

Precision Proving Ltd

Brooks Small volume Prover REPORT

svp1@telus.net
 Office: 780-849-9335
 Fax: 780-849-6161
 www.precisionproving.com

Client: Harvest Operations Corp.
Lease: 4-36-86-11W5m
Location: Evi

Date: Thursday, June 23, 2016
Time: 12:21:13PM

Report Number: 40

PREVIOUS REPORT

Date: 31/May/16
 Meter Factor: **1.0016**
 KFactor: **99840.25**
 Repeatability: 0.03
 Temperature: 27.32
 Pressure: 124.9
 Rate: 51.3
 Corr. Density: 826.65
 Raw Density: 817.44
 Totalizer: 0

METER DATA

Meter ID: Truck Unloading
 Model: DS-300
 Manufacturer: Micro Motion
 Serial: 220278
 Size: 3.00
 K Factor: 100,000.00
 Compensated: T.A.
 Totalizer: 0
 Throughput: 0
 Flow rate: Cubic Meters Per Hour

PROVER DATA

Cal. Date: 01/03/2014
 Serial Number: 8810-6569-1-1
 Prover Volume: 0.0396910 UPstream
 Inside Diameter: 12.25
 Wall Thickness: 0.875
 Material: 17-4 PH Stainless
 Linear Coefficient: 0.0000014
 Invar Temp: 20.00
 Passes: 5
 Proving Mode: Volume

PRODUCT DATA

Avg. of the runs

Type: Crude

API Table: 53A/54A

Avg. Density @ 15°C: 829.3

Vapor Press: 0.0

Avg. Obs Density: 815.7

Avg. Obs Temp: 33.3

Run No.	Round Pulses	Frequency Hz	Flow Rate	Meter Temp	Prover Temp	Meter Press	Prover Press	N.O.P. kPa	Est. Meter Factor
9	19,798.592	615.889	22.2	33.0	33.0	100.0	6.3	0.0	1.0027
7	19,811.455	606.944	21.8	33.2	33.2	100.0	13.8	0.0	1.0020
8	19,786.342	599.667	21.6	33.3	33.3	100.0	12.4	0.0	1.0033
10	19,764.328	596.055	21.5	33.5	33.5	100.0	9.9	0.0	1.0044
11	19,735.346	571.000	20.6	33.4	33.4	100.0	9.3	0.0	1.0059
Average:	19,779.213	597.911	21.5	33.3	33.3	100.0	10.3	0.0	

CTSp 1.00040 X CPSp 1.00000 X CTLp 0.98373 X CPLp 1.00001 = CCFp 0.98413 X BPV x Passes 0.198455 = GSVp 0.195306

CTLm 0.98373 X CPLm 1.00009 = CCFm 0.98382 | NI(avg) 19,779.2130 / NKF 100,000.00 = IVm 0.197792 X CCFm 0.98382 = ISVm 0.194592

GSVp 0.195306 / ISVm 0.194592 = MF 1.0037 X CPL 1.00000 = **CMF 1.0037**

Temp: Deg.C

Press: kPa

Density: kg/m3

Factor Repeatability = 0.389 %

Deviation = 0.21 %

Security Seals

REMOVED INSTALLED

NOTES:

SIGNED BY: _____

WITNESSED BY: _____ FOR _____ DATE _____

WITNESSED BY: _____ FOR _____ DATE _____