



Laboratories



GAS ANALYSIS

Container Identification AGAT 19021		Laboratory Number GF46887B	
Operator Name PARAMOUNT RESOURCES LTD.			
Unique Well Identifier Not Available	Well Name PARAMOUNT et al LIARD I-46		Elevation KB m GRD m
Field or Area LIARD	Pool or Zone MATTSON	Sampler's Company ATLAS WIRELINE SERVICES	
Test Type	Test No.	Test Recovery	Name of Sampler
Test Interval or Perfs 1683.00 mKB		Sampling Point RFT TOOL	Separator Pressure (kPa) Temperature (°C)
			Reservoir 1034
			Source 1034
			Sampled 800
			Received 21
Date Sampled Jan 10, 2000	Date Received Jan 12, 2000	Date Reported Jan 18, 2000	Analyst LQ
Other Information TEST #15 VST #3 OF 4			

COMP	MOLE FRACTION		PETROLEUM LIQUID mL • m³
	AIR FREE AS RECEIVED	AIR FREE ACID GAS FREE	
H2	TRACE	TRACE	
He	TRACE	TRACE	
N2	0.0476	0.0477	
CO2	0.0014	0.0000	
H2S	0.0000	0.0000	
C1	0.9473	0.9486	
C2	0.0035	0.0035	
C3	0.0002	0.0002	0.7
IC4	0.0000	0.0000	0.0
NC4	0.0000	0.0000	0.0
IC5	0.0000	0.0000	0.0
NC5	0.0000	0.0000	0.0
C6	0.0000	0.0000	0.0
C7+	0.0000	0.0000	0.0
Total	1.0000	1.0000	0.7

GROSS HEATING VALUE MJ/m³
15° C AND 101.325 kPa

Air Free As Received	Moisture & Acid Gas Free
36.04	36.09

RELATIVE DENSITY (CALCULATED)

Moisture Free	Moisture & Acid Gas Free
0.577	0.575

PSEUDO CRITICAL PROPERTIES (CALCULATED)

As Sampled		Acid Gas Free	
pPc (abs) kPa	pTc K	pPc (abs) kPa	pTc K
4551	188.1	4547	187.9

RELATIVE MOLECULAR MASS

Total Gas	C7+
16.7	0.0

VAPOUR PRESSURE (Pentanes +)

0.00 kPa

H2S g/m³

0.00





Container Identification AGAT 19186		Laboratory Number GF46887C																
Operator Name PARAMOUNT RESOURCES LTD.																		
Unique Well Identifier Not Available	Well Name PARAMOUNT et al LIARD I-46	Elevation KB m: GRD m:																
Field or Area LIARD	Pool or Zone MATTSON	Sampler's Company ATLAS WIRELINE SERVICES																
Test Type	Test No.	Test Recovery	Name of Sampler															
Test Interval or Perfs 1788.50 mKB		Sampling Point RFT TOOL	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Separator</th> <th>Reservoir</th> <th>Source</th> <th>Sampled</th> <th>Received</th> </tr> <tr> <td></td> <td></td> <td>1276</td> <td>1276</td> <td>1100</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>21</td> </tr> </table>	Separator	Reservoir	Source	Sampled	Received			1276	1276	1100					21
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		1276	1276	1100														
				21														
Date Sampled Jan 10, 2000	Date Received Jan 12, 2000	Date Reported Jan 18, 2000	Analyst LQ															
Other Information TEST #13 VST #4 OF 4																		

COMP	MOLE FRACTION		PETROLEUM LIQUID mL • m³
	AIR FREE AS RECEIVED	AIR FREE ACID GAS FREE	
H2	0.0001	0.0001	
He	0.0002	0.0002	
N2	0.0088	0.0088	
CO2	0.0035	0.0000	
H2S	0.0000	0.0000	
C1	0.9807	0.9842	
C2	0.0061	0.0061	
C3	0.0006	0.0006	2.2
IC4	TRACE	TRACE	TRACE
NC4	TRACE	TRACE	TRACE
IC5	0.0000	0.0000	0.0
NC5	0.0000	0.0000	0.0
C6	0.0000	0.0000	0.0
C7+	0.0000	0.0000	0.0
Total	1.0000	1.0000	2.2

GROSS HEATING VALUE MJ/m³
15° C AND 101.325 kPa

Air Free As Received	Moisture & Acid Gas Free
37.51	37.65

RELATIVE DENSITY (CALCULATED)

Moisture Free	Moisture & Acid Gas Free
0.564	0.561

PSEUDO CRITICAL PROPERTIES (CALCULATED)

As Sampled		Acid Gas Free	
pPc (abs) kPa	pTc K	pPc (abs) kPa	pTc K
4603	191.1	4594	190.7

RELATIVE MOLECULAR MASS

Total Gas	C7+
16.3	0.0

VAPOUR PRESSURE (Pentanes +)

0.00 kPa

H2S g/m³

0.00

