

**AGAT<sup>®</sup> Laboratories****GAS ANALYSIS**

CONTAINER IDENTIFICATION

AGAT 30629

LABORATORY NUMBER

GF34205B

OPERATOR NAME

PARAMOUNT RESOURCES LTD.

UNIQUE WELL IDENTIFIER

WELL NAME

KB m ELEVATIONS GRD m

PARAMOUNT at al LIARD F-36

470.30

464.80

FIELD OR AREA

POOL OR ZONE

NAME OF SAMPLER

COMPANY

LIARD

MATTSON

BAKER

TEST TYPE

NO

TEST RECOVERY

DST

2

60 DEG. 5' 46" latitude 123 DEG. 22' 6" longitude

TEST INTERVAL OR PERFS

1559.7-1565.6

RKB

SAMPLING POINT

BOTTOM HOLE SAMPLER

GAUGE PRESSURE kPa

TEMPERATURE °C

SEPARATOR

TREATER

RESERVOIR

SOURCE

SAMPLED

RECEIVED

8964

8964

7000

21

DATE SAMPLED (Y-M-D)

DATE RECEIVED (Y-M-D)

DATE REPORTED (Y-M-D)

ANALYST

OTHER INFORMATION

98-12-31

99-01-05

99-01-11

PL

NCO

BHS #NSN

| COMP             | MOLE FRACTION           |                           | PETROLEUM<br>LIQUID<br>CONTENT<br>mg. x m <sup>-3</sup> |
|------------------|-------------------------|---------------------------|---------------------------------------------------------|
|                  | AIR FREE<br>AS RECEIVED | AIR FREE<br>ACID GAS FREE |                                                         |
| H <sub>2</sub>   | TRACE                   | TRACE                     |                                                         |
| H <sub>4</sub>   | 0.0001                  | 0.0001                    |                                                         |
| N <sub>2</sub>   | 0.0032                  | 0.0033                    |                                                         |
| CO <sub>2</sub>  | 0.0174                  | 0.0000                    |                                                         |
| H <sub>2</sub> S | 0.0000                  | 0.0000                    |                                                         |
| C <sub>1</sub>   | 0.9515                  | 0.9684                    |                                                         |
| C <sub>2</sub>   | 0.0211                  | 0.0215                    |                                                         |
| C <sub>3</sub>   | 0.0040                  | 0.0040                    | 14.6                                                    |
| IC <sub>4</sub>  | 0.0012                  | 0.0012                    | 5.2                                                     |
| NC <sub>4</sub>  | 0.0005                  | 0.0005                    | 2.0                                                     |
| IC <sub>5</sub>  | 0.0003                  | 0.0003                    | 1.7                                                     |
| NC <sub>5</sub>  | 0.0001                  | 0.0001                    | 0.6                                                     |
| C <sub>8</sub>   | 0.0004                  | 0.0004                    | 2.0                                                     |
| C <sub>7</sub>   | 0.0002                  | 0.0002                    | 1.1                                                     |
| C <sub>6</sub>   | TRACE                   | TRACE                     | 0.2                                                     |
| C <sub>9</sub>   | 0.0000                  | 0.0000                    | 0.0                                                     |
| C <sub>10+</sub> | 0.0000                  | 0.0000                    | 0.0                                                     |
| TOTAL            | 1.0000                  | 1.0000                    | 27.4                                                    |

GROSS HEATING VALUE MJ/m<sup>3</sup>  
15° C AND 101.325 kPaMOISTURE AND  
ACID GAS FREE

38.78

AIR FREE  
AS RECEIVED

38.11

VAPOUR PRESSURE  
PENTANES PLUS

74.3

kPa

-----RELATIVE DENSITY-----

MOISTURE FREE AS SAMPLED

MOISTURE AND ACID GAS FREE

MEASURED

CALCULATED

MEASURED

CALCULATED

0.591

0.574

-----PSEUDO CRITICAL PROPERTIES (CALCULATED)-----

AS SAMPLED

ACID GAS FREE

dPc (kPa)

dPc

dPc (kPa)

dPc

4650 kPa

196.1 K

4601 kPa

194.2 K

-----RELATIVE MOLECULAR MASS-----

TOTAL GAS

C<sub>7+</sub>

17.1

101.8

H<sub>2</sub>S DM<sup>3</sup>

0.00

REMARKS