



7-46-1000
WT

OIL ANALYSIS

Container Identification PB-1		Laboratory Number O42149A											
Operator Name PARAMOUNT RESOURCES LTD.													
Unique Well Identifier	Well Name PARAMOUNT et al FORT LIARD F-36		Elevation KB m GRD m										
Field or Area FORT LIARD	Pool or Zone	Sampler's Company AGAT											
Test Type	Test No.	Test Recovery	Name of Sampler										
Test Interval or Perfs		Sampling Point TEST SEPARATOR	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Separator</td> <td style="padding: 2px;">Reservoir</td> <td style="padding: 2px;">Source</td> <td style="padding: 2px;">Sampled</td> <td style="padding: 2px;">Received</td> </tr> <tr> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> </tr> </table>	Separator	Reservoir	Source	Sampled	Received					
Separator	Reservoir	Source	Sampled	Received									
		Pressure (kPa) Temperature (°C)											
Date Sampled Aug 14, 1999	Date Received Aug 27, 1999	Date Reported Aug 31, 1999	Analyst V,J										
Other Information SAMPLED @ 09:00hrs													

Sample Properties

Colour of Clean Oil	Colour Number ASTM D-1500
--- Colorless	L-1 A.S.T.M.

B.S. & W. (Volume Fraction)

Water	Sediment	Total
Trace	Trace	Trace
Free Water		
2.92 vol %		

API Gravity @ 15°C
48.48

Density - After Cleaning

Relative	Absolute kg/m³
0.7862	785.5

Total Sulphur Mass Fraction	Pour Point / °C (A.S.T.M. D-97)
0.000043	<-50

Viscosity

Temp °C	Absolute mPa's	Kinematic mm²/s-1
25	0.87	1.12
38	0.71	0.92
50	0.60	0.79

Distillation

Volume Fraction	Temp / °C
0.05	92.1
0.10	103.3
0.15	111.3
0.20	118.4
0.25	126.5
0.30	134.6
0.35	141.7
0.40	149.8
0.45	156.9
0.50	165.0
0.55	173.0
0.60	183.2
0.65	190.2
0.70	198.3
0.75	209.5
0.80	222.6
0.85	235.8
0.90	255.0
0.95	285.3
F.B.P.	287.3

Method A.S.T.M. -D86*

Initial Boiling Point 68.9

Absolute Barometric Pressure (kPa) 88.6

Room Temp (°C) 16.0

Characterization Factor 11.7
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200 °C Naptha 0.71	275 °C Kerosene 0.93	350 °C Light Gas Oil 0.97
Recovered 0.97	Residue 0.02	Distillation Loss 0.01

Remarks:

The distillation temperatures have been corrected to 101.3 kPa (abs).
BS&W PERFORMED ON OIL PORTION ONLY.

