



[KEYERA BRAZEAU RIVER GAS PLANT / 3-12-46-14W5] 400

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: 02044441 Analyst: Kevin McDermott Sample Date: 12/18/15 Received Date: 12/30/15 Completed: 01/06/16 Kevin McDermott kevin.mcdermott@hollyfrontier.com

Recommendation: Viscosity and flash point both very low, suggesting contamination. Other properties look close to normal.

Comments: COC Flash Point is abnormally 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	%
12/18/15	12/30/15	6.0m	400	349 / 176	213.9	23.8	0.06	0.041	669 / 354	801 / 427	899 / 482	7.27
Baseline Data				433 / 223		34.2	0.03		720 / 382	817 / 436	900 / 482	1.00



