

## WATER ANALYSIS

<b>Container Identification</b> PB 6E		<b>Previous Number</b> WF62728C		<b>Laboratory Number</b> WF62805E		
<b>Operator Name</b> PARAMOUNT RESOURCES LTD.						
<b>Unique Well Identifier</b> I-02		<b>Well Name</b> PARA ET AL MOUNT COTY I-02			<b>Elevation</b> KB m 372.95 GRD m 367.90	
<b>Field or Area</b> MOUNT COTY		<b>Pool or Zone</b> MATTSON SAND		<b>Sampler's Company</b> SOLID PRODUCTION SERVICES		
<b>Test Type</b>	<b>Test No.</b>	<b>Test Recovery</b>			<b>Name of Sampler</b>	
<b>Test Interval or Perfs</b> 1059.00-1067.00 mKB		<b>Sampling Point</b> FRAC MANIFOLD		<b>Separator</b>	<b>Reservoir</b>	<b>Source</b>
				Pressure (kPa)		
				Temperature (°C)		
<b>Date Sampled</b> Dec 18, 2000		<b>Date Received</b> Dec 20, 2000		<b>Date Reported</b> Dec 20, 2000		<b>Analyst</b> LN
<b>Other Information</b> TIME: 11:00 HRS						

### Cations

ION	mg/L	Mass Fraction	mmol/L
Na	1716.0	0.305	74.6
K	108.0	0.019	2.8
Ca	26.7	0.005	0.7
Mg	11.8	0.002	0.5
Fe	26.1	0.005	0.5

### Anions

ION	mg/L	Mass Fraction	mmol/L
Cl	2233.0	0.397	63.0
HCO <sub>3</sub>	1302.9	0.232	21.4
SO <sub>4</sub>	200.0	0.036	2.1
CO <sub>3</sub>	Nil	Nil	Nil
OH	Nil	Nil	Nil

### Other Measurements

Measurement	Value
Total Dissolved Solids (Calculated) mg/L	5624
Observed pH	7.78
H <sub>2</sub> S (25°C) mg/L	N/D
Relative Density (25°C)	1.000
Resistivity / OHM·m (25°C)	1.320
Salinity %	0.40

Total Cations

Total Anions

### Logarithmic Pattern mmol/L





## WATER ANALYSIS

<b>Container Identification</b>
PB 7F

<b>Previous Number</b>	<b>Laboratory Number</b>
WF62728C	WF62805F

<b>Operator Name</b>
PARAMOUNT RESOURCES LTD.

<b>Unique Well Identifier</b>	<b>Well Name</b>	<b>Elevation</b>	
I-02	PARA ET AL MOUNT COTY I-02	KB m	372.95
		GRD m	367.90

<b>Field or Area</b>	<b>Pool or Zone</b>	<b>Sampler's Company</b>
MOUNT COTY	MATTSON SAND	SOLID PRODUCTION SERVICES

<b>Test Type</b>	<b>Test No.</b>	<b>Test Recovery</b>	<b>Name of Sampler</b>

<b>Test Interval or Perfs</b>	<b>Sampling Point</b>	<b>Separator</b>	<b>Reservoir</b>	<b>Source</b>	<b>Sampled</b>	<b>Received</b>
1059.00-1067.00	FRAC MANIFOLD					
mKB		<b>Pressure (kPa)</b>				
		<b>Temperature (°C)</b>				

<b>Date Sampled</b>	<b>Date Received</b>	<b>Date Reported</b>	<b>Analyst</b>
Dec 18, 2000	Dec 20, 2000	Dec 20, 2000	LN

<b>Other Information</b>
TIME: 13:00 HRS

### Cations

ION	mg/L	Mass Fraction	mmol/L
Na	2332.0	0.322	101.4
K	112.0	0.015	2.9
Ca	30.9	0.004	0.8
Mg	11.7	0.002	0.5
Fe	9.4	0.001	0.2

### Anions

ION	mg/L	Mass Fraction	mmol/L
Cl	3226.0	0.445	91.0
HCO <sub>3</sub>	1332.8	0.184	21.8
SO <sub>4</sub>	188.0	0.026	2.0
CO <sub>3</sub>	Nil	Nil	Nil
OH	Nil	Nil	Nil

### Other Measurements

Measurement	Value
Total Dissolved Solids (Calculated) mg/L	7242
Observed pH	7.90
H <sub>2</sub> S (25°C) mg/L	N/D
Relative Density (25°C)	1.003
Resistivity / OHM·m (25°C)	0.971
Salinity %	0.58

Total Cations

Total Anions

### Logarithmic Pattern mmol/L

