



Report of Analysis

Client: Plains Marketing, LP Job Location: Plains Marketing-Manitou Terminal Our Reference Number: US01155-0000149	Client Reference Number: RAL00
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Sample ID: 2014-NDMD-000150-002 Sample Designated As: Bakken Crude Oil Vessel/Location: Plains Trains Representing: MNUCXA022 Sample Pott B Spigot	Date Taken: 26-April-2014 Date Submitted: 26-April-2014 Date Tested: 05-May-2014 Drawn By: Intertek
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Method	Test	Result	Units
ASTM D6377	Determination of Vapor Pressure of Crude Oil: VPCR _x (Expansion Method)		
	VPCR 4 (100°F)	12.61	psi
	VPCR 4 (80°F)	9.86	psi
	VPCR 4 (60°F)	7.68	psi
ASTM D5191	Vapor Pressure of Petroleum Products (Mini-Method)		
	Dry Vapor Pressure Equivalent, ASTM	10.37	psi
	Container Size	1-L	
ASTM D5002	Density and Relative Density of Crude Oils Average API Gravity @ 60°F	42.9	°API @ 60°F
ASTM D5002	Density and Relative Density of Crude Oils Average API Gravity @ 115°F	47.6	°API @ 115°F

Signed: _____
 Intertek
 Jordan Reinbold, Laboratory Technician

Date: _____