Applied
Volumetric
Corporation
Calibration Reports

Email: info@avccr.com
Toll Free: 1-855-561-4632
Local Phone: (587) 794-4632
Fax Submission: 1-855-707-5082

Tank Calibration Survey – Report Details

Client Inspection Agency

Company –	Address –
File Number –	City –
Customer Email –	State/Prov –
Phone/Fax -	Zip/Postal Code -

Inspector Information

Name/Contact -	Email –
	Phone –

Tank Details

Tank Number –	Tank Serial –
Date Strapped –	Owner –
Year Built -	Facility Name & Location –

Report Data:

Main Table Volume – Second Table Volume (if requested) –	Volumes – Barrel (bbl), Mbbl, US Gallon Imperial Gallon, Cubic Inch, Litre, Cubic Metre Other : Please specify
Main Table Increment – Second Table Increment – Out of Round Increment –	Increments – 1 Inch, 1/2", 1/4", 1/8", 1/16" 1 Foot, 1/10', 1/100' 1 mm, 1 cm, 5 cm Other : Please specify
Table Layout – Portrait/Landscape Innage/Ullage/Both –	Table Sizes – $8^{1/2}$ X 11" (Letter / A4), $8^{1/2}$ X 14" (Legal), 11 X 17" (Ledger / A3) Other: Please specify

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Tank Calibration – Data Survey

Tank Dimensions from Nameplate/Terminal

Shell Material - Carbon Steel, Stainless Steel, Aluminum, Copper, Fibreglass, Other : Please Specify		
Is Tank (Insulated / Not Insulated)		
	value	unit
(Overflow or Foam-line) distance to top		
If Foam-line : (Stop Table/Calculate Full Height)		
Product Calibration Description eg. Water -		
Product Service Description eg. Gasoline -		

	value	unit
Nominal Tank Diameter		
Nominal Tank Height		
Safe Fill Height		
Calibration Product Height		
Calibration Product Density		
Service Product Density		
Product Temperature		°F/°C
Ambient Air Temperature		°F/°C
Reference Temperature (60°F/15°C)		°F/°C
Operating Temperature		°F/°C

Tape Certificate & Measured Tank Dimensions

Master Tape Serial # -		
Certified Tape Factor -		
	value	unit
Master Tape Tension		
Master Tape Span		
Master Tape Calibrated Length		
Reference Circumference		
Circumference Method - (tape/optical) see Optical Survey form		

	value	unit
Horizontal Distance To Gauge		
Height of Gauge above roof		
Reference Gauge Height		
Measured Tank Height		
Gauge Point Description -		

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Tank Calibration – Dimension Survey

Course Number	Measure[1] Height %	Circumference[2] Unit	Course Height[3] Unit	Plate Thickness Unit	Method of Construction[4]	Plates Per Course	Number of Strap Rises	Strap Rise Width[5] Unit	Strap Rise Depth[6] Unit

1 – Estimated height of measurement point (0% - bottom of ring, 100% - top of ring) 2 – Measured strap circumference (optical methods may only reference one course strap)
3 – Measured height of course ring 4 – Fitment & Joint : eg.Butt-weld, Lap-Rivet 5 – Width of shell protrusion under strap 6 – Height of protrusion outward from shell

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Tank Calibration - Deadwood Survey

Quantity	Interior / Exterior	Category	Description	Diameter	Length	Width	Depth	Thickness	Open / Closed	Start Height	End Height

Categories : Round Sump, Pan Sump, Box Sump,
Exterior Horizontal Pipe, Interior Horizontal Pipe, Interior Vertical Pipe,
Interior Steel, Square Blinds, Square Closed Shape, Round Plate

For Unconventional deadwood, please submit drawing with dimensions

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Tank Calibration – Shell Optical Survey

Measurements in : □ Inches □ Millimetres □ Feet
□ Gradians □ Degrees □ Other _____

Optical Readings : □ Internal □ External
Direction : Clockwise / Counter-Clockwise

Course #																			Distance	
Horizontal Stations	Ref																		To	value
	1																			
	2																			
	3																			
	4																			
	5																			
	6																			
	7																			
	8																			
	9																			
	10																			
	11																			
	12																			
	13																			
	14																			
	15																			
	16																			
	17																			
	18																			
	19																			
	20																			

For Station readings above 20 continue on page 7. For Tanks with more than 10 Course measurements, record on reverse.

Tank Diameter (Feet)	Tank Diameter (Metres)	Minimum Stations
50	15	8
100	30	12
150	50	16
200	70	20
250	85	24
300	100	30
350	120	36

If Feet : Circumference / 30
If Metres : Circumference / 9
Round up to an even number of Stations

Example: Recording Optical data for MPMS 2.2B, 2.2C-C, 2.2C-A, 2.2C-D

Course #	1		
Horizontal Stations	ref		strap
	1	0.706 m	0.709 m
	2	0.911 m	0.913 m
	3		
	4		

Course #	1		
ref	θ_{Lo}	θ_{Hi}	
1	24 .2325	60 .9253	
2	44 .4694	94 .5188	
3			
4			

Course #	1			Distance	
ref	α	β		to	value
1	24 .2325	60 .9253	α-β		1512 m
2	44 .4694	94 .5188			
3					
4					

Course #	1				Distance	
ref	θ	α	β		to	value
1	60 .9253	24 .2325	60 .9253		2	12.5 m
2					3	13.2 m
3					4	10.9 m
4					5	12.7 m

External Strap + Optical Offset, External Strap + Optical Angle, Internal Optical Circumference, External Optical Angle
* Values are for example only and are not accurate data representations

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Tank Calibration – Bottom Plate Survey

Measurements in : □ Inches □ Millimetres □ Feet □ Other _____ **Direction : Clockwise / Counter-Clockwise**

Other ->																	
	Shell	1'	5'	10'	15'	20'	30'	40'	50'	60'	70'	80'	90'	100'	110'	120'	Center
1																	
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	
25																	
26																	

Bottom Description – Liquid Calibrated, Physical Survey, Cone Up, Cone Down, Sloping, Flat, Other : Please Specify		
	value	units
Bottom Cone Height		
Liquid Calibration Volume		

Strike Point Description -		
	value	units
Strike Point Height		
Shell Height closest to Strike point		
Datum Height		

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Tank Calibration – Additional Shell Optical Survey

Course																			Distance	
Horizontal Stations	Ref																		To	value
	21																			
	22																			
	23																			
	24																			
	25																			
	26																			
	27																			
	28																			
	29																			
	30																			
	31																			
	32																			
	33																			
	34																			
	35																			
	36																			
	37																			
	38																			

Tank Calibration – Additional Bottom Plate Survey

Other ->																	
	Shell	1'	5'	10'	15'	20'	30'	40'	50'	60'	70'	80'	90'	100'	110'	120'	Center
27																	
28																	
29																	
30																	
31																	
32																	
33																	
34																	
35																	
36																	
37																	
38																	

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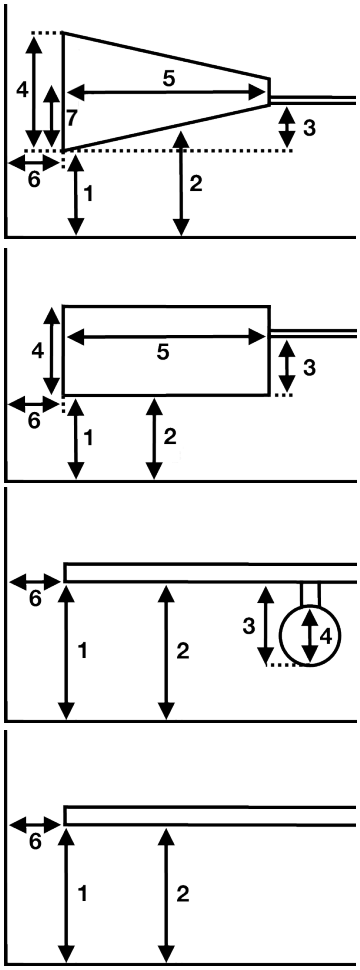
Tank Calibration – Floating Roof Survey

Roof Type: Cone, Dome, Flat, Floating (Internal/External), Other
Floating Roof Shape: Flat, Pontoon (Angled, Round, Square), Other
Floating Roof Data Source: Terminal / Measurement / Previous Table
Floating Roof Position during Measure: High / Low
Table Issue Position: High / Low
Table Deduction Method: Density / API / Not Deducted
No Deduction Option: Formula / Table



	value	unit
Floating Roof Weight		
1 – Height to bottom of deck or pontoon		
2 – Height from StrikePoint to Roof		
3 – Height from Roof to Pontoon		
4 – Pontoon Diameter or Height		
5 – Pontoon length along radius		
6 – Shell horizontal to Roof edge		
7 – Roof edge vertical to seal / product line		
Pin Distance setting for Hi/Lo		

For other non-conforming roof designs please complete a sketch below

Measurements in : □ Inches □ Millimetres □ Feet □ Other _____

Other Distance ->																
Lowest point	Rim	Strike	5'	10'	15'	20'	30'	40'	50'	60'	70'	80'	90'	100'	110'	120'	Center