

**AGAT****Laboratories****CALGARY****COPY**

CALGARY

EDMONTON

GRANDE PRATRIE

GAS ANALYSIS

CONTAINER IDENTIFICATION C & G 2891		LABORATORY NUMBER G5053A																																																																									
OPERATOR NAME PARAMOUNT RESOURCES LTD.																																																																											
UNIQUE WELL IDENTIFIER CAMERON		WELL NAME PARAMOUNT et al CAMERON 60 10' N117 30' W B-08																																																																									
FIELD OR AREA CAMERON		ELEVATIONS KB m 789.90 GRD m 786.21																																																																									
POOL OR ZONE SULPHUR POINT		NAME OF SAMPLER NORTHLAND																																																																									
TEST TYPE NO		TEST RECOVERY TEST RECOVERY																																																																									
TEST INTERVAL OR PERFS 1403.0-1406.0 1408.0-1409.0 1412.0-1421.0 mKB		SAMPLING POINT METER RUN																																																																									
DATE SAMPLED (Y-M-D) 91-02-05		DATE RECEIVED (Y-M-D) 91-02-07																																																																									
DATE REPORTED (Y-M-D) 91-02-11		ANALYST SK																																																																									
OTHER INFORMATION B-08																																																																											
<table border="1" style="width:100%"><tr><th rowspan="2">COMP.</th><th colspan="2">MOLE FRACTION</th><th rowspan="2">PETROLEUM LIQUID CONTENT mL · m⁻³</th></tr><tr><th>AIR FREE AS RECEIVED</th><th>AIR FREE ACID GAS FREE</th></tr><tr><td>H₂</td><td>0.0001</td><td>0.0002</td><td rowspan="6"></td></tr><tr><td>He</td><td>0.0008</td><td>0.0008</td></tr><tr><td>N₂</td><td>0.0174</td><td>0.0186</td></tr><tr><td>CO₂</td><td>0.0560</td><td>0.0000</td></tr><tr><td>H₂S</td><td>0.0111</td><td>0.0000</td></tr><tr><td>C₁</td><td>0.8884</td><td>0.9520</td></tr><tr><td>C₂</td><td>0.0136</td><td>0.0146</td><td rowspan="3">23.7</td></tr><tr><td>C₃</td><td>0.0064</td><td>0.0069</td></tr><tr><td>IC₄</td><td>0.0010</td><td>0.0011</td><td>4.5</td></tr><tr><td>NC₄</td><td>0.0020</td><td>0.0022</td><td>8.6</td></tr><tr><td>IC₅</td><td>0.0006</td><td>0.0007</td><td>3.1</td></tr><tr><td>NC₅</td><td>0.0006</td><td>0.0007</td><td>3.0</td></tr><tr><td>C₆</td><td>0.0007</td><td>0.0008</td><td>3.9</td></tr><tr><td>C₇ +</td><td>0.0013</td><td>0.0014</td><td>8.8</td></tr><tr><td>C₈</td><td></td><td></td><td></td></tr><tr><td>C₉</td><td></td><td></td><td></td></tr><tr><td>C₁₀ +</td><td></td><td></td><td></td></tr><tr><td>TOTAL</td><td>1.0000</td><td>1.0000</td><td>55.6</td></tr></table>				COMP.	MOLE FRACTION		PETROLEUM LIQUID CONTENT mL · m ⁻³	AIR FREE AS RECEIVED	AIR FREE ACID GAS FREE	H ₂	0.0001	0.0002		He	0.0008	0.0008	N ₂	0.0174	0.0186	CO ₂	0.0560	0.0000	H ₂ S	0.0111	0.0000	C ₁	0.8884	0.9520	C ₂	0.0136	0.0146	23.7	C ₃	0.0064	0.0069	IC ₄	0.0010	0.0011	4.5	NC ₄	0.0020	0.0022	8.6	IC ₅	0.0006	0.0007	3.1	NC ₅	0.0006	0.0007	3.0	C ₆	0.0007	0.0008	3.9	C ₇ +	0.0013	0.0014	8.8	C ₈				C ₉				C ₁₀ +				TOTAL	1.0000	1.0000	55.6
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GROSS HEATING VALUE MJ·m ⁻³ 15° C AND 101.325 kPa 38.65																																																																											
MOISTURE AND ACID GAS FREE MEASURED 38.65 CALCULATED 38.65 DETERMINED DEW POINT 57.5 °C VAPOUR PRESSURE PENTANES PLUS 57.5 kPa																																																																											
ACTUAL GROSS HEATING VALUE: 36.33																																																																											
RELATIVE DENSITY																																																																											
MOISTURE FREE AS SAMPLED MEASURED 0.647 CALCULATED 0.647																																																																											
MOISTURE AND ACID GAS FREE MEASURED 0.589 CALCULATED 0.589																																																																											
PSEUDO CRITICAL PROPERTIES (CALCULATED)																																																																											
AS SAMPLED pPc (abs) 4779 kPa pTc 202.1 K																																																																											
ACID GAS FREE pPc (abs) 4572 kPa pTc 194.0 K																																																																											
RELATIVE MOLECULAR MASS																																																																											
TOTAL GAS 18.8 C ₇ + 107.2																																																																											
H ₂ S g/m ³ 15.94																																																																											
REMARKS:																																																																											