



| |
|---------------------------------|
| Container Identification |
| AGAT 19561 |

| |
|--------------------------|
| Laboratory Number |
| GE69349A |

| |
|--------------------------|
| Operator Name |
| PARAMOUNT RESOURCES LTD. |

| | | | |
|-------------------------------|----------------------------|------------------|--------|
| Unique Well Identifier | Well Name | Elevation | |
| NOT AVAILABLE | PARA et al MOUNT CODY I-02 | KB m | GRD m |
| | | 379.50 | 367.90 |

| | | |
|----------------------|---------------------|---------------------------|
| Field or Area | Pool or Zone | Sampler's Company |
| MOUNT CODY | FANTASQUE | SOLID PRODUCTION SERVICES |

| | | | |
|------------------|-----------------|----------------------|------------------------|
| Test Type | Test No. | Test Recovery | Name of Sampler |
| | | | |

| | | | | | | |
|-------------------------------|-----------------------|------------------|------------------|---------------|----------------|-----------------|
| Test Interval or Perfs | Sampling Point | Separator | Reservoir | Source | Sampled | Received |
| 897.00-917.00 | WELLHEAD | | | 800 | 800 | 1200 |
| mKB | | Pressure (kPa) | | | | |
| | | Temperature (°C) | | | | 21 |

| | | | |
|---------------------|----------------------|----------------------|----------------|
| Date Sampled | Date Received | Date Reported | Analyst |
| Mar 14, 2001 | Mar 20, 2001 | Apr 03, 2001 | LQ |

| |
|--------------------------|
| Other Information |
| |

| COMP | MOLE FRACTION | | PETROLEUM LIQUID mL · m ³ |
|--------------|----------------------|------------------------|---|
| | AIR FREE AS RECEIVED | AIR FREE ACID GAS FREE | |
| H2 | 0.0010 | 0.0011 | |
| He | TRACE | TRACE | |
| N2 | 0.0371 | 0.0396 | |
| CO2 | 0.0638 | 0.0000 | |
| H2S | 0.0000 | 0.0000 | |
| C1 | 0.7988 | 0.8532 | |
| C2 | 0.0374 | 0.0399 | |
| C3 | 0.0355 | 0.0379 | 130.4 |
| IC4 | 0.0045 | 0.0048 | 19.6 |
| NC4 | 0.0140 | 0.0150 | 58.9 |
| IC5 | 0.0027 | 0.0029 | 13.2 |
| NC5 | 0.0027 | 0.0029 | 13.1 |
| C6 | 0.0014 | 0.0015 | 7.7 |
| C7+ | 0.0011 | 0.0012 | 6.9 |
| Total | 1.0000 | 1.0000 | 249.8 |

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

| | |
|-----------------------------|-------------------------------------|
| Air Free As Received | Moisture & Acid Gas Free |
| 39.60 | 42.28 |

RELATIVE DENSITY (CALCULATED)

| | |
|----------------------|-------------------------------------|
| Moisture Free | Moisture & Acid Gas Free |
| 0.727 | 0.673 |

PSEUDO CRITICAL PROPERTIES (CALCULATED)

| As Sampled | | Acid Gas Free | |
|---------------|-------|---------------|-------|
| pPc (abs) kPa | pTc K | pPc (abs) kPa | pTc K |
| 4704 | 212.5 | 4522 | 206.3 |

RELATIVE MOLECULAR MASS

| | |
|------------------|------------|
| Total Gas | C7+ |
| 21.1 | 102.8 |

VAPOUR PRESSURE

| |
|-----------|
| 92.30 kPa |
|-----------|

H₂S g/m³

| |
|------|
| 0.00 |
|------|





| Container Identification AGAT 21246 | | Laboratory Number GE69349B | | | | | | | | | | | | | | | | | | | | | |
|---|--|---|---|-----------|-----------|--------|---------|----------|--|--|-----|-----|------|----------------|--|--|--|--|------------------|--|--|--|----|
| Operator Name PARAMOUNT RESOURCES LTD. | | | | | | | | | | | | | | | | | | | | | | | |
| Unique Well Identifier NOT AVAILABLE | Well Name PARA et al MOUNT CODY I-02 | | Elevation KB m 379.50 GRD m 367.90 | | | | | | | | | | | | | | | | | | | | |
| Field or Area MOUNT CODY | Pool or Zone FANTASQUE | Sampler's Company SOLID PRODUCTION SERVICES | | | | | | | | | | | | | | | | | | | | | |
| Test Type | Test No. | Test Recovery | Name of Sampler | | | | | | | | | | | | | | | | | | | | |
| Test Interval or Perfs 897.00-917.00 mKB | | Sampling Point WELLHEAD | <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>800</td> <td>800</td> <td>1100</td> </tr> <tr> <td colspan="2">Pressure (kPa)</td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2">Temperature (°C)</td> <td></td> <td></td> <td>21</td> </tr> </table> | Separator | Reservoir | Source | Sampled | Received | | | 800 | 800 | 1100 | Pressure (kPa) | | | | | Temperature (°C) | | | | 21 |
| Separator | Reservoir | Source | Sampled | Received | | | | | | | | | | | | | | | | | | | |
| | | 800 | 800 | 1100 | | | | | | | | | | | | | | | | | | | |
| Pressure (kPa) | | | | | | | | | | | | | | | | | | | | | | | |
| Temperature (°C) | | | | 21 | | | | | | | | | | | | | | | | | | | |
| Date Sampled Mar 14, 2001 | Date Received Mar 20, 2001 | Date Reported Apr 03, 2001 | Analyst LQ | | | | | | | | | | | | | | | | | | | | |
| Other Information | | | | | | | | | | | | | | | | | | | | | | | |

| COMP | MOLE FRACTION | | PETROLEUM LIQUID mL · m ³ |
|--------------|----------------------|-------------------------|---|
| | AIR FREE AS RECEIVED | AIR FREE: ACID GAS FREE | |
| H2 | 0.0008 | 0.0009 | |
| He | TRACE | TRACE | |
| N2 | 0.0475 | 0.0508 | |
| CO2 | 0.0644 | 0.0000 | |
| H2S | 0.0000 | 0.0000 | |
| C1 | 0.7941 | 0.8487 | |
| C2 | 0.0363 | 0.0388 | |
| C3 | 0.0321 | 0.0343 | 117.9 |
| IC4 | 0.0042 | 0.0045 | 18.3 |
| NC4 | 0.0137 | 0.0146 | 57.7 |
| IC5 | 0.0027 | 0.0029 | 13.2 |
| NC5 | 0.0027 | 0.0029 | 13.1 |
| C6 | 0.0009 | 0.0010 | 4.9 |
| C7+ | 0.0006 | 0.0006 | 3.7 |
| Total | 1.0000 | 1.0000 | 228.8 |

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

| Air Free As Received | Moisture & Acid Gas Free |
|----------------------|--------------------------|
| 38.75 | 41.39 |

RELATIVE DENSITY (CALCULATED)

| Moisture Free | Moisture & Acid Gas Free |
|---------------|--------------------------|
| 0.724 | 0.670 |

PSEUDO CRITICAL PROPERTIES (CALCULATED)

| As Sampled | | Acid Gas Free | |
|---------------|-------|---------------|-------|
| pPc (abs) kPa | pTc K | pPc (abs) kPa | pTc K |
| 4697 | 210.7 | 4512 | 204.3 |

RELATIVE MOLECULAR MASS

| Total Gas | C7+ |
|-----------|-------|
| 21.0 | 100.2 |

VAPOUR PRESSURE

102.61 kPa

H₂S g/m³

0.00

