



Container Identification PB 6F		Previous Number W62987A		Laboratory Number WG63334F			
Operator Name PARAMOUNT RESOURCES LTD.							
Unique Well Identifier I-02		Well Name PARA ET AL FT. LIARD			Elevation KB m GRD m		
Field or Area FT. LIARD		Pool or Zone MATTSON SAND		Sampler's Company SOLID PRODUCTION SERVICES			
Test Type	Test No.	Test Recovery			Name of Sampler		
Test Interval or Perfs		Sampling Point FRAC MANIFOLD		Separator	Reservoir	Source	
				Pressure (kPa)			
				Temperature (°C)			
Date Sampled Dec 31, 2000		Date Received Jan 04, 2001		Date Reported Jan 11, 2001		Analyst LN	
Other Information FLUID; 1060m							

Cations

ION	mg/L	Mass Fraction	mmol/L
Na	1582.0	0.300	68.8
K	89.0	0.017	2.3
Ca	70.0	0.013	1.7
Mg	33.0	0.006	1.4
Fe	8.8	0.002	0.2

Anions

ION	mg/L	Mass Fraction	mmol/L
Cl	1807.0	0.342	51.0
HCO ₃	881.8	0.167	14.5
SO ₄	805.0	0.153	8.4
CO ₃	Nil	Nil	Nil
OH	Nil	Nil	Nil

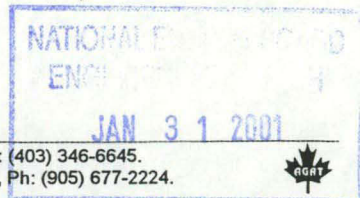
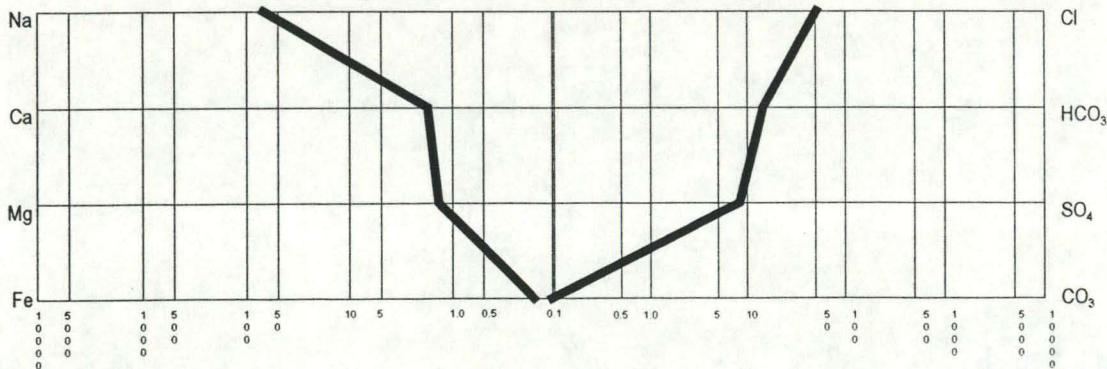
Other Measurements

Measurement	Value
Total Dissolved Solids (Calculated) mg/L	5276
Observed pH	8.08
H ₂ S (25°C) mg/L	N/D
Relative Density (25°C)	1.006
Resistivity / OHM-m (25°C)	1.420
Salinity %	0.32

Total Cations

Total Anions

Logarithmic Pattern mmol/L





Container Identification PB 7G	Previous Number W62987A	Laboratory Number WG63334G
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Operator Name PARAMOUNT RESOURCES LTD.
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Unique Well Identifier I-02	Well Name PARA ET AL FT. LIARD	Elevation	
		KB m	GRD m

Field or Area FT. LIARD	Pool or Zone MATTSON SAND	Sampler's Company SOLID PRODUCTION SERVICES
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Test Type	Test No.	Test Recovery	Name of Sampler

Test Interval or Perfs	Sampling Point FRAC MANIFOLD	Separator	Reservoir	Source	Sampled	Received
		Pressure (kPa)				
		Temperature (°C)				

Date Sampled Dec 31, 2000	Date Received Jan 04, 2001	Date Reported Jan 11, 2001	Analyst LN
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Other Information FLUID; 1500m
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Cations

ION	mg/L	Mass Fraction	mmol/L
Na	282.0	0.146	12.3
K	24.0	0.012	0.6
Ca	131.0	0.068	3.3
Mg	64.0	0.033	2.6
Fe	Trace	Trace	Trace

Anions

ION	mg/L	Mass Fraction	mmol/L
Cl	15.0	0.008	0.4
HCO ₃	59.8	0.031	1.0
SO ₄	1355.0	0.702	14.1
CO ₃	Nil	Nil	Nil
OH	Nil	Nil	Nil

Other Measurements

Measurement	Value
Total Dissolved Solids (Calculated) mg/L	1930
Observed pH	7.43
H ₂ S (25°C) mg/L	N/D
Relative Density (25°C)	1.005
Resistivity / OHM·m (25°C)	5.180
Salinity %	0.00

Total Cations

Total Anions

The ionic balance for this water exceeds 10%. The imbalance is caused by cations not analyzed for in the routine analysis.

Logarithmic Pattern mmol/L

