

## Crude Monitor.ca Mini-Assay Program

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**Crude Name:** Western Canadian Select (WCS)

**Sample Location:** Hardisty, AB

**Assay Month:** September 2006

<b>Whole Crude</b>		<b>Naphtha (IBP to 190oC)</b>	
Density (kg/m3):	939.2	Density (kg/m3):	696.3
API gravity (oAPI):	19.03	API gravity (oAPI):	71.54
Sulphur (wt%):	3.49	Sulphur (wt%):	0.06
Nitrogen (mass ppm):	1921.5	Nitrogen (mass ppm):	
		Mass % recovery:	11.74
		Volume % recovery:	15.84
		<b>Distillate (190 to 343oC)</b>	
		Density (kg/m3):	877.3
		API gravity (oAPI):	29.64
		Sulphur (wt%):	1.12
		Nitrogen (mass ppm):	234.6
		Mass % recovery:	17.18
		Volume % recovery:	18.39
		<b>Gas Oil (343 to 527oC)</b>	
		Density (kg/m3):	948.7
		API gravity (oAPI):	17.53
		Sulphur (wt%):	2.64
		Nitrogen (mass ppm):	911.1
		Mass % recovery:	26.74
		Volume % recovery:	26.47
		<b>Residuum (527oC+)</b>	
		Density (kg/m3):	1059.2
		API gravity (oAPI):	1.98
		Sulphur (wt%):	5.72
		Nitrogen (mass ppm):	3320.0
		Viscosity (cSt at 100oC):	37,830
		Mass % recovery:	44.34
		Volume % recovery:	39.30

### Temperature conversion

Centigrade	Fahrenheit
190	375
343	650
527	980

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