



Receipt Date: July 23, 2015
Test Date: July 23, 2015
Report Date: July 23, 2015

State Test No.: 334583
Serial No.: 3610-02
Barcode: 200685

Calibration Report

WESTMOR FLUID SOLUTIONS LLC
14044 W. FREEWAY DRIVE
COLUMBUS, MN 55038
Contact: Ryan Hartin
Phone: 763-502-9613
PO Number: NONE
SOP: 33
Technician ID: 18

Item(s) Submitted: 100 Gallon Prover
Manufacturer: Brownie
Material: Mild Steel
Description: Dry Bottom
Condition: Good
Temperature: 26.1 °C
Pressure: 737.1 mmHg
Relative Humidity: 44. %
Standard H₂O Temp.: 17.9 °C
Artifact H₂O Temp.: 18.0 °C

Nominal Volume (gal)		Tested		Uncertainty (in ³)	Coefficient of Expansion(/°F)
		Volume (gal)	Error (in ³)		
100	As Found	100.026	6.0	3.0	0.0000186
	As Left	100.000	0.0	3.0	

Neck Calibration: No neck calibration was done at this time.

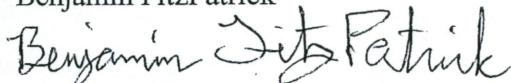
This prover has been calibrated as a "to contain after wet down" vessel with a drain time of 30 seconds after cessation of full flow and at a reference temperature of 60 °F.

The prover listed above has been compared by volumetric transfer methods to the standards of the State of Minnesota using water as the calibration medium. The standards are traceable to the SI through NIST. Statistical process control charts indicate standards are currently in control. All gauges were sealed in place.

The reported uncertainty conforms to NIST Technical Note 1297. The confidence interval is 95 %.

Results apply to item identified in this report only.

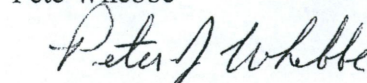
Benjamin FitzPatrick



Deputy Director

Reviewed by:

Pete Whebbe



Metrologist

Receipt Date: July 27, 2015
Test Date: July 28, 2015
Report Date: July 28, 2015



State Test No.: 334601
Serial No.: 11978368-1
Barcode: 202358

Calibration Report

WESTMOR FLUID SOLUTIONS LLC
14044 W. FREEWAY DRIVE
COLUMBUS, MN 55038
Contact: Ryan Hartin
Phone: 763-502-9613
PO Number: NONE
SOP: 33
Technician ID: 07

Item(s) Submitted: 1000 Gallon Prover
Manufacturer: Determan Brownie Inc
Material: Stainless Steel (304)
Description: Dry Bottom
Condition: Excellent
Temperature: 24.8 °C
Pressure: 732.8 mmHg
Relative Humidity: 56. %
Standard H₂O Temp.: 15.5 °C
Artifact H₂O Temp.: 15.9 °C

Nominal Volume (gal)	Tested			Uncertainty (in ³)	Coefficient of Expansion(/°F)
		Volume (gal)	Error (in ³)		
1000	As Found	999.981	-4	28	0.0000288
	As Left	999.981	-4	28	

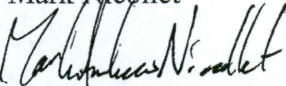
Neck Calibration: No neck calibration was done at this time.


This prover has been calibrated as a "to contain after wet down" vessel with a drain time of 30 seconds after cessation of full flow and at a reference temperature of 60 °F.

The prover listed above has been compared by volumetric transfer methods to the standards of the State of Minnesota using water as the calibration medium. The standards are traceable to the SI through NIST. Statistical process control charts indicate standards are currently in control. All gauges were sealed in place.

The reported uncertainty conforms to NIST Technical Note 1297. The confidence interval is 95 %.

Results apply to item identified in this report only.

Mark Nicollet

Quality Manager

Reviewed by:
Pete Whebbe

Metrologist



Receipt Date: July 27, 2015
Test Date: July 28, 2015
Report Date: July 28, 2015

State Test No.: 334600
Serial No.: 051320997-0102
Barcode: 202342

Calibration Report

WESTMOR FLUID SOLUTIONS LLC
14044 W. FREEWAY DRIVE
COLUMBUS, MN 55038
Contact: Ryan Hartin
Phone: 763-502-9613
PO Number: NONE
SOP: 33
Technician ID: 07

Item(s) Submitted: 100 Gallon Prover
Manufacturer: Determan Brownie Inc
Material: Stainless Steel (304)
Description: Dry Bottom
Condition: Excellent
Temperature: 24.6 °C
Pressure: 732.6 mmHg
Relative Humidity: 52. %
Standard H₂O Temp.: 16.6 °C
Artifact H₂O Temp.: 16.6 °C

Nominal Volume (gal)		Tested Volume (gal)	Error (in ³)	Uncertainty (in ³)	Coefficient of Expansion(/°F)
100	As Found	99.984	-3.8	3.0	0.0000288
	As Left	99.984	-3.8	3.0	

Neck Calibration: No neck calibration was done at this time.

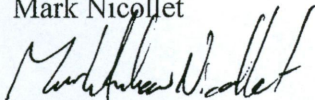
This prover has been calibrated as a "to contain after wet down" vessel with a drain time of 30 seconds after cessation of full flow and at a reference temperature of 60 °F.

The prover listed above has been compared by volumetric transfer methods to the standards of the State of Minnesota using water as the calibration medium. The standards are traceable to the SI through NIST. Statistical process control charts indicate standards are currently in control. All gauges were sealed in place.

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Results apply to item identified in this report only.

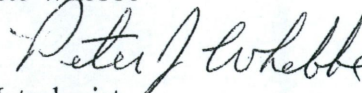
Mark Nicollet



Quality Manager

Reviewed by:

Pete Webbe



Metrologist