

Tank Strapping Detail Report

Tank ID **100-023** Tank Type **F** Roof Weight **132,380** API **31.50** Gravity Correction **2.68**  
 Strapped By: HMT 8/7/2014 Floating Height **4-07-00**

<u>FT-IN-8th</u>	<u>Barrels</u>	<u>FT-IN-8th</u>	<u>Barrels</u>	<u>FT-IN-8th</u>	<u>Barrels</u>	<u>FT-IN-8th</u>	<u>Barrels</u>
0-00-00	29.08	3-06-00	6,269.95	7-00-00	13,237.09 F	10-06-00	20,641.73 F
0-01-00	51.59	3-07-00	6,446.25	7-01-00	13,413.34 F	10-07-00	20,818.19 F
0-02-00	80.26	3-08-00	6,622.56	7-02-00	13,589.60 F	10-08-00	20,994.64 F
0-03-00	111.87	3-09-00	6,798.86	7-03-00	13,765.86 F	10-09-00	21,171.09 F
0-04-00	158.00	3-10-00	6,975.16	7-04-00	13,942.11 F	10-10-00	21,347.54 F
0-05-00	210.44	3-11-00	7,151.47	7-05-00	14,118.37 F	10-11-00	21,524.00 F
0-06-00	273.35	4-00-00	7,327.77	7-06-00	14,294.63 F	11-00-00	21,700.45 F
0-07-00	353.25	4-01-00	7,504.07	7-07-00	14,470.88 F	11-01-00	21,876.90 F
0-08-00	450.71	4-02-00	7,680.38	7-08-00	14,647.14 F	11-02-00	22,053.36 F
0-09-00	564.21	4-03-00	7,856.68	7-09-00	14,823.40 F	11-03-00	22,229.81 F
0-10-00	695.22	4-04-00	8,032.94	7-10-00	14,999.65 F	11-04-00	22,406.26 F
0-11-00	841.02	4-05-00	8,209.19	7-11-00	15,175.91 F	11-05-00	22,582.71 F
1-00-00	997.11	4-06-00	8,385.45	8-00-00	15,352.17 F	11-06-00	22,759.17 F
1-01-00	1,163.40	<b>4-07-00</b>	8,561.71 F	8-01-00	15,528.42 F	11-07-00	22,935.62 F
1-02-00	1,335.65	<b>4-08-00</b>	8,694.83 F	8-02-00	15,704.68 F	11-08-00	23,112.07 F
1-03-00	1,510.27	<b>4-09-00</b>	8,741.67 F	8-03-00	15,880.94 F	11-09-00	23,288.53 F
1-04-00	1,686.52	<b>4-10-00</b>	8,745.37 F	8-04-00	16,057.19 F	11-10-00	23,464.98 F
1-05-00	1,862.78	<b>4-11-00</b>	8,830.67 F	8-05-00	16,233.45 F	11-11-00	23,641.43 F
1-06-00	2,039.05	5-00-00	9,006.92 F	8-06-00	16,409.71 F	12-00-00	23,817.88 F
1-07-00	2,215.31	5-01-00	9,183.18 F	8-07-00	16,585.96 F	12-01-00	23,994.34 F
1-08-00	2,391.58	5-02-00	9,359.44 F	8-08-00	16,762.22 F	12-02-00	24,170.79 F
1-09-00	2,567.84	5-03-00	9,535.69 F	8-09-00	16,938.48 F	12-03-00	24,347.24 F
1-10-00	2,744.10	5-04-00	9,711.95 F	8-10-00	17,114.74 F	12-04-00	24,523.69 F
1-11-00	2,920.37	5-05-00	9,888.21 F	8-11-00	17,290.99 F	12-05-00	24,700.15 F
2-00-00	3,096.63	5-06-00	10,064.46 F	9-00-00	17,467.25 F	12-06-00	24,876.60 F
2-01-00	3,272.90	5-07-00	10,240.72 F	9-01-00	17,643.51 F	12-07-00	25,053.05 F
2-02-00	3,449.15	5-08-00	10,416.98 F	9-02-00	17,819.76 F	12-08-00	25,229.51 F
2-03-00	3,625.40	5-09-00	10,593.23 F	9-03-00	17,996.02 F	12-09-00	25,405.96 F
2-04-00	3,801.71	5-10-00	10,769.49 F	9-04-00	18,172.28 F	12-10-00	25,582.41 F
2-05-00	3,978.01	5-11-00	10,945.75 F	9-05-00	18,348.53 F	12-11-00	25,758.86 F
2-06-00	4,154.31	6-00-00	11,122.00 F	9-06-00	18,524.79 F	13-00-00	25,935.32 F
2-07-00	4,330.62	6-01-00	11,298.26 F	9-07-00	18,701.05 F	13-01-00	26,111.77 F
2-08-00	4,506.92	6-02-00	11,474.52 F	9-08-00	18,877.30 F	13-02-00	26,288.22 F
2-09-00	4,683.22	6-03-00	11,650.77 F	9-09-00	19,053.56 F	13-03-00	26,464.68 F
2-10-00	4,859.53	6-04-00	11,827.03 F	9-10-00	19,230.11 F	13-04-00	26,641.13 F
2-11-00	5,035.83	6-05-00	12,003.29 F	9-11-00	19,406.56 F	13-05-00	26,817.58 F
3-00-00	5,212.13	6-06-00	12,179.54 F	10-00-00	19,583.02 F	13-06-00	26,994.03 F
3-01-00	5,388.44	6-07-00	12,355.80 F	10-01-00	19,759.47 F	13-07-00	27,170.49 F
3-02-00	5,564.74	6-08-00	12,532.06 F	10-02-00	19,935.92 F	13-08-00	27,346.94 F
3-03-00	5,741.04	6-09-00	12,708.32 F	10-03-00	20,112.37 F	13-09-00	27,523.39 F
3-04-00	5,917.34	6-10-00	12,884.57 F	10-04-00	20,288.83 F	13-10-00	27,699.85 F
3-05-00	6,093.65	6-11-00	13,060.83 F	10-05-00	20,465.28 F	13-11-00	27,876.30 F

All fractional values are to be calculated between the one inch values at the point of strapping

**BOLD DENOTES ROOF CRITICAL ZONE**

Tank ID **100-023** Tank Type **F** Roof Weight **132,380** API **31.50** Gravity Correction **2.68**  
 Strapped By: **HMT** 8/7/2014 Floating Height **4-07-00**

<u>FT-IN-8th</u>	<u>Barrels</u>	<u>FT-IN-8th</u>	<u>Barrels</u>	<u>FT-IN-8th</u>	<u>Barrels</u>	<u>FT-IN-8th</u>	<u>Barrels</u>
14-00-00	28,052.75 F	17-06-00	35,463.77 F	21-00-00	42,878.80 F	24-06-00	50,300.03 F
14-01-00	28,229.20 F	17-07-00	35,640.22 F	21-01-00	43,055.49 F	24-07-00	50,476.73 F
14-02-00	28,405.66 F	17-08-00	35,816.67 F	21-02-00	43,232.19 F	24-08-00	50,653.42 F
14-03-00	28,582.11 F	17-09-00	35,993.13 F	21-03-00	43,408.89 F	24-09-00	50,830.12 F
14-04-00	28,758.56 F	17-10-00	36,169.58 F	21-04-00	43,585.58 F	24-10-00	51,006.81 F
14-05-00	28,935.01 F	17-11-00	36,346.03 F	21-05-00	43,762.28 F	24-11-00	51,183.51 F
14-06-00	29,111.47 F	18-00-00	36,522.49 F	21-06-00	43,938.97 F	25-00-00	51,360.21 F
14-07-00	29,287.92 F	18-01-00	36,698.94 F	21-07-00	44,115.67 F	25-01-00	51,536.90 F
14-08-00	29,464.37 F	18-02-00	36,875.39 F	21-08-00	44,292.37 F	25-02-00	51,713.60 F
14-09-00	29,640.83 F	18-03-00	37,051.84 F	21-09-00	44,469.06 F	25-03-00	51,890.29 F
14-10-00	29,817.28 F	18-04-00	37,228.30 F	21-10-00	44,645.76 F	25-04-00	52,066.99 F
14-11-00	29,993.73 F	18-05-00	37,404.75 F	21-11-00	44,822.45 F	25-05-00	52,243.69 F
15-00-00	30,170.18 F	18-06-00	37,581.20 F	22-00-00	44,999.15 F	25-06-00	52,420.38 F
15-01-00	30,346.64 F	18-07-00	37,757.65 F	22-01-00	45,175.85 F	25-07-00	52,597.08 F
15-02-00	30,523.09 F	18-08-00	37,934.11 F	22-02-00	45,352.54 F	25-08-00	52,773.77 F
15-03-00	30,699.54 F	18-09-00	38,110.56 F	22-03-00	45,529.24 F	25-09-00	52,950.47 F
15-04-00	30,876.00 F	18-10-00	38,287.01 F	22-04-00	45,705.93 F	25-10-00	53,127.17 F
15-05-00	31,052.45 F	18-11-00	38,463.47 F	22-05-00	45,882.63 F	25-11-00	53,303.86 F
15-06-00	31,228.90 F	19-00-00	38,639.92 F	22-06-00	46,059.33 F	26-00-00	53,480.56 F
15-07-00	31,405.35 F	19-01-00	38,816.37 F	22-07-00	46,236.02 F	26-01-00	53,657.25 F
15-08-00	31,581.81 F	19-02-00	38,992.82 F	22-08-00	46,412.72 F	26-02-00	53,833.95 F
15-09-00	31,758.26 F	19-03-00	39,169.28 F	22-09-00	46,589.41 F	26-03-00	54,010.65 F
15-10-00	31,934.71 F	19-04-00	39,345.73 F	22-10-00	46,766.11 F	26-04-00	54,187.34 F
15-11-00	32,111.17 F	19-05-00	39,522.18 F	22-11-00	46,942.81 F	26-05-00	54,364.04 F
16-00-00	32,287.62 F	19-06-00	39,698.64 F	23-00-00	47,119.50 F	26-06-00	54,540.73 F
16-01-00	32,464.07 F	19-07-00	39,875.09 F	23-01-00	47,296.20 F	26-07-00	54,717.43 F
16-02-00	32,640.52 F	19-08-00	40,051.66 F	23-02-00	47,472.89 F	26-08-00	54,894.13 F
16-03-00	32,816.98 F	19-09-00	40,228.36 F	23-03-00	47,649.59 F	26-09-00	55,070.82 F
16-04-00	32,993.43 F	19-10-00	40,405.05 F	23-04-00	47,826.29 F	26-10-00	55,247.52 F
16-05-00	33,169.88 F	19-11-00	40,581.75 F	23-05-00	48,002.98 F	26-11-00	55,424.21 F
16-06-00	33,346.33 F	20-00-00	40,758.45 F	23-06-00	48,179.68 F	27-00-00	55,600.91 F
16-07-00	33,522.79 F	20-01-00	40,935.14 F	23-07-00	48,356.37 F	27-01-00	55,777.61 F
16-08-00	33,699.24 F	20-02-00	41,111.84 F	23-08-00	48,533.07 F	27-02-00	55,954.30 F
16-09-00	33,875.69 F	20-03-00	41,288.53 F	23-09-00	48,709.77 F	27-03-00	56,131.00 F
16-10-00	34,052.15 F	20-04-00	41,465.23 F	23-10-00	48,886.46 F	27-04-00	56,307.69 F
16-11-00	34,228.60 F	20-05-00	41,641.93 F	23-11-00	49,063.16 F	27-05-00	56,484.39 F
17-00-00	34,405.05 F	20-06-00	41,818.62 F	24-00-00	49,239.85 F	27-06-00	56,661.09 F
17-01-00	34,581.50 F	20-07-00	41,995.32 F	24-01-00	49,416.55 F	27-07-00	56,837.78 F
17-02-00	34,757.96 F	20-08-00	42,172.01 F	24-02-00	49,593.25 F	27-08-00	57,014.48 F
17-03-00	34,934.41 F	20-09-00	42,348.71 F	24-03-00	49,769.94 F	27-09-00	57,191.17 F
17-04-00	35,110.86 F	20-10-00	42,525.41 F	24-04-00	49,946.64 F	27-10-00	57,367.87 F
17-05-00	35,287.32 F	20-11-00	42,702.10 F	24-05-00	50,123.33 F	27-11-00	57,544.57 F

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Tank ID **100-023** Tank Type **F** Roof Weight **132,380** API **31.50** Gravity Correction **2.68**  
 Strapped By: HMT 8/7/2014 Floating Height **4-07-00**

<u>FT-IN-8th</u>	<u>Barrels</u>	<u>FT-IN-8th</u>	<u>Barrels</u>	<u>FT-IN-8th</u>	<u>Barrels</u>	<u>FT-IN-8th</u>	<u>Barrels</u>
28-00-00	57,721.26 F	31-06-00	65,144.70 F	35-00-00	72,569.43 F	38-06-00	79,994.15 F
28-01-00	57,897.96 F	31-07-00	65,321.48 F	35-01-00	72,746.21 F	38-07-00	80,170.93 F
28-02-00	58,074.65 F	31-08-00	65,498.26 F	35-02-00	72,922.98 F	38-08-00	80,347.71 F
28-03-00	58,251.35 F	31-09-00	65,675.04 F	35-03-00	73,099.76 F	38-09-00	80,524.49 F
28-04-00	58,428.05 F	31-10-00	65,851.82 F	35-04-00	73,276.54 F	38-10-00	80,701.27 F
28-05-00	58,604.74 F	31-11-00	66,028.60 F	35-05-00	73,453.32 F	38-11-00	80,878.05 F
28-06-00	58,781.44 F	32-00-00	66,205.37 F	35-06-00	73,630.10 F	39-00-00	81,054.88 F
28-07-00	58,958.13 F	32-01-00	66,382.15 F	35-07-00	73,806.88 F	39-01-00	81,231.77 F
28-08-00	59,134.83 F	32-02-00	66,558.93 F	35-08-00	73,983.66 F	39-02-00	81,408.66 F
28-09-00	59,311.53 F	32-03-00	66,735.71 F	35-09-00	74,160.44 F	39-03-00	81,585.55 F
28-10-00	59,488.22 F	32-04-00	66,912.49 F	35-10-00	74,337.22 F	39-04-00	81,762.44 F
28-11-00	59,664.92 F	32-05-00	67,089.27 F	35-11-00	74,514.00 F	39-05-00	81,939.34 F
29-00-00	59,841.61 F	32-06-00	67,266.05 F	36-00-00	74,690.78 F	39-06-00	82,116.23 F
29-01-00	60,018.31 F	32-07-00	67,442.83 F	36-01-00	74,867.56 F	39-07-00	82,293.12 F
29-02-00	60,195.01 F	32-08-00	67,619.61 F	36-02-00	75,044.33 F	39-08-00	82,470.01 F
29-03-00	60,371.70 F	32-09-00	67,796.39 F	36-03-00	75,221.11 F	39-09-00	82,646.90 F
29-04-00	60,548.44 F	32-10-00	67,973.17 F	36-04-00	75,397.89 F	39-10-00	82,823.79 F
29-05-00	60,725.22 F	32-11-00	68,149.95 F	36-05-00	75,574.67 F	39-11-00	83,000.68 F
29-06-00	60,902.00 F	33-00-00	68,326.73 F	36-06-00	75,751.45 F	40-00-00	83,177.57 F
29-07-00	61,078.78 F	33-01-00	68,503.50 F	36-07-00	75,928.23 F	40-01-00	83,354.46 F
29-08-00	61,255.56 F	33-02-00	68,680.28 F	36-08-00	76,105.01 F	40-02-00	83,531.35 F
29-09-00	61,432.34 F	33-03-00	68,857.06 F	36-09-00	76,281.79 F	40-03-00	83,708.24 F
29-10-00	61,609.12 F	33-04-00	69,033.84 F	36-10-00	76,458.57 F	40-04-00	83,885.13 F
29-11-00	61,785.89 F	33-05-00	69,210.62 F	36-11-00	76,635.35 F	40-05-00	84,062.02 F
30-00-00	61,962.67 F	33-06-00	69,387.40 F	37-00-00	76,812.13 F	40-06-00	84,238.91 F
30-01-00	62,139.45 F	33-07-00	69,564.18 F	37-01-00	76,988.91 F	40-07-00	84,415.80 F
30-02-00	62,316.23 F	33-08-00	69,740.96 F	37-02-00	77,165.69 F	40-08-00	84,592.69 F
30-03-00	62,493.01 F	33-09-00	69,917.74 F	37-03-00	77,342.46 F	40-09-00	84,769.58 F
30-04-00	62,669.79 F	33-10-00	70,094.52 F	37-04-00	77,519.24 F	40-10-00	84,946.47 F
30-05-00	62,846.57 F	33-11-00	70,271.30 F	37-05-00	77,696.02 F	40-11-00	85,123.36 F
30-06-00	63,023.35 F	34-00-00	70,448.08 F	37-06-00	77,872.80 F	41-00-00	85,300.25 F
30-07-00	63,200.13 F	34-01-00	70,624.85 F	37-07-00	78,049.58 F	41-01-00	85,477.14 F
30-08-00	63,376.91 F	34-02-00	70,801.63 F	37-08-00	78,226.36 F	41-02-00	85,654.03 F
30-09-00	63,553.69 F	34-03-00	70,978.41 F	37-09-00	78,403.14 F	41-03-00	85,830.92 F
30-10-00	63,730.47 F	34-04-00	71,155.19 F	37-10-00	78,579.92 F	41-04-00	86,007.81 F
30-11-00	63,907.25 F	34-05-00	71,331.97 F	37-11-00	78,756.70 F	41-05-00	86,184.70 F
31-00-00	64,084.02 F	34-06-00	71,508.75 F	38-00-00	78,933.48 F	41-06-00	86,361.60 F
31-01-00	64,260.80 F	34-07-00	71,685.53 F	38-01-00	79,110.26 F	41-07-00	86,538.49 F
31-02-00	64,437.58 F	34-08-00	71,862.31 F	38-02-00	79,287.04 F	41-08-00	86,715.38 F
31-03-00	64,614.36 F	34-09-00	72,039.09 F	38-03-00	79,463.81 F	41-09-00	86,892.27 F
31-04-00	64,791.14 F	34-10-00	72,215.87 F	38-04-00	79,640.59 F	41-10-00	87,069.16 F
31-05-00	64,967.92 F	34-11-00	72,392.65 F	38-05-00	79,817.37 F	41-11-00	87,246.05 F

All fractional values are to be calculated between the one inch values at the point of strapping

**BOLD DENOTES ROOF CRITICAL ZONE**

## Tank Strapping Detail Report

Tank ID **100-023** Tank Type **F** Roof Weight **132,380** API **31.50** Gravity Correction **2.68**  
 Strapped By: HMT 8/7/2014 Floating Height **4-07-00**

<u>FT-IN-8th</u>	<u>Barrels</u>	<u>FT-IN-8th</u>	<u>Barrels</u>	<u>FT-IN-8th</u>	<u>Barrels</u>	<u>FT-IN-8th</u>	<u>Barrels</u>
42-00-00	87,422.94 F	45-06-00	94,852.33 F	49-00-00	102,281.96 F	52-06-00	109,713.47 F
42-01-00	87,599.83 F	45-07-00	95,029.22 F	49-01-00	102,458.90 F	52-07-00	109,890.41 F
42-02-00	87,776.72 F	45-08-00	95,206.12 F	49-02-00	102,635.84 F	52-08-00	110,067.35 F
42-03-00	87,953.61 F	45-09-00	95,383.01 F	49-03-00	102,812.78 F	52-09-00	110,244.29 F
42-04-00	88,130.50 F	45-10-00	95,559.90 F	49-04-00	102,989.72 F	52-10-00	110,421.23 F
42-05-00	88,307.39 F	45-11-00	95,736.79 F	49-05-00	103,166.66 F	52-11-00	110,598.18 F
42-06-00	88,484.28 F	46-00-00	95,913.68 F	49-06-00	103,343.60 F	53-00-00	110,775.12 F
42-07-00	88,661.17 F	46-01-00	96,090.57 F	49-07-00	103,520.54 F	53-01-00	110,952.06 F
42-08-00	88,838.06 F	46-02-00	96,267.46 F	49-08-00	103,697.48 F	53-02-00	111,129.00 F
42-09-00	89,014.95 F	46-03-00	96,444.35 F	49-09-00	103,874.43 F	53-03-00	111,305.94 F
42-10-00	89,191.84 F	46-04-00	96,621.24 F	49-10-00	104,051.37 F	53-04-00	111,482.88 F
42-11-00	89,368.73 F	46-05-00	96,798.13 F	49-11-00	104,228.31 F	53-05-00	111,659.82 F
43-00-00	89,545.62 F	46-06-00	96,975.02 F	50-00-00	104,405.25 F	53-06-00	111,836.76 F
43-01-00	89,722.51 F	46-07-00	97,151.91 F	50-01-00	104,582.19 F	53-07-00	112,013.70 F
43-02-00	89,899.40 F	46-08-00	97,328.80 F	50-02-00	104,759.13 F		
43-03-00	90,076.29 F	46-09-00	97,505.69 F	50-03-00	104,936.07 F		
43-04-00	90,253.18 F	46-10-00	97,682.58 F	50-04-00	105,113.01 F		
43-05-00	90,430.07 F	46-11-00	97,859.47 F	50-05-00	105,289.95 F		
43-06-00	90,606.96 F	47-00-00	98,036.36 F	50-06-00	105,466.89 F		
43-07-00	90,783.86 F	47-01-00	98,213.25 F	50-07-00	105,643.83 F		
43-08-00	90,960.75 F	47-02-00	98,390.14 F	50-08-00	105,820.77 F		
43-09-00	91,137.64 F	47-03-00	98,567.03 F	50-09-00	105,997.71 F		
43-10-00	91,314.53 F	47-04-00	98,743.92 F	50-10-00	106,174.66 F		
43-11-00	91,491.42 F	47-05-00	98,920.81 F	50-11-00	106,351.60 F		
44-00-00	91,668.31 F	47-06-00	99,097.70 F	51-00-00	106,528.54 F		
44-01-00	91,845.20 F	47-07-00	99,274.59 F	51-01-00	106,705.48 F		
44-02-00	92,022.09 F	47-08-00	99,451.48 F	51-02-00	106,882.42 F		
44-03-00	92,198.98 F	47-09-00	99,628.38 F	51-03-00	107,059.36 F		
44-04-00	92,375.87 F	47-10-00	99,805.27 F	51-04-00	107,236.30 F		
44-05-00	92,552.76 F	47-11-00	99,982.16 F	51-05-00	107,413.24 F		
44-06-00	92,729.65 F	48-00-00	100,159.05 F	51-06-00	107,590.18 F		
44-07-00	92,906.54 F	48-01-00	100,335.94 F	51-07-00	107,767.12 F		
44-08-00	93,083.43 F	48-02-00	100,512.83 F	51-08-00	107,944.06 F		
44-09-00	93,260.32 F	48-03-00	100,689.72 F	51-09-00	108,121.00 F		
44-10-00	93,437.21 F	48-04-00	100,866.61 F	51-10-00	108,297.95 F		
44-11-00	93,614.10 F	48-05-00	101,043.50 F	51-11-00	108,474.89 F		
45-00-00	93,790.99 F	48-06-00	101,220.39 F	52-00-00	108,651.83 F		
45-01-00	93,967.88 F	48-07-00	101,397.28 F	52-01-00	108,828.77 F		
45-02-00	94,144.77 F	48-08-00	101,574.19 F	52-02-00	109,005.71 F		
45-03-00	94,321.66 F	48-09-00	101,751.14 F	52-03-00	109,182.65 F		
45-04-00	94,498.55 F	48-10-00	101,928.08 F	52-04-00	109,359.59 F		
45-05-00	94,675.44 F	48-11-00	102,105.02 F	52-05-00	109,536.53 F		

All fractional values are to be calculated between the one inch values at the point of strapping

**BOLD DENOTES ROOF CRITICAL ZONE**