



[KEYERA BRAZEAU RIVER GAS PLANT / 3-12-46-14W5] FIRST TOTE

Customer: PTRHTF30084	System Information	Sample Information
Keyera Partnership Brazeau River Ga... Box 7318 Drayton Valley, AB T7A 1S5 Canada Attn: Don Renner Tel: (780)894-3601 E-Mail: don_renner@keyera.com	System Volume: 0 ltr Bulk Operating Temp: Not Specified Heating Source: Blanket: Fluid: PETRO CANADA PETRO-THERM Make:	Lab No: 02044442 Analyst: Kevin McDermott Sample Date: 12/15/15 Received Date: 12/30/15 Completed: 01/06/16 Kevin McDermott kevin.mcdermott@hollyfrontier.com

Recommendation: Flash point and viscosity are severely low, yet other properites appear close to normal suggesting significant contamination.

Comments: COC Flash Point is severely low. (GCD) % < 335°C is marginally high.

Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
12/15/15	12/30/15	6.0m		320 / 160	260.8	23.8	0.06	0.047	672 / 356	802 / 428	900 / 482	7.05
Baseline Data				433 / 223		34.2	0.03		720 / 382	817 / 436	900 / 482	1.00



