



Container Identification
PB3C

Operator Name
PARAMOUNT RESOURCES LTD.

Laboratory Number
05W146283C

Unique Well Identifier	Well Name	Elevation
NOT AVAILABLE	PARAMOUNT et al LIARD K-29A	KB m 416.40 GRD m 406.60

Field or Area	Pool or Zone	Sampler's Company
LIARD	NAHANNI	OPSCO

Test Type	Test No.	Test Recovery	Name of Sampler
		SAMPLE #3 END OF FLOW	

Test Interval or Perfs	Sampling Point	Separator	Reservoir	Source	Sampled	Received
OPEN HOLE	CHOKE MANIFOLD					
		Pressure (kPa)				
		Temperature				

Date Sampled	Date Received	Date Reported	Entered By	Certified By
Nov 03, 2005	Nov 23, 2005	Nov 29, 2005	ML	ML

Other Information

Note: Sampling Point, Unique Well Identifier and/or Pool or Zone information was unavailable at time of reporting. This information is integral to AGAT's WebFLUIDs, a comparison, history and trending analysis system.

Cations

ION	mg/L	mmol/L	meq/L
Na	36240.0	1576.4	1576.4
K	5180.0	132.5	132.5
Ca	14500.0	361.8	723.6
Mg	793.0	32.6	65.3
Fe	0.4	0.0	TRACE

Total Cations 2497.8

Anions

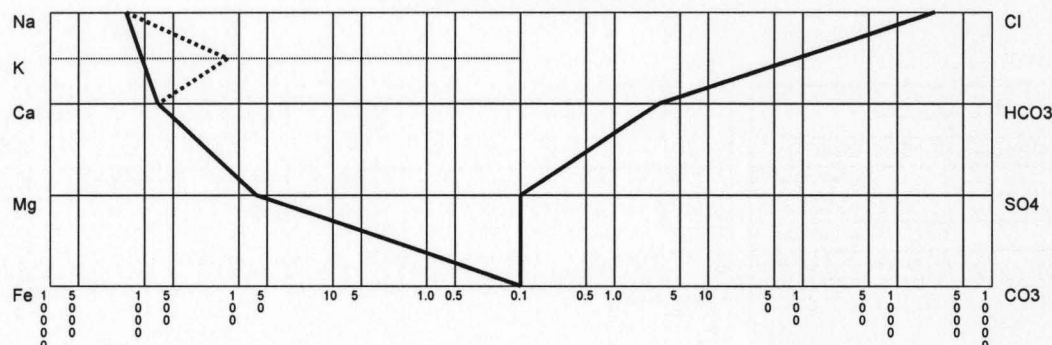
ION	mg/L	mmol/L	meq/L
Cl	88470.0	2495.4	2495.4
HCO ₃	183.0	3.0	3.0
SO ₄	TRACE	TRACE	TRACE
CO ₃	Nil	Nil	Nil
OH	Nil	Nil	Nil

Total Anions 2498.4

Other Measurements

Measurement	Value
Total Dissolved Solids (Calculated) mg/L	145366
Observed pH	6.59
H ₂ S (25°C) mg/L	N/D
Relative Density (25°C)	1.098
Resistivity/OHM-m (25°C)	0.083
Salinity %	14.56

Stiff Diagram (meq/L)





Container Identification	
PB2B	
Operator Name	
PARAMOUNT RESOURCES LTD.	
Laboratory Number	
05W146283B	
Unique Well Identifier	Well Name
NOT AVAILABLE	PARAMOUNT et al LIARD K-29A
Elevation	
KB m	416.40
GRD m	406.60
Field or Area	Pool or Zone
LIARD	NAHANNI
Sampler's Company	
OPSCO	
Test Type	Test No.
Test Recovery	
SAMPLE #2, MIDDLE OF FLOW	
Name of Sampler	
Test Interval or Perfs	Sampling Point
OPEN HOLE	CHOKE MANIFOLD
Date Sampled	Date Received
Nov 03, 2005	Nov 23, 2005
Date Reported	Entered By
Nov 29, 2005	ML
Certified By	
ML	
Other Information	

Note: Sampling Point, Unique Well Identifier and/or Pool or Zone information was unavailable at time of reporting. This information is integral to AGAT's WebFLUIDs, a comparison, history and trending analysis system.

Cations

ION	mg/L	mmol/L	meq/L
Na	31180.0	1356.3	1356.3
K	4620.0	118.2	118.2
Ca	9640.0	240.5	481.1
Mg	643.0	26.5	52.9
Fe	0.4	0.0	TRACE

Total Cations 2008.5

Anions

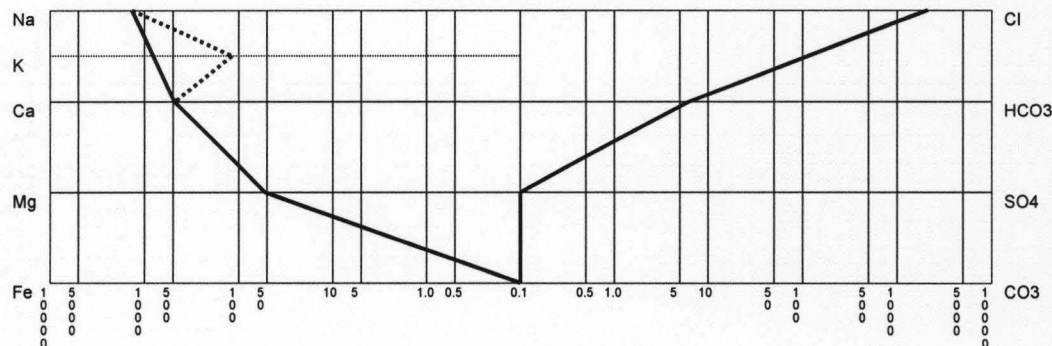
ION	mg/L	mmol/L	meq/L
Cl	74980.0	2114.9	2114.9
HCO3	381.3	6.2	6.2
SO4	TRACE	TRACE	TRACE
CO3	Nil	Nil	Nil
OH	Nil	Nil	Nil

Total Anions 2121.1

Other Measurements

Measurement	Value
Total Dissolved Solids (Calculated) mg/L	121444
Observed pH	6.88
H2S (25°C) mg/L	N/D
Relative Density (25°C)	1.086
Resistivity/OHM-m (25°C)	0.082
Salinity %	12.47

Stiff Diagram (meq/L)





Container Identification			
PB1A			
Operator Name		Laboratory Number	
PARAMOUNT RESOURCES LTD.		05W146283A	
Unique Well Identifier	Well Name		Elevation
NOT AVAILABLE	PARAMOUNT et al LIARD K-29A		KB m 416.40 GRD m 406.60
Field or Area	Pool or Zone	Sampler's Company	
LIARD	NAHANNI	OPSCO	
Test Type	Test No.	Test Recovery	Name of Sampler
		SAMPLE #1, START OF FLOW	
Test Interval or Perfs		Sampling Point	Separator Reservoir Source Sampled Received
OPEN HOLE		CHOKE MANIFOLD	Pressure (kPa)
			Temperature
Date Sampled	Date Received	Date Reported	Entered By Certified By
Nov 03, 2005	Nov 23, 2005	Nov 29, 2005	ML ML
Other Information			

Note: Sampling Point, Unique Well Identifier and/or Pool or Zone information was unavailable at time of reporting. This information is integral to AGAT's WebFLUIDs, a comparison, history and trending analysis system.

Cations

ION	mg/L	mmol/L	meq/L
Na	1656.0	72.0	72.0
K	230.0	5.9	5.9
Ca	870.0	21.7	43.4
Mg	58.3	2.4	4.8
Fe	0.4	0.0	TRACE

Total Cations 126.1

Anions

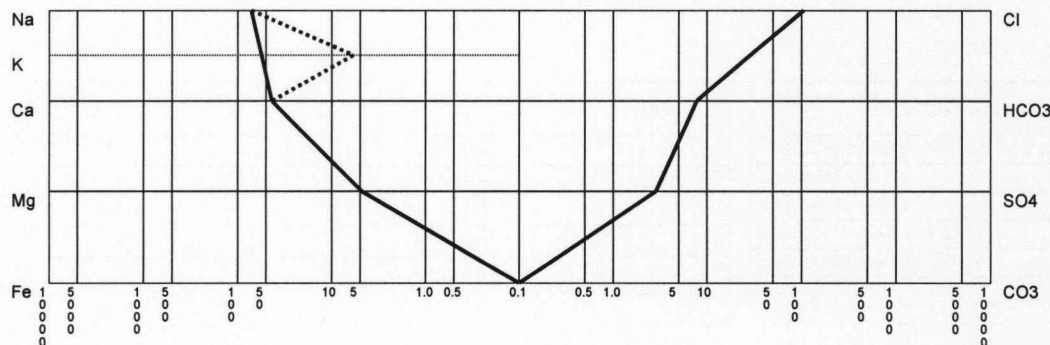
ION	mg/L	mmol/L	meq/L
Cl	3749.0	105.7	105.7
HCO3	472.8	7.7	7.7
SO4	138.0	1.4	2.9
CO3	Nil	Nil	Nil
OH	Nil	Nil	Nil

Total Anions 116.3

Other Measurements

Measurement	Value
Total Dissolved Solids (Calculated) mg/L	7174
Observed pH	7.94
H2S (25°C) mg/L	N/D
Relative Density (25°C)	1.002
Resistivity/OHM·m (25°C)	1.004
Salinity %	0.68

Stiff Diagram (meq/L)





Container Identification
PB4D

Operator Name
PARAMOUNT RESOURCES LTD.

Laboratory Number
05W146283D

Unique Well Identifier	Well Name	Elevation
NOT AVAILABLE	PARAMOUNT et al LIARD K-29A	KB m 416.40 GRD m 406.60

Field or Area	Pool or Zone	Sampler's Company
LIARD	NAHANNI	OPSCO

Test Type	Test No.	Test Recovery	Name of Sampler

Test Interval or Perfs	Sampling Point	Separator	Reservoir	Source	Sampled	Received
OPEN HOLE	MANIFOLD					
		Pressure (kPa)				
		Temperature				

Date Sampled	Date Received	Date Reported	Entered By	Certified By
Nov 12, 2005	Nov 23, 2005	Nov 29, 2005	ML	ML

Other Information

Note: Sampling Point, Unique Well Identifier and/or Pool or Zone information was unavailable at time of reporting. This information is integral to AGAT's WebFLUIDs, a comparison, history and trending analysis system.

Cations

ION	mg/L	mmol/L	meq/L
Na	47360.0	2060.0	2060.0
K	6500.0	166.2	166.2
Ca	14600.0	364.3	728.6
Mg	962.0	39.6	79.2
Fe	0.3	0.0	TRACE

Total Cations 3034.0

Anions

ION	mg/L	mmol/L	meq/L
Cl	103000.0	2905.3	2905.3
HCO ₃	15.3	0.2	0.2
SO ₄	TRACE	TRACE	TRACE
CO ₃	Nil	Nil	Nil
OH	Nil	Nil	Nil

Total Anions 2905.5

Other Measurements

Measurement	Value
Total Dissolved Solids (Calculated) mg/L	172437
Observed pH	6.45
H ₂ S (25°C) mg/L	N/D
Relative Density (25°C)	1.116
Resistivity/OHM·m (25°C)	0.075
Salinity %	16.67

Stiff Diagram (meq/L)

