



KIRBY 21854



Barge Strapping Tables





BARGE "KIRBY 21854"

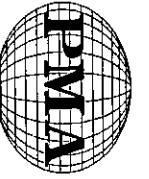
HORIZONTAL PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

FORMERLY "KEX 2601-A"

GAUGE HEIGHT 25'-00" 3/4"

IN	7 FT.	IN	8 FT.	IN	9 FT.	IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.		
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
1/4	10,643.89	1/4	10,237.34	1/4	9,775.56	1/4	9,116.65	1/4	8,456.37	1/4	7,763.53	1/4	7,024.84	1/4	6,264.91	1/4	5,493.88	1/4	4,717.83		
1/2	10,636.98	1/2	10,227.50	1/2	9,705.75	1/2	9,103.42	1/2	8,440.74	1/2	7,733.32	1/2	7,009.18	1/2	6,232.94	1/2	5,461.78	1/2	4,686.95	1/2	3,911.78
3/4	10,630.07	3/4	10,217.66	3/4	9,693.95	3/4	9,090.19	3/4	8,426.43	3/4	7,718.11	3/4	7,013.31	3/4	6,248.17	3/4	5,477.83	3/4	4,702.99	3/4	3,927.83
1	10,622.82	1	10,207.73	1	9,682.08	1	9,076.91	1	8,412.08	1	7,703.06	1	7,000.94	1	6,238.18	1	5,467.69	1	4,692.69	1	3,922.69
1/4	10,615.57	1/4	10,197.80	1/4	9,670.21	1/4	9,065.63	1/4	8,397.72	1/4	7,687.91	1/4	7,000.94	1/4	6,248.17	1/4	5,477.83	1/4	4,702.99	1/4	3,927.83
1/2	10,608.32	1/2	10,187.86	1/2	9,658.34	1/2	9,050.35	1/2	8,383.37	1/2	7,672.77	1/2	7,000.94	1/2	6,248.17	1/2	5,477.83	1/2	4,702.99	1/2	3,927.83
3/4	10,601.07	3/4	10,177.93	3/4	9,646.47	3/4	9,033.67	3/4	8,369.02	3/4	7,657.67	3/4	7,000.94	3/4	6,248.17	3/4	5,477.83	3/4	4,702.99	3/4	3,927.83
1	10,593.50	1	10,167.71	1	9,634.41	1	9,023.03	1	8,354.56	1	7,642.38	1	7,000.94	1	6,248.17	1	5,477.83	1	4,702.99	1	3,927.83
1/4	10,585.94	1/4	10,157.50	1/4	9,622.36	1/4	9,010.19	1/4	8,340.09	1/4	7,627.14	1/4	7,000.94	1/4	6,248.17	1/4	5,477.83	1/4	4,702.99	1/4	3,927.83
1/2	10,578.37	1/2	10,147.28	1/2	9,610.30	1/2	8,996.75	1/2	8,325.63	1/2	7,611.90	1/2	7,000.94	1/2	6,248.17	1/2	5,477.83	1/2	4,702.99	1/2	3,927.83
3/4	10,570.81	3/4	10,137.07	3/4	9,598.24	3/4	8,983.31	3/4	8,311.16	3/4	7,596.66	3/4	7,000.94	3/4	6,248.17	3/4	5,477.83	3/4	4,702.99	3/4	3,927.83
1	10,563.11	1	10,126.77	1	9,586.11	1	8,969.82	1	8,296.66	1	7,581.40	1	7,000.94	1	6,248.17	1	5,477.83	1	4,702.99	1	3,927.83
1/4	10,555.41	1/4	10,116.46	1/4	9,573.99	1/4	8,956.33	1/4	8,282.15	1/4	7,566.14	1/4	7,000.94	1/4	6,248.17	1/4	5,477.83	1/4	4,702.99	1/4	3,927.83
1/2	10,547.72	1/2	10,106.16	1/2	9,561.86	1/2	8,942.84	1/2	8,267.65	1/2	7,550.88	1/2	7,000.94	1/2	6,248.17	1/2	5,477.83	1/2	4,702.99	1/2	3,927.83
3/4	10,540.02	3/4	10,095.86	3/4	9,549.74	3/4	8,929.36	3/4	8,253.14	3/4	7,535.62	3/4	7,000.94	3/4	6,248.17	3/4	5,477.83	3/4	4,702.99	3/4	3,927.83
1	10,531.93	1	10,085.28	1	9,537.41	1	8,915.71	1	8,238.53	1	7,520.30	1	7,000.94	1	6,248.17	1	5,477.83	1	4,702.99	1	3,927.83
1/4	10,523.83	1/4	10,074.71	1/4	9,525.09	1/4	8,902.06	1/4	8,223.93	1/4	7,504.97	1/4	7,000.94	1/4	6,248.17	1/4	5,477.83	1/4	4,702.99	1/4	3,927.83
1/2	10,515.74	1/2	10,064.14	1/2	9,512.77	1/2	8,888.41	1/2	8,209.32	1/2	7,489.65	1/2	7,000.94	1/2	6,248.17	1/2	5,477.83	1/2	4,702.99	1/2	3,927.83
3/4	10,507.64	3/4	10,053.57	3/4	9,500.45	3/4	8,874.08	3/4	8,194.71	3/4	7,474.99	3/4	7,000.94	3/4	6,248.17	3/4	5,477.83	3/4	4,702.99	3/4	3,927.83
1	10,499.43	1	10,042.91	1	9,488.07	1	8,861.76	1	8,180.06	1	7,458.99	1	7,000.94	1	6,248.17	1	5,477.83	1	4,702.99	1	3,927.83
1/4	10,491.21	1/4	10,032.26	1/4	9,475.69	1/4	8,847.39	1/4	8,165.41	1/4	7,443.65	1/4	7,000.94	1/4	6,248.17	1/4	5,477.83	1/4	4,702.99	1/4	3,927.83
1/2	10,483.00	1/2	10,021.61	1/2	9,463.31	1/2	8,833.71	1/2	8,150.77	1/2	7,428.31	1/2	7,000.94	1/2	6,248.17	1/2	5,477.83	1/2	4,702.99	1/2	3,927.83
3/4	10,474.78	3/4	10,010.95	3/4	9,450.93	3/4	8,820.22	3/4	8,136.12	3/4	7,412.97	3/4	7,000.94	3/4	6,248.17	3/4	5,477.83	3/4	4,702.99	3/4	3,927.83
1	10,466.21	1	10,000.00	1	9,438.37	1	8,806.21	1	8,121.35	1	7,397.56	1	7,000.94	1	6,248.17	1	5,477.83	1	4,702.99	1	3,927.83
1/4	10,457.63	1/4	9,989.16	1/4	9,425.81	1/4	8,792.39	1/4	8,106.58	1/4	7,382.14	1/4	7,000.94	1/4	6,248.17	1/4	5,477.83	1/4	4,702.99	1/4	3,927.83
1/2	10,449.05	1/2	9,978.27	1/2	9,413.25	1/2	8,778.58	1/2	8,091.81	1/2	7,366.72	1/2	7,000.94	1/2	6,248.17	1/2	5,477.83	1/2	4,702.99	1/2	3,927.83
3/4	10,440.47	3/4	9,967.38	3/4	9,400.69	3/4	8,764.76	3/4	8,077.05	3/4	7,351.31	3/4	7,000.94	3/4	6,248.17	3/4	5,477.83	3/4	4,702.99	3/4	3,927.83
1	10,431.78	1	9,956.41	1	9,388.06	1	8,750.90	1	8,062.25	1	7,335.87	1	7,000.94	1	6,248.17	1	5,477.83	1	4,702.99	1	3,927.83
1/4	10,423.08	1/4	9,945.44	1/4	9,375.44	1/4	8,737.05	1/4	8,047.45	1/4	7,320.43	1/4	7,000.94	1/4	6,248.17	1/4	5,477.83	1/4	4,702.99	1/4	3,927.83
1/2	10,414.39	1/2	9,934.47	1/2	9,362.81	1/2	8,723.19	1/2	8,032.65	1/2	7,304.99	1/2	7,000.94	1/2	6,248.17	1/2	5,477.83	1/2	4,702.99	1/2	3,927.83
3/4	10,405.69	3/4	9,923.50	3/4	9,350.19	3/4	8,709.33	3/4	8,017.86	3/4	7,289.55	3/4	7,000.94	3/4	6,248.17	3/4	5,477.83	3/4	4,702.99	3/4	3,927.83
1	10,396.66	1	9,912.29	1	9,337.37	1	8,695.34	1	8,002.98	1	7,274.05	1	7,000.94	1	6,248.17	1	5,477.83	1	4,702.99	1	3,927.83
1/4	10,387.63	1/4	9,901.08	1/4	9,324.56	1/4	8,681.36	1/4	7,988.11	1/4	7,258.55	1/4	7,000.94	1/4	6,248.17	1/4	5,477.83	1/4	4,702.99	1/4	3,927.83
1/2	10,378.33	1/2	9,889.87	1/2	9,311.74	1/2	8,667.37	1/2	7,973.23	1/2	7,243.05	1/2	7,000.94	1/2	6,248.17	1/2	5,477.83	1/2	4,702.99	1/2	3,927.83
3/4	10,369.57	3/4	9,878.66	3/4	9,298.93	3/4	8,653.38	3/4	7,958.36	3/4	7,227.55	3/4	7,000.94	3/4	6,248.17	3/4	5,477.83	3/4	4,702.99	3/4	3,927.83
1	10,360.43	1	9,867.38	1	9,286.06	1	8,639.35	1	7,943.45	1	7,212.02	1	7,000.94	1	6,248.17	1	5,477.83	1	4,702.99	1	3,927.83
1/4	10,351.28	1/4	9,856.09	1/4	9,273.20	1/4	8,625.32	1/4	7,928.55	1/4	7,196.50	1/4	7,000.94	1/4	6,248.17	1/4	5,477.83	1/4	4,702.99	1/4	3,927.83
1/2	10,342.14	1/2	9,844.81	1/2	9,260.34	1/2	8,611.29	1/2	7,913.64	1/2	7,180.97	1/2	7,000.94	1/2	6,248.17	1/2	5,477.83	1/2	4,702.99	1/2	3,927.83
3/4	10,333.00	3/4	9,833.52	3/4	9,247.47	3/4	8,597.26	3/4	7,898.74	3/4	7,165.45	3/4	7,000.94	3/4	6,248.17	3/4	5,477.83	3/4	4,702.99	3/4	3,927.83
1	10,323.55	1	9,822.02	1	9,234.46	1	8,582.08	1	7,883.74	1	7,149.84	1	7,000.94	1	6,248.17	1	5,477.83	1	4,702.99	1	3,927.83
1/4	10,314.11	1/4	9,810.51	1/4	9,221.44	1/4	8,568.89	1/4	7,868.75	1/4	7,134.82	1/4	7,000.94	1/4	6,248.17	1/4	5,477.83	1/4	4,702.99	1/4	3,927.83
1/2	10,304.66	1/2	9,799.00	1/2	9,208.42	1/2	8,554.71	1/2	7,853.75	1/2	7,118.61	1/2	7,000.94	1/2	6,248.17	1/2	5,477.83	1/2	4,702.99	1/2	3,927.83
3/4	10,295.21	3/4	9,787.50	3/4	9,195.40	3/4	8,540.52	3/4	7,838.76	3/4	7,103.00	3/4	7,000.94	3/4	6,248.17	3/4	5,477.83	3/4	4,702.99	3/4	3,927.83
1	10,285.66	1	9,775.91	1	9,182.33	1	8,526.31	1	7,823.73	1	7,087.37	1	7,000.94	1	6,248.17	1	5,477.83	1	4,702.99	1	3,927.83
1/4	10,276.12	1/4	9,764.33	1/4	9,169.26	1/4	8,512.11	1/4	7,808.70	1/4	7,071.75	1/4	7,000.94	1/4	6,248.17	1/4	5,477.83	1/4	4,702.99	1/4	3,927.83
1/2	10,266.57	1/2	9,752.75	1/2	9,156.19	1/2	8,497.90	1/2	7,793.67	1/2	7,056.12	1/2	7,000.94	1/2	6,248.17	1/2	5,477.83	1/2	4,702		



BARGE "KIRBY 21854"

HORIZONTAL PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

FORMERLY "KEX 2501-A"

GAUGE HEIGHT 25'-00 3/4"

IN	17 FT.		18 FT.		19 FT.		20 FT.		21 FT.		22 FT.		23 FT.		24 FT.		25 FT.		26 FT.	
	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
0	4,722.50	0	3,959.67	0	3,216.21	0	2,503.25	0	1,833.16	0	1,220.99	0	665.86	0	258.86	0	5.11	0		
1/4	4,706.45	1/4	3,943.94	1/4	3,200.96	1/4	2,488.78	1/4	1,819.72	1/4	1,208.93	1/4	675.64	1/4	251.39	1/4	3.69	1/4		
1/2	4,690.40	1/2	3,928.21	1/2	3,185.72	1/2	2,474.32	1/2	1,806.29	1/2	1,196.87	1/2	665.43	1/2	243.92	1/2	2.27	1/2		
3/4	4,674.36	3/4	3,912.47	3/4	3,170.47	3/4	2,459.86	3/4	1,792.86	3/4	1,184.81	3/4	655.21	3/4	236.45	3/4	0.86	3/4		
1	4,658.37	1	3,896.81	1	3,155.36	1	2,445.54	1	1,776.32	1	1,173.00	1	645.37	1	229.31	1	1	1		
1/4	4,642.39	1/4	3,881.15	1/4	3,140.25	1/4	2,431.22	1/4	1,766.39	1/4	1,161.20	1/4	635.53	1/4	222.16	1/4		1/4		
1/2	4,626.41	1/2	3,865.49	1/2	3,125.13	1/2	2,416.91	1/2	1,753.16	1/2	1,149.40	1/2	625.69	1/2	215.02	1/2		1/2		
3/4	4,610.43	3/4	3,849.83	3/4	3,110.02	3/4	2,402.59	3/4	1,739.93	3/4	1,137.59	3/4	615.86	3/4	207.88	3/4		3/4		
2	4,594.44	2	3,834.17	2	3,094.91	2	2,388.28	2	1,723.46	2	1,125.79	2	606.01	2	201.05	2		2		
1/4	4,578.45	1/4	3,818.51	1/4	3,079.80	1/4	2,373.97	1/4	1,713.69	1/4	1,113.99	1/4	596.16	1/4	194.21	1/4		1/4		
1/2	4,562.46	1/2	3,802.85	1/2	3,064.68	1/2	2,359.66	1/2	1,700.23	1/2	1,102.18	1/2	586.32	1/2	187.38	1/2		1/2		
3/4	4,546.47	3/4	3,787.19	3/4	3,049.57	3/4	2,345.36	3/4	1,687.00	3/4	1,090.38	3/4	576.47	3/4	180.55	3/4		3/4		
3	4,530.53	3	3,771.58	3	3,034.58	3	2,331.18	3	1,673.98	3	1,078.87	3	567.03	3	174.03	3		3		
1/4	4,514.54	1/4	3,755.96	1/4	3,019.58	1/4	2,317.00	1/4	1,660.96	1/4	1,067.37	1/4	557.58	1/4	167.51	1/4		1/4		
1/2	4,498.64	1/2	3,740.35	1/2	3,004.59	1/2	2,302.82	1/2	1,647.94	1/2	1,055.86	1/2	548.13	1/2	160.99	1/2		1/2		
3/4	4,482.69	3/4	3,724.74	3/4	2,989.59	3/4	2,288.64	3/4	1,634.93	3/4	1,044.36	3/4	538.69	3/4	154.47	3/4		3/4		
4	4,466.74	4	3,709.12	4	2,974.60	4	2,274.46	4	1,621.91	4	1,032.84	4	529.24	4	148.29	4		4		
1/4	4,450.80	1/4	3,693.51	1/4	2,959.60	1/4	2,260.28	1/4	1,608.89	1/4	1,021.33	1/4	519.78	1/4	142.11	1/4		1/4		
1/2	4,434.85	1/2	3,677.90	1/2	2,944.61	1/2	2,246.11	1/2	1,595.87	1/2	1,009.82	1/2	510.33	1/2	135.92	1/2		1/2		
3/4	4,418.90	3/4	3,662.28	3/4	2,929.62	3/4	2,231.93	3/4	1,582.86	3/4	998.31	3/4	500.88	3/4	129.74	3/4		3/4		
5	4,403.00	5	3,646.78	5	2,914.74	5	2,217.94	5	1,567.04	5	987.10	5	491.85	5	123.92	5		5		
1/4	4,387.11	1/4	3,631.28	1/4	2,899.87	1/4	2,203.95	1/4	1,557.22	1/4	975.89	1/4	482.82	1/4	118.11	1/4		1/4		
1/2	4,371.21	1/2	3,615.78	1/2	2,884.99	1/2	2,189.96	1/2	1,544.41	1/2	964.68	1/2	473.79	1/2	112.29	1/2		1/2		
3/4	4,355.31	3/4	3,600.28	3/4	2,870.12	3/4	2,175.97	3/4	1,531.59	3/4	953.47	3/4	464.76	3/4	106.47	3/4		3/4		
6	4,339.41	6	3,584.78	6	2,855.24	6	2,161.99	6	1,518.78	6	942.27	6	455.72	6	101.05	6		6		
1/4	4,323.51	1/4	3,569.28	1/4	2,840.37	1/4	2,148.00	1/4	1,505.97	1/4	931.06	1/4	446.69	1/4	95.62	1/4		1/4		
1/2	4,307.61	1/2	3,553.78	1/2	2,825.49	1/2	2,134.01	1/2	1,493.16	1/2	919.85	1/2	437.65	1/2	90.19	1/2		1/2		
3/4	4,291.71	3/4	3,538.28	3/4	2,810.62	3/4	2,120.02	3/4	1,480.36	3/4	908.64	3/4	428.62	3/4	84.76	3/4		3/4		
7	4,275.83	7	3,522.87	7	2,795.85	7	2,106.21	7	1,467.79	7	897.75	7	420.10	7	79.76	7		7		
1/4	4,259.95	1/4	3,507.45	1/4	2,781.08	1/4	2,092.39	1/4	1,455.22	1/4	886.86	1/4	411.58	1/4	74.76	1/4		1/4		
1/2	4,244.07	1/2	3,492.03	1/2	2,766.31	1/2	2,078.58	1/2	1,442.66	1/2	875.96	1/2	403.06	1/2	69.76	1/2		1/2		
3/4	4,228.19	3/4	3,476.62	3/4	2,751.55	3/4	2,064.76	3/4	1,430.09	3/4	865.07	3/4	394.55	3/4	64.76	3/4		3/4		
8	4,212.31	8	3,461.21	8	2,736.78	8	2,050.95	8	1,417.53	8	854.18	8	386.02	8	60.23	8		8		
1/4	4,196.43	1/4	3,445.80	1/4	2,722.01	1/4	2,037.14	1/4	1,404.97	1/4	843.28	1/4	377.50	1/4	55.70	1/4		1/4		
1/2	4,180.55	1/2	3,430.38	1/2	2,707.24	1/2	2,023.33	1/2	1,392.41	1/2	832.39	1/2	368.97	1/2	51.17	1/2		1/2		
3/4	4,164.66	3/4	3,414.97	3/4	2,692.47	3/4	2,009.52	3/4	1,379.86	3/4	821.50	3/4	360.45	3/4	46.64	3/4		3/4		
9	4,148.87	9	3,399.65	9	2,677.86	9	1,995.87	9	1,367.53	9	810.92	9	352.42	9	42.63	9		9		
1/4	4,133.08	1/4	3,384.33	1/4	2,663.25	1/4	1,982.22	1/4	1,355.21	1/4	800.34	1/4	344.39	1/4	38.63	1/4		1/4		
1/2	4,117.29	1/2	3,369.01	1/2	2,648.63	1/2	1,968.58	1/2	1,342.89	1/2	789.77	1/2	336.36	1/2	34.62	1/2		1/2		
3/4	4,101.50	3/4	3,353.69	3/4	2,634.02	3/4	1,954.93	3/4	1,330.57	3/4	779.19	3/4	328.33	3/4	30.62	3/4		3/4		
10	4,085.71	10	3,338.37	10	2,619.41	10	1,941.28	10	1,318.25	10	768.62	10	320.30	10	27.24	10		10		
1/4	4,069.91	1/4	3,323.05	1/4	2,604.80	1/4	1,927.63	1/4	1,305.93	1/4	758.05	1/4	312.26	1/4	23.86	1/4		1/4		
1/2	4,054.12	1/2	3,307.72	1/2	2,590.20	1/2	1,913.98	1/2	1,293.61	1/2	747.47	1/2	304.22	1/2	20.47	1/2		1/2		
3/4	4,038.33	3/4	3,292.40	3/4	2,575.59	3/4	1,900.33	3/4	1,281.28	3/4	736.90	3/4	296.19	3/4	17.09	3/4		3/4		
11	4,022.60	11	3,277.16	11	2,561.12	11	1,886.90	11	1,269.22	11	726.69	11	288.72	11	14.45	11		11		
1/4	4,006.87	1/4	3,261.93	1/4	2,546.65	1/4	1,873.46	1/4	1,257.16	1/4	716.49	1/4	281.26	1/4	11.81	1/4		1/4		
1/2	3,991.13	1/2	3,246.69	1/2	2,532.18	1/2	1,860.03	1/2	1,245.11	1/2	706.28	1/2	273.80	1/2	9.16	1/2		1/2		
3/4	3,975.40	3/4	3,231.45	3/4	2,517.71	3/4	1,846.59	3/4	1,233.05	3/4	696.07	3/4	266.33	3/4	6.52	3/4		3/4		

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

DECK MEASUREMENTS: 09/24/1997 SI
REPRINTED: 10/25/2001 SW

PRECISION MEASUREMENT & ANALYSIS, INC.

CANCELS AND SUPERCEDES ALL PRIOR TO 10/20/01

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BARGE "KIRBY 21854"

HORIZONTAL STAR ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OR 42 U.S. GALLONS

FORMERLY "KEX 2501-A"

GAUGE HEIGHT 25'-01 1/4"

IN	7 FT.		8 FT.		9 FT.		10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.	
	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
0	0	10,674.23	0	10,273.57	0	9,757.82	0	9,159.89	0	8,500.53	0	7,795.49	0	7,057.26	0	6,297.54	0	5,526.43	0	4,744.26
1/4	1/4	10,667.55	1/4	10,263.93	1/4	9,746.17	1/4	9,146.76	1/4	8,486.29	1/4	7,780.43	1/4	7,041.62	1/4	6,281.57	1/4	5,510.34	1/4	4,728.07
1/2	1/2	10,660.56	1/2	10,254.09	1/2	9,734.37	1/2	9,133.53	1/2	8,471.97	1/2	7,765.32	1/2	7,025.96	1/2	6,265.59	1/2	5,494.26	1/2	4,711.58
3/4	3/4	10,653.57	3/4	10,244.24	3/4	9,722.56	3/4	9,120.30	3/4	8,457.66	3/4	7,750.21	3/4	7,010.30	3/4	6,249.60	3/4	5,478.19	3/4	4,694.69
1	1	10,646.59	1	10,234.40	1	9,710.76	1	9,107.07	1	8,443.34	1	7,735.09	1	7,000.00	1	6,238.09	1	5,466.05	1	4,666.93
1 1/4	1 1/4	10,639.60	1 1/4	10,224.55	1 1/4	9,698.95	1 1/4	9,093.84	1 1/4	8,429.03	1 1/4	7,719.98	1 1/4	6,978.98	1 1/4	6,217.62	1 1/4	5,446.05	1 1/4	4,646.05
1 1/2	1 1/2	10,632.24	1 1/2	10,214.53	1 1/2	9,687.03	1 1/2	9,080.50	1 1/2	8,414.64	1 1/2	7,704.80	1 1/2	6,963.28	1 1/2	6,201.60	1 1/2	5,429.98	1 1/2	4,629.98
1 3/4	1 3/4	10,624.88	1 3/4	10,204.50	1 3/4	9,675.10	1 3/4	9,067.17	1 3/4	8,400.25	1 3/4	7,688.78	1 3/4	6,947.59	1 3/4	6,189.57	1 3/4	5,413.91	1 3/4	4,613.91
2	2	10,617.53	2	10,194.48	2	9,663.17	2	9,053.84	2	8,385.87	2	7,674.44	2	6,931.89	2	6,169.55	2	5,397.84	2	4,597.84
2 1/4	2 1/4	10,610.17	2 1/4	10,184.46	2 1/4	9,651.24	2 1/4	9,040.50	2 1/4	8,371.48	2 1/4	7,659.26	2 1/4	6,916.19	2 1/4	6,153.53	2 1/4	5,381.76	2 1/4	4,581.76
2 1/2	2 1/2	10,602.60	2 1/2	10,174.25	2 1/2	9,639.18	2 1/2	9,027.07	2 1/2	8,357.01	2 1/2	7,644.02	2 1/2	6,900.46	2 1/2	6,137.48	2 1/2	5,365.70	2 1/2	4,565.70
2 3/4	2 3/4	10,595.96	2 3/4	10,164.04	2 3/4	9,627.12	2 3/4	9,013.63	2 3/4	8,342.55	2 3/4	7,628.78	2 3/4	6,884.73	2 3/4	6,121.43	2 3/4	5,349.63	2 3/4	4,549.63
3	3	10,587.47	3	10,153.83	3	9,615.06	3	9,000.20	3	8,328.09	3	7,613.53	3	6,869.00	3	6,105.38	3	5,333.57	3	4,533.57
3 1/4	3 1/4	10,579.91	3 1/4	10,143.62	3 1/4	9,603.00	3 1/4	8,986.76	3 1/4	8,313.62	3 1/4	7,598.29	3 1/4	6,853.26	3 1/4	6,089.34	3 1/4	5,317.50	3 1/4	4,517.50
3 1/2	3 1/2	10,572.08	3 1/2	10,133.23	3 1/2	9,590.82	3 1/2	8,973.22	3 1/2	8,299.08	3 1/2	7,583.00	3 1/2	6,837.50	3 1/2	6,073.28	3 1/2	5,301.38	3 1/2	4,501.38
3 3/4	3 3/4	10,564.25	3 3/4	10,122.84	3 3/4	9,578.63	3 3/4	8,959.68	3 3/4	8,284.54	3 3/4	7,567.72	3 3/4	6,821.73	3 3/4	6,057.23	3 3/4	5,285.25	3 3/4	4,485.25
4	4	10,556.43	4	10,112.44	4	9,566.45	4	8,946.14	4	8,270.00	4	7,552.43	4	6,805.96	4	6,041.18	4	5,269.13	4	4,469.13
4 1/4	4 1/4	10,548.60	4 1/4	10,102.05	4 1/4	9,554.26	4 1/4	8,932.60	4 1/4	8,255.45	4 1/4	7,537.15	4 1/4	6,790.19	4 1/4	6,025.12	4 1/4	5,253.00	4 1/4	4,453.00
4 1/2	4 1/2	10,540.51	4 1/2	10,091.48	4 1/2	9,541.94	4 1/2	8,918.95	4 1/2	8,240.84	4 1/2	7,521.82	4 1/2	6,774.40	4 1/2	6,009.07	4 1/2	5,236.88	4 1/2	4,436.88
4 3/4	4 3/4	10,532.32	4 3/4	10,080.91	4 3/4	9,529.62	4 3/4	8,905.30	4 3/4	8,226.23	4 3/4	7,506.50	4 3/4	6,758.61	4 3/4	6,758.61	4 3/4	5,993.91	4 3/4	4,420.75
5	5	10,524.33	5	10,070.34	5	9,517.30	5	8,891.65	5	8,211.00	5	7,491.18	5	6,742.82	5	5,976.96	5	5,204.63	5	4,404.63
5 1/4	5 1/4	10,516.24	5 1/4	10,059.76	5 1/4	9,504.98	5 1/4	8,878.00	5 1/4	8,197.00	5 1/4	7,475.86	5 1/4	6,727.03	5 1/4	5,960.91	5 1/4	5,188.50	5 1/4	4,388.50
5 1/2	5 1/2	10,507.91	5 1/2	10,049.03	5 1/2	9,492.54	5 1/2	8,864.28	5 1/2	8,182.31	5 1/2	7,460.49	5 1/2	6,711.19	5 1/2	5,944.85	5 1/2	5,172.41	5 1/2	4,372.41
5 3/4	5 3/4	10,499.57	5 3/4	10,038.30	5 3/4	9,480.10	5 3/4	8,850.55	5 3/4	8,167.62	5 3/4	7,445.12	5 3/4	6,695.35	5 3/4	5,928.79	5 3/4	5,156.31	5 3/4	4,356.31
6	6	10,491.24	6	10,027.57	6	9,467.66	6	8,836.82	6	8,152.93	6	7,429.75	6	6,679.51	6	5,912.73	6	5,140.22	6	4,340.22
6 1/4	6 1/4	10,482.07	6 1/4	10,016.84	6 1/4	9,455.22	6 1/4	8,823.10	6 1/4	8,138.24	6 1/4	7,414.38	6 1/4	6,663.67	6 1/4	5,896.67	6 1/4	5,124.12	6 1/4	4,324.12
6 1/2	6 1/2	10,474.33	6 1/2	10,005.94	6 1/2	9,442.66	6 1/2	8,809.28	6 1/2	8,123.47	6 1/2	7,398.97	6 1/2	6,647.78	6 1/2	5,880.59	6 1/2	5,108.03	6 1/2	4,308.03
6 3/4	6 3/4	10,465.75	6 3/4	9,995.05	6 3/4	9,430.10	6 3/4	8,795.47	6 3/4	8,108.71	6 3/4	7,383.55	6 3/4	6,631.90	6 3/4	5,864.51	6 3/4	5,091.94	6 3/4	4,291.94
7	7	10,457.18	7	9,984.14	7	9,417.54	7	8,781.65	7	8,093.94	7	7,368.13	7	6,616.01	7	5,848.44	7	5,075.84	7	4,275.84
7 1/4	7 1/4	10,448.60	7 1/4	9,973.26	7 1/4	9,404.98	7 1/4	8,767.84	7 1/4	8,079.17	7 1/4	7,352.72	7 1/4	6,600.12	7 1/4	5,832.36	7 1/4	5,059.74	7 1/4	4,259.74
7 1/2	7 1/2	10,439.79	7 1/2	9,962.22	7 1/2	9,392.29	7 1/2	8,753.94	7 1/2	8,064.35	7 1/2	7,337.26	7 1/2	6,584.23	7 1/2	5,816.28	7 1/2	5,043.67	7 1/2	4,243.67
7 3/4	7 3/4	10,430.99	7 3/4	9,951.17	7 3/4	9,379.61	7 3/4	8,740.04	7 3/4	8,049.53	7 3/4	7,321.80	7 3/4	6,568.34	7 3/4	5,800.19	7 3/4	5,027.60	7 3/4	4,227.60
8	8	10,422.19	8	9,940.12	8	9,366.93	8	8,726.14	8	8,034.71	8	7,306.34	8	6,552.44	8	5,784.11	8	5,011.53	8	4,211.53
8 1/4	8 1/4	10,413.38	8 1/4	9,929.07	8 1/4	9,354.24	8 1/4	8,712.24	8 1/4	8,019.88	8 1/4	7,290.88	8 1/4	6,536.55	8 1/4	5,768.03	8 1/4	4,995.45	8 1/4	4,195.45
8 1/2	8 1/2	10,404.35	8 1/2	9,917.87	8 1/2	9,341.43	8 1/2	8,698.26	8 1/2	8,005.01	8 1/2	7,275.38	8 1/2	6,520.65	8 1/2	5,751.94	8 1/2	4,979.38	8 1/2	4,179.38
8 3/4	8 3/4	10,395.32	8 3/4	9,906.66	8 3/4	9,328.61	8 3/4	8,684.28	8 3/4	7,990.13	8 3/4	7,259.87	8 3/4	6,504.75	8 3/4	5,735.85	8 3/4	4,963.31	8 3/4	4,163.31
9	9	10,386.29	9	9,895.45	9	9,315.79	9	8,670.29	9	7,975.26	9	7,244.37	9	6,488.85	9	5,719.76	9	4,947.24	9	4,147.24
9 1/4	9 1/4	10,377.26	9 1/4	9,884.24	9 1/4	9,302.98	9 1/4	8,656.31	9 1/4	7,960.38	9 1/4	7,228.86	9 1/4	6,472.95	9 1/4	5,703.67	9 1/4	4,931.17	9 1/4	4,131.17
9 1/2	9 1/2	10,368.02	9 1/2	9,872.88	9 1/2	9,290.06	9 1/2	8,642.23	9 1/2	7,945.45	9 1/2	7,213.31	9 1/2	6,457.03	9 1/2	5,687.56	9 1/2	4,915.11	9 1/2	4,115.11
9 3/4	9 3/4	10,358.78	9 3/4	9,861.53	9 3/4	9,277.15	9 3/4	8,628.18	9 3/4	7,930.51	9 3/4	7,197.75	9 3/4	6,441.11	9 3/4	5,671.44	9 3/4	4,899.05	9 3/4	4,099.05
10	10	10,349.59	10	9,850.17	10	9,264.23	10	8,614.06	10	7,915.58	10	7,182.20	10	6,425.19	10	5,655.33	10	4,882.99	10	4,082.99
10 1/4	10 1/4	10,340.29	10 1/4	9,838.81	10 1/4	9,251.31	10 1/4	8,599.98	10 1/4	7,900.65	10 1/4	7,166.65	10 1/4	6,409.26	10 1/4	5,639.22	10 1/4	4,866.93	10 1/4	4,066.93
10 1/2	10 1/2	10,330.84	10 1/2	9,827.31	10 1/2	9,238.30	10 1/2	8,585.80	10 1/2	7,885.65	10 1/2	7,151.03	10 1/2	6,393.31	10 1/2	5,623.09	10 1/2	4,850.88	10 1/2	4,050.88
10 3/4	10 3/4	10,321.40	10 3/4	9,815.80	10 3/4	9,225.29	10 3/4	8,571.62	10 3/4	7,870.66	10 3/4	7,135.41	10 3/4	6,377.36	10 3/4	5,606.97	10 3/4	4,834.82	10 3/4	4,034.82
11	11	10,311.95	11	9,804.29	11	9,212.28	11	8,557.46	11	7,855.66	11	7,119.79	11	6,361.41	11	5,590.84	11	4,818.77	11	4,018.77
11 1/4	11 1/4	10,302.50	11 1/4	9,792.79	11 1/4	9,199.26	11 1/4	8,543.24	11 1/4	7,840.67	11 1/4									



BARGE "KIRBY 21854"

HORIZONTAL STAR ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

FORMERLY "KEX 2501-A"

GAUGE HEIGHT 25'-01 1/4"

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.
0	4,754.57	0	3,990.97	0	3,246.44	0	2,531.90	0	1,859.77	0	1,224.90	0	706.14	0	273.73	0	9.23	0	
1/4	4,738.53	1/4	3,975.24	1/4	3,231.19	1/4	2,517.43	1/4	1,846.34	1/4	1,232.84	1/4	695.93	1/4	266.26	1/4	6.62	1/4	
1/2	4,722.48	1/2	3,959.51	1/2	3,215.95	1/2	2,502.96	1/2	1,832.90	1/2	1,220.78	1/2	685.72	1/2	258.80	1/2	5.18	1/2	
3/4	4,706.43	3/4	3,943.78	3/4	3,200.70	3/4	2,488.49	3/4	1,819.47	3/4	1,208.73	3/4	675.50	3/4	251.34	3/4	3.74	3/4	
1	4,690.38	1	3,928.04	1	3,185.46	1	2,474.02	1	1,806.03	1	1,196.68	1	665.29	1	243.87	1	2.30	1	
1/4	4,674.34	1/4	3,912.31	1/4	3,170.22	1/4	2,459.55	1/4	1,792.60	1/4	1,184.62	1/4	655.07	1/4	236.41	1/4	0.86	1/4	
1/2	4,658.34	1/2	3,896.65	1/2	3,155.10	1/2	2,445.24	1/2	1,779.37	1/2	1,172.82	1/2	645.23	1/2	229.26	1/2		1/2	
3/4	4,642.35	3/4	3,880.99	3/4	3,139.99	3/4	2,430.93	3/4	1,766.13	3/4	1,161.01	3/4	635.40	3/4	222.12	3/4		3/4	
2	4,626.35	2	3,865.33	2	3,124.88	2	2,416.62	2	1,752.90	2	1,149.21	2	625.56	2	214.98	2		2	
1/4	4,610.36	1/4	3,849.67	1/4	3,109.76	1/4	2,402.31	1/4	1,739.67	1/4	1,137.41	1/4	615.72	1/4	207.84	1/4		1/4	
1/2	4,594.37	1/2	3,834.00	1/2	3,094.65	1/2	2,388.00	1/2	1,726.44	1/2	1,125.60	1/2	605.88	1/2	201.00	1/2		1/2	
3/4	4,578.38	3/4	3,818.34	3/4	3,079.53	3/4	2,373.68	3/4	1,713.21	3/4	1,113.80	3/4	596.04	3/4	194.17	3/4		3/4	
3	4,562.40	3	3,802.67	3	3,064.41	3	2,359.37	3	1,699.97	3	1,102.00	3	586.20	3	187.34	3		3	
1/4	4,546.41	1/4	3,787.00	1/4	3,049.29	1/4	2,345.05	1/4	1,686.74	1/4	1,090.19	1/4	576.36	1/4	180.50	1/4		1/4	
1/2	4,530.45	1/2	3,771.39	1/2	3,034.29	1/2	2,330.87	1/2	1,673.72	1/2	1,078.69	1/2	566.91	1/2	173.98	1/2		1/2	
3/4	4,514.50	3/4	3,755.78	3/4	3,019.30	3/4	2,316.69	3/4	1,660.71	3/4	1,067.18	3/4	557.47	3/4	167.47	3/4		3/4	
4	4,498.55	4	3,740.16	4	3,004.31	4	2,302.51	4	1,647.69	4	1,055.68	4	548.02	4	160.95	4		4	
1/4	4,482.60	1/4	3,724.55	1/4	2,989.31	1/4	2,288.34	1/4	1,634.67	1/4	1,044.17	1/4	538.57	1/4	154.43	1/4		1/4	
1/2	4,466.65	1/2	3,708.94	1/2	2,974.32	1/2	2,274.16	1/2	1,621.65	1/2	1,032.66	1/2	529.12	1/2	148.25	1/2		1/2	
3/4	4,450.70	3/4	3,693.32	3/4	2,959.32	3/4	2,259.98	3/4	1,608.63	3/4	1,021.16	3/4	519.67	3/4	142.07	3/4		3/4	
5	4,434.76	5	3,677.71	5	2,944.34	5	2,245.80	5	1,595.62	5	1,009.65	5	510.22	5	135.90	5		5	
1/4	4,418.81	1/4	3,662.10	1/4	2,929.34	1/4	2,231.62	1/4	1,582.60	1/4	998.15	1/4	500.76	1/4	129.72	1/4		1/4	
1/2	4,402.91	1/2	3,646.60	1/2	2,914.46	1/2	2,217.64	1/2	1,569.79	1/2	986.94	1/2	491.73	1/2	123.91	1/2		1/2	
3/4	4,387.01	3/4	3,631.10	3/4	2,899.59	3/4	2,203.66	3/4	1,556.98	3/4	975.73	3/4	482.70	3/4	118.10	3/4		3/4	
6	4,371.12	6	3,615.60	6	2,884.71	6	2,189.68	6	1,544.17	6	964.52	6	473.68	6	112.29	6		6	
1/4	4,355.22	1/4	3,600.10	1/4	2,869.84	1/4	2,175.69	1/4	1,531.36	1/4	953.31	1/4	464.65	1/4	106.48	1/4		1/4	
1/2	4,339.31	1/2	3,584.60	1/2	2,854.96	1/2	2,161.70	1/2	1,518.54	1/2	942.10	1/2	455.61	1/2	101.05	1/2		1/2	
3/4	4,323.41	3/4	3,569.10	3/4	2,840.07	3/4	2,147.72	3/4	1,505.73	3/4	930.90	3/4	446.57	3/4	95.62	3/4		3/4	
7	4,307.50	7	3,553.60	7	2,825.19	7	2,133.73	7	1,492.91	7	919.69	7	437.54	7	90.19	7		7	
1/4	4,291.60	1/4	3,538.10	1/4	2,810.31	1/4	2,119.74	1/4	1,480.10	1/4	908.48	1/4	428.50	1/4	84.76	1/4		1/4	
1/2	4,275.72	1/2	3,522.68	1/2	2,795.54	1/2	2,105.93	1/2	1,467.54	1/2	897.59	1/2	419.99	1/2	79.76	1/2		1/2	
3/4	4,259.84	3/4	3,507.25	3/4	2,780.78	3/4	2,092.12	3/4	1,454.98	3/4	886.69	3/4	411.48	3/4	74.76	3/4		3/4	
8	4,243.96	8	3,491.83	8	2,766.01	8	2,078.31	8	1,442.42	8	875.80	8	402.97	8	69.76	8		8	
1/4	4,228.07	1/4	3,476.41	1/4	2,751.24	1/4	2,064.50	1/4	1,429.86	1/4	864.91	1/4	394.45	1/4	64.76	1/4		1/4	
1/2	4,212.19	1/2	3,460.99	1/2	2,736.47	1/2	2,050.69	1/2	1,417.30	1/2	854.01	1/2	385.94	1/2	60.23	1/2		1/2	
3/4	4,196.30	3/4	3,445.57	3/4	2,721.71	3/4	2,036.87	3/4	1,404.74	3/4	843.12	3/4	377.42	3/4	55.70	3/4		3/4	
9	4,180.41	9	3,430.16	9	2,706.94	9	2,023.06	9	1,392.18	9	832.23	9	368.90	9	51.18	9		9	
1/4	4,164.53	1/4	3,414.74	1/4	2,692.17	1/4	2,009.24	1/4	1,379.62	1/4	821.34	1/4	360.38	1/4	46.65	1/4		1/4	
1/2	4,148.73	1/2	3,399.42	1/2	2,677.56	1/2	1,995.60	1/2	1,367.30	1/2	810.76	1/2	352.35	1/2	42.65	1/2		1/2	
3/4	4,132.94	3/4	3,384.10	3/4	2,662.96	3/4	1,981.96	3/4	1,354.98	3/4	800.19	3/4	344.32	3/4	38.65	3/4		3/4	
10	4,117.15	10	3,368.78	10	2,648.35	10	1,968.31	10	1,342.66	10	789.62	10	336.29	10	34.65	10		10	
1/4	4,101.36	1/4	3,353.43	1/4	2,633.74	1/4	1,954.67	1/4	1,330.34	1/4	779.05	1/4	328.26	1/4	30.65	1/4		1/4	
1/2	4,085.56	1/2	3,338.15	1/2	2,619.13	1/2	1,941.02	1/2	1,318.02	1/2	768.48	1/2	320.23	1/2	27.25	1/2		1/2	
3/4	4,069.76	3/4	3,322.81	3/4	2,604.51	3/4	1,927.37	3/4	1,305.71	3/4	757.91	3/4	312.20	3/4	23.86	3/4		3/4	
11	4,053.97	11	3,307.49	11	2,589.90	11	1,913.72	11	1,293.39	11	747.34	11	304.18	11	20.47	11		11	
1/4	4,038.17	1/4	3,292.17	1/4	2,575.82	1/4	1,900.07	1/4	1,281.07	1/4	736.76	1/4	296.15	1/4	17.07	1/4		1/4	
1/2	4,022.44	1/2	3,276.92	1/2	2,560.89	1/2	1,886.64	1/2	1,269.01	1/2	726.56	1/2	288.68	1/2	14.46	1/2		1/2	
3/4	4,006.70	3/4	3,261.68	3/4	2,546.36	3/4	1,873.20	3/4	1,256.96	3/4	716.35	3/4	281.20	3/4	11.85	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

DECK MEASUREMENTS: 08/24/1997 SI
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PRECISION MEASUREMENT

& ANALYSIS, INC.

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