



OIL ANALYSIS

Container Identification PB-5		Laboratory Number OG64752B	
Operator Name PARAMOUNT RESOURCES LTD.			
Unique Well Identifier NOT AVAILABLE		Well Name PARA et al FORT LIARD I-46	
		Elevation KB m 542.20 GRD m 537.20	
Field or Area FORT LIARD		Pool or Zone CHINKEH	
Sampler's Company SOLID PRODUCTION SERVICES			
Test Type	Test No.	Test Recovery	Name of Sampler
Test Interval or Perfs 1217.00-1222.00 mKB		Sampling Point WELLHEAD	
		Separator	Reservoir
		Source	Sampled
		Received	
		Pressure (kPa)	
		Temperature (°C)	
Date Sampled Jan 14, 2001		Date Received Jan 30, 2001	
		Date Reported Feb 12, 2001	
Analyst H,J,D			
Other Information FORMATION: CHINKEH SAND			

Sample Properties

Colour of Clean Oil Dk. Brown	Colour Number ASTM D-1500 D-8 A.S.T.M.
----------------------------------	---

B.S. & W. (Volume Fraction)

Water	Sediment	Total
0.200	0.001	0.201
Free Water 74 vol %		

API Gravity @ 15°C 31.30

Density - After Cleaning

Relative	Absolute kg/m³
0.8692	868.4

Total Sulphur Mass Fraction 0.00281	Pour Point / °C (A.S.T.M. D-97) 15
---	--

Viscosity

Temp °C	Absolute mPa·s	Kinematic mm²/s-1
25	21.90	25.40
38	10.22	11.97
50	7.19	8.49

Distillation

Volume Fraction	Temp / °C
0.05	145.7
0.10	167.9
0.15	195.2
0.20	223.6
0.25	251.9
0.30	281.2
0.35	306.5
0.40	330.8
0.45	352.0
F.B.P.	354.0

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

Initial Boiling Point 102.2

Absolute Barometric Pressure (kPa) 88.7
--

Room Temp (°C) 21.0

Characterization Factor 12.0

200 °C Naphtha 0.16	275 °C Kerosene 0.29	350 °C Light Gas Oil 0.44
Recovered 0.50	Residue 0.50	Distillation Loss 0.00

Remarks:

BS&W performed on oil portion only. The distillation temperatures have been corrected to 101.3 kPa (abs).

