2,987.21	3/4	3,344.86	3/4	3,702.51	3/4	4,060.16	3/4	4,417.80	3/4	4,775.45	3/4	5,080.24	
7		145.00	7	490.75	7	848.78	7	1,206.42	7	1,564.07	7	1,921.72	7	2,279.37	7	2,637.02	7	2,994.66	7	3,352.31	7	3,709.96	7	4,067.61	7	4,425.26	7	4,782.90	7	5,081.65	
1/4		151.59	1/4	498.32	1/4	856.23	1/4	1,213.87	1/4	1,571.52	1/4	1,929.17	1/4	2,286.82	1/4	2,644.47	1/4	3,002.11	1/4	3,359.76	1/4	3,717.41	1/4	4,075.06	1/4	4,432.71	1/4	4,790.35	1/4	5,083.06	
1/2		158.17	1/2	505.90	1/2	863.68	1/2	1,221.33	1/2	1,578.97	1/2	1,936.62	1/2	2,294.27	1/2	2,651.92	1/2	3,009.57	1/2	3,367.21	1/2	3,724.86	1/2	4,082.51	1/2	4,440.16	1/2	4,797.81	1/2	5,084.48	
3/4		164.76	3/4	513.48	3/4	871.13	3/4	1,228.78	3/4	1,586.42	3/4	1,944.07	3/4	2,301.72	3/4	2,659.37	3/4	3,017.02	3/4	3,374.66	3/4	3,732.31	3/4	4,089.96	3/4	4,447.61	3/4	4,805.26	3/4	5,085.89	
8		171.71	8	520.93	8	878.58	8	1,236.23	8	1,593.88	8	1,951.52	8	2,309.17	8	2,666.82	8	3,024.47	8	3,382.12	8	3,739.76	8	4,097.41	8	4,455.06	8	4,812.71	8	5,086.30	
1/4		178.66	1/4	528.38	1/4	886.03	1/4	1,243.68	1/4	1,601.33	1/4	1,958.97	1/4	2,316.62	1/4	2,674.27	1/4	3,031.92	1/4	3,389.57	1/4	3,747.21	1/4	4,1							



**BARGE "HFL-435"
HINES FURLONG LINE
INNAGE TABLE**

TANK NO.
SLOP
(FWD OR AFT)

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

HULL NO. 4859

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.	IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.
0	0	0	451	0	903	0	1,354	0	1,805	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1/4	9	1/4	461	1/4	912	1/4	1,363	1/4	1,815	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	
1/2	19	1/2	470	1/2	921	1/2	1,373	1/2	1,824	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	
3/4	28	3/4	480	3/4	931	3/4	1,382	3/4	1,834	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	
1	38	1	489	1	940	1	1,392	1	1,843	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
1/4	47	1/4	498	1/4	950	1/4	1,401	1/4	1,852	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	
1/2	56	1/2	508	1/2	959	1/2	1,410	1/2	1,862	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	
3/4	66	3/4	517	3/4	969	3/4	1,420	3/4	1,871	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	
2	75	2	527	2	978	2	1,429	2	1,881	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
1/4	85	1/4	536	1/4	987	1/4	1,439	1/4	1,890	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	
1/2	94	1/2	545	1/2	997	1/2	1,448	1/2	1,899	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	
3/4	103	3/4	555	3/4	1,006	3/4	1,457	3/4	1,909	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	
3	113	3	564	3	1,016	3	1,467	3	1,918	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
1/4	122	1/4	574	1/4	1,025	1/4	1,476	1/4	1,928	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	
1/2	132	1/2	583	1/2	1,034	1/2	1,486	1/2	1,937	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	
3/4	141	3/4	592	3/4	1,044	3/4	1,495	3/4	1,946	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	
4	150	4	602	4	1,053	4	1,504	4	1,956	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
1/4	160	1/4	611	1/4	1,063	1/4	1,514	1/4	1,965	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	
1/2	169	1/2	621	1/2	1,072	1/2	1,523	1/2	1,975	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	
3/4	179	3/4	630	3/4	1,081	3/4	1,533	3/4	1,984	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	
5	188	5	639	5	1,091	5	1,542	5	1,993	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
1/4	197	1/4	649	1/4	1,100	1/4	1,551	1/4	2,003	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	
1/2	207	1/2	658	1/2	1,110	1/2	1,561	1/2	2,012	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	
3/4	216	3/4	668	3/4	1,119	3/4	1,570	3/4	2,022	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	
6	226	6	677	6	1,128	6	1,580	6	2,031	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
1/4	235	1/4	686	1/4	1,138	1/4	1,589	1/4	1,589	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	
1/2	244	1/2	696	1/2	1,147	1/2	1,599	1/2	1,599	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	
3/4	254	3/4	705	3/4	1,157	3/4	1,608	3/4	1,608	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	
7	263	7	715	7	1,166	7	1,617	7	1,617	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
1/4	273	1/4	724	1/4	1,175	1/4	1,627	1/4	1,627	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	
1/2	282	1/2	733	1/2	1,185	1/2	1,636	1/2	1,636	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	
3/4	291	3/4	743	3/4	1,194	3/4	1,646	3/4	1,646	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	
8	301	8	752	8	1,204	8	1,655	8	1,655	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
1/4	310	1/4	762	1/4	1,213	1/4	1,664	1/4	1,664	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	
1/2	320	1/2	771	1/2	1,222	1/2	1,674	1/2	1,674	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	
3/4	329	3/4	780	3/4	1,232	3/4	1,683	3/4	1,683	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	
9	339	9	790	9	1,241	9	1,693	9	1,693	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	
1/4	348	1/4	799	1/4	1,251	1/4	1,702	1/4	1,702	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	
1/2	357	1/2	809	1/2	1,260	1/2	1,711	1/2	1,711	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	
3/4	367	3/4	818	3/4	1,269	3/4	1,721	3/4	1,721	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	
10	376	10	827	10	1,279	10	1,730	10	1,730	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
1/4	386	1/4	837	1/4	1,288	1/4	1,740	1/4	1,740	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	
1/2	395	1/2	846	1/2	1,298	1/2	1,749	1/2	1,749	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	
3/4	404	3/4	856	3/4	1,307	3/4	1,758	3/4	1,758	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	
11	414	11	865	11	1,316	11	1,768	11	1,768	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	
1/4	423	1/4	874	1/4	1,326	1/4	1,777	1/4	1,777	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	
1/2	433	1/2	884	1/2	1,335	1/2	1,787	1/2	1,787	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	
3/4	442	3/4	893	3/4	1,345	3/4	1,796	3/4	1,796	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	

CAPACITIES GIVEN IN U.S. GALLONS
FORMER 2986

STRAPPED: 12/28/11

REFERENCE GAUGE HEIGHT : 5'-6 3/4" (RIM OF 2" DIAMETER BALL VALVE)

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



BARGE "HFL-435" HINES FURLONG LINE

TANK NO.
FUEL OIL TANK

INNAGE TABLE

HULL NO. 4859

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.	IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.
0	0	0	116	0	288	0	442	0		0		0		0		0		0		0		0		0		0		0	
1/4	0	1/4	119	1/4	292	1/4	445	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1	1/2	122	1/2	296	1/2	447	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2	3/4	126	3/4	299	3/4	450	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
1	3	1	129	1	303	1	452	1		1		1		1		1		1		1		1		1		1		1	
1/4	4	1/4	132	1/4	307	1/4	454	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	6	1/2	136	1/2	310	1/2	456	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	7	3/4	139	3/4	314	3/4	458	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
2	9	2	143	2	317	2	460	2		2		2		2		2		2		2		2		2		2		2	
1/4	10	1/4	146	1/4	321	1/4	462	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	12	1/2	150	1/2	324	1/2	464	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	14	3/4	153	3/4	328	3/4	466	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
3	16	3	157	3	331	3	468	3		3		3		3		3		3		3		3		3		3		3	
1/4	18	1/4	161	1/4	335	1/4	469	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	20	1/2	164	1/2	338	1/2	471	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	22	3/4	168	3/4	342	3/4	472	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
4	24	4	171	4	345	4	474	4		4		4		4		4		4		4		4		4		4		4	
1/4	26	1/4	175	1/4	349	1/4	475	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	28	1/2	178	1/2	353	1/2	476	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	31	3/4	182	3/4	356	3/4	477	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
5	33	5	186	5	359	5	477	5		5		5		5		5		5		5		5		5		5		5	
1/4	35	1/4	189	1/4	363	1/4	478	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	38	1/2	193	1/2	366	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	40	3/4	197	3/4	369	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
6	43	6	200	6	372	6	6	6		6		6		6		6		6		6		6		6		6		6	
1/4	46	1/4	204	1/4	376	1/4	6	6		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	48	1/2	208	1/2	379	1/2	6	6		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	51	3/4	211	3/4	382	3/4	6	6		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7	54	7	215	7	385	7	7	7		7		7		7		7		7		7		7		7		7		7	
1/4	57	1/4	219	1/4	388	1/4	7	7		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	59	1/2	222	1/2	391	1/2	7	7		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	62	3/4	226	3/4	395	3/4	7	7		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8	65	8	230	8	398	8	8	8		8		8		8		8		8		8		8		8		8		8	
1/4	68	1/4	233	1/4	401	1/4	8	8		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	71	1/2	237	1/2	404	1/2	8	8		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	74	3/4	241	3/4	407	3/4	8	8		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	77	9	244	9	410	9	9	9		9		9		9		9		9		9		9		9		9		9	
1/4	80	1/4	248	1/4	413	1/4	9	9		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	83	1/2	252	1/2	416	1/2	9	9		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	86	3/4	255	3/4	418	3/4	9	9		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	89	10	259	10	421	10	10	10		10		10		10		10		10		10		10		10		10		10	
1/4	93	1/4	263	1/4	424	1/4	10	10		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	96	1/2	267	1/2	427	1/2	10	10		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	99	3/4	270	3/4	430	3/4	10	10		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	102	11	274	11	432	11	11	11		11		11		11		11		11		11		11		11		11		11	
1/4	106	1/4	278	1/4	435	1/4	11	11		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	109	1/2	281	1/2	437	1/2	11	11		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	112	3/4	285	3/4	440	3/4	11	11		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CAPACITIES GIVEN IN U.S. GALLONS

STRAPPED: 12/28/11

NOTE: TABLE SCALED FROM EXTREME BOTTOM OF TANK.

REFERENCE GAUGE HEIGHT : 3'-10 1/2" (TO RIM OF 2" PIPE)

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

FORMER EBL 2986

INSPECTORATE AMERICA CORPORATION



BARGE "HFL-435" HINES FURLONG LINE OUTAGE TABLE

3 PORT OR STAR

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

HULL NO. 4859

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.		10 FT.		11 FT.		12 FT.		13 FT.		14 FT.			
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0		0		0	4,644.03	0	4,391.97	0	4,138.34	0	3,884.71	0	3,631.08	0	3,302.74	0	2,940.01	0	2,577.27	0	2,214.53	0	1,851.80	0	1,489.06	0	1,126.33		
1/4		1/4		1/4		1/4	4,639.14	1/4	4,386.69	1/4	4,133.06	1/4	3,879.43	1/4	3,625.79	1/4	3,295.19	1/4	2,932.45	1/4	2,569.71	1/4	2,206.98	1/4	1,844.24	1/4	1,481.51	1/4	1,118.77		
1/2		1/2		1/2		1/2	4,634.25	1/2	4,381.41	1/2	4,127.77	1/2	3,874.14	1/2	3,620.51	1/2	3,287.63	1/2	2,924.89	1/2	2,562.16	1/2	2,199.42	1/2	1,836.68	1/2	1,473.95	1/2	1,111.21		
3/4		3/4		3/4		3/4	4,629.36	3/4	4,376.12	3/4	4,122.49	3/4	3,868.86	3/4	3,615.10	3/4	3,280.07	3/4	2,917.34	3/4	2,554.60	3/4	2,191.86	3/4	1,829.13	3/4	1,466.39	3/4	1,103.66		
1		1		1		1	4,624.47	1	4,370.84	1	4,117.21	1	3,863.57	1	3,609.69	1	3,272.51	1	2,909.78	1	2,547.04	1	2,184.31	1	1,821.57	1	1,458.83	1	1,096.10		
1/4		1/4		1/4		1/4	4,619.19	1/4	4,365.55	1/4	4,111.92	1/4	3,858.29	1/4	3,604.27	1/4	3,264.96	1/4	2,902.22	1/4	2,539.49	1/4	2,176.75	1/4	1,814.01	1/4	1,451.28	1/4	1,088.54		
1/2		1/2		1/2		1/2	4,613.90	1/2	4,360.27	1/2	4,106.64	1/2	3,853.01	1/2	3,598.56	1/2	3,257.40	1/2	2,894.66	1/2	2,531.93	1/2	2,169.19	1/2	1,806.46	1/2	1,443.72	1/2	1,080.98		
3/4		3/4		3/4		3/4	4,608.62	3/4	4,354.99	3/4	4,101.35	3/4	3,847.72	3/4	3,592.84	3/4	3,249.84	3/4	2,887.11	3/4	2,524.37	3/4	2,161.64	3/4	1,798.90	3/4	1,436.16	3/4	1,073.43		
2		2		2		2	4,603.33	2	4,349.70	2	4,096.07	2	3,842.44	2	3,587.13	2	3,242.29	2	2,879.55	2	2,516.81	2	2,154.08	2	1,791.34	2	1,428.61	2	1,065.87		
1/4		1/4		1/4		1/4	4,598.05	1/4	4,344.42	1/4	4,090.79	1/4	3,837.15	1/4	3,581.41	1/4	3,234.73	1/4	2,871.99	1/4	2,509.26	1/4	2,146.52	1/4	1,783.79	1/4	1,421.05	1/4	1,058.31		
1/2		1/2		1/2		1/2	4,592.77	1/2	4,339.13	1/2	4,085.50	1/2	3,831.87	1/2	3,575.35	1/2	3,227.17	1/2	2,864.44	1/2	2,501.70	1/2	2,138.96	1/2	1,776.23	1/2	1,413.49	1/2	1,050.76		
3/4		3/4		3/4		3/4	4,587.48	3/4	4,333.85	3/4	4,080.22	3/4	3,826.59	3/4	3,569.28	3/4	3,219.62	3/4	2,856.88	3/4	2,494.14	3/4	2,131.41	3/4	1,768.67	3/4	1,405.94	3/4	1,043.20		
3		3		3		3	4,582.20	3	4,328.57	3	4,074.93	3	3,821.30	3	3,563.22	3	3,212.06	3	2,849.32	3	2,486.59	3	2,123.85	3	1,761.11	3	1,398.38	3	1,035.64		
1/4		1/4		1/4		1/4	4,576.91	1/4	4,323.28	1/4	4,069.65	1/4	3,816.02	1/4	3,557.16	1/4	3,204.50	1/4	2,841.77	1/4	2,479.03	1/4	2,116.29	1/4	1,753.56	1/4	1,390.82	1/4	1,028.07		
1/2		1/2		1/2		1/2	4,571.63	1/2	4,318.00	1/2	4,064.37	1/2	3,810.73	1/2	3,550.75	1/2	3,196.94	1/2	2,834.21	1/2	2,471.47	1/2	2,108.74	1/2	1,746.00	1/2	1,382.26	1/2	1,020.49		
3/4		3/4		3/4		3/4	4,566.35	3/4	4,312.71	3/4	4,059.08	3/4	3,805.45	3/4	3,544.34	3/4	3,189.39	3/4	2,826.65	3/4	2,463.92	3/4	2,101.18	3/4	1,738.44	3/4	1,375.71	3/4	1,012.91		
4		4		4		4	4,561.06	4	4,307.43	4	4,053.80	4	3,800.17	4	3,537.94	4	3,181.83	4	2,819.09	4	2,456.36	4	2,093.62	4	1,730.89	4	1,368.15	4	1,005.33		
1/4		1/4		1/4		1/4	4,555.78	1/4	4,302.15	1/4	4,048.51	1/4	3,794.88	1/4	3,531.53	1/4	3,174.27	1/4	2,811.54	1/4	2,448.80	1/4	2,086.07	1/4	1,723.33	1/4	1,360.59	1/4	997.76		
1/2		1/2		1/2		1/2	4,550.49	1/2	4,296.86	1/2	4,043.23	1/2	3,789.60	1/2	3,524.78	1/2	3,166.72	1/2	2,803.98	1/2	2,441.24	1/2	2,078.51	1/2	1,715.77	1/2	1,353.04	1/2	990.18		
3/4		3/4		3/4		3/4	4,545.21	3/4	4,291.58	3/4	4,037.95	3/4	3,784.31	3/4	3,518.02	3/4	3,159.16	3/4	2,796.42	3/4	2,433.69	3/4	2,070.95	3/4	1,708.22	3/4	1,345.48	3/4	982.60		
5		5		5		5	4,539.93	5	4,286.29	5	4,032.66	5	3,779.03	5	3,511.27	5	3,151.60	5	2,788.87	5	2,426.13	5	2,063.39	5	1,700.66	5	1,337.92	5	975.03		
1/4		1/4		1/4		1/4	4,534.64	1/4	4,281.01	1/4	4,027.38	1/4	3,773.75	1/4	3,504.51	1/4	3,144.05	1/4	2,781.31	1/4	2,418.57	1/4	2,055.84	1/4	1,693.10	1/4	1,330.37	1/4	967.45		
1/2		1/2		1/2		1/2	4,529.36	1/2	4,275.73	1/2	4,022.09	1/2	3,768.46	1/2	3,497.41	1/2	3,136.49	1/2	2,773.75	1/2	2,411.02	1/2	2,048.28	1/2	1,685.54	1/2	1,322.81	1/2	959.87		
3/4		3/4		3/4		3/4	4,524.07	3/4	4,270.44	3/4	4,016.81	3/4	3,763.18	3/4	3,490.31	3/4	3,128.93	3/4	2,766.20	3/4	2,403.46	3/4	2,040.72	3/4	1,677.99	3/4	1,315.25	3/4	952.30		
6		6		6		6	4,518.79	6	4,265.16	6	4,011.53	6	3,757.89	6	3,483.21	6	3,121.37	6	2,758.64	6	2,395.90	6	2,033.17	6	1,670.43	6	1,307.69	6	944.72		
1/4		1/4	4,695.75	1/4	4,513.51	1/4	4,259.87	1/4	4,006.24	1/4	3,752.61	1/4	3,476.11	1/4	3,113.82	1/4	2,751.08	1/4	2,388.35	1/4	2,025.16	1/4	1,662.87	1/4	1,300.14	1/4	937.14				
1/2		1/2	4,695.46	1/2	4,508.22	1/2	4,254.59	1/2	4,000.96	1/2	3,747.33	1/2	3,468.67	1/2	3,106.26	1/2	2,743.52	1/2	2,380.79	1/2	2,018.05	1/2	1,655.32	1/2	1,292.58	1/2	929.56				
3/4		3/4	4,695.17	3/4	4,502.94	3/4	4,249.31	3/4	3,995.67	3/4	3,742.04	3/4	3,461.22	3/4	3,098.70	3/4	2,735.97	3/4	2,373.23	3/4	2,010.50	3/4	1,647.76	3/4	1,285.02	3/4	921.99				
7		7		7		7	4,494.88	7	4,497.65	7	4,244.02	7	3,990.39	7	3,736.76	7	3,453.77	7	3,091.15	7	2,728.41	7	2,365.67	7	2,002.94	7	1,640.20	7	1,277.47	7	914.41
1/4		1/4	4,693.90	1/4	4,492.37	1/4	4,238.74	1/4	3,985.11	1/4	3,731.47	1/4	3,446.33	1/4	3,083.59	1/4	2,720.85	1/4	2,358.12	1/4	1,995.38	1/4	1,632.65	1/4	1,269.91	1/4	906.83				
1/2		1/2	4,692.93	1/2	4,487.09	1/2	4,233.45	1/2	3,979.82	1/2	3,726.19	1/2	3,438.77	1/2	3,076.03	1/2	2,713.30	1/2	2,350.56	1/2	1,987.82	1/2	1,625.09	1/2	1,262.35	1/2	899.26				
3/4		3/4	4,691.95	3/4	4,481.80	3/4	4,228.17	3/4	3,974.54	3/4	3,720.91	3/4	3,431.21	3/4	3,068.48	3/4	2,705.74	3/4	2,343.00	3/4	1,980.27	3/4	1,617.53	3/4	1,254.80	3/4	891.68				
8		8		8		8	4,690.98	8	4,476.52	8	4,222.89	8	3,969.25	8	3,715.62	8	3,423.65	8	3,060.92	8	2,698.18	8	2,335.45	8	1,972.71	8	1,609.97	8	1,247.24	8	884.10
1/4		1/4	4,689.22	1/4	4,471.23	1/4	4,217.60	1/4	3,963.97	1/4	3,710.34	1/4	3,416.10	1/4	3,053.36	1/4	2,690.63	1/4	2,327.89	1/4	1,965.15	1/4	1,602.42	1/4	1,239.68	1/4	876.53				
1/2		1/2	4,687.46	1/2	4,465.95	1/2	4,212.32	1/2	3,958.69	1/2	3,705.05	1/2	3,408.54	1/2	3,045.80	1/2	2,683.07	1/2	2,320.33	1/2	1,957.60	1/2	1,594.86	1/2	1,232.12	1/2	868.95				
3/4		3/4	4,685.69	3/4	4,460.67	3/4	4,207.03	3/4	3,953.40	3/4	3,699.77	3/4	3,400.98	3/4	3,038.25	3/4	2,675.51	3/4	2,312.78	3/4	1,950.04	3/4	1,587.30	3/4	1,224.57	3/4	861.37				
9		9		9		9	4,683.93	9	4,455.38	9	4,201.75	9	3,948.12	9	3,694.49	9	3,393.43	9	3,030.69	9	2,667.95	9	2,305.22	9	1,942.48	9	1,579.75	9	1,217.01	9	853.79
1/4		1/4	4,681.39	1/4	4,450.10	1/4	4,196.47	1/4	3,942.83	1/4	3,689.20	1/4	3,385.87	1/4	3,023.13	1/4	2,660.40	1/4	2,297.66	1/4	1,934.93	1/4	1,572.19	1/4	1,209.45	1/4	846.22				
1/2		1/2	4,678.85	1/2	4,444.81	1/2	4,191.18	1/2	3,937.55	1/2	3,683.92	1/2	3,378.31	1/2	3,015.5																



BARGE "HFL-435" HINES FURLONG LINE OUTAGE TABLE

3 PORT OR STAR

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

HULL NO. 4859

15 FT.		16 FT.		17 FT.		18 FT.		19 FT.		20 FT.		21 FT.		22 FT.		23 FT.		24 FT.		25 FT.		26 FT.		27 FT.		28 FT.		29 FT.	
0	762.87	0	398.02	0	38.68	0		0		0		0		0		0		0		0		0		0		0		0	
1/4	755.29	1/4	390.41	1/4	33.48	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	747.72	1/2	382.80	1/2	28.29	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	740.14	3/4	375.20	3/4	23.10	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
1	732.56	1	367.59	1	17.91	1		1		1		1		1		1		1		1		1		1		1		1	
1/4	724.99	1/4	359.98	1/4	14.58	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	717.41	1/2	352.37	1/2	11.25	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	709.83	3/4	344.76	3/4	7.92	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
2	702.25	2	337.15	2	4.59	2		2		2		2		2		2		2		2		2		2		2		2	
1/4	694.68	1/4	329.54	1/4	3.51	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	687.10	1/2	321.93	1/2	2.44	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	679.52	3/4	314.32	3/4	* 1.36	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
3	671.95	3	306.71	3		3		3		3		3		3		3		3		3		3		3		3		3	
1/4	664.34	1/4	299.11	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	656.73	1/2	291.50	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	649.12	3/4	283.89	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
4	641.51	4	276.28	4		4		4		4		4		4		4		4		4		4		4		4		4	
1/4	633.90	1/4	268.67	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	626.29	1/2	261.06	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	618.68	3/4	253.45	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
5	611.07	5	245.84	5		5		5		5		5		5		5		5		5		5		5		5		5	
1/4	603.47	1/4	238.23	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	595.86	1/2	230.62	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	588.25	3/4	223.02	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
6	580.64	6	215.41	6		6		6		6		6		6		6		6		6		6		6		6		6	
1/4	573.03	1/4	207.80	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	565.42	1/2	200.19	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	557.81	3/4	192.58	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7	550.20	7	184.97	7		7		7		7		7		7		7		7		7		7		7		7		7	
1/4	542.59	1/4	177.60	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	534.98	1/2	170.23	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	527.38	3/4	162.86	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8	519.77	8	155.49	8		8		8		8		8		8		8		8		8		8		8		8		8	
1/4	512.16	1/4	148.13	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	504.55	1/2	140.76	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	496.94	3/4	133.39	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	489.33	9	126.02	9		9		9		9		9		9		9		9		9		9		9		9		9	
1/4	481.72	1/4	118.65	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	474.11	1/2	111.28	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	466.50	3/4	103.91	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	458.89	10	96.54	10		10		10		10		10		10		10		10		10		10		10		10		10	
1/4	451.29	1/4	89.17	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	443.68	1/2	81.80	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	436.07	3/4	74.44	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	428.46	11	67.07	11		11		11		11		11		11		11		11		11		11		11		11		11	
1/4	420.85	1/4	59.70	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	413.24	1/2	52.33	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	405.63	3/4	45.50	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

STRAPPED: 12/28/11

* CAPACITY BELOW STRIKE POINT.
FORMER EBL 2986

REFERENCE GAUGE HEIGHT : 17'-2 3/4" (TO RIM OF 10" DIAMETER HATCH
LOCATED ON MANWAY)

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