



Weights & Measures Metrology Laboratory
 14305 Southcross Drive #150
 Burnsville, MN 55306-7008
 651.539.1555 FAX 651.539.1553

Receipt Date: July 9, 2014
 Test Date: July 10, 2014
 Report Date: July 10, 2014

State Test No.: 332781
 Serial No.: 42495
 Bar Code: 202544

Calibration Report

CHS PIPELINES & TERMINALS
 HIGHWAYS 2 & 52 WEST
 MINOT, ND 58702
 Contact: BOB FOGARTY
 Phone: 701-852-1666
 PO Number: None
 SOP: 33
 Technician ID: 08

Item(s) Submitted: 1000 Gallon Prover
 Manufacturer: Brown Steel Tank
 Material: ms
 Description: Dry Bottom
 Condition: Good
 Temperature: 26.°C
 Pressure: 738.4 mmHg
 Relative Humidity: 45. %

Nominal Volume		Volume (gallons)	Error (in ³)	Uncertainty (in ³)	Coefficient of Expansion(/°F)
1000 gal	As Found	1000.03	6	28	0.0000186
	As Left	1000.03	6	28	

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

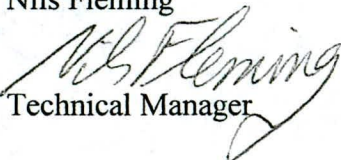
This prover has been calibrated as a "to contain after wet down" vessel with a drain time of 30 seconds after cessation of flow and at a reference temperature of 60°F.

The prover listed above has been compared by volumetric transfer methods to the standards of the State of Minnesota. 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.

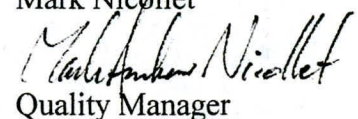
Nils Fleming



Technical Manager

Reviewed by:

Mark Nicollet



Quality Manager

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Calibration report

Cenex Pipeline, LLC



United States Department of Commerce National Institute of Standards and Technology

Certificate of Metrological Traceability For:

Minnesota

This laboratory has demonstrated evidence of an unbroken chain of metrological traceability of its standards to the international system of units (SI), documented measurement uncertainties, uses documented measurement procedures, successfully completed training and proficiency tests, documented calibration intervals, submitted a quality management system, and demonstrated suitable measurement assurance for the Scope listed on this certificate.



The Office of Weights and Measures Program assesses laboratories to NIST Handbook 143 - Program Handbook for State Weights and Measures Laboratories and ISO/IEC 17025:2005.

2014

Scope

Mass Echelon I

30 kg to 1 mg

Mass Echelon II

50 kg to 1 mg
1000 lb to 0.001 lb
4 oz to 0.03125 oz

Mass Echelon III

50 kg to 1 mg
5000 lb to 0.001 lb
8 oz to 0.03125 oz

Weight Carts

10 000 lb to 2000 lb

Wheel Load Weighers

20000 lb to 2000 lb

Railroad Test Cars

110 000 lb to 80 000 lb

Volume Gravimetric, I

20 L to 1 mL
100 gal to 0.25 qt

Volume Transfer, II

1500 gal to 5 gal
100 gal to 25 gal LPG

A handwritten signature in blue ink, reading "Carol T. Hockert".

Carol T. Hockert, Chief
NIST Office of Weights and Measures

Effective Dates: 2014-01-01 to 2014-12-31