MINNESOTA DEPARTMENT OF COMMERCE
WEIGHTS & MEASURES DIVISION

14305 SOUTHCROSS DRIVE #150
BURNSVILLE, MN 55306-7008
MN.GOV/COMMERCE/
651.539.1555 FAX 952.435.4040
AN EQUAL OPPORTUNITY EMPLOYER

Receipt Date:	April 29, 2016	Report No.:	335894
Cal. Date:	April 29, 2016	Serial No.:	44588
Report Date:	April 29, 2016	Barcode:	202232

Calibration Certificate

RJT TESTING & SERVICE
49134 150TH ST
DONNELLY, MN 56235
Contact: Randy Fults
Phone: 320-589-4421
PO Number: None
SOP: 34
Technician ID: 19

Item(s) Submitted:	100 Gallon LPG Prover
Manufacturer:	Arrow Tank
Material:	Mild Steel
Description:	Zero Bottom
Condition:	Good
Temperature:	19.2 °C
Pressure:	741 mmHg
Relative Humidity:	45.5 %
Standard H_2O Temp.	10.7 °C
Artifact H_2O Temp.:	11.0 °C

Nominal Volume (gal)		Calibrated Volume (gal)	Error (in^3)	k	U (in^3)	CCE ($/^oF$)
100	As Found (at 100 psig)	99.970	-7.0	2.02	5.3	0.0000186
	As Left (at 100 psig)	99.970	-7.0			

Neck Calibration: No neck calibration was performed 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. 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.

All tolerances and specifications were evaluated according to NIST Handbook 105-4 (2010). Uncertainty calculations contain the components in NIST SOP 21 and conform to the ISO/IEC Guide to the Expression of Uncertainty in Measurement (2008), including covereage factors (k) calculated at the approximate 95.45 % confidence level. Results apply to item identified in this report only.

CCE is the cubical coefficient of thermal expansion, and the reference temperature is 60 °F.

Erik Alfvin
Metrologist

Reviewed by:
Mark Nicollet
Quality Manager

NVLAP LAB CODE 105003-0