

**MICROFILMED  
SUR MICROFILM:**

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

9211-E9-1-3 RE  
alt



WATER ANALYSIS

LABORATORY NUMBER  
686-1069-3

LICENCE NUMBER

OPERATOR NAME

PARAMOUNT RESOURCES LTD.

LOCATION

WELL NAME

L-80 (NWT)

PARAMOUNT CAMERON HILLS L-80

ELEVATIONS  
K.B. (metres) GRD  
816.25 811.95

FIELD OR AREA

POOL OR ZONE

CAMERON HILLS

SULPHUR POINT-SLAVE POINT

COMPANY  
BAKER PRODUCTION  
TECHNOLOGY

TEST TYPE

NO.

TEST RECOVERY

DST

2&3

133 M

MULTIPLE  
RECOVERY

Y N

X

SAMPLING POINT

AMT. & TYPE OF CUSHION

MUD RESISTIVITY

BOTTOM

TYPE OF PRODUCTION

PUMPING

FLOWING

GAS LIFT

SWAB

PRODUCTION RATES

WATER

m<sup>3</sup>/d

OIL

m<sup>3</sup>/d

GAS

10<sup>3</sup> m<sup>3</sup>/d

SEPARATOR

TREATER

RESERVOIR

SOURCE

GAUGE PRESSURE

kPa

SEPARATOR

TREATER

RESERVOIR

SOURCE

TEMPERATURE

°C

DATE SAMPLED (Y-M-D)

DATE RECEIVED (Y-M-D)

DATE REPORTED (Y-M-D)

ANALYST

OTHER INFORMATION

86/03/05

86/03/24

86/03/27

K.M.

| ION | $\frac{m \cdot V^{-1}}{g \cdot m^{-3}}$ | Mass Fraction | $\frac{c}{mol \cdot m^{-3}}$ | ION              | $\frac{m \cdot V^{-1}}{g \cdot m^{-3}}$ | Mass Fraction | $\frac{c}{mol \cdot m^{-3}}$ |
|-----|-----------------------------------------|---------------|------------------------------|------------------|-----------------------------------------|---------------|------------------------------|
| Na  | 9 778                                   | 0.3204        | 425.34                       | Cl               | 17 000                                  | 0.5570        | 479.40                       |
| K   | 113                                     | 0.0037        | 2.89                         | Br               |                                         |               |                              |
| Ca  | 929                                     | 0.0304        | 23.18                        | I                |                                         |               |                              |
| Mg  | 683                                     | 0.0224        | 28.07                        | HCO <sub>3</sub> | 859                                     | 0.0281        | 14.09                        |
| Ba  |                                         |               |                              | SO <sub>4</sub>  | 1 160                                   | 0.0380        | 12.07                        |
| Sr  |                                         |               |                              | CO <sub>3</sub>  | 0                                       | 0.0000        | 0.00                         |
| Fe  | NIL                                     |               |                              | OH               | 0                                       | 0.0000        | 0.00                         |
|     |                                         |               |                              | H <sub>2</sub> S | PRESENT                                 |               |                              |

TOTAL SOLIDS  $\frac{m \cdot V^{-1}}{g \cdot m^{-3}}$

EVAPORATED @ 110°C

EVAPORATED @ 180°C

33 790

AT IGNITION

CALCULATED

28 950

30 522

ORGANICS: PRESENT

RELATIVE DENSITY

REFRACTIVE INDEX

1.022 @ 25°C

1.3383 @ 25°C

OBSERVED pH

RESISTIVITY (Ohm m)

7.7 @ 22°C

0.228 @ 25°C

REMARKS

The analysis was determined on salty water extracted from slightly oil stained watery mud.

LOGARITHMIC PATTERN  $c / mol \cdot m^{-3}$



Na

Cl

1/2 Ca

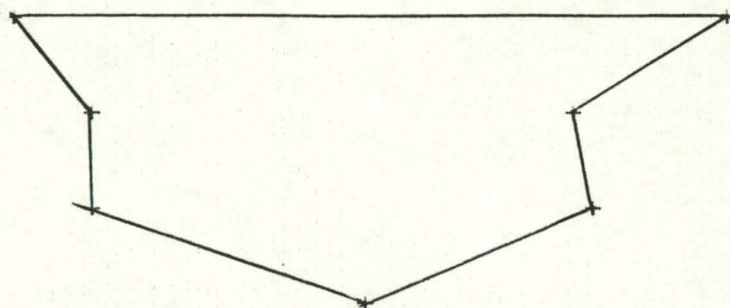
HCO<sub>3</sub>

1/2 Mg

1/2 SO<sub>4</sub>

1/2 Fe

1/2 CO<sub>3</sub>





## CHEMICAL &amp; GEOLOGICAL LABORATORIES LTD.



|                                       |  |                              |  |
|---------------------------------------|--|------------------------------|--|
| CONTAINER IDENTITY                    |  | LABORATORY NUMBER            |  |
|                                       |  | G86-1069                     |  |
| LICENCE NUMBER                        |  | OPERATOR NAME                |  |
|                                       |  | PARAMOUNT RESOURCES LTD.     |  |
| LOCATION                              |  | WELL NAME                    |  |
| L-80 (NWT)                            |  | PARAMOUNT CAMERON HILLS L-80 |  |
| FIELD OR AREA                         |  | POOL OR ZONE                 |  |
| CAMERON HILLS                         |  | SLAVE POINT-SLAVE POINT      |  |
| TEST TYPE                             |  | TEST RECOVERY                |  |
| DST                                   |  | 133 M                        |  |
| NO.                                   |  |                              |  |
| 2&3                                   |  |                              |  |
| MULTIPLE RECOVERY                     |  |                              |  |
| Y N                                   |  |                              |  |
| X                                     |  |                              |  |
| SAMPLING POINT                        |  | AMT. & TYPE OF CUSHION       |  |
| SEE BELOW                             |  |                              |  |
| TYPE OF PRODUCTION                    |  | MUD RESISTIVITY              |  |
| PUMPING                               |  | @ 25°C                       |  |
| FLOWING                               |  |                              |  |
| GAS LIFT                              |  |                              |  |
| SWAB                                  |  |                              |  |
| PRODUCTION RATES                      |  |                              |  |
| WATER m <sup>3</sup> /d               |  | OIL m <sup>3</sup> /d        |  |
| GAS 10 <sup>3</sup> m <sup>3</sup> /d |  |                              |  |
| SEPARATOR                             |  | TREATER                      |  |
| RESERVOIR                             |  | SOURCE                       |  |
| GAUGE PRESSURE kPa                    |  |                              |  |
| SEPARATOR                             |  | TREATER                      |  |
| RESERVOIR                             |  | SOURCE                       |  |
| TEMPERATURE °C                        |  |                              |  |
| DATE SAMPLED (Y-M-D)                  |  | DATE RECEIVED (Y-M-D)        |  |
| 86/03/05                              |  | 86/03/24                     |  |
| DATE REPORTED (Y-M-D)                 |  | ANALYST                      |  |
| 86/03/27                              |  | K.M.                         |  |
| OTHER INFORMATION                     |  |                              |  |

G86-1069-1: Sampled from Top  
RESISTIVITY: 1.36 Ohm metres @ 25°C  
Watery mud.

G86-1069-2: Sampled from Middle  
RESISTIVITY: 0.400 Ohm metres @ 25°C  
Watery mud.

12-22010-100-000-1-000

CANADA OIL AND GAS LANDS  
ADMINISTRATION  
ADMINISTRAT ON DU PÉTROLE ET DU  
GAZ DES TERRES DU CANADA

APR 10 1986

ENGINEERING AND CONTROL  
BRANCH  
TECHNIQUE ET DU CONTROLE