



9211-P33-5-2 RE  
**AGAT** Laboratories



**OTTAWA COPY**

CALGARY

EDMONTON

GRANDE PRAIRIE

**OIL ANALYSIS**

CONTAINER IDENTIFICATION

PE #4

OPERATOR NAME

PARAMOUNT RESOURCES LTD.

\*\*\*\*\*

UNIQUE WELL IDENTIFIER

WELL NAME

KB m ELEVATIONS GRD m

PARAMOUNT et al CAMERON M-73

775.15

771.45

FIELD OR AREA

POOL OR ZONE

NAME OF SAMPLER

COMPANY

CAMERON

SULPHUR POINT

NORTHLAND

TEST TYPE

NO

TEST RECOVERY

SAMPLING POINT

AMT & TYPE OF CUSHION

MUD RESISTIVITY/  $\Omega$  m

SEPARATOR

@ 25° C

TEST INTERVAL OR PERFS

1415.5-1420.5

mKB

SEPARATOR

TREATER

RESERVOIR

SOURCE

SAMPLED

RECEIVED

GAUGE PRESSURE kPa

TEMPERATURE ° C

DATE SAMPLED (Y-M-D)

DATE RECEIVED (Y-M-D)

DATE REPORTED (Y-M-D)

ANALYST

OTHER INFORMATION

91-03-27

91-04-15

91-04-19

B.C.L

60 10°N 117 15°W

**SAMPLE PROPERTIES**

B.S. & W. (VOLUME FRACTION)

COLOUR OF CLEAN OIL

WATER

SEDIMENT

TOTAL

DARK BROWN

0.008

TRACE

0.008

COLOUR NUMBER ASTM D-155

D8 A.S.T.M.

RELATIVE

DENSITY

ABSOLUTE  $\rho/\text{kg}\cdot\text{m}^{-3}$

AS RECEIVED

AFTER CLEANING

AS RECEIVED

AFTER CLEANING

0.8606

859.8

API GRAVITY @ 15° C

32.93

TOTAL SULPHUR  
(MASS FRACTION)

0.00832

TOTAL SALT  $\text{g}\cdot\text{m}^{-3}$

U.S.B.M.

A.S.T.M.

9

POUR POINT / ° C

CARBON RESIDUE  
(MASS FRACTION)

RVP/kPa

CONRADSON

RAMSBOTTOM

| VISCOSITY |                                    |                                           |
|-----------|------------------------------------|-------------------------------------------|
| TEMP / °C | ABSOLUTE $\text{mPa}\cdot\text{s}$ | KINEMATIC $\text{mm}^2\cdot\text{s}^{-1}$ |
| 25        | 8.32                               | 9.75                                      |
| 38        | 5.57                               | 6.59                                      |
| 50        | 4.19                               | 5.00                                      |
|           |                                    |                                           |

| VOLUME FRACTION | TEMP. / °C |
|-----------------|------------|
| 0.05            | 181.9      |
| 0.10            | 227.4      |
| 0.15            | 248.6      |
| 0.20            | 271.9      |
| 0.25            | 289.1      |
| 0.30            | 304.2      |
| 0.35            | 318.4      |
| 0.40            | 333.6      |
| 0.45            | 348.7      |
| 0.50            | 362.9      |
| 0.55            | 377.0      |
| 0.60            | 388.1      |
| 0.65            | 398.3      |
| 0.70            | 405.3      |
| 0.75            | 407.3      |
| 0.80            |            |
| 0.85            |            |
| 0.90            |            |
| 0.95            |            |
| 1.00            |            |
| F.B.P           | 407.3      |
| CRACKED         |            |

**DISTILLATION**

METHOD

A.S.T.M. -D86\*

INITIAL BOILING POINT

131.4

ABS BAROM PRESS/kPa

89.2

ROOM TEMP./°C

24.0

**DISTILLATION SUMMARY**

(VOLUME FRACTION)

200° C NAPHTHA

0.07

275° C KEROSENE

0.21

350° C LIGHT GAS OIL

0.46

RECOVERED

0.80

RESIDUE

0.18

DISTILLATION LOSS

0.02

CHARACTERIZATION FACTOR

11.9

REMARKS:

\* THE DISTILLATION TEMPERATURES HAVE BEEN CORRECTED TO 101.3 KPA(ABS).