



|                                 |                  |                           |                                                      |
|---------------------------------|------------------|---------------------------|------------------------------------------------------|
| <b>Container Identification</b> |                  | <b>Laboratory Number</b>  |                                                      |
| PB#5                            |                  | CE70314B                  |                                                      |
| <b>Operator Name</b>            |                  |                           |                                                      |
| PARAMOUNT RESOURCES LTD.        |                  |                           |                                                      |
| <b>Unique Well Identifier</b>   | <b>Well Name</b> |                           | <b>Elevation</b>                                     |
| Not Available                   | A-73 et al SWEDE |                           | KB m <input type="text"/> GRD m <input type="text"/> |
| <b>Field or Area</b>            |                  | <b>Sampler's Company</b>  |                                                      |
| SWEDE                           |                  | SOLID PRODUCTION SERVICES |                                                      |
| <b>Pool or Zone</b>             |                  | <b>Test Recovery</b>      |                                                      |
| Sulphur Point                   |                  |                           |                                                      |
| <b>Test Type</b>                | <b>Test No.</b>  | <b>Name of Sampler</b>    |                                                      |
|                                 |                  |                           |                                                      |
| <b>Test Interval or Perfs</b>   |                  | <b>Sampling Point</b>     |                                                      |
|                                 |                  | BOTTOM OF SIGHT GLASS     |                                                      |
|                                 |                  | <b>Pressure (kPa)</b>     | <b>Separator</b>                                     |
|                                 |                  | <b>Temperature (°C)</b>   | <b>Reservoir</b>                                     |
|                                 |                  |                           | <b>Source</b>                                        |
|                                 |                  |                           | <b>Sampled</b>                                       |
|                                 |                  |                           | <b>Received</b>                                      |
| <b>Date Sampled</b>             |                  | <b>Date Received</b>      |                                                      |
| Mar 11, 2001                    |                  | Mar 30, 2001              |                                                      |
| <b>Date Reported</b>            |                  | <b>Analyst</b>            |                                                      |
| Apr 12, 2001                    |                  | AY/BD                     |                                                      |
| <b>Other Information</b>        |                  |                           |                                                      |
|                                 |                  |                           |                                                      |

| COMP.        | MOLE FRACTION | MASS FRACTION | VOLUME FRACTION |
|--------------|---------------|---------------|-----------------|
| N2           | 0.0000        | 0.0000        | 0.0000          |
| CO2          | 0.0000        | 0.0000        | 0.0000          |
| H2S          | 0.0000        | 0.0000        | 0.0000          |
| C1           | 0.0000        | 0.0000        | 0.0000          |
| C2           | 0.0000        | 0.0000        | 0.0000          |
| C3           | 0.0000        | 0.0000        | 0.0000          |
| IC4          | 0.0000        | 0.0000        | 0.0000          |
| NC4          | 0.0000        | 0.0000        | 0.0000          |
| IC5          | 0.0137        | 0.0028        | 0.0039          |
| NC5          | 0.0137        | 0.0028        | 0.0039          |
| C6           | 0.0377        | 0.0086        | 0.0109          |
| C7+          | 0.9349        | 0.9858        | 0.9813          |
| <b>TOTAL</b> | <b>1.0000</b> | <b>1.0000</b> | <b>1.0000</b>   |

**Observed Properties of C7+ Residue (15/15° C)**

| Density                 | Relative Density | API @ 15° |
|-------------------------|------------------|-----------|
| 872.4 kg/m <sup>3</sup> | 0.8732           | 30.6      |

**Relative Molecular Mass**

368.0

**Calculated Properties of Total Sample (15/15° C)**

| Density                 | Relative Density | API @ 15° |
|-------------------------|------------------|-----------|
| 868.5 kg/m <sup>3</sup> | 0.8693           | 31.3      |

**Relative Molecular Mass**

349.1

Calculations for C6 and C7 are based on Boiling Point Grouping. If Carbon Number Grouping had been done, the mole fractions would be (C6: 0.0385) (C7+:0.9341)

Note: Sampling Point, Unique Well Identifier and/or Pool or Zone information was unavailable at time of reporting. This information is integral to AGAT's WinFLUID, a comparison, history and trending analysis system.





|                                           |                                                                |                                                |                  |
|-------------------------------------------|----------------------------------------------------------------|------------------------------------------------|------------------|
| Container Identification<br>PB#5          |                                                                | Laboratory Number<br>CE70314B                  |                  |
| Operator Name<br>PARAMOUNT RESOURCES LTD. |                                                                |                                                |                  |
| Unique Well Identifier<br>Not Available   | Well Name<br>A-73 et al SWEDE                                  | Elevation<br>KB m      GRD m                   |                  |
| Field or Area<br>SWEDE                    | Pool or Zone<br><del>SLAVE POINT</del><br><i>Sulphur Point</i> | Sampler's Company<br>SOLID PRODUCTION SERVICES |                  |
| Test Type                                 | Test No.                                                       | Name of Sampler                                |                  |
| Test Interval or Perfs                    |                                                                | Sampling Point<br>BOTTOM OF SIGHT GLASS        |                  |
|                                           |                                                                | Pressure (kPa)                                 |                  |
|                                           |                                                                | Temperature (°C)                               |                  |
|                                           |                                                                | Separator                                      | Reservoir        |
|                                           |                                                                | Source                                         | Sampled          |
|                                           |                                                                | Received                                       |                  |
| Date Sampled<br>Mar 11, 2001              | Date Received<br>Mar 30, 2001                                  | Date Reported<br>Apr 12, 2001                  | Analyst<br>AY/BD |
| Other Information                         |                                                                |                                                |                  |

| COMP. | MOLE FRACTION | MASS FRACTION | VOLUME FRACTION |
|-------|---------------|---------------|-----------------|
| N2    | 0.0000        | 0.0000        | 0.0000          |
| CO2   | 0.0000        | 0.0000        | 0.0000          |
| H2S   | 0.0000        | 0.0000        | 0.0000          |
| C1    | 0.0000        | 0.0000        | 0.0000          |
| C2    | 0.0000        | 0.0000        | 0.0000          |
| C3    | 0.0000        | 0.0000        | 0.0000          |
| IC4   | 0.0000        | 0.0000        | 0.0000          |
| NC4   | 0.0000        | 0.0000        | 0.0000          |
| IC5   | 0.0137        | 0.0028        | 0.0039          |
| NC5   | 0.0137        | 0.0028        | 0.0039          |
| C6    | 0.0377        | 0.0086        | 0.0109          |
| C7+   | 0.9349        | 0.9858        | 0.9813          |
| TOTAL | 1.0000        | 1.0000        | 1.0000          |

### Observed Properties of C7+ Residue (15/15° C)

| Density                 | Relative Density | API @ 15° |
|-------------------------|------------------|-----------|
| 872.4 kg/m <sup>3</sup> | 0.8732           | 30.6      |

#### Relative Molecular Mass

|       |
|-------|
| 368.0 |
|-------|

### Calculated Properties of Total Sample (15/15° C)

| Density                 | Relative Density | API @ 15° |
|-------------------------|------------------|-----------|
| 868.5 kg/m <sup>3</sup> | 0.8693           | 31.3      |

#### Relative Molecular Mass

|       |
|-------|
| 349.1 |
|-------|

Calculations for C6 and C7 are based on Boiling Point Grouping. If Carbon Number Grouping had been done, the mole fractions would be (C6: 0.0385) (C7+:0.9341)

Note: Sampling Point, Unique Well Identifier and/or Pool or Zone information was unavailable at time of reporting. This information is integral to AGAT's WinFLUID, a comparison, history and trending analysis system.

